

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070620\
 Data File : VX017180.D
 Acq On : 06 Jul 2020 19:50
 Operator : JC/SP
 Sample : L3159-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 47BR-20200629

Quant Time: Jul 07 06:53:23 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	5.64	168	267604	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	451524	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	473522	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	260093	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	173378	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
35) Dibromofluoromethane	5.47	113	147417	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
50) Toluene-d8	8.70	98	546539	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
62) 4-Bromofluorobenzene	11.12	95	236608	57.31	ug/l	0.00
Spiked Amount			Recovery	=	114.62%	

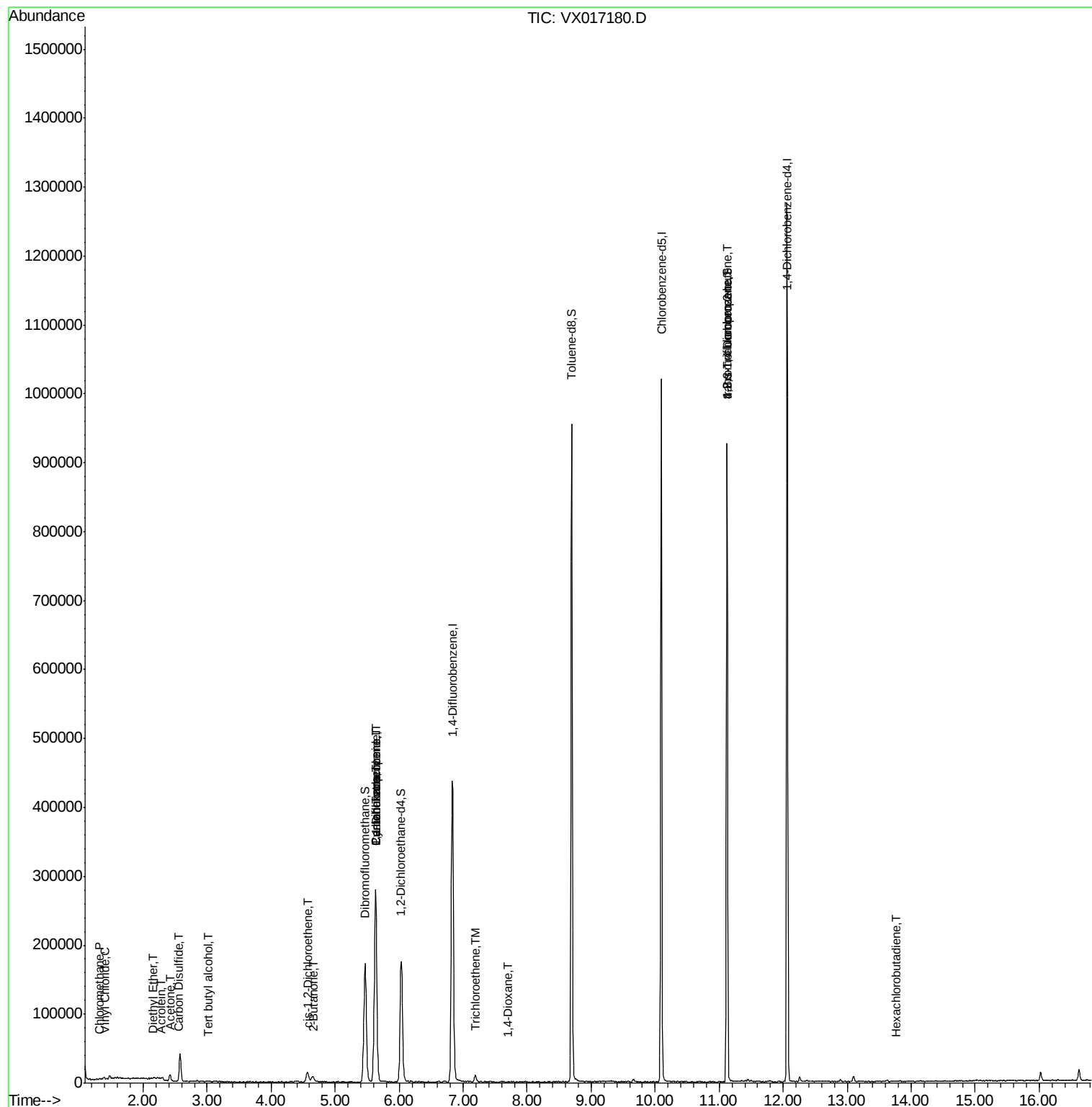
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1023	0.326	ug/l #	82
4) Vinyl Chloride	1.39	62	851	0.293	ug/l	93
8) Diethyl Ether	2.15	74	116	0.445	ug/l	71
11) Tert butyl alcohol	3.01	59	1288	2.047	ug/l	99
13) Acrolein	2.27	56	441	1.172	ug/l #	35
16) Acetone	2.42	43	9989	8.094	ug/l	96
17) Carbon Disulfide	2.55	76	1587	0.238	ug/l #	82
20) Methylene Chloride	2.84	84	548	Below Cal	#	71
25) 2-Butanone	4.65	43	2708	1.317	ug/l	99
27) cis-1,2-Dichloroethene	4.56	96	8915	2.678	ug/l	90
31) Cyclohexane	5.63	56	5301	1.190	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	19166	4.491	ug/l #	51
38) Carbon Tetrachloride	5.64	117	26526	5.643	ug/l #	17
44) Trichloroethene	7.19	130	3523	0.713	ug/l	86
49) 1,4-Dioxane	7.71	88	46	0.594	ug/l #	6
76) 1,2,3-Trichloropropane	11.12	75	116886	22.853	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	116886	59.182	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	837	Below Cal	#	1
94) Hexachlorobutadiene	13.76	225	63	0.874	ug/l #	37

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

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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: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

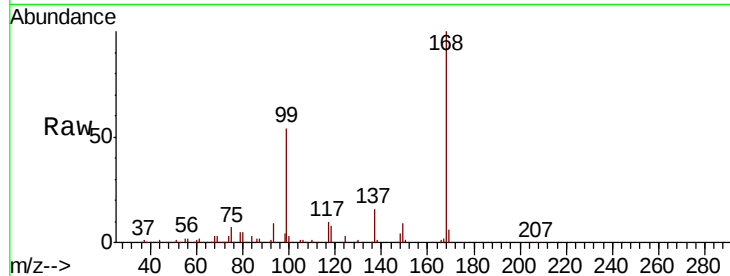
47BR-20200629

Tot Ion:168 Resp: 267604

Ion Ratio Lower Upper

168 100

99 54.1 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

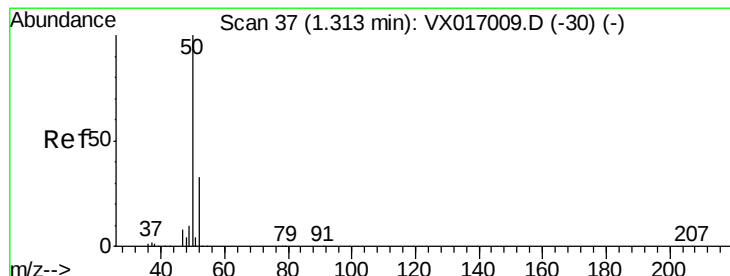
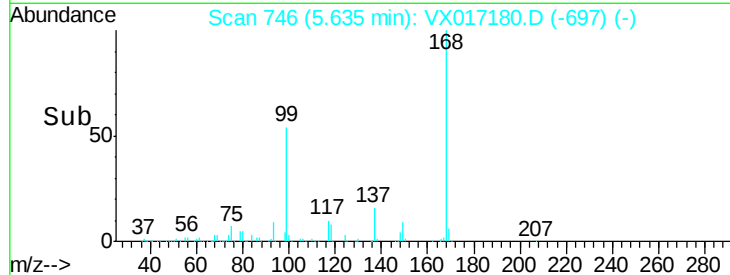
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.326 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017180.D

