

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070620\
 Data File : VX017169.D
 Acq On : 06 Jul 2020 15:40
 Operator : JC/SP
 Sample : L3159-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 50BR-20200629

Quant Time: Jul 07 06:50:32 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	273545	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	441326	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	459237	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	270020	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	167946	49.80	ug/l	0.00
Spiked Amount			Recovery	=	99.60%	
35) Dibromofluoromethane	5.47	113	143168	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
50) Toluene-d8	8.70	98	533514	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
62) 4-Bromofluorobenzene	11.12	95	237726	58.91	ug/l	0.00
Spiked Amount			Recovery	=	117.82%	

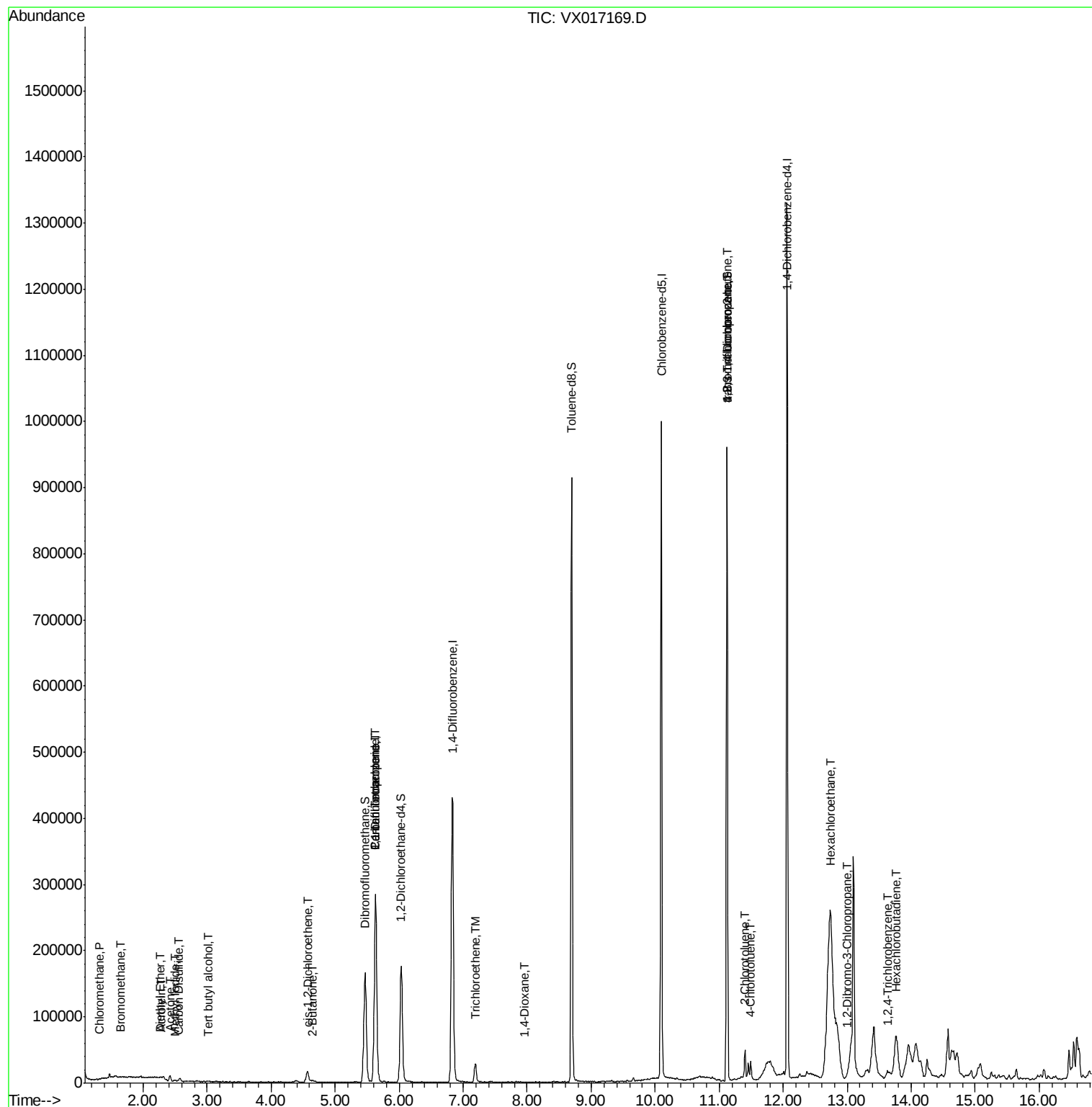
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	684	0.214	ug/l #	86
5) Bromomethane	1.64	94	766	0.488	ug/l #	72
8) Diethyl Ether	2.26	74	215	0.510	ug/l	60
10) Methyl Iodide	2.50	142	1092	0.321	ug/l #	85
11) Tert butyl alcohol	3.01	59	1066	1.657	ug/l #	61
13) Acrolein	2.28	56	389	1.012	ug/l #	50
16) Acetone	2.42	43	8707	6.902	ug/l	95
17) Carbon Disulfide	2.56	76	2247	0.320	ug/l #	93
20) Methylene Chloride	2.85	84	490	Below Cal	#	78
25) 2-Butanone	4.65	43	2320	1.104	ug/l #	81
27) cis-1,2-Dichloroethene	4.56	96	10071	2.959	ug/l	93
36) 1,1-Dichloropropene	5.63	75	19457	4.665	ug/l #	45
38) Carbon Tetrachloride	5.63	117	26088	5.679	ug/l #	16
44) Trichloroethene	7.20	130	11454	3.097	ug/l	86
49) 1,4-Dioxane	7.96	88	23	0.304	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	121109	22.809	ug/l #	37
79) 2-Chlorotoluene	11.40	91	18834	1.556	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	121109	59.066	ug/l #	13
82) 4-Chlorotoluene	11.49	91	10606	0.733	ug/l	96
88) 1,4-Dichlorobenzene	12.09	146	1274	Below Cal	#	25
90) Hexachloroethane	12.73	117	10699	3.443	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	13.00	75	537	0.405	ug/l #	8
93) 1,2,4-Trichlorobenzene	13.63	180	1136	0.202	ug/l	88
94) Hexachlorobutadiene	13.77	225	915	1.265	ug/l	74

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

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50BR-20200629

Quant Time: Jul 07 06:50:32 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: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

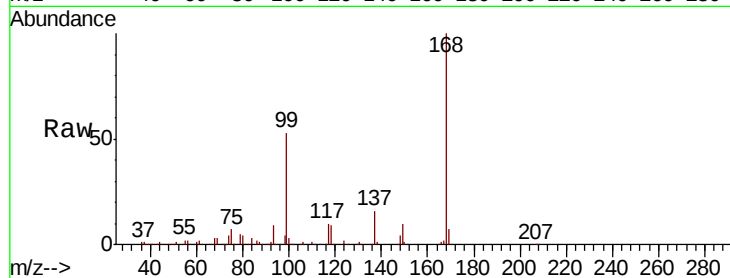
50BR-20200629

Tot Ion:168 Resp: 273545

Ion Ratio Lower Upper

168 100

99 53.2 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

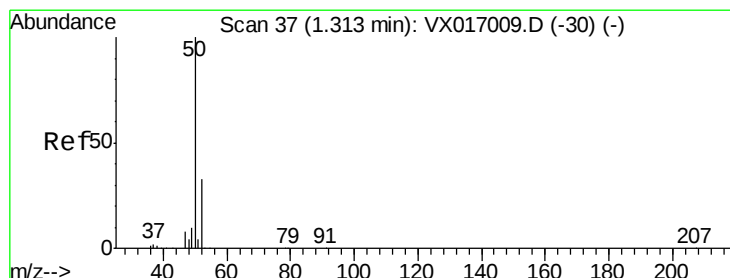
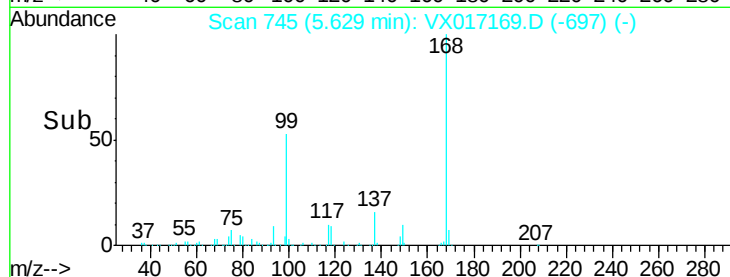
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.214 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017169.D

