

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070720\
 Data File : VX017200.D
 Acq On : 07 Jul 2020 13:58
 Operator : JC/SP
 Sample : L3159-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 23BR-20200629

Quant Time: Jul 08 01:52:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	258623	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	426636	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	434741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	237011	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	167178	52.43	ug/l	0.00
Spiked Amount			Recovery	=	104.86%	
35) Dibromofluoromethane	5.47	113	142351	52.75	ug/l	0.00
Spiked Amount			Recovery	=	105.50%	
50) Toluene-d8	8.70	98	517260	51.83	ug/l	0.00
Spiked Amount			Recovery	=	103.66%	
62) 4-Bromofluorobenzene	11.12	95	213887	54.83	ug/l	0.00
Spiked Amount			Recovery	=	109.66%	

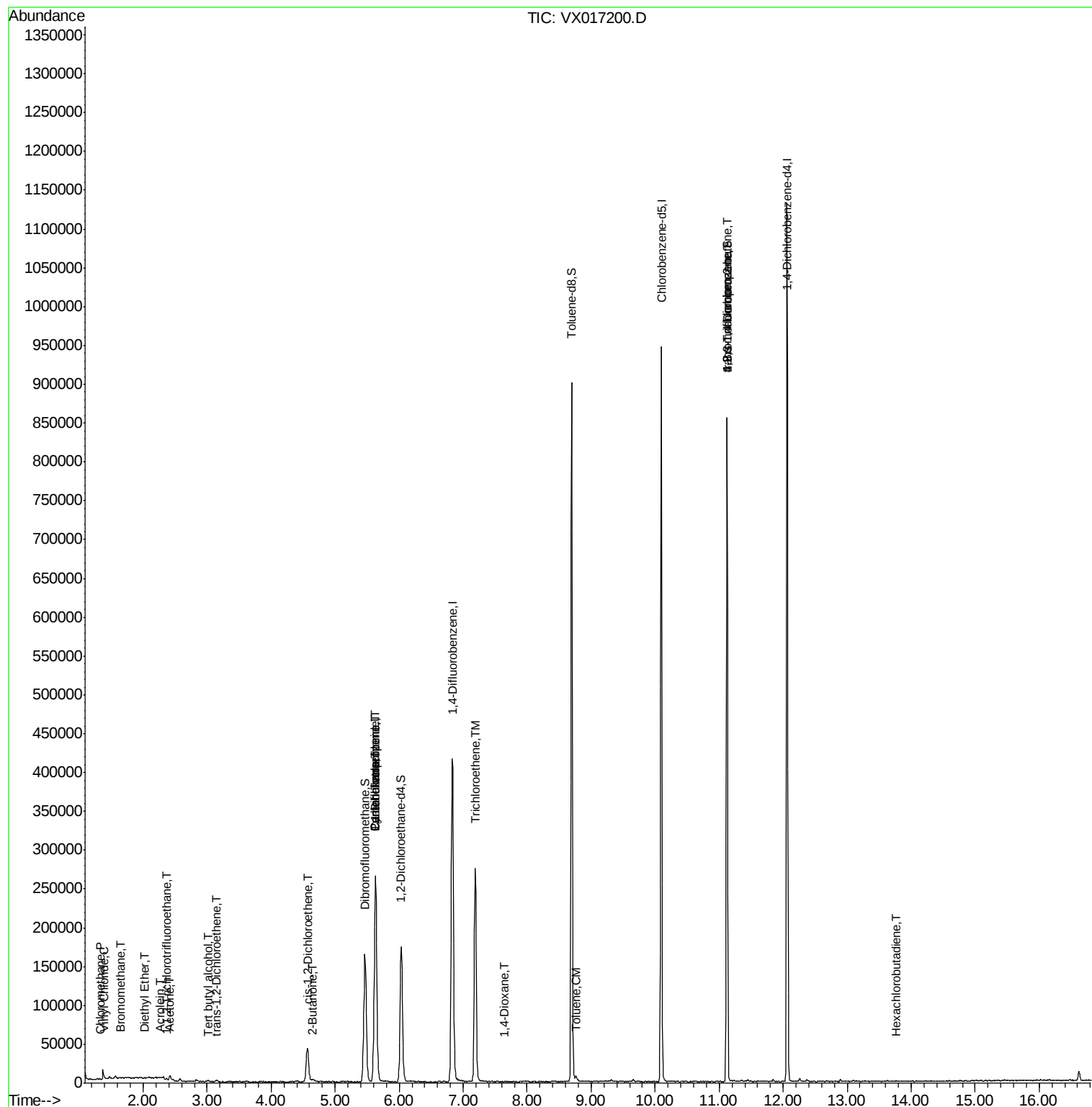
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	724	0.239	ug/l	95
4) Vinyl Chloride	1.40	62	844	0.300	ug/l	93
5) Bromomethane	1.65	94	397	0.267	ug/l #	50
8) Diethyl Ether	2.01	74	105	0.440	ug/l	58
9) 1,1,2-Trichlorotrifluoroet	2.37	101	811	0.326	ug/l #	80
11) Tert butyl alcohol	3.02	59	1795	2.951	ug/l	97
13) Acrolein	2.28	56	211	0.580	ug/l #	73
16) Acetone	2.42	43	7333	6.148	ug/l #	87
20) Methylene Chloride	2.83	84	1008	Below Cal	#	75
21) trans-1,2-Dichloroethene	3.15	96	755	0.266	ug/l #	59
25) 2-Butanone	4.64	43	1138	0.573	ug/l #	63
27) cis-1,2-Dichloroethene	4.57	96	27945	8.686	ug/l	90
31) Cyclohexane	5.63	56	5349	1.243	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	18668	4.630	ug/l #	50
38) Carbon Tetrachloride	5.63	117	25248	5.685	ug/l #	20
44) Trichloroethene	7.19	130	109889	33.511	ug/l	96
49) 1,4-Dioxane	7.63	88	19	0.260	ug/l #	1
52) Toluene	8.77	92	1662	0.225	ug/l	94
76) 1,2,3-Trichloropropane	11.12	75	108261	23.229	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	108261	60.154	ug/l #	13
88) 1,4-Dichlorobenzene	12.02	146	399	Below Cal		92
94) Hexachlorobutadiene	13.77	225	115	0.904	ug/l #	39

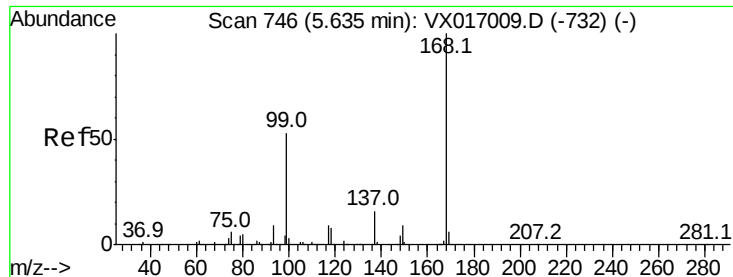
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VX017200.D
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23BR-20200629

Quant Time: Jul 08 01:52:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampled :

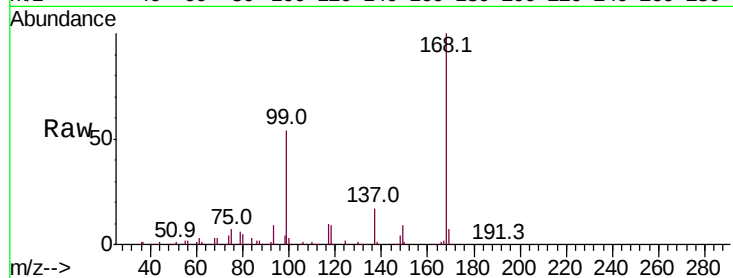
23BR-20200629

Tot Ion:168 Resp: 258623

Ion Ratio Lower Upper

168 100

99 53.6 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

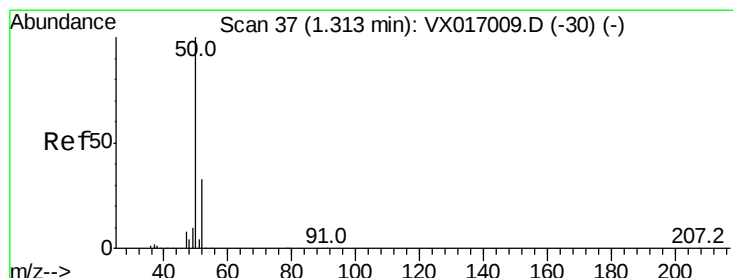
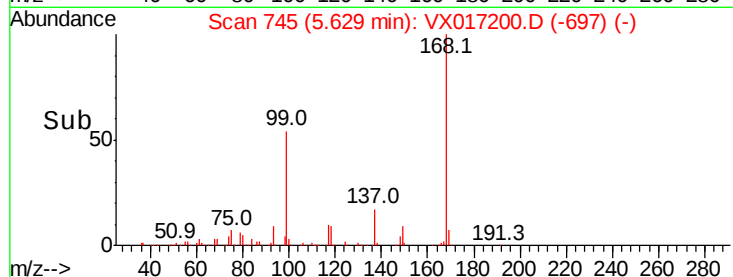
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.239 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017200.D