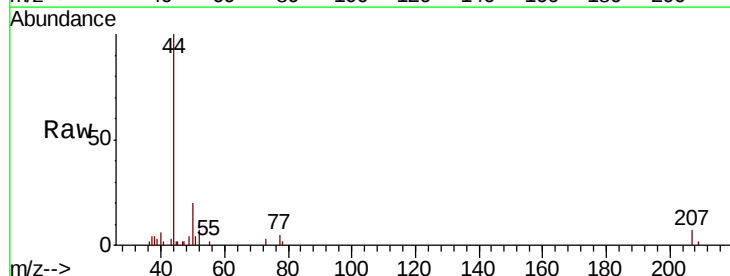
Acq: 06 Jul 2020 19:50

Tgt Ion: 50 Resp: 1023

Ion Ratio Lower Upper

50 100

52 22.4 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

800

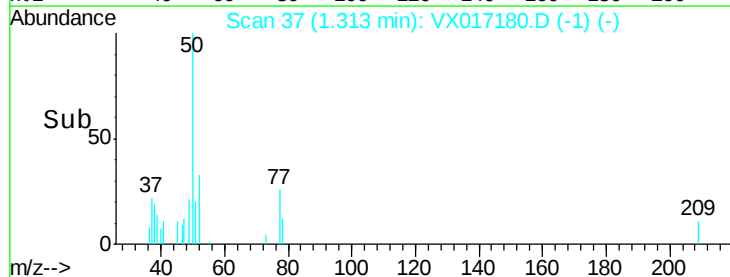
600

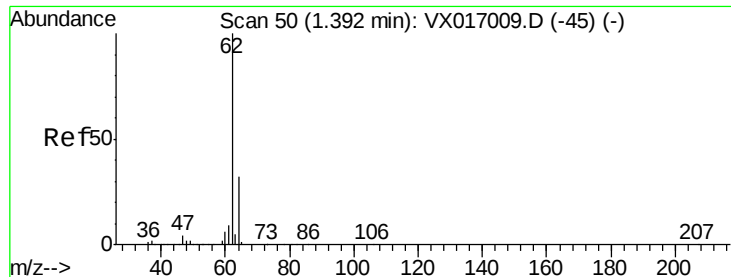
400

200

0

Time-->





#4

Vinyl Chloride

Concen: 0.293 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

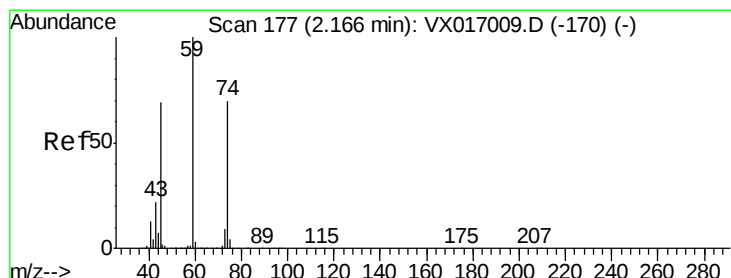
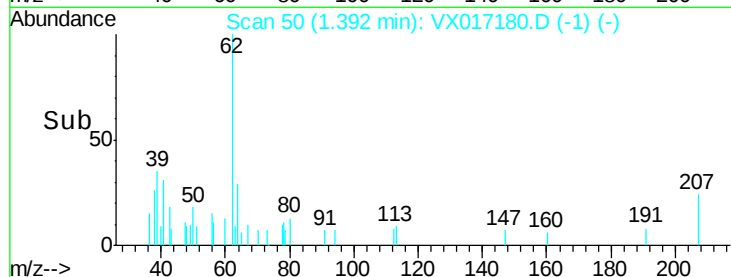
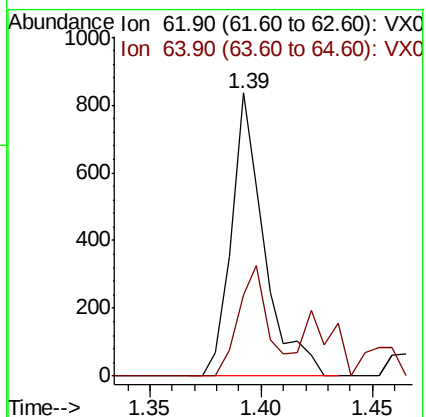
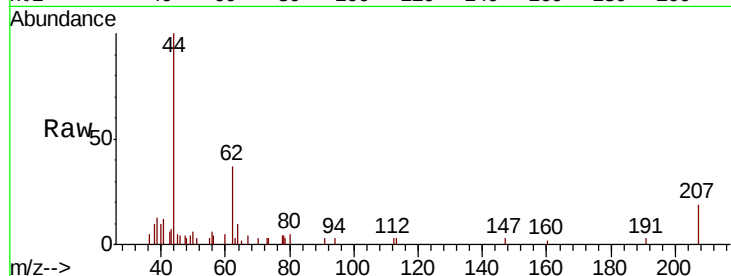
47BR-20200629

Tot Ion: 62 Resp: 851

Ion Ratio Lower Upper

62 100

64 28.5 25.9 38.9



#8

Diethyl Ether

Concen: 0.445 ug/l

RT: 2.15 min Scan# 174

Delta R.T. -0.02 min

Lab File: VX017180.D

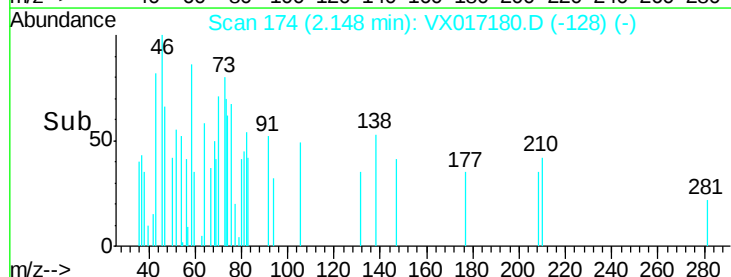
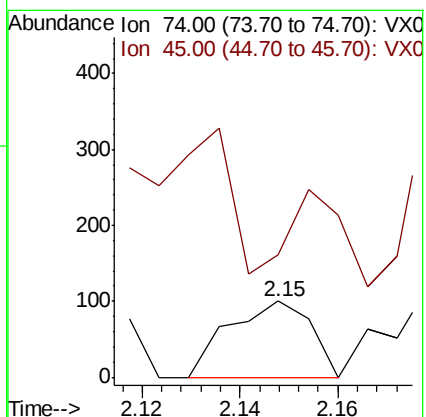
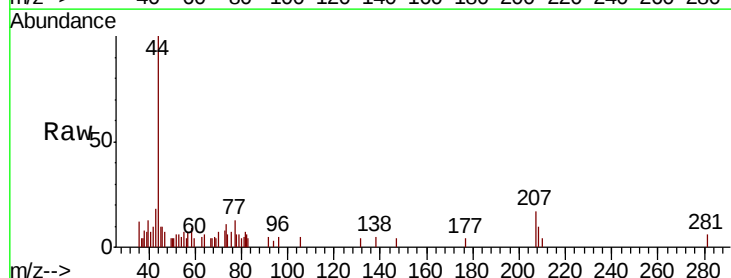
Acq: 06 Jul 2020 19:50

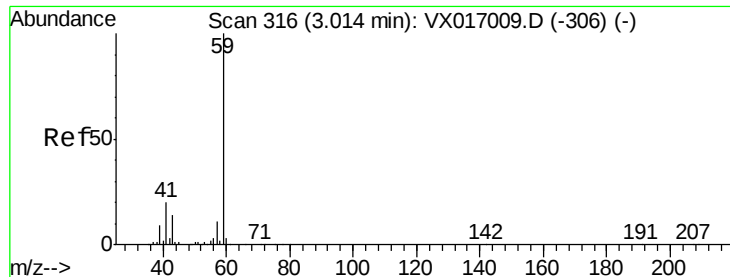
Tgt Ion: 74 Resp: 116

Ion Ratio Lower Upper

74 100

45 70.7 49.8 149.3

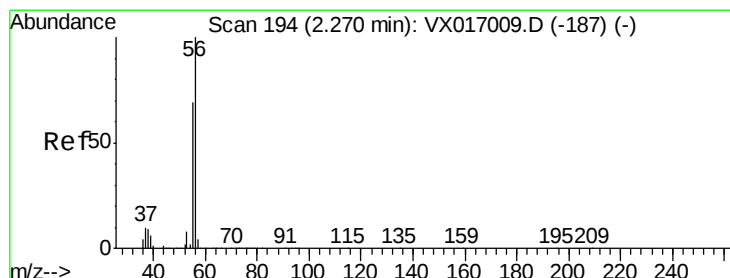
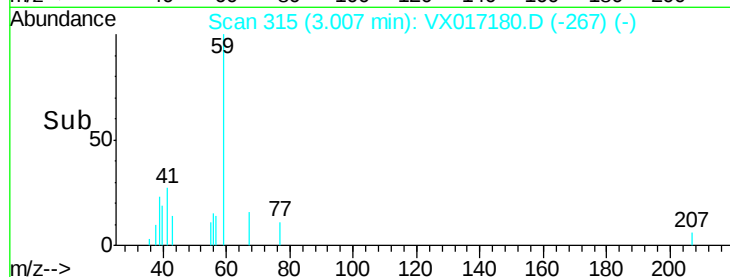
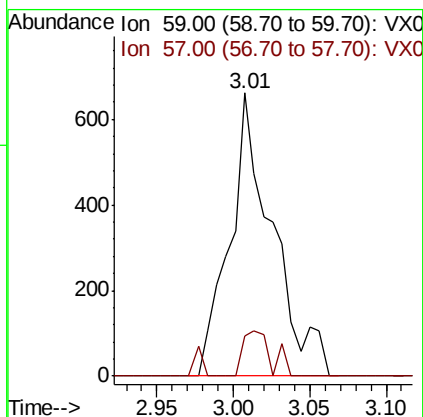
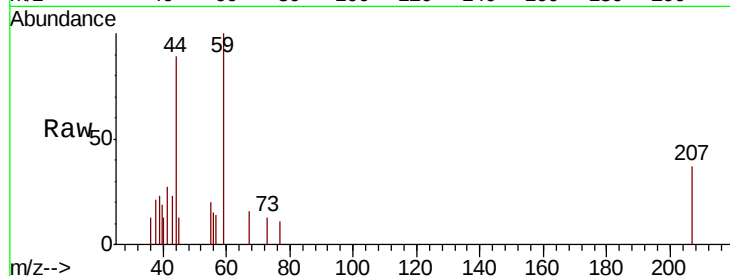




#11
Tert butyl alcohol
Concen: 2.047 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX017180.D
Acq: 06 Jul 2020 19:50