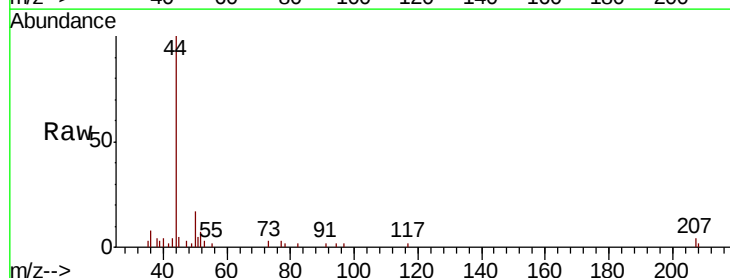
Acq: 06 Jul 2020 15:40

Tgt Ion: 50 Resp: 684

Ion Ratio Lower Upper

50 100

52 40.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

600

500

400

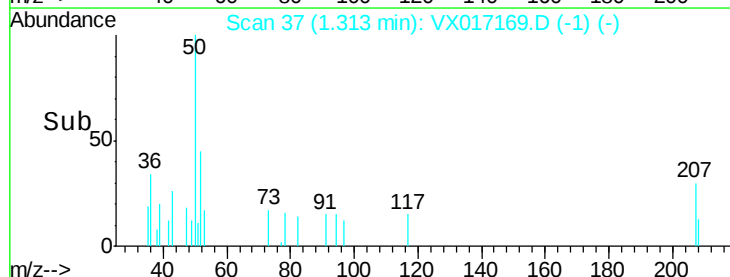
300

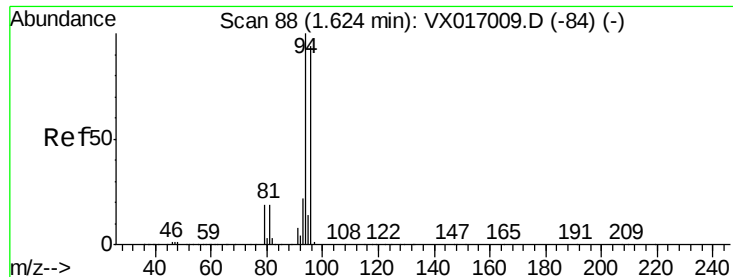
200

100

0

Time-->





#5

Bromomethane

Concen: 0.488 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

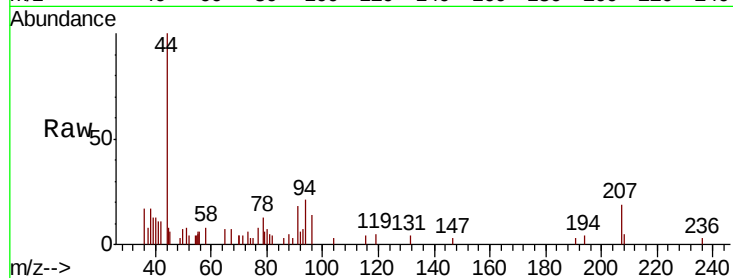
50BR-20200629

Tot Ion: 94 Resp: 766

Ion Ratio Lower Upper

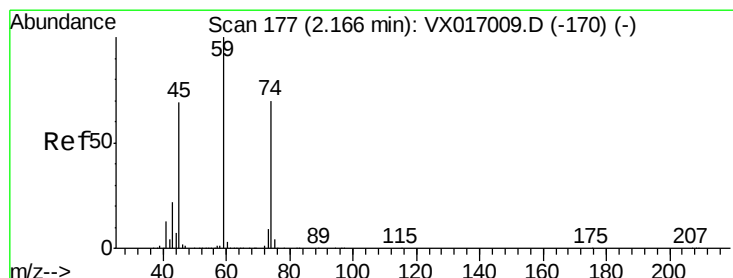
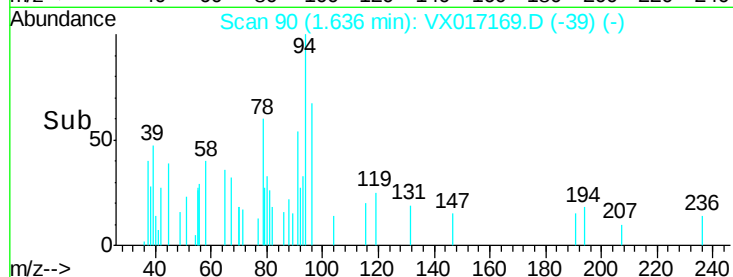
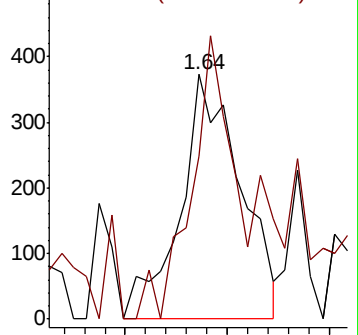
94 100

96 66.8 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: 0.510 ug/l

RT: 2.26 min Scan# 193

Delta R.T. 0.10 min

Lab File: VX017169.D

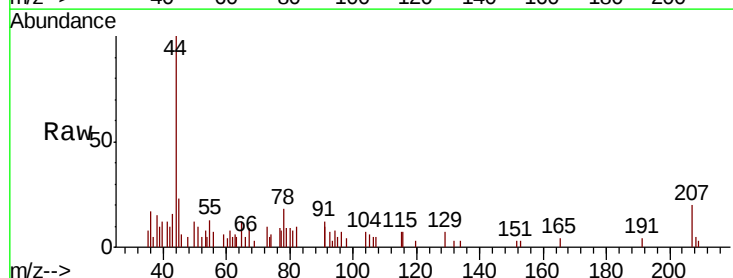
Acq: 06 Jul 2020 15:40

Tgt Ion: 74 Resp: 215

Ion Ratio Lower Upper

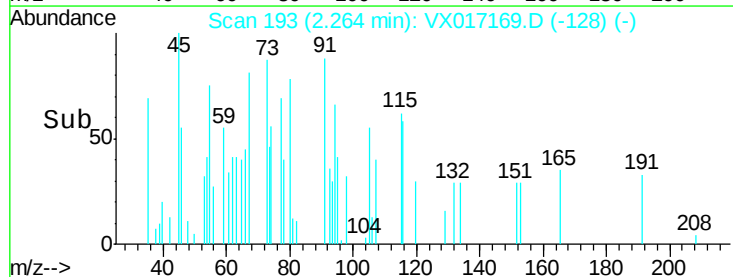
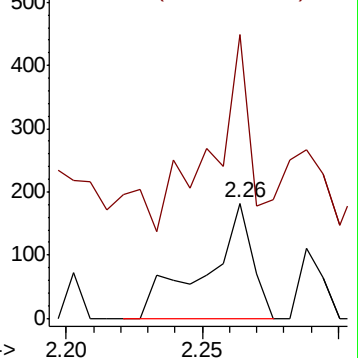
74 100

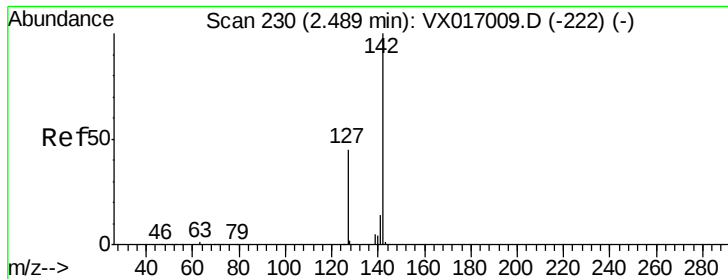
45 139.5 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

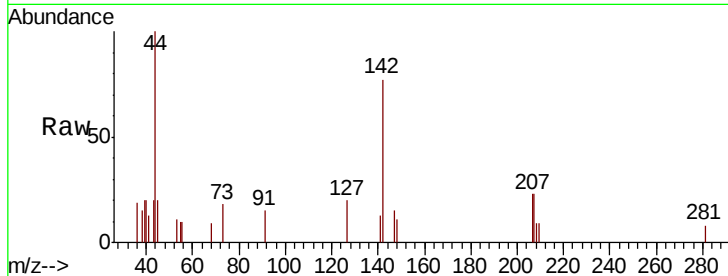




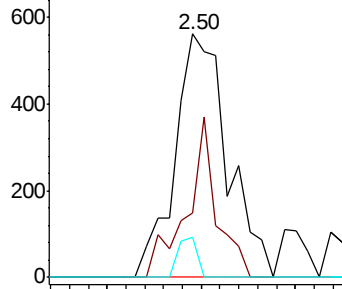
#10
Methyl Iodide
Concen: 0.321 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX017169.D
Acq: 06 Jul 2020 15:40

Instrument :
MSVOA_X
ClientSampleId :
50BR-20200629

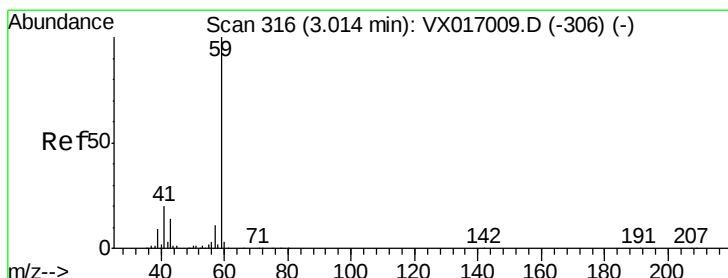
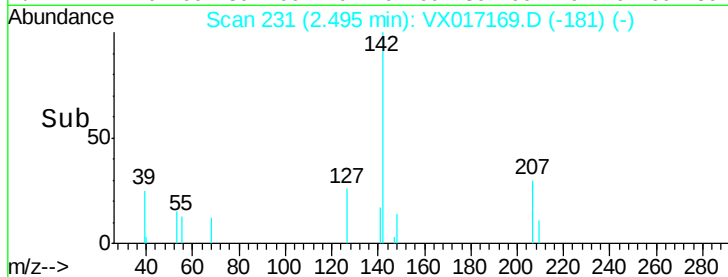
Tot Ion:142 Resp: 1092
Ion Ratio Lower Upper
142 100
127 37.0 36.6 54.8
141 5.9 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

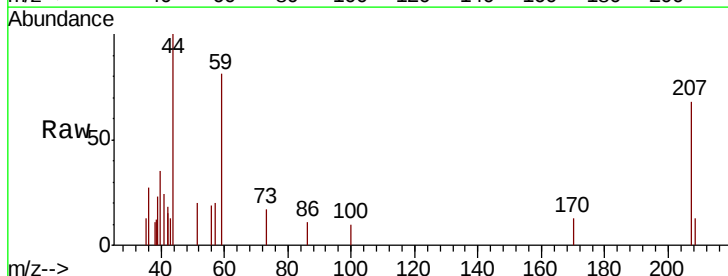


Time-->

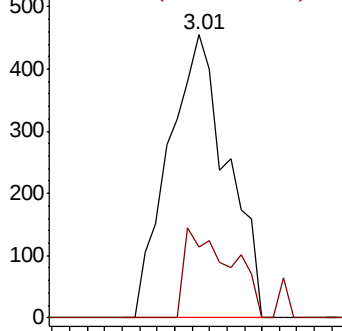


#11
Tert butyl alcohol
Concen: 1.657 ug/l
RT: 3.01 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX017169.D
Acq: 06 Jul 2020 15:40

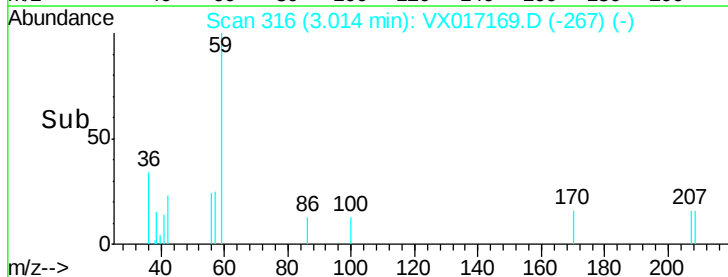
Tgt Ion: 59 Resp: 1066
Ion Ratio Lower Upper
59 100
57 24.9 8.2 12.2#

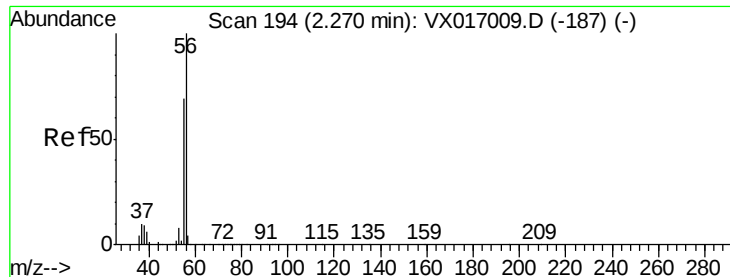


Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



Time-->





#13

Acrolein

Concen: 1.012 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

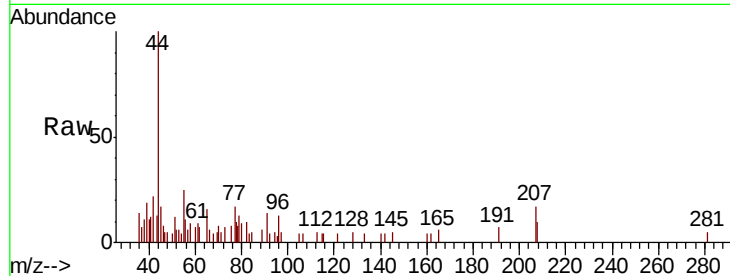
50BR-20200629

Tot Ion: 56 Resp: 389

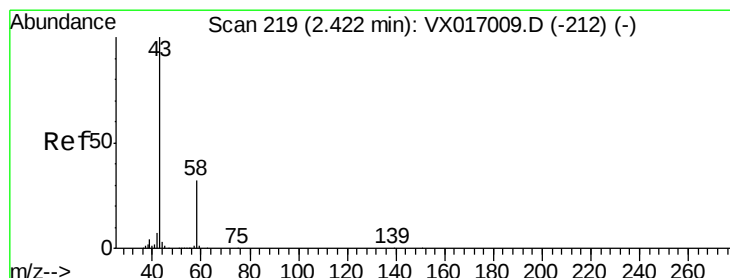
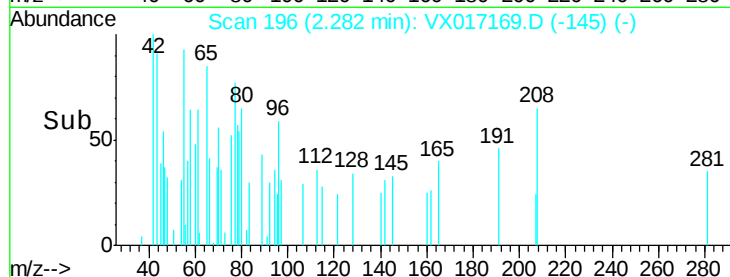
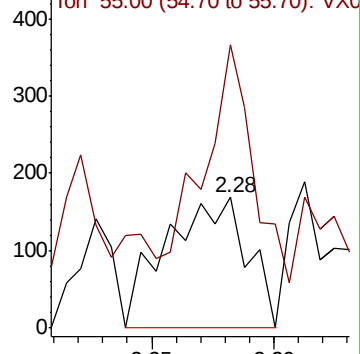
Ion Ratio Lower Upper

