

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031819\
 Data File : VX008167.D
 Acq On : 18 Mar 2019 15:40
 Operator : JC/SP
 Sample : K1825-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PT-VOA-WP

Quant Time: Mar 19 02:40:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 18 14:34:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	68936	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	389630	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	344637	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	171981	29.99	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.97%
60) 4-Bromofluorobenzene	11.13	95	172591	30.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.03%
63) Toluene-d8	8.71	98	502390	30.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.00%

Target Compounds

					Ovalue
3) Chloromethane	1.33	50	218838	56.204	ug/l 98
5) Bromomethane	1.65	94	796	0.287	ug/l 81
6) Chloroethane	1.73	64	128816	51.323	ug/l 97
7) Trichlorofluoromethane	1.93	101	500179	98.941	ug/l 97
15) Acetone	2.44	58	107498	142.215	ug/l 89
18) Methylene Chloride	2.86	84	400613	106.138	ug/l 87
19) trans-1,2-Dichloroethene	3.17	96	1364	0.392	ug/l # 84
22) cis-1,2-Dichloroethene	4.60	96	457417	115.298	ug/l 94
24) Methyl tert-Butyl Ether	3.20	73	985828	83.893	ug/l 97
25) Chloroform	5.21	83	88568	13.268	ug/l 98
30) 2-Butanone	4.67	43	394901	108.636	ug/l 93
33) Carbon Tetrachloride	5.78	117	234485	50.869	ug/l 96
34) Benzene	6.14	78	288390	18.598	ug/l 98
36) 1,2-Dichloroethane	6.19	62	666966	118.504	ug/l 96
37) Trichloroethene	7.21	130	110359	29.866	ug/l 84
40) Dibromomethane	7.66	93	66897	25.873	ug/l 90
41) Bromodichloromethane	7.90	83	104438	20.889	ug/l 99
45) 1,4-Dioxane	7.75	88	50	0.535	ug/l # 1
48) t-1,3-Dichloropropene	9.04	75	91577	16.572	ug/l 99
49) cis-1,3-Dichloropropene	8.43	75	386826	62.921	ug/l 94
50) 1,1,2-Trichloroethane	9.21	97	369573	99.555	ug/l 97
53) Dibromochloromethane	9.58	129	72203	20.115	ug/l 99
54) 1,2-Dibromoethane	9.67	107	340382	87.854	ug/l 97
56) Bromoform	10.85	173	85388	33.064	ug/l # 98
58) 4-Methyl-2-Pentanone	8.64	43	1200772	182.177	ug/l 96
59) 2-Hexanone	9.49	43	513105	98.667	ug/l 97
61) Tetrachloroethene	9.34	164	69604	20.054	ug/l 96
62) Toluene	8.78	91	552895	33.922	ug/l 98
64) Chlorobenzene	10.14	112	756501	77.986	ug/l 100
65) 1,1,1,2-Tetrachloroethane	10.22	131	297486	87.458	ug/l 98
66) Ethyl Benzene	10.25	91	875876	50.313	ug/l 95
67) m/p-Xylenes	10.36	106	489138	76.058	ug/l 90
68) o-Xylene	10.69	106	768275	124.318	ug/l 91
71) 1,1,2,2-Tetrachloroethane	11.27	83	559400	95.838	ug/l 97
72) 1,2,3-Trichloropropane	11.29	75	109535	21.761	ug/l 89
83) 1,3-Dichlorobenzene	12.02	146	617915	87.410	ug/l 95
84) 1,4-Dichlorobenzene	12.02	146	617915	88.072	ug/l 95

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 QLast Update : Mon Mar 18 14:34:46 2019
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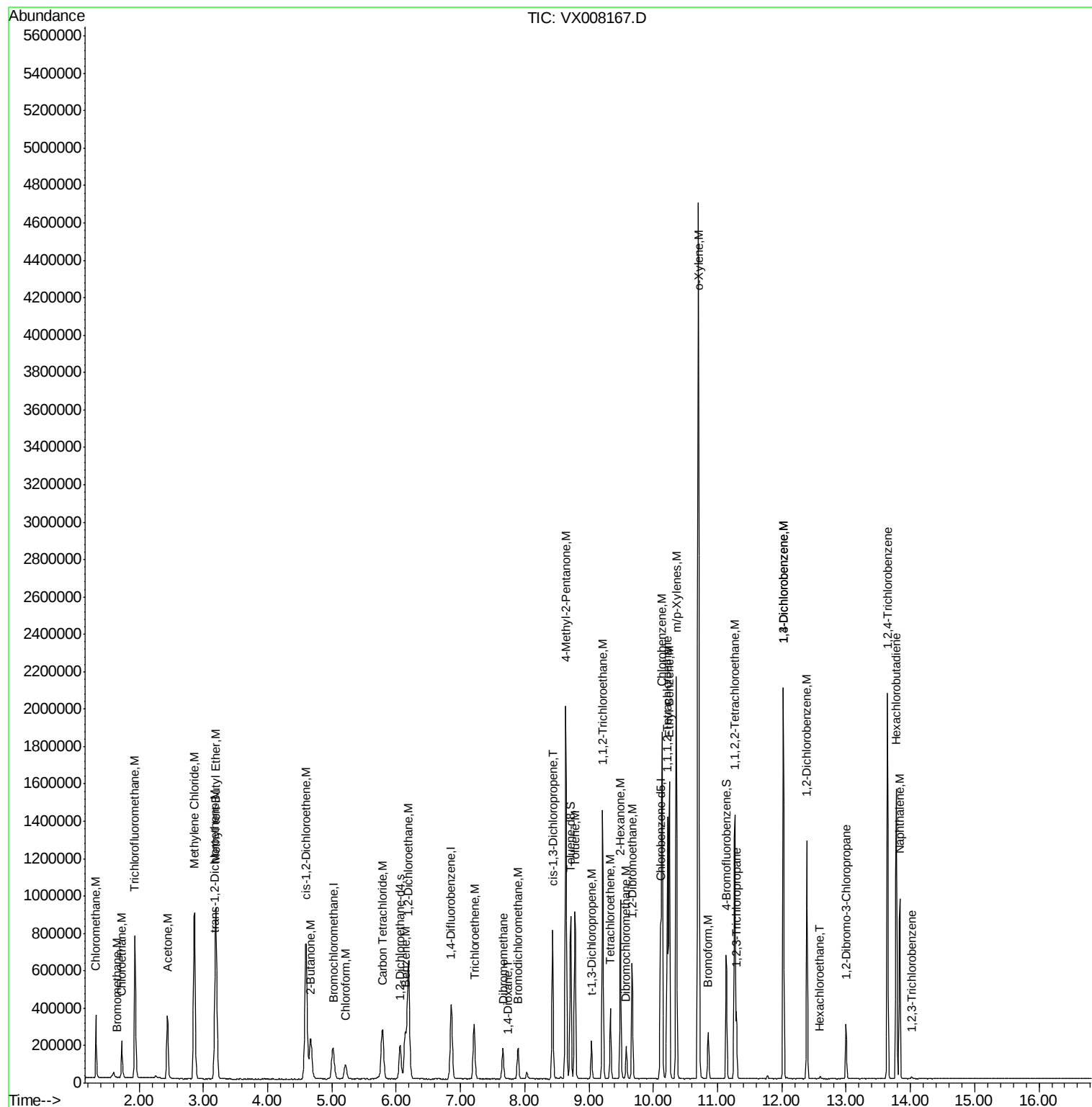
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Hexachloroethane	12.59	117	1968	0.818	ug/l	94
87) 1,2-Dichlorobenzene	12.39	146	374997	53.237	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	56044	43.358	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.65	180	459966	100.245	ug/l	99
90) Hexachlorobutadiene	13.78	225	217874	91.500	ug/l	98
91) Naphthalene	13.83	128	561159	37.759	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	1882	0.411	ug/l	91

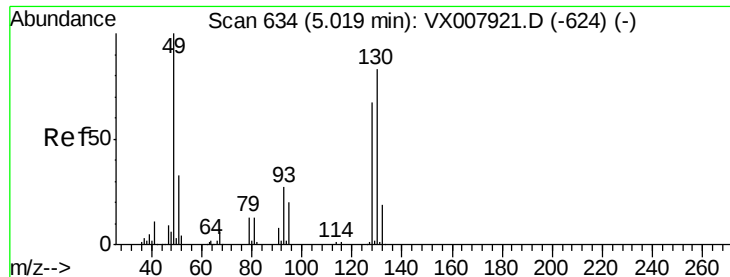
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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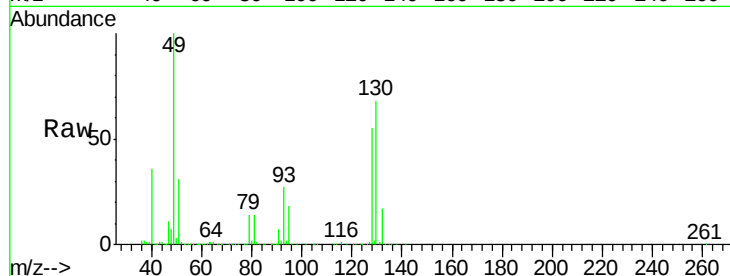




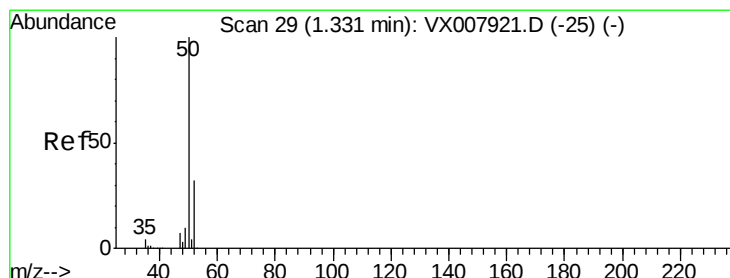
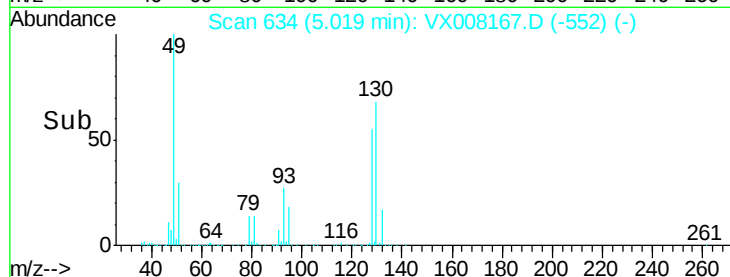
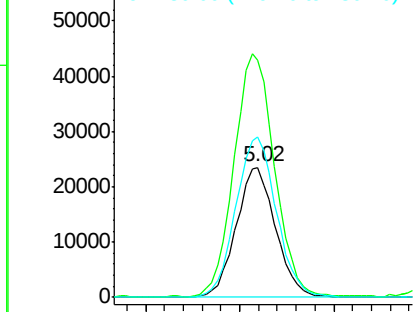
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.02 min Scan# 634
Delta R.T. -0.00 min
Lab File: VX008167.D
Acq: 18 Mar 2019 15:40

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tot Ion:128 Resp: 68936
Ion Ratio Lower Upper
128 100
49 191.3 0.0 350.8
130 127.3 0.0 325.8

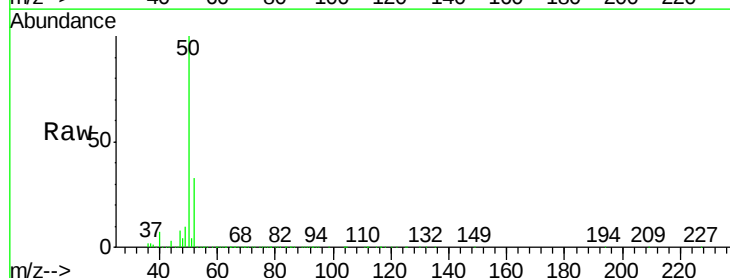


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VX0
Ion 130.00 (129.70 to 130.70): V

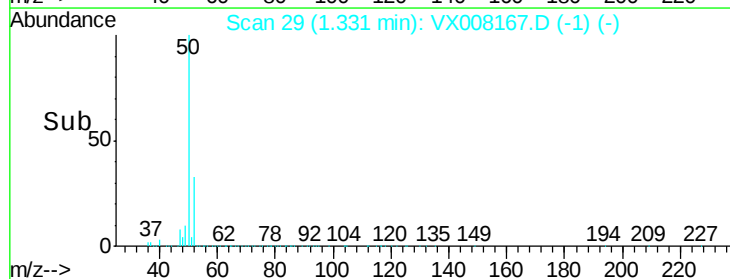
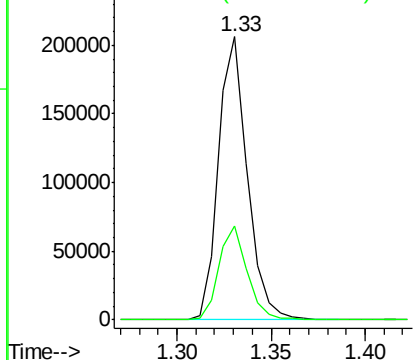


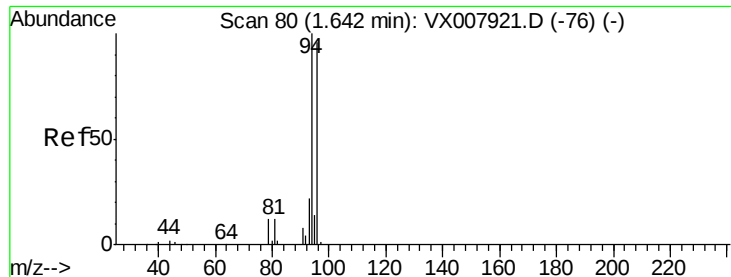
#3
Chloromethane
Concen: 56.204 ug/l
RT: 1.33 min Scan# 29
Delta R.T. -0.00 min
Lab File: VX008167.D
Acq: 18 Mar 2019 15:40

Tgt Ion: 50 Resp: 218838
Ion Ratio Lower Upper
50 100
52 33.0 27.5 41.3



Abundance Ion 50.00 (49.70 to 50.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#5

Bromomethane

Concen: 0.287 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

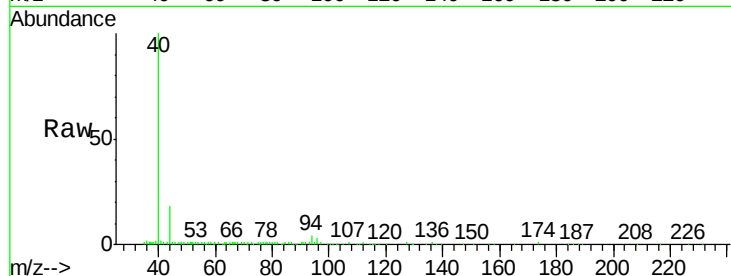
PT-VOA-WP

Tot Ion: 94 Resp: 796

Ion Ratio Lower Upper

94 100

96 76.0 75.6 113.4



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

1.65

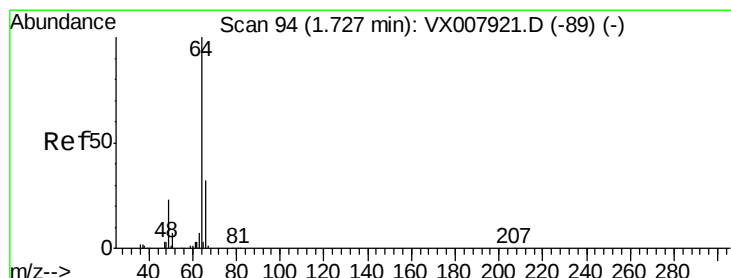
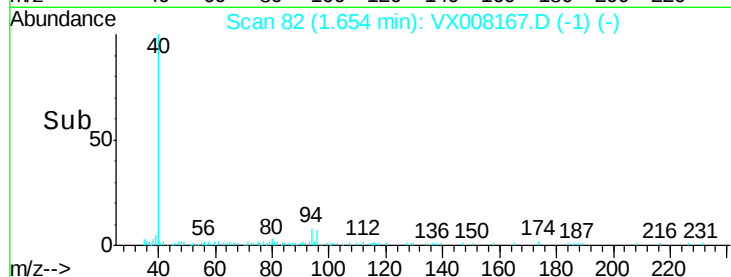
600

400

200

0

Time-->



#6

Chloroethane

Concen: 51.323 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.01 min

Lab File: VX008167.D

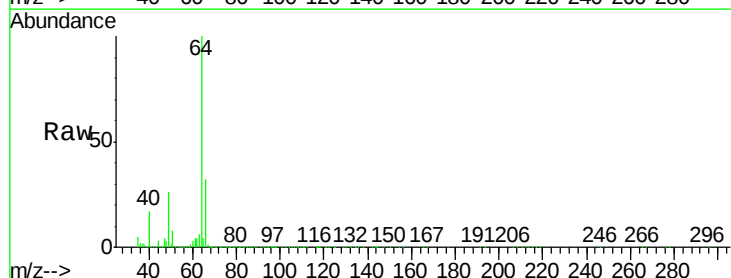
Acq: 18 Mar 2019 15:40

Tgt Ion: 64 Resp: 128816

Ion Ratio Lower Upper

64 100

66 31.7 23.9 35.9



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0

1.73

100000

80000

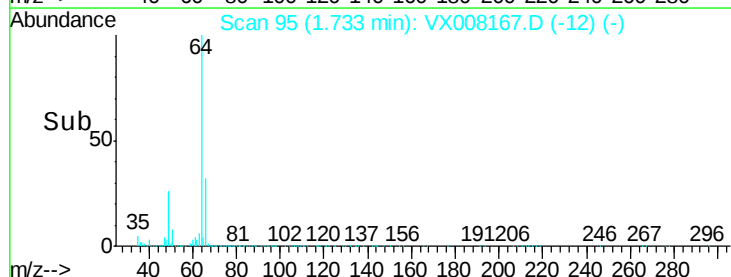
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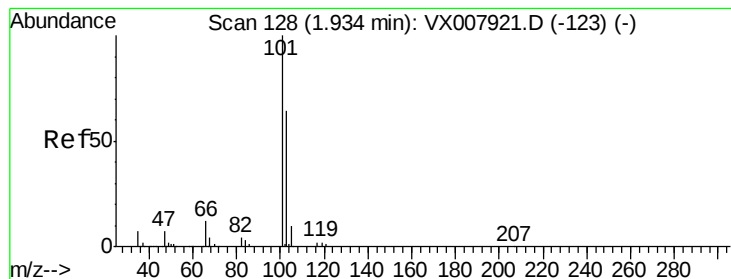
40000

