

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082020\
 Data File : VX018029.D
 Acq On : 20 Aug 2020 13:01
 Operator : JC/SP
 Sample : L3738-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB181-GW-378-380

Quant Time: Aug 21 01:24:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081920W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 05:36:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	592282	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	927913	50.00	ug/l	-0.01
63) Chlorobenzene-d5	10.10	117	842728	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	425184	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	383259	44.14	ug/l	0.00
Spiked Amount			Recovery	=	88.28%	
35) Dibromofluoromethane	5.46	113	306157	44.31	ug/l	0.00
Spiked Amount			Recovery	=	88.62%	
50) Toluene-d8	8.70	98	1114078	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	
62) 4-Bromofluorobenzene	11.12	95	415161	46.02	ug/l	0.00
Spiked Amount			Recovery	=	92.04%	

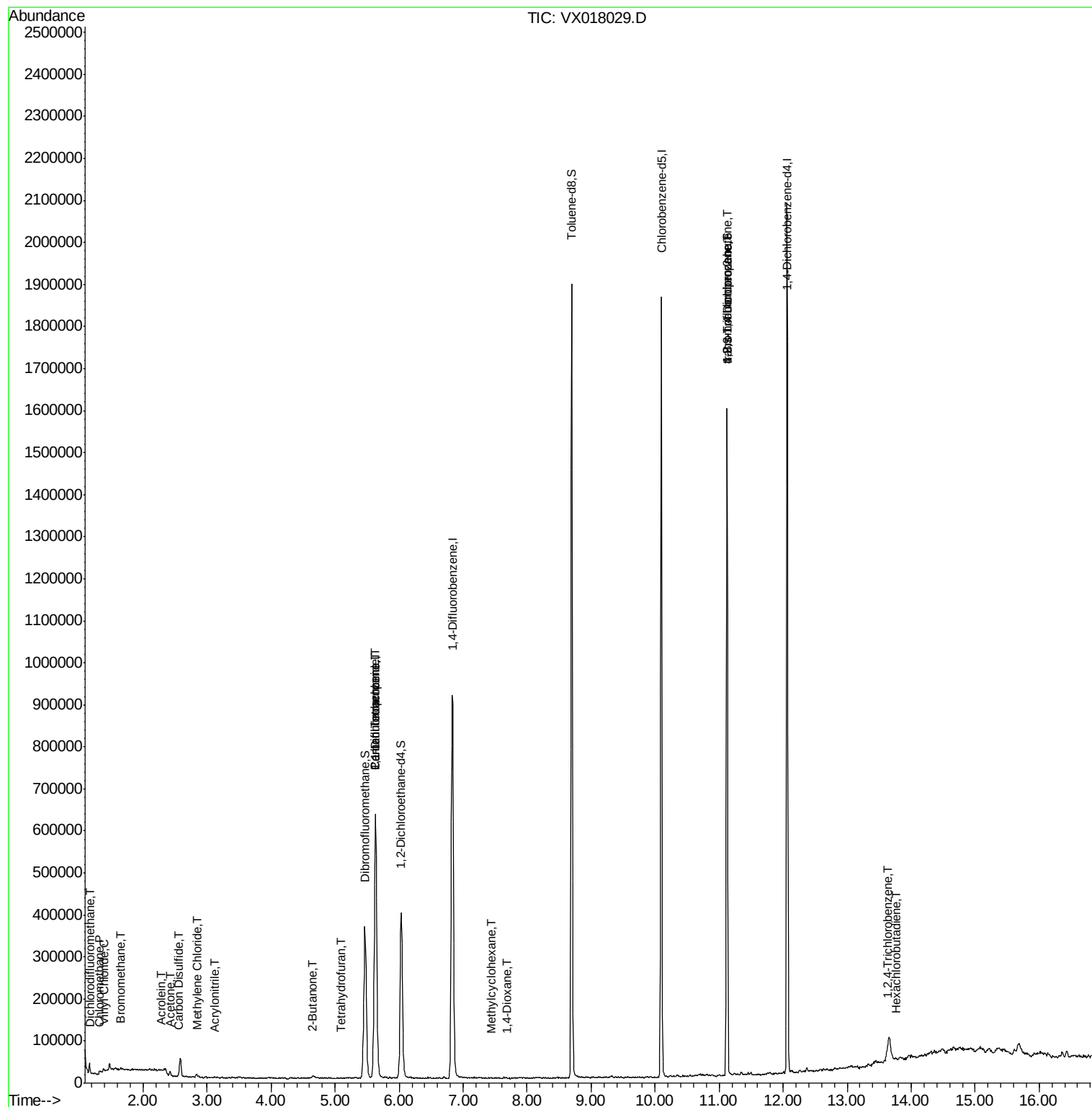
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	552	1.050	ug/l #	72
3) Chloromethane	1.32	50	1760	0.217	ug/l #	65
4) Vinyl Chloride	1.40	62	508	2.317	ug/l #	44
5) Bromomethane	1.65	94	1349	0.298	ug/l	87
13) Acrolein	2.28	56	595	0.672	ug/l #	65
15) Acrylonitrile	3.12	53	835	0.228	ug/l #	75
16) Acetone	2.42	43	10688	3.129	ug/l	92
17) Carbon Disulfide	2.55	76	4174	0.322	ug/l #	81
20) Methylene Chloride	2.84	84	3319	0.527	ug/l #	85
25) 2-Butanone	4.65	43	1056	0.204	ug/l #	72
29) Tetrahydrofuran	5.09	42	903	0.281	ug/l #	54
36) 1,1-Dichloropropene	5.64	75	43927	5.656	ug/l #	52
38) Carbon Tetrachloride	5.63	117	57697	5.740	ug/l #	16
39) Methylcyclohexane	7.44	83	1049	0.917	ug/l #	63
49) 1,4-Dioxane	7.69	88	243	1.596	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	206083	22.791	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	206083	59.875	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	1875	0.223	ug/l #	36
94) Hexachlorobutadiene	13.76	225	1250	0.349	ug/l	72

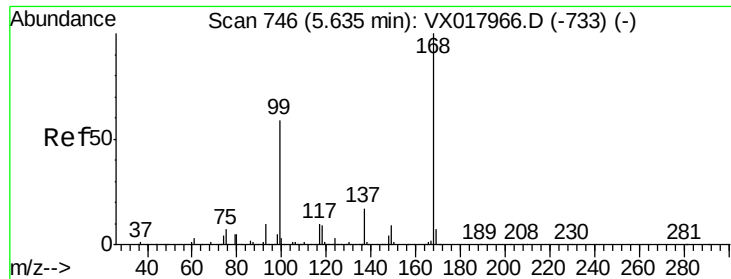
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 19 05:36:51 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