56 100

55 110.5 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0



#16

Acetone

Concen: 6.902 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017169.D

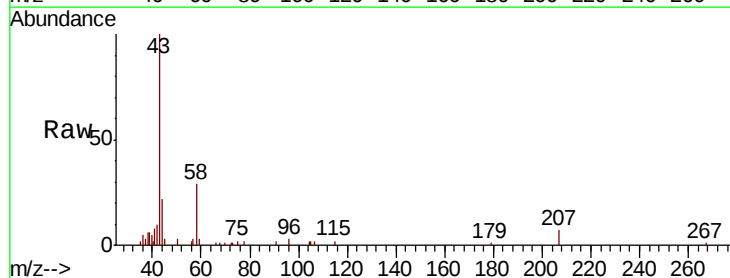
Acq: 06 Jul 2020 15:40

Tgt Ion: 43 Resp: 8707

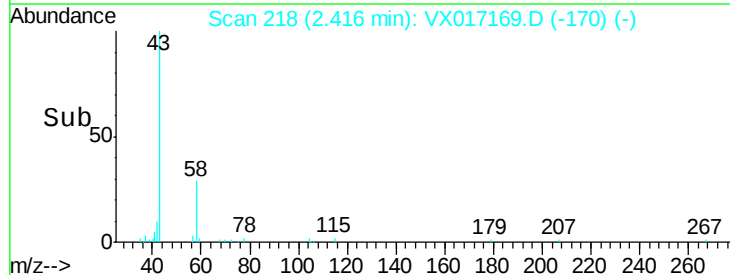
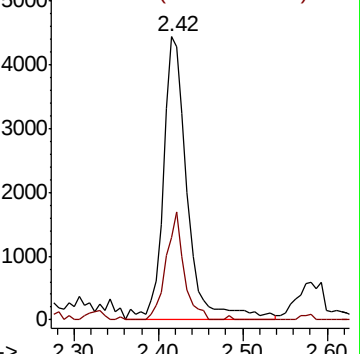
Ion Ratio Lower Upper

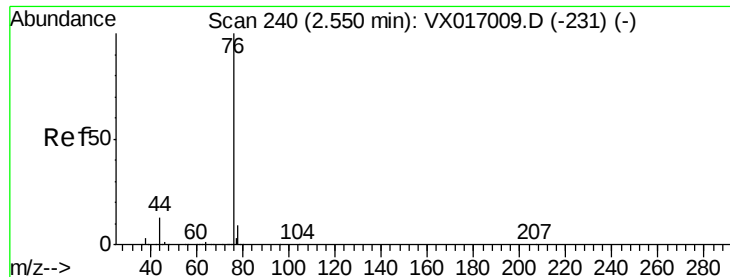
43 100

58 29.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0





#17

Carbon Disulfide

Concen: 0.320 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

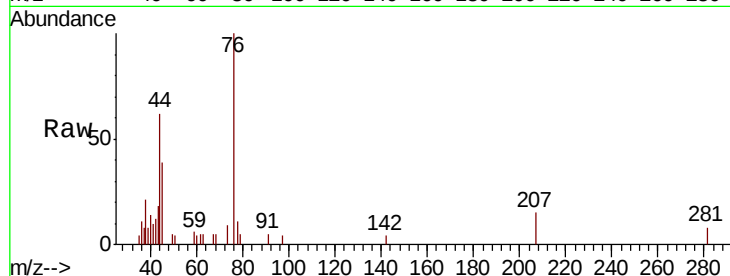
50BR-20200629

Tot Ion: 76 Resp: 2247

Ion Ratio Lower Upper

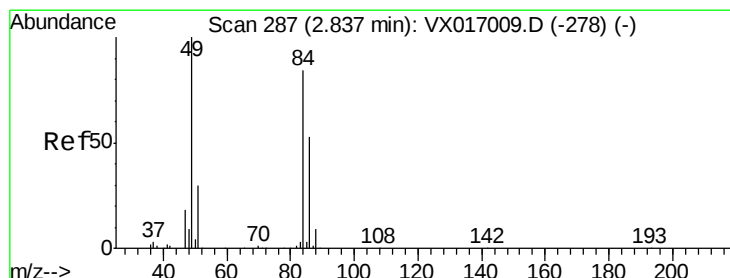
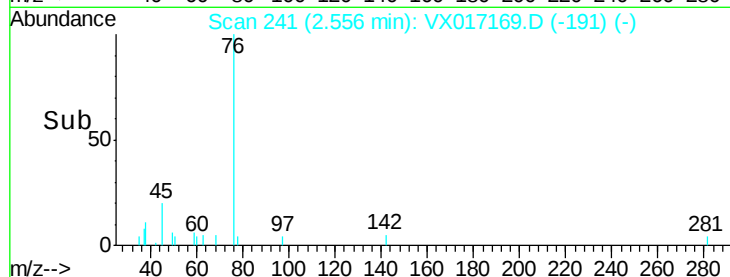
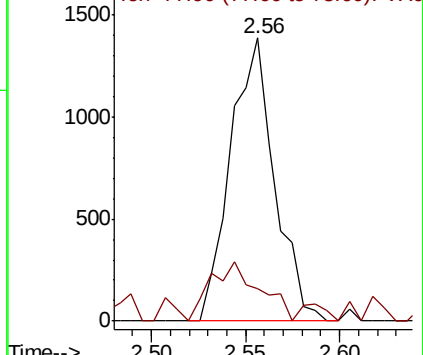
76 100

78 11.5 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: 2.85 min Scan# 289

Delta R.T. 0.01 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Tgt Ion: 84 Resp: 490

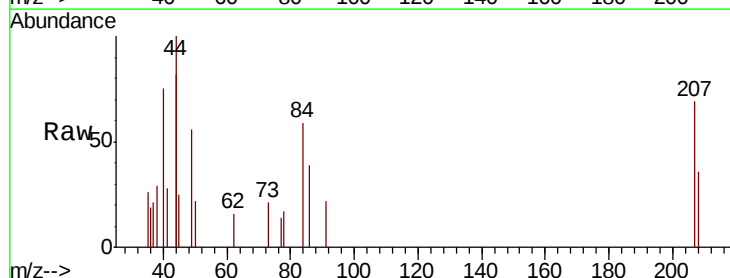
Ion Ratio Lower Upper

84 100

49 96.3 94.7 142.1

51 0.0 28.6 42.8#

86 66.2 50.5 75.7

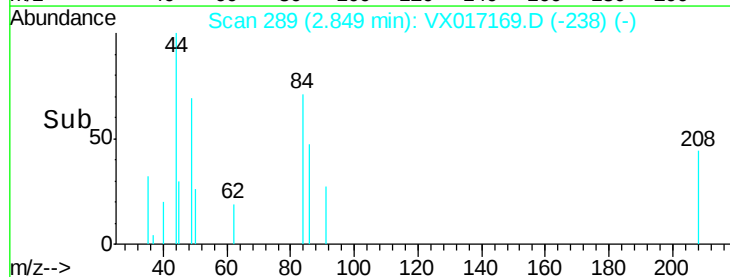
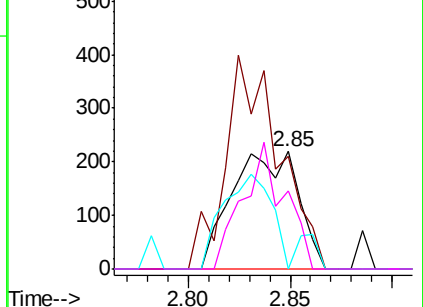


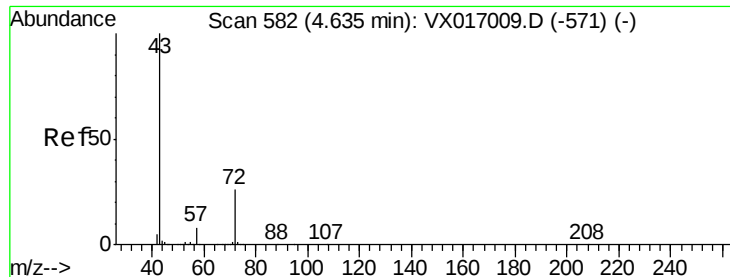
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 1.104 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

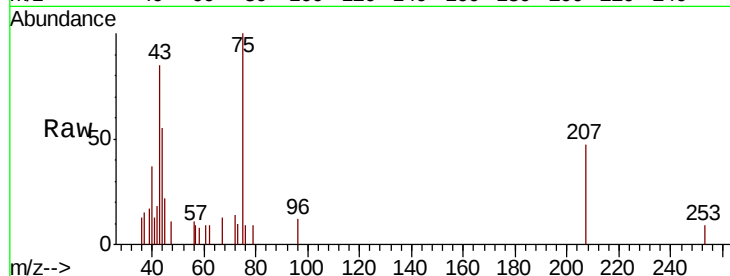
50BR-20200629

Tot Ion: 43 Resp: 2320

Ion Ratio Lower Upper

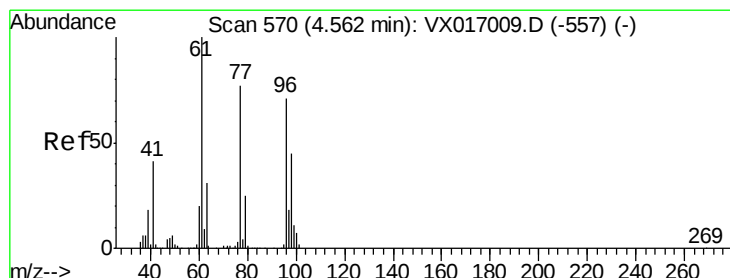
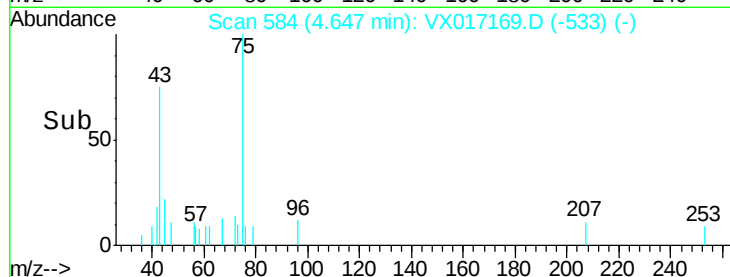
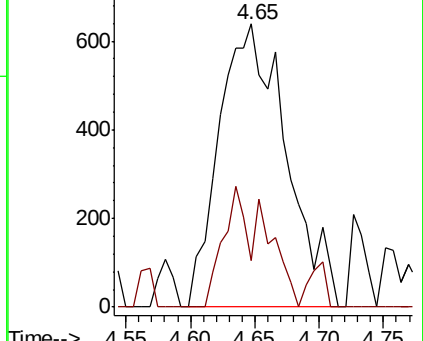
43 100