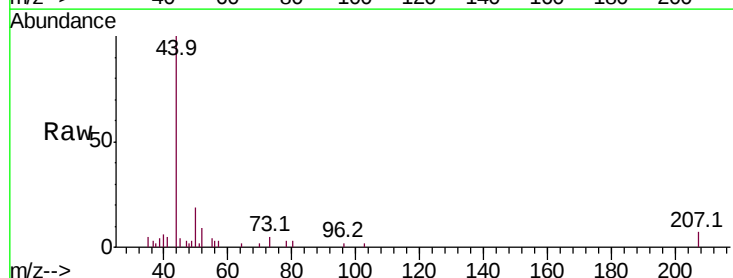
Acq: 07 Jul 2020 13:58

Tgt Ion: 50 Resp: 724

Ion Ratio Lower Upper

50 100

52 35.2 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

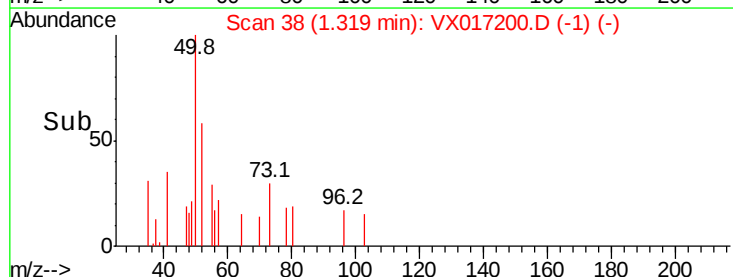
300

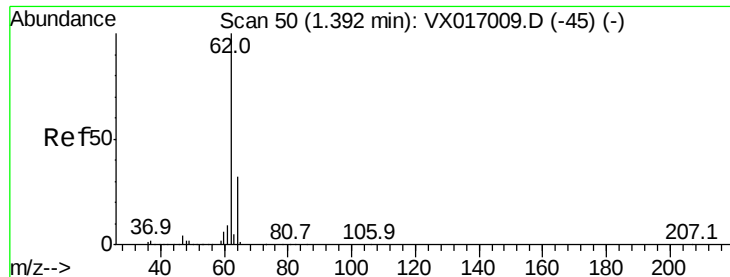
200

100

0

Time-->





#4

Vinyl Chloride

Concen: 0.300 ug/l

RT: 1.40 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

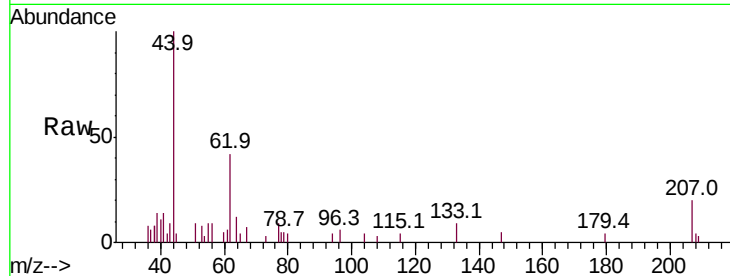
23BR-20200629

Tot Ion: 62 Resp: 844

Ion Ratio Lower Upper

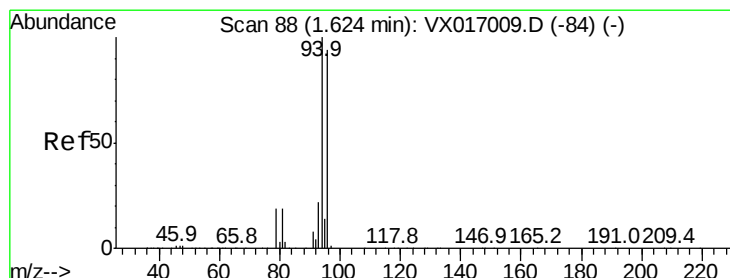
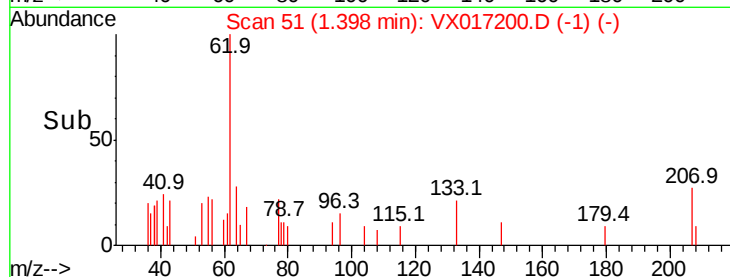
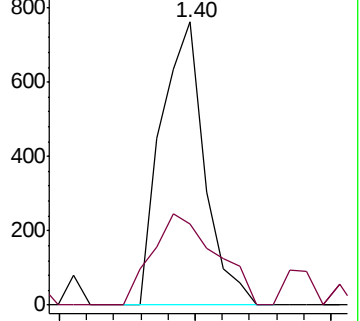
62 100

64 28.5 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.267 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.03 min

Lab File: VX017200.D

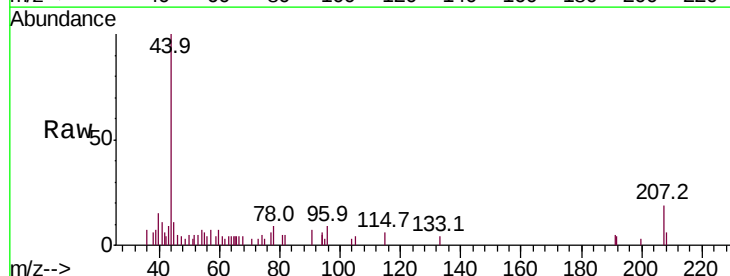
Acq: 07 Jul 2020 13:58

Tgt Ion: 94 Resp: 397

Ion Ratio Lower Upper

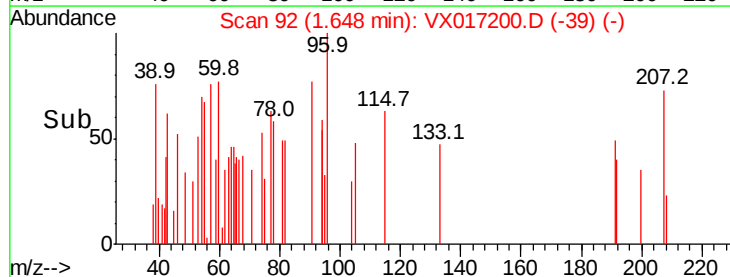
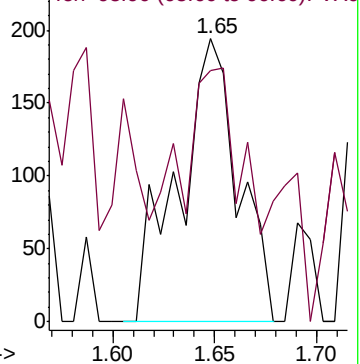
94 100

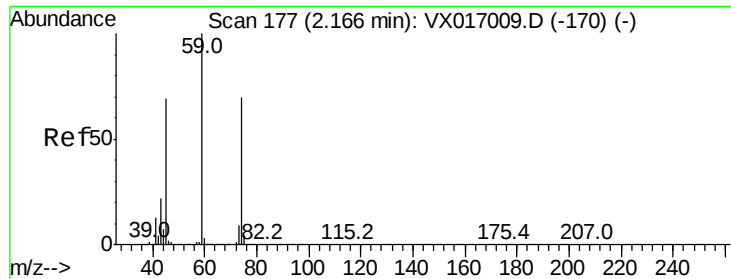
96 45.9 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.440 ug/l

RT: 2.01 min Scan# 152

Delta R.T. -0.15 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampled :

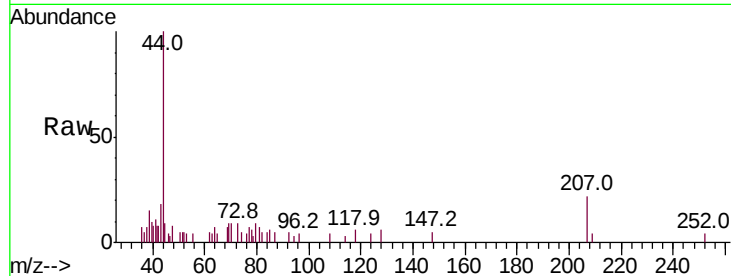
23BR-20200629

Tot Ion: 74 Resp: 105

Ion Ratio Lower Upper

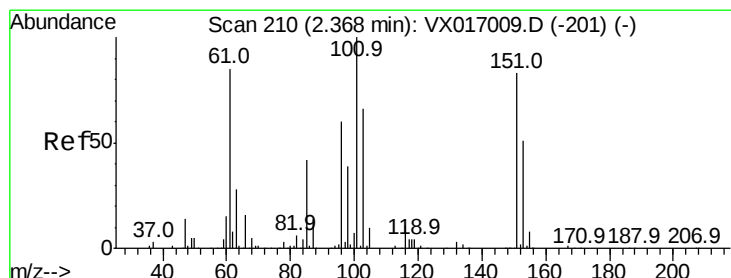
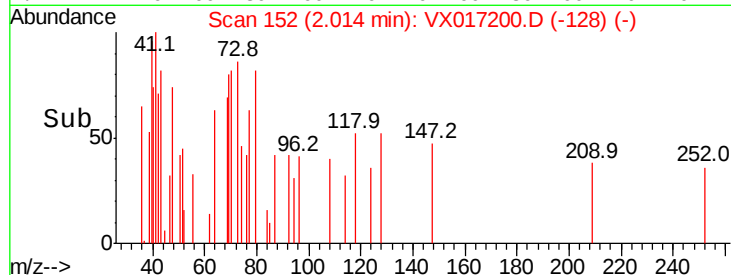
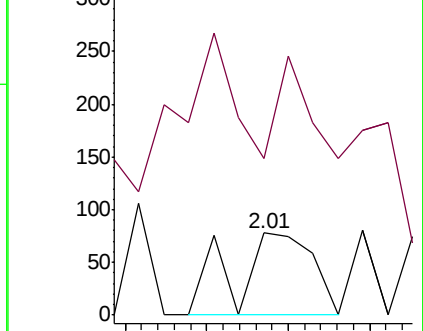
74 100

45 141.0 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.326 ug/l

RT: 2.37 min Scan# 211

Delta R.T. 0.01 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

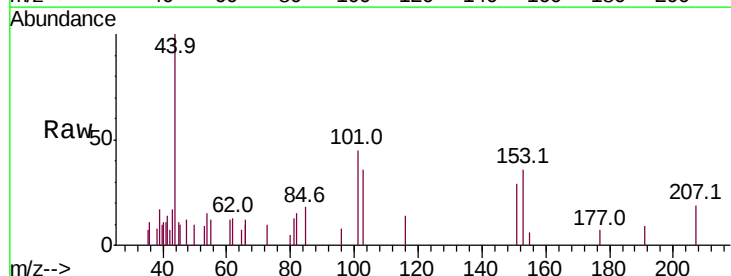
Tgt Ion: 101 Resp: 811

Ion Ratio Lower Upper

101 100

85 57.5 33.5 50.3#

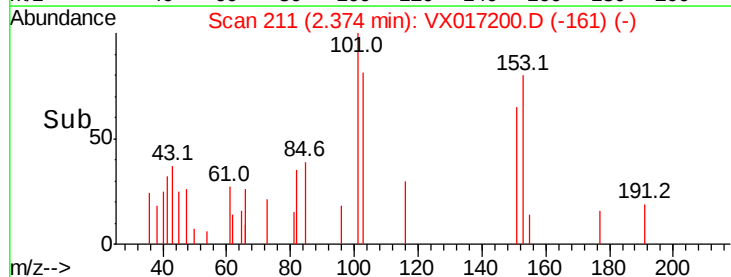
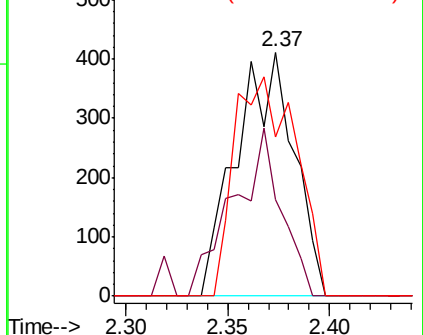
151 95.7 63.8 95.6#