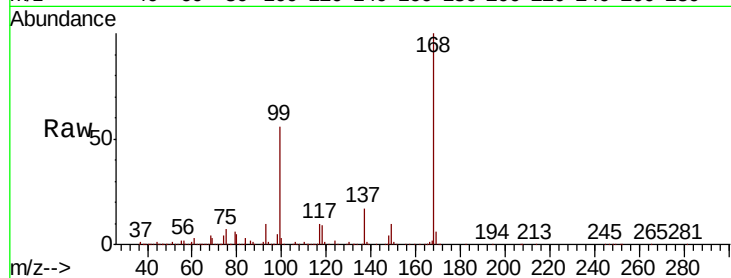
BP-VPB181-GW-378-380

Tot Ion:168 Resp: 592282

Ion Ratio Lower Upper

168 100

99 55.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

250000

200000

150000

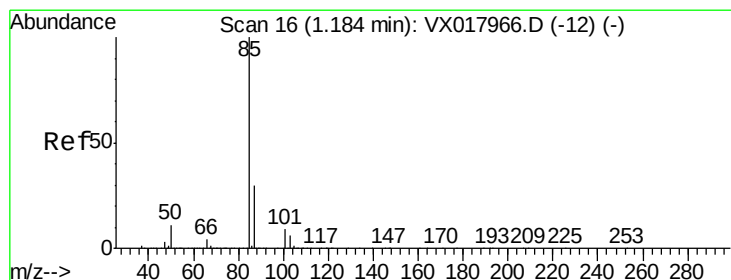
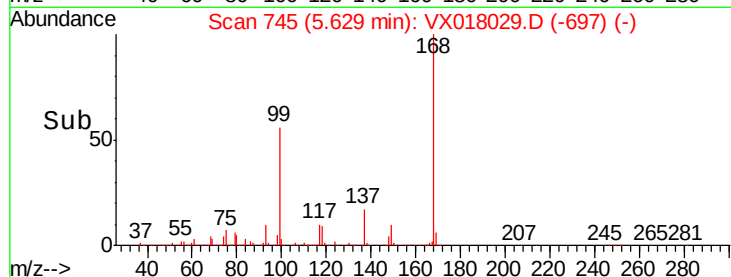
100000

50000

0

Time-->

5.50 5.60 5.70



#2

Dichlorodifluoromethane

Concen: 1.050 ug/l

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX018029.D

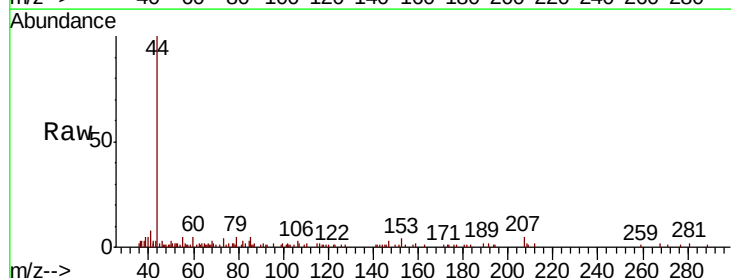
Acq: 20 Aug 2020 13:01

Tgt Ion: 85 Resp: 552

Ion Ratio Lower Upper

85 100

87 15.1 15.3 45.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

600

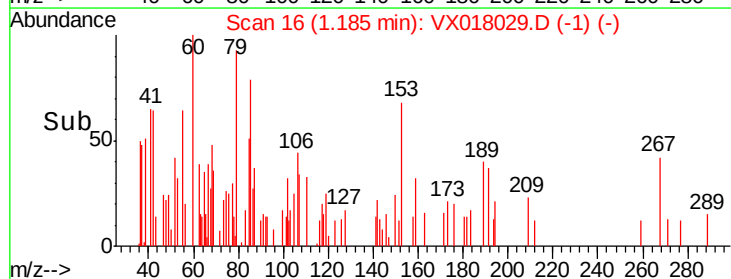
400

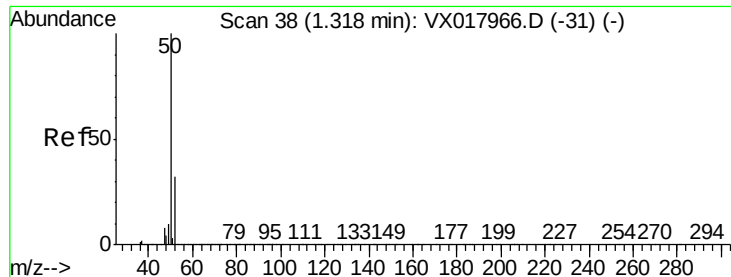
200

0

Time-->

1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.217 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.00 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

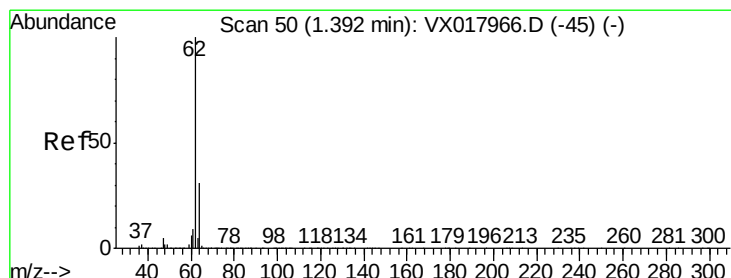
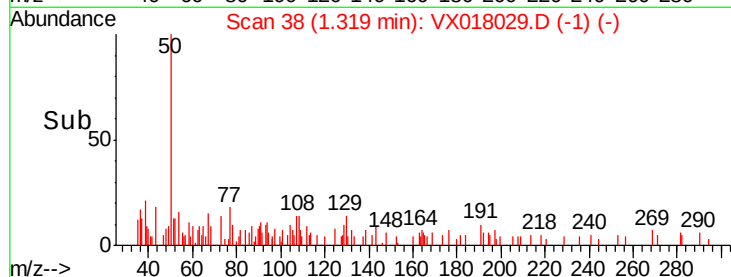
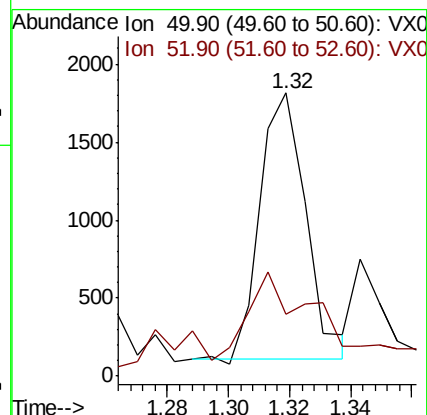
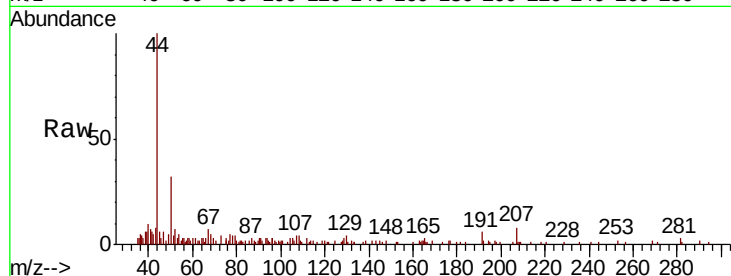
BP-VPB181-GW-378-380

Tot Ion: 50 Resp: 1760

Ion Ratio Lower Upper

50 100

52 12.2 25.4 38.0#



#4

Vinyl Chloride

Concen: 2.317 ug/l

RT: 1.40 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX018029.D

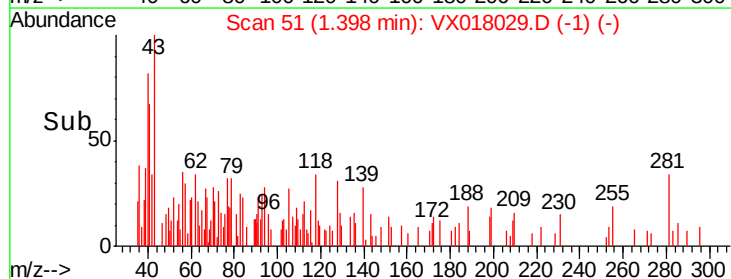
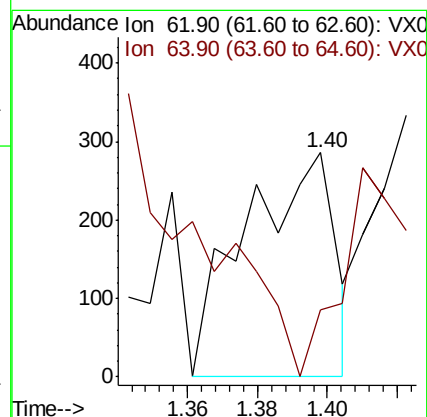
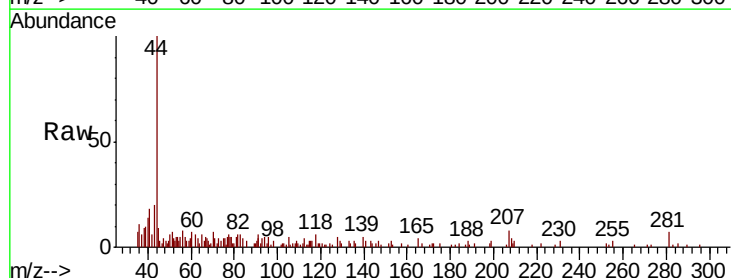
Acq: 20 Aug 2020 13:01