72 16.3 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: 2.959 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.00 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

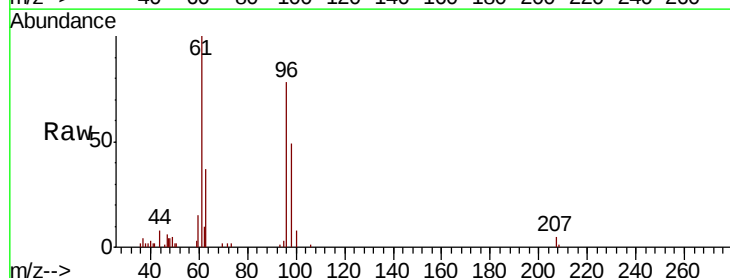
Tgt Ion: 96 Resp: 10071

Ion Ratio Lower Upper

96 100

61 129.8 0.0 282.8

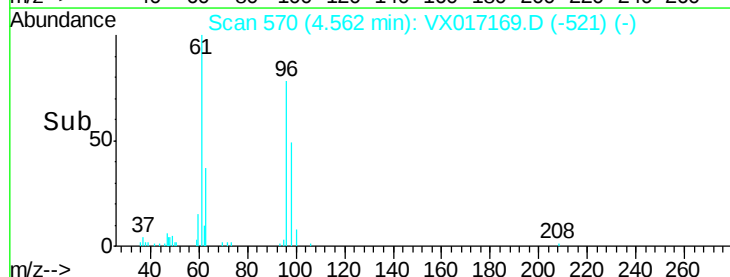
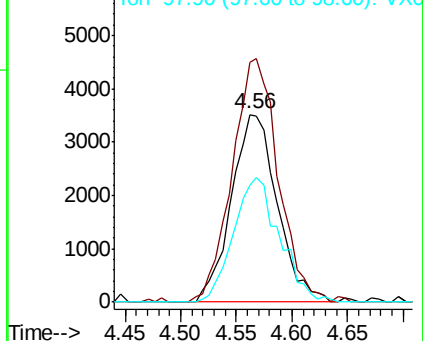
98 66.1 0.0 127.6

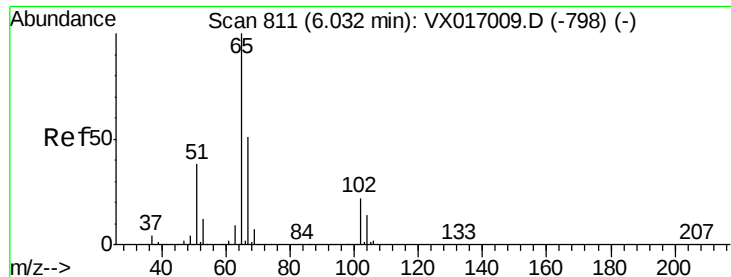


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.802 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

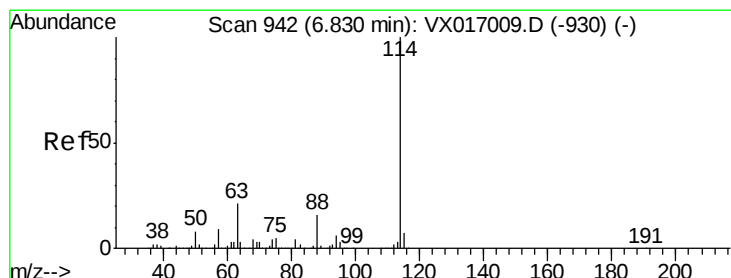
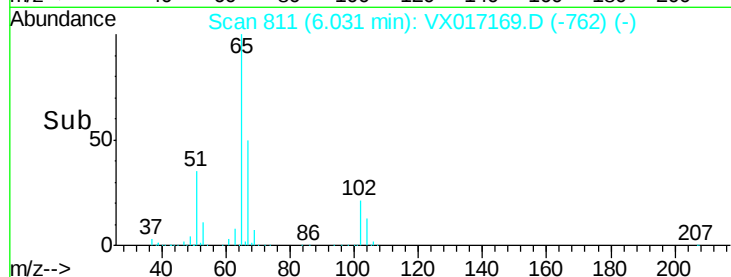
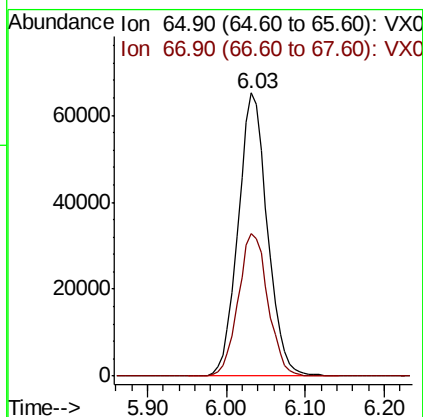
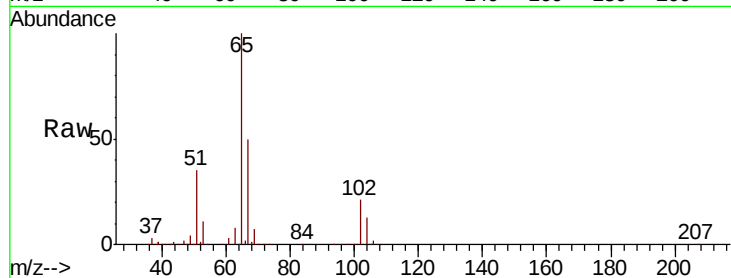
50BR-20200629

Tot Ion: 65 Resp: 167946

Ion Ratio Lower Upper

65 100

67 51.3 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

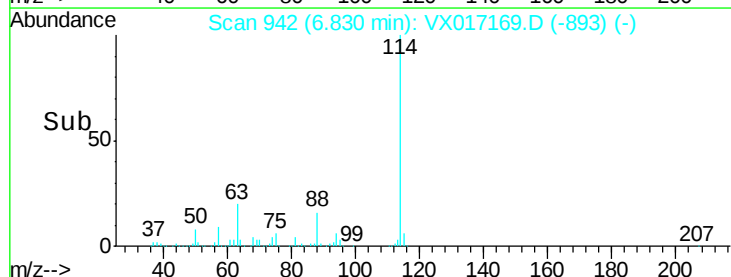
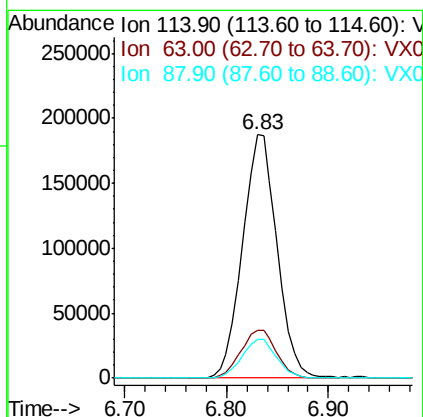
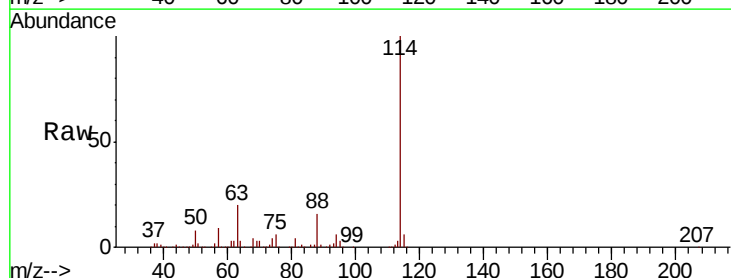
Tgt Ion: 114 Resp: 441326

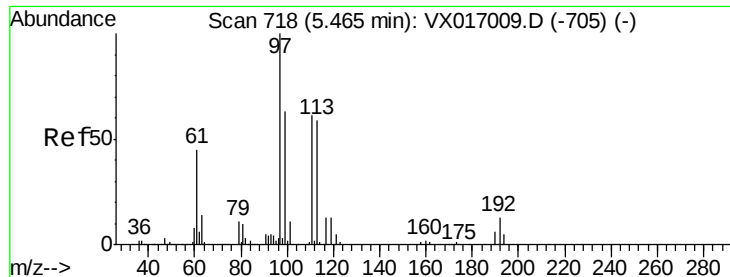
Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

88 15.8 0.0 32.4

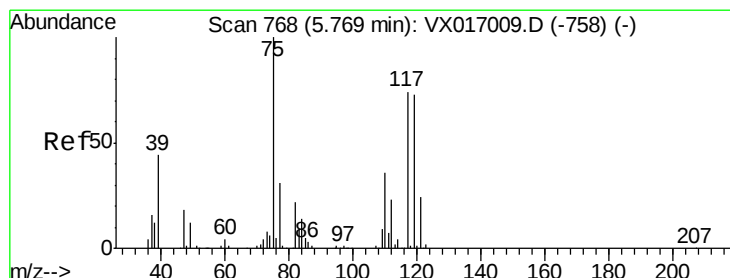
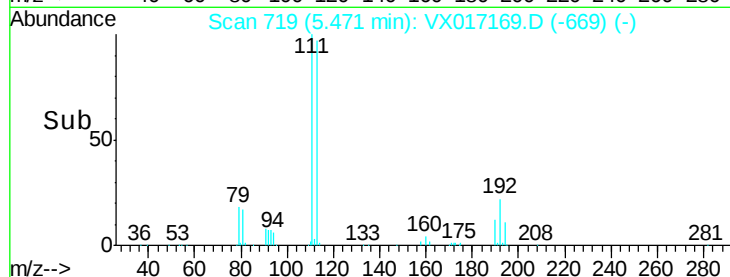
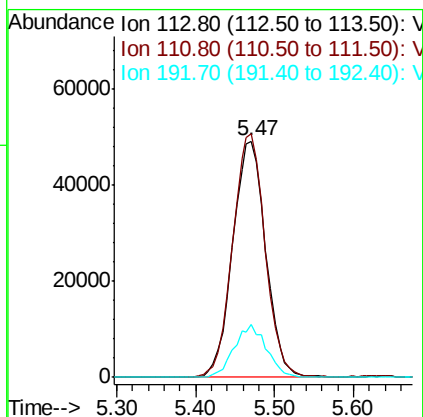
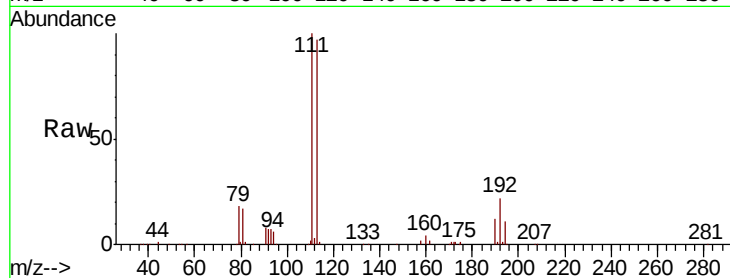




