

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101819\
 Data File : VX013129.D
 Acq On : 18 Oct 2019 15:58
 Operator : JC/SP
 Sample : K5414-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-309-SRI4

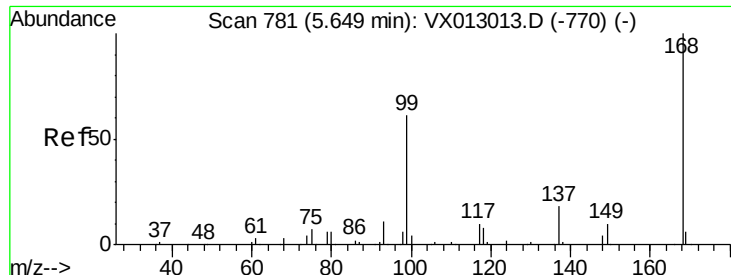
Quant Time: Oct 18 23:58:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	168115	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	266345	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	223090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	88478	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	102632	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
35) Dibromofluoromethane	5.49	113	81044	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
50) Toluene-d8	8.71	98	313776	52.63	ug/l	0.00
Spiked Amount			Recovery	=	105.26%	
62) 4-Bromofluorobenzene	11.13	95	103913	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	399	0.499	ug/l #	54
6) Chloroethane	1.73	64	413	0.716	ug/l #	82
10) Methyl Iodide	2.51	142	303	5.225	ug/l #	60
13) Acrolein	2.19	56	83	0.210	ug/l #	14
16) Acetone	2.43	43	2245	2.027	ug/l	97
17) Carbon Disulfide	2.56	76	3215	0.664	ug/l	98
20) Methylene Chloride	2.85	84	477	0.234	ug/l #	87
24) 1,1-Dichloroethane	3.69	63	704	0.216	ug/l #	81
28) Bromochloromethane	5.18	49	61	Below Cal	#	13
30) Chloroform	5.20	83	3527	1.054	ug/l	90
31) Cyclohexane	5.65	56	3169	1.039	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	12764	5.451	ug/l #	50
38) Carbon Tetrachloride	5.65	117	17629	7.734	ug/l #	17
44) Trichloroethene	7.21	130	3701	1.930	ug/l	92
47) Bromodichloromethane	7.90	83	696	0.304	ug/l #	54
60) Dibromochloromethane	9.58	129	722	2.214	ug/l	91
64) Tetrachloroethene	9.34	164	9764	6.310	ug/l	94
71) Bromoform	10.85	173	226	3.295	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	51433	26.209	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	51433	65.974	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX013129.D

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ClientSampleId :

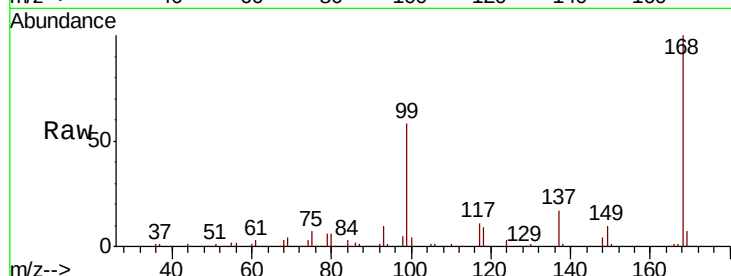
MW-309-SRI4

Tot Ion:168 Resp: 168115

Ion Ratio Lower Upper

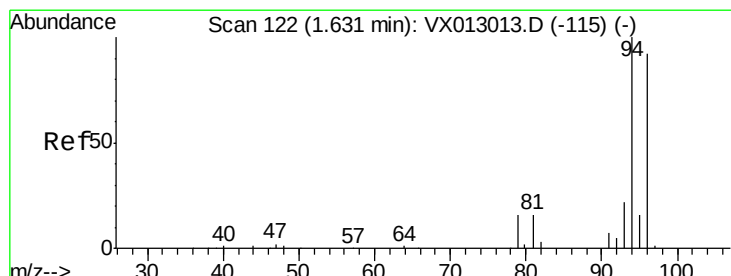
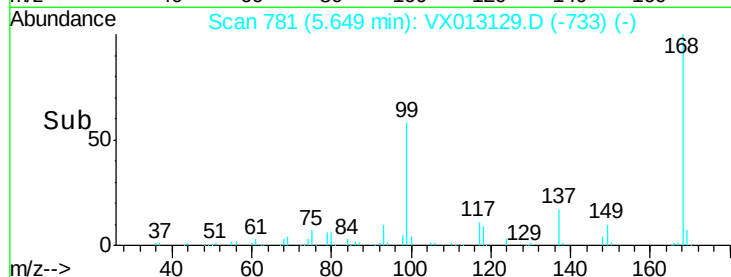
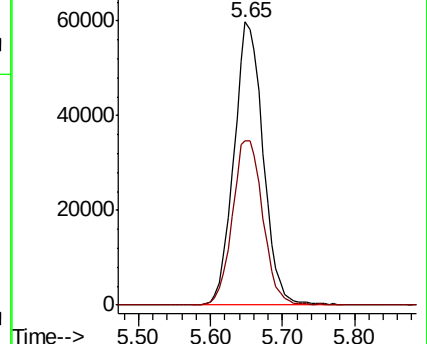
168 100

99 58.2 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.499 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.03 min

Lab File: VX013129.D

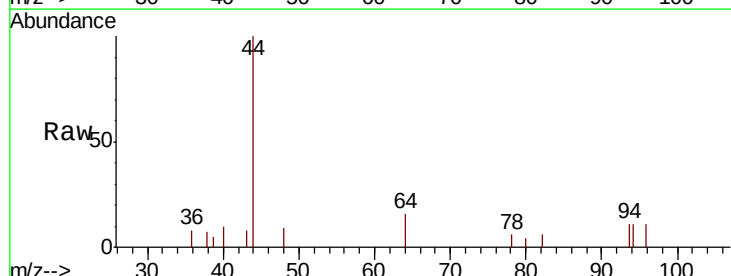
Acq: 18 Oct 2019 15:58

Tgt Ion: 94 Resp: 399

Ion Ratio Lower Upper

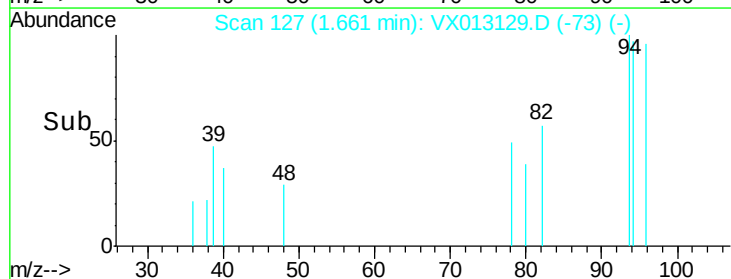
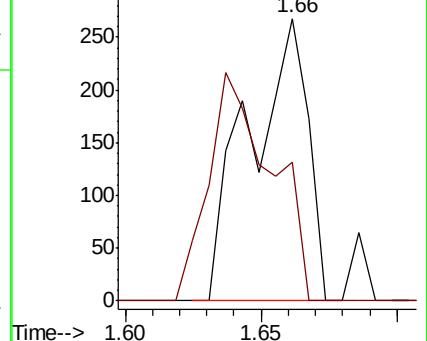
94 100

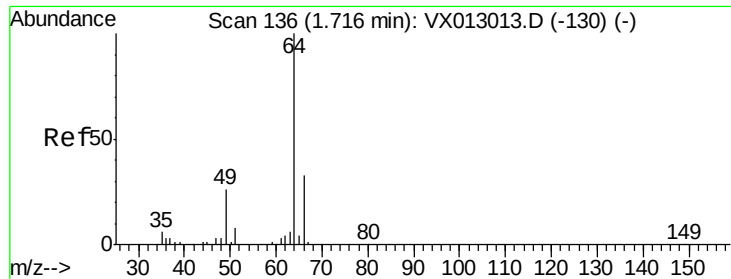
96 48.9 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.716 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

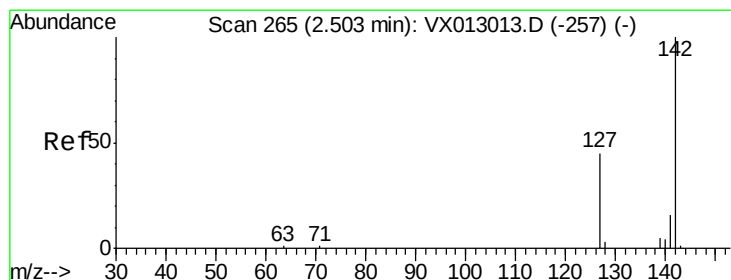
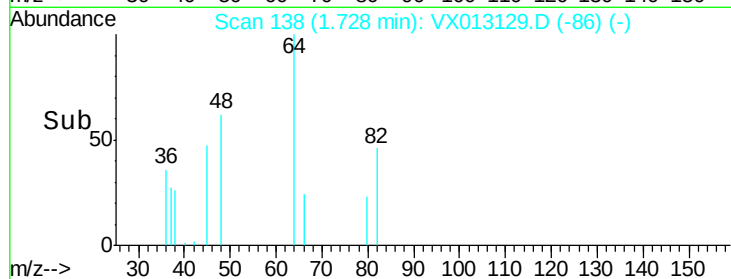
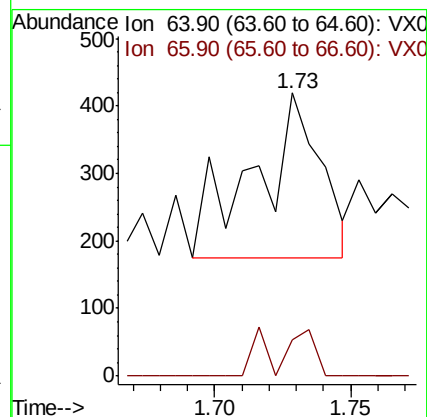
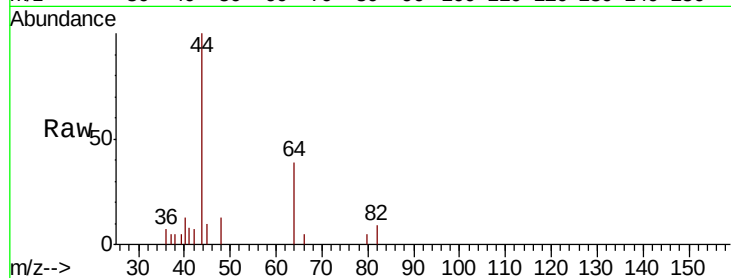
MW-309-SRI4