20000

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Time-->



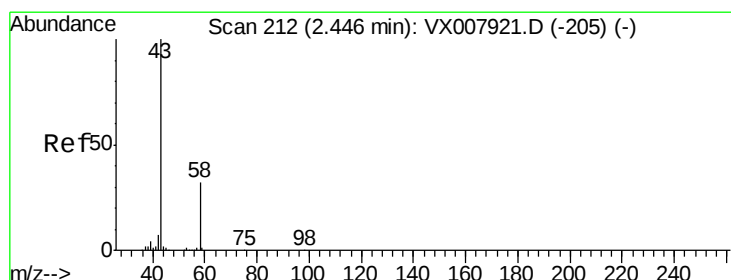
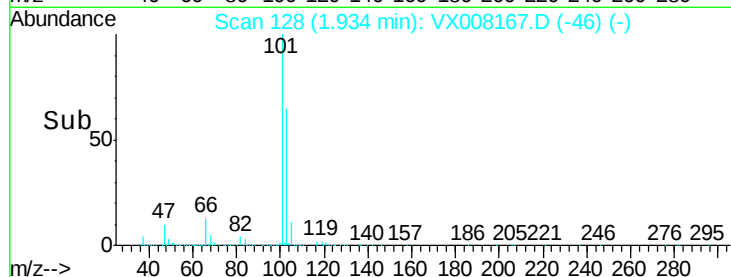
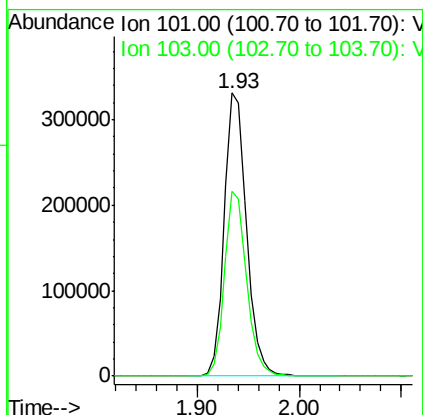
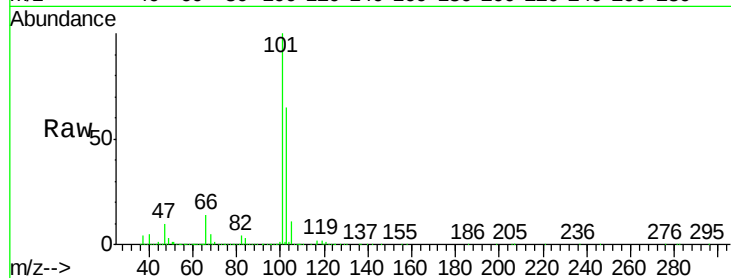


#7

Trichlorofluoromethane
 Concen: 98.941 ug/l
 RT: 1.93 min Scan# 128
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

Instrument :
 MSVOA_X
 ClientSampleId :
 PT-VOA-WP

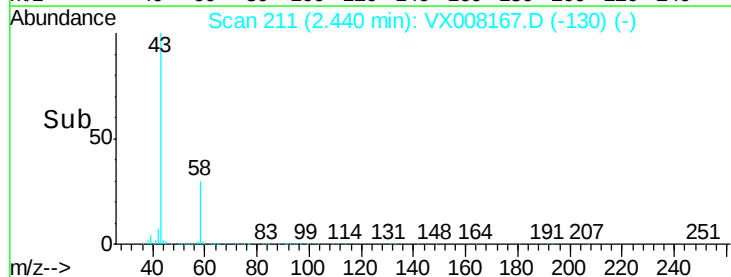
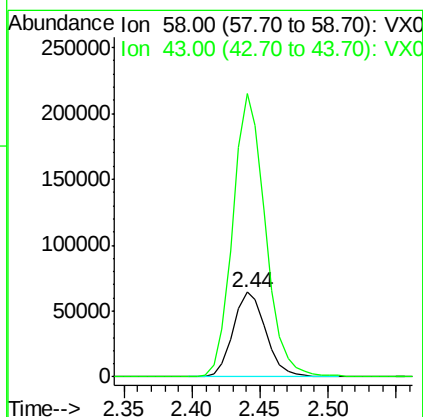
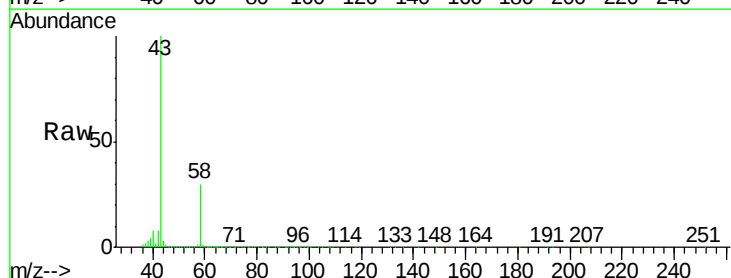
Tot Ion:101 Resp: 500179
 Ion Ratio Lower Upper
 101 100
 103 65.1 50.4 75.6

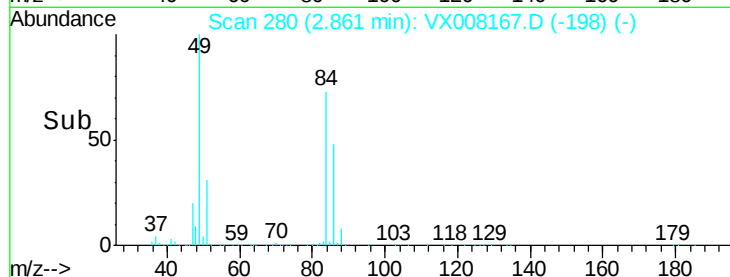
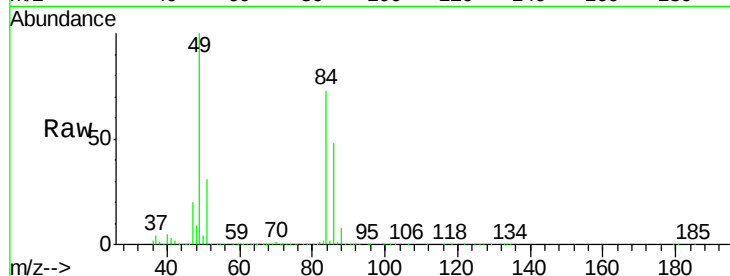
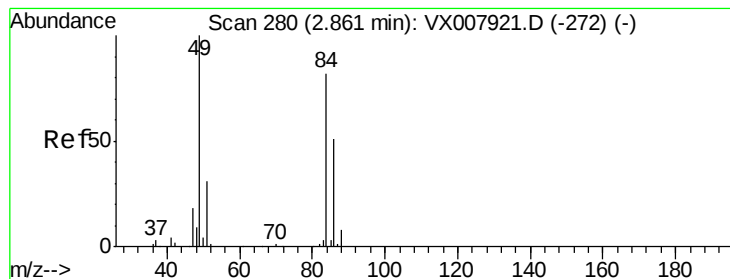


#15

Acetone
 Concen: 142.215 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

Tgt Ion: 58 Resp: 107498
 Ion Ratio Lower Upper
 58 100
 43 333.7 249.8 374.6





#18

Methylene Chloride

Concen: 106.138 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

PT-VOA-WP

Tot Ion: 84 Resp: 400613

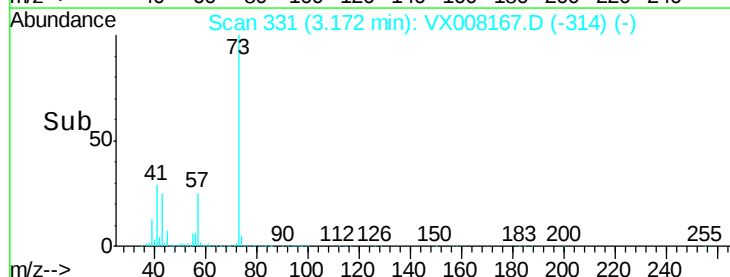
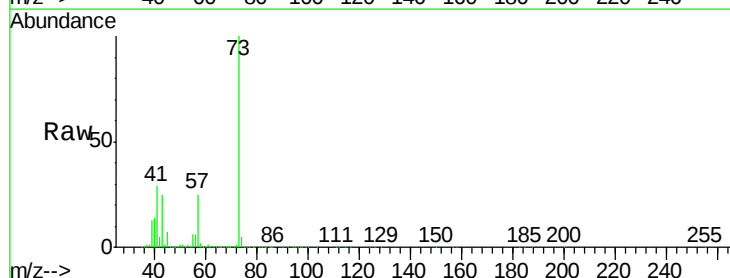
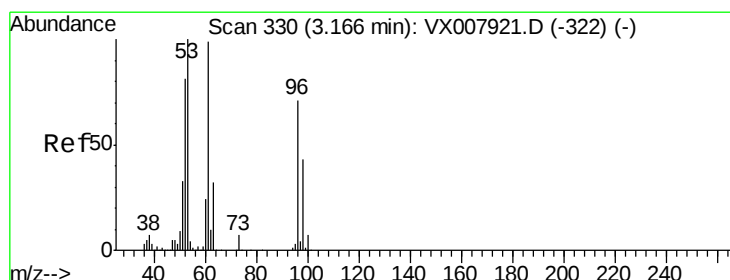
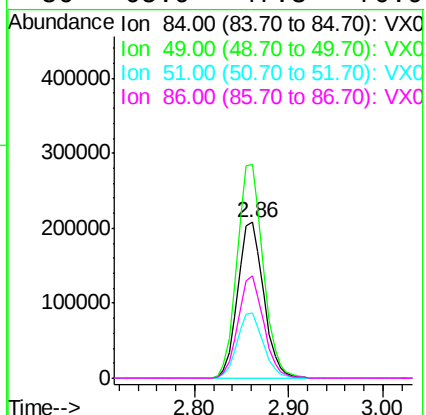
Ion Ratio Lower Upper

84 100

49 137.0 96.1 144.1

51 41.9 29.1 43.7

86 65.9 47.3 70.9



#19

trans-1,2-Dichloroethene

Concen: 0.392 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

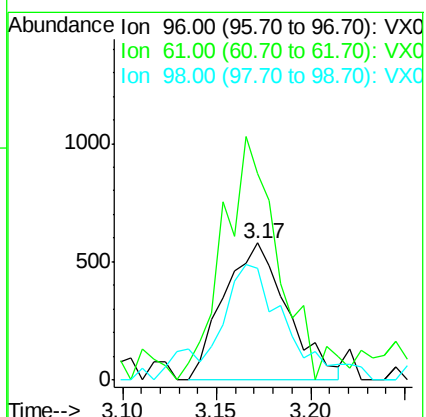
Tgt Ion: 96 Resp: 1364

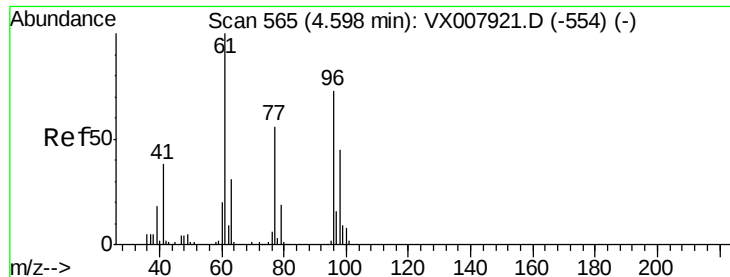
Ion Ratio Lower Upper

96 100

61 153.4 109.9 164.9

98 78.7 50.4 75.6#



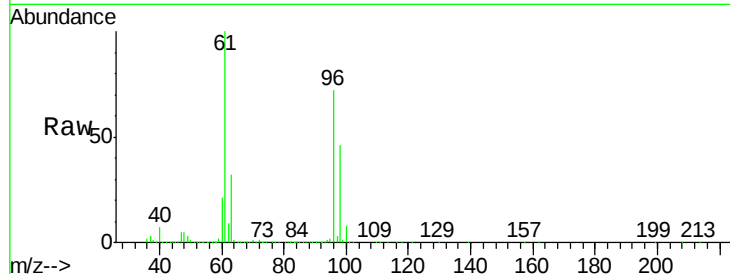


#22

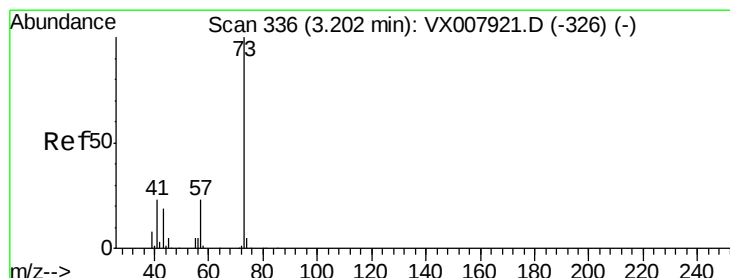
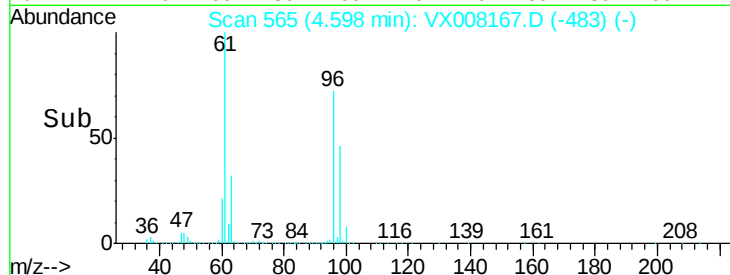
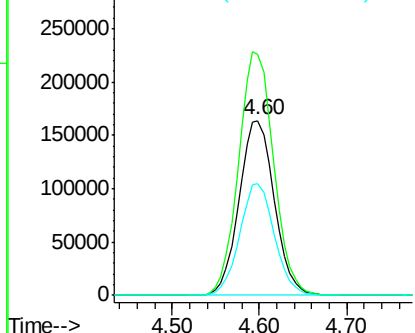
cis-1,2-Dichloroethene
 Concen: 115.298 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

Instrument :
 MSVOA_X
 ClientSampleId :
 PT-VOA-WP

Tot Ion: 96 Resp: 457417
 Ion Ratio Lower Upper
 96 100
 61 139.3 103.5 155.3
 98 63.4 52.1 78.1



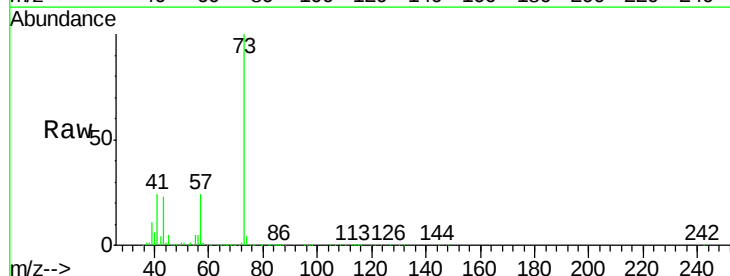
Abundance Ion 96.00 (95.70 to 96.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 98.00 (97.70 to 98.70): VX0



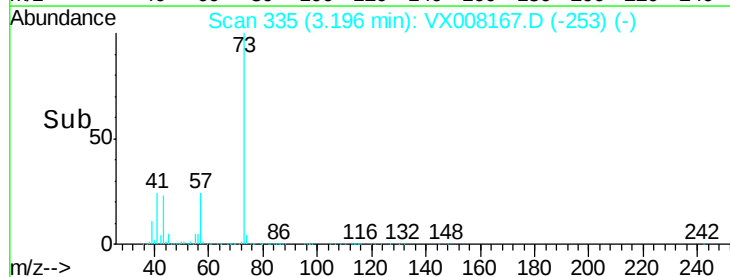
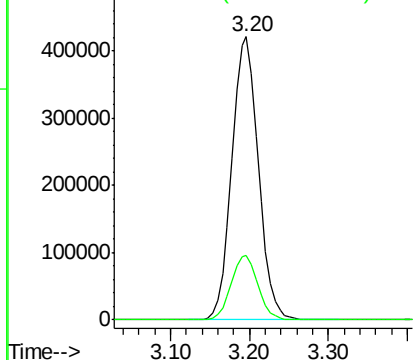
#24

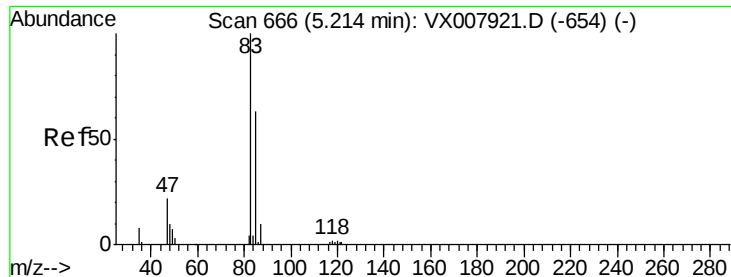
Methyl tert-Butyl Ether
 Concen: 83.893 ug/l
 RT: 3.20 min Scan# 335
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

Tgt Ion: 73 Resp: 985828
 Ion Ratio Lower Upper
 73 100
 43 22.8 17.1 25.7



Abundance Ion 73.00 (72.70 to 73.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0





