

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012864.D
 Acq On : 08 Oct 2019 02:29
 Operator : JC/SP
 Sample : K5232-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 08 11:16:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	182936	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	310184	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	262535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	107919	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	121408	45.58	ug/l	0.00
Spiked Amount			Recovery	=	91.16%	
35) Dibromofluoromethane	5.49	113	91542	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	8.71	98	365378	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	
62) 4-Bromofluorobenzene	11.14	95	129841	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	

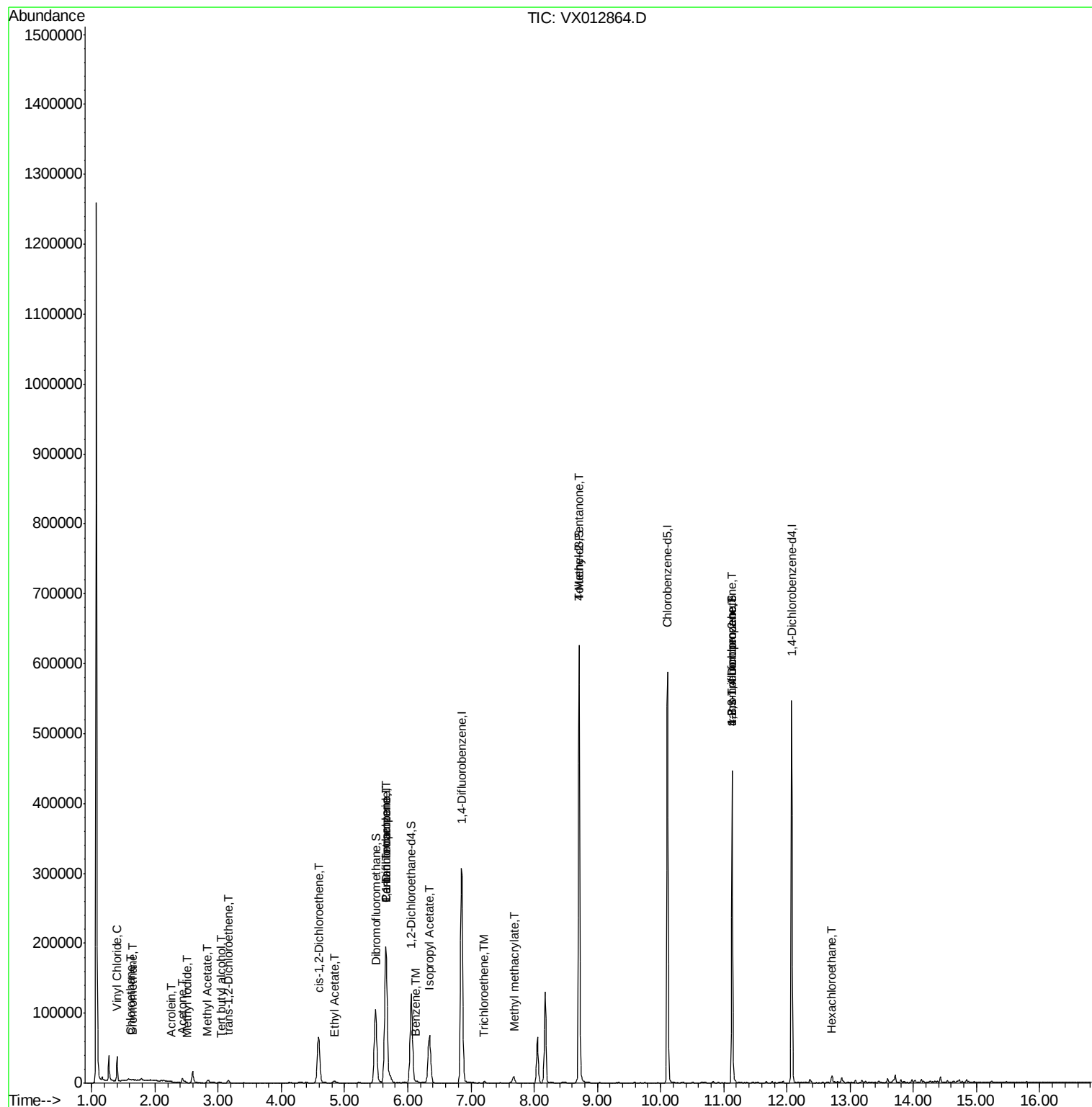
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	20457	8.709	ug/l	93
5) Bromomethane	1.65	94	255	0.276	ug/l #	78
6) Chloroethane	1.62	64	688	0.434	ug/l #	60
10) Methyl Iodide	2.51	142	92	4.992	ug/l #	35
11) Tert butyl alcohol	3.04	59	263	0.395	ug/l #	72
13) Acrolein	2.25	56	41	10.339	ug/l #	1
16) Acetone	2.44	43	6316	4.476	ug/l	93
18) Methyl Acetate	2.83	43	3277	0.986	ug/l #	54
21) trans-1,2-Dichloroethene	3.16	96	1228	0.564	ug/l	89
27) cis-1,2-Dichloroethene	4.59	96	42378	16.761	ug/l	83
36) 1,1-Dichloropropene	5.65	75	15075	5.042	ug/l #	52
37) Ethyl Acetate	4.84	43	5370	1.536	ug/l #	75
38) Carbon Tetrachloride	5.65	117	19259	6.341	ug/l #	15
40) Benzene	6.14	78	2617	0.297	ug/l #	72
43) Isopropyl Acetate	6.34	43	16863	2.885	ug/l #	62
44) Trichloroethene	7.22	130	976	0.434	ug/l	98
48) Methyl methacrylate	7.68	41	2972	1.060	ug/l #	37
51) 4-Methyl-2-Pentanone	8.71	43	2113	0.586	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	64158	22.474	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	64158	64.406	ug/l #	8
90) Hexachloroethane	12.70	117	295	0.222	ug/l #	17

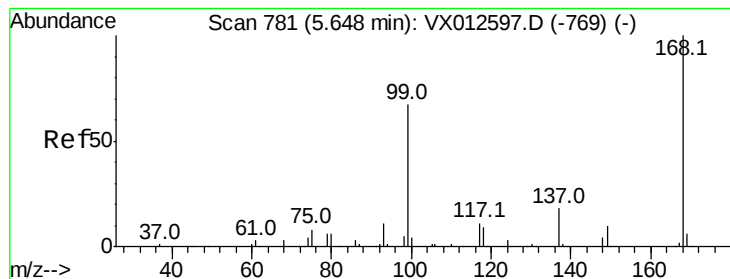
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX100719\
Data File : VX012864.D
Acq On : 08 Oct 2019 02:29
Operator : JC/SP
Sample : K5232-03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 40 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Oct 08 11:16:58 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

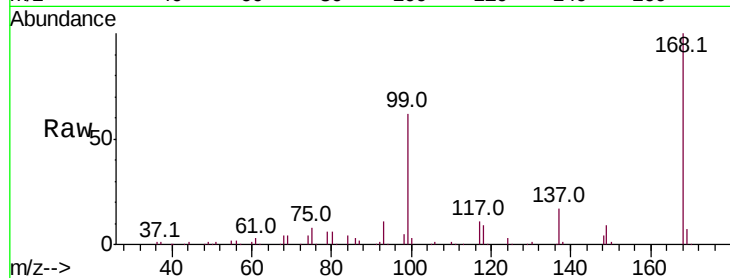
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 182936

Ion Ratio Lower Upper

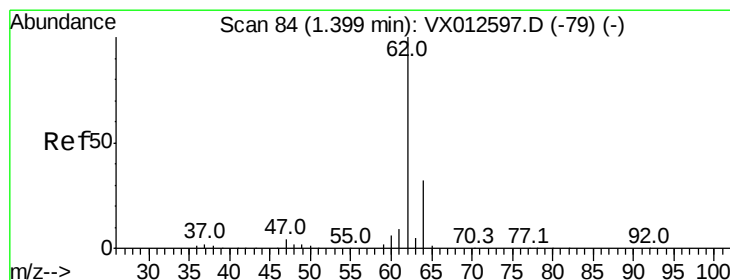
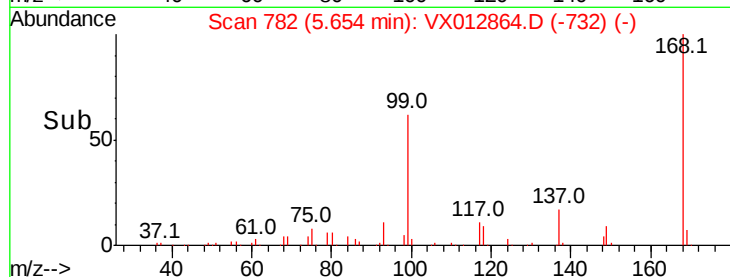
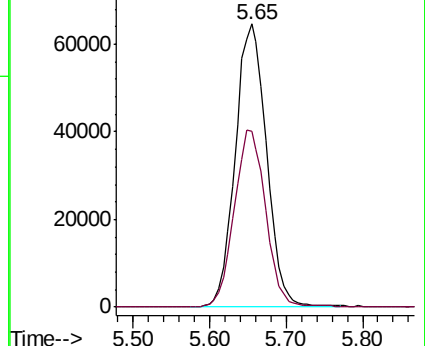
168 100

99 62.0 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 8.709 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012864.D