Tot Ion: 64 Resp: 413

Ion Ratio Lower Upper

64 100

66 21.7 25.6 38.4#



#10

Methyl Iodide

Concen: 5.225 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

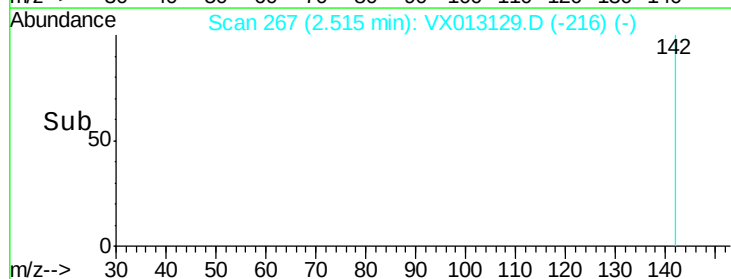
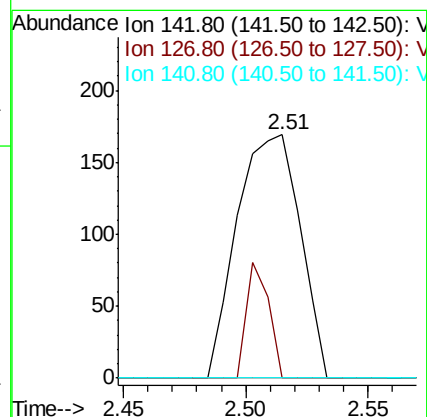
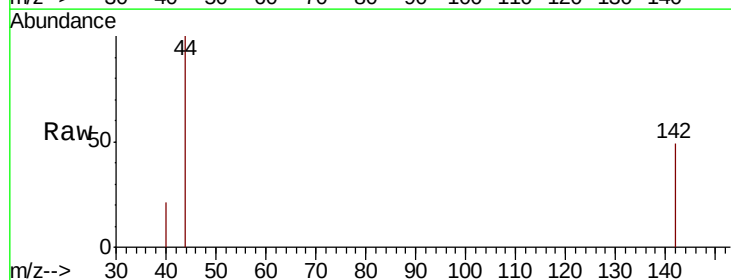
Tgt Ion: 142 Resp: 303

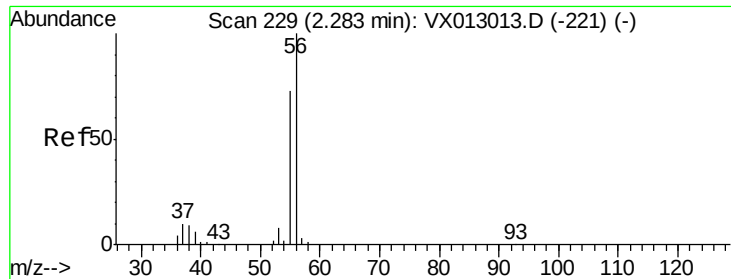
Ion Ratio Lower Upper

142 100

127 16.5 34.9 52.3#

141 0.0 11.6 17.4#

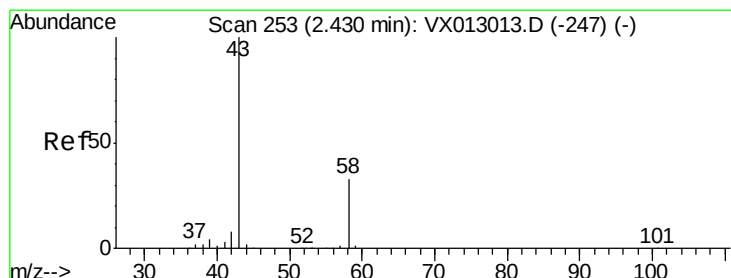
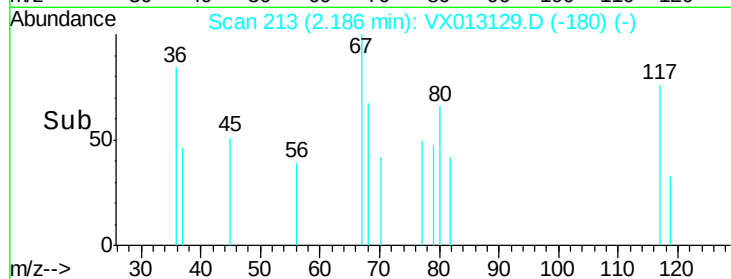
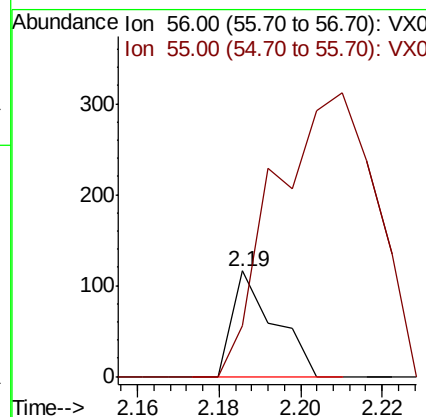
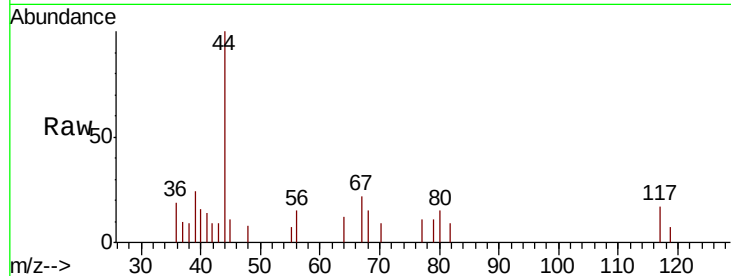




#13
Acrolein
Concen: 0.210 ug/l
RT: 2.19 min Scan# 213
Delta R.T. -0.10 min
Lab File: VX013129.D
Acq: 18 Oct 2019 15:58

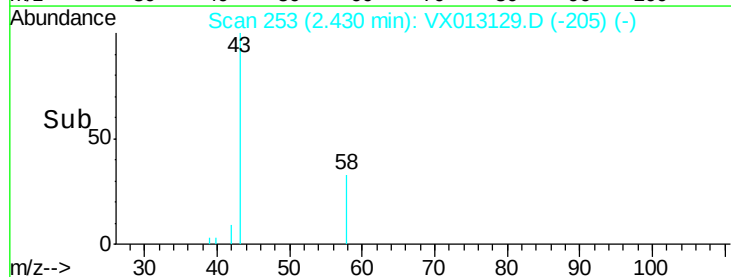
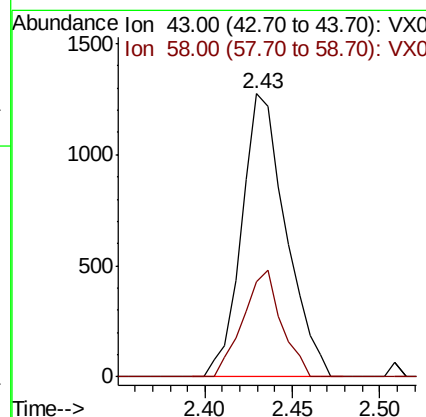
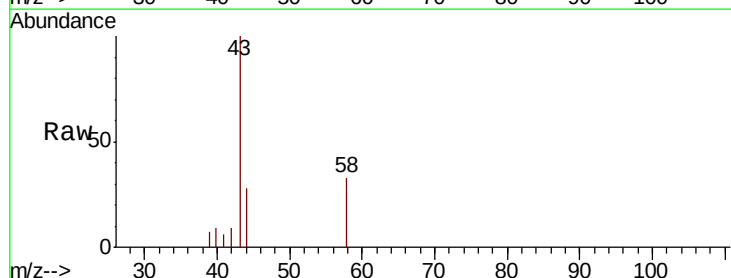
Instrument :
MSVOA_X
ClientSampleId :
MW-309-SRI4

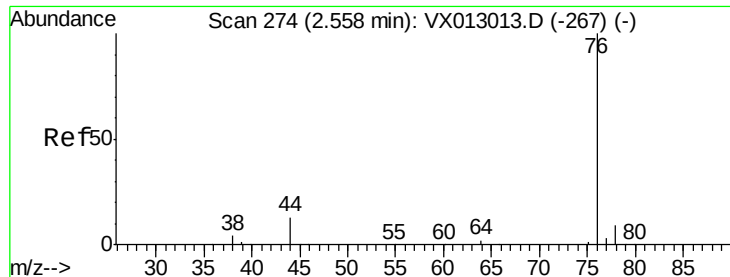
Tot Ion: 56 Resp: 83
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#