#35
 Dibromofluoromethane
 Concen: 51.284 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX017169.D
 Acq: 06 Jul 2020 15:40

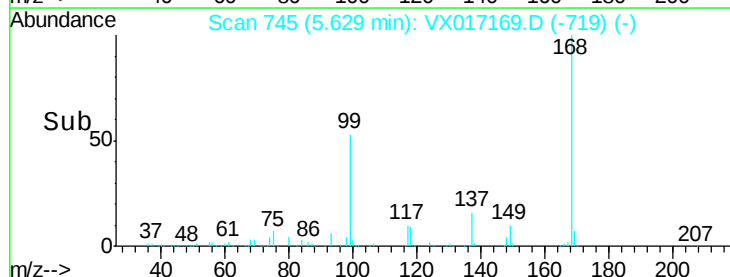
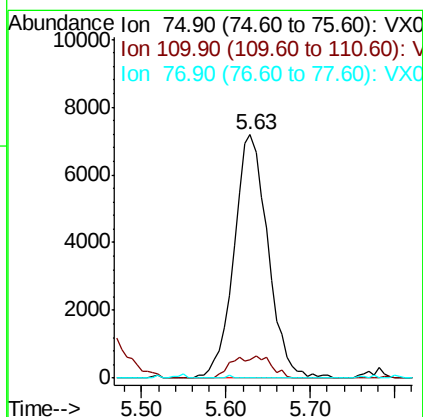
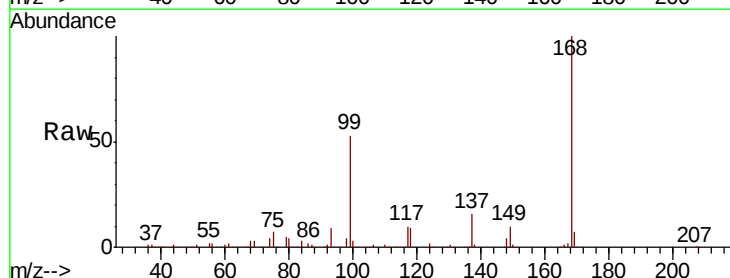
Instrument :
 MSVOA_X
 ClientSampleId :
 50BR-20200629

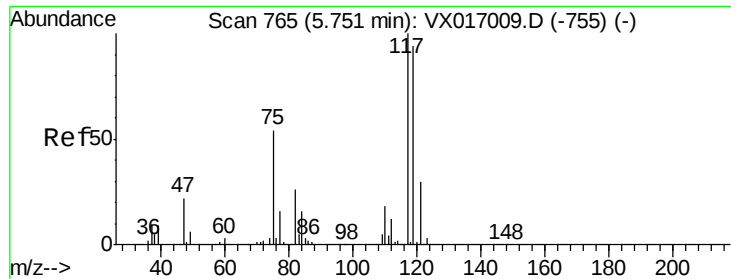
Tot Ion:113 Resp: 143168
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.9 122.9
 192 21.9 16.7 25.1



#36
 1,1-Dichloropropene
 Concen: 4.665 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017169.D
 Acq: 06 Jul 2020 15:40

Tgt Ion: 75 Resp: 19457
 Ion Ratio Lower Upper
 75 100
 110 4.5 18.1 54.1#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.679 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

50BR-20200629

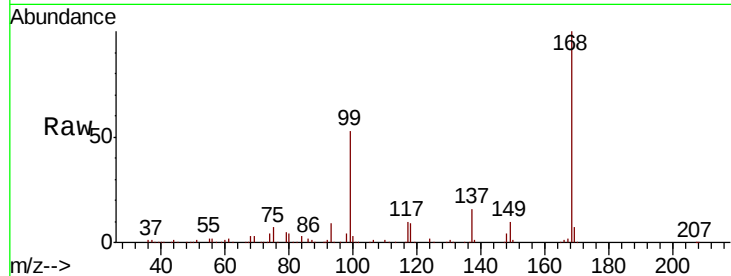
Tot Ion:117 Resp: 26088

Ion Ratio Lower Upper

117 100

119 4.1 75.4 113.0#

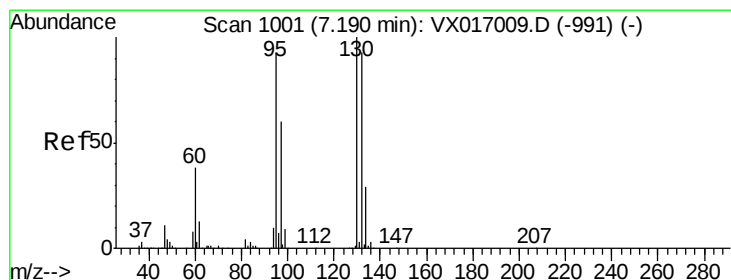
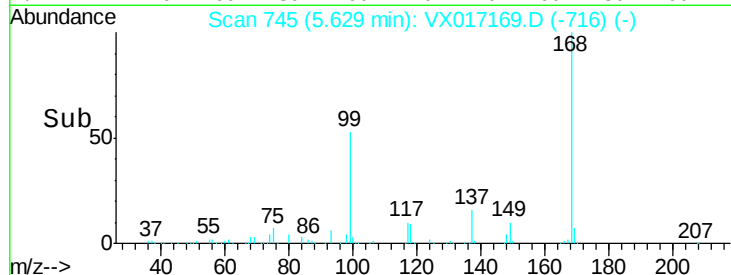
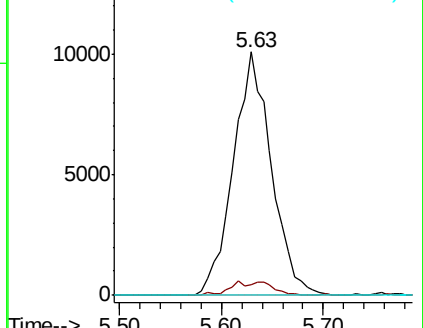
121 0.0 23.8 35.6#



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: 3.097 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017169.D

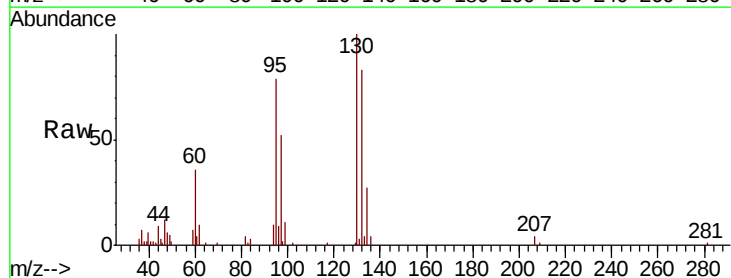
Acq: 06 Jul 2020 15:40

Tgt Ion:130 Resp: 11454

Ion Ratio Lower Upper

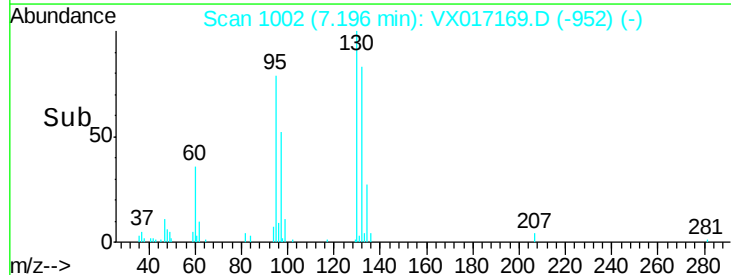
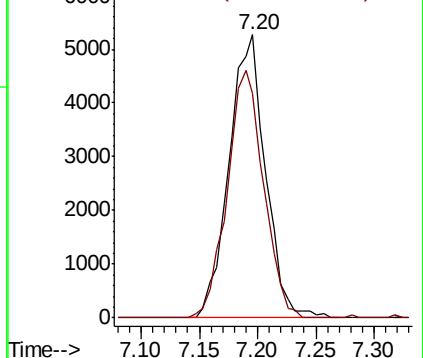
130 100

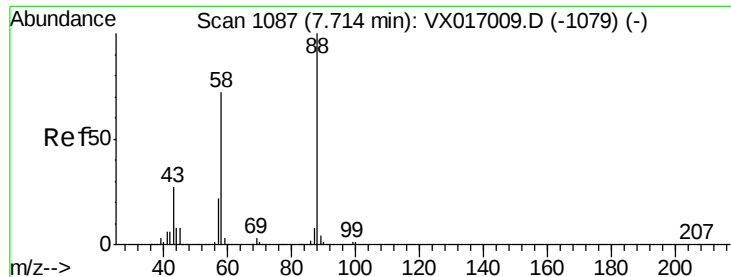
95 79.2 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

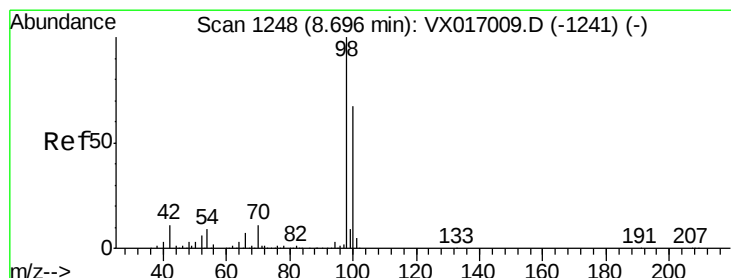
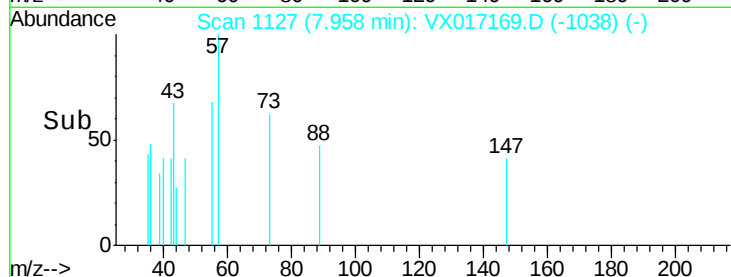
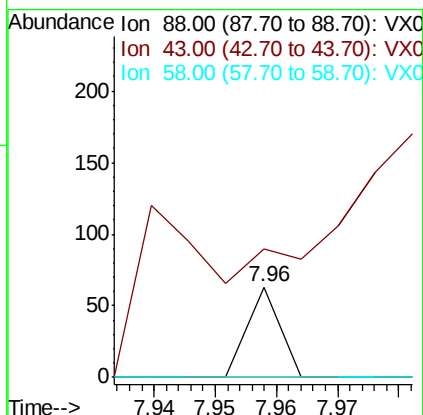
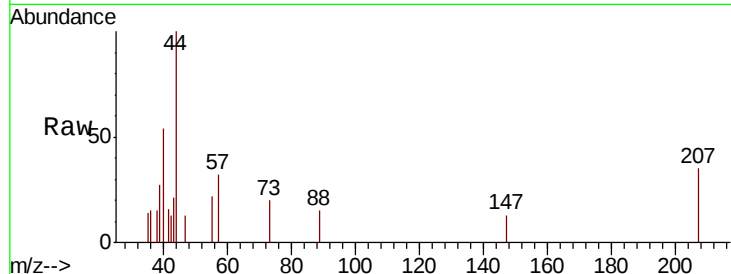