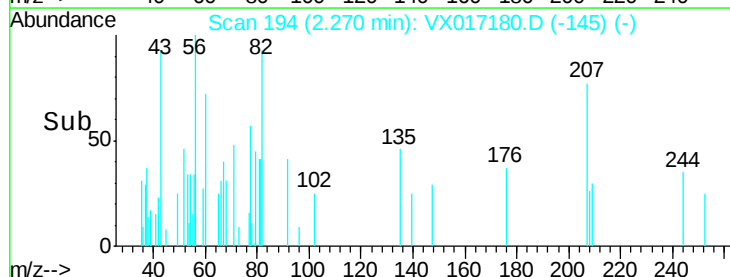
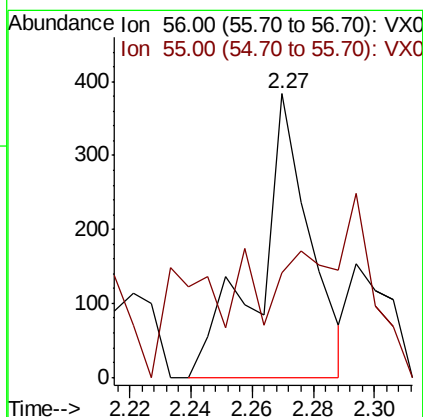
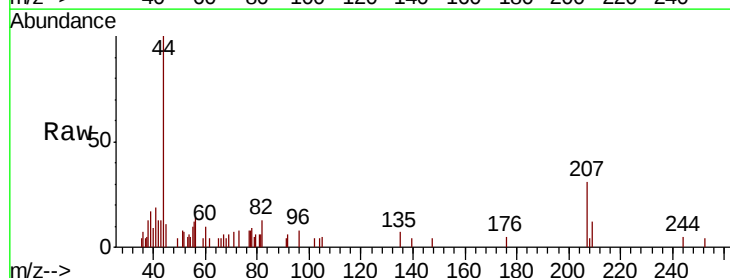
Instrument :
MSVOA_X
ClientSampleId :
47BR-20200629

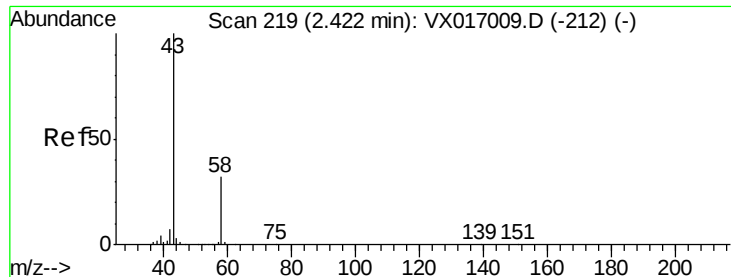
Tot Ion: 59 Resp: 1288
Ion Ratio Lower Upper
59 100
57 10.6 8.2 12.2



#13
Acrolein
Concen: 1.172 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.00 min
Lab File: VX017180.D
Acq: 06 Jul 2020 19:50

Tgt Ion: 56 Resp: 441
Ion Ratio Lower Upper
56 100
55 16.8 55.7 83.5#





#16

Acetone

Concen: 8.094 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

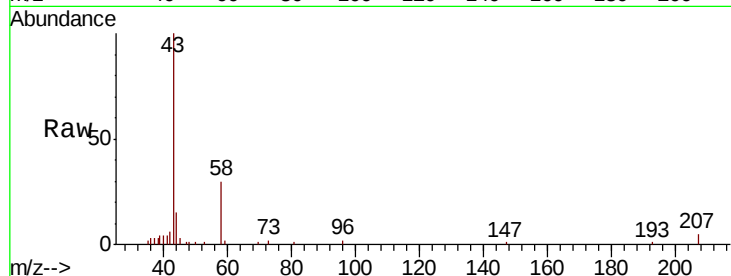
47BR-20200629

Tot Ion: 43 Resp: 9989

Ion Ratio Lower Upper

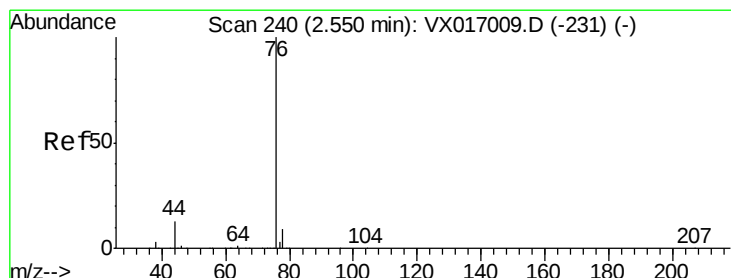
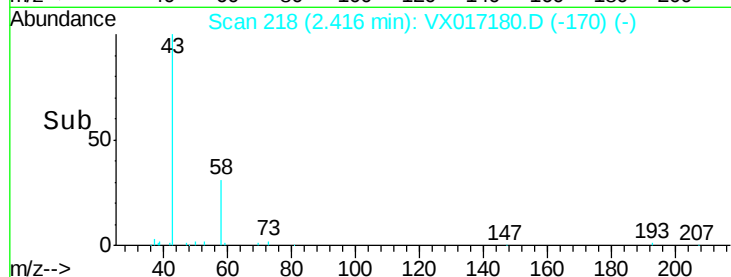
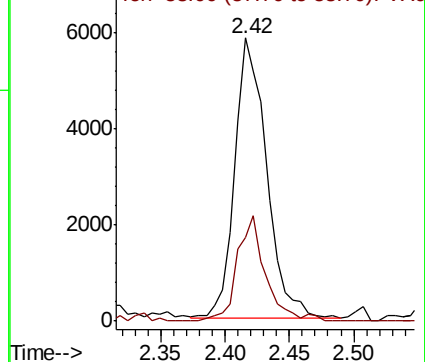
43 100

58 30.0 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.238 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017180.D

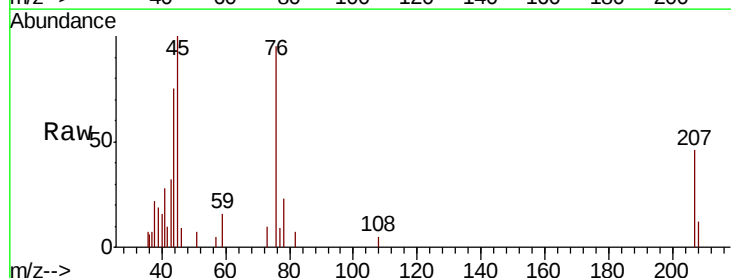
Acq: 06 Jul 2020 19:50

Tgt Ion: 76 Resp: 1587

Ion Ratio Lower Upper

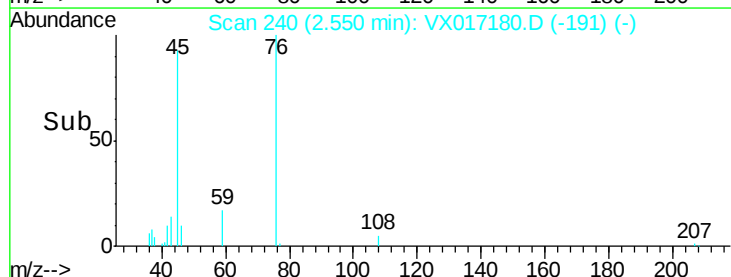
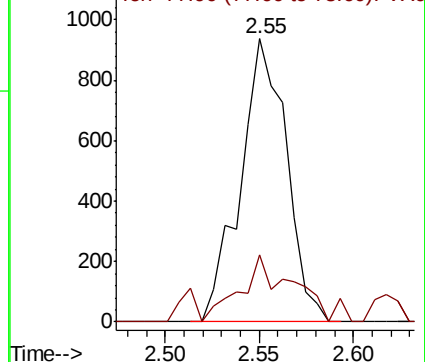
76 100

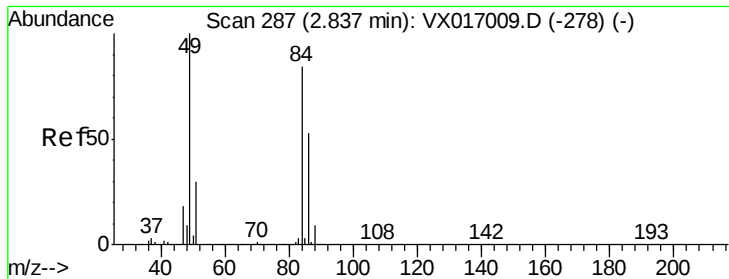
78 15.4 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