#16
Acetone
Concen: 2.027 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX013129.D
Acq: 18 Oct 2019 15:58

Tgt Ion: 43 Resp: 2245
Ion Ratio Lower Upper
43 100
58 33.4 25.4 38.2





#17

Carbon Disulfide

Concen: 0.664 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

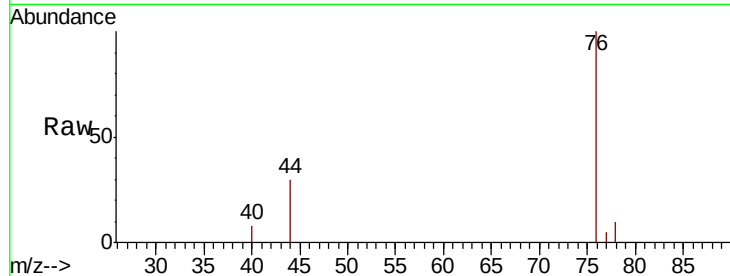
MW-309-SRI4

Tot Ion: 76 Resp: 3215

Ion Ratio Lower Upper

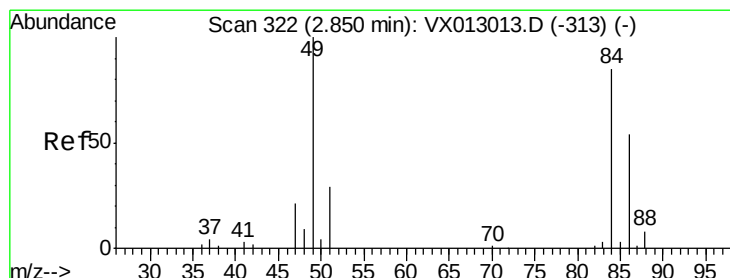
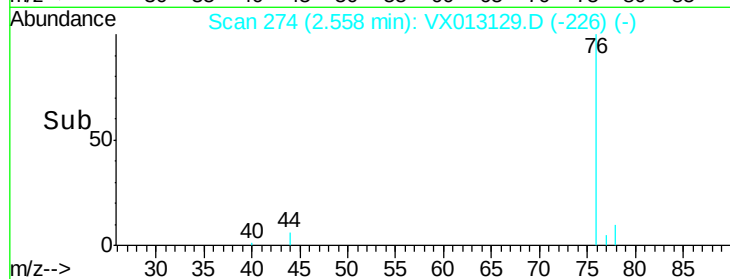
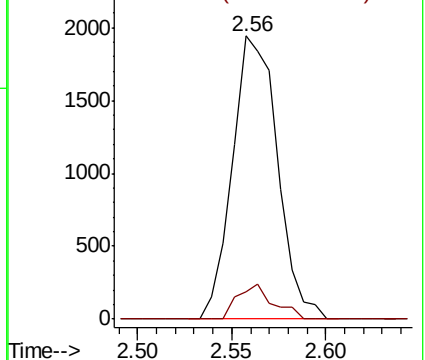
76 100

78 9.8 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.234 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Tgt Ion: 84 Resp: 477

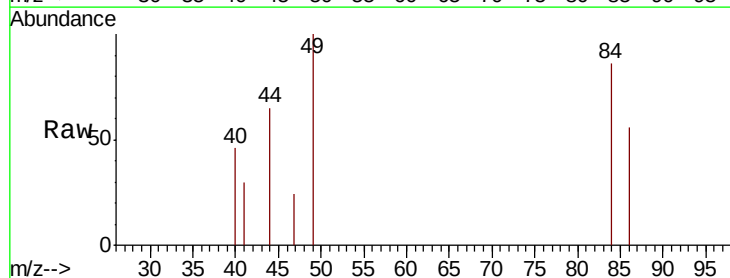
Ion Ratio Lower Upper

84 100

49 116.4 96.6 144.8

51 0.0 30.7 46.1#

86 64.9 51.0 76.6

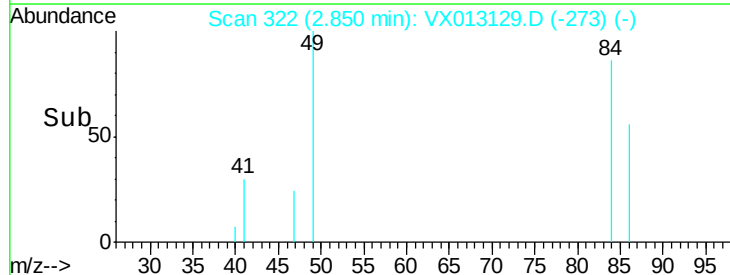
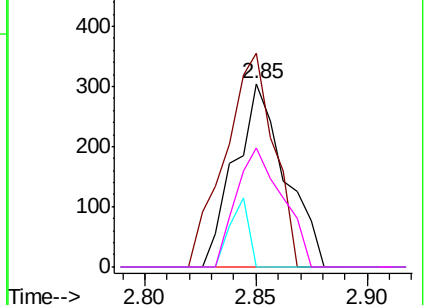


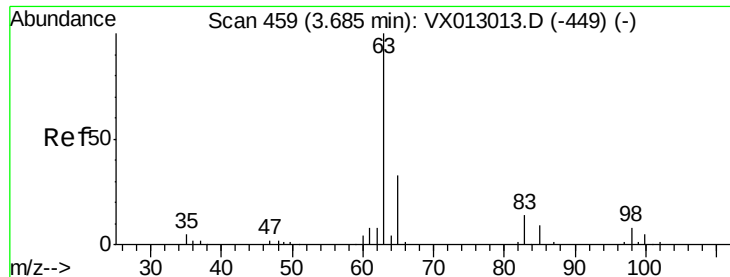
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#24

1,1-Dichloroethane

Concen: 0.216 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

MW-309-SRI4

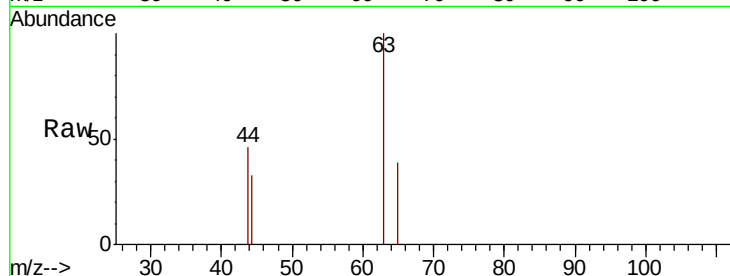
Tot Ion: 63 Resp: 704

Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.5#

100 0.0 2.3 6.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

3.69

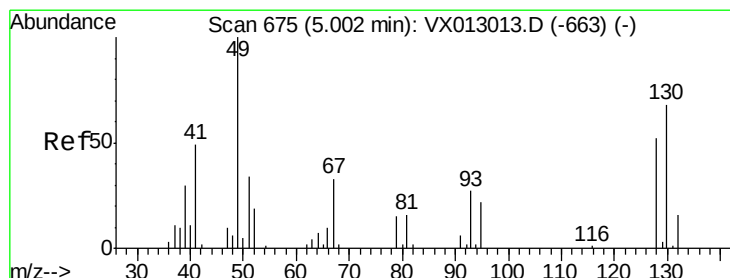
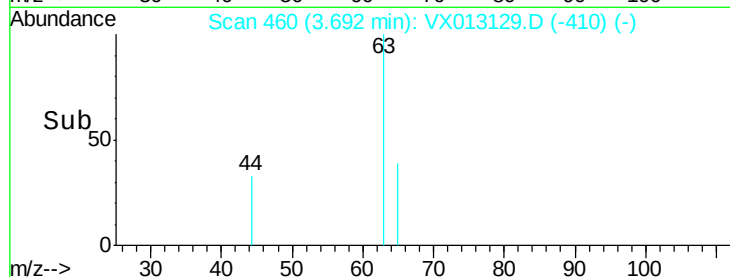
300

200

100

0

Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.18 min Scan# 704

Delta R.T. 0.17 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

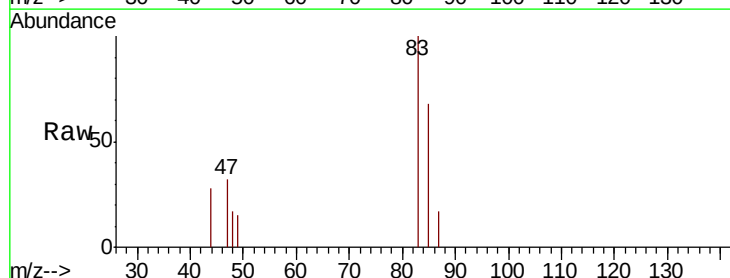
Tgt Ion: 49 Resp: 61

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 62.1 93.1#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