#25

Chloroform

Concen: 13.268 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

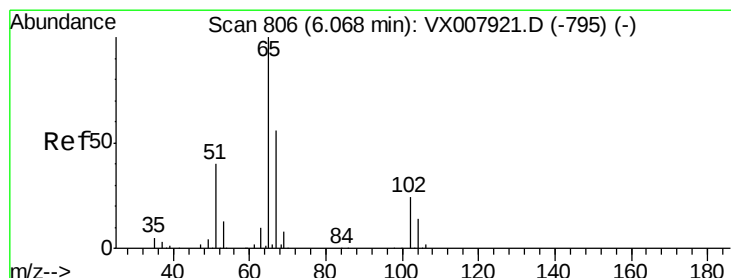
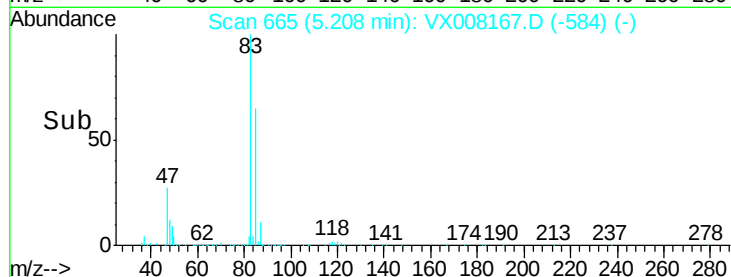
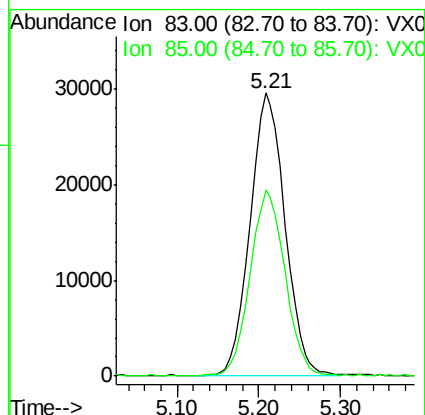
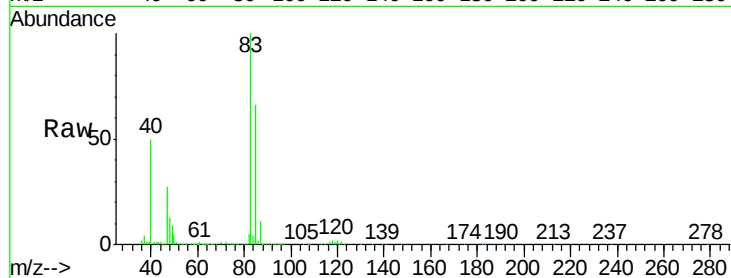
PT-VOA-WP

Tot Ion: 83 Resp: 88568

Ion Ratio Lower Upper

83 100

85 65.4 53.8 80.6



#27

1,2-Dichloroethane-d4

Concen: 29.992 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008167.D

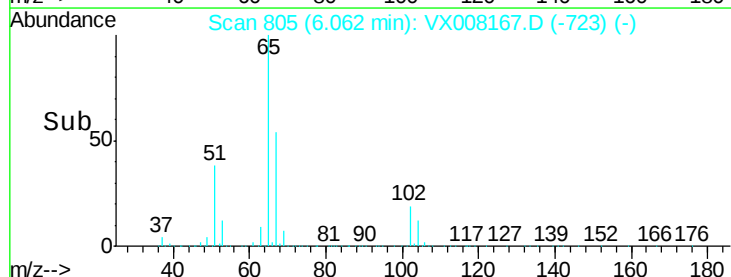
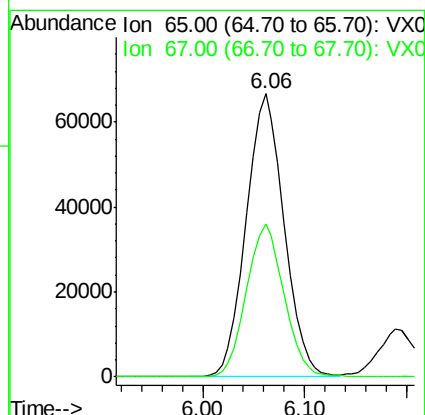
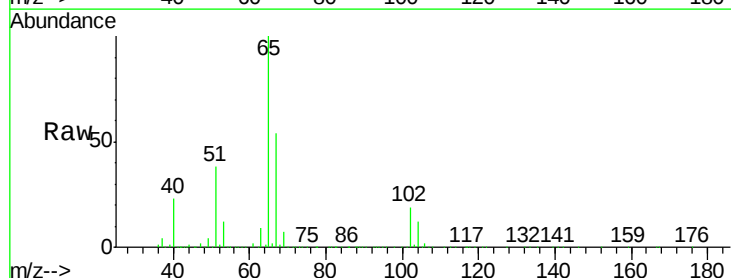
Acq: 18 Mar 2019 15:40

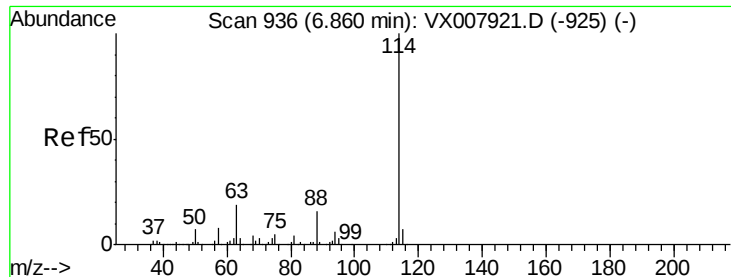
Tgt Ion: 65 Resp: 171981

Ion Ratio Lower Upper

65 100

67 53.5 42.9 64.3

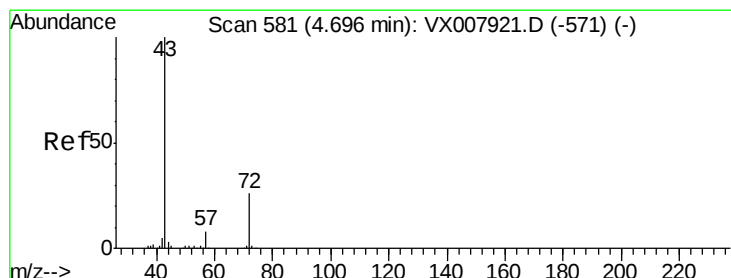
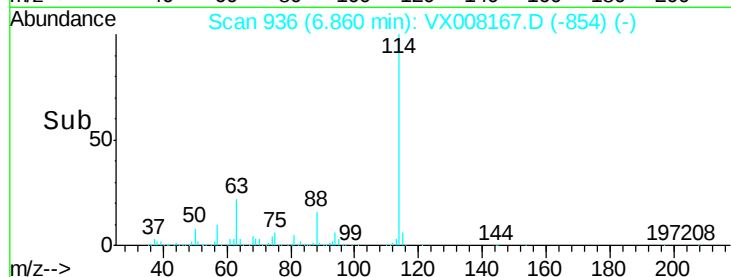
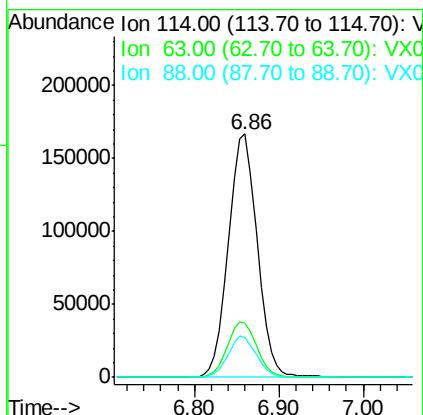
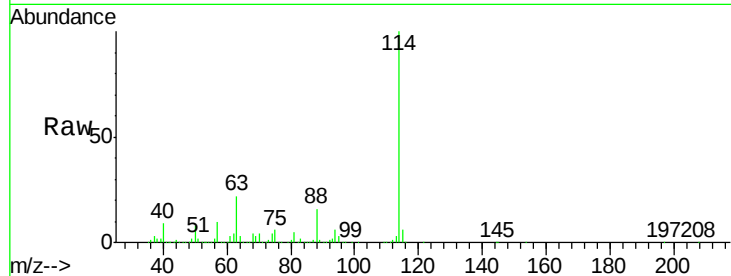




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

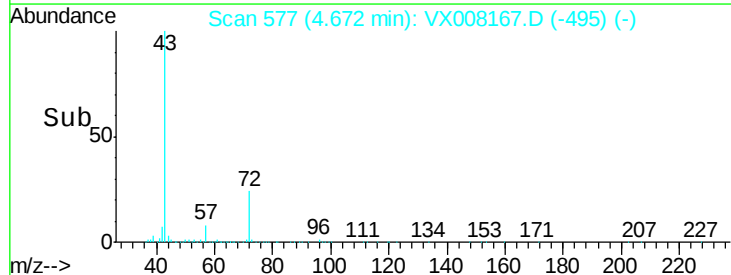
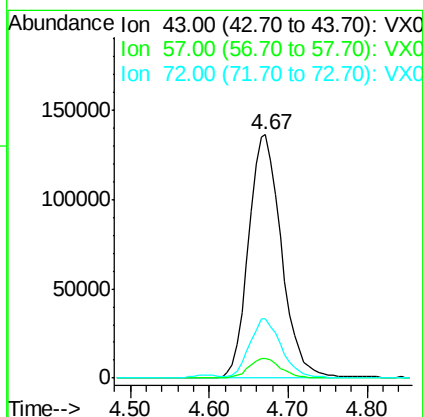
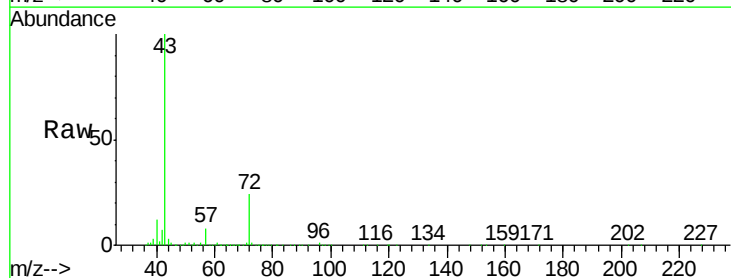
Instrument :
 MSVOA_X
 ClientSampleId :
 PT-VOA-WP

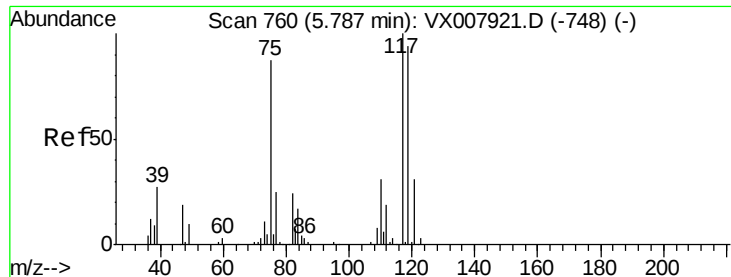
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	14.2	21.4#
88	16.7	11.9	17.9



#30
 2-Butanone
 Concen: 108.636 ug/l
 RT: 4.67 min Scan# 577
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.7	7.0	10.6
72	22.3	21.5	32.3





#33

Carbon Tetrachloride

Concen: 50.869 ug/l

RT: 5.78 min Scan# 759

Delta R.T. -0.01 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

PT-VOA-WP

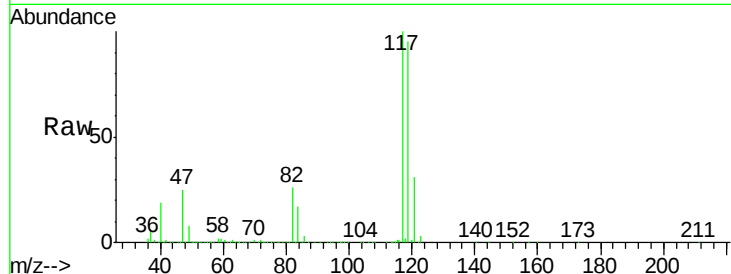
Tot Ion:117 Resp: 234485

Ion Ratio Lower Upper

117 100

119 94.7 78.1 117.1

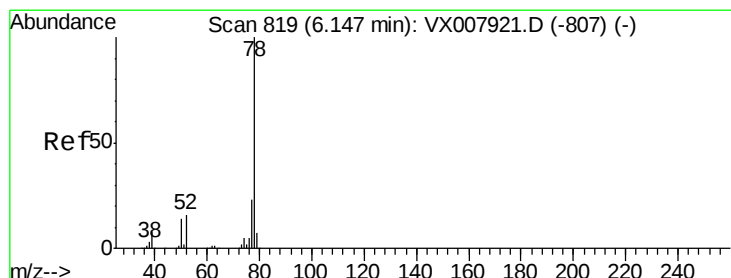
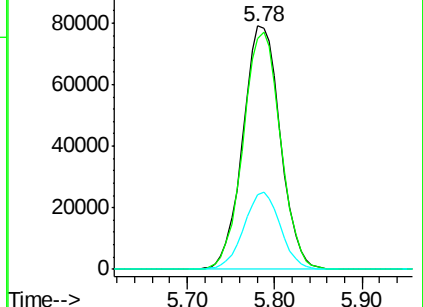
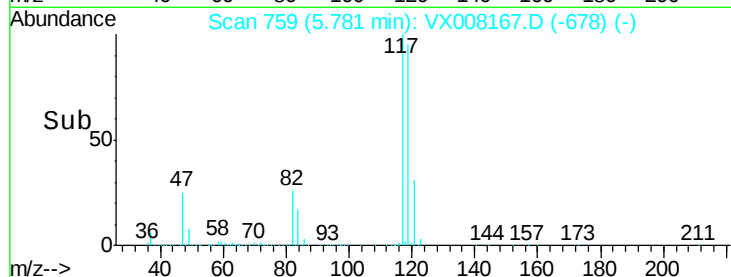
121 30.5 27.0 40.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#34

Benzene

Concen: 18.598 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

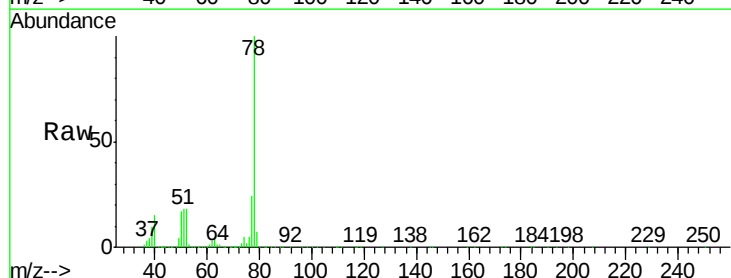
Tgt Ion: 78 Resp: 288390

Ion Ratio Lower Upper

78 100

77 23.8 19.1 28.7

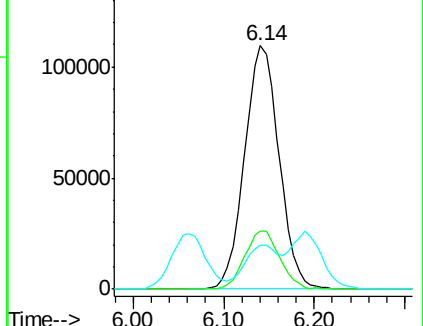
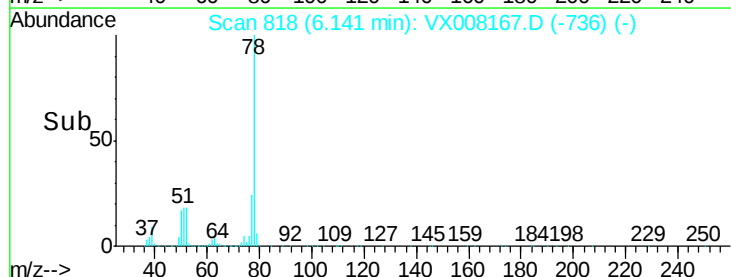
51 15.4 10.8 16.2

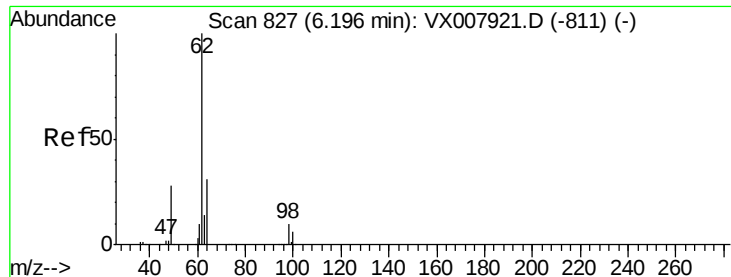


Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#36

1,2-Dichloroethane

Concen: 118.504 ug/l

RT: 6.19 min Scan# 826

Delta R.T. -0.01 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

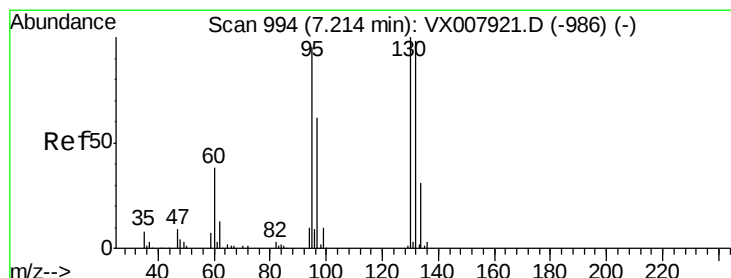
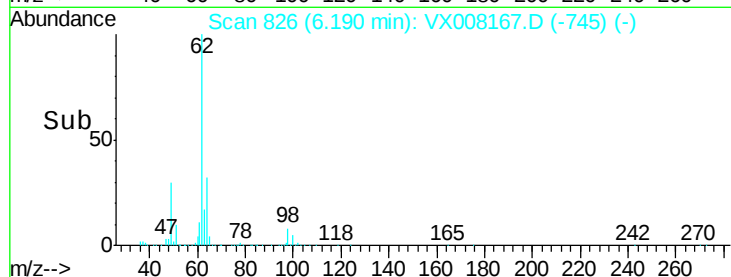
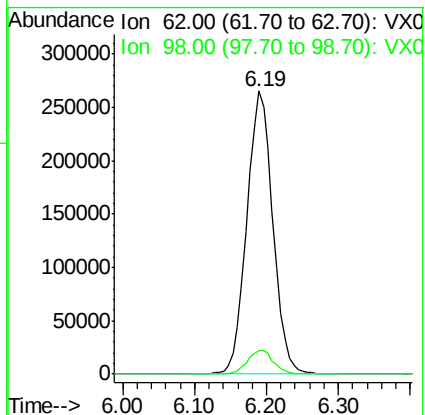
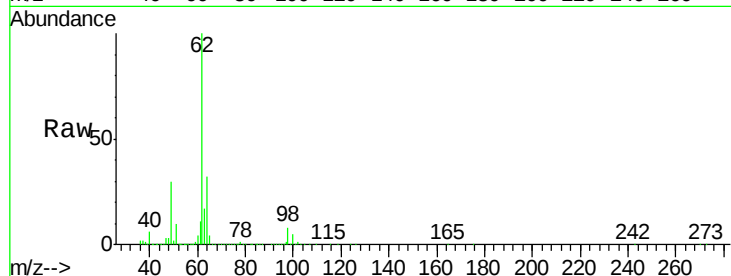
PT-VOA-WP