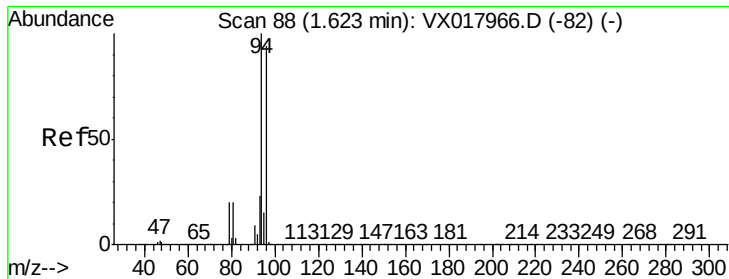
Tgt Ion: 62 Resp: 508

Ion Ratio Lower Upper

62 100

64 0.0 24.7 37.1#





#5

Bromomethane

Concen: 0.298 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

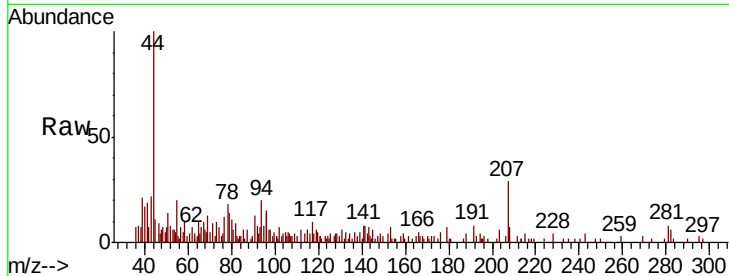
BP-VPB181-GW-378-380

Tot Ion: 94 Resp: 1349

Ion Ratio Lower Upper

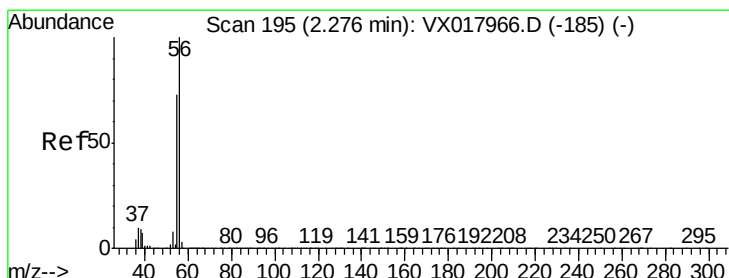
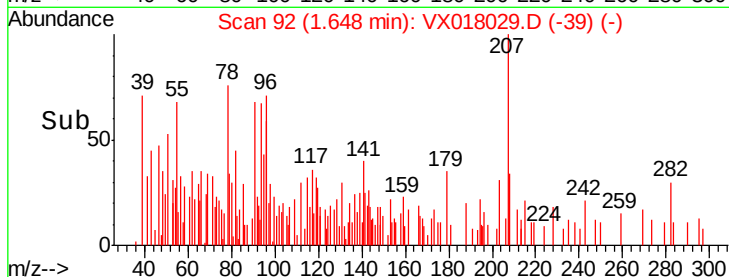
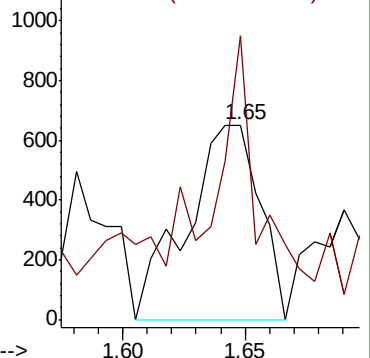
94 100

96 107.2 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#13

Acrolein

Concen: 0.672 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.00 min

Lab File: VX018029.D

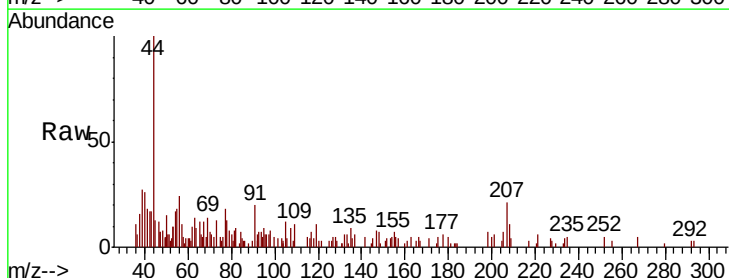
Acq: 20 Aug 2020 13:01

Tgt Ion: 56 Resp: 595

Ion Ratio Lower Upper

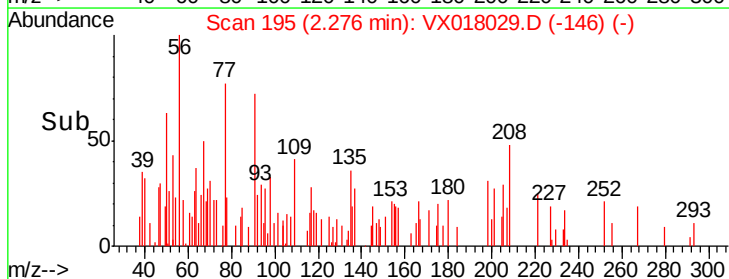
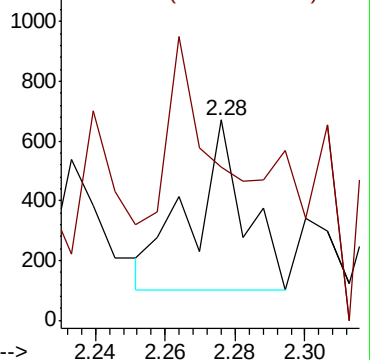
56 100

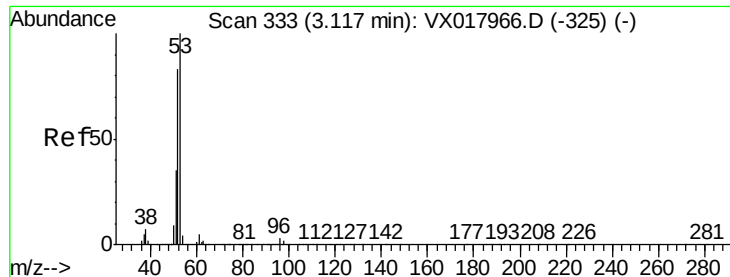
55 102.2 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.228 ug/l