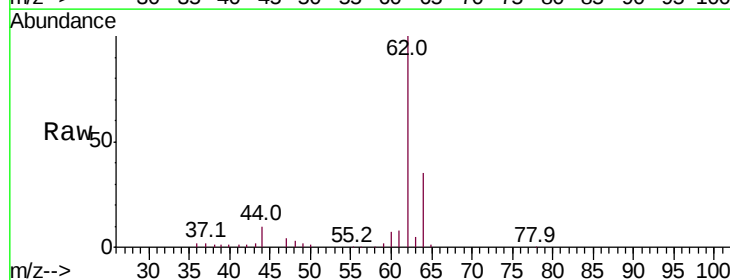
Acq: 08 Oct 2019 02:29

Tgt Ion: 62 Resp: 20457

Ion Ratio Lower Upper

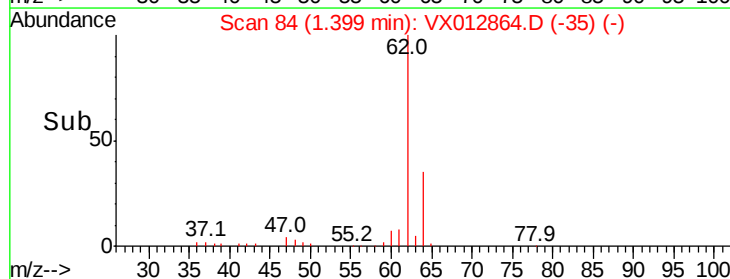
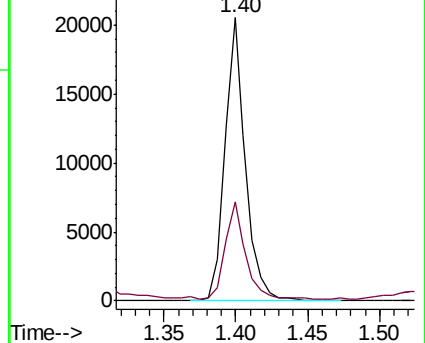
62 100

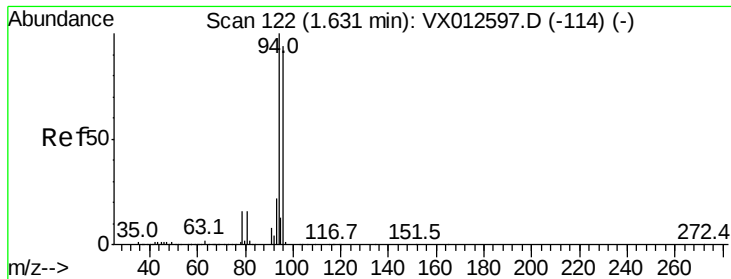
64 34.1 24.2 36.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.276 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

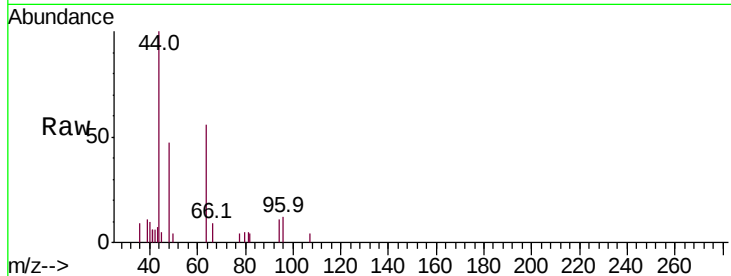
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 255

Ion Ratio Lower Upper

94 100

96 112.0 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

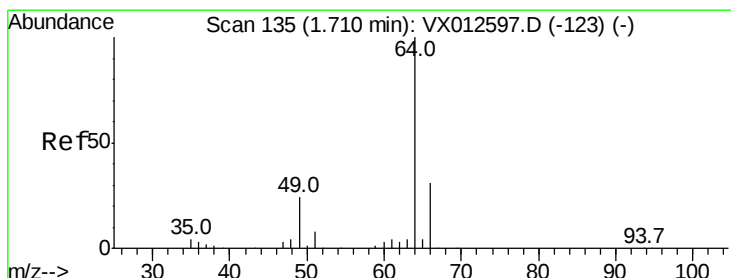
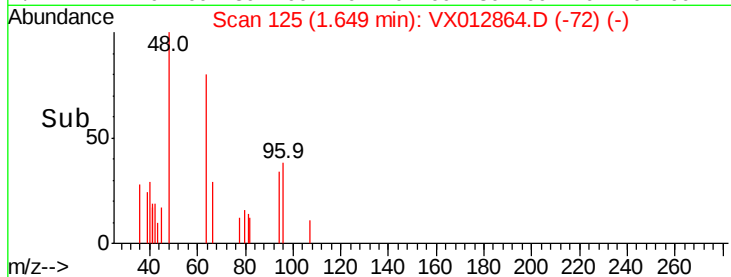
100

50

0

1.60 1.65

Time-->



#6

Chloroethane

Concen: 0.434 ug/l

RT: 1.62 min Scan# 120

Delta R.T. -0.09 min

Lab File: VX012864.D

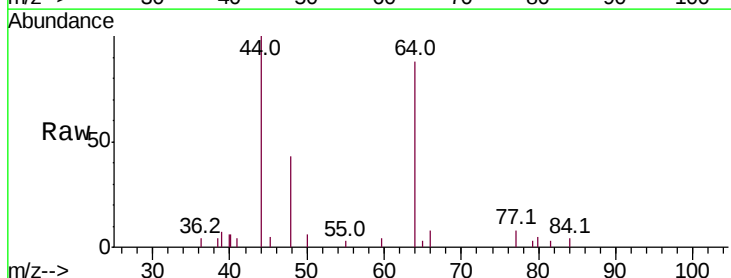
Acq: 08 Oct 2019 02:29

Tgt Ion: 64 Resp: 688

Ion Ratio Lower Upper

64 100

66 8.6 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1500

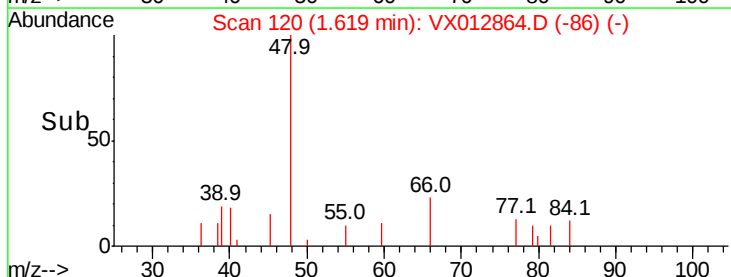
1000

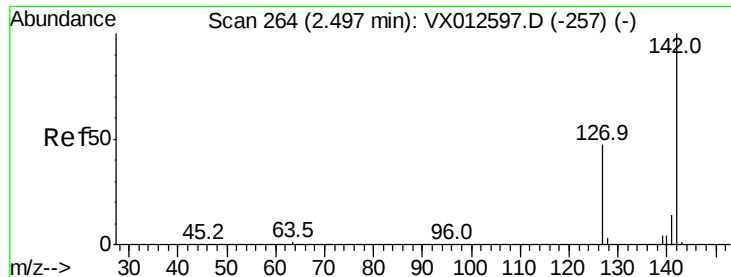
500

0

1.58 1.60 1.62

Time-->

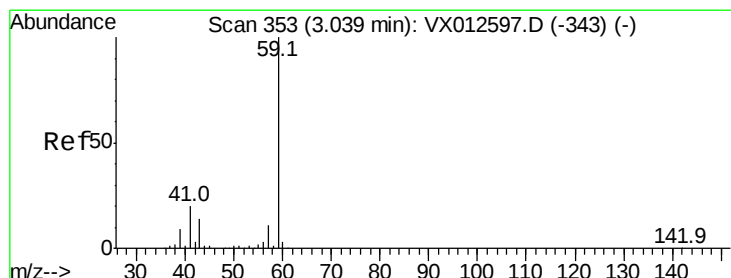
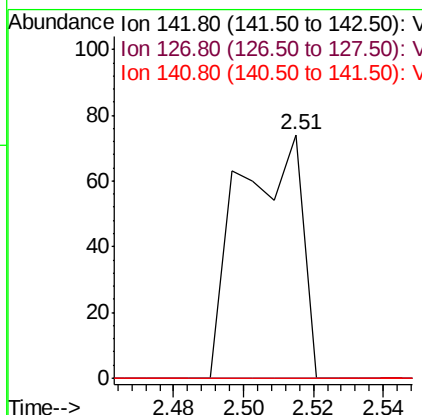
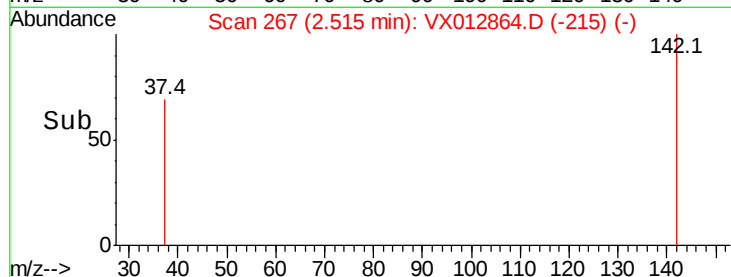
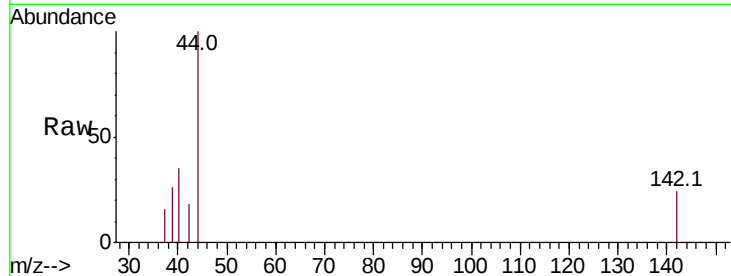




#10
Methyl Iodide
Concen: 4.992 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.02 min
Lab File: VX012864.D
Acq: 08 Oct 2019 02:29

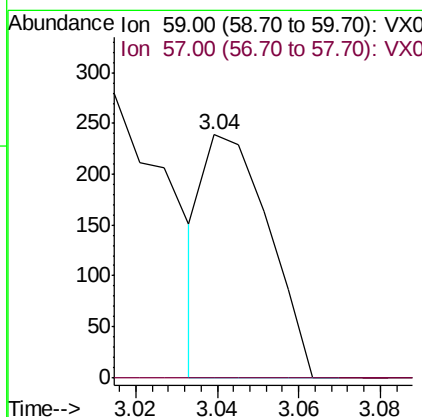
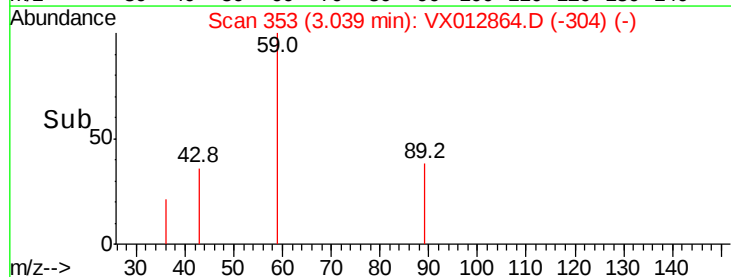
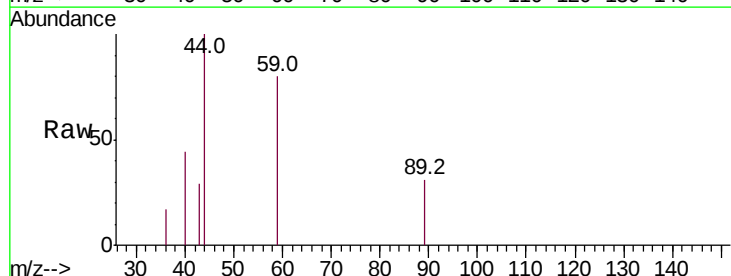
Instrument :
MSVOA_X
ClientSampleId :