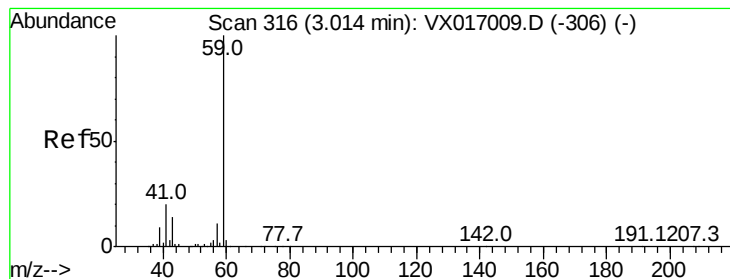


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



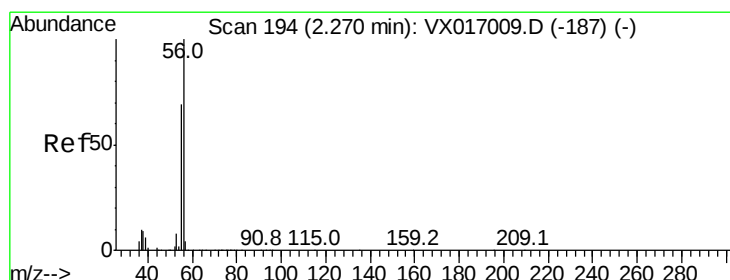
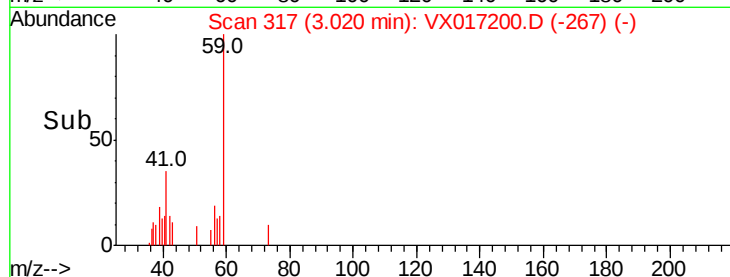
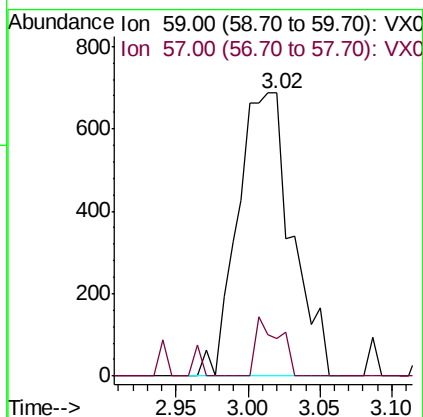
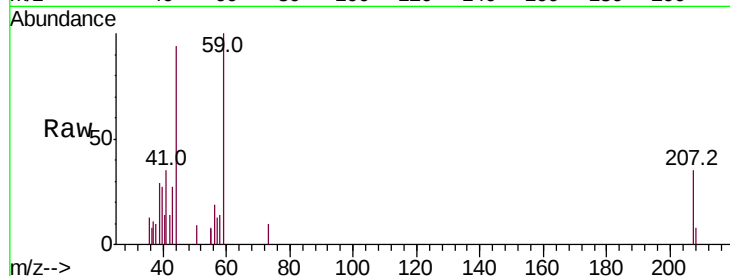


#11

Tert butyl alcohol
 Concen: 2.951 ug/l
 RT: 3.02 min Scan# 317
 Delta R.T. 0.01 min
 Lab File: VX017200.D
 Acq: 07 Jul 2020 13:58

Instrument :
 MSVOA_X
 ClientSampleId :
 23BR-20200629

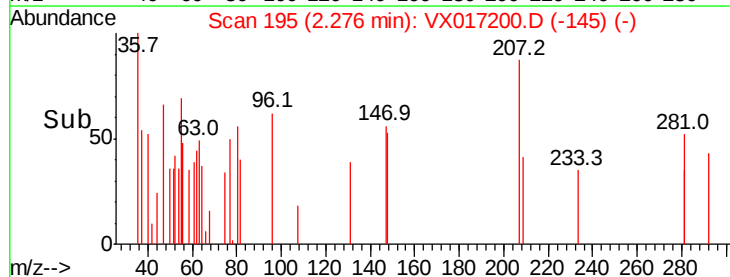
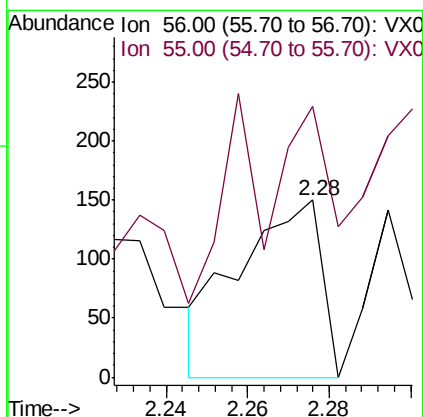
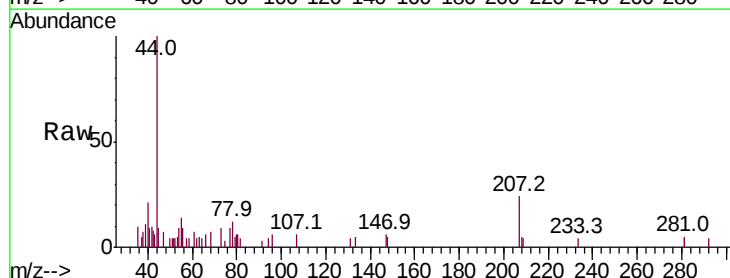
Tot Ion: 59 Resp: 1795
 Ion Ratio Lower Upper
 59 100
 57 9.0 8.2 12.2

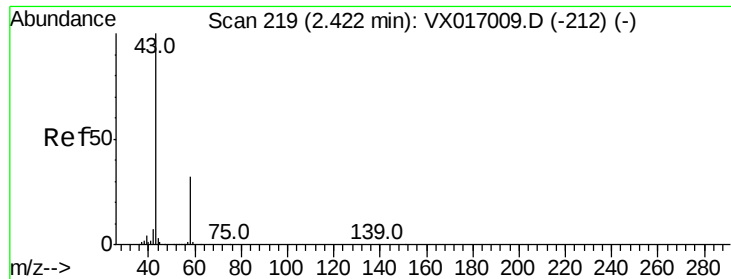


#13

Acrolein
 Concen: 0.580 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX017200.D
 Acq: 07 Jul 2020 13:58

Tgt Ion: 56 Resp: 211
 Ion Ratio Lower Upper
 56 100
 55 47.9 55.7 83.5#





#16

Acetone

Concen: 6.148 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

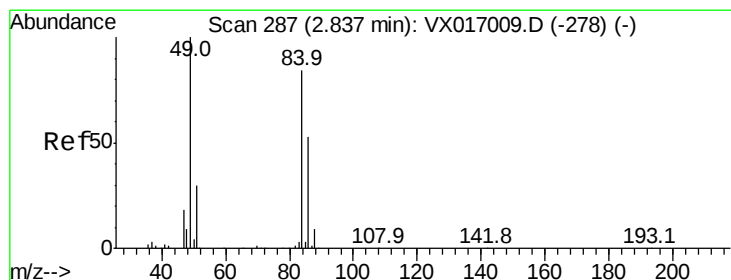
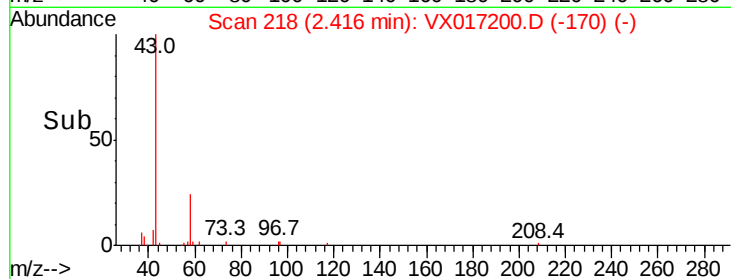
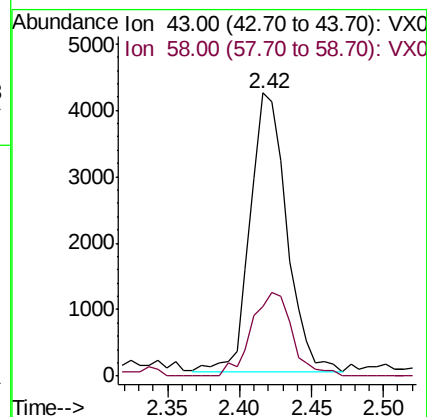
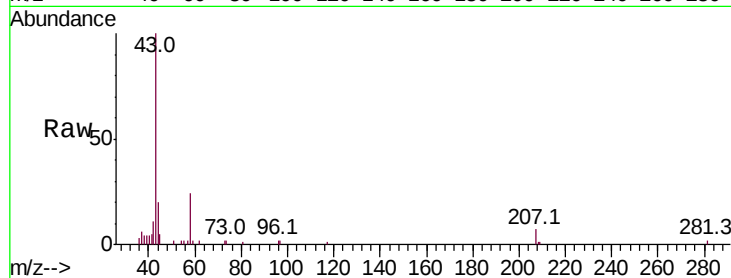
23BR-20200629

Tot Ion: 43 Resp: 7333

Ion Ratio Lower Upper

43 100

58 24.9 25.7 38.5#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Tgt Ion: 84 Resp: 1008