120

100

80

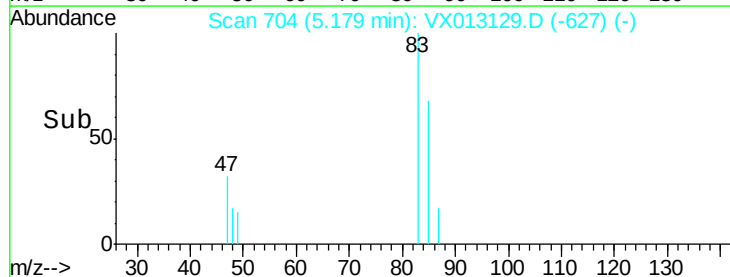
60

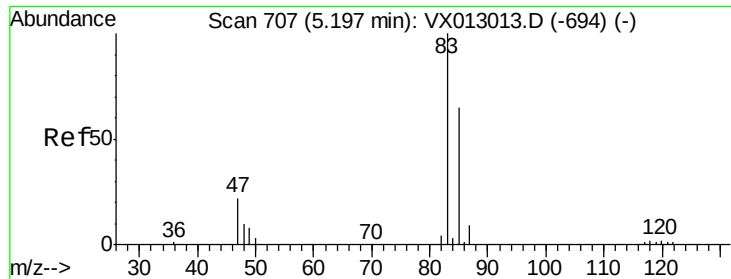
40

20

0

Time-->

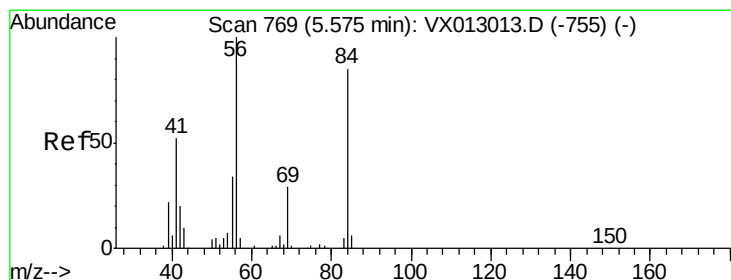
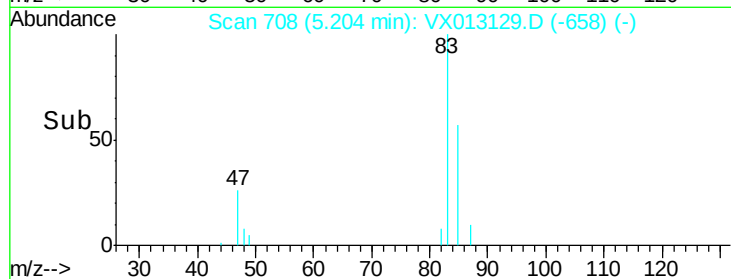
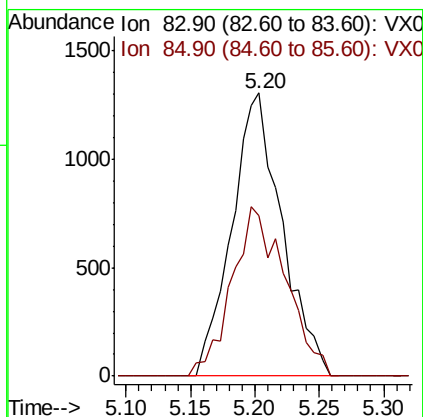
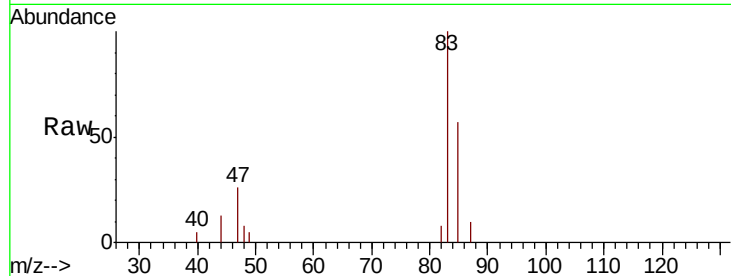




#30
Chloroform
Concen: 1.054 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.01 min
Lab File: VX013129.D
Acq: 18 Oct 2019 15:58

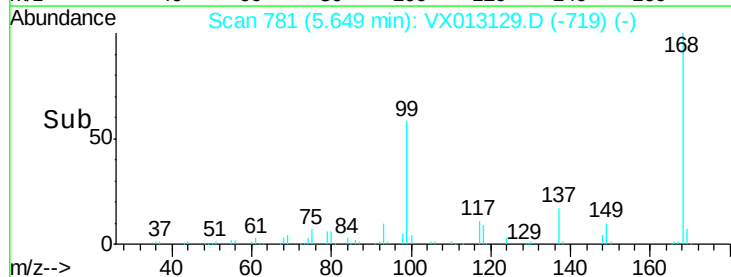
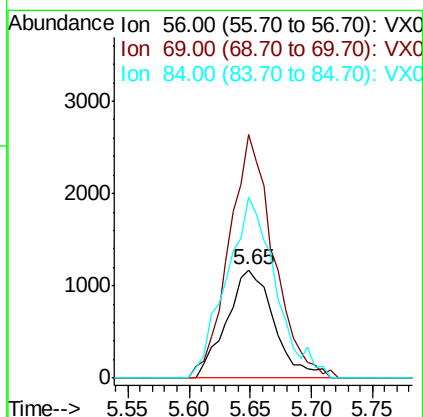
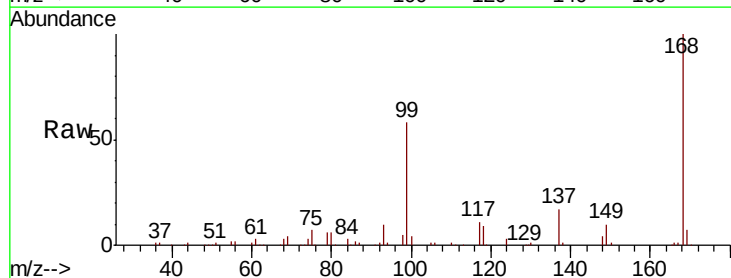
Instrument :
MSVOA_X
ClientSampled :
MW-309-SRI4

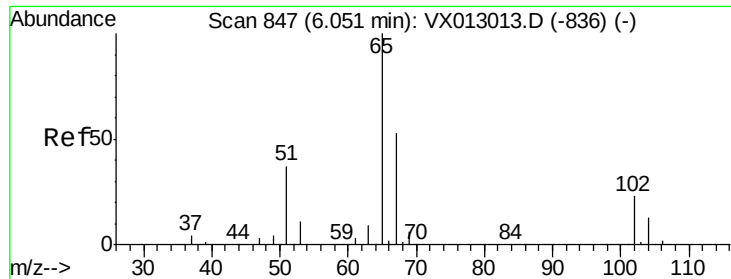
Tot Ion: 83 Resp: 3527
Ion Ratio Lower Upper
83 100
85 56.7 51.5 77.3



#31
Cyclohexane
Concen: 1.039 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013129.D
Acq: 18 Oct 2019 15:58

Tgt Ion: 56 Resp: 3169
Ion Ratio Lower Upper
56 100
69 224.6 25.2 37.8#
84 166.5 71.3 106.9#

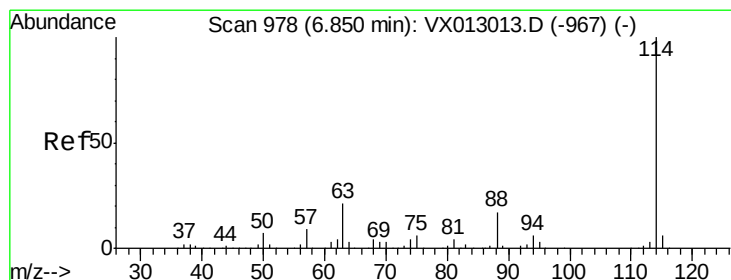
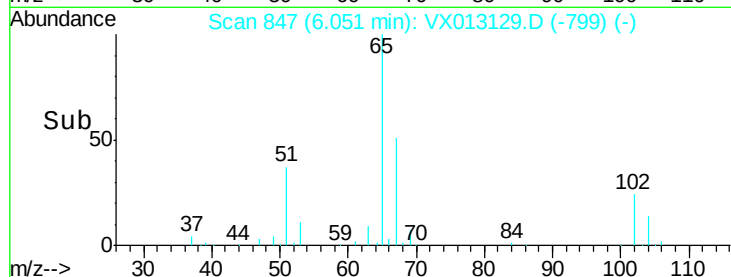
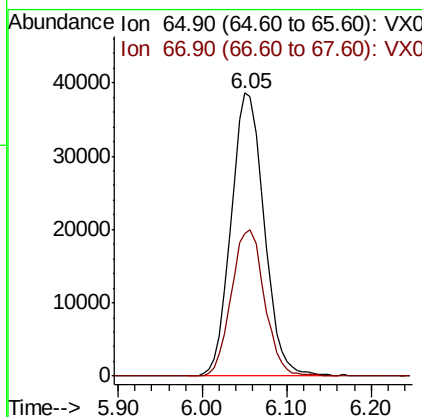
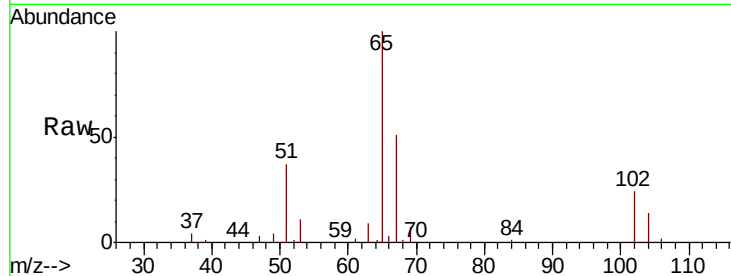