Tot Ion: 62 Resp: 666966

Ion Ratio Lower Upper

62 100

98 8.4 7.8 11.8



#37

Trichloroethene

Concen: 29.866 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008167.D

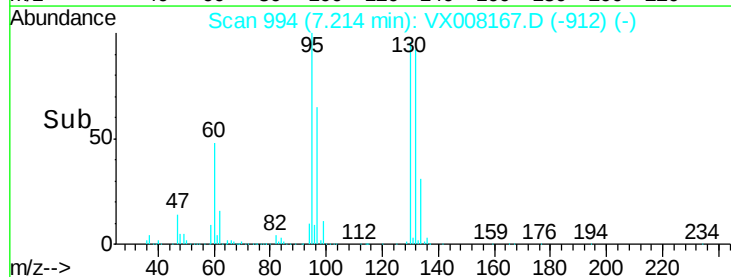
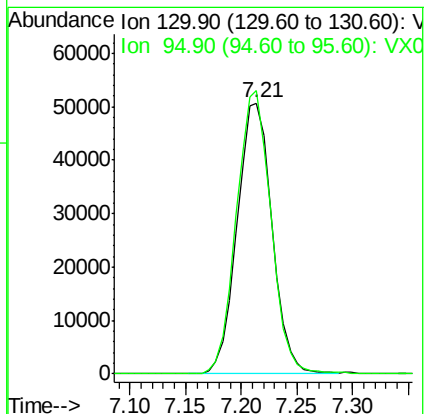
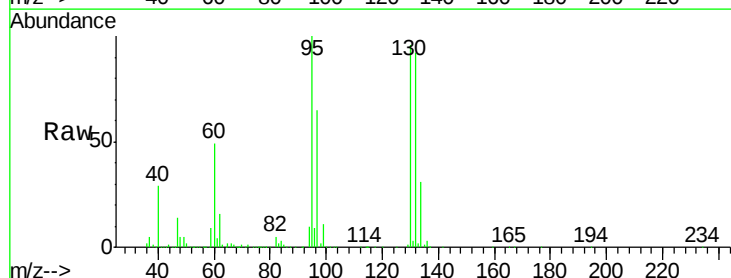
Acq: 18 Mar 2019 15:40

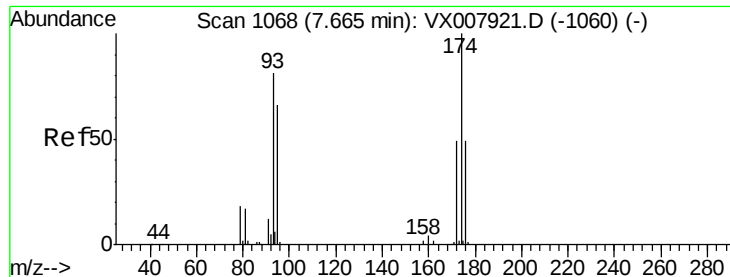
Tgt Ion: 130 Resp: 110359

Ion Ratio Lower Upper

130 100

95 104.4 71.3 106.9





#40

Dibromomethane

Concen: 25.873 ug/l

RT: 7.66 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

PT-VOA-WP

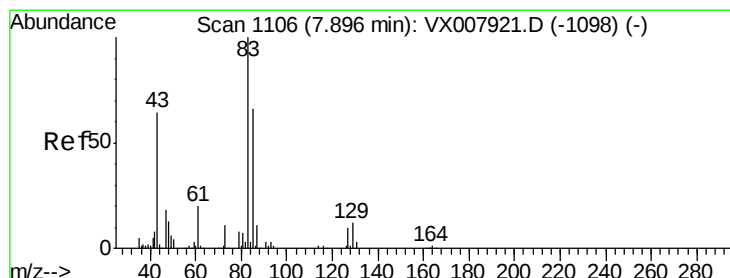
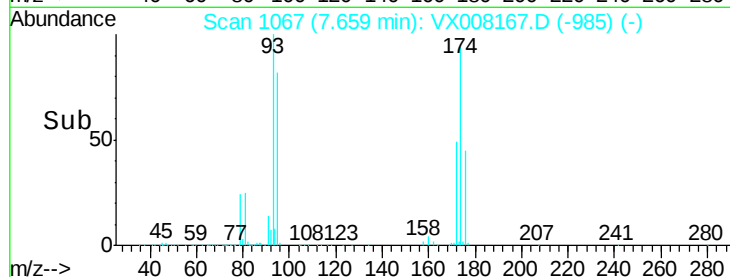
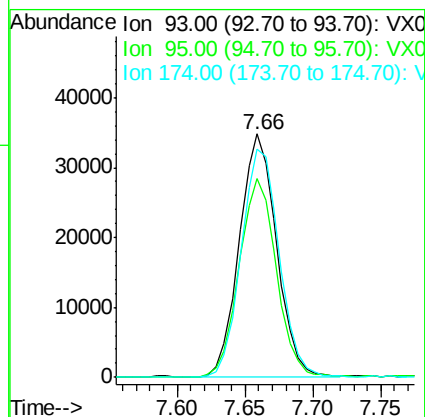
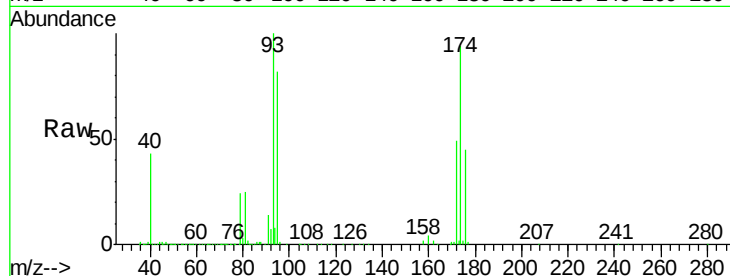
Tot Ion: 93 Resp: 66897

Ion Ratio Lower Upper

93 100

95 81.6 0.0 158.8

174 95.7 0.0 224.2



#41

Bromodichloromethane

Concen: 20.889 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

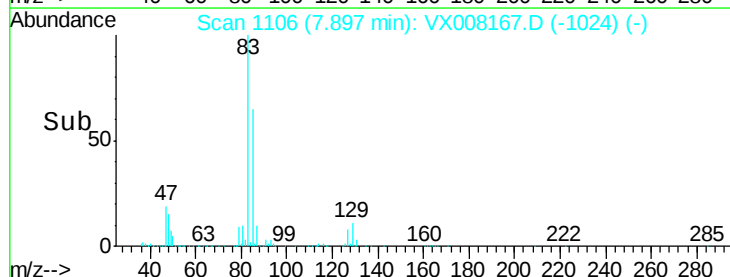
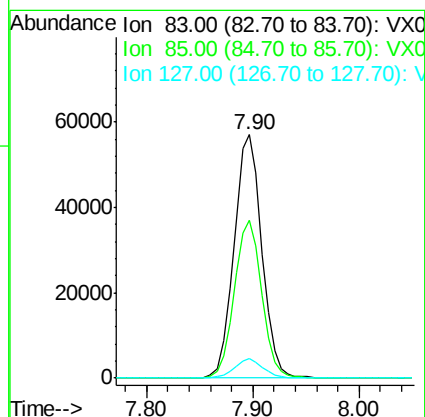
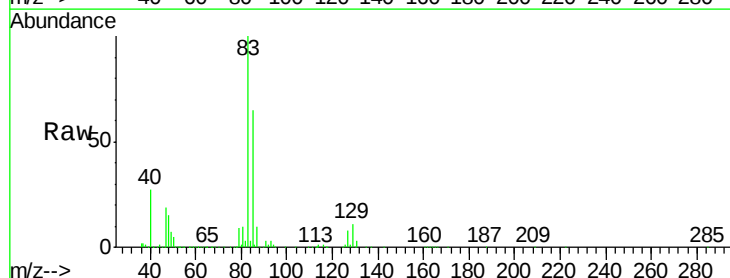
Tgt Ion: 83 Resp: 104438

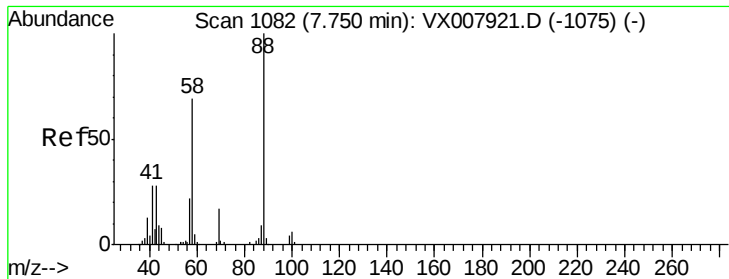
Ion Ratio Lower Upper

83 100

85 64.7 51.1 76.7

127 8.2 7.2 10.8





#45

1,4-Dioxane

Concen: 0.535 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

PT-VOA-WP

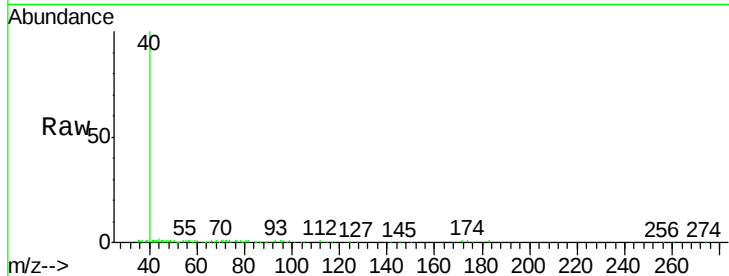
Tot Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

43 430.0 23.6 35.4#

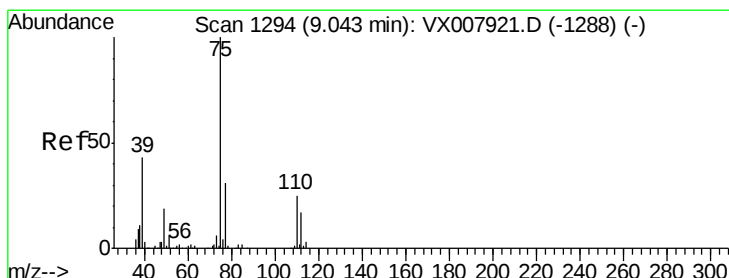
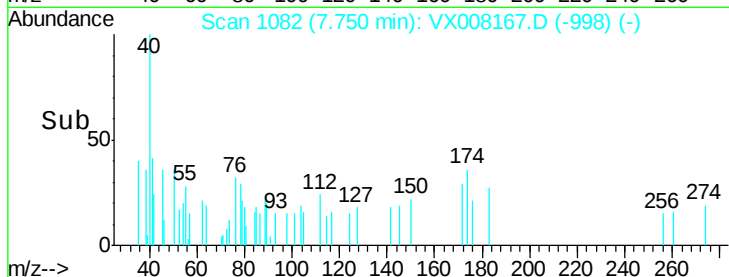
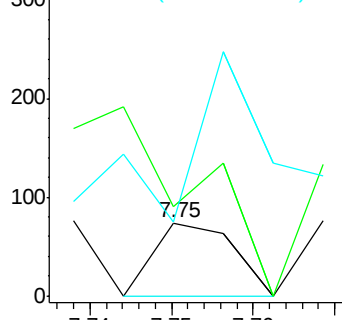
58 110.0 51.6 77.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#48

t-1,3-Dichloropropene

Concen: 16.572 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VX008167.D

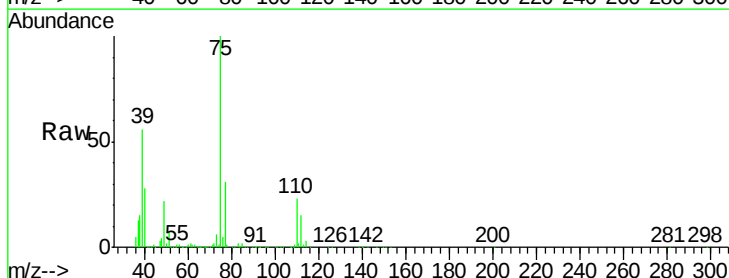
Acq: 18 Mar 2019 15:40

Tgt Ion: 75 Resp: 91577

Ion Ratio Lower Upper

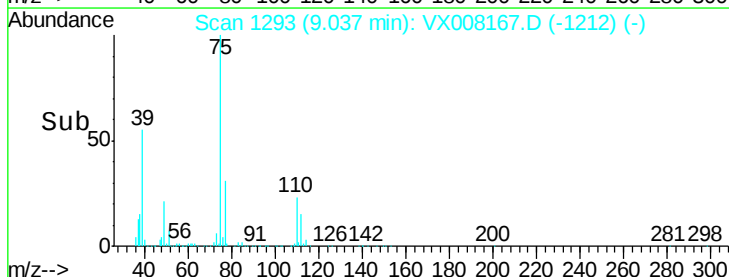
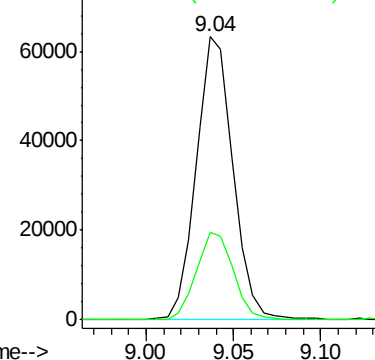
75 100

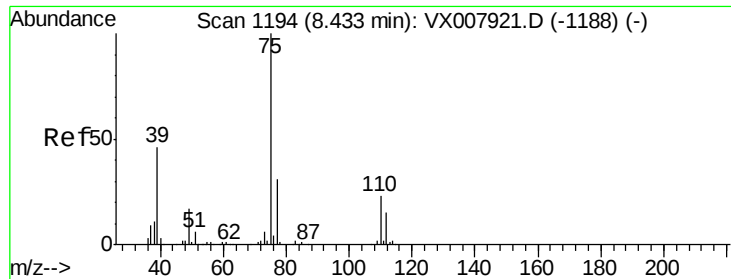
77 31.1 24.5 36.7



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



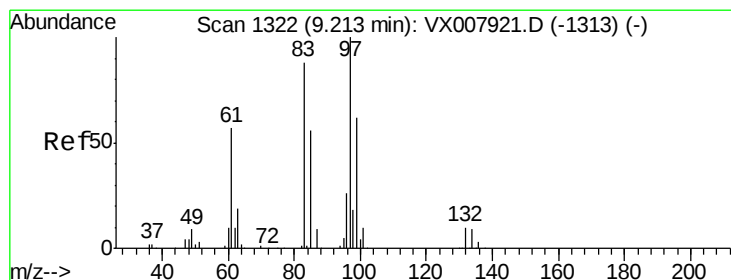
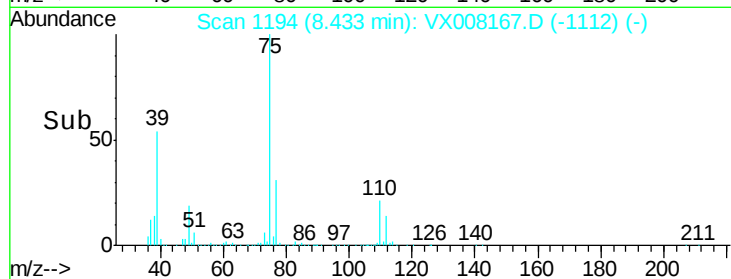
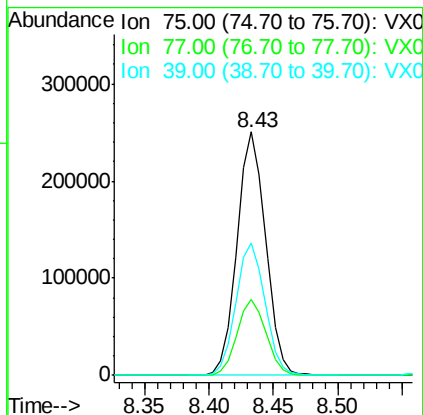
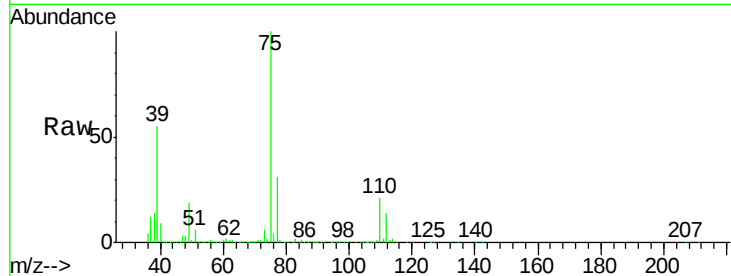


#49

cis-1,3-Dichloropropene
 Concen: 62.921 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