RT: 3.12 min Scan# 333

Delta R.T. 0.00 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-378-380

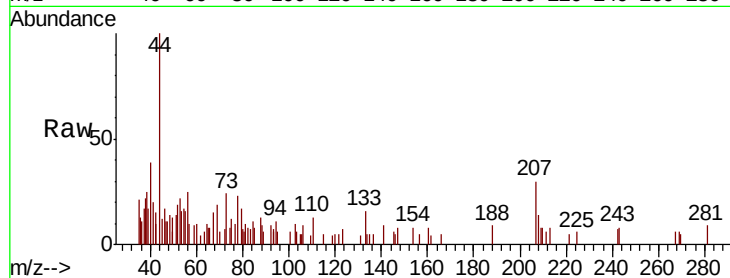
Tot Ion: 53 Resp: 835

Ion Ratio Lower Upper

53 100

52 65.0 67.1 100.7#

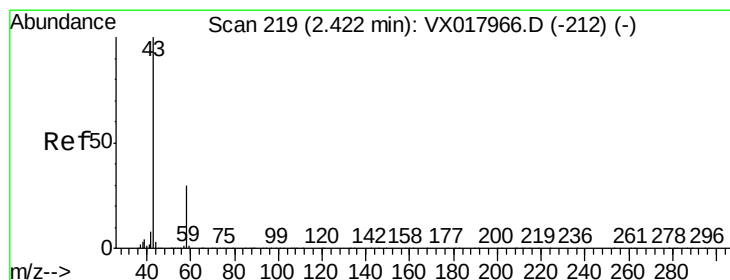
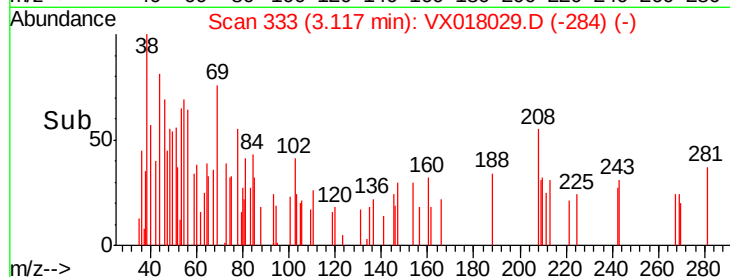
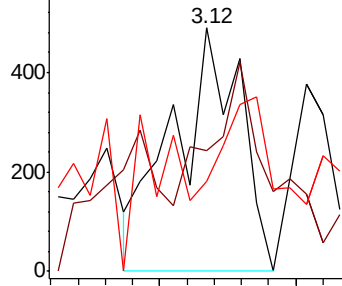
51 56.2 29.2 43.8#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 3.129 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX018029.D

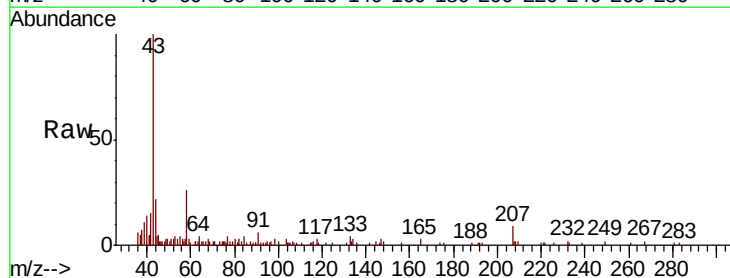
Acq: 20 Aug 2020 13:01

Tgt Ion: 43 Resp: 10688

Ion Ratio Lower Upper

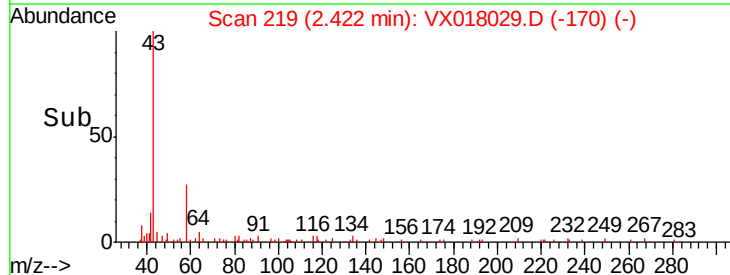
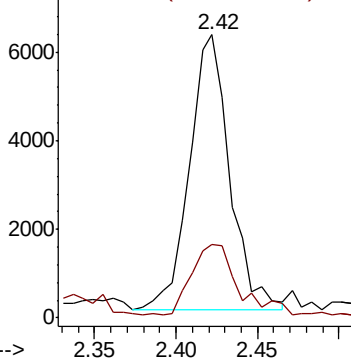
43 100

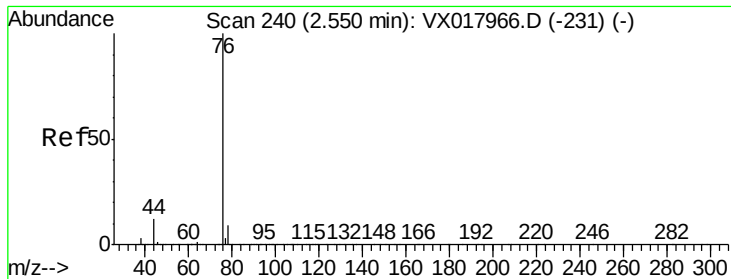
58 25.2 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.322 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

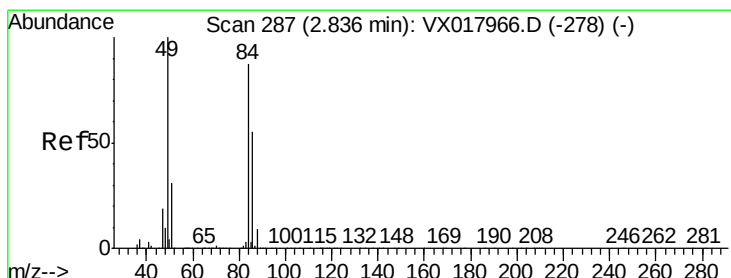
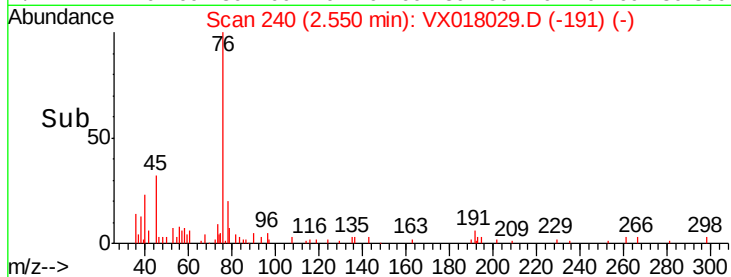
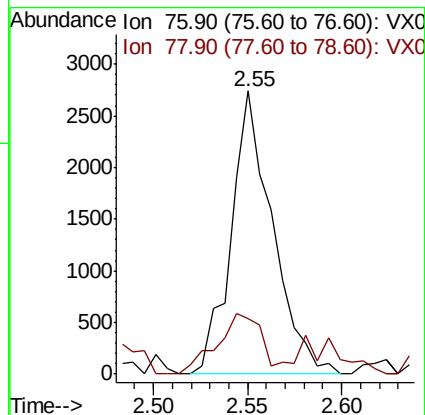
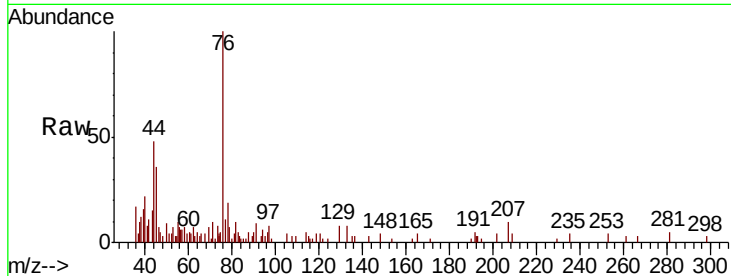
BP-VPB181-GW-378-380

Tot Ion: 76 Resp: 4174

Ion Ratio Lower Upper

76 100

78 16.1 7.3 10.9#



#20

Methylene Chloride

Concen: 0.527 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.00 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Tgt Ion: 84 Resp: 3319