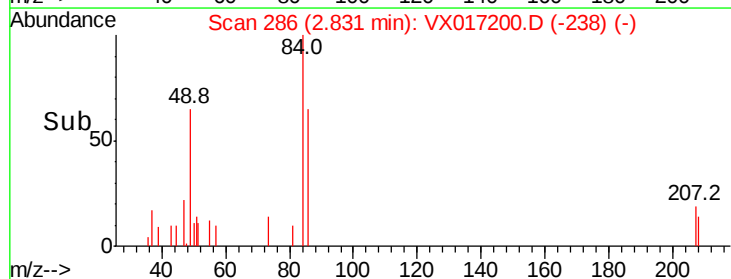
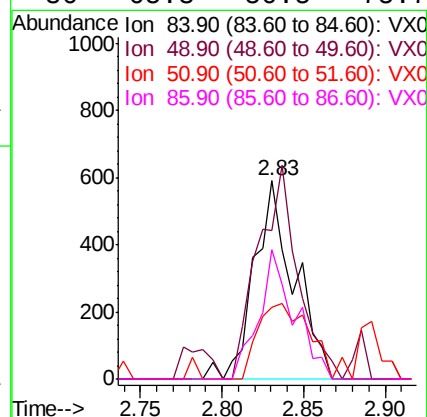
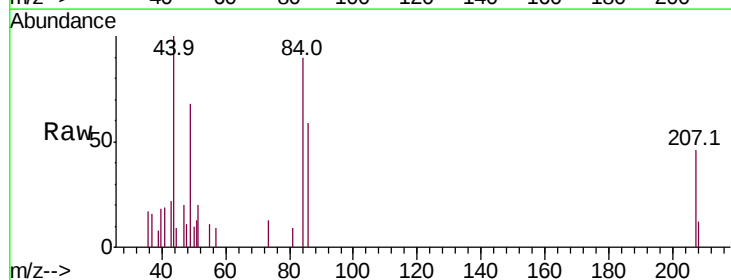
Ion Ratio Lower Upper

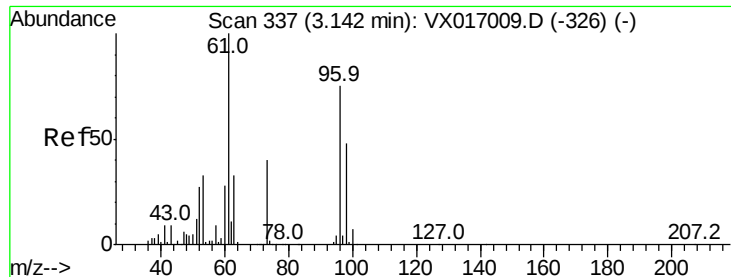
84 100

49 75.3 94.7 142.1#

51 25.3 28.6 42.8#

86 65.3 50.5 75.7





#21

trans-1,2-Dichloroethene

Concen: 0.266 ug/l

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

23BR-20200629

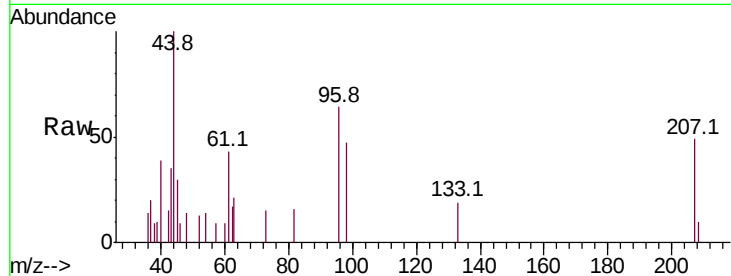
Tot Ion: 96 Resp: 755

Ion Ratio Lower Upper

96 100

61 68.1 107.0 160.6#

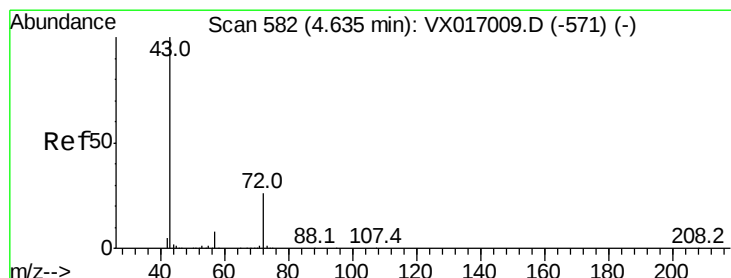
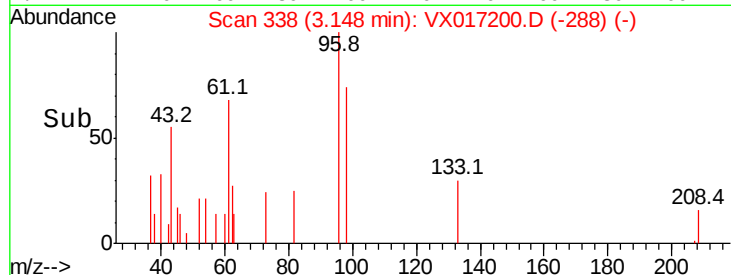
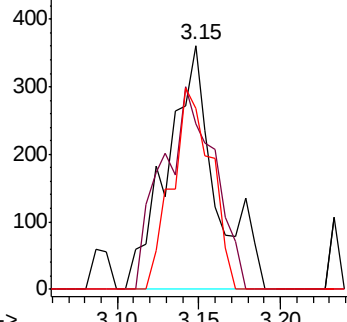
98 74.2 51.6 77.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.573 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX017200.D

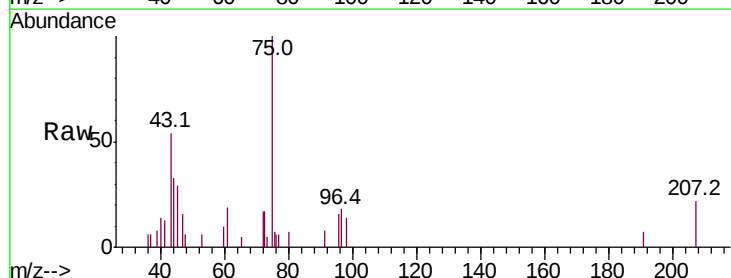
Acq: 07 Jul 2020 13:58

Tgt Ion: 43 Resp: 1138

Ion Ratio Lower Upper

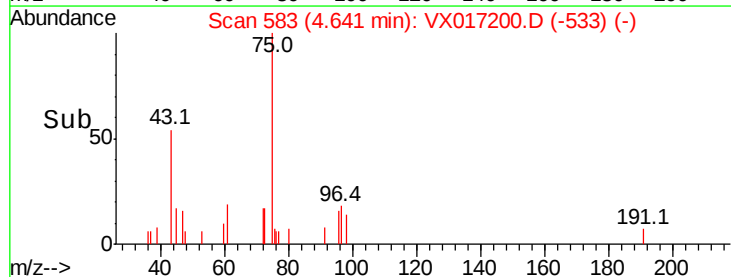
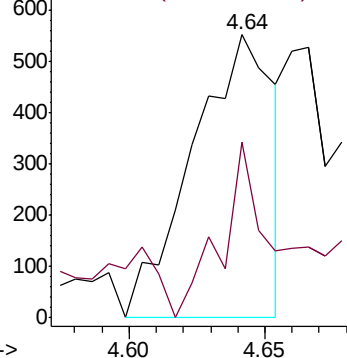
43 100

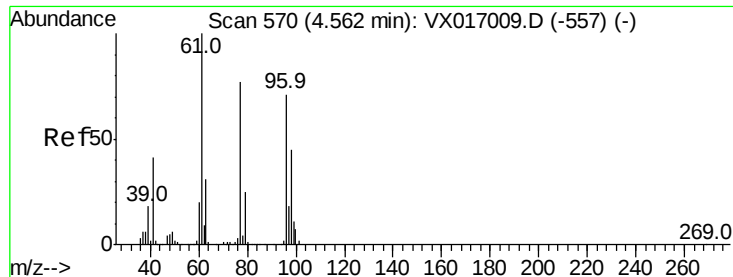
72 44.6 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



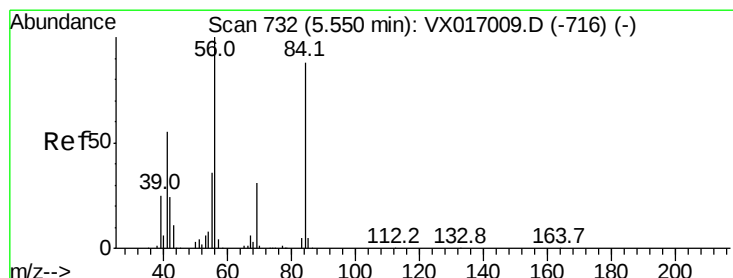
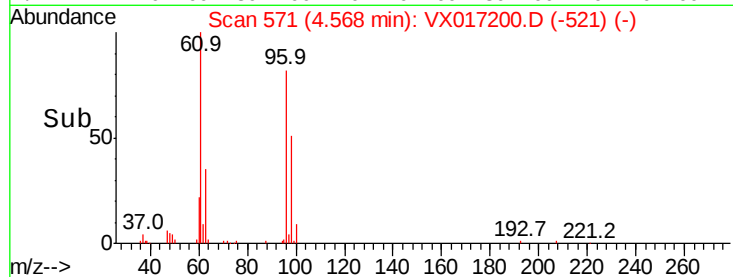
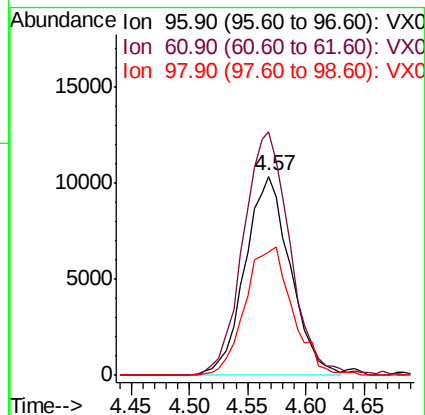
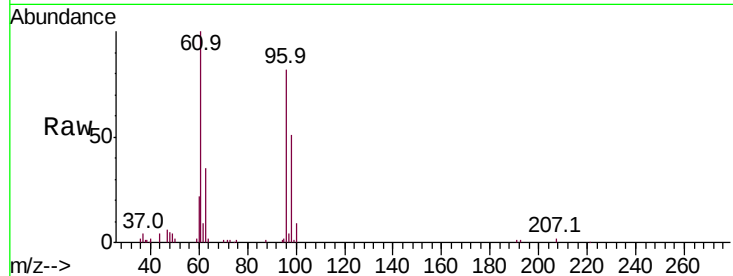


#27

cis-1,2-Dichloroethene
Concen: 8.686 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX017200.D
Acq: 07 Jul 2020 13:58