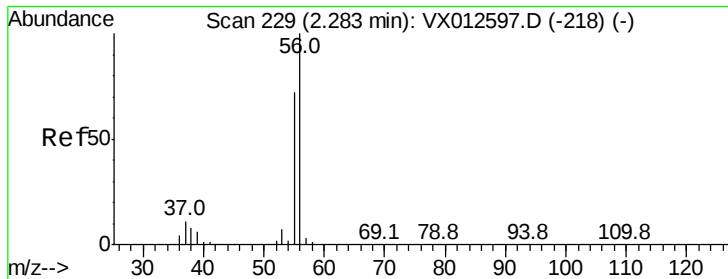
Tot Ion:142 Resp: 92
Ion Ratio Lower Upper
142 100
127 0.0 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 0.395 ug/l
RT: 3.04 min Scan# 353
Delta R.T. 0.00 min
Lab File: VX012864.D
Acq: 08 Oct 2019 02:29

Tgt Ion: 59 Resp: 263
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 10.339 ug/l

RT: 2.25 min Scan# 224

Delta R.T. -0.03 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

Instrument :

MSVOA_X

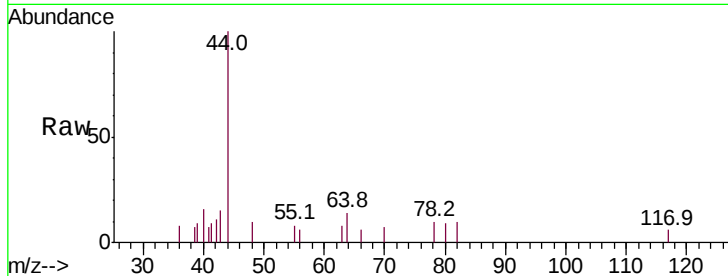
ClientSampleId :

Tot Ion: 56 Resp: 41

Ion Ratio Lower Upper

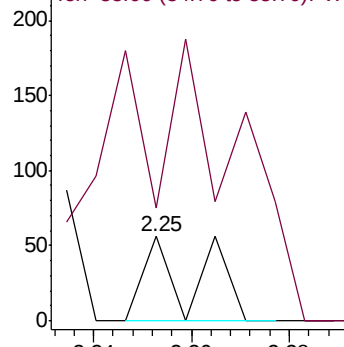
56 100

55 495.1 55.8 83.8#

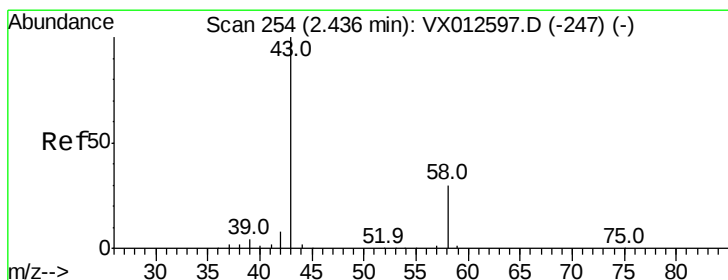
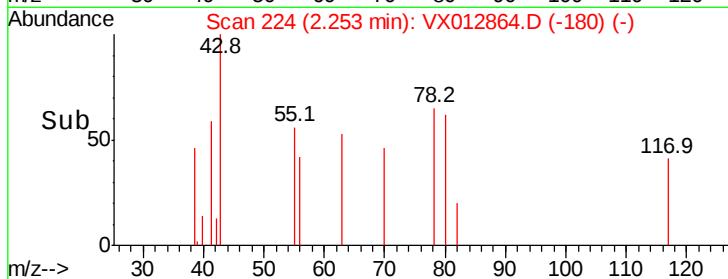


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 4.476 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012864.D

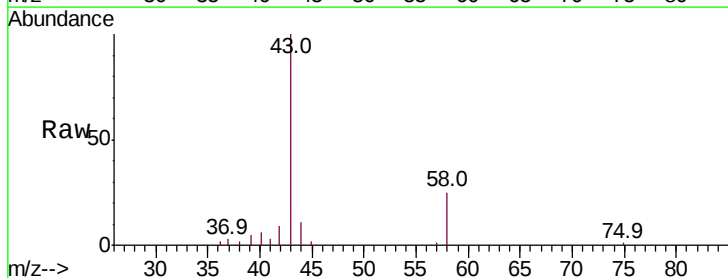
Acq: 08 Oct 2019 02:29

Tgt Ion: 43 Resp: 6316

Ion Ratio Lower Upper

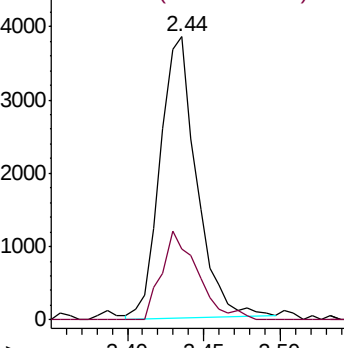
43 100

58 25.2 23.3 34.9

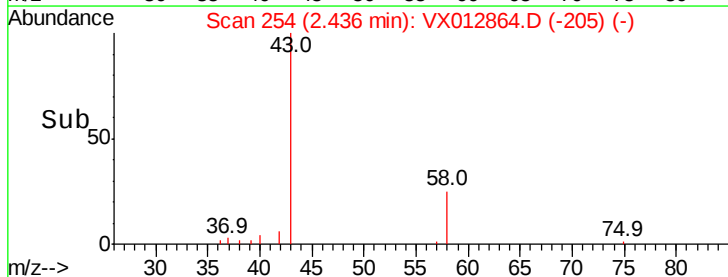


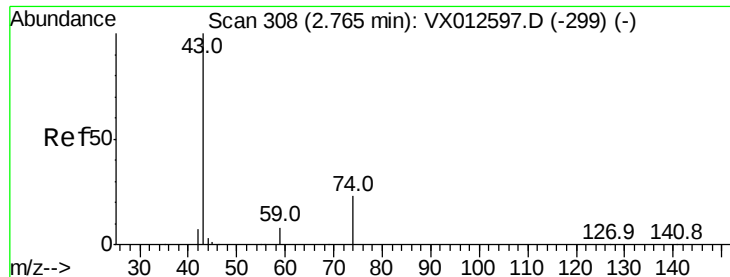
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#18

Methyl Acetate

Concen: 0.986 ug/l

RT: 2.83 min Scan# 318

Delta R.T. 0.06 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

Instrument :

MSVOA_X

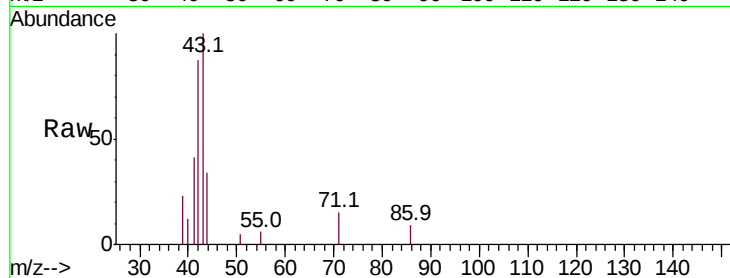
ClientSampled :

Tot Ion: 43 Resp: 3277

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

1200

1000

800

600

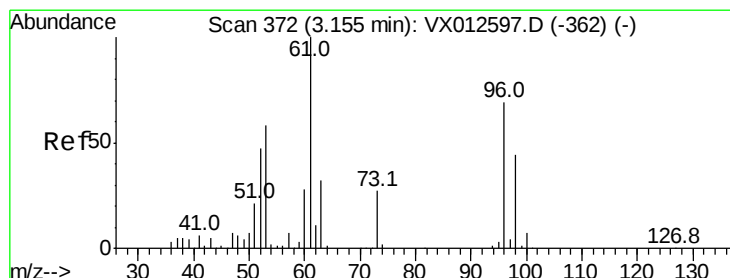
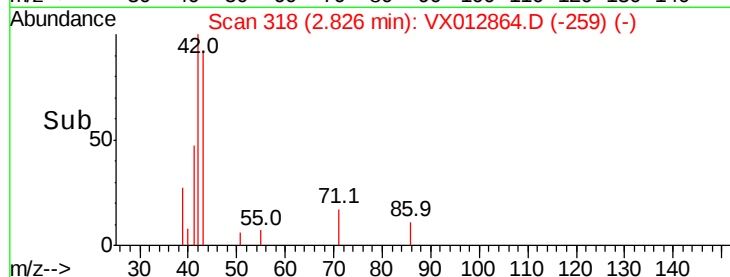
400

200

0

2.75 2.80 2.85 2.90

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.564 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