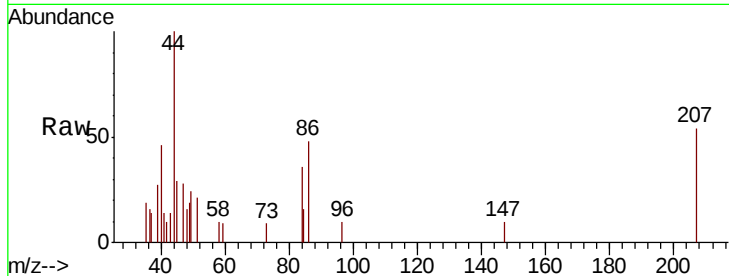




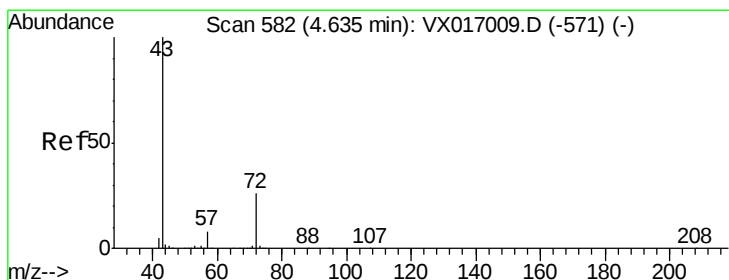
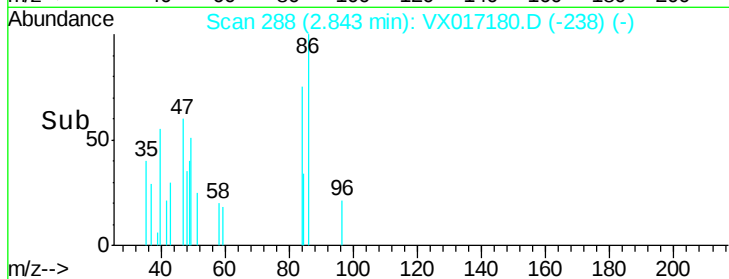
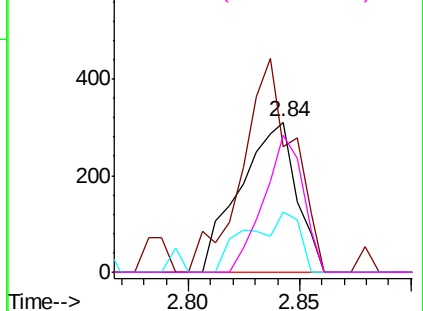
#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX017180.D
Acq: 06 Jul 2020 19:50

Instrument :
MSVOA_X
ClientSampleId :
47BR-20200629

Tot Ion: 84 Resp: 548
Ion Ratio Lower Upper
84 100
49 83.3 94.7 142.1#
51 39.9 28.6 42.8
86 91.3 50.5 75.7#

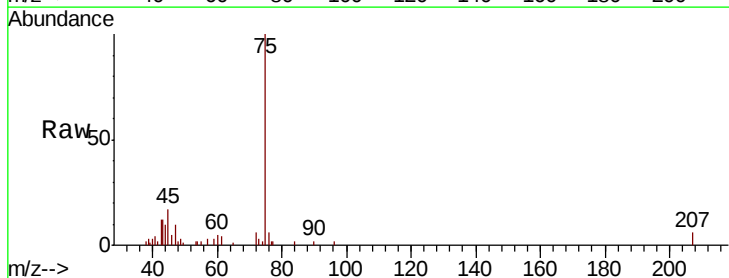


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

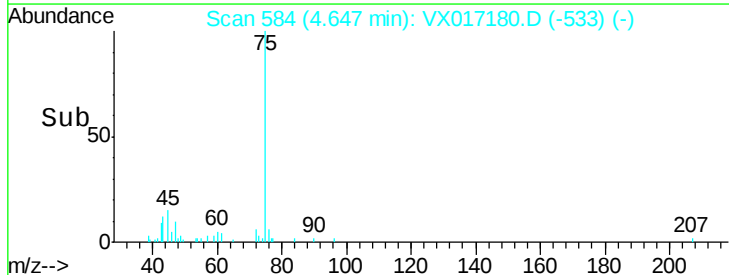
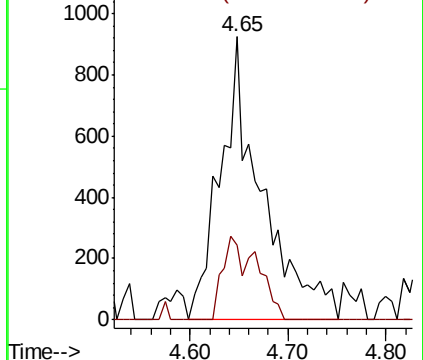


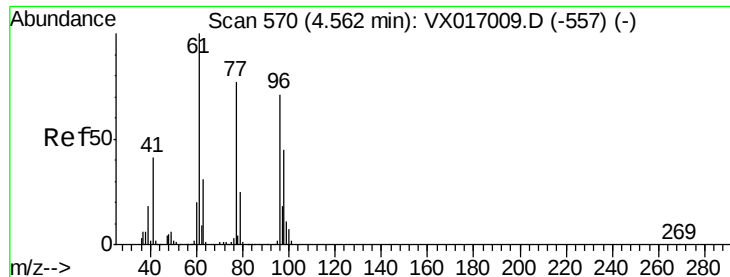
#25
2-Butanone
Concen: 1.317 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017180.D
Acq: 06 Jul 2020 19:50

Tgt Ion: 43 Resp: 2708
Ion Ratio Lower Upper
43 100
72 26.3 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



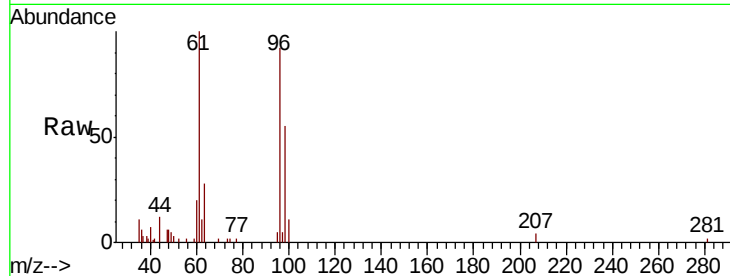


#27

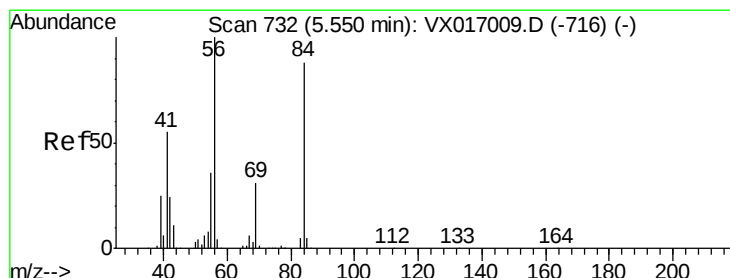
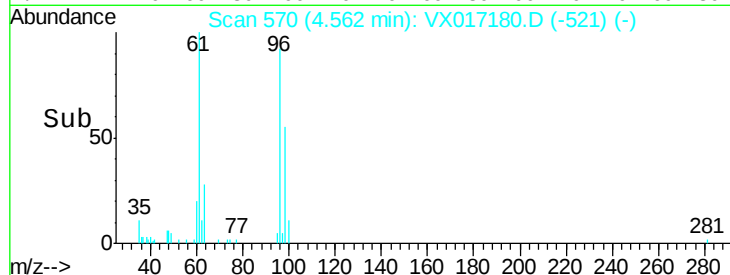
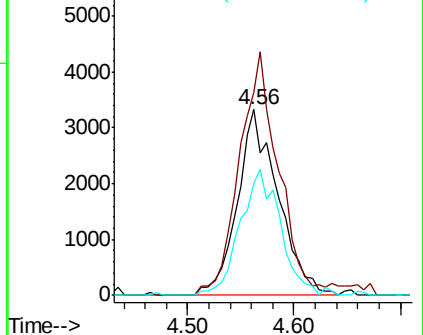
cis-1,2-Dichloroethene
Concen: 2.678 ug/l
RT: 4.56 min Scan# 570
Delta R.T. -0.00 min
Lab File: VX017180.D
Acq: 06 Jul 2020 19:50

Instrument :
MSVOA_X
ClientSampleId :
47BR-20200629

Tot Ion	Ratio	Lower	Upper
96	100		
61	125.2	0.0	282.8
98	66.7	0.0	127.6



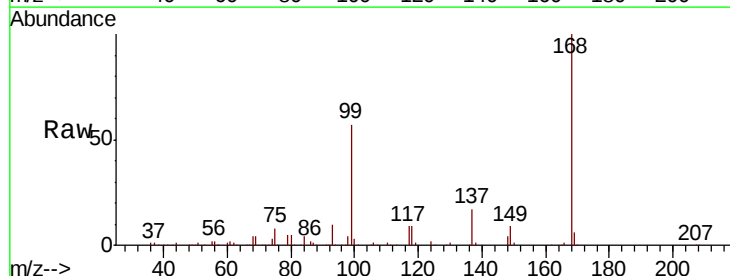
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



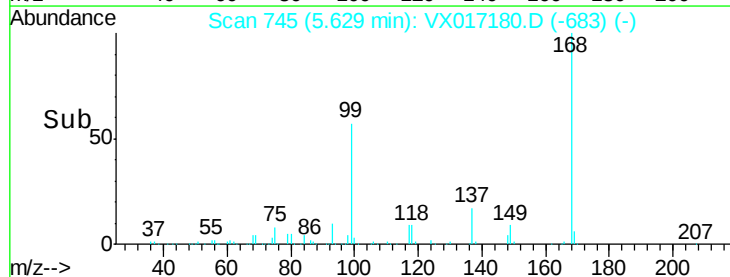
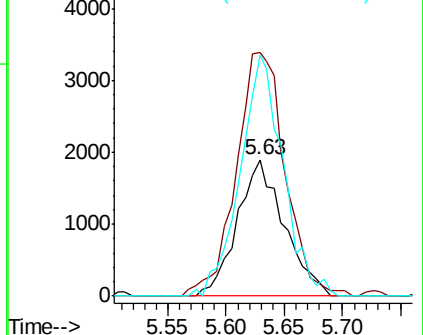
#31