#33
 1,2-Dichloroethane-d4
 Concen: 48.844 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013129.D
 Acq: 18 Oct 2019 15:58

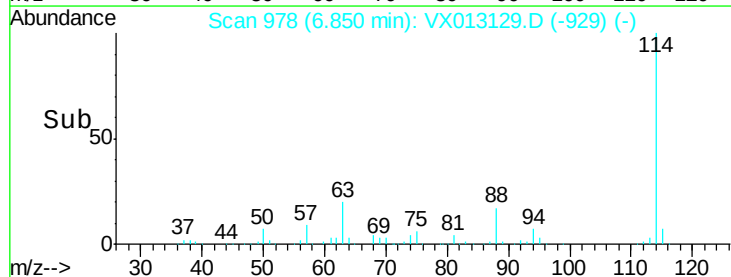
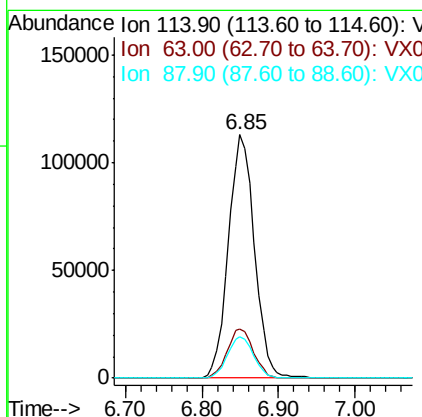
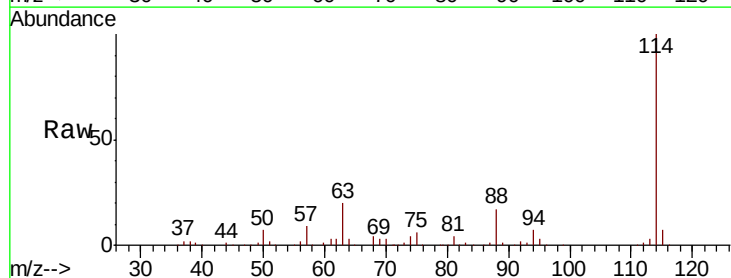
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-309-SRI4

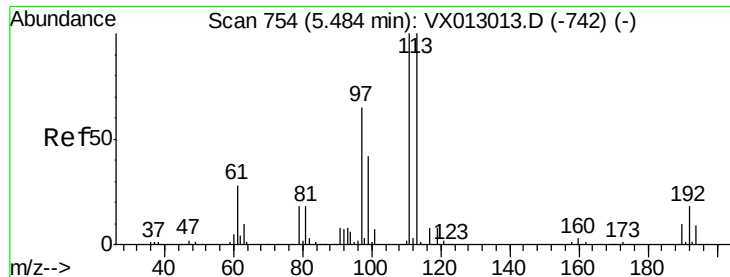
Tot Ion: 65 Resp: 102632
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013129.D
 Acq: 18 Oct 2019 15:58

Tgt Ion: 114 Resp: 266345
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.8
 88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 53.016 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

MW-309-SRI4

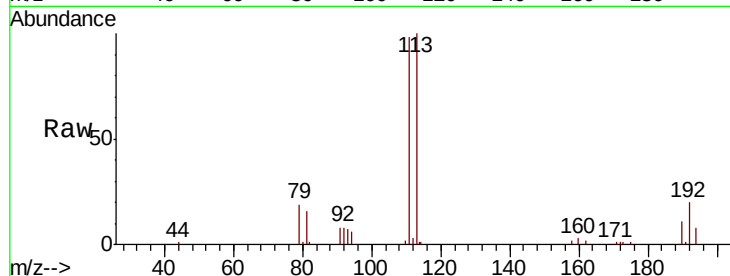
Tot Ion:113 Resp: 81044

Ion Ratio Lower Upper

113 100

111 103.5 83.2 124.8

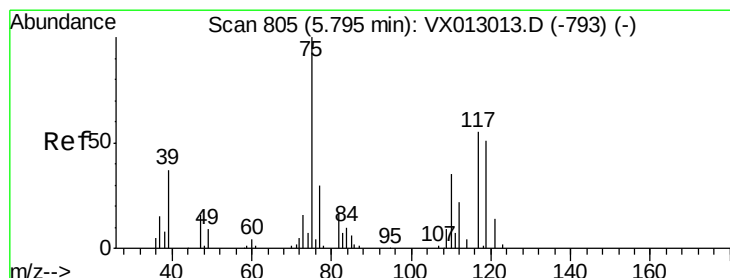
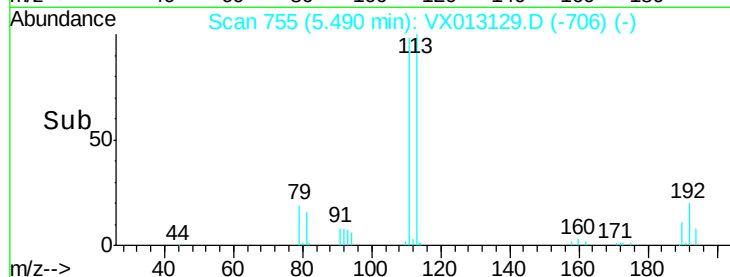
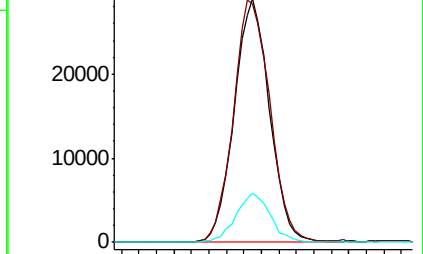
192 19.7 15.4 23.2



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



#36

1,1-Dichloropropene

Concen: 5.451 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

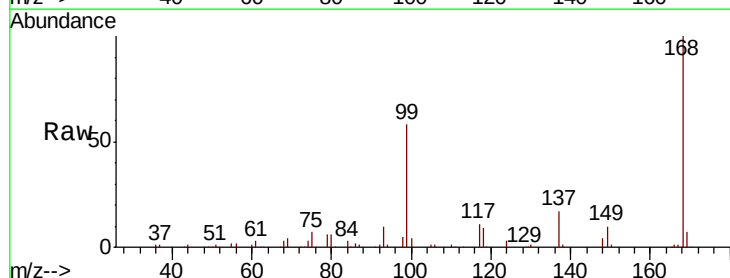
Tgt Ion: 75 Resp: 12764

Ion Ratio Lower Upper

75 100

110 9.4 17.6 52.9#

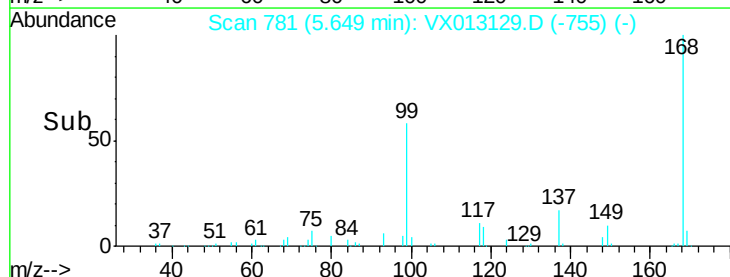
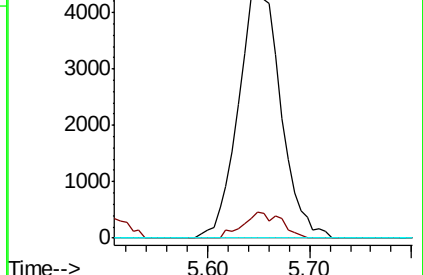
77 0.0 24.4 36.6#

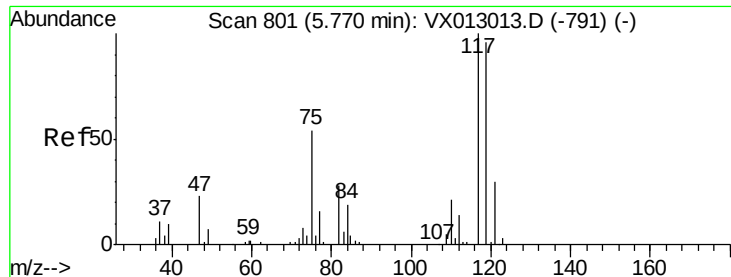


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

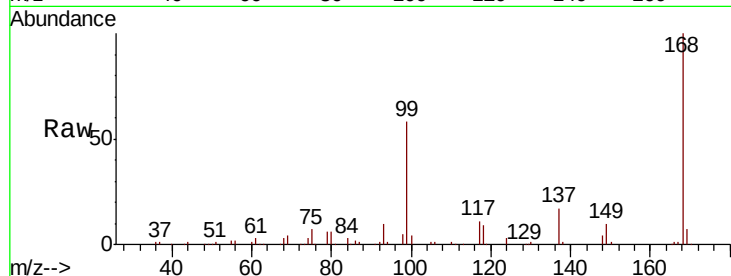




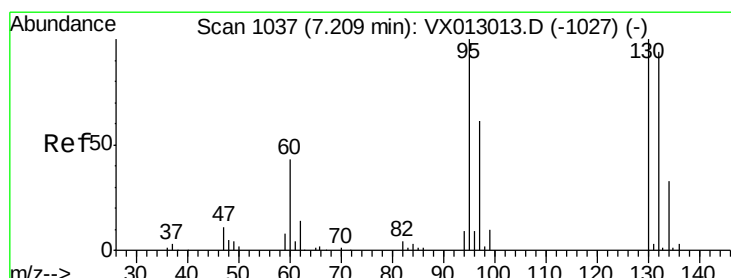
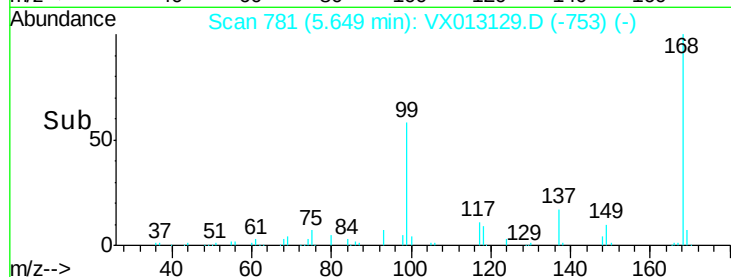
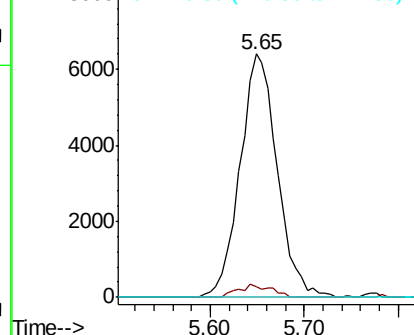
#38
Carbon Tetrachloride
Concen: 7.734 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013129.D
Acq: 18 Oct 2019 15:58