Instrument :
 MSVOA_X
 ClientSampleId :
 PT-VOA-WP

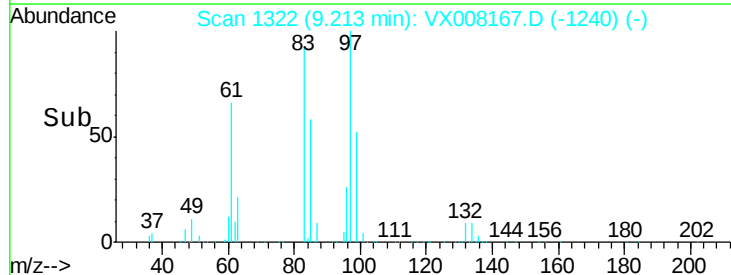
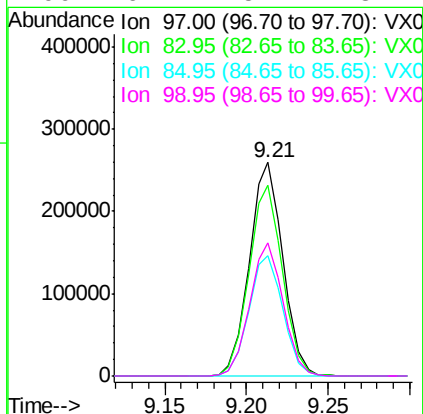
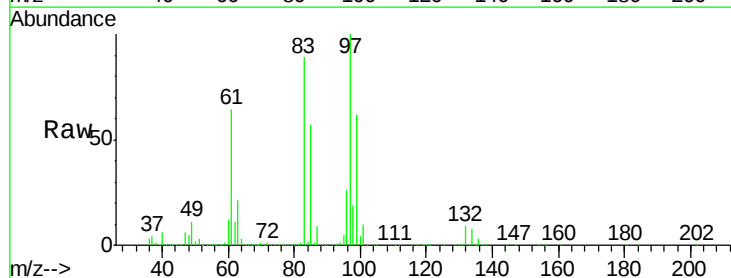
Tot Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.0	37.4
39	54.5	38.5	57.7

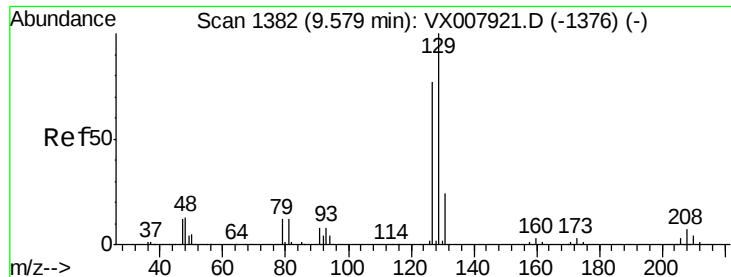


#50

1,1,2-Trichloroethane
 Concen: 99.555 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.0	72.0	108.0
85	56.6	45.0	67.6
99	62.2	54.2	81.4





#53

Dibromochloromethane

Concen: 20.115 ug/l

RT: 9.58 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampled :

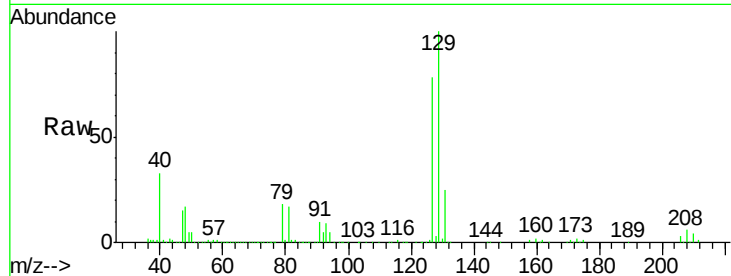
PT-VOA-WP

Tot Ion:129 Resp: 72203

Ion Ratio Lower Upper

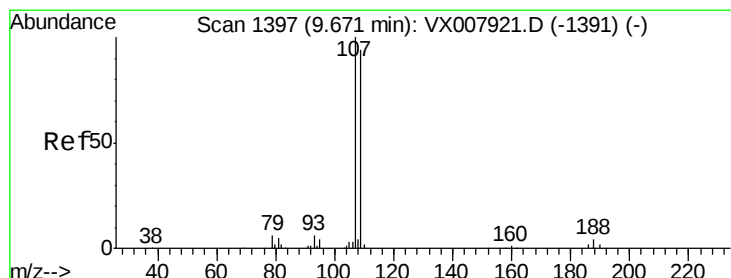
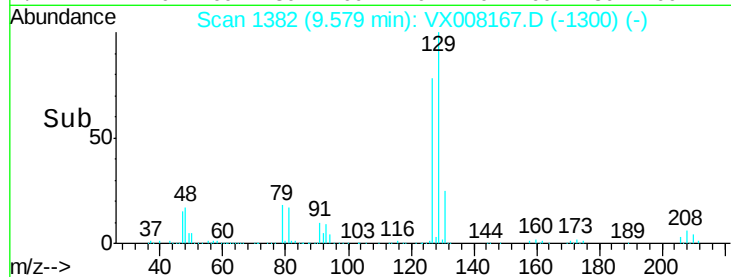
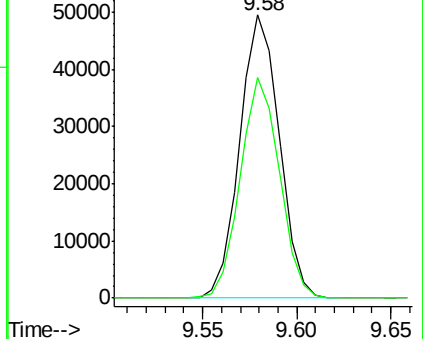
129 100

127 77.3 38.4 115.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 87.854 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX008167.D

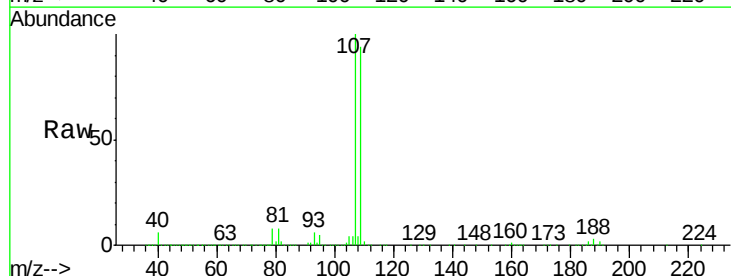
Acq: 18 Mar 2019 15:40

Tgt Ion:107 Resp: 340382

Ion Ratio Lower Upper

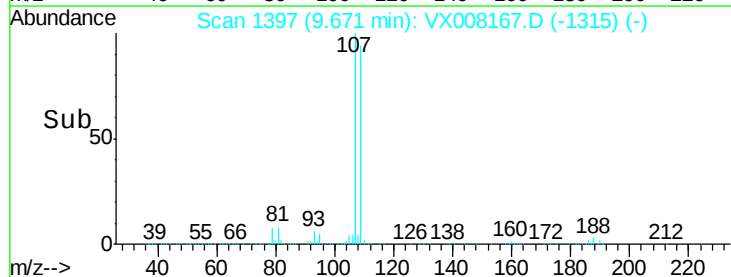
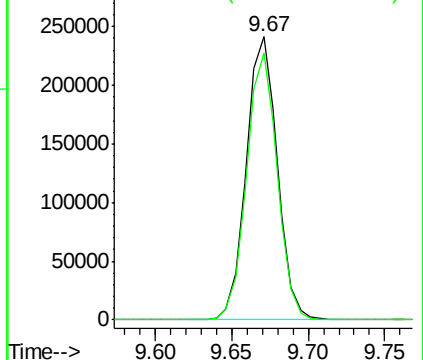
107 100

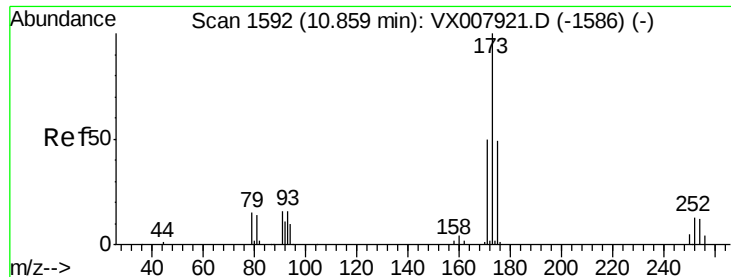
109 93.3 76.6 115.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#56

Bromoform

Concen: 33.064 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

PT-VOA-WP

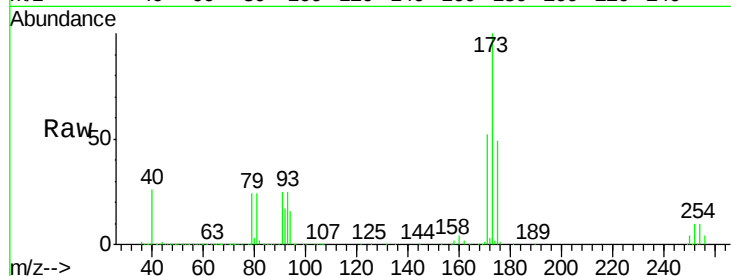
Tot Ion:173 Resp: 85388

Ion Ratio Lower Upper

173 100

175 49.2 38.5 57.7

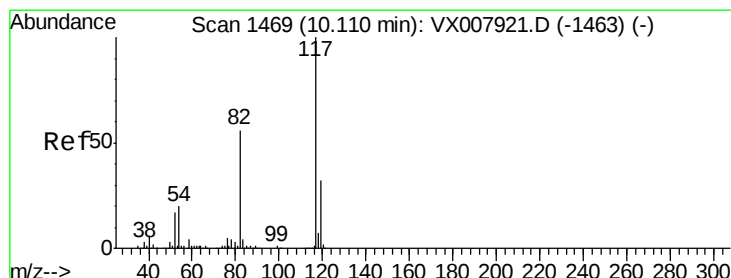
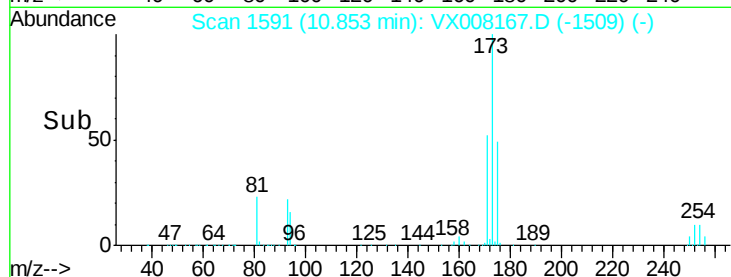
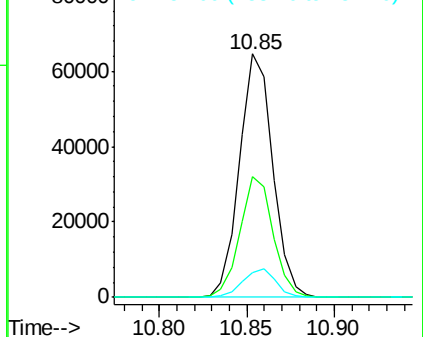
254 11.4 7.4 11.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

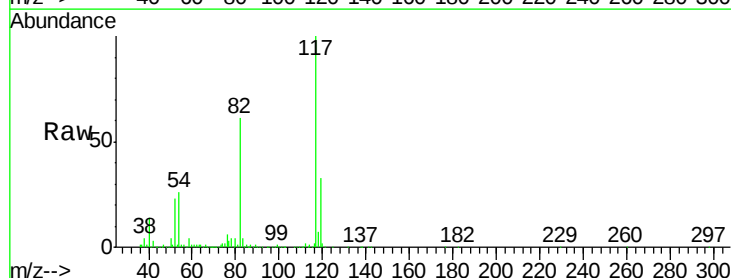
Tgt Ion:117 Resp: 344637

Ion Ratio Lower Upper

117 100

82 59.7 40.4 60.6

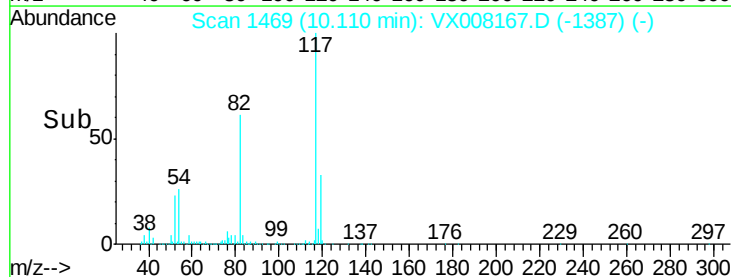
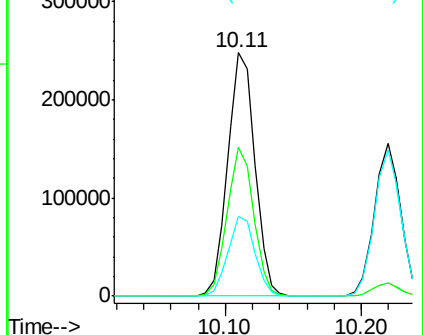
119 32.4 25.8 38.6

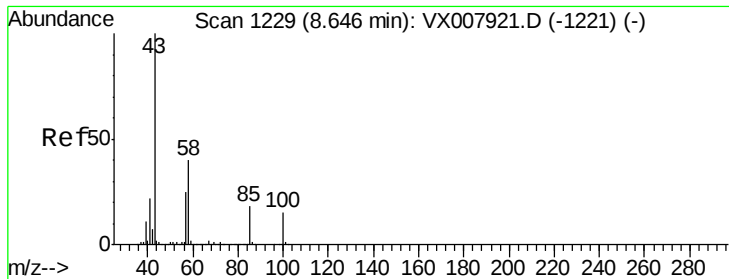


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V





#58

4-Methyl-2-Pentanone

Concen: 182.177 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

PT-VOA-WP

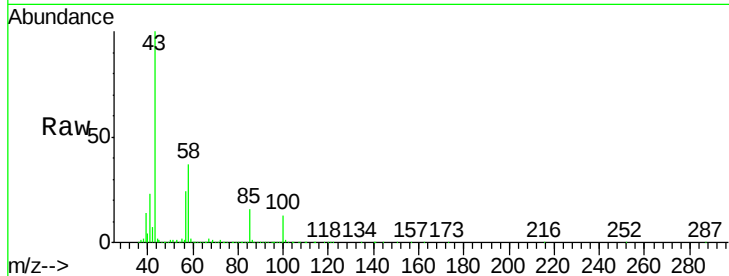
Tot Ion: 43 Resp: 1200772

Ion Ratio Lower Upper

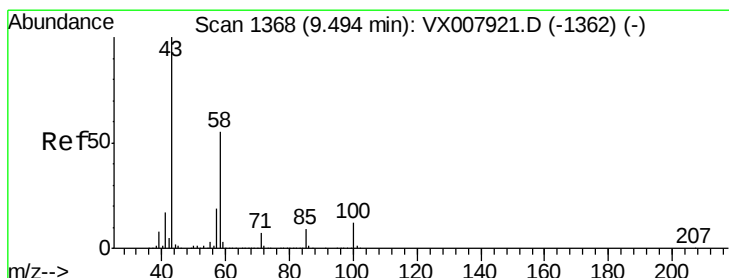
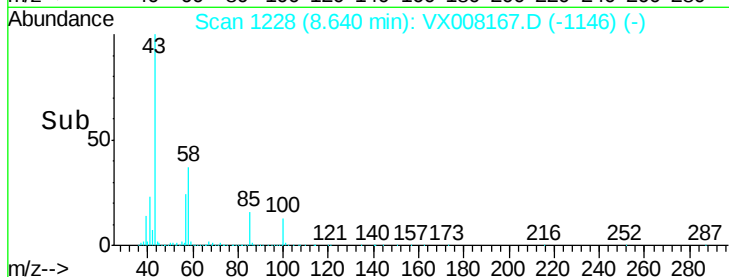
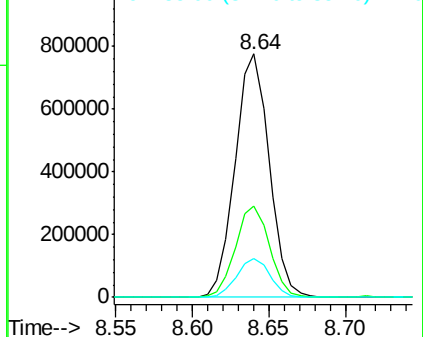
43 100

58 37.6 31.4 47.0

85 15.8 15.0 22.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 85.00 (84.70 to 85.70): VX0



#59

2-Hexanone

Concen: 98.667 ug/l

RT: 9.49 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

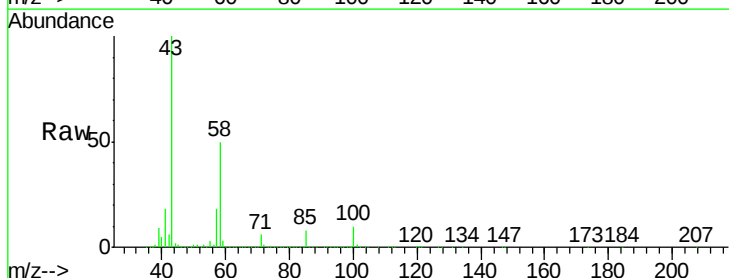
Tgt Ion: 43 Resp: 513105

Ion Ratio Lower Upper

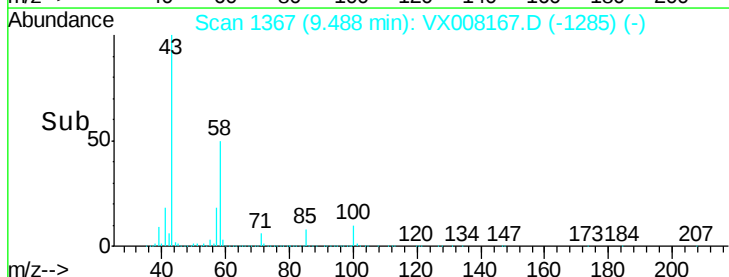
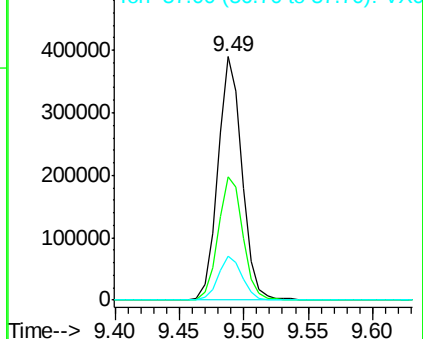
43 100