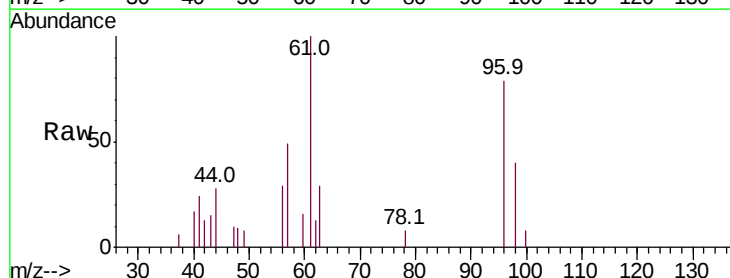
Tgt Ion: 96 Resp: 1228

Ion Ratio Lower Upper

96 100

61 126.4 112.0 168.0

98 51.0 47.8 71.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

1200

1000

800

600

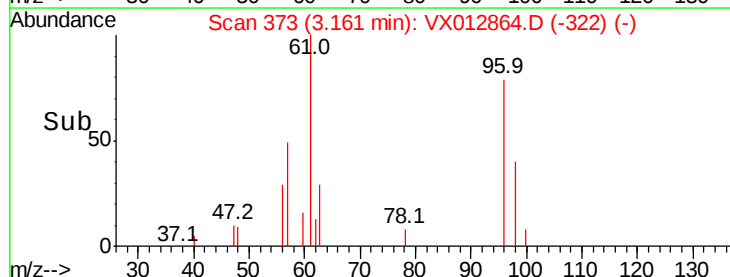
400

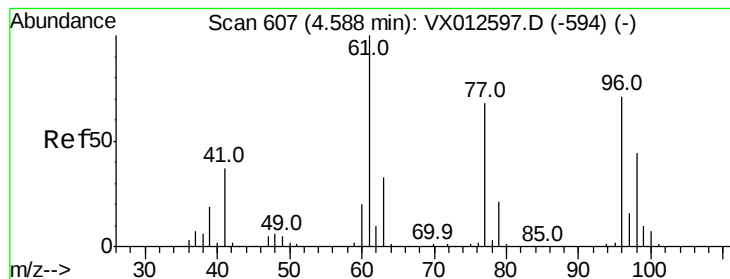
200

0

3.10 3.15 3.20

Time-->



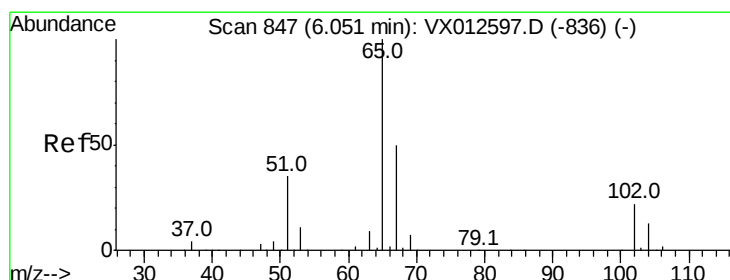
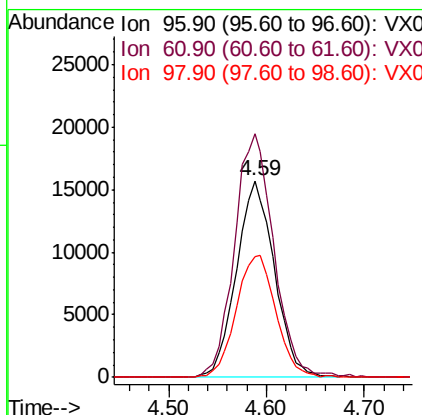
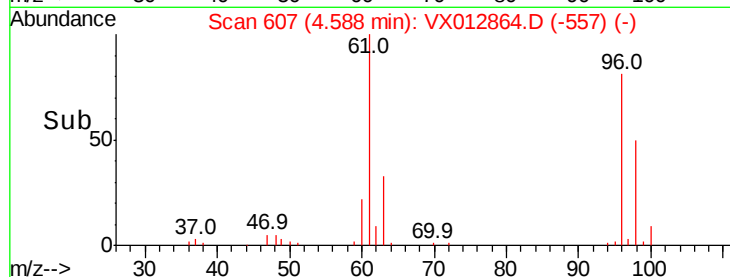
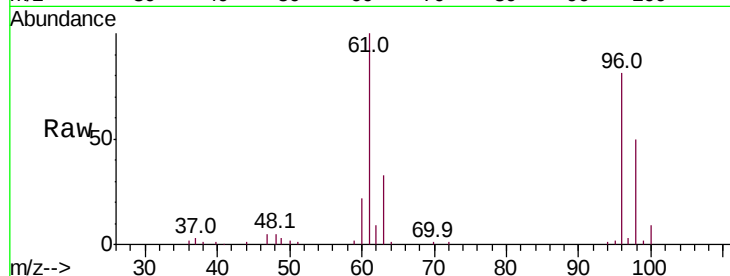


#27

cis-1,2-Dichloroethene
Concen: 16.761 ug/l
RT: 4.59 min Scan# 607
Delta R.T. 0.01 min
Lab File: VX012864.D
Acq: 08 Oct 2019 02:29

Instrument :
MSVOA_X
ClientSampleId :

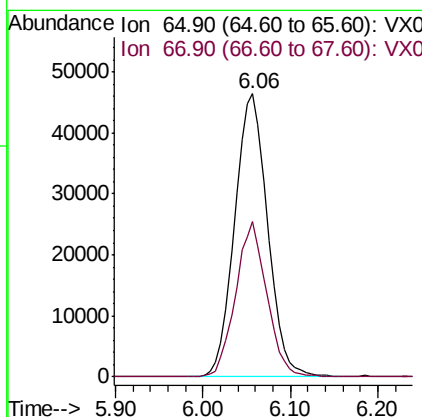
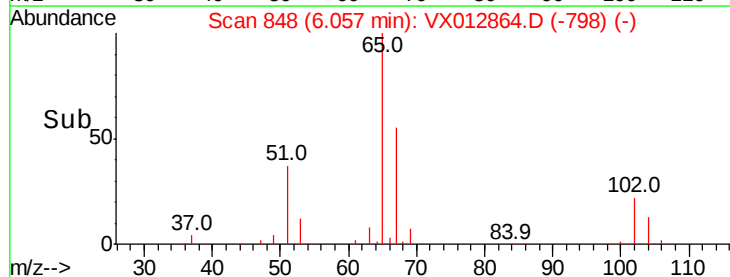
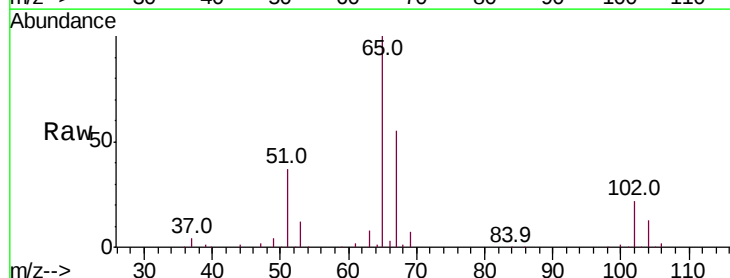
Tot Ion: 96 Resp: 42378
Ion Ratio Lower Upper
96 100
61 127.9 0.0 319.4
98 64.7 0.0 130.6

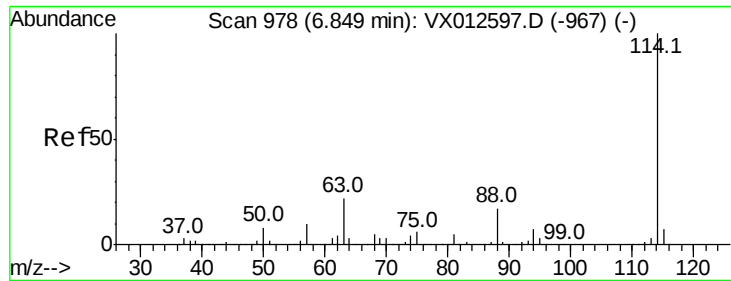


#33

1,2-Dichloroethane-d4
Concen: 45.575 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX012864.D
Acq: 08 Oct 2019 02:29

Tgt Ion: 65 Resp: 121408
Ion Ratio Lower Upper
65 100
67 51.9 0.0 101.2

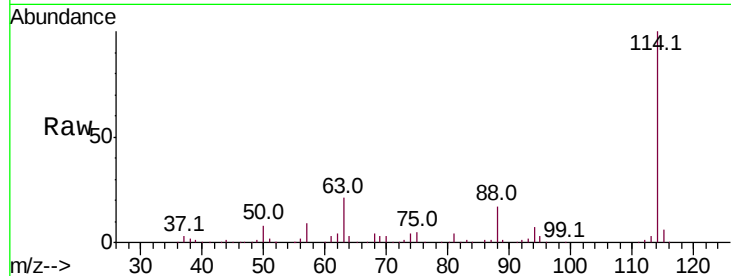




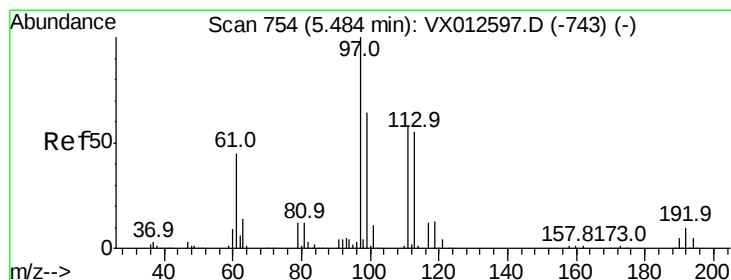
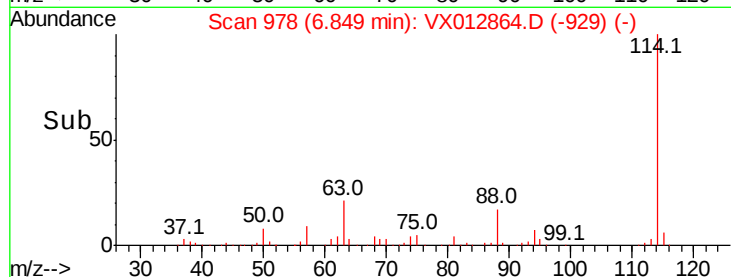
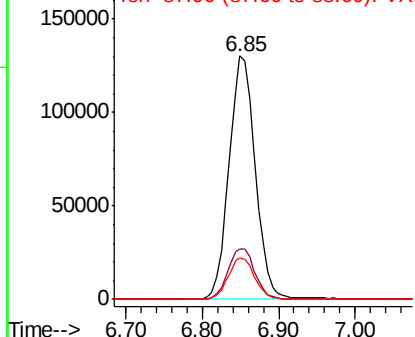
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012864.D
 Acq: 08 Oct 2019 02:29