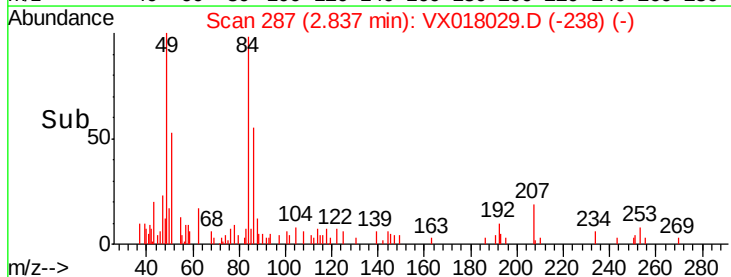
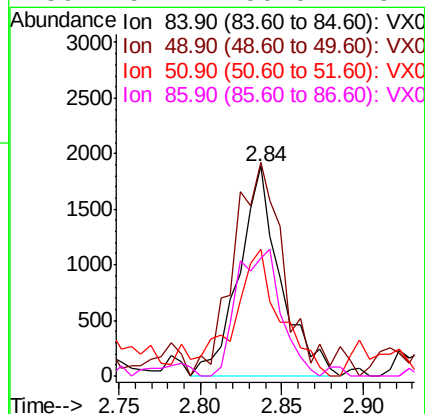
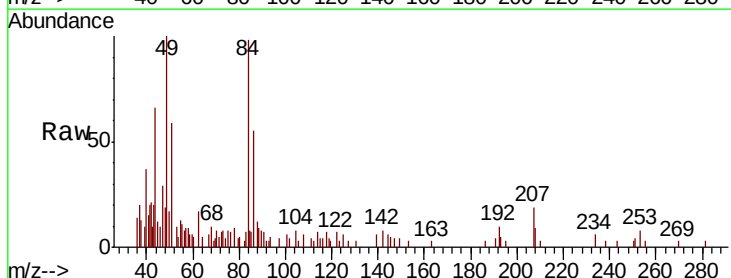
Ion Ratio Lower Upper

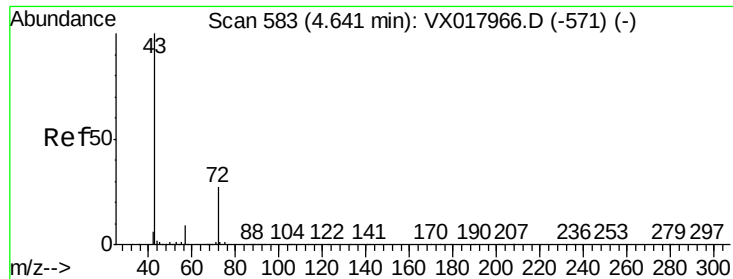
84 100

49 101.9 91.8 137.6

51 52.0 27.8 41.8#

86 52.1 50.5 75.7

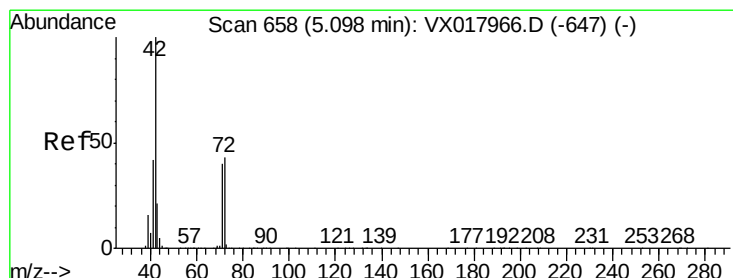
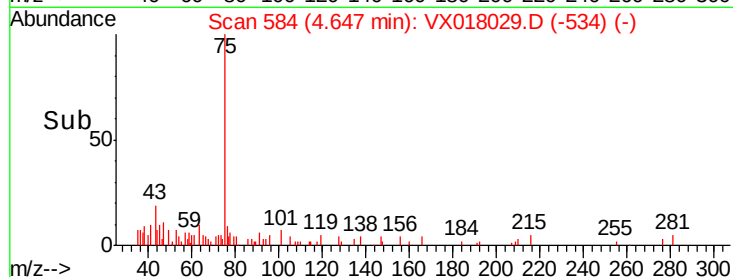
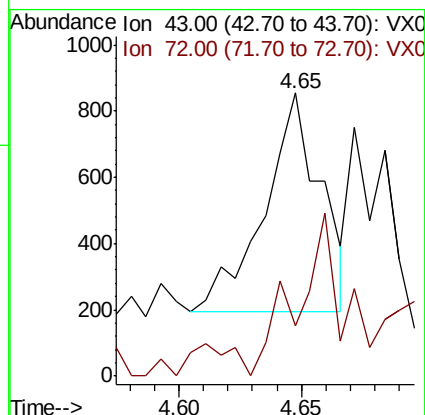
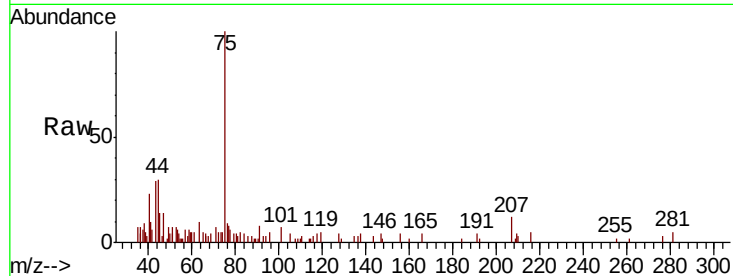




#25
2-Butanone
Concen: 0.204 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018029.D
Acq: 20 Aug 2020 13:01

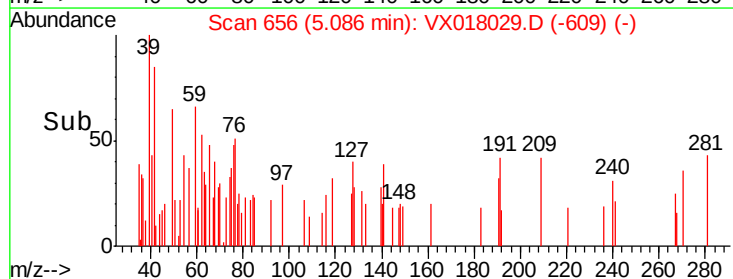
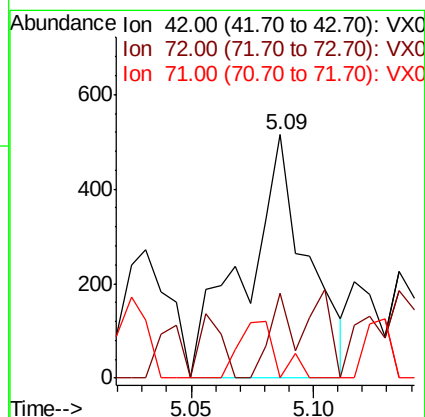
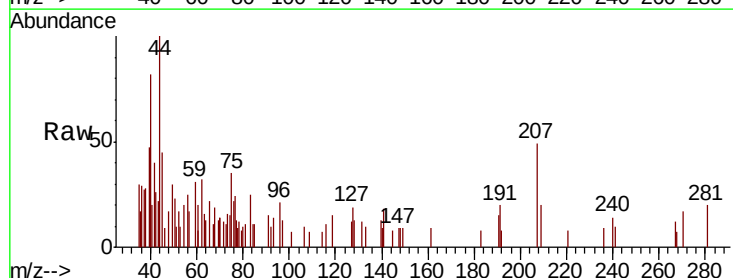
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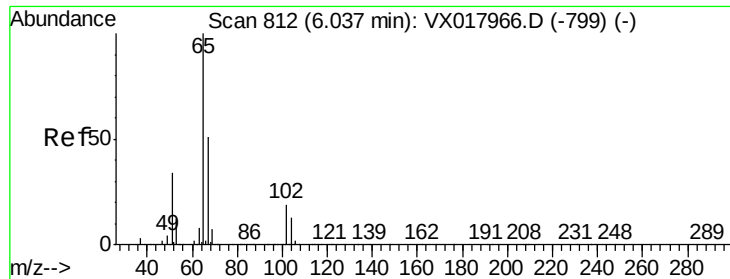
Tot Ion: 43 Resp: 1056
Ion Ratio Lower Upper
43 100
72 12.5 21.4 32.2#