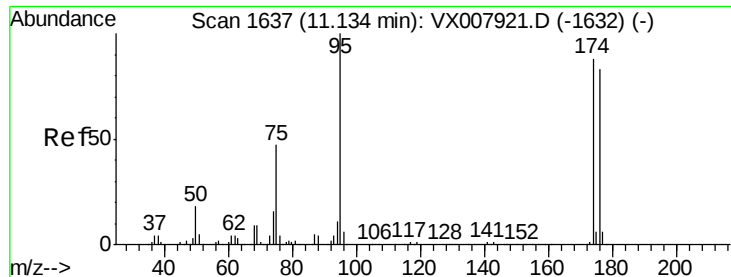
58 51.9 43.9 65.9

57 18.0 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

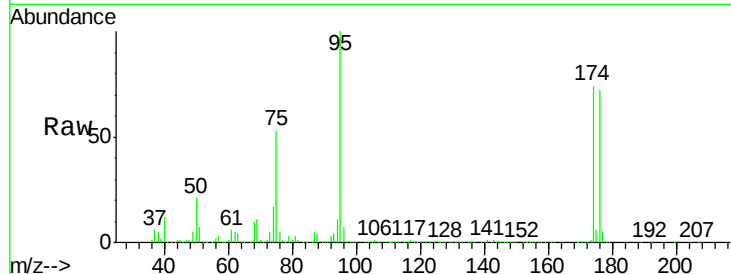




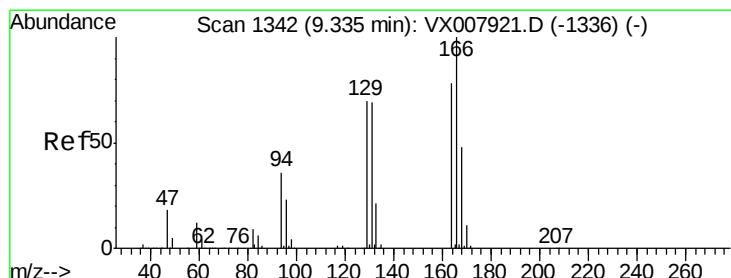
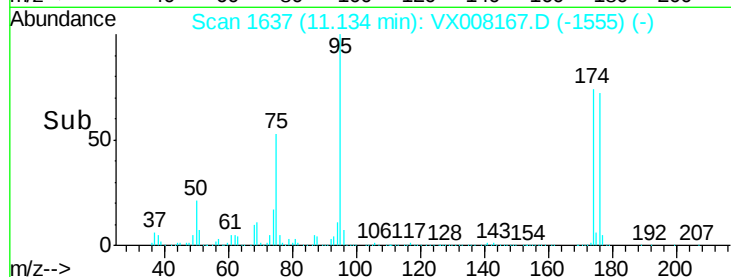
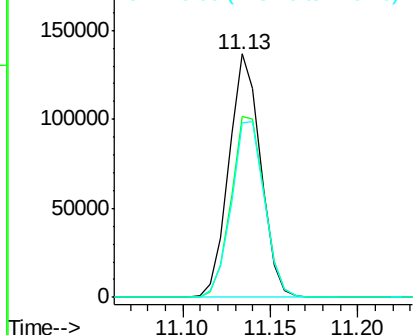
#60
4-Bromofluorobenzene
Concen: 30.007 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008167.D
Acq: 18 Mar 2019 15:40

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tot Ion: 95 Resp: 172591
Ion Ratio Lower Upper
95 100
174 77.7 74.9 112.3
176 75.2 70.7 106.1

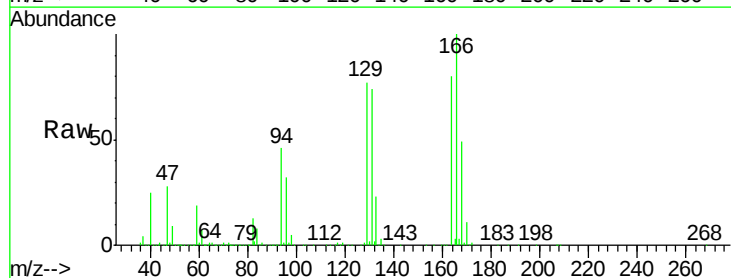


Abundance Ion 95.00 (94.70 to 95.70): VX0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

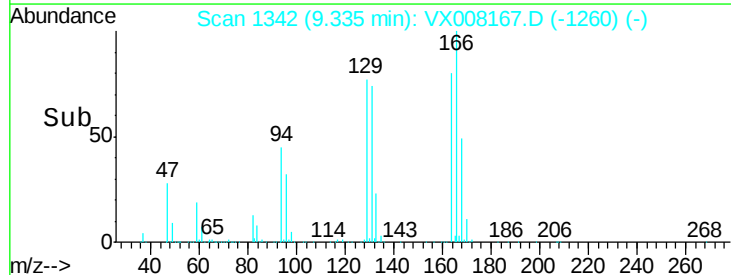
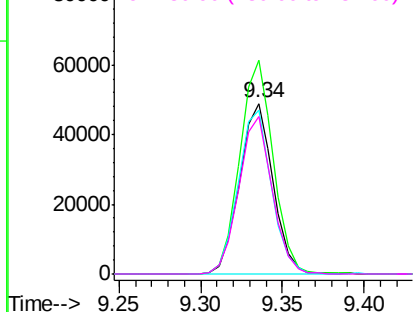


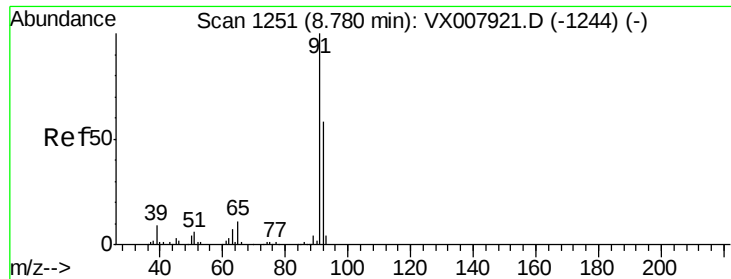
#61
Tetrachloroethene
Concen: 20.054 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008167.D
Acq: 18 Mar 2019 15:40

Tgt Ion:164 Resp: 69604
Ion Ratio Lower Upper
164 100
166 125.4 103.9 155.9
129 96.4 74.7 112.1
131 92.8 71.7 107.5



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#62

Toluene

Concen: 33.922 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

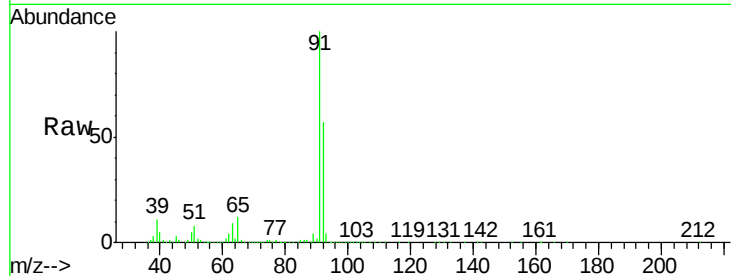
PT-VOA-WP

Tot Ion: 91 Resp: 552895

Ion Ratio Lower Upper

91 100

92 56.9 46.4 69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

8.78

400000

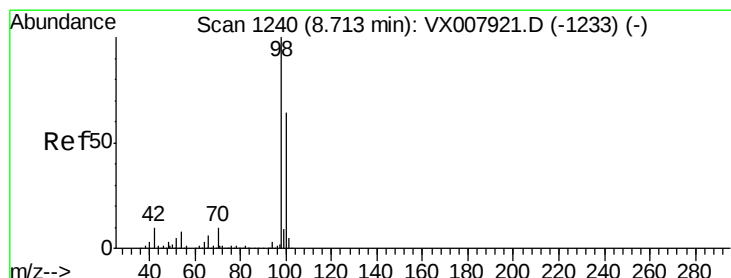
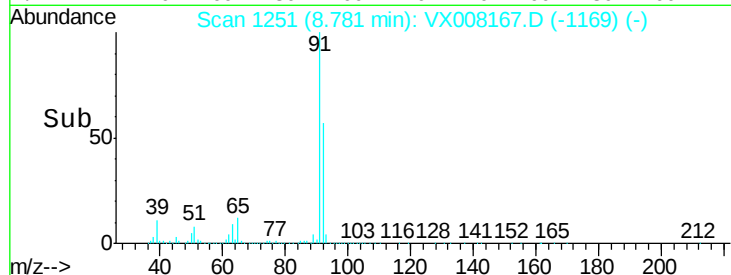
300000

200000

100000

0

Time-->



#63

Toluene-d8

Concen: 30.002 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008167.D

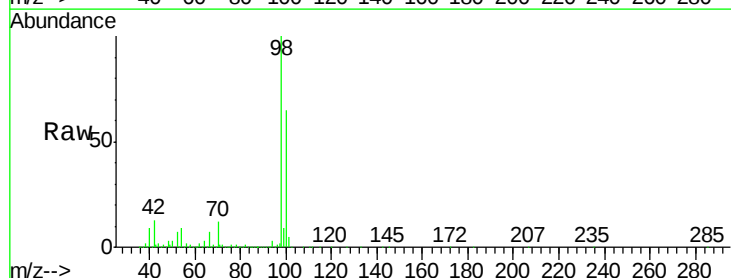
Acq: 18 Mar 2019 15:40

Tgt Ion: 98 Resp: 502390

Ion Ratio Lower Upper

98 100

100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

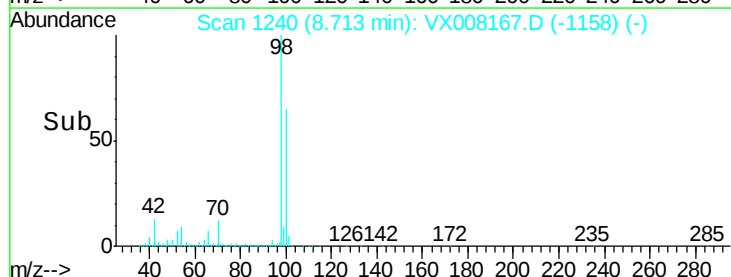
300000

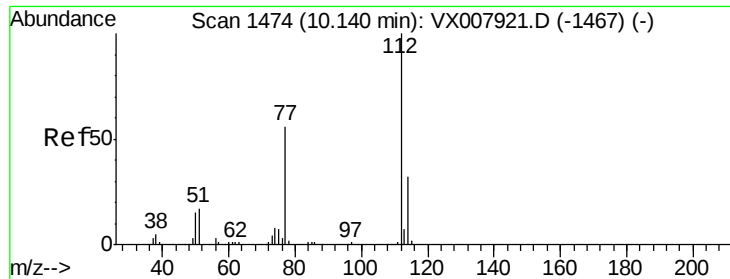
200000

100000

0

Time-->





#64

Chlorobenzene

Concen: 77.986 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.01 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

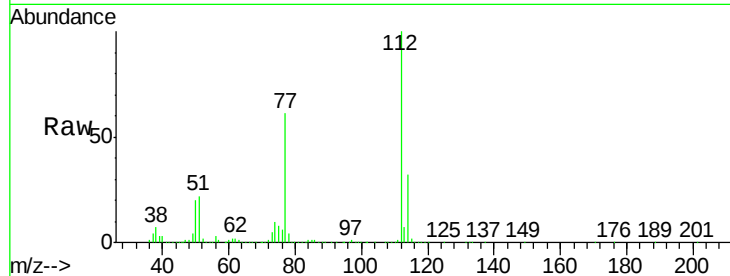
PT-VOA-WP

Tot Ion:112 Resp: 756501

Ion Ratio Lower Upper

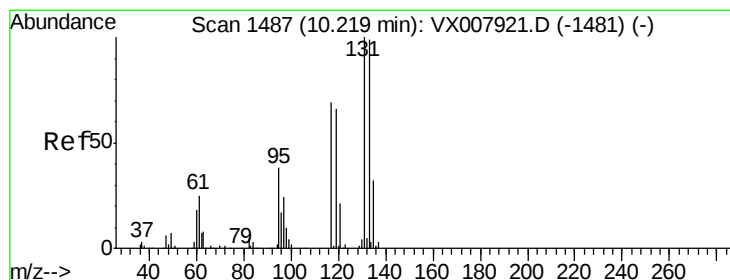
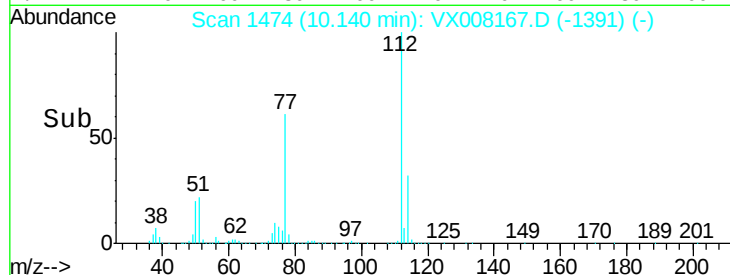
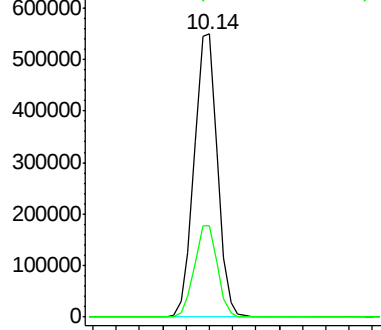
112 100

114 32.1 25.4 38.2



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#65

1,1,1,2-Tetrachloroethane

Concen: 87.458 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

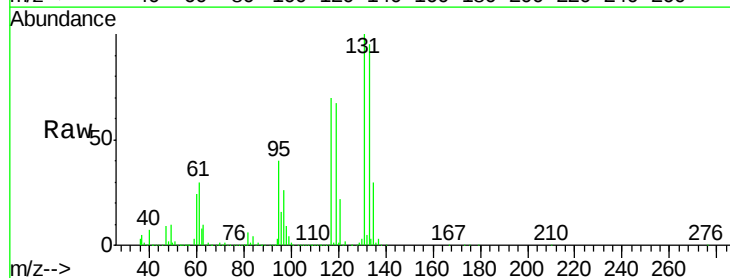
Tgt Ion:131 Resp: 297486

Ion Ratio Lower Upper

131 100

133 95.1 0.0 191.6

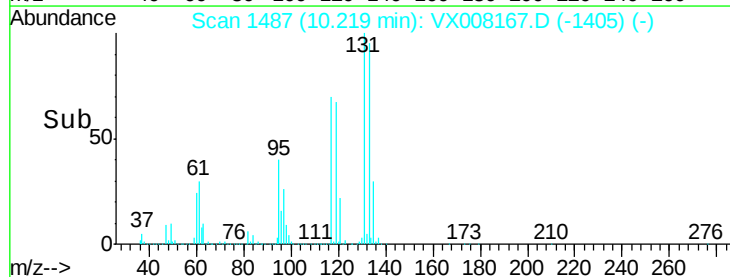
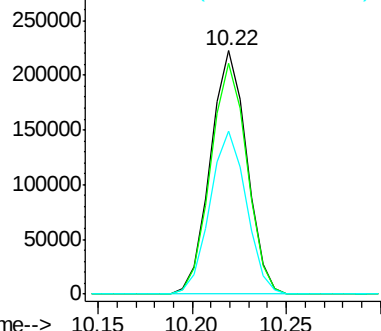
119 67.2 0.0 127.4

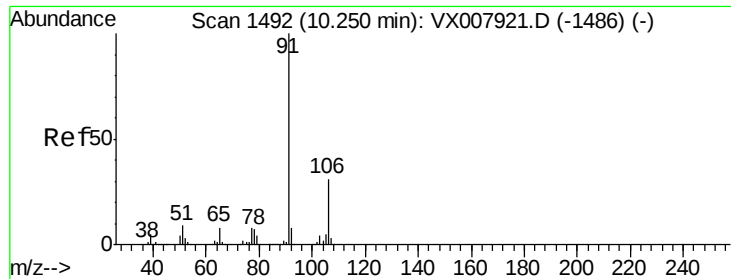


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#66

Ethyl Benzene

Concen: 50.313 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

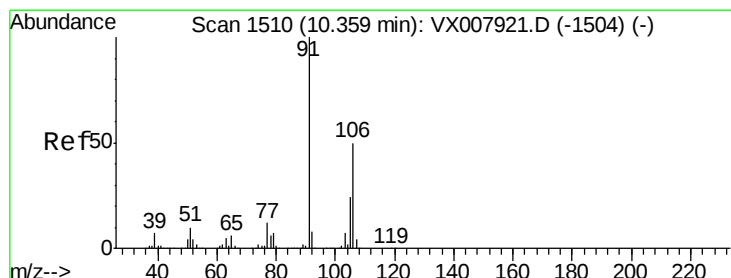
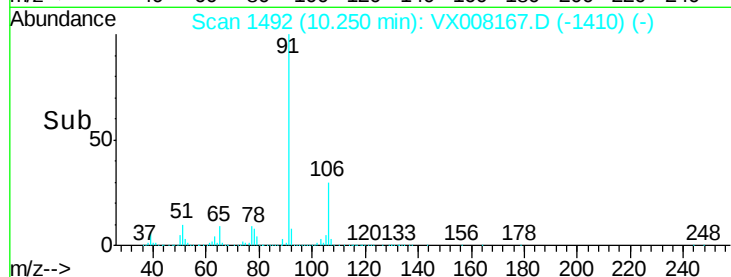
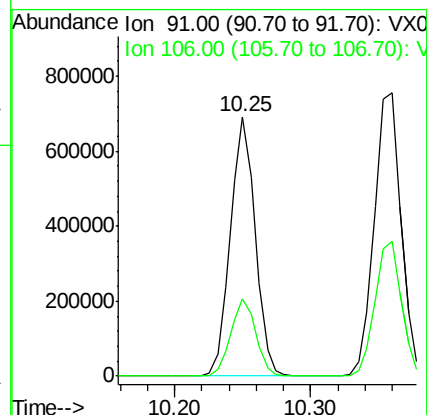
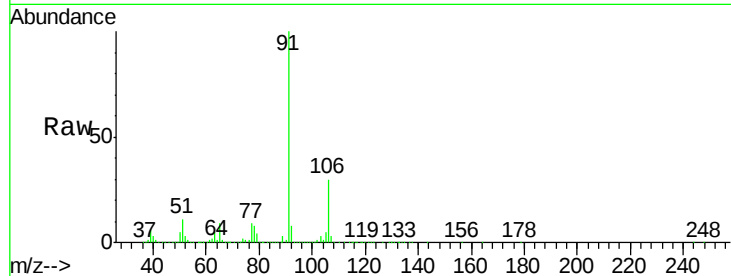
PT-VOA-WP