Instrument :
MSVOA_X
ClientSampleId :
23BR-20200629

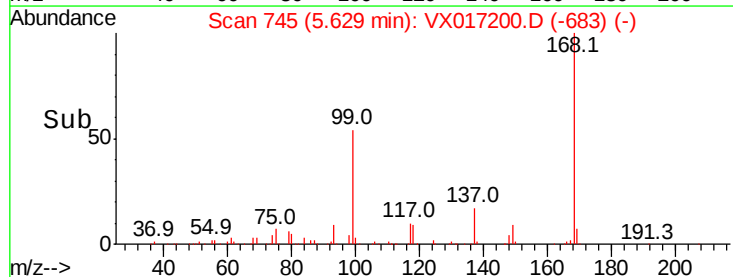
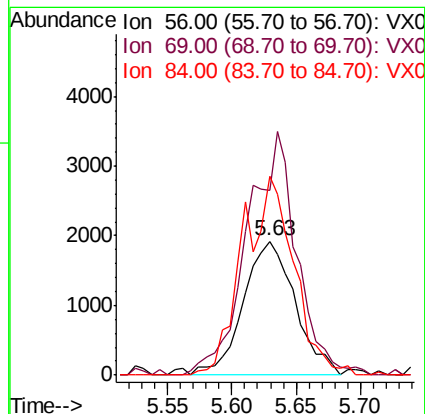
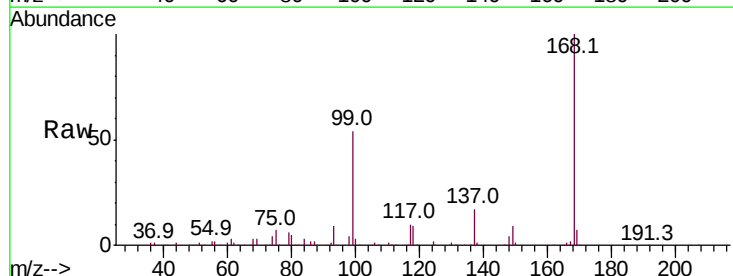
Tot Ion: 96 Resp: 27945
Ion Ratio Lower Upper
96 100
61 126.1 0.0 282.8
98 67.5 0.0 127.6

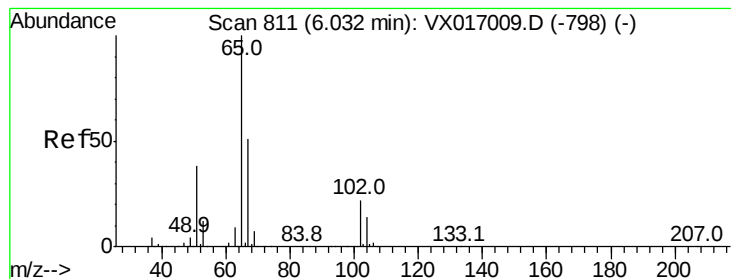


#31

Cyclohexane
Concen: 1.243 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017200.D
Acq: 07 Jul 2020 13:58

Tgt Ion: 56 Resp: 5349
Ion Ratio Lower Upper
56 100
69 135.2 25.0 37.4#
84 148.8 69.1 103.7#





#33

1,2-Dichloroethane-d4

Concen: 52.435 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

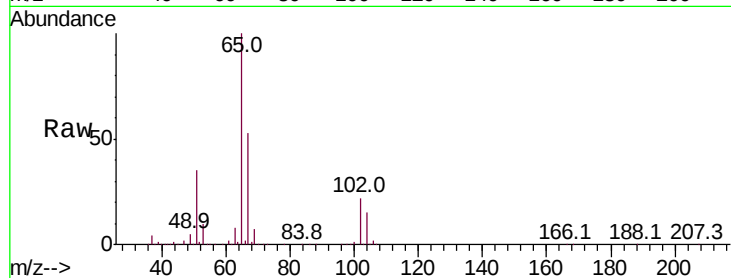
23BR-20200629

Tot Ion: 65 Resp: 167178

Ion Ratio Lower Upper

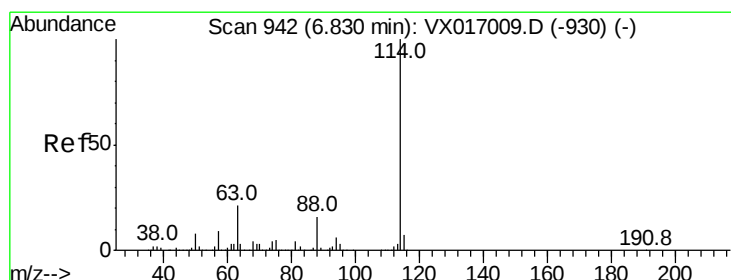
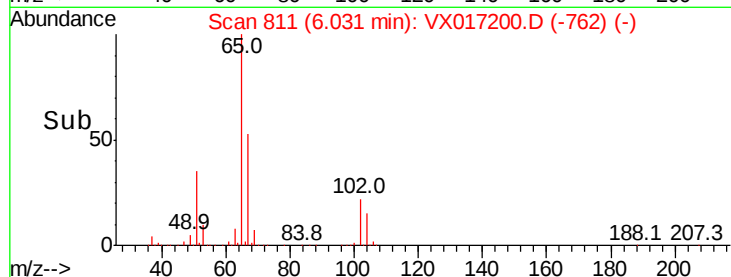
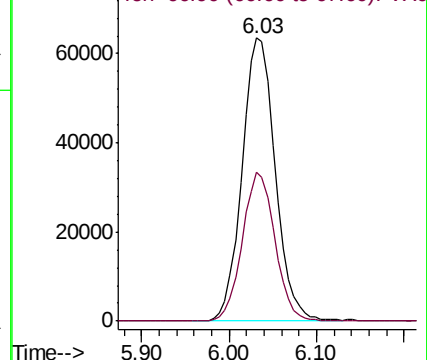
65 100

67 51.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

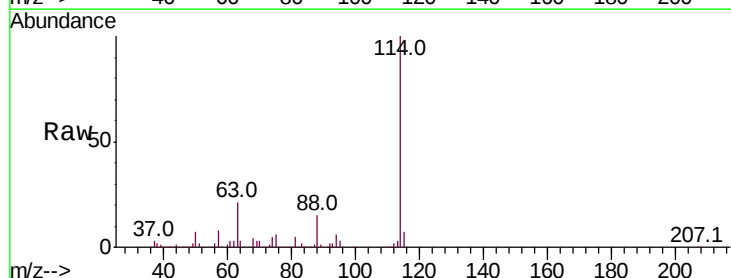
Tgt Ion:114 Resp: 426636

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.4

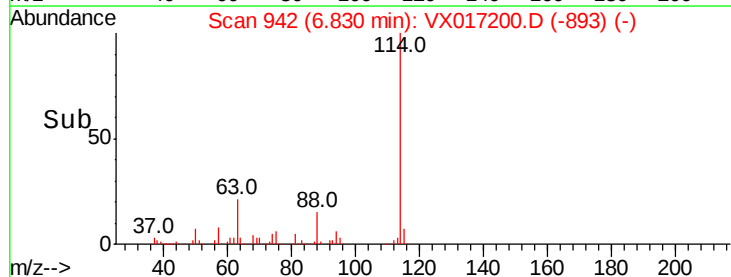
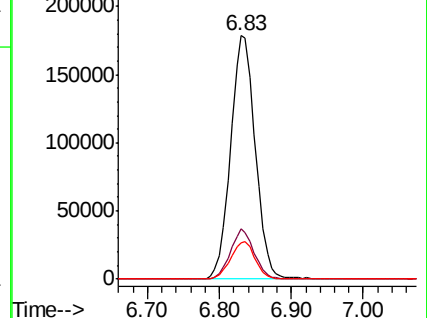
88 15.1 0.0 32.4

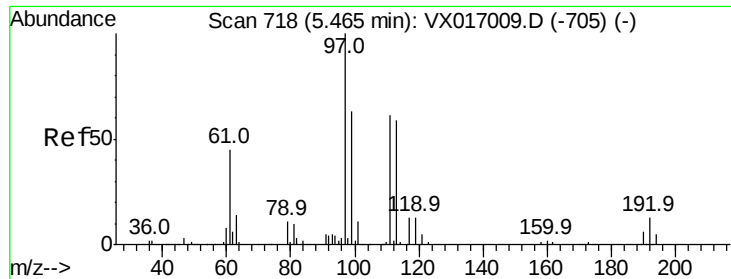


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

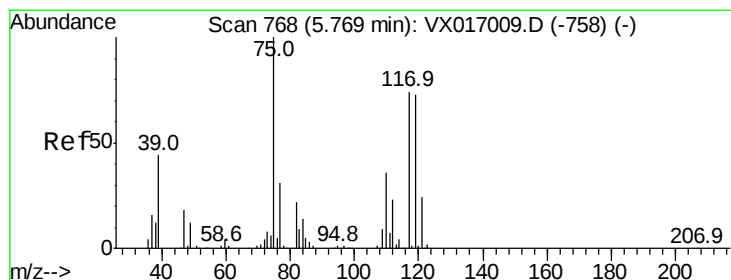
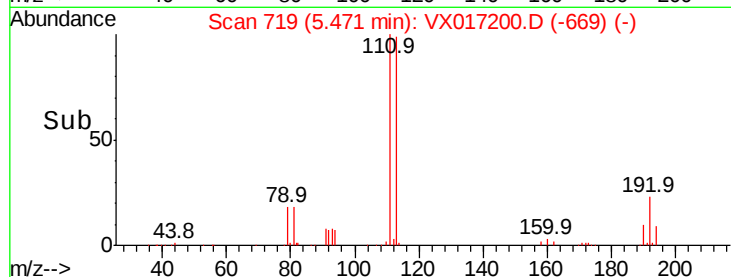
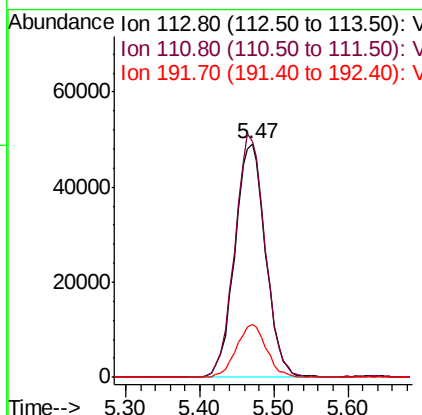
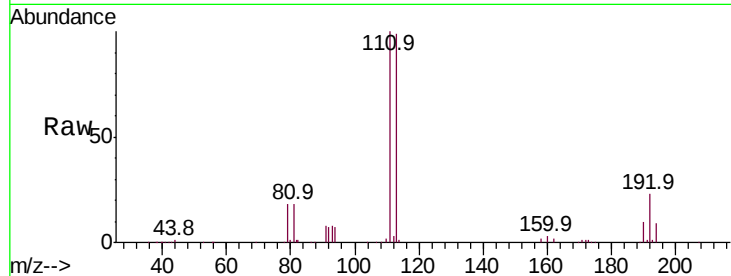