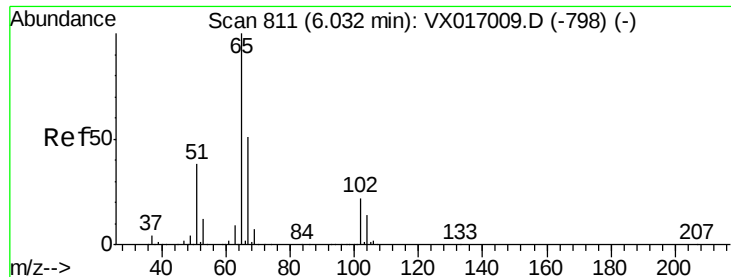
Cyclohexane
Concen: 1.190 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017180.D
Acq: 06 Jul 2020 19:50

Tgt Ion	Ratio	Lower	Upper
56	100		
69	174.9	25.0	37.4#
84	176.8	69.1	103.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

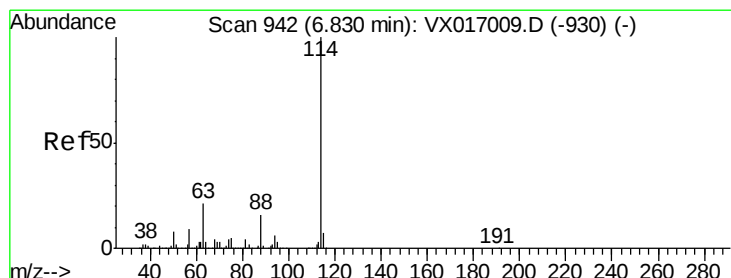
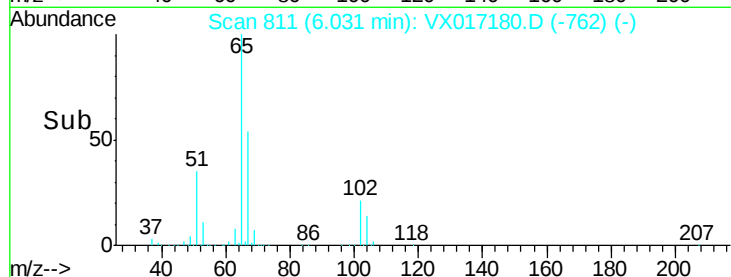
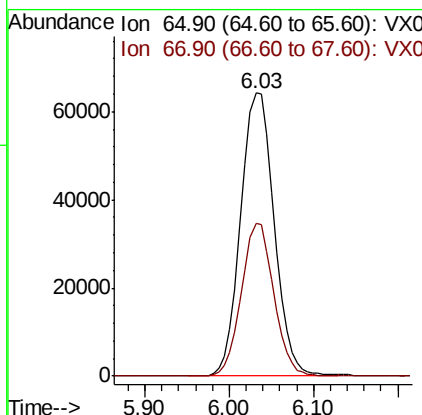
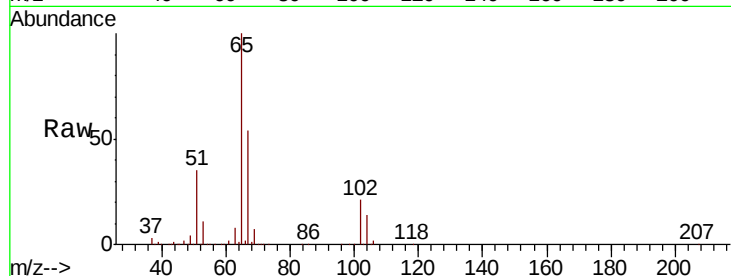




#33
 1,2-Dichloroethane-d4
 Concen: 52.554 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.00 min
 Lab File: VX017180.D
 Acq: 06 Jul 2020 19:50

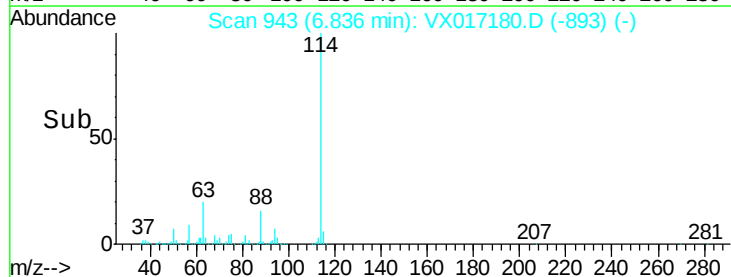
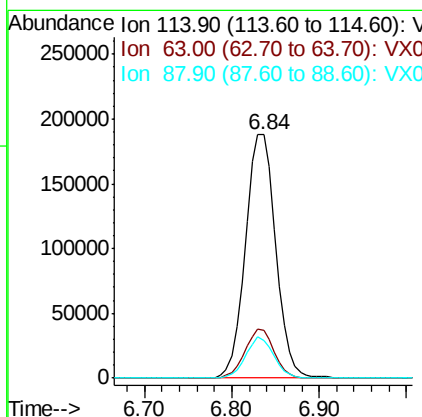
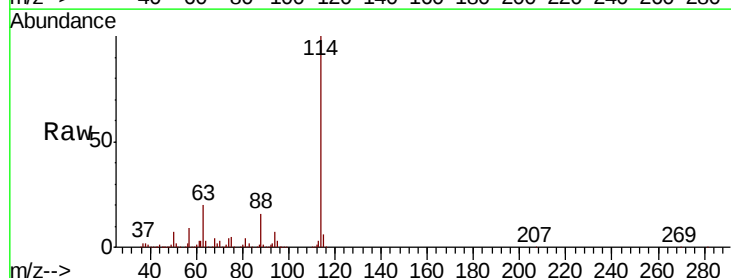
Instrument :
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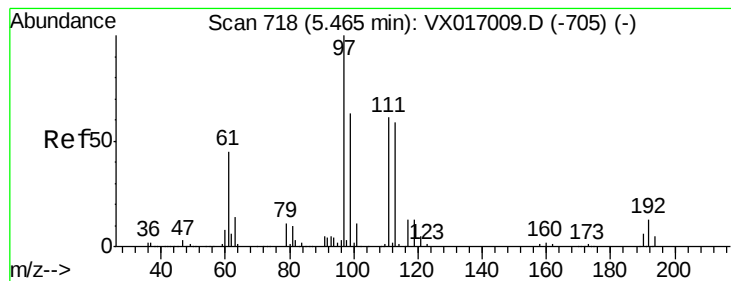
Tot Ion: 65 Resp: 173378
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017180.D
 Acq: 06 Jul 2020 19:50

Tgt Ion: 114 Resp: 451524
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.4
 88 15.7 0.0 32.4





#35

Dibromofluoromethane

Concen: 51.613 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

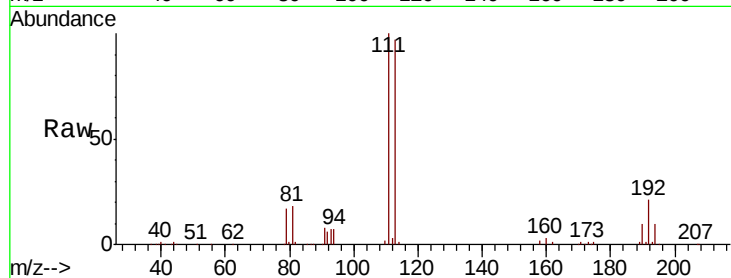
Tot Ion:113 Resp: 147417

Ion Ratio Lower Upper

113 100

111 102.4 81.9 122.9

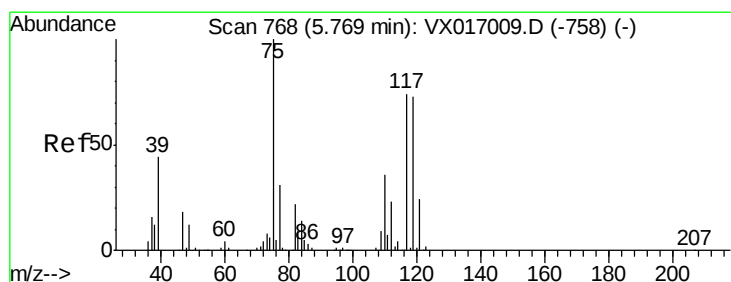
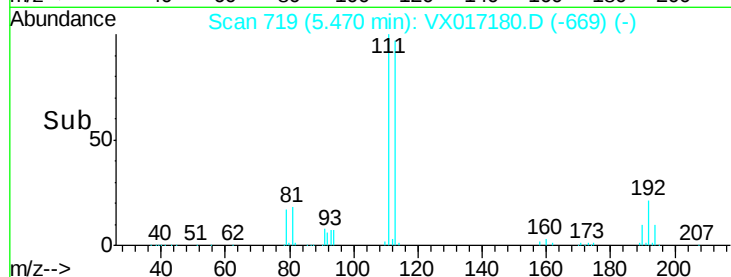
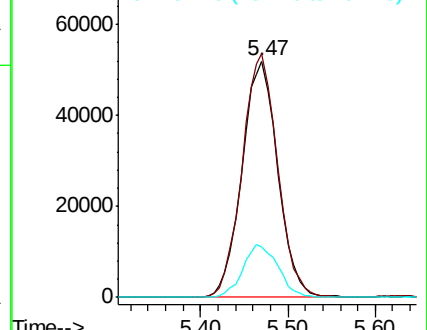
192 22.1 16.7 25.1