Instrument :
MSVOA_X
ClientSampleId :
MW-309-SRI4

Tot Ion:117 Resp: 17629
Ion Ratio Lower Upper
117 100
119 4.6 74.5 111.7#
121 0.0 24.2 36.4#

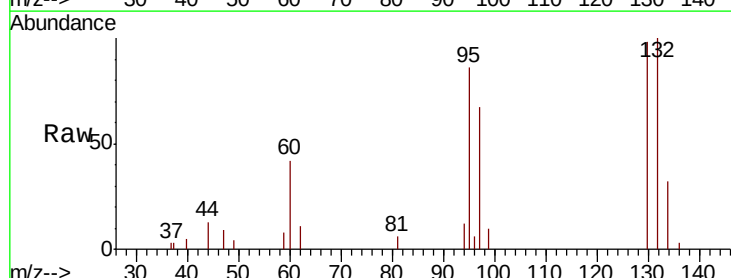


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

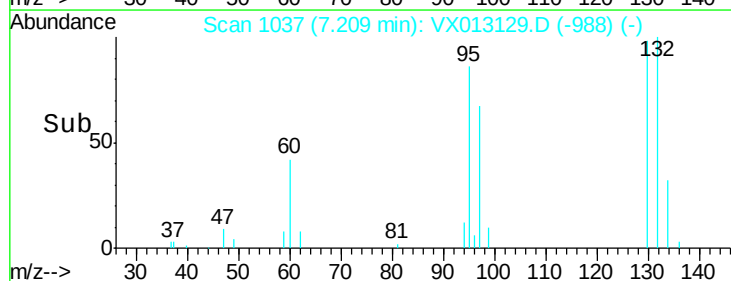
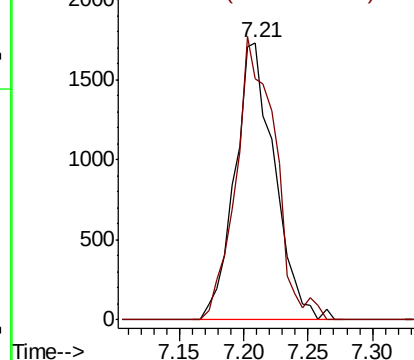


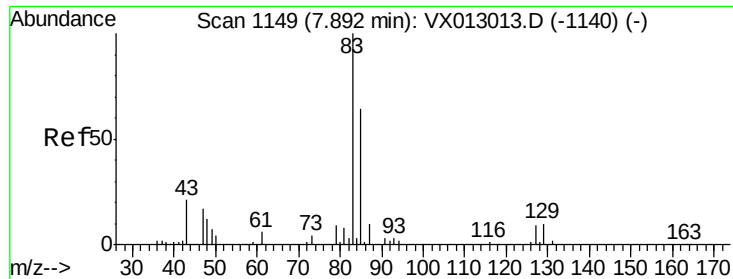
#44
Trichloroethene
Concen: 1.930 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VX013129.D
Acq: 18 Oct 2019 15:58

Tgt Ion:130 Resp: 3701
Ion Ratio Lower Upper
130 100
95 87.1 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#47

Bromodichloromethane

Concen: 0.304 ug/l

RT: 7.90 min Scan# 1151

Delta R.T. 0.01 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

MW-309-SRI4

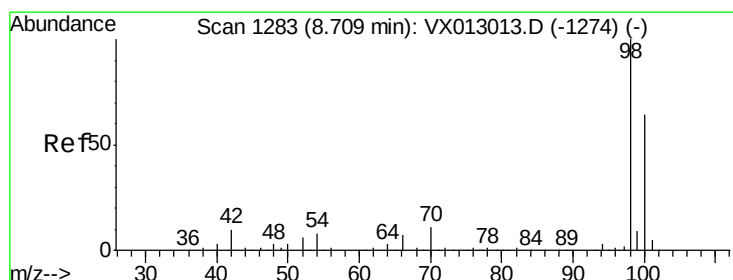
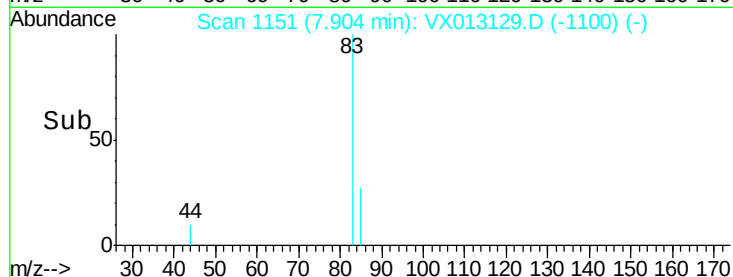
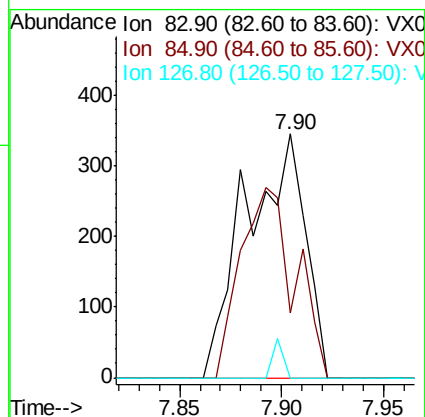
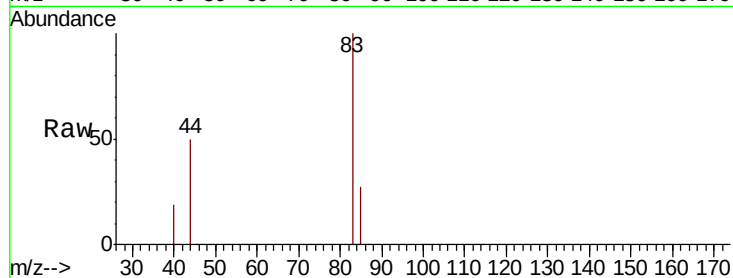
Tot Ion: 83 Resp: 696

Ion Ratio Lower Upper

83 100

85 26.7 52.4 78.6#

127 0.0 6.6 10.0#



#50

Toluene-d8

Concen: 52.627 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013129.D

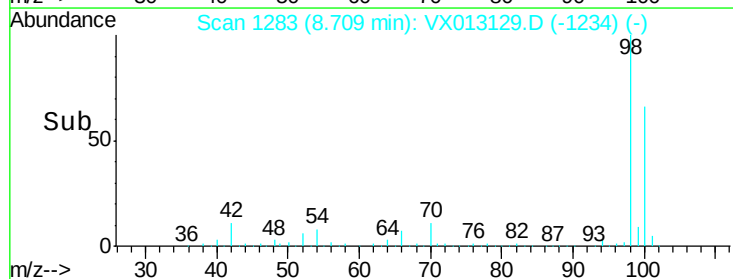
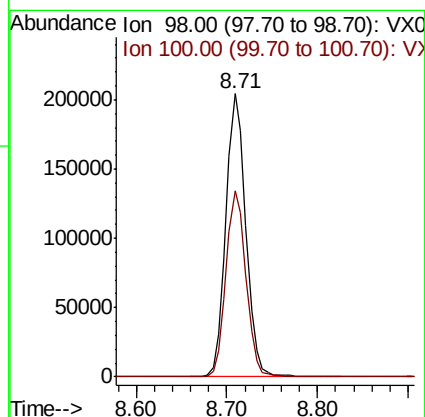
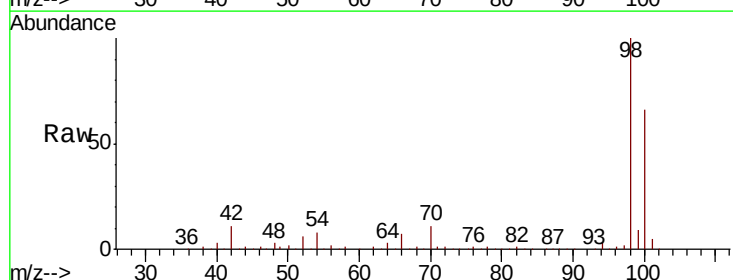
Acq: 18 Oct 2019 15:58