Tot Ion: 91 Resp: 875876

Ion Ratio Lower Upper

91 100

106 29.8 26.0 39.0



#67

m/p-Xylenes

Concen: 76.058 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX008167.D

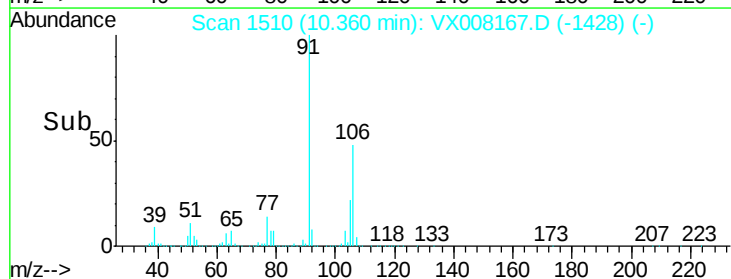
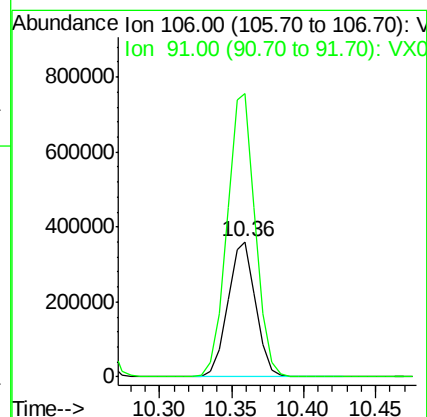
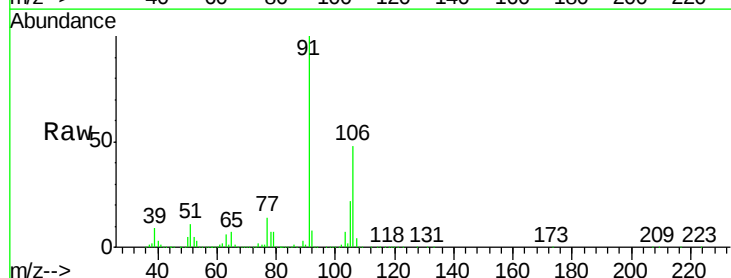
Acq: 18 Mar 2019 15:40

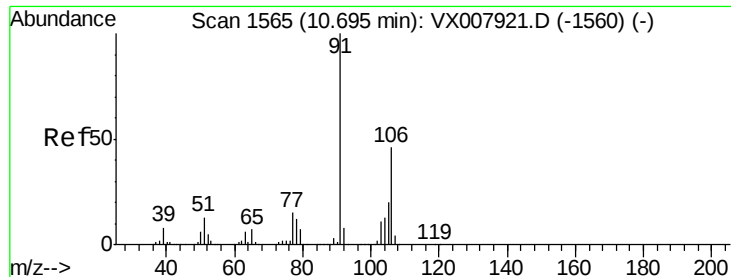
Tgt Ion: 106 Resp: 489138

Ion Ratio Lower Upper

106 100

91 211.9 157.0 235.4

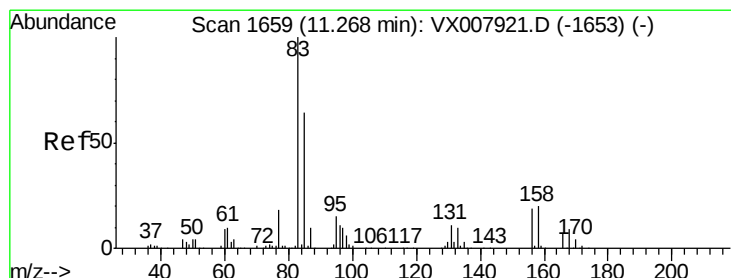
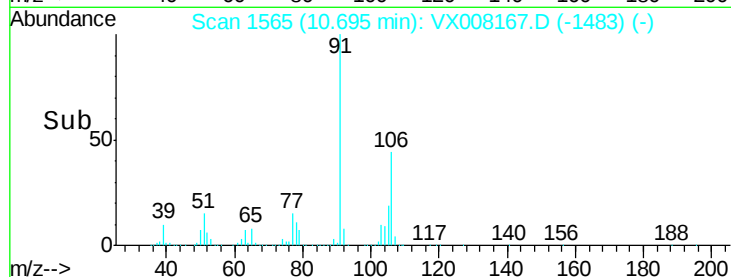
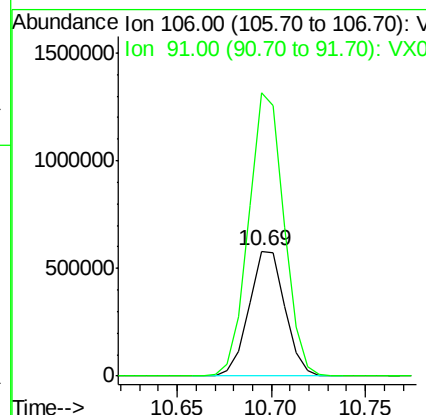
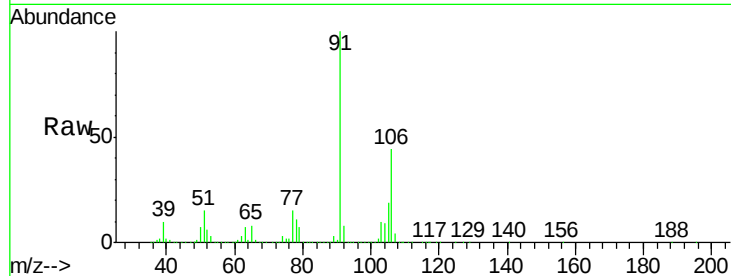




#68
o-Xylene
Concen: 124.318 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX008167.D
Acq: 18 Mar 2019 15:40

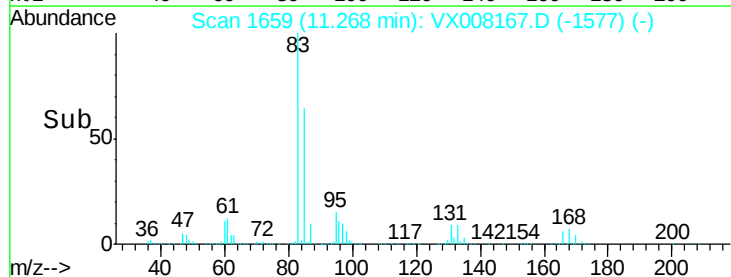
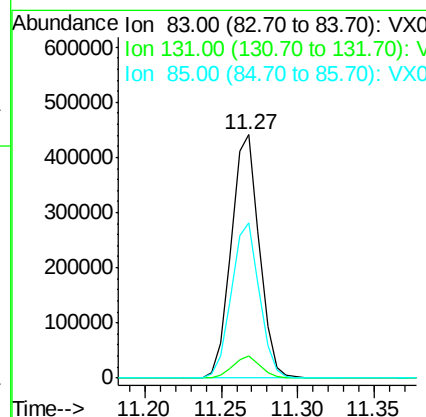
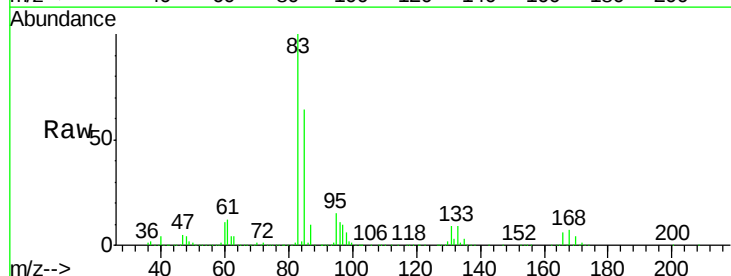
Instrument :
MSVOA_X
ClientSampled :
PT-VOA-WP

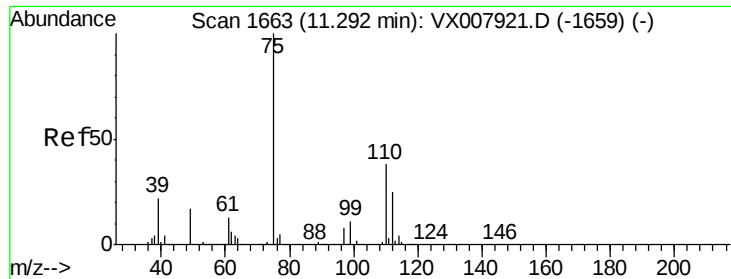
Tot Ion:106 Resp: 768275
Ion Ratio Lower Upper
106 100
91 222.7 104.4 313.2



#71
1,1,2,2-Tetrachloroethane
Concen: 95.838 ug/l
RT: 11.27 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX008167.D
Acq: 18 Mar 2019 15:40

Tgt Ion: 83 Resp: 559400
Ion Ratio Lower Upper
83 100
131 8.9 5.4 16.2
85 63.9 32.8 98.4





#72

1,2,3-Trichloropropane

Concen: 21.761 ug/l

RT: 11.29 min Scan# 1663

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

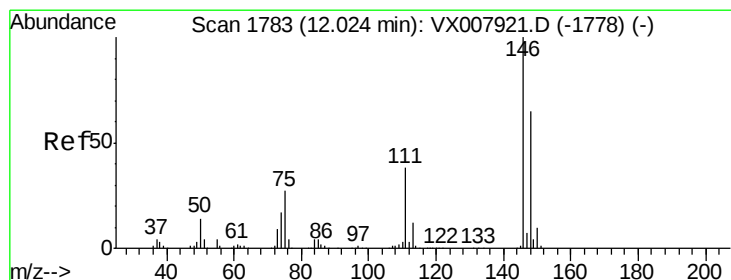
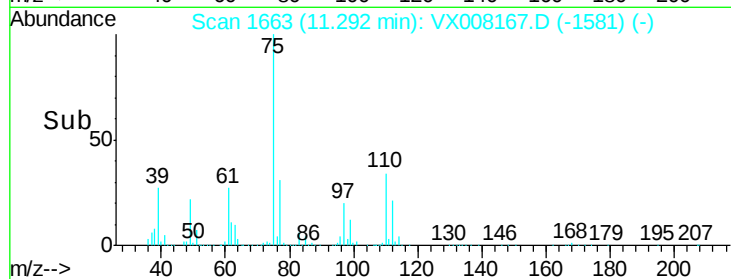
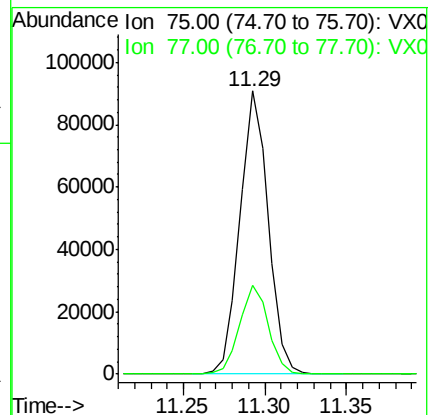
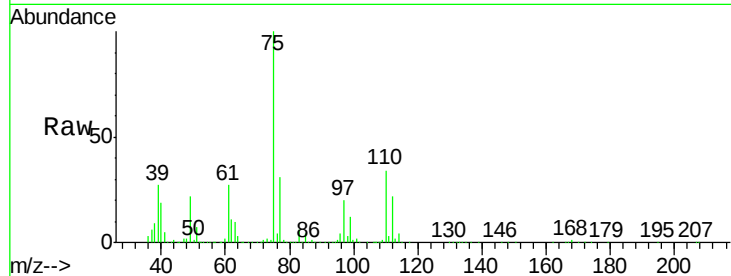
PT-VOA-WP

Tot Ion: 75 Resp: 109535

Ion Ratio Lower Upper

75 100

77 31.5 0.0 76.4



#83

1,3-Dichlorobenzene

Concen: 87.410 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

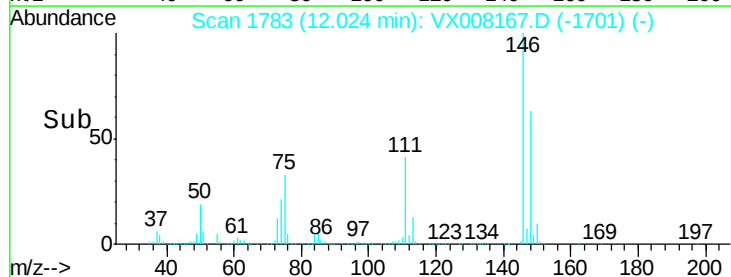
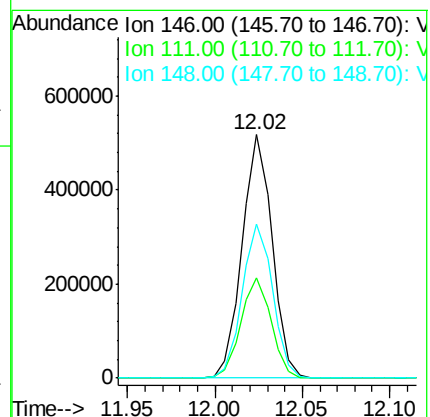
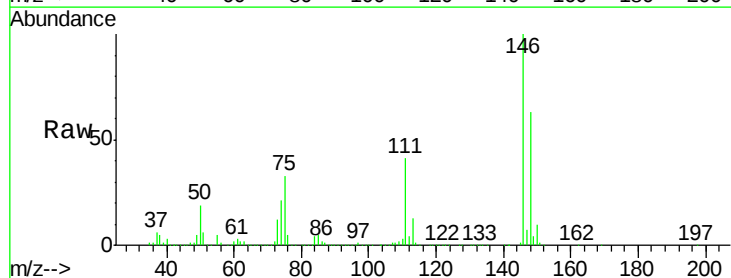
Tgt Ion: 146 Resp: 617915

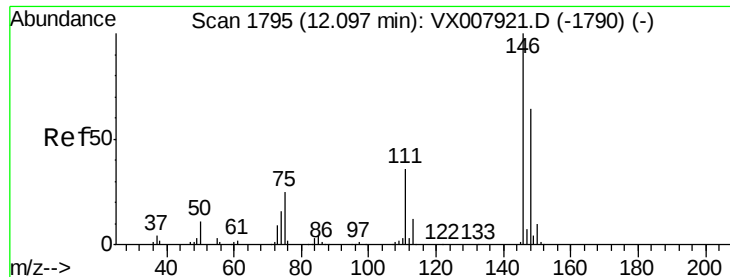
Ion Ratio Lower Upper

146 100

111 41.6 18.8 56.3

148 64.2 30.6 91.8





#84

1,4-Dichlorobenzene

Concen: 88.072 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.07 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

PT-VOA-WP

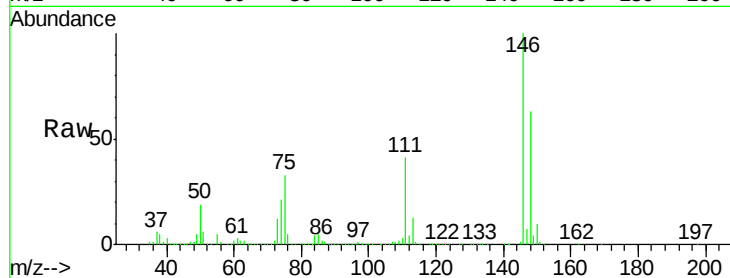
Tot Ion:146 Resp: 617915

Ion Ratio Lower Upper

146 100

111 41.6 17.6 52.8

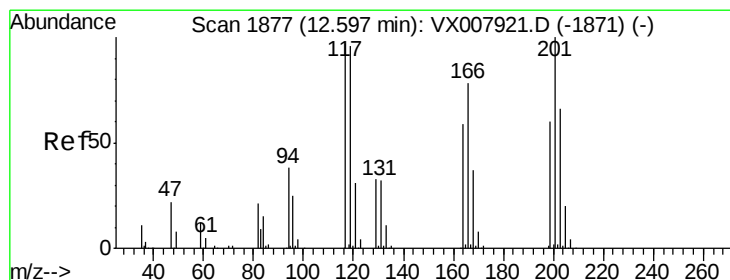
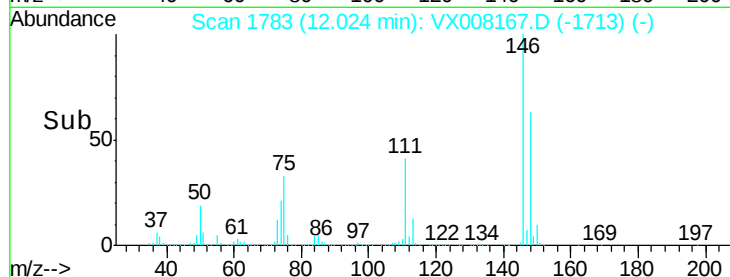
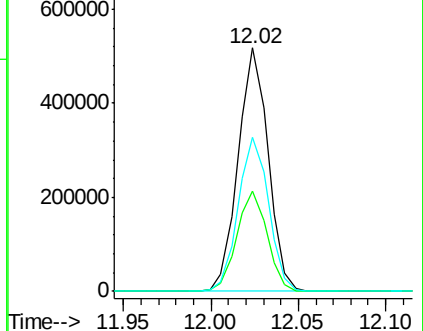
148 64.2 31.4 94.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#86