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: 4.491 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

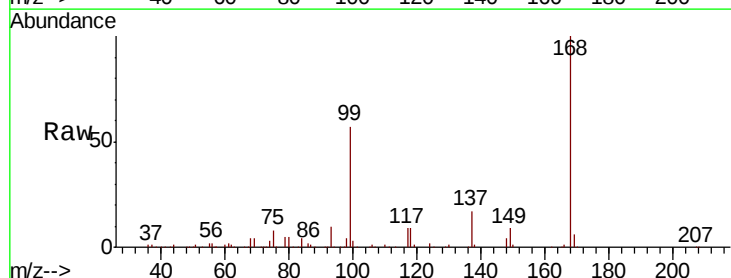
Tgt Ion: 75 Resp: 19166

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.1#

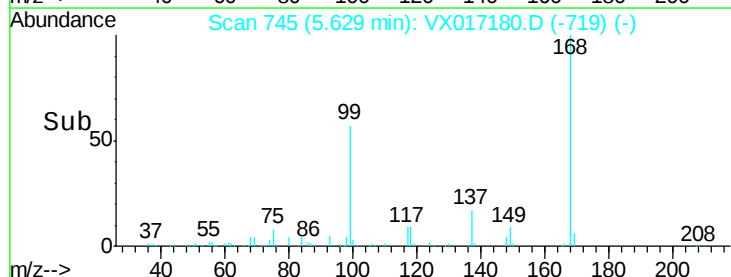
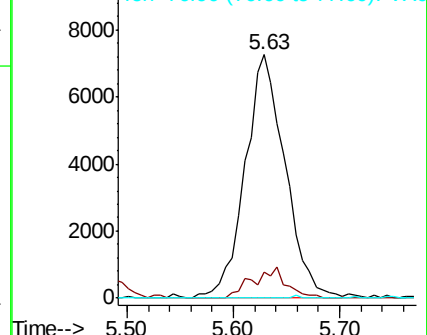
77 0.0 24.6 37.0#

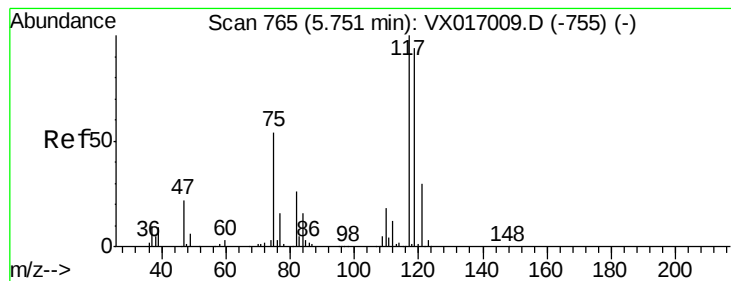


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.643 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

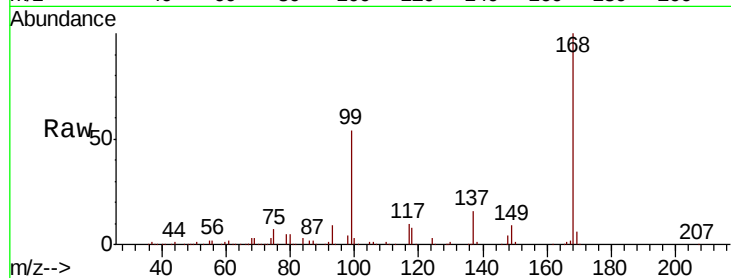
Tot Ion:117 Resp: 26526

Ion Ratio Lower Upper

117 100

119 4.8 75.4 113.0#

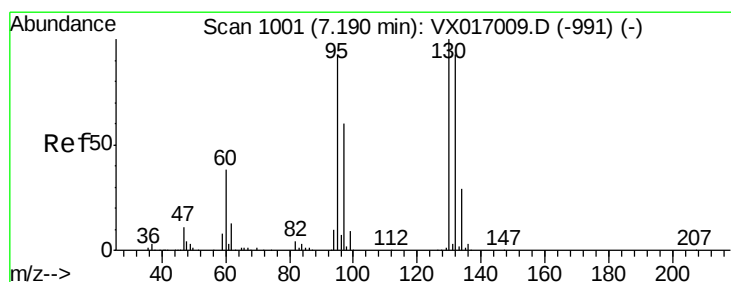
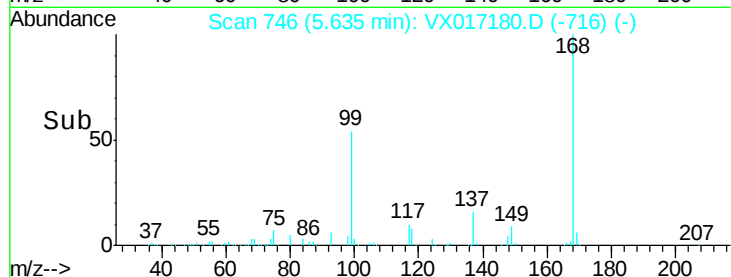
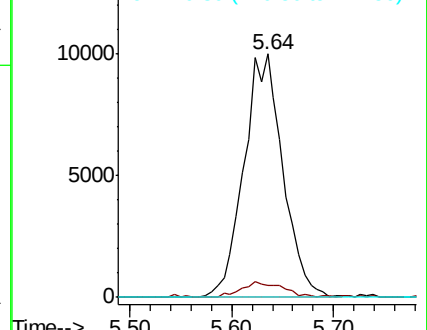
121 0.0 23.8 35.6#



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: 0.713 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX017180.D

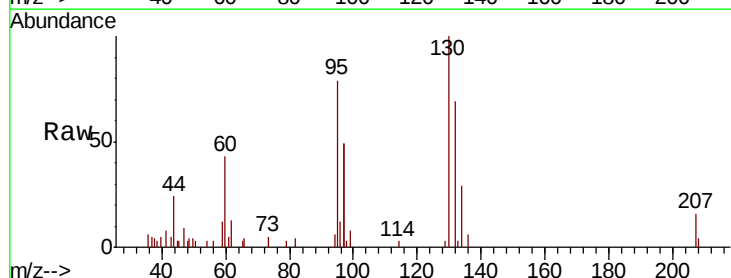
Acq: 06 Jul 2020 19:50

Tgt Ion:130 Resp: 3523

Ion Ratio Lower Upper

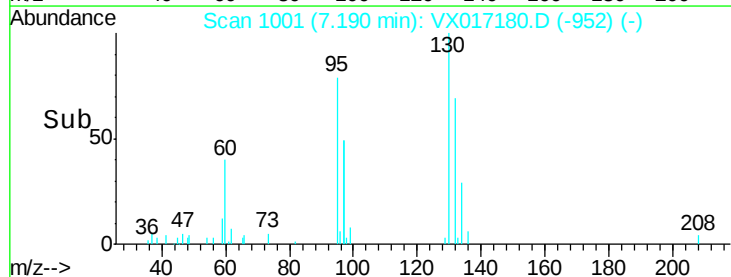
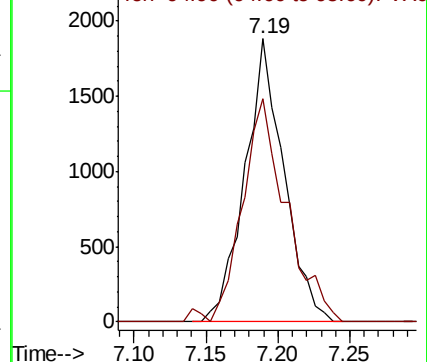
130 100

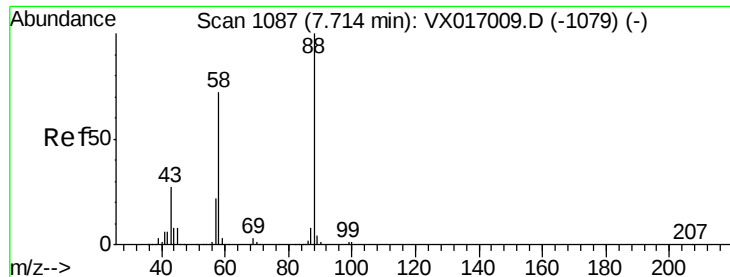
95 78.9 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.594 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

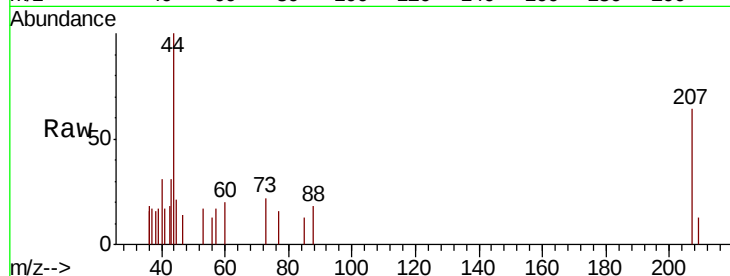
Tot Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.8#