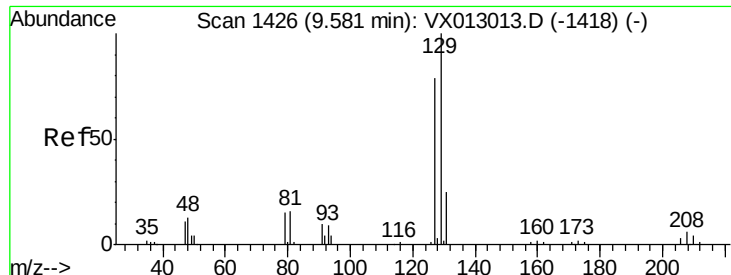
Tgt Ion: 98 Resp: 313776

Ion Ratio Lower Upper

98 100

100 65.9 53.4 80.2





#60

Dibromochloromethane

Concen: 2.214 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.00 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

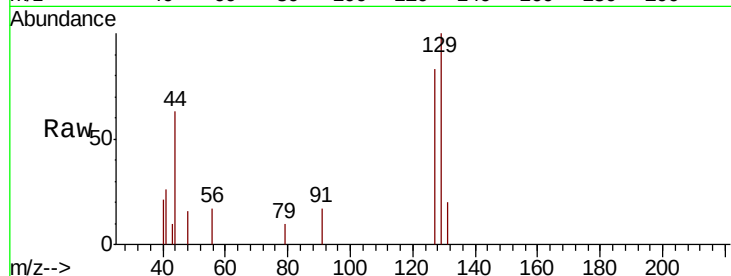
MW-309-SRI4

Tot Ion:129 Resp: 722

Ion Ratio Lower Upper

129 100

127 69.8 38.9 116.7



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.58

500

400

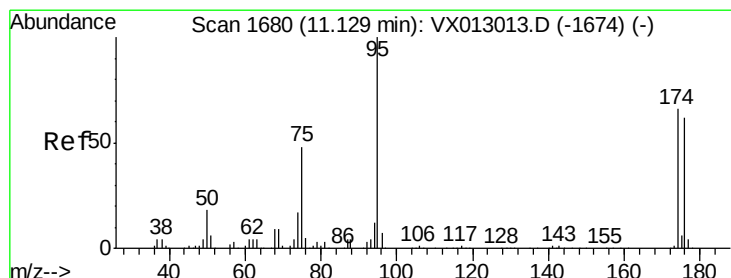
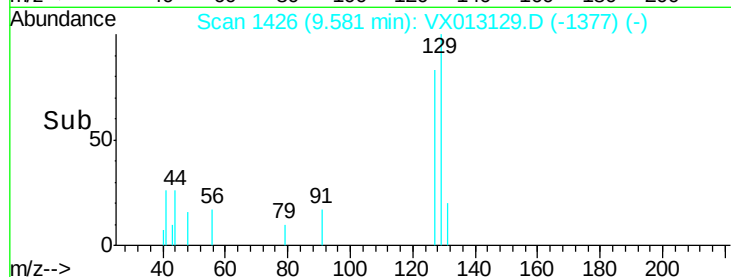
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.855 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

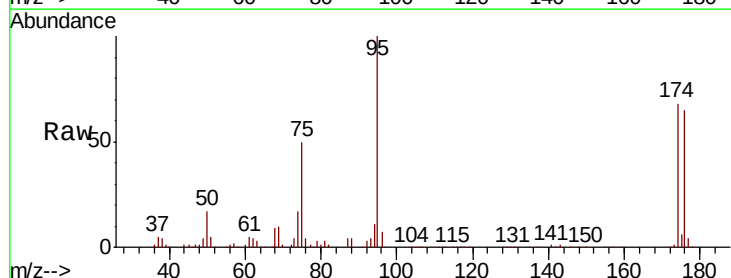
Tgt Ion: 95 Resp: 103913

Ion Ratio Lower Upper

95 100

174 74.0 0.0 143.4

176 73.2 0.0 136.0



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

100000

80000

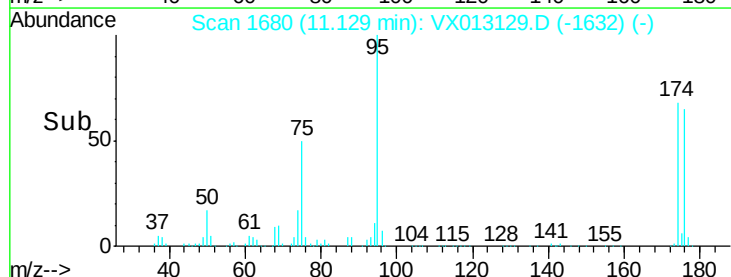
60000

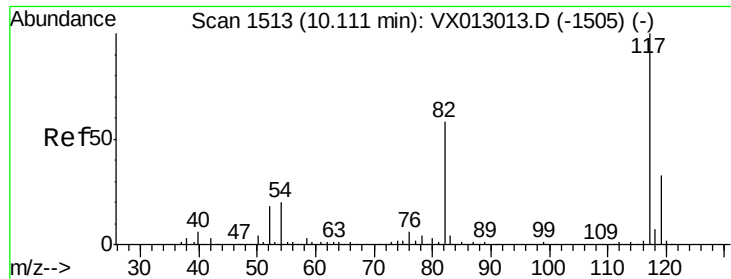
40000

20000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

MW-309-SRI4

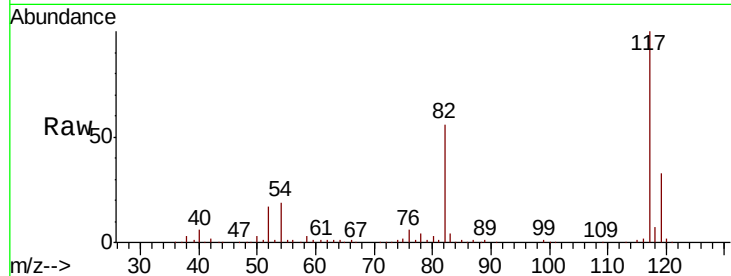
Tot Ion:117 Resp: 223090

Ion Ratio Lower Upper

117 100

82 56.2 44.1 66.1

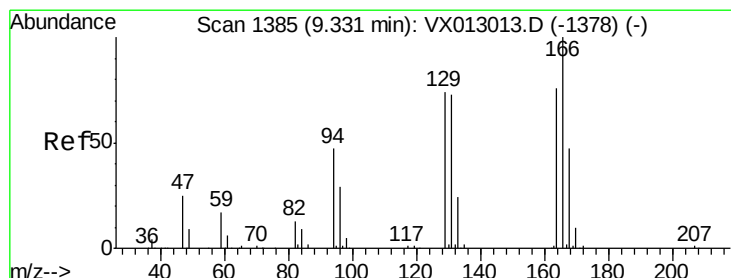
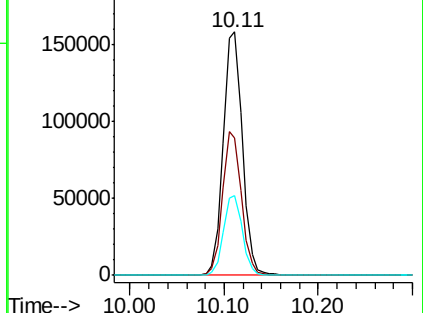
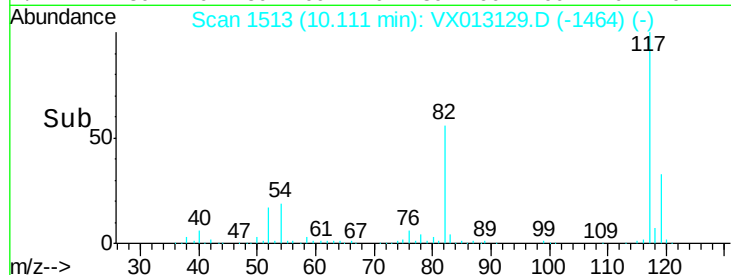
119 32.9 25.8 38.8



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: 6.310 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. 0.01 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Tgt Ion:164 Resp: 9764

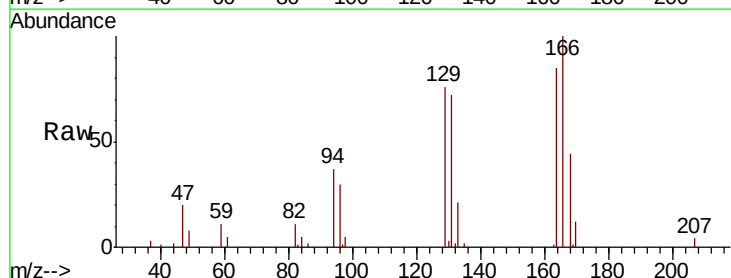
Ion Ratio Lower Upper

164 100

166 117.7 96.9 145.3

129 89.5 77.9 116.9

131 84.7 72.7 109.1

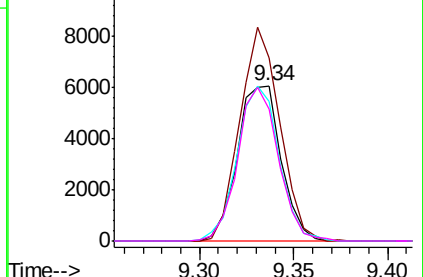
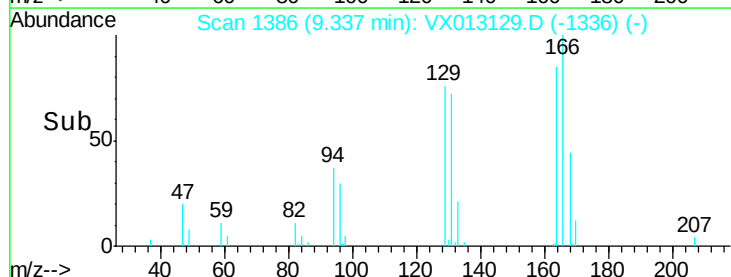