#35
 Dibromofluoromethane
 Concen: 52.747 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX017200.D
 Acq: 07 Jul 2020 13:58

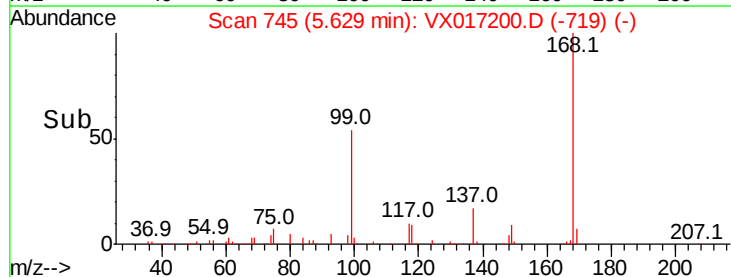
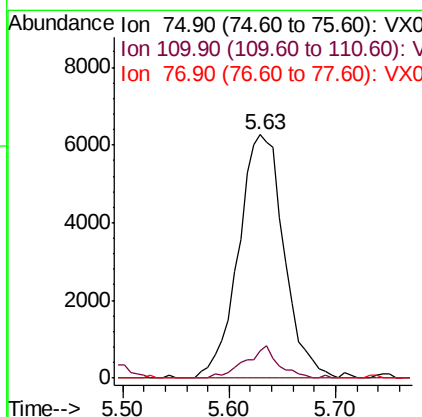
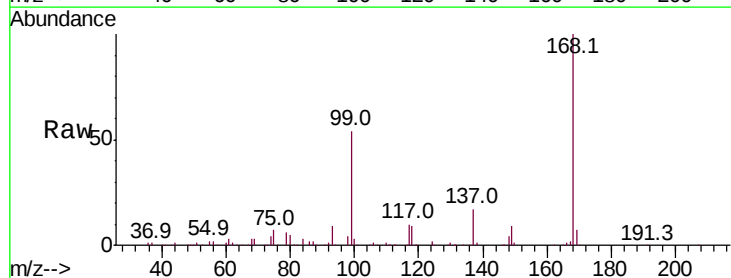
Instrument :
 MSVOA_X
 ClientSampleId :
 23BR-20200629

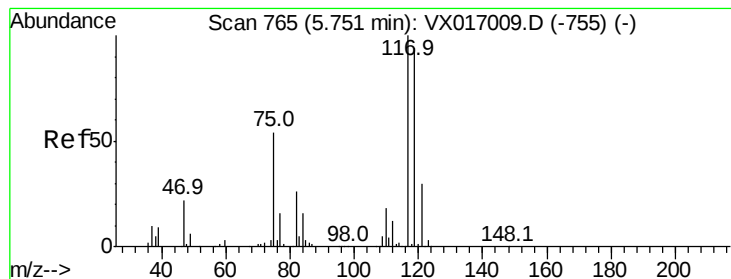
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.9	122.9
192	22.0	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 4.630 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017200.D
 Acq: 07 Jul 2020 13:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.1	54.1#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.685 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

23BR-20200629

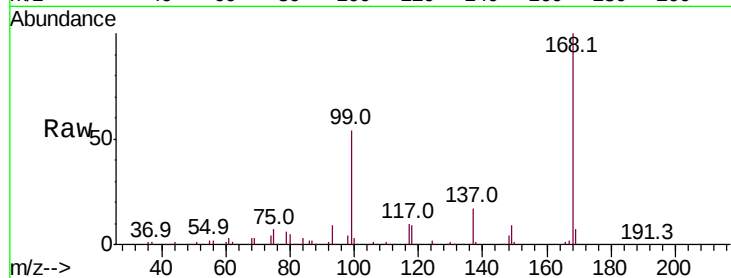
Tot Ion:117 Resp: 25248

Ion Ratio Lower Upper

117 100

119 8.9 75.4 113.0#

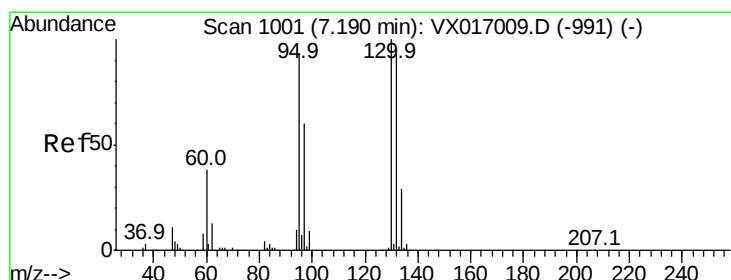
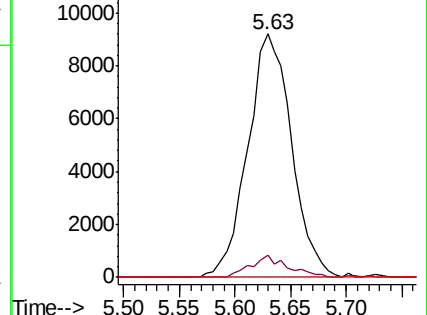
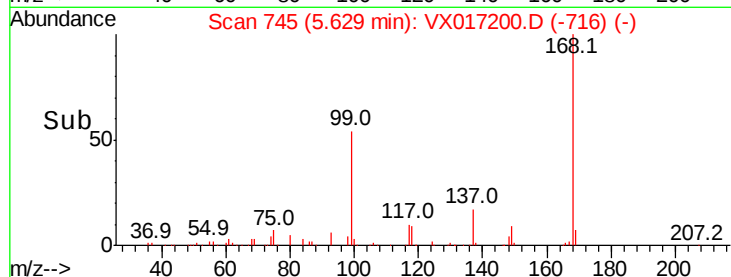
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 33.511 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017200.D

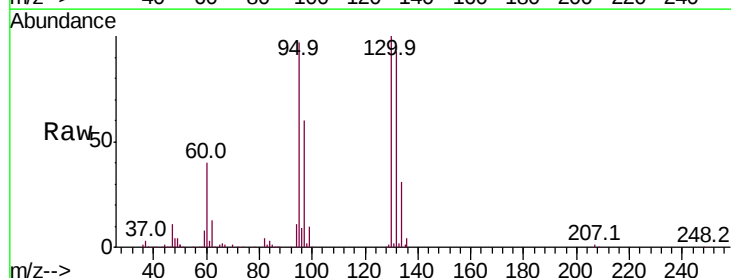
Acq: 07 Jul 2020 13:58

Tgt Ion:130 Resp: 109889

Ion Ratio Lower Upper

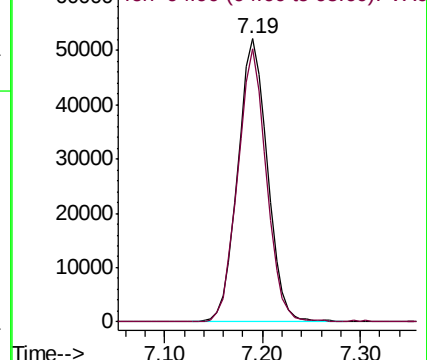
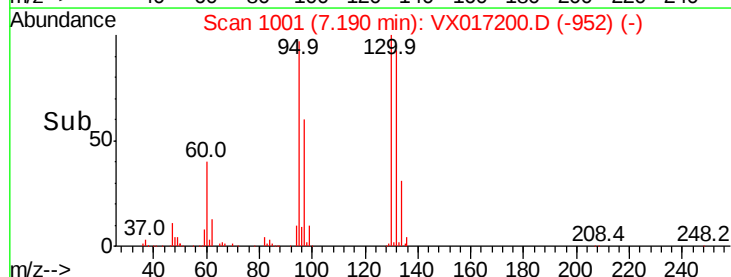
130 100

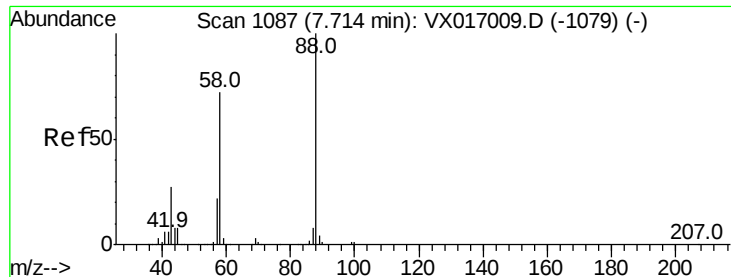
95 96.5 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.260 ug/l

RT: 7.63 min Scan# 1073

Delta R.T. -0.09 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

23BR-20200629

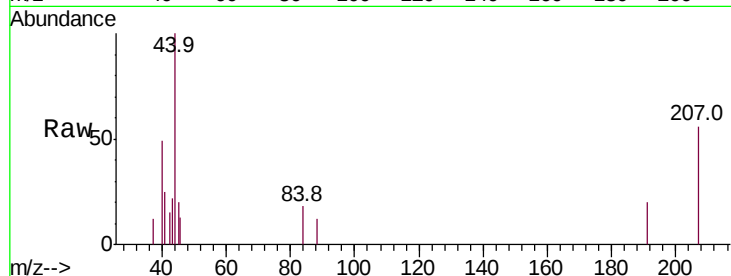
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 331.6 25.8 38.8#

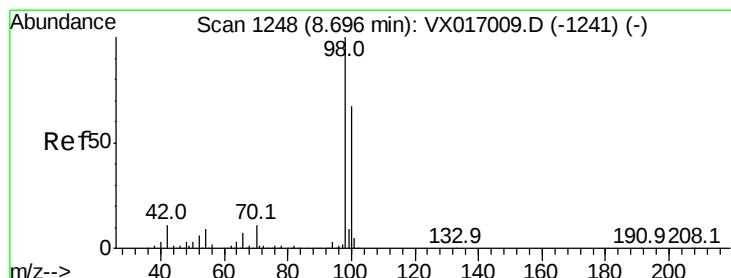
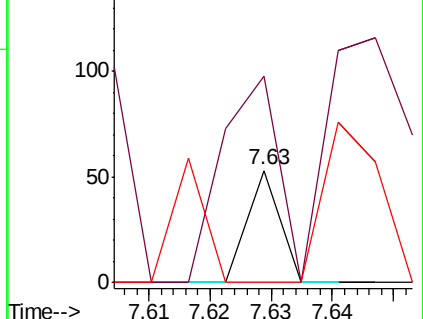
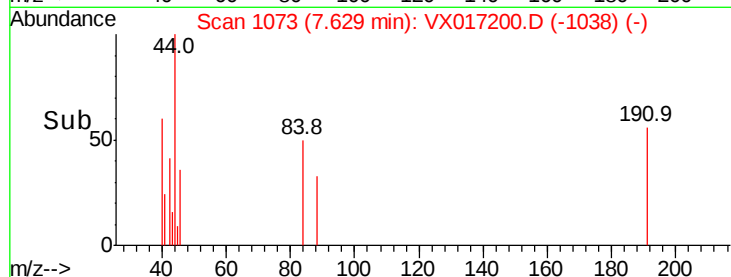
58 257.9 54.8 82.2#