Hexachloroethane

Concen: 0.818 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.00 min

Lab File: VX008167.D

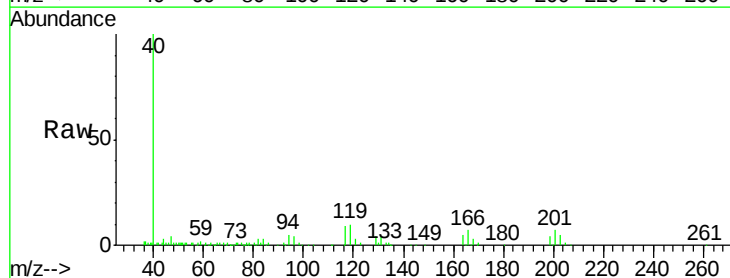
Acq: 18 Mar 2019 15:40

Tgt Ion:117 Resp: 1968

Ion Ratio Lower Upper

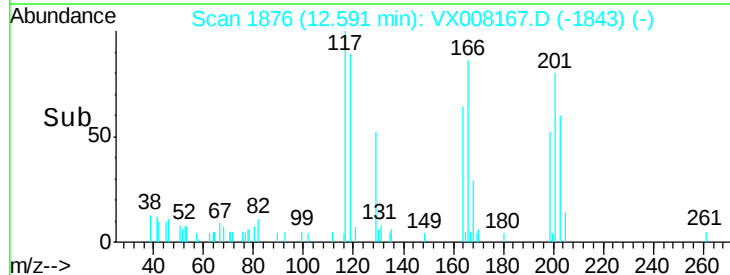
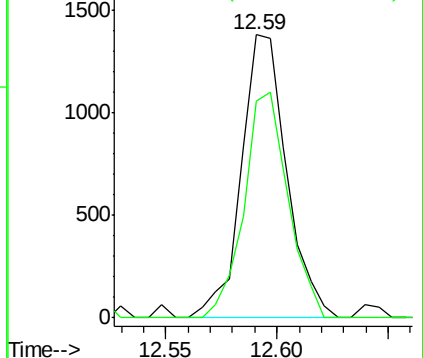
117 100

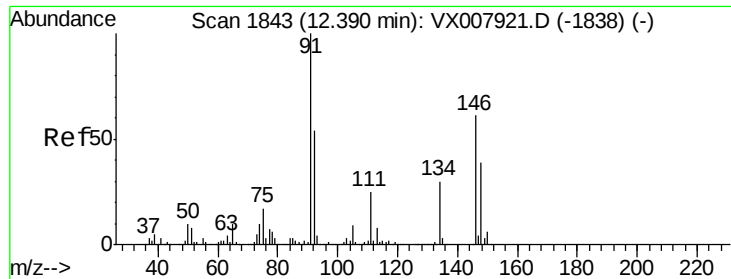
201 76.9 41.1 123.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

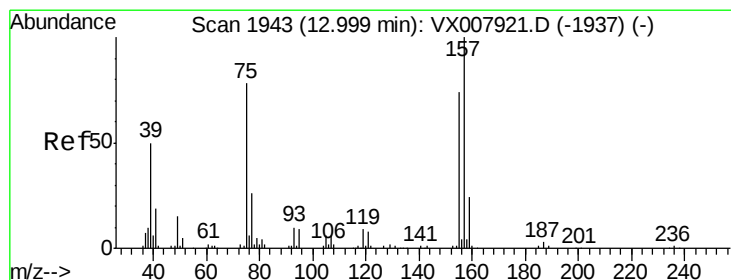
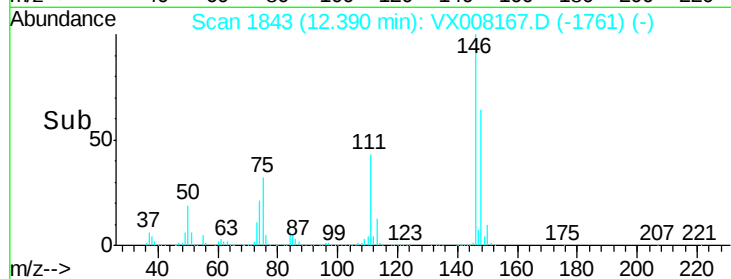
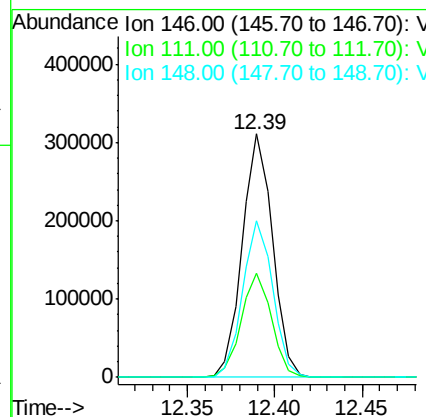
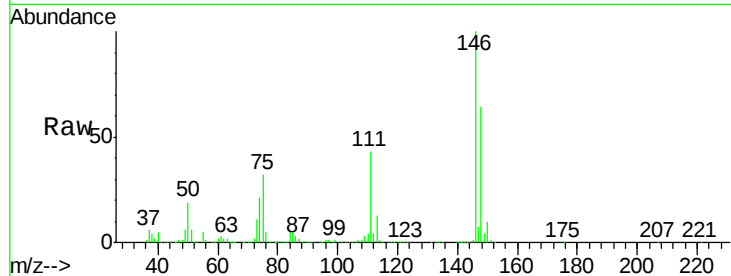




#87
 1,2-Dichlorobenzene
 Concen: 53.237 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

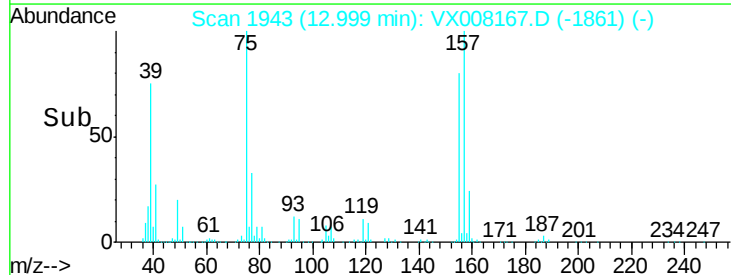
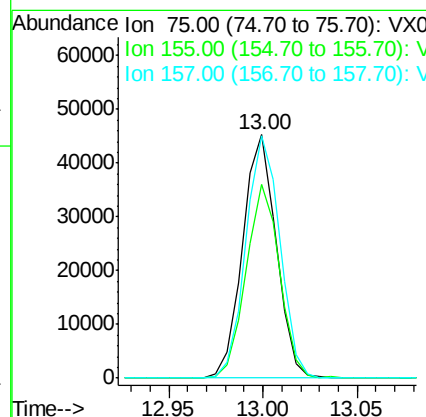
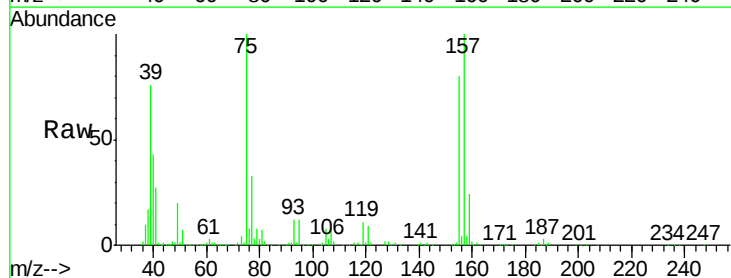
Instrument :
 MSVOA_X
 ClientSampleId :
 PT-VOA-WP

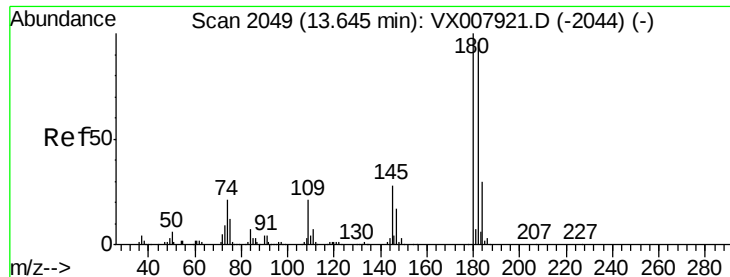
Tot Ion:146 Resp: 374997
 Ion Ratio Lower Upper
 146 100
 111 42.8 19.3 57.8
 148 63.5 32.1 96.3



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 43.358 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

Tgt Ion: 75 Resp: 56044
 Ion Ratio Lower Upper
 75 100
 155 79.1 81.0 121.6#
 157 100.8 103.2 154.8#

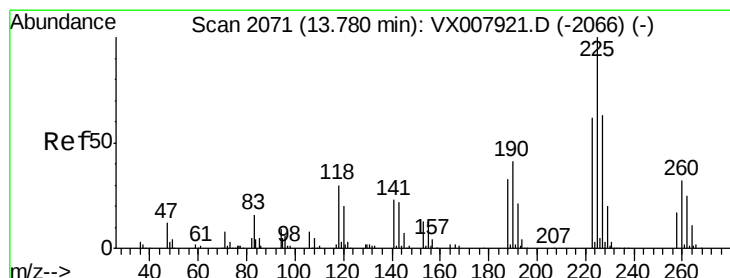
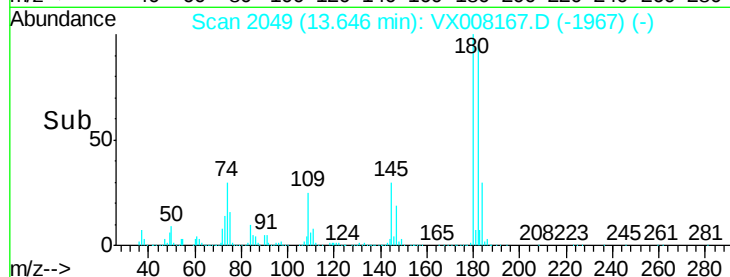
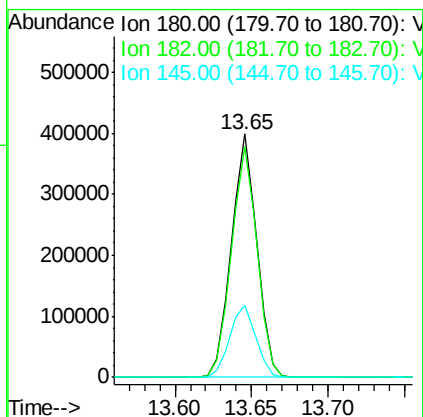
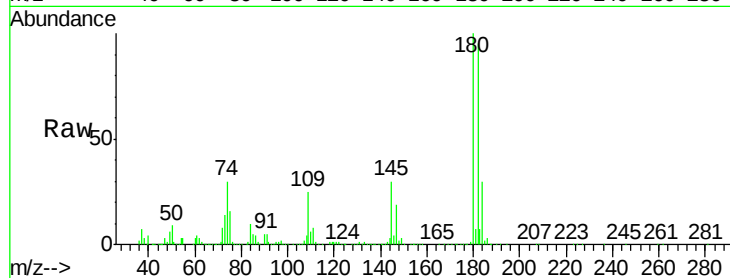




#89
 1,2,4-Trichlorobenzene
 Concen: 100.245 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

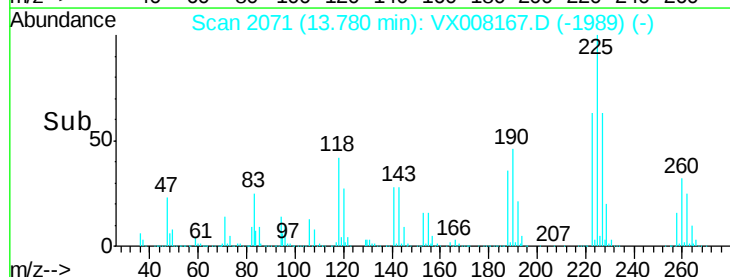
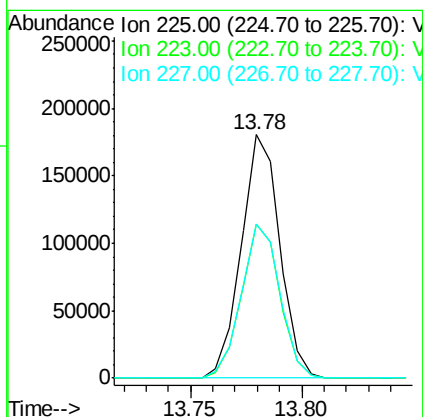
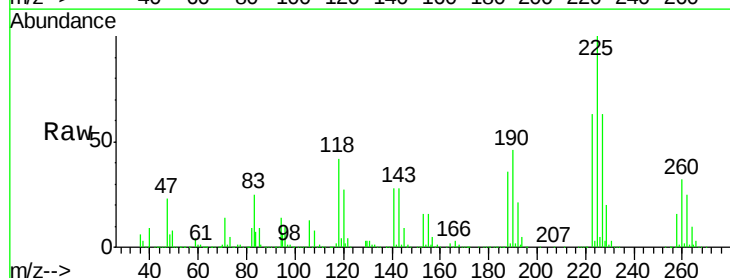
Instrument :
 MSVOA_X
 ClientSampled :
 PT-VOA-WP

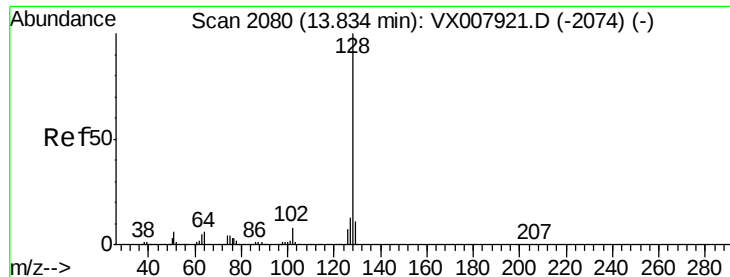
Tot Ion:180 Resp: 459966
 Ion Ratio Lower Upper
 180 100
 182 95.3 75.6 113.4
 145 30.5 23.0 34.6



#90
 Hexachlorobutadiene
 Concen: 91.500 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. -0.00 min
 Lab File: VX008167.D
 Acq: 18 Mar 2019 15:40

Tgt Ion:225 Resp: 217874
 Ion Ratio Lower Upper
 225 100
 223 62.9 0.0 123.8
 227 63.7 0.0 124.4





#91

Naphthalene

Concen: 37.759 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

Instrument :

MSVOA_X

ClientSampleId :

PT-VOA-WP

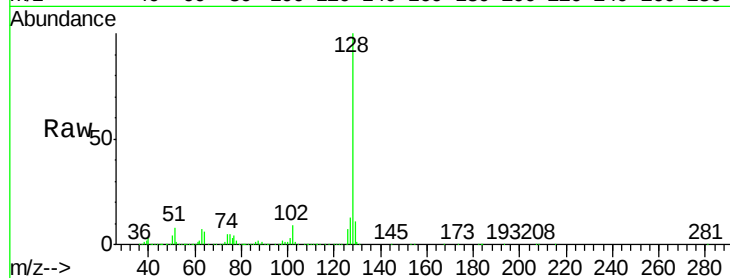
Tot Ion:128 Resp: 561159

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

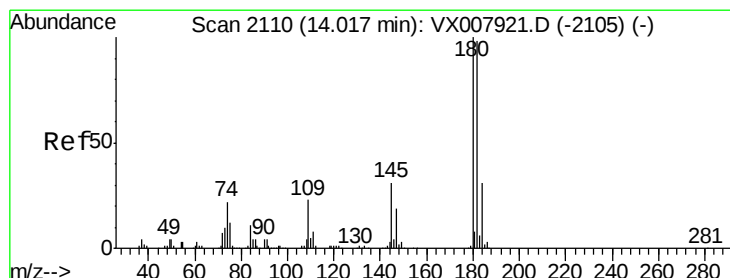
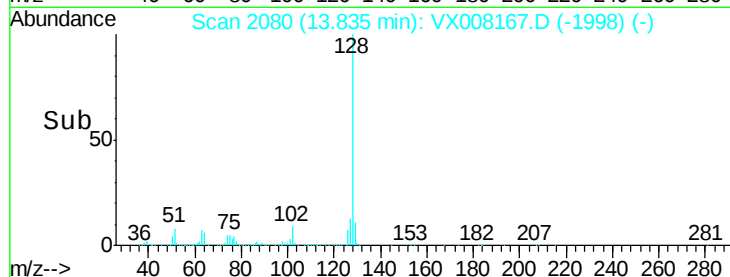
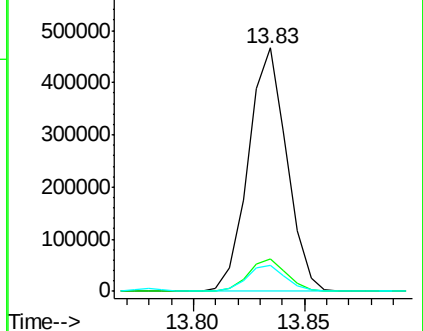
129 10.8 8.9 13.3



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



#92

1,2,3-Trichlorobenzene

Concen: 0.411 ug/l

RT: 14.02 min Scan# 2111

Delta R.T. 0.01 min

Lab File: VX008167.D

Acq: 18 Mar 2019 15:40

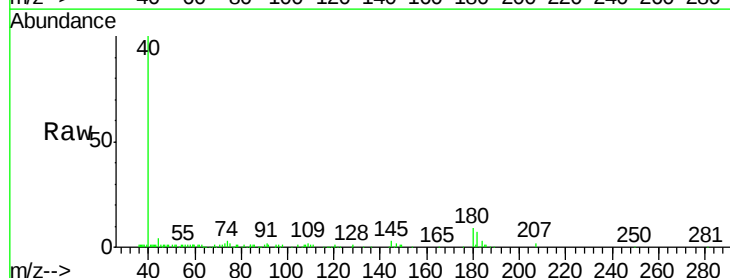
Tgt Ion:180 Resp: 1882

Ion Ratio Lower Upper

180 100

182 103.0 0.0 193.0

145 40.2 0.0 63.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