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	43.2
88	17.1	0.0	33.2

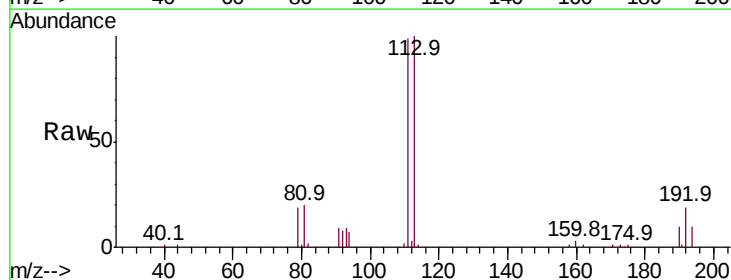


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

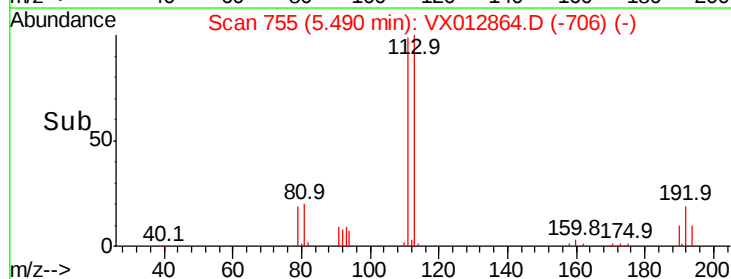
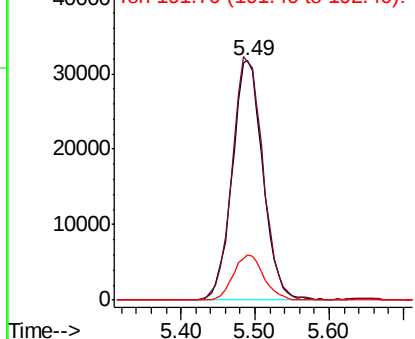


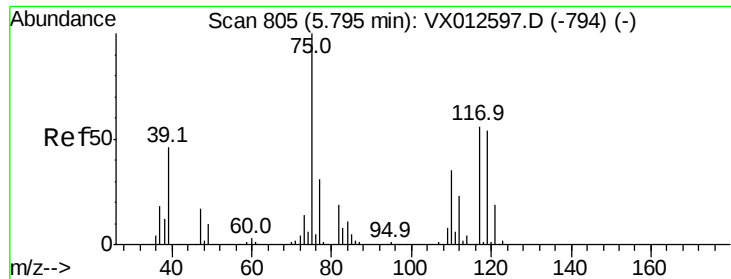
#35
 Dibromofluoromethane
 Concen: 49.555 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012864.D
 Acq: 08 Oct 2019 02:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.4	125.2
192	18.8	14.4	21.6



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

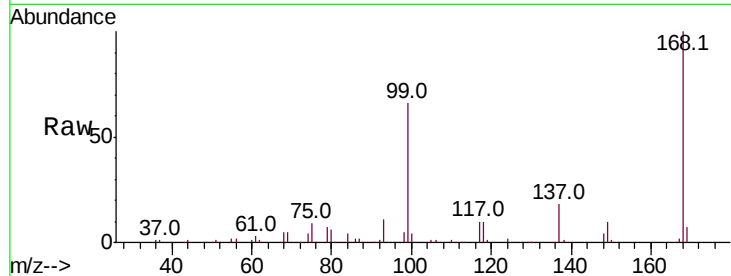




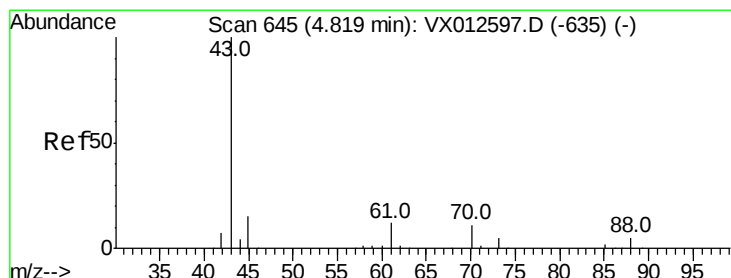
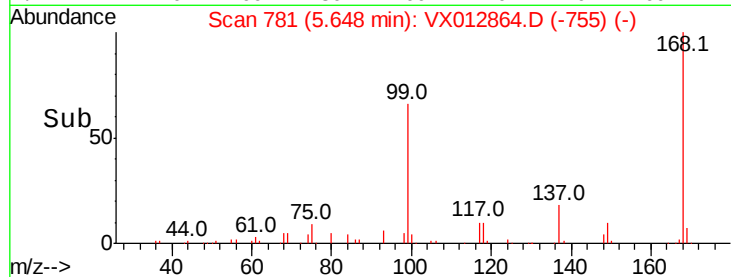
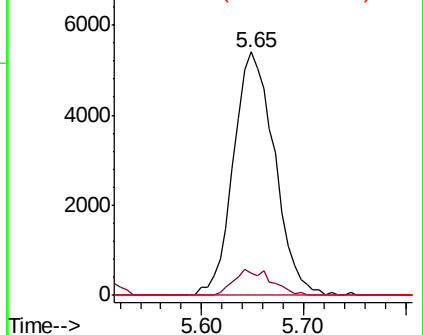
#36
 1,1-Dichloropropene
 Concen: 5.042 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012864.D
 Acq: 08 Oct 2019 02:29

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 15075
 Ion Ratio Lower Upper
 75 100
 110 9.7 16.7 50.0#
 77 0.0 24.2 36.2#

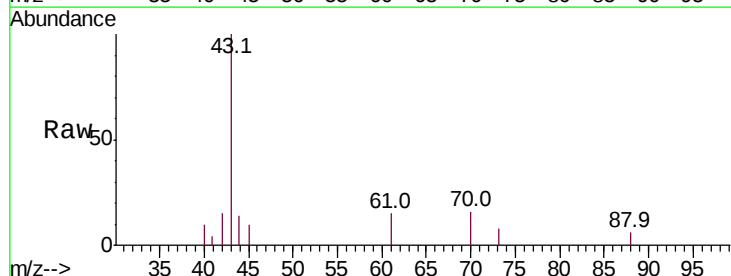


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

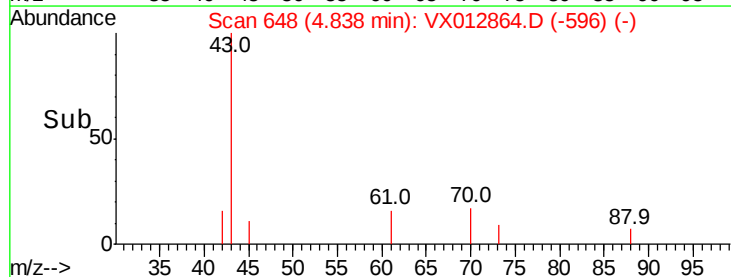
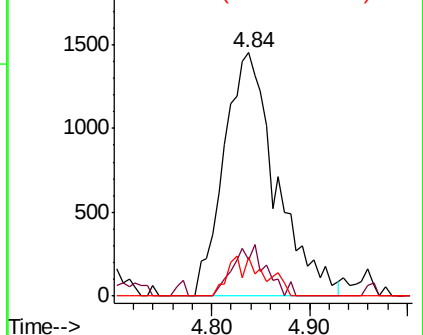


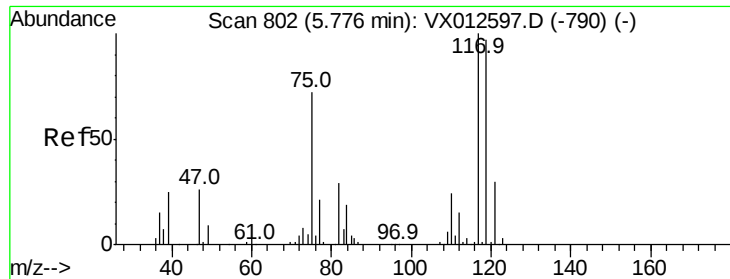
#37
 Ethyl Acetate
 Concen: 1.536 ug/l
 RT: 4.84 min Scan# 648
 Delta R.T. 0.02 min
 Lab File: VX012864.D
 Acq: 08 Oct 2019 02:29

Tgt Ion: 43 Resp: 5370
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.4#
 70 4.7 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.341 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

Instrument :

MSVOA_X

ClientSampled :

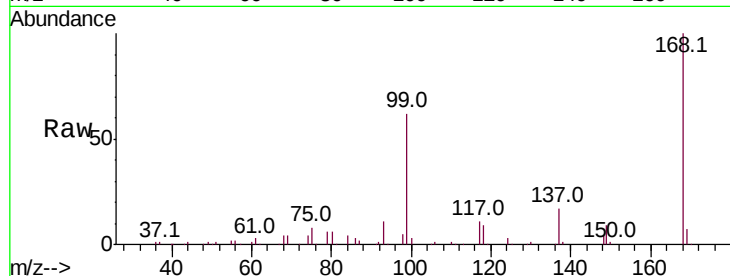
Tot Ion:117 Resp: 19259

Ion Ratio Lower Upper

117 100

119 3.6 75.7 113.5#

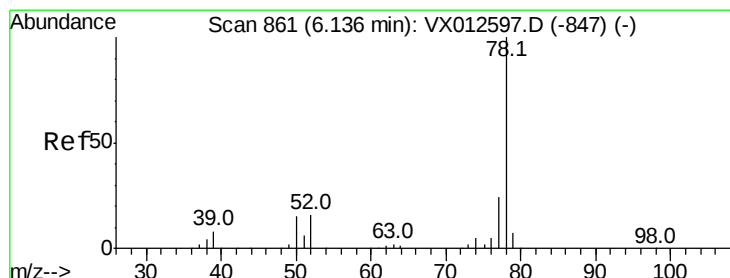
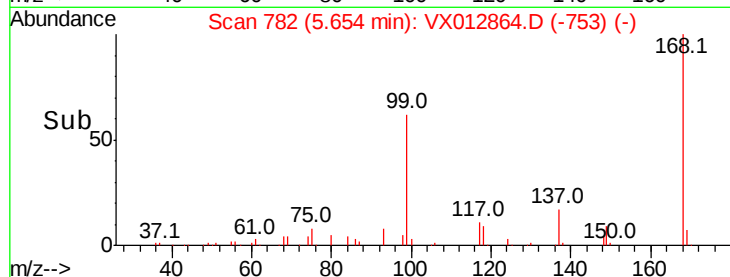
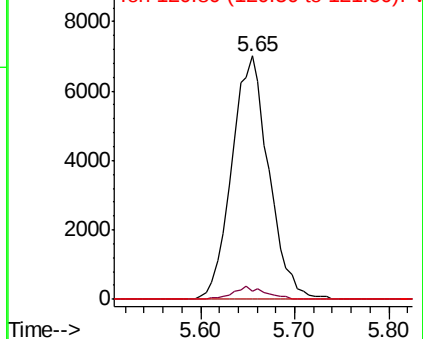
121 0.0 24.2 36.4#