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



#50

Toluene-d8

Concen: 51.832 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017200.D

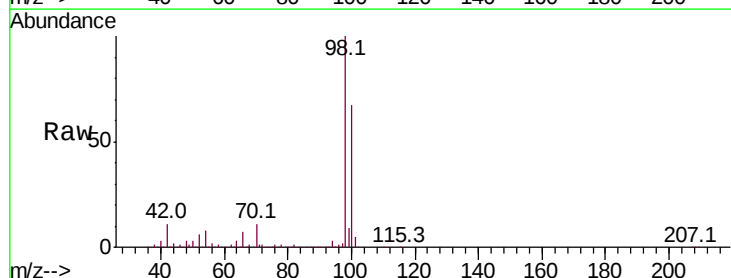
Acq: 07 Jul 2020 13:58

Tgt Ion: 98 Resp: 517260

Ion Ratio Lower Upper

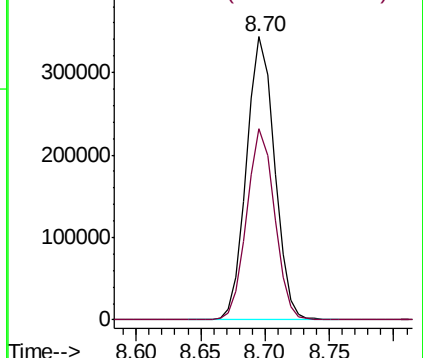
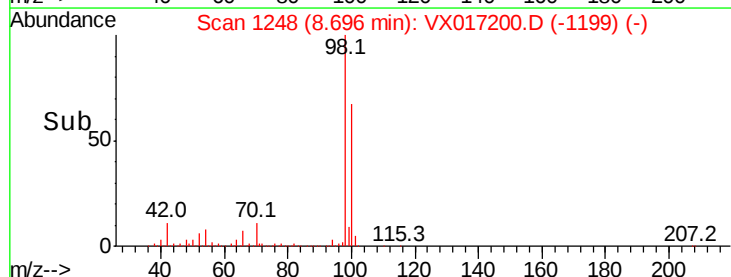
98 100

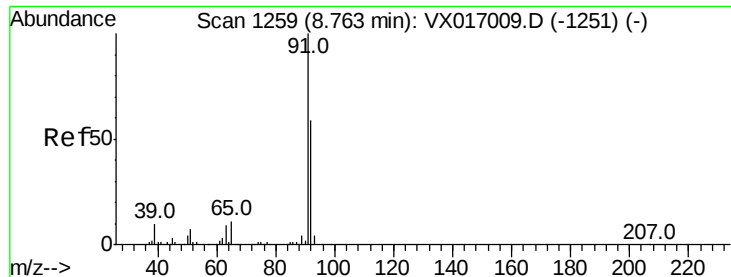
100 66.8 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.225 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

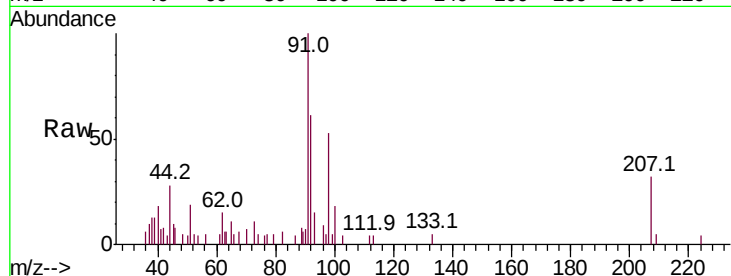
23BR-20200629

Tot Ion: 92 Resp: 1662

Ion Ratio Lower Upper

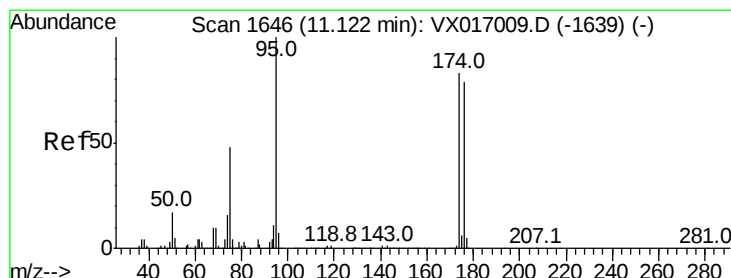
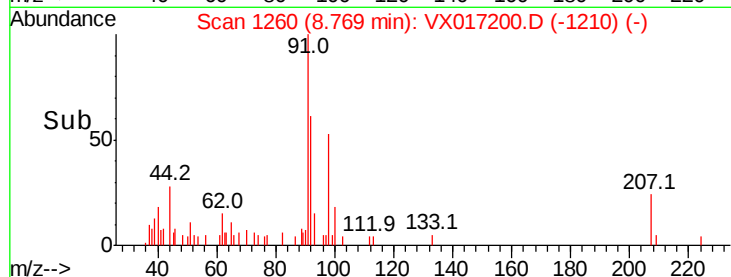
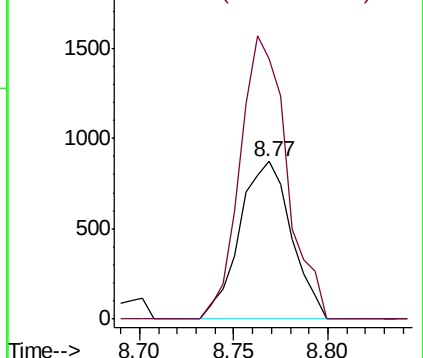
92 100

91 162.6 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 54.827 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

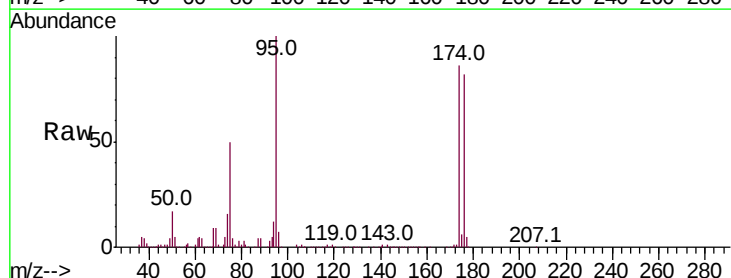
Tgt Ion: 95 Resp: 213887

Ion Ratio Lower Upper

95 100

174 85.4 0.0 164.0

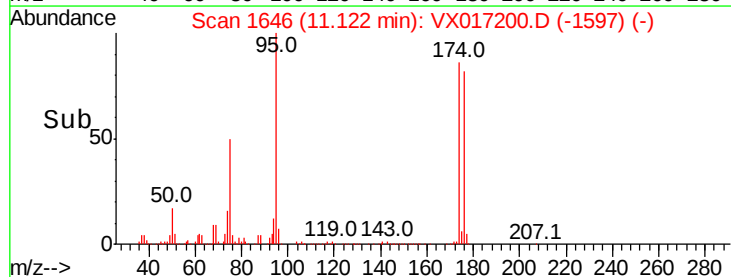
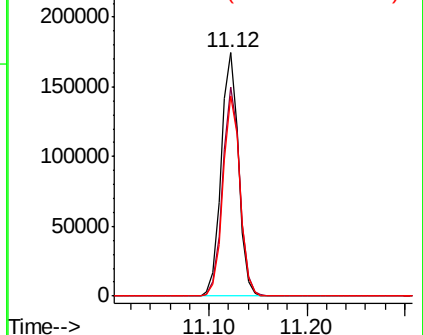
176 80.8 0.0 157.6

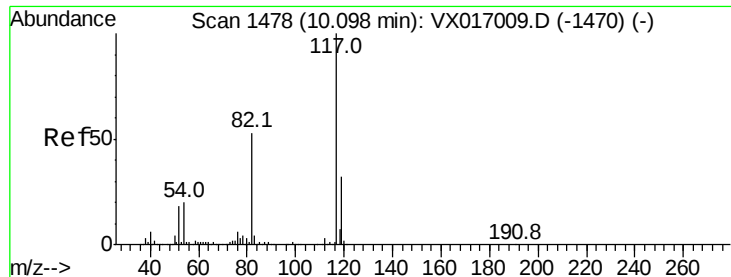


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

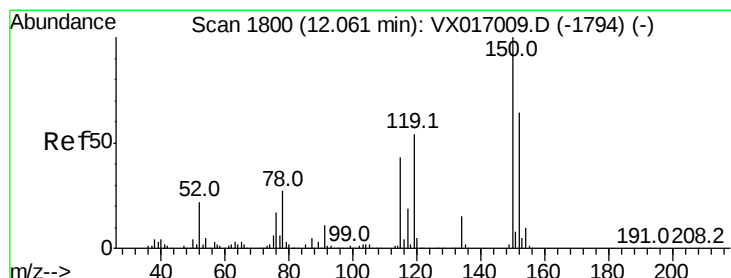
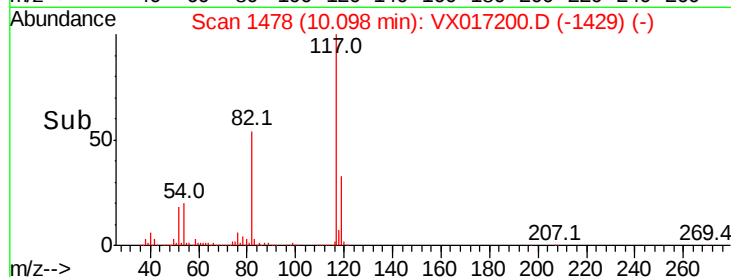
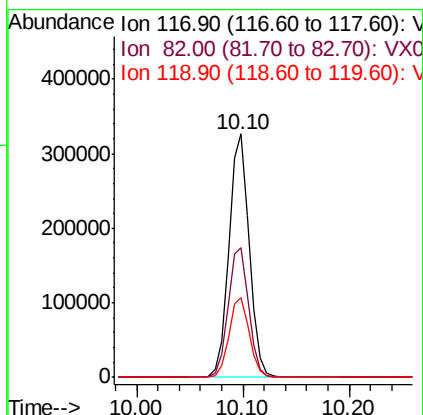
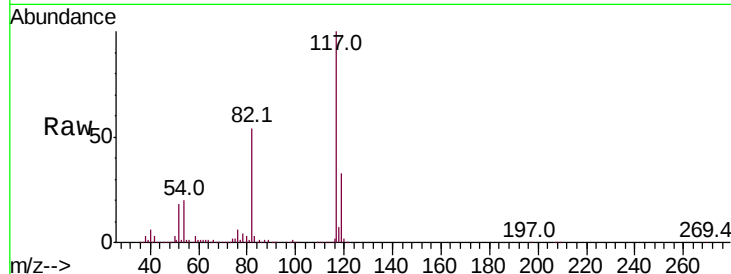