#49
1,4-Dioxane
Concen: 0.304 ug/l
RT: 7.96 min Scan# 1127
Delta R.T. 0.24 min
Lab File: VX017169.D
Acq: 06 Jul 2020 15:40

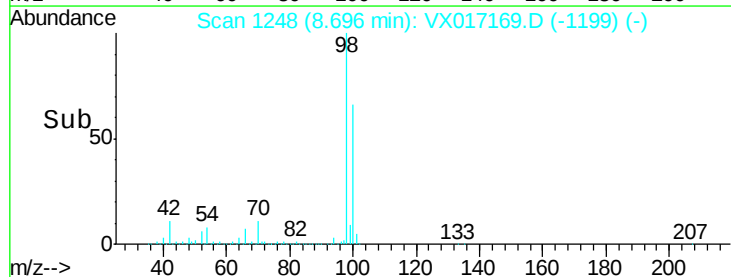
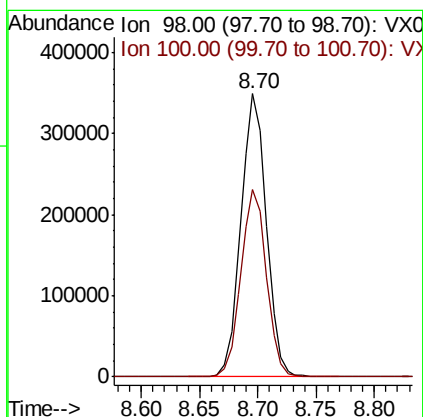
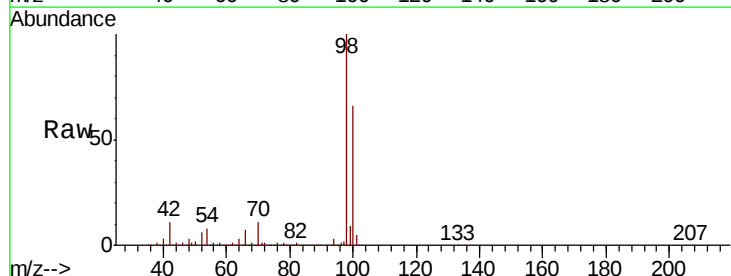
Instrument :
MSVOA_X
ClientSampleId :
50BR-20200629

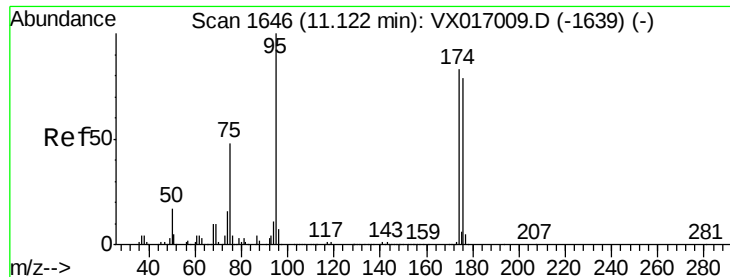
Tot Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 447.8 25.8 38.8#
58 0.0 54.8 82.2#



#50
Toluene-d8
Concen: 51.681 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017169.D
Acq: 06 Jul 2020 15:40

Tgt Ion: 98 Resp: 533514
Ion Ratio Lower Upper
98 100
100 66.5 53.8 80.6





#62

4-Bromofluorobenzene

Concen: 58.910 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

50BR-20200629

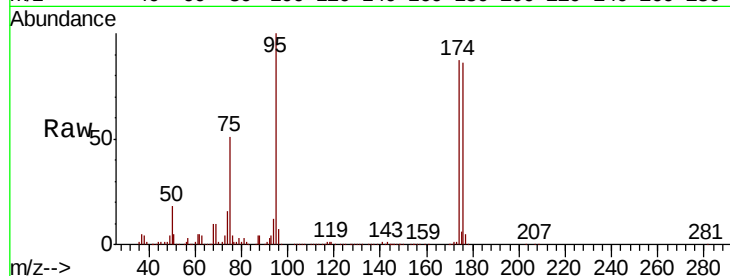
Tot Ion: 95 Resp: 237726

Ion Ratio Lower Upper

95 100

174 85.1 0.0 164.0

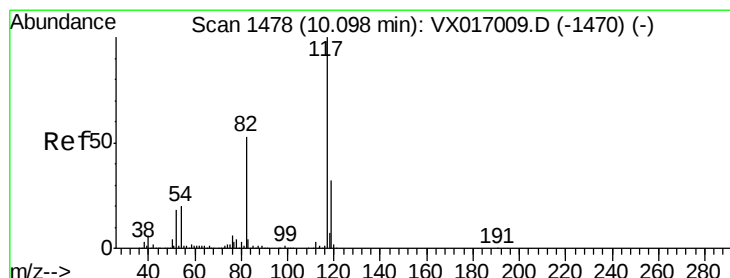
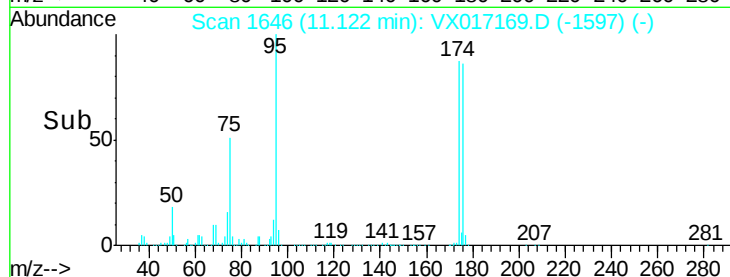
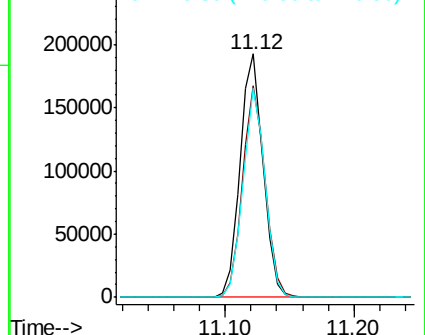
176 82.4 0.0 157.6



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: VX017169.D

Acq: 06 Jul 2020 15:40

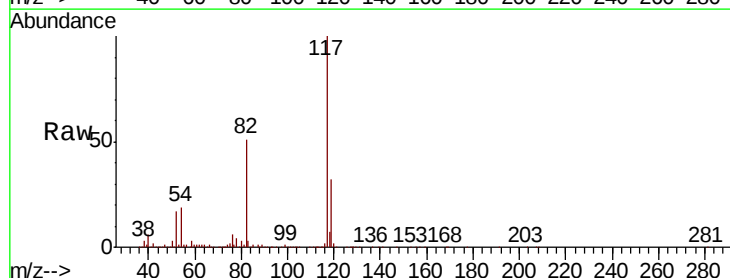
Tgt Ion: 117 Resp: 459237

Ion Ratio Lower Upper

117 100

82 51.1 42.6 63.8

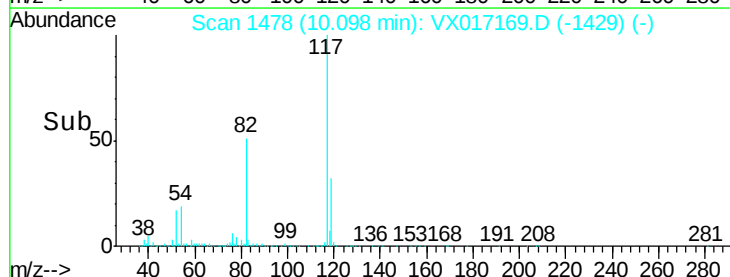
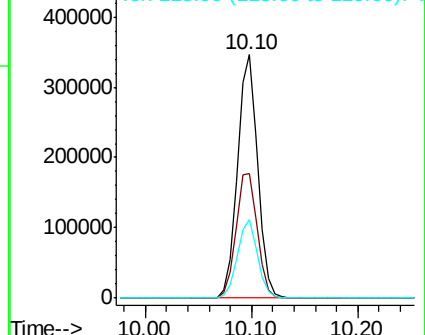
119 32.5 25.4 38.2

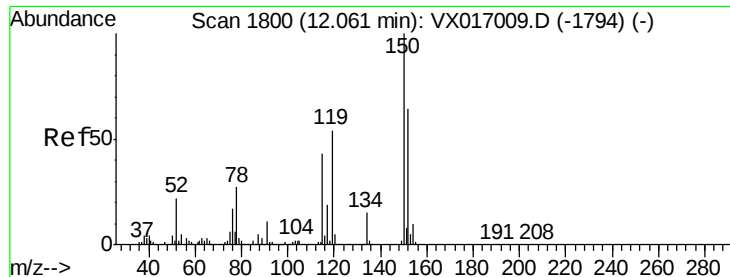


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

50BR-20200629

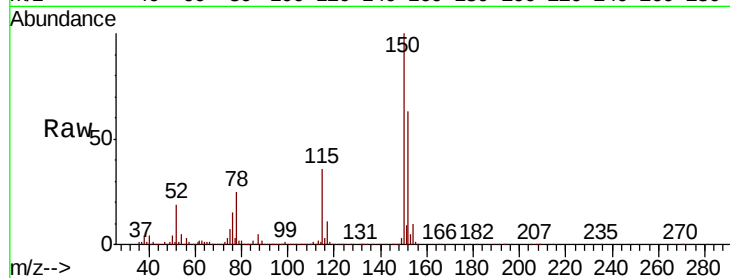
Tot Ion:152 Resp: 270020

Ion Ratio Lower Upper

152 100

115 58.4 40.9 122.7

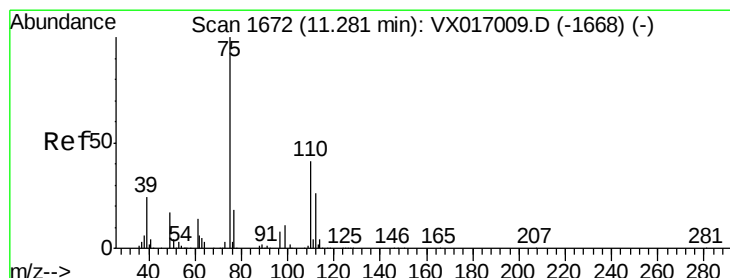
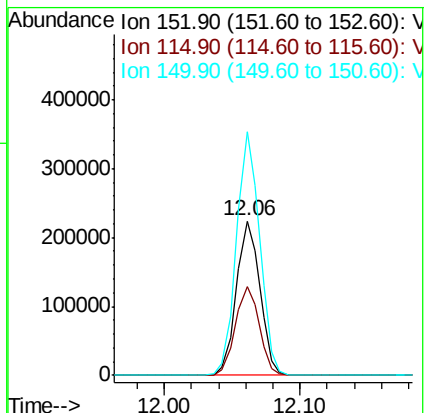
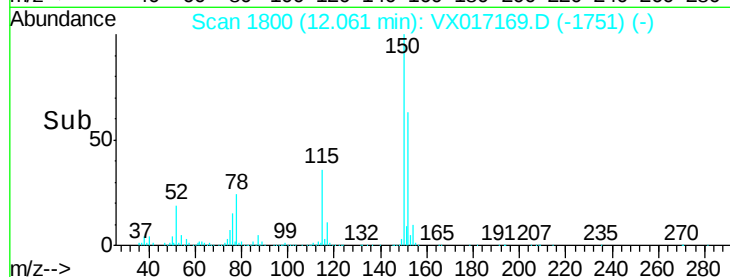
150 155.7 0.0 351.6