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



#40

Benzene

Concen: 0.297 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX012864.D

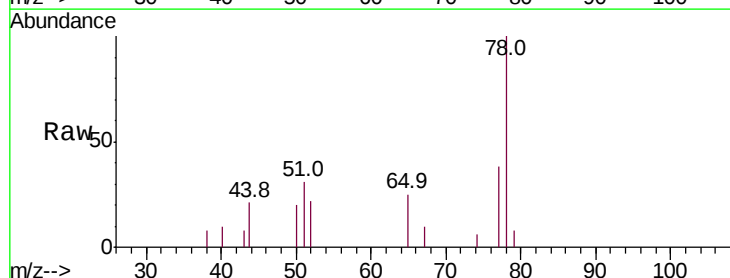
Acq: 08 Oct 2019 02:29

Tgt Ion: 78 Resp: 2617

Ion Ratio Lower Upper

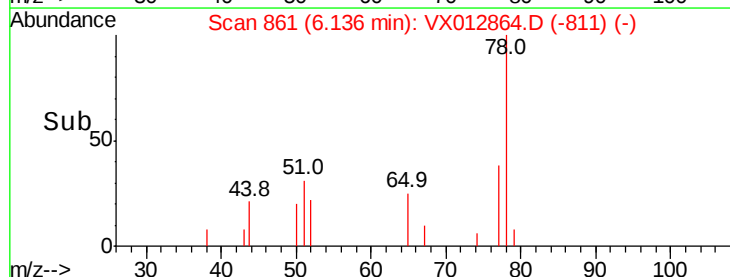
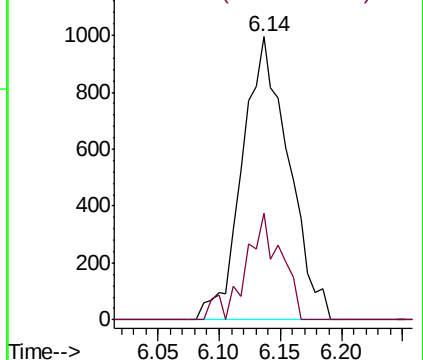
78 100

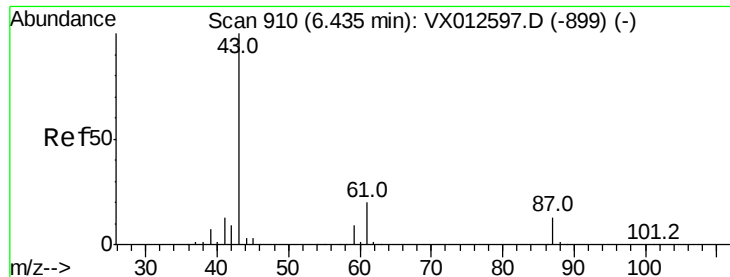
77 37.9 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 2.885 ug/l

RT: 6.34 min Scan# 895

Delta R.T. -0.09 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

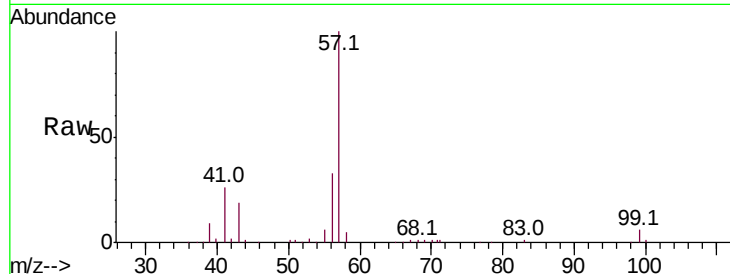
Tot Ion: 43 Resp: 16863

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

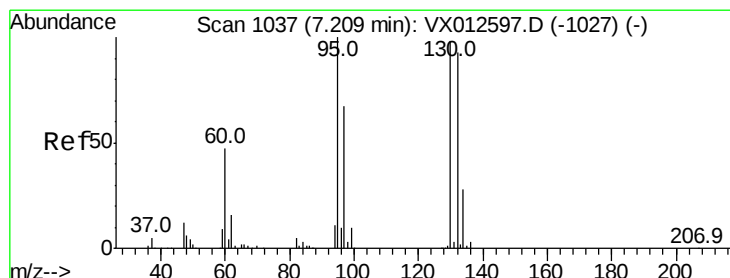
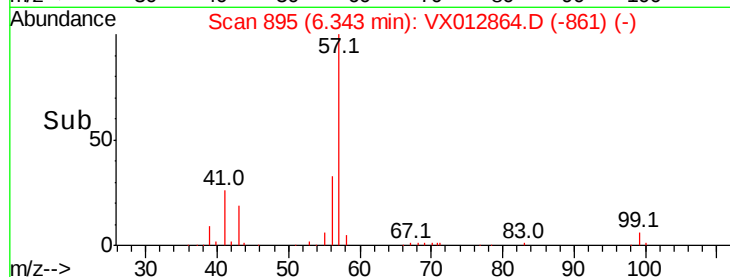
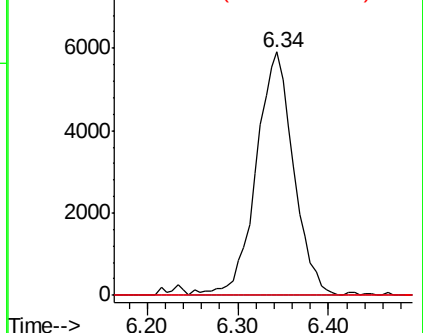
87 0.0 9.8 14.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#44

Trichloroethene

Concen: 0.434 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX012864.D

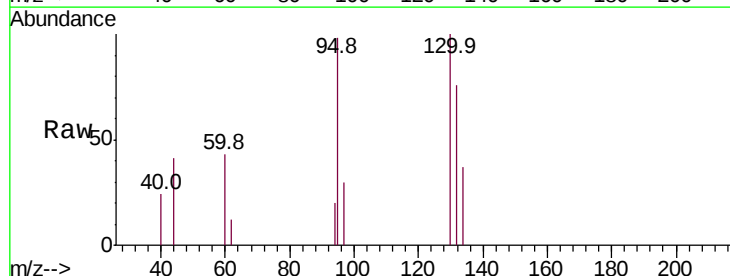
Acq: 08 Oct 2019 02:29

Tgt Ion:130 Resp: 976

Ion Ratio Lower Upper

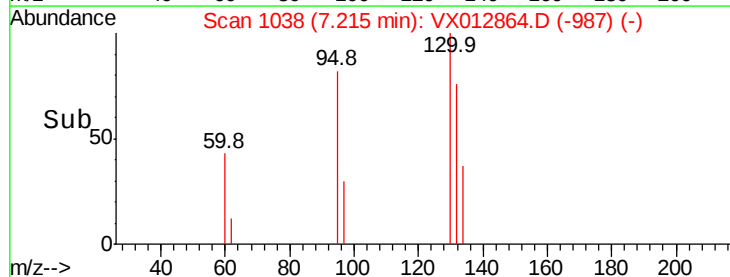
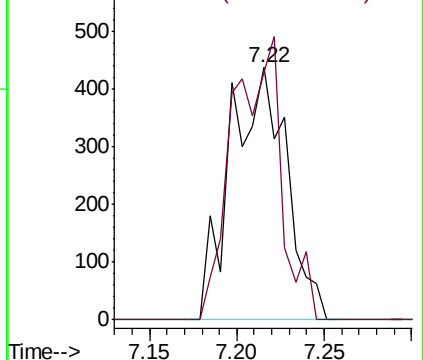
130 100

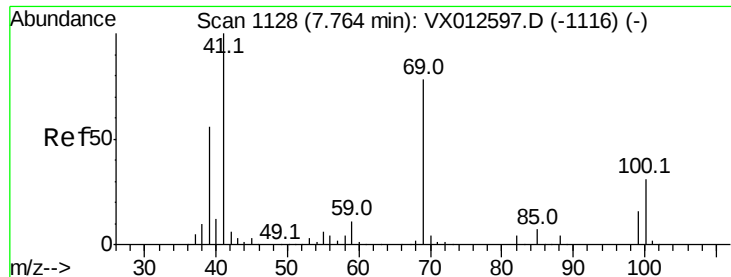
95 98.2 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