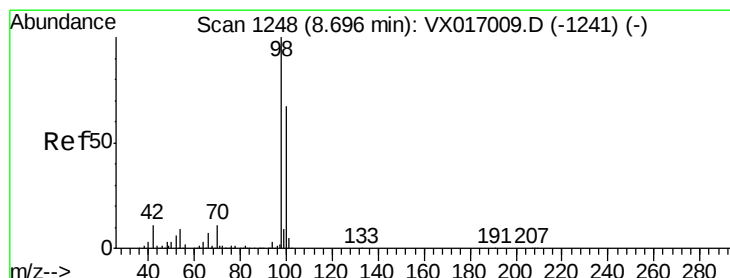
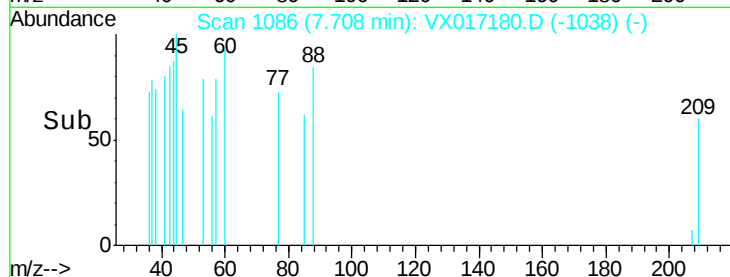
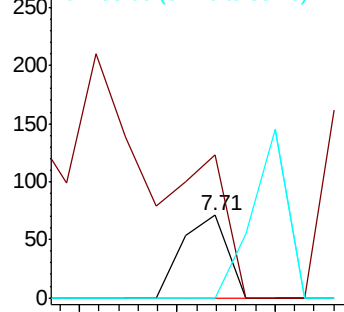
58 158.7 54.8 82.2#



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: 51.747 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017180.D

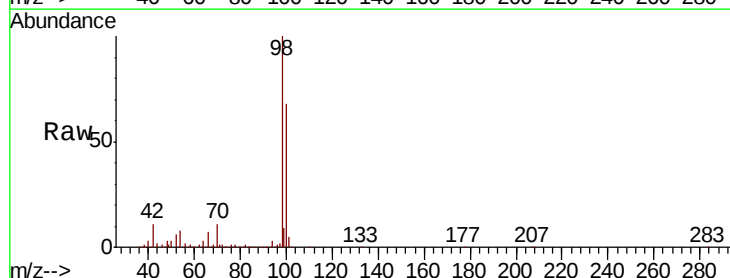
Acq: 06 Jul 2020 19:50

Tgt Ion: 98 Resp: 546539

Ion Ratio Lower Upper

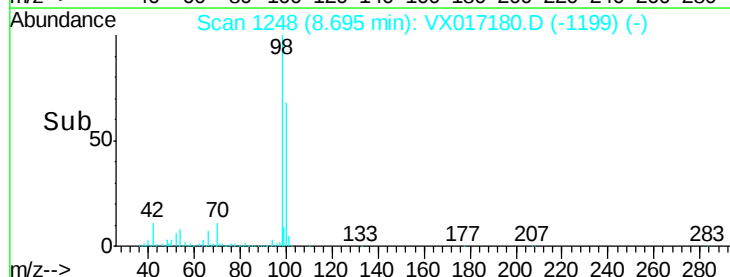
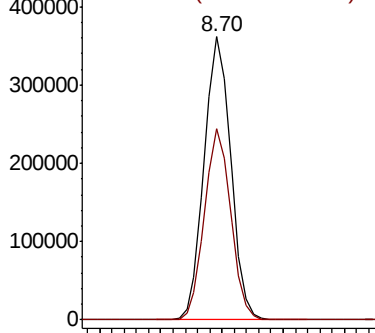
98 100

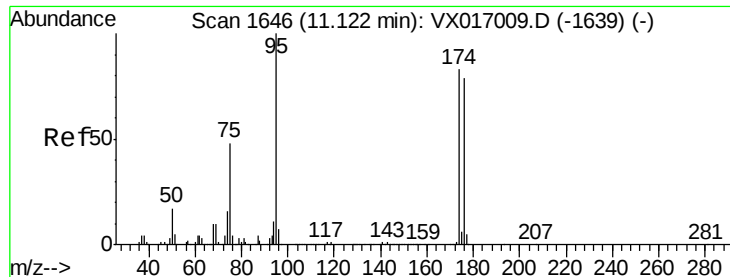
100 66.8 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 57.308 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

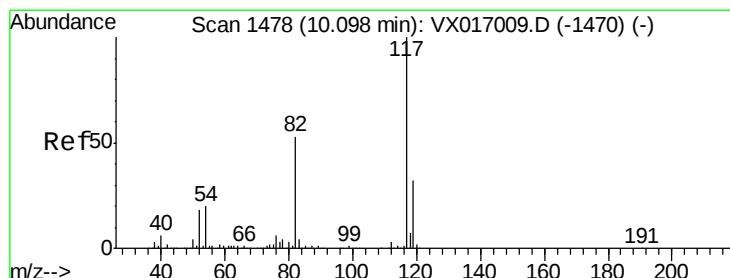
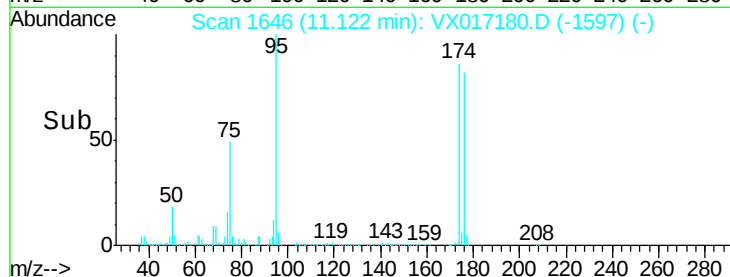
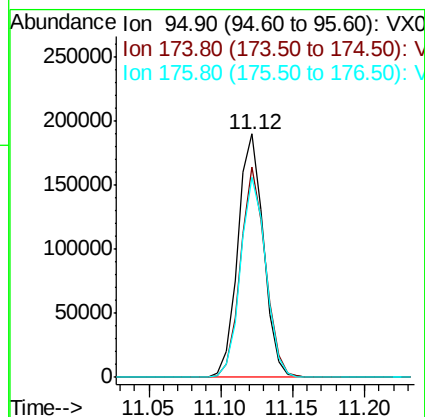
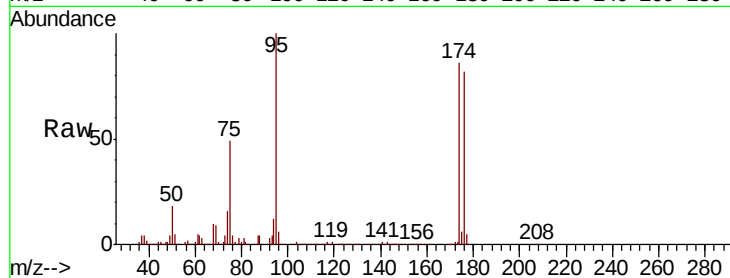
Tot Ion: 95 Resp: 236608

Ion Ratio Lower Upper

95 100

174 83.6 0.0 164.0

176 81.1 0.0 157.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

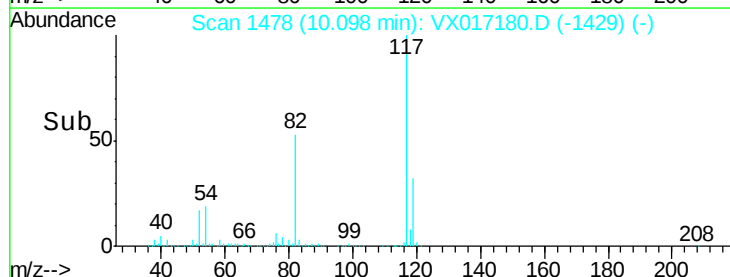
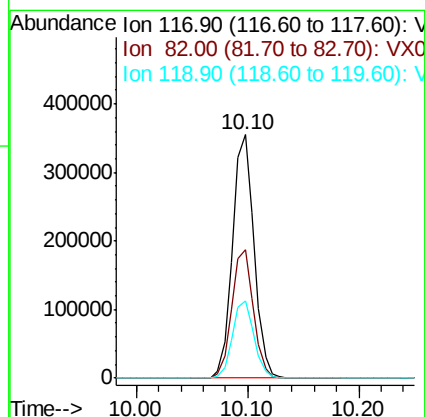
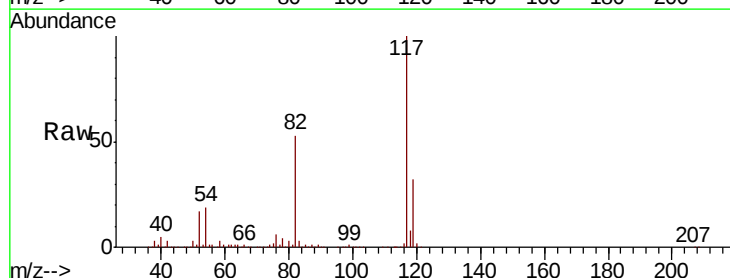
Tgt Ion: 117 Resp: 473522