#29
Tetrahydrofuran
Concen: 0.281 ug/l
RT: 5.09 min Scan# 656
Delta R.T. -0.01 min
Lab File: VX018029.D
Acq: 20 Aug 2020 13:01

Tgt Ion: 42 Resp: 903
Ion Ratio Lower Upper
42 100
72 12.4 35.9 53.9#
71 14.3 33.0 49.4#

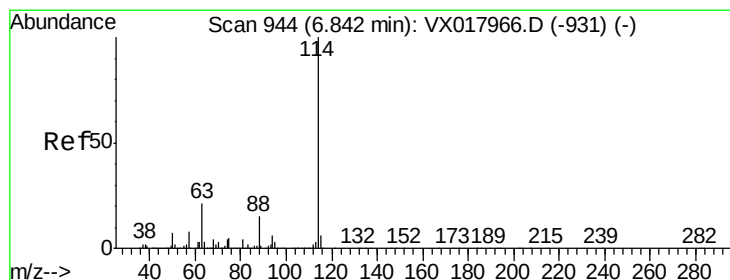
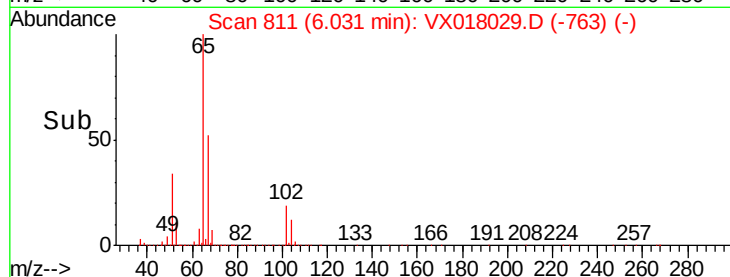
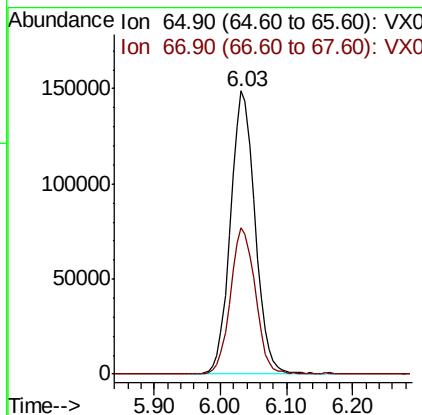
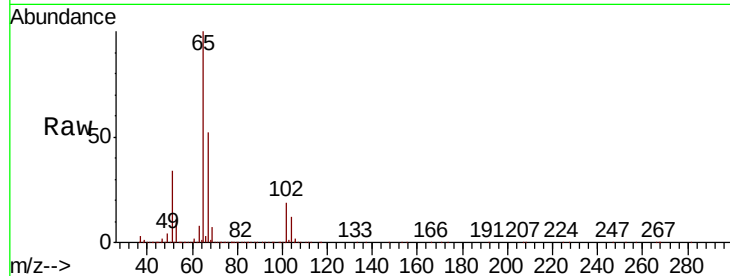




#33
 1,2-Dichloroethane-d4
 Concen: 44.142 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. -0.01 min
 Lab File: VX018029.D
 Acq: 20 Aug 2020 13:01

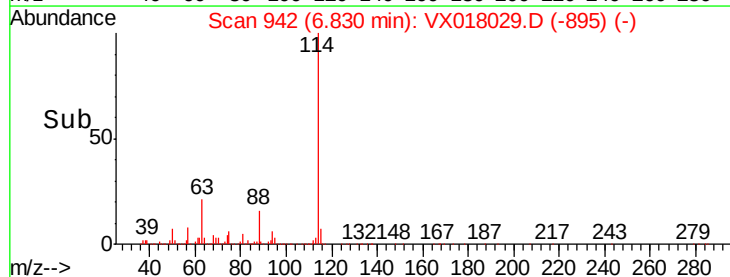
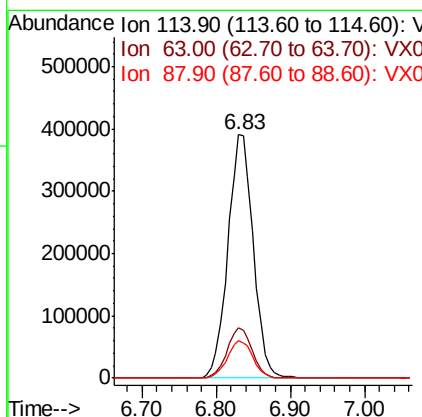
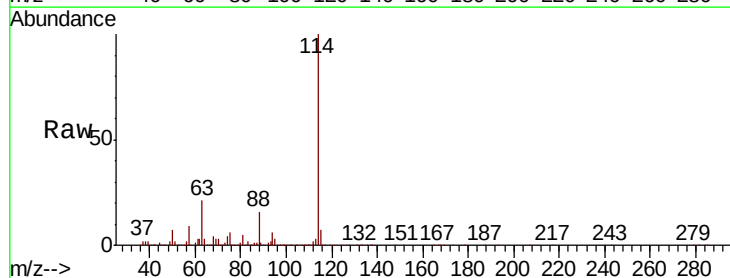
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 MSVOA_X
 ClientSampleId :
 BP-VPB181-GW-378-380

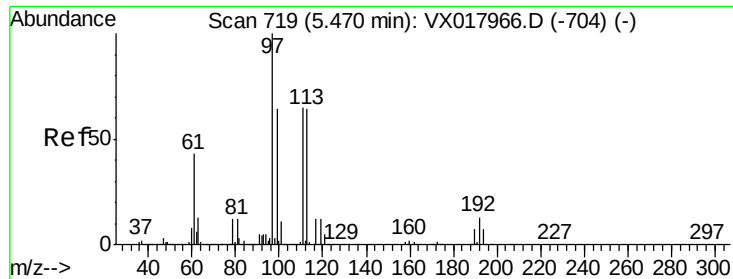
Tot Ion: 65 Resp: 383259
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.01 min
 Lab File: VX018029.D
 Acq: 20 Aug 2020 13:01

Tgt Ion: 114 Resp: 927913
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 42.6
 88 15.5 0.0 30.2





#35

Dibromofluoromethane

Concen: 44.306 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-378-380

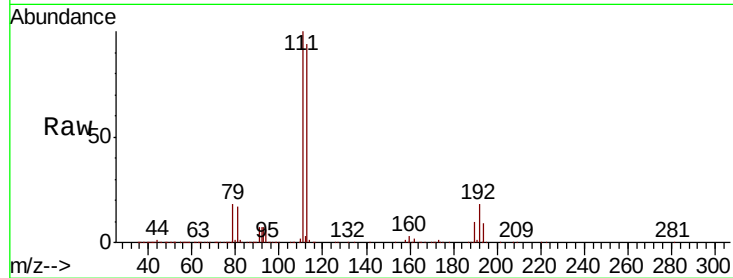
Tot Ion:113 Resp: 306157

Ion Ratio Lower Upper

113 100

111 105.5 83.5 125.3

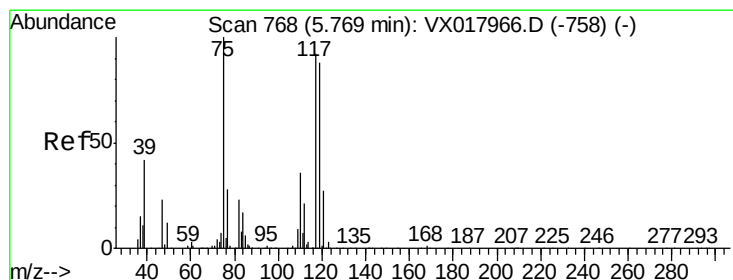
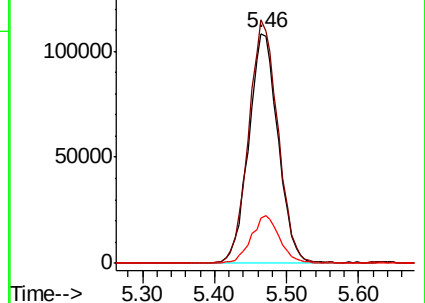
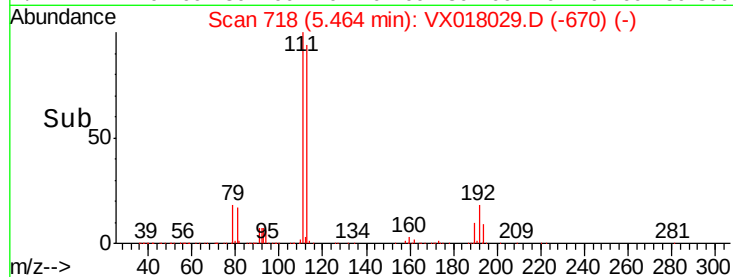
192 20.3 16.2 24.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.656 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