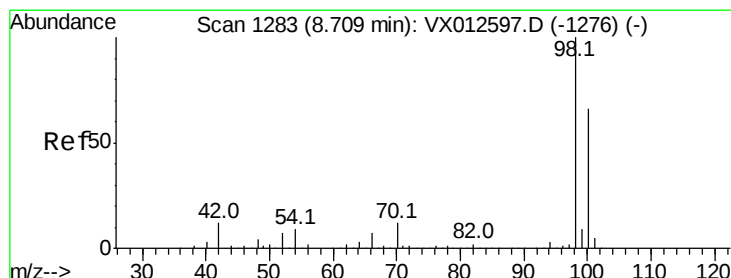
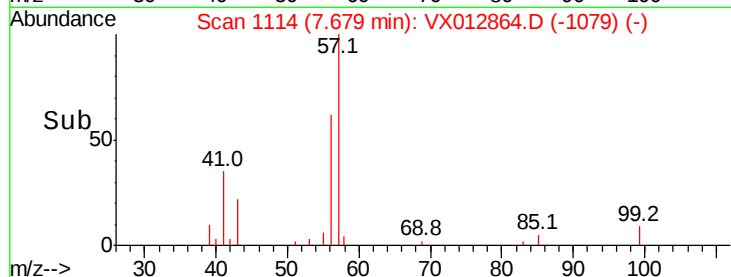
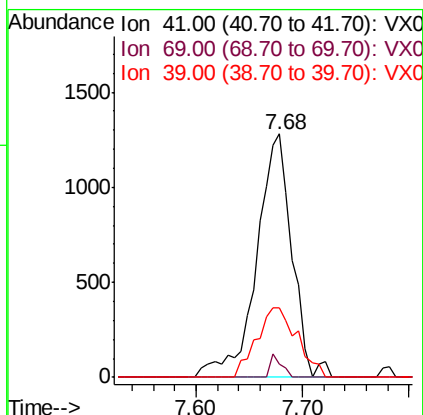
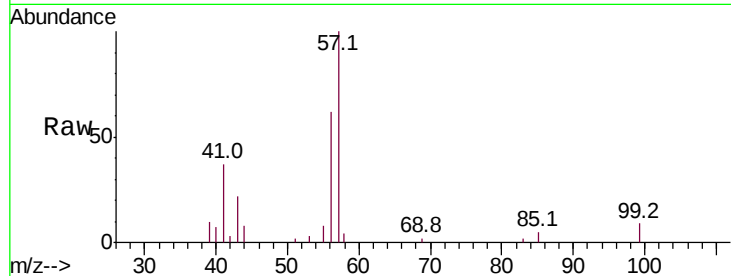




#48
Methvl methacrylate
Concen: 1.060 ug/l
RT: 7.68 min Scan# 1114
Delta R.T. -0.09 min
Lab File: VX012864.D
Acq: 08 Oct 2019 02:29

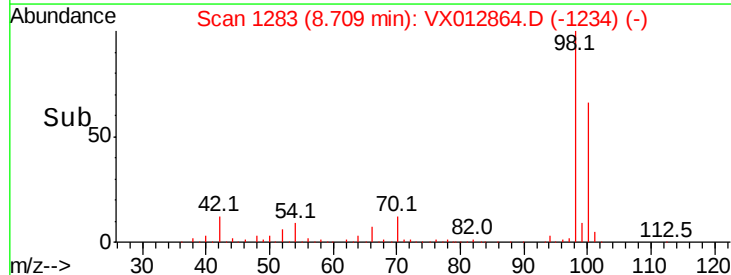
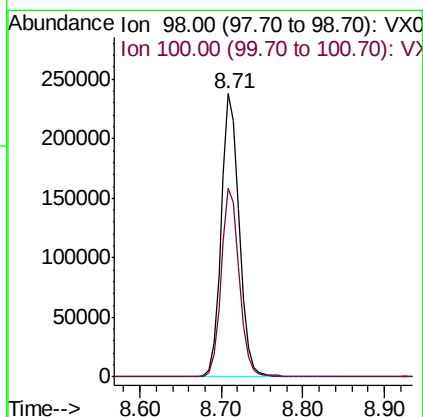
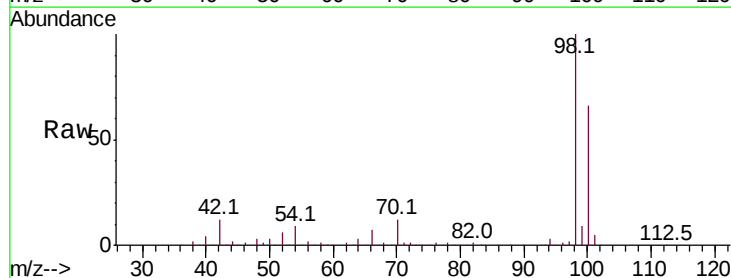
Instrument :
MSVOA_X
ClientSampleId :

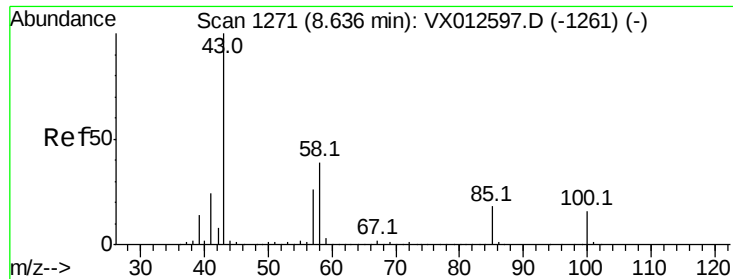
Tot Ion: 41 Resp: 2972
Ion Ratio Lower Upper
41 100
69 3.0 59.9 89.9#
39 32.7 47.8 71.6#



#50
Toluene-d8
Concen: 51.360 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012864.D
Acq: 08 Oct 2019 02:29

Tgt Ion: 98 Resp: 365378
Ion Ratio Lower Upper
98 100
100 66.8 53.4 80.2





#51

4-Methyl-2-Pentanone

Concen: 0.586 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

Instrument :

MSVOA_X

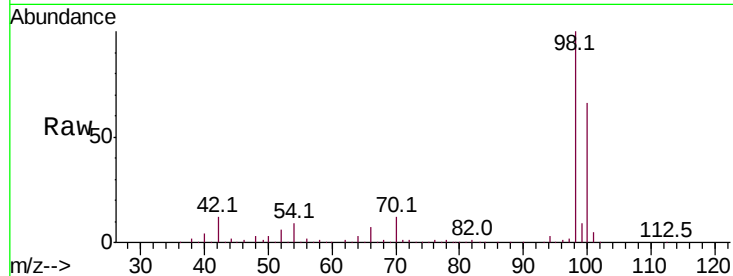
ClientSampled :