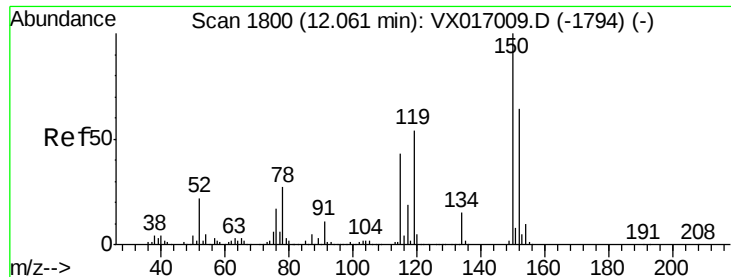
Ion Ratio Lower Upper

117 100

82 52.7 42.6 63.8

119 31.9 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: VX017180.D

Acq: 06 Jul 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

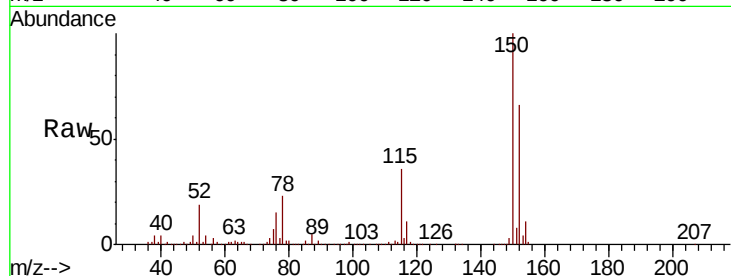
Tot Ion:152 Resp: 260093

Ion Ratio Lower Upper

152 100

115 56.4 40.9 122.7

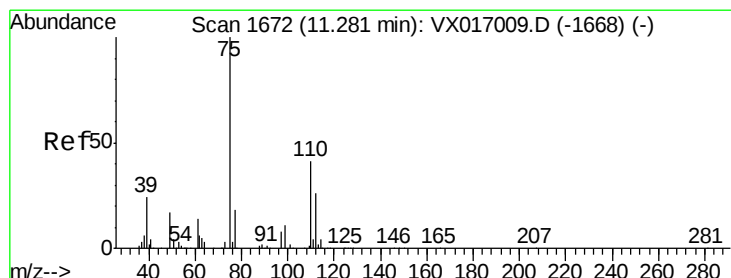
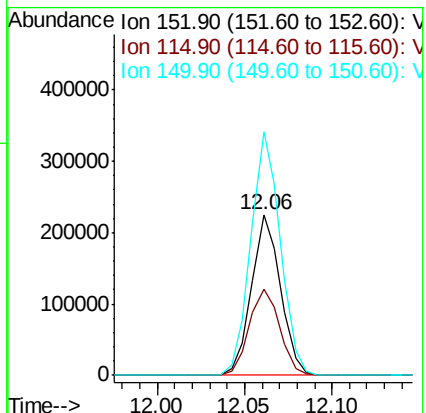
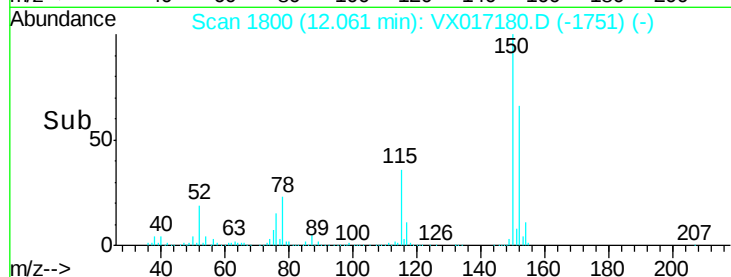
150 153.9 0.0 351.6



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: 22.853 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017180.D

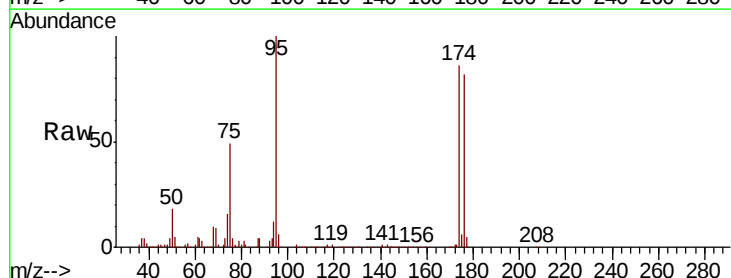
Acq: 06 Jul 2020 19:50

Tgt Ion: 75 Resp: 116886

Ion Ratio Lower Upper

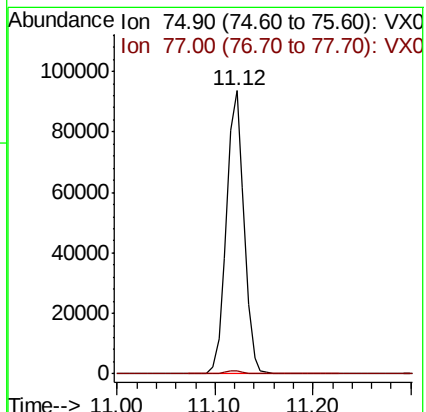
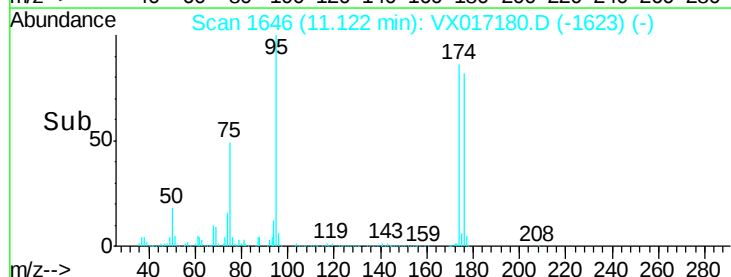
75 100

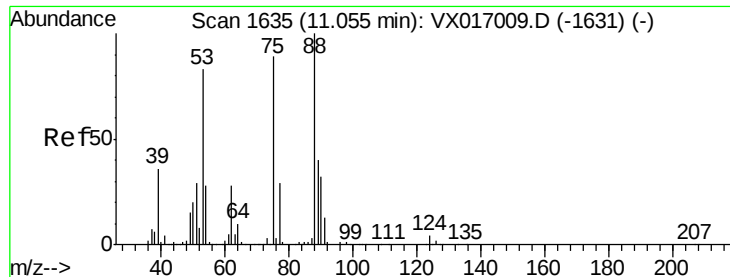
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.182 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

Instrument :

MSVOA_X

ClientSampleId :

47BR-20200629

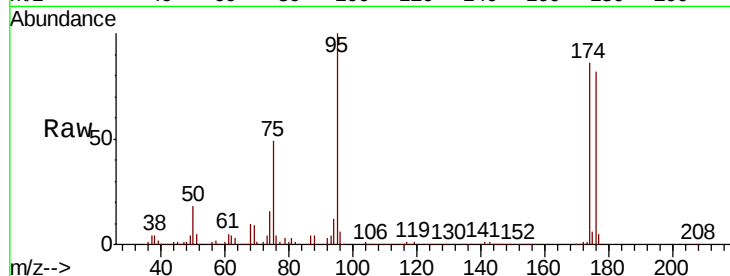
Tot Ion: 75 Resp: 116886

Ion Ratio Lower Upper

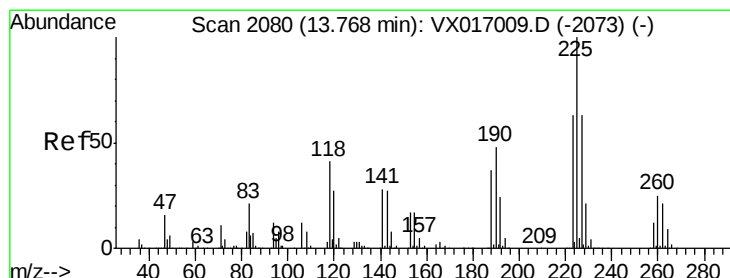
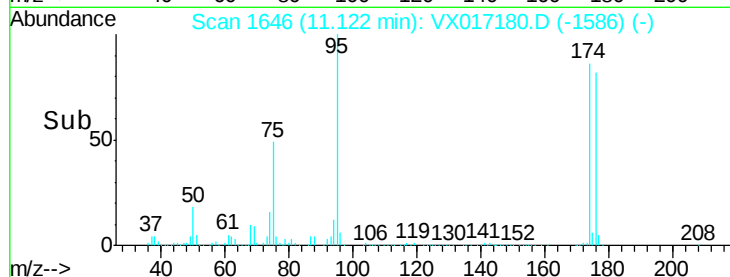
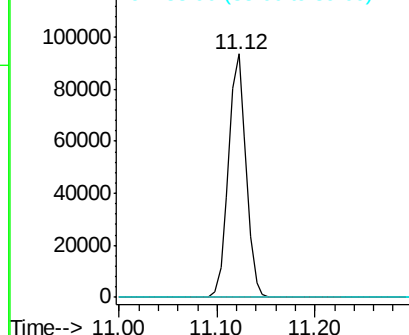
75 100

53 0.2 72.4 108.6#

89 0.1 37.0 55.4#



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



#94

Hexachlorobutadiene

Concen: 0.874 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017180.D

Acq: 06 Jul 2020 19:50

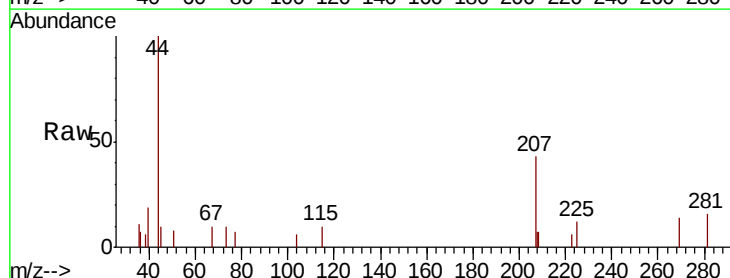
Tgt Ion: 225 Resp: 63

Ion Ratio Lower Upper

225 100

223 31.7 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