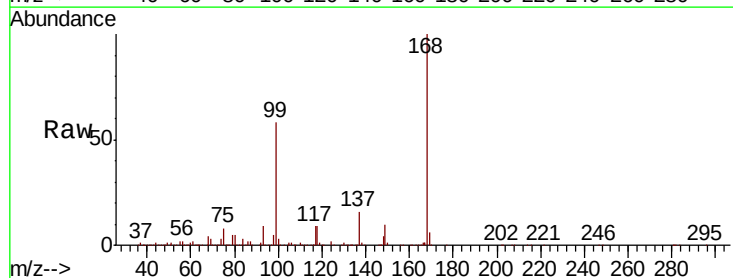
Tgt Ion: 75 Resp: 43927

Ion Ratio Lower Upper

75 100

110 11.8 18.7 56.1#

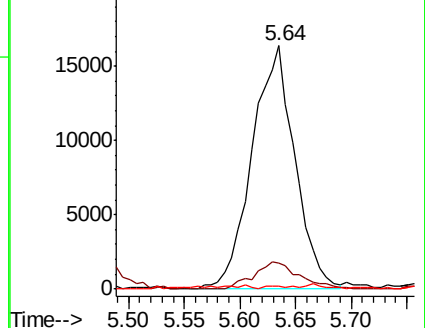
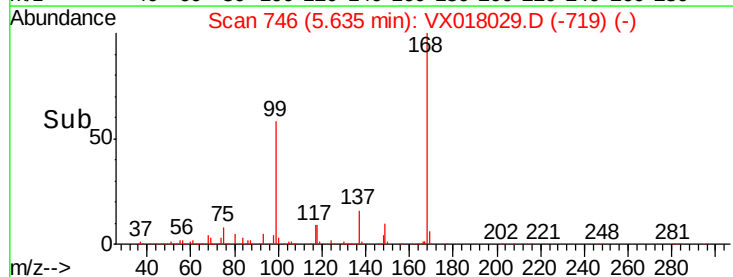
77 0.6 24.4 36.6#

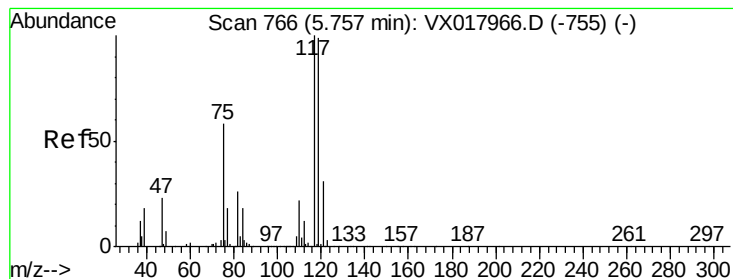


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.740 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-378-380

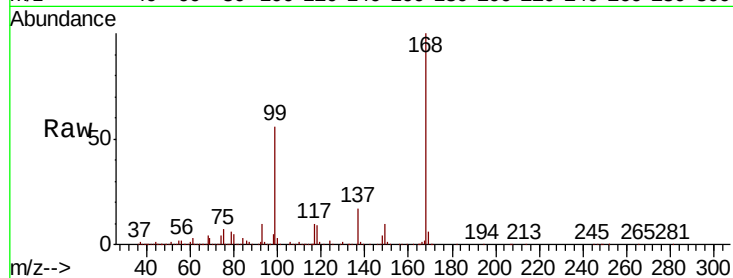
Tot Ion:117 Resp: 57697

Ion Ratio Lower Upper

117 100

119 7.1 79.0 118.6#

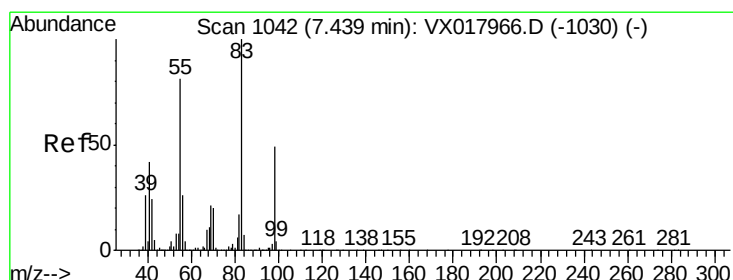
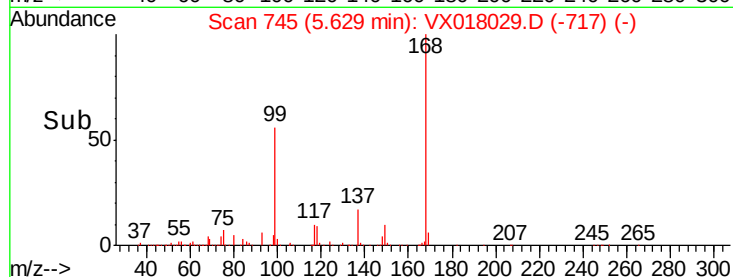
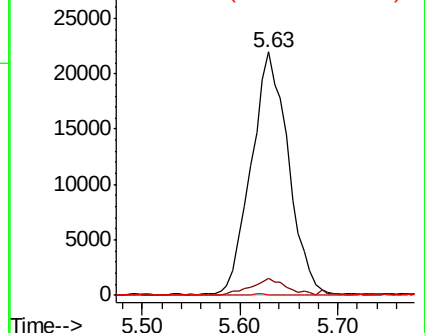
121 0.3 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.917 ug/l

RT: 7.44 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

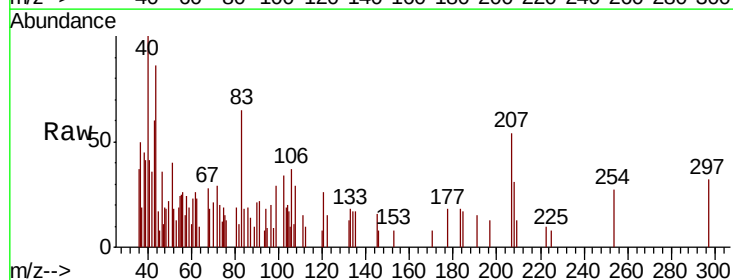
Tgt Ion: 83 Resp: 1049

Ion Ratio Lower Upper

83 100

55 53.4 64.5 96.7#

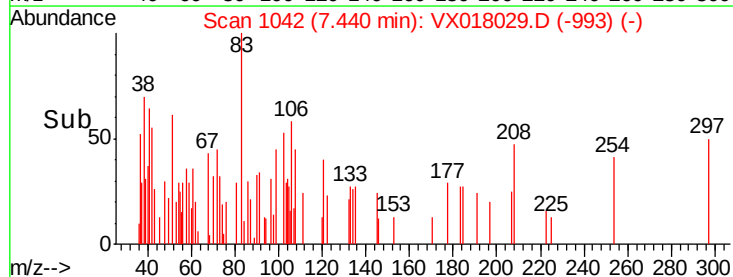
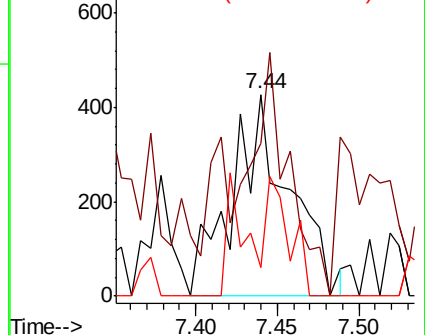
98 16.3 39.0 58.6#