Tot Ion: 43 Resp: 2113

Ion Ratio Lower Upper

43 100

58 147.8 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

1000

500

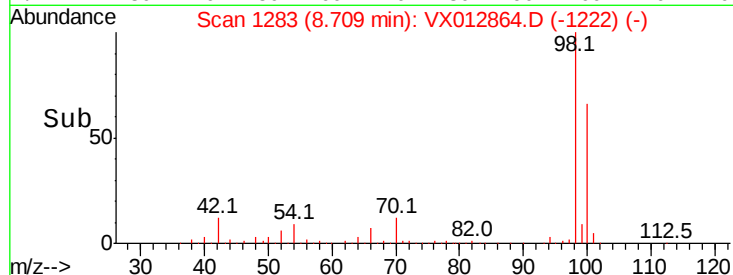
0

8.60

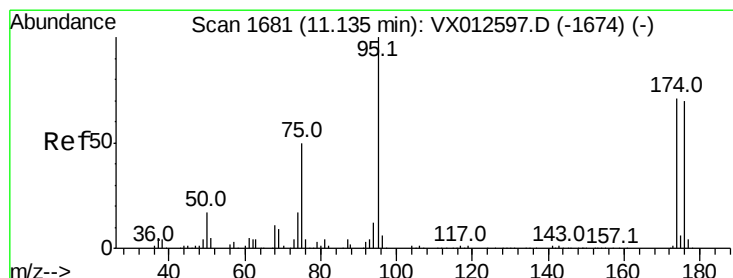
8.65

8.70

8.75



Time-->



#62

4-Bromofluorobenzene

Concen: 46.417 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

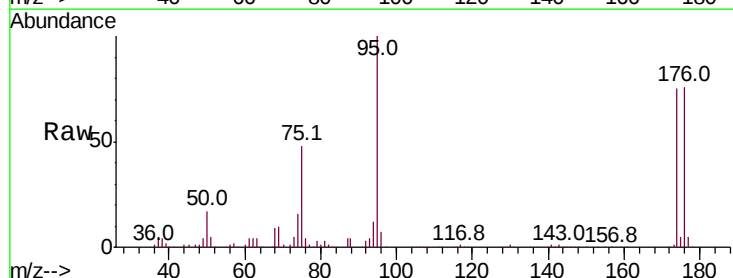
Tgt Ion: 95 Resp: 129841

Ion Ratio Lower Upper

95 100

174 69.3 0.0 140.0

176 68.5 0.0 135.4



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

120000

100000

80000

60000

40000

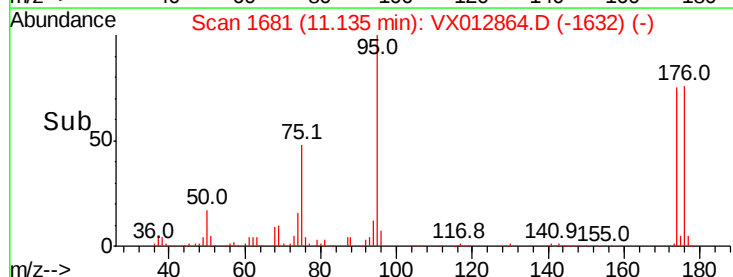
20000

0

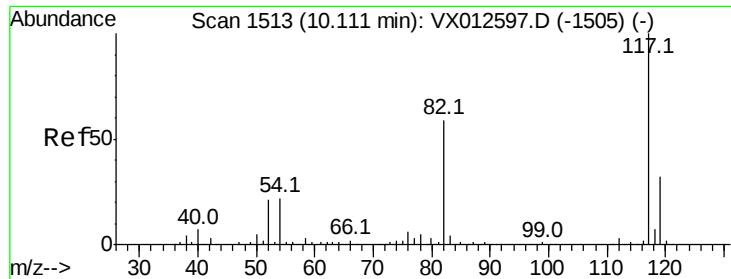
11.10

11.14

11.20



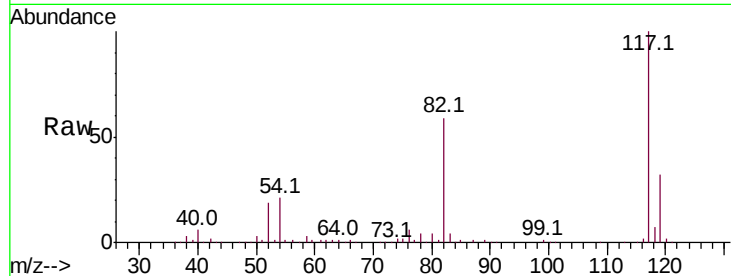
Time-->



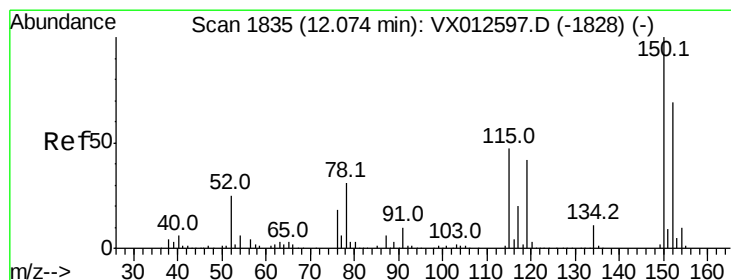
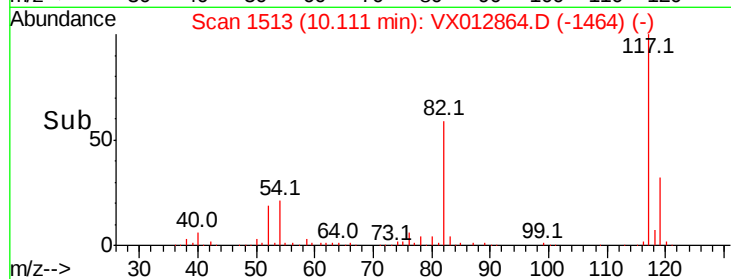
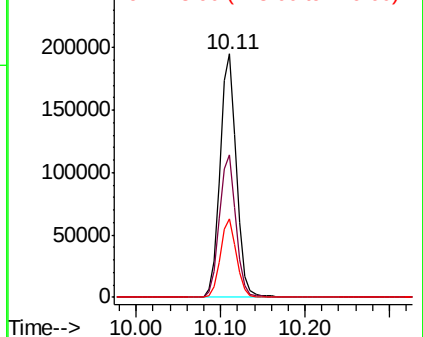
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012864.D
Acq: 08 Oct 2019 02:29

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 262535
Ion Ratio Lower Upper
117 100
82 58.8 45.9 68.9
119 32.4 25.3 37.9

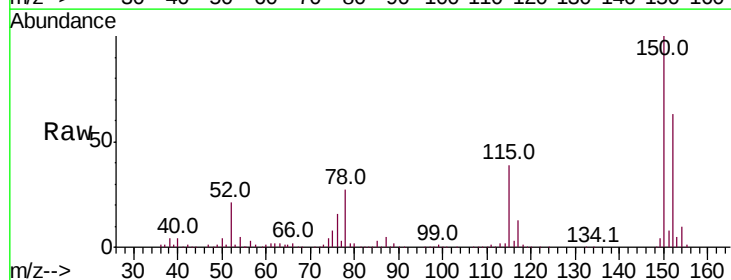


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

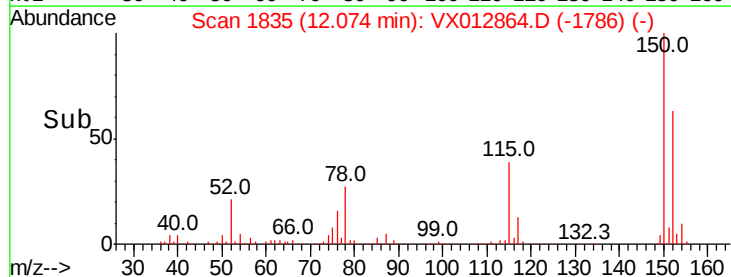
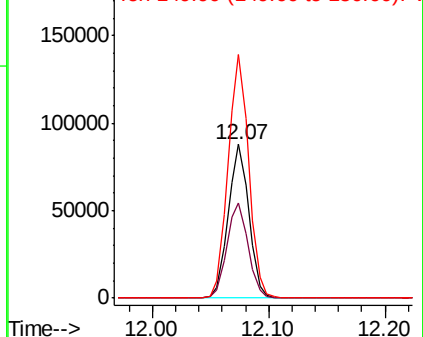


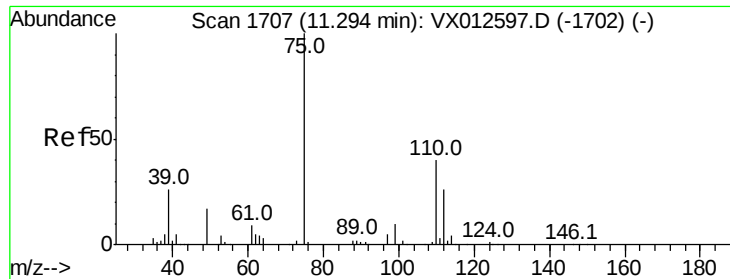
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012864.D
Acq: 08 Oct 2019 02:29

Tgt Ion:152 Resp: 107919
Ion Ratio Lower Upper
152 100
115 63.2 44.1 132.3
150 158.4 0.0 343.8



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: 22.474 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

Instrument :

MSVOA_X

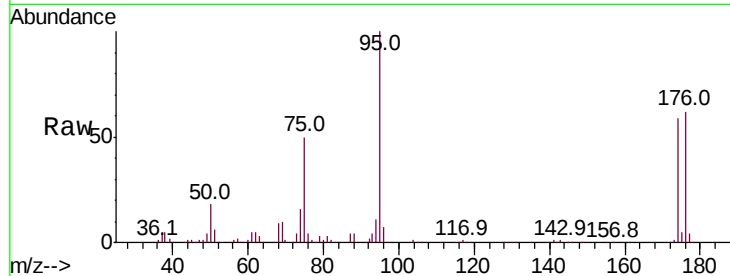
ClientSampleId :

Tot Ion: 75 Resp: 64158

Ion Ratio Lower Upper

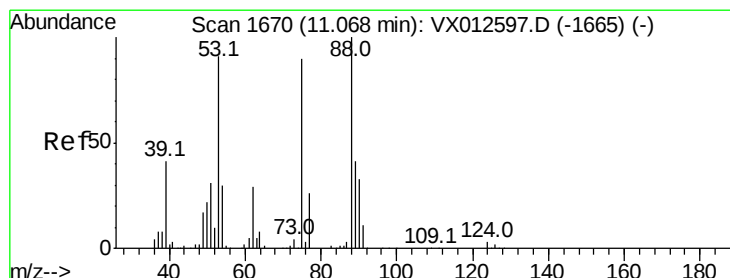
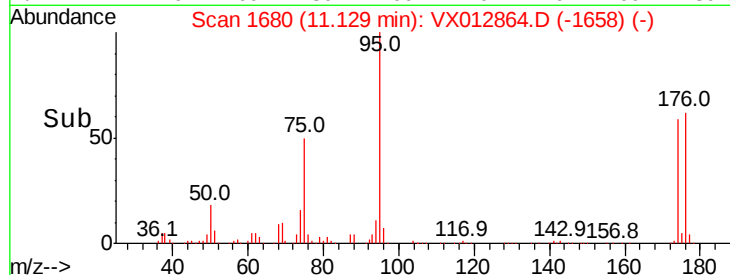
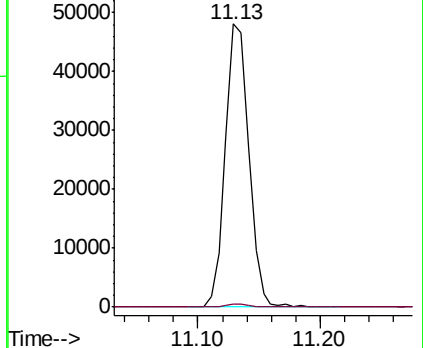
75 100

77 1.2 19.7 59.0#



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: 64.406 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

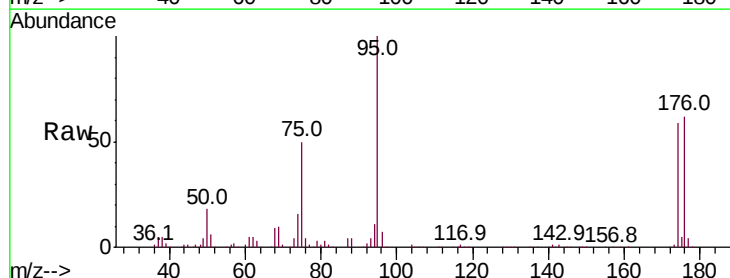
Tgt Ion: 75 Resp: 64158

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

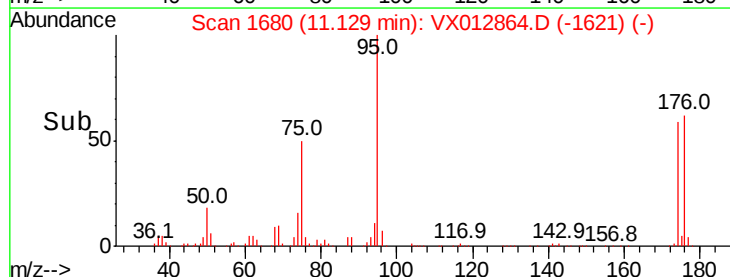
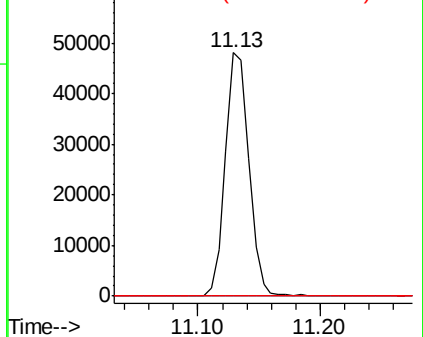
89 0.0 36.3 54.5#

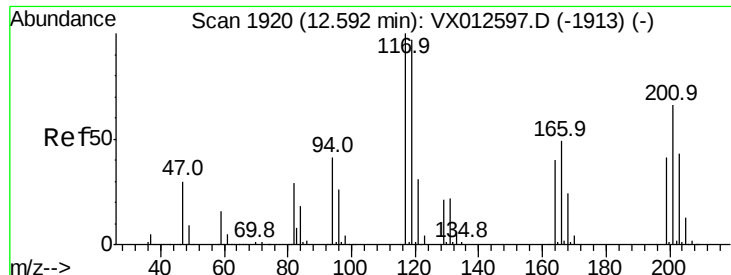


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 0.222 ug/l

RT: 12.70 min Scan# 1937

Delta R.T. 0.10 min

Lab File: VX012864.D

Acq: 08 Oct 2019 02:29

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 295

Ion Ratio Lower Upper

117 100

201 0.0 33.3 99.8#