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: 22.809 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017169.D

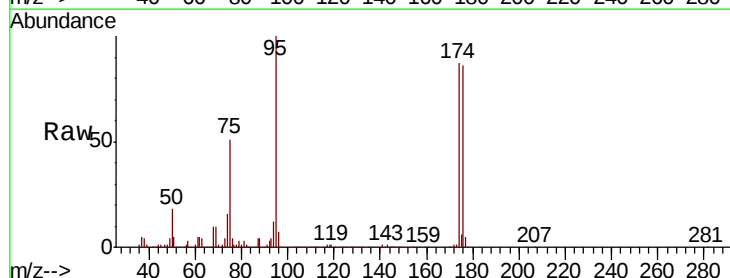
Acq: 06 Jul 2020 15:40

Tgt Ion: 75 Resp: 121109

Ion Ratio Lower Upper

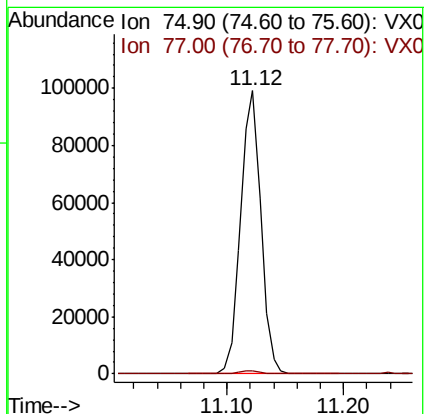
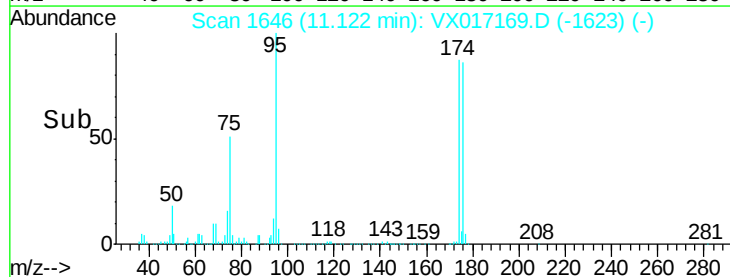
75 100

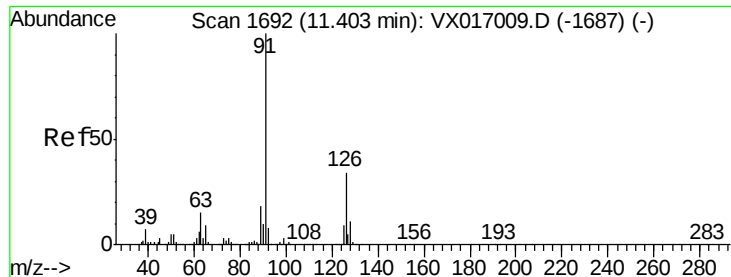
77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

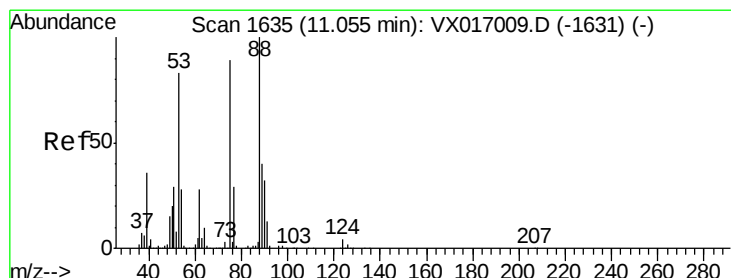
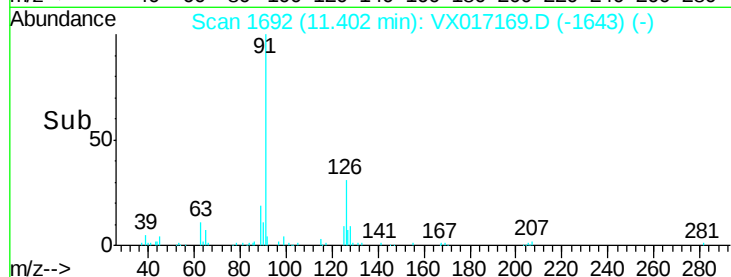
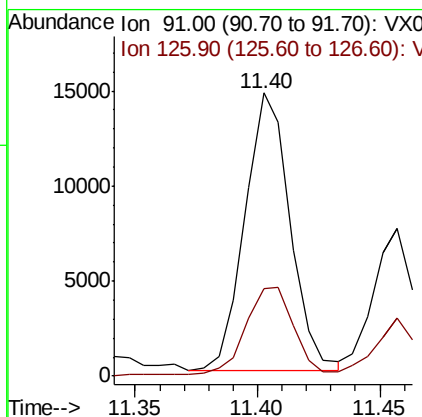
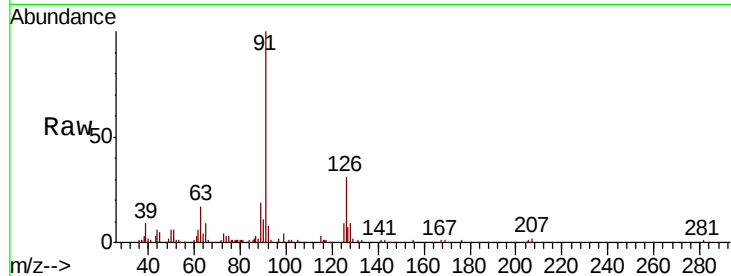




#79
2-Chlorotoluene
Concen: 1.556 ug/l
RT: 11.40 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VX017169.D
Acq: 06 Jul 2020 15:40

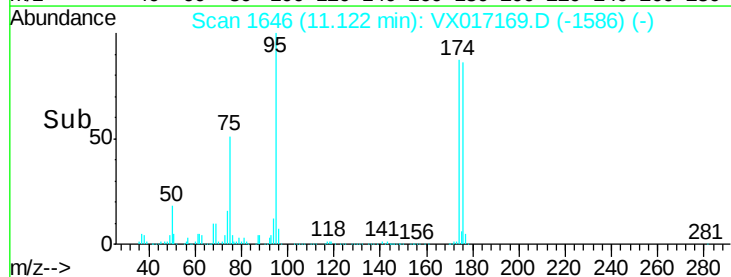
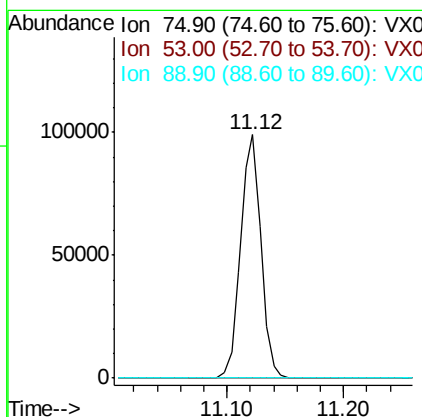
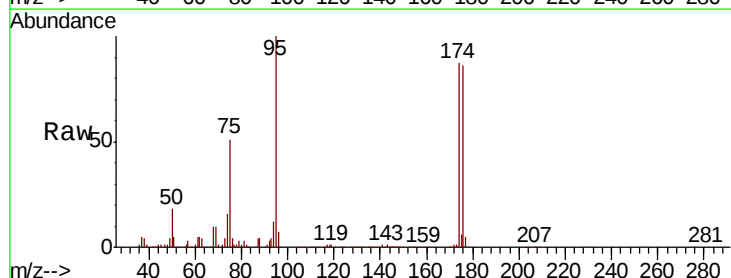
Instrument :
MSVOA_X
ClientSampleId :
50BR-20200629

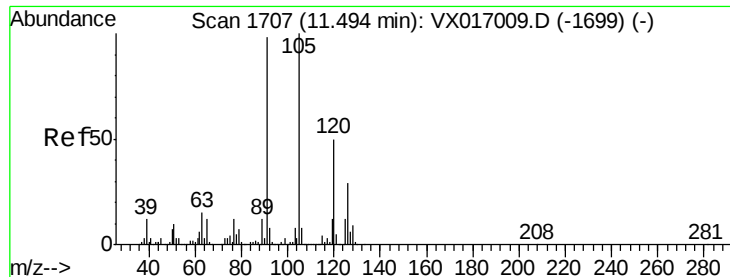
Tot Ion: 91 Resp: 18834
Ion Ratio Lower Upper
91 100
126 33.6 17.4 52.3



#81
trans-1,4-Dichloro-2-butene
Concen: 59.066 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX017169.D
Acq: 06 Jul 2020 15:40

Tgt Ion: 75 Resp: 121109
Ion Ratio Lower Upper
75 100
53 0.2 72.4 108.6#
89 0.0 37.0 55.4#