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017200.D
Acq: 07 Jul 2020 13:58

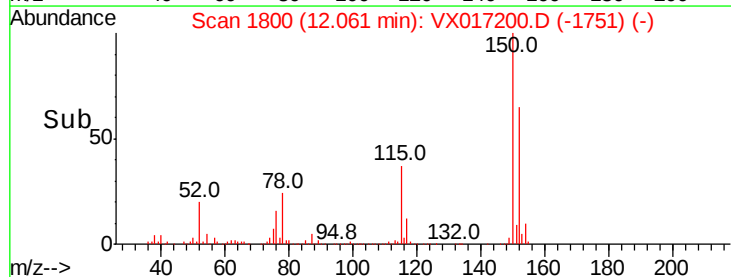
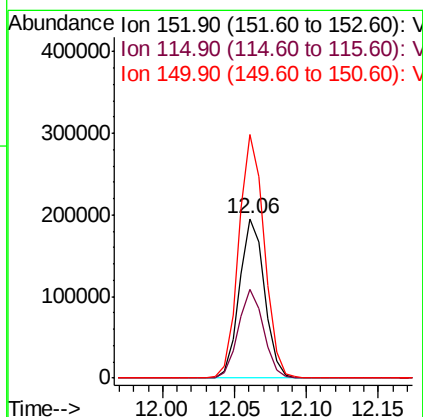
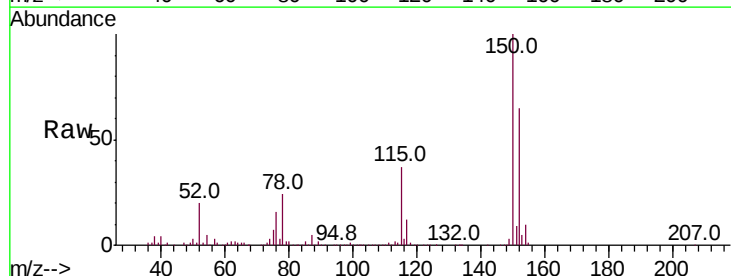
Instrument :
MSVOA_X
ClientSampleId :
23BR-20200629

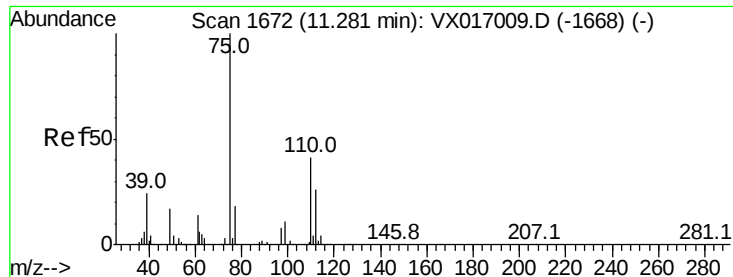
Tot Ion:117 Resp: 434741
Ion Ratio Lower Upper
117 100
82 53.5 42.6 63.8
119 32.6 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017200.D
Acq: 07 Jul 2020 13:58

Tgt Ion:152 Resp: 237011
Ion Ratio Lower Upper
152 100
115 56.2 40.9 122.7
150 154.7 0.0 351.6





#76

1,2,3-Trichloropropane

Concen: 23.229 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

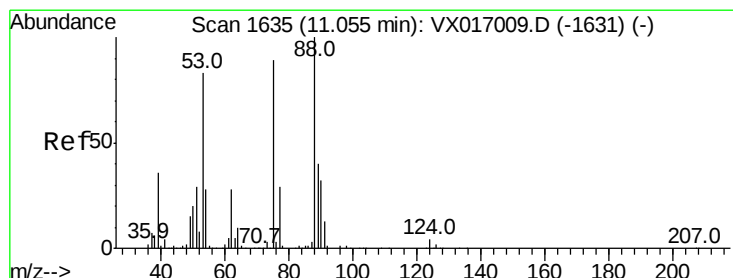
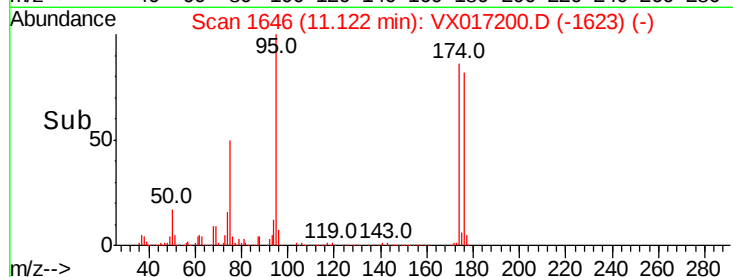
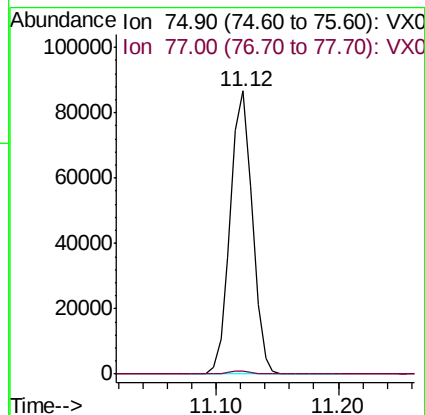
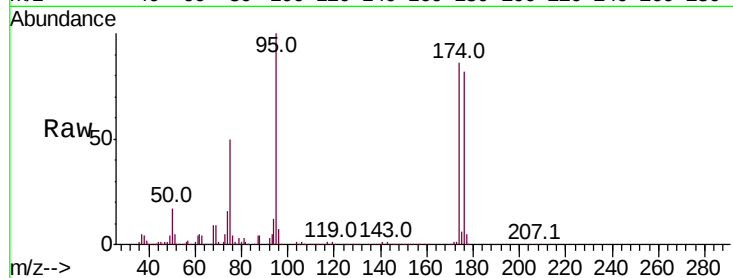
23BR-20200629

Tot Ion: 75 Resp: 108261

Ion Ratio Lower Upper

75 100

77 1.2 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.154 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

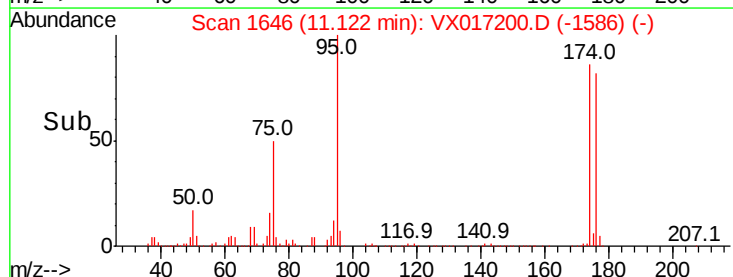
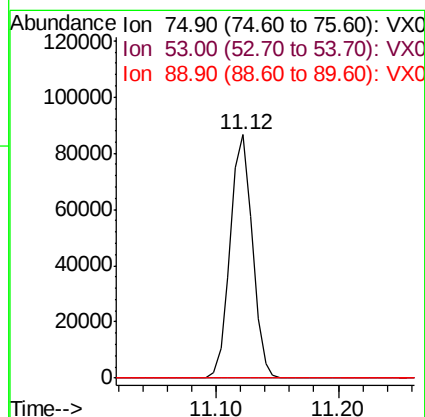
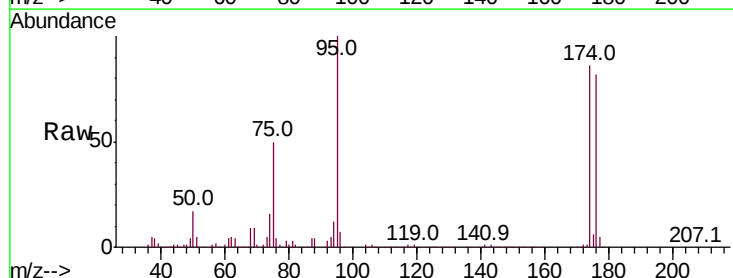
Tgt Ion: 75 Resp: 108261

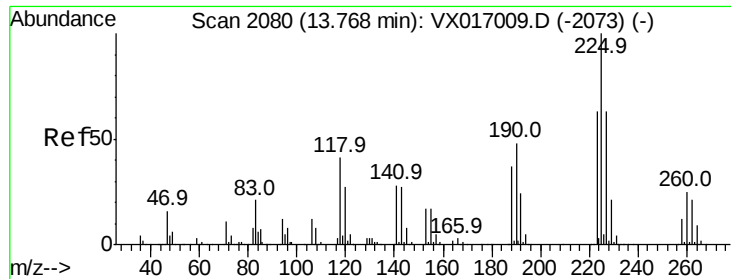
Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.0 37.0 55.4#





#94

Hexachlorobutadiene

Concen: 0.904 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX017200.D

Acq: 07 Jul 2020 13:58

Instrument :

MSVOA_X

ClientSampleId :

23BR-20200629

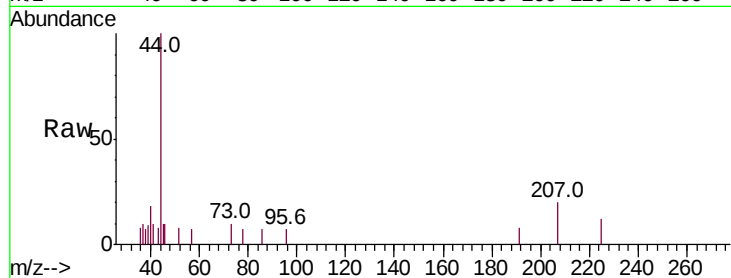
Tot Ion:225 Resp: 115

Ion Ratio Lower Upper

225 100

223 34.8 32.5 97.5

227 0.0 33.1 99.2#



Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