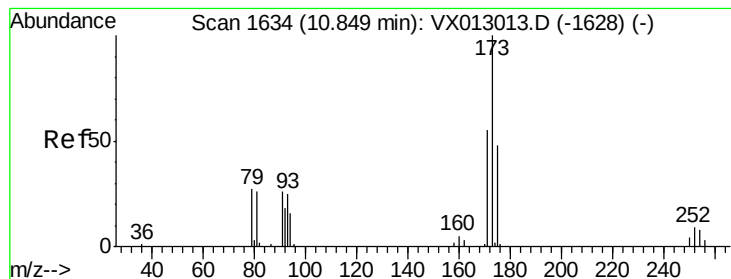
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 3.295 ug/l

RT: 10.85 min Scan# 1634

Delta R.T. -0.01 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Instrument :

MSVOA_X

ClientSampled :

MW-309-SRI4

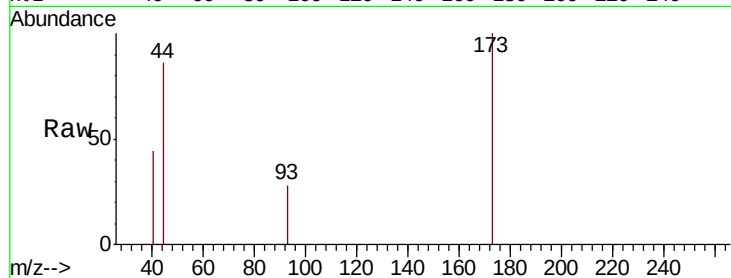
Tot Ion:173 Resp: 226

Ion Ratio Lower Upper

173 100

175 0.0 24.1 72.3#

254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

10.85

200

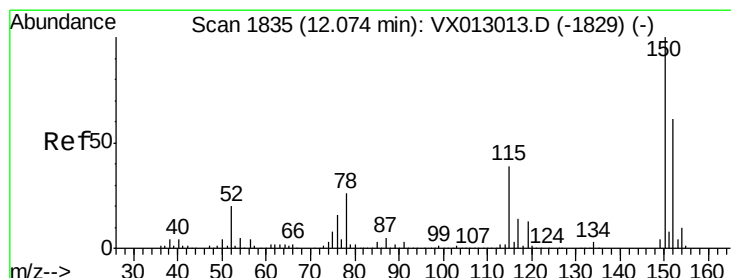
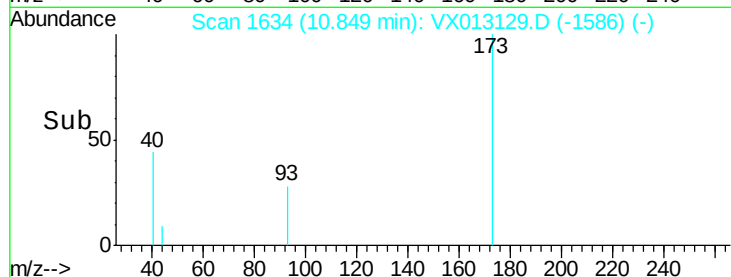
150

100

50

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

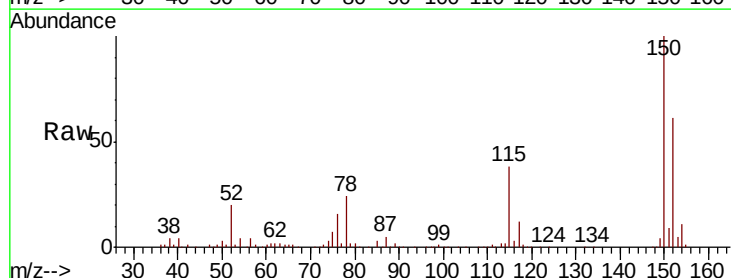
Tgt Ion:152 Resp: 88478

Ion Ratio Lower Upper

152 100

115 62.7 44.5 133.5

150 158.9 0.0 353.4



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

12.07

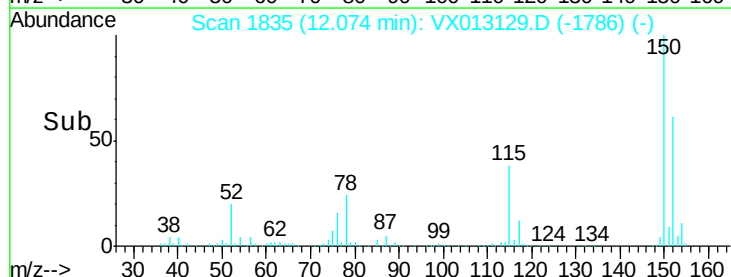
150000

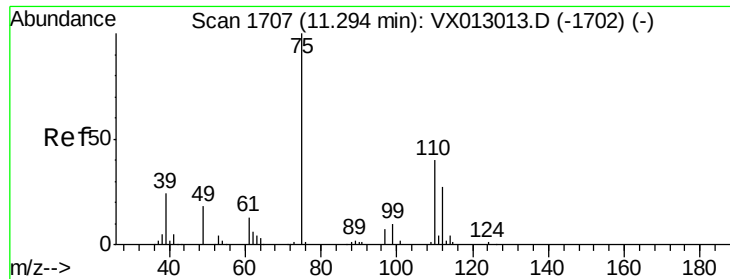
100000

50000

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 26.209 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

Instrument :

MSVOA_X

ClientSampleId :

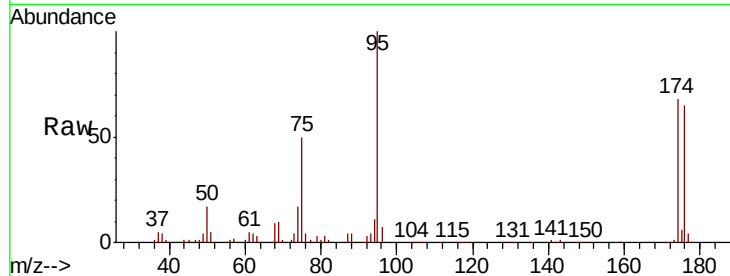
MW-309-SRI4

Tot Ion: 75 Resp: 51433

Ion Ratio Lower Upper

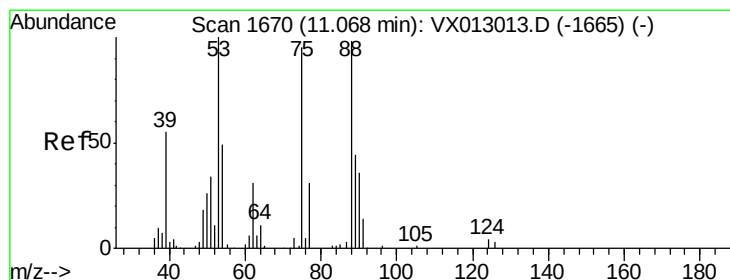
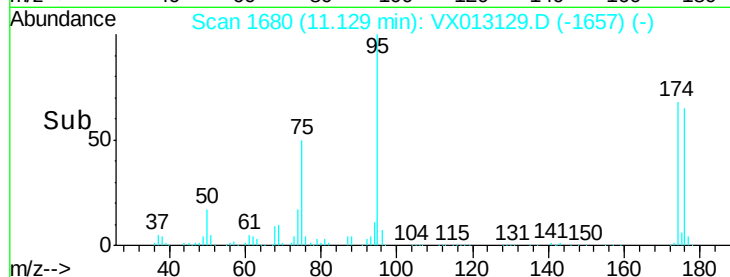
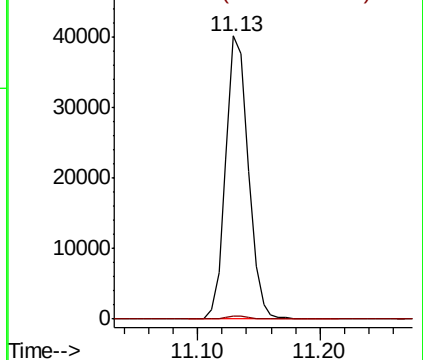
75 100

77 1.2 22.9 68.8#



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: 65.974 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013129.D

Acq: 18 Oct 2019 15:58

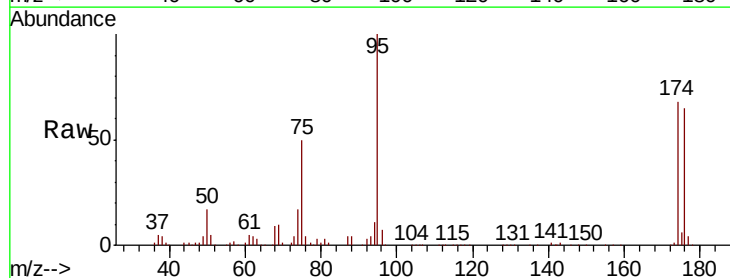
Tgt Ion: 75 Resp: 51433

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



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