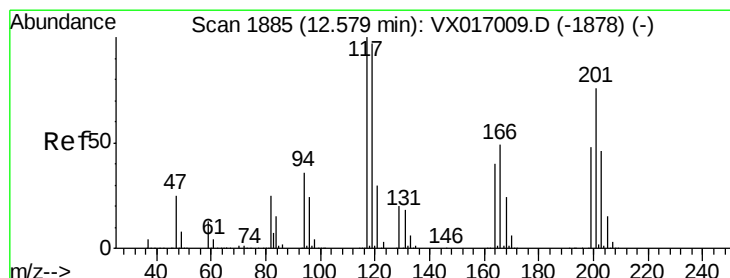
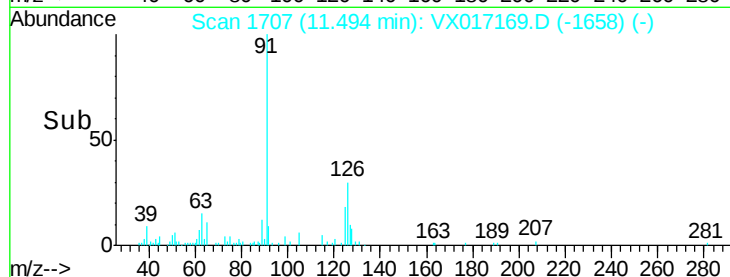
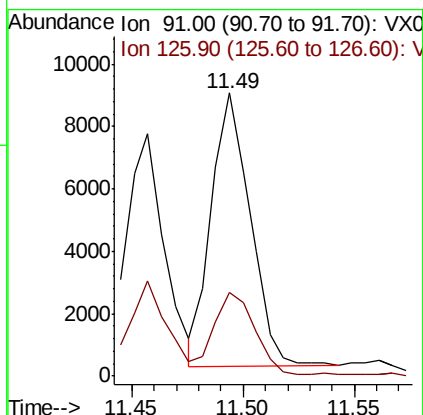
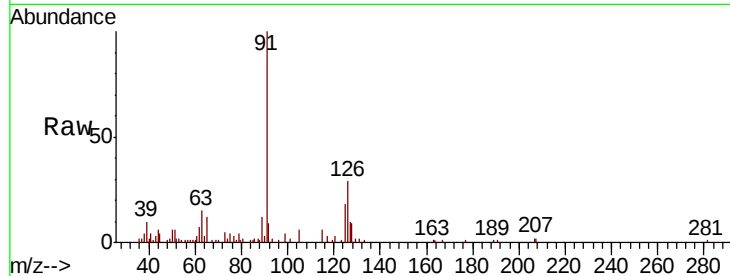




#82
4-Chlorotoluene
Concen: 0.733 ug/l
RT: 11.49 min Scan# 1707
Delta R.T. -0.00 min
Lab File: VX017169.D
Acq: 06 Jul 2020 15:40

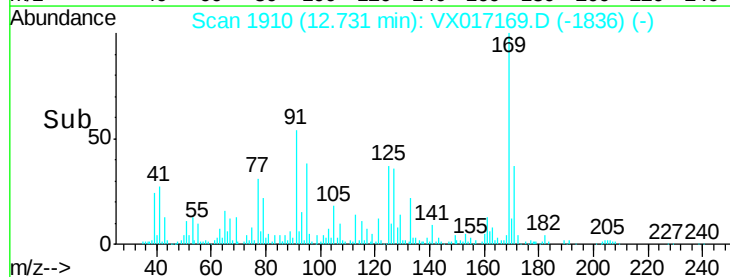
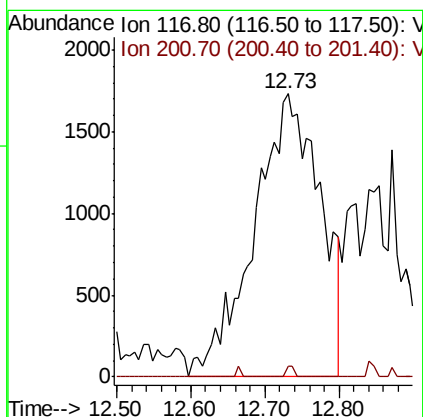
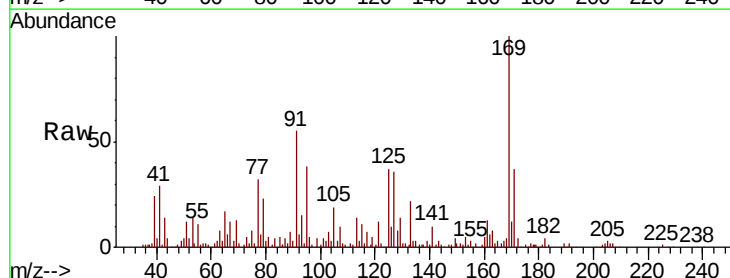
Instrument :
MSVOA_X
ClientSampleId :
50BR-20200629

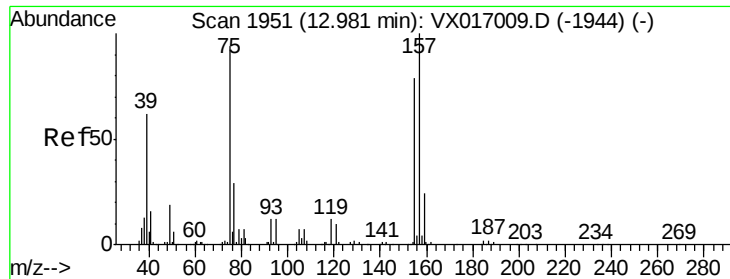
Tot Ion: 91 Resp: 10606
Ion Ratio Lower Upper
91 100
126 32.4 15.2 45.5



#90
Hexachloroethane
Concen: 3.443 ug/l
RT: 12.73 min Scan# 1910
Delta R.T. 0.15 min
Lab File: VX017169.D
Acq: 06 Jul 2020 15:40

Tgt Ion: 117 Resp: 10699
Ion Ratio Lower Upper
117 100
201 0.4 39.4 118.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.405 ug/l

RT: 13.00 min Scan# 1954

Delta R.T. 0.02 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

50BR-20200629

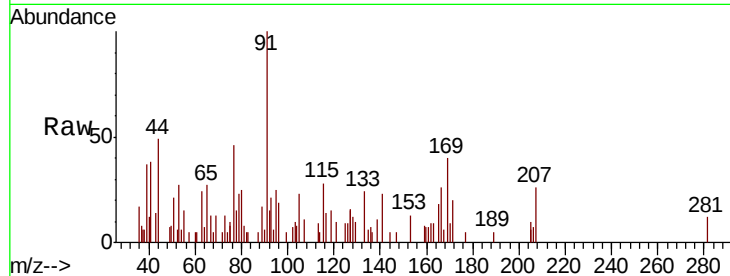
Tot Ion: 75 Resp: 537

Ion Ratio Lower Upper

75 100

155 10.4 45.1 135.2#

157 7.6 56.5 169.3#

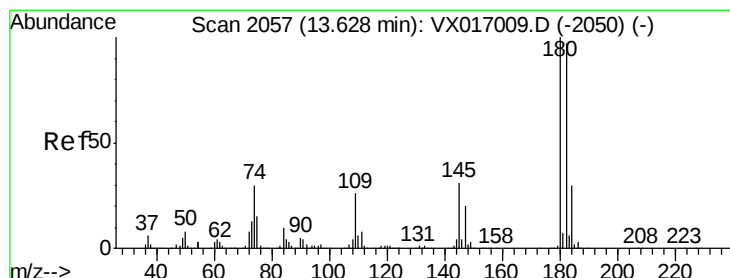
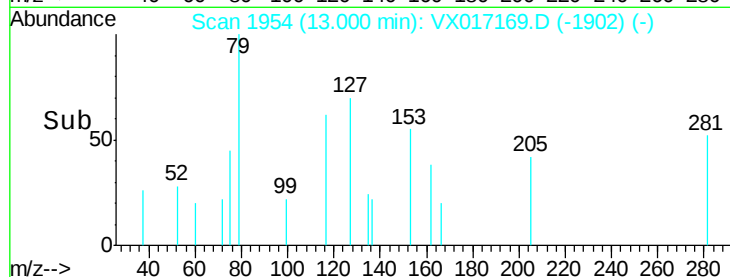


Abundance Ion 74.90 (74.60 to 75.60): VX017169.D (-1902) (-)

Ion 154.80 (154.50 to 155.50): VX017169.D (-1902) (-)

Ion 156.80 (156.50 to 157.50): VX017169.D (-1902) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.202 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

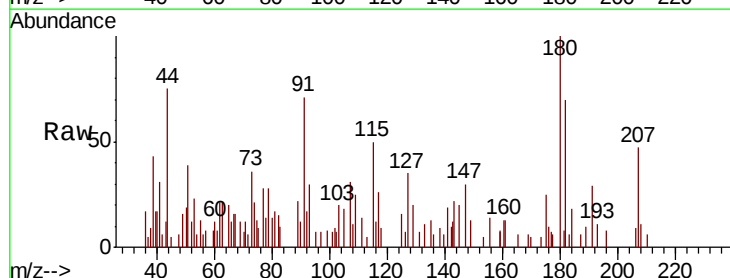
Tgt Ion: 180 Resp: 1136

Ion Ratio Lower Upper

180 100

182 79.8 47.3 141.9

145 29.8 15.4 46.2

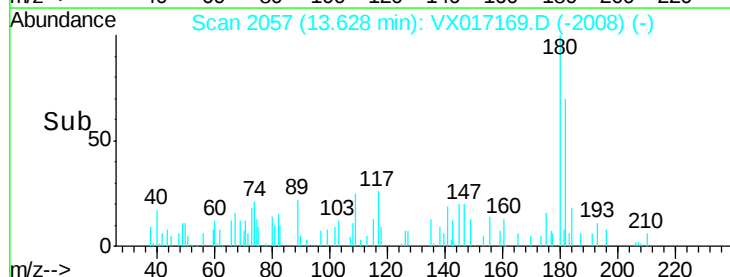


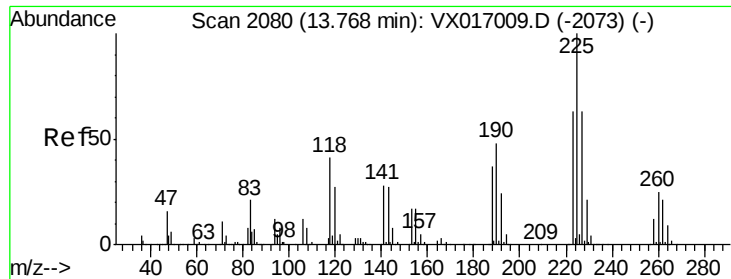
Abundance Ion 179.80 (179.50 to 180.50): VX017169.D (-2008) (-)

Ion 181.80 (181.50 to 182.50): VX017169.D (-2008) (-)

Ion 144.80 (144.50 to 145.50): VX017169.D (-2008) (-)

Time-->





#94

Hexachlorobutadiene

Concen: 1.265 ug/l

RT: 13.77 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX017169.D

Acq: 06 Jul 2020 15:40

Instrument :

MSVOA_X

ClientSampleId :

50BR-20200629

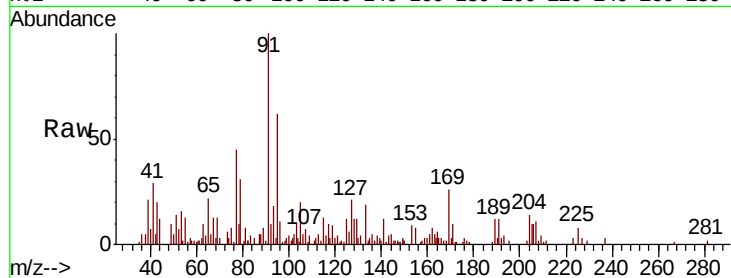
Tot Ion:225 Resp: 915

Ion Ratio Lower Upper

225 100

223 33.2 32.5 97.5

227 57.2 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