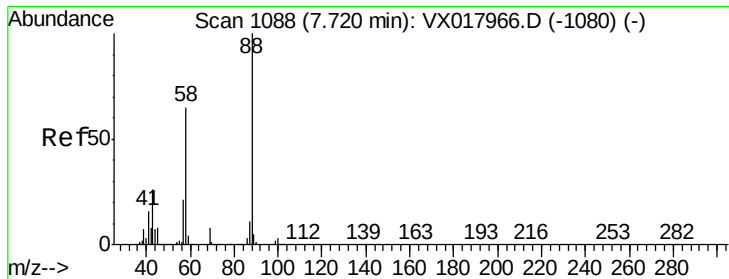


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#49

1,4-Dioxane

Concen: 1.596 ug/l

RT: 7.69 min Scan# 1083

Delta R.T. -0.03 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-378-380

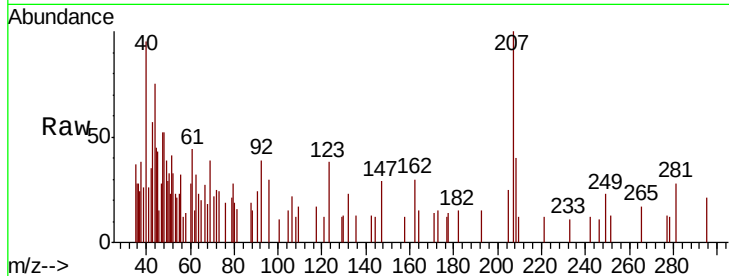
Tot Ion: 88 Resp: 243

Ion Ratio Lower Upper

88 100

43 90.1 27.3 40.9#

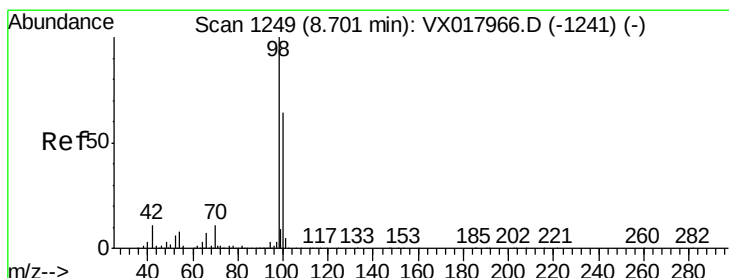
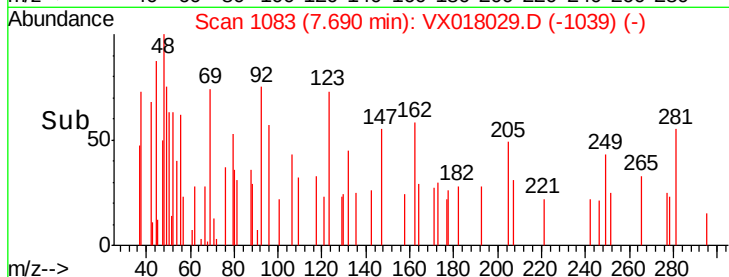
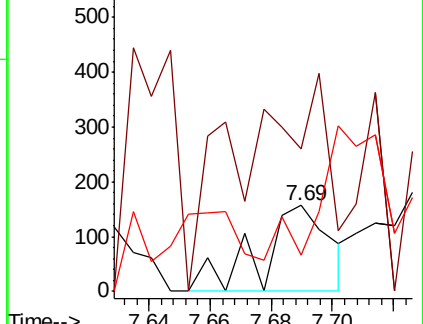
58 243.2 57.7 86.5#



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: 45.612 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VX018029.D

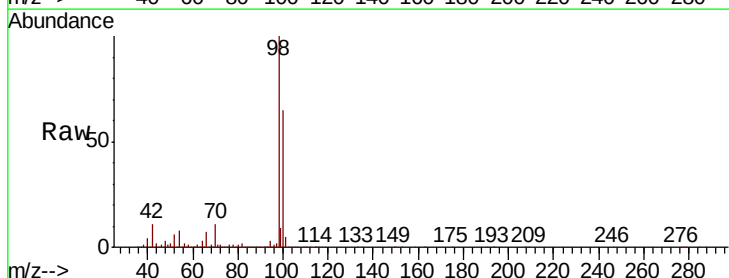
Acq: 20 Aug 2020 13:01

Tgt Ion: 98 Resp: 1114078

Ion Ratio Lower Upper

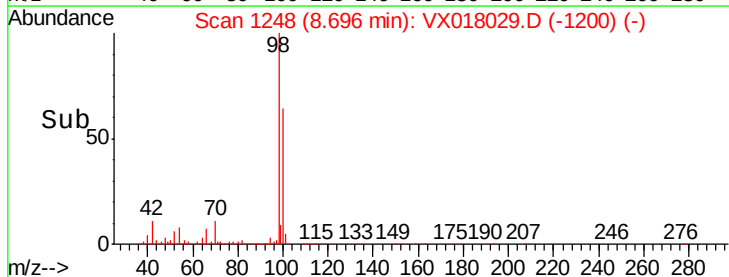
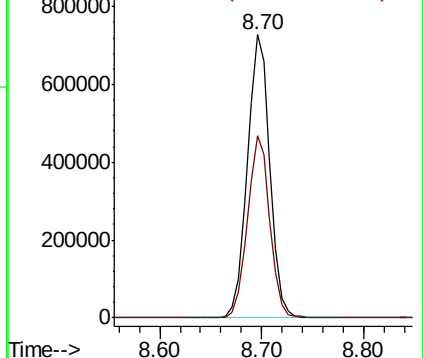
98 100

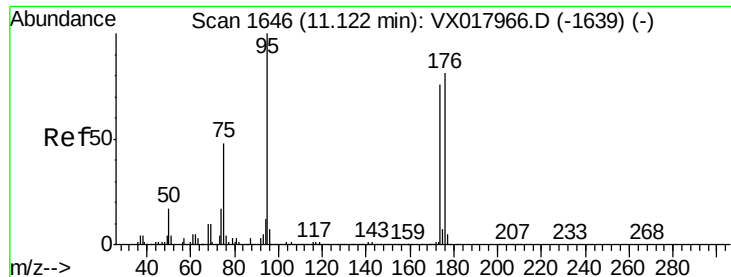
100 63.8 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.020 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-378-380

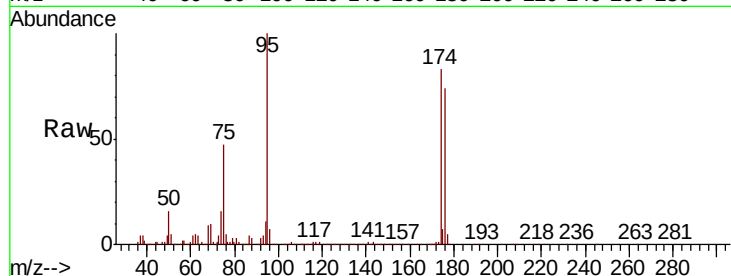
Tot Ion: 95 Resp: 415161

Ion Ratio Lower Upper

95 100

174 81.8 0.0 166.0

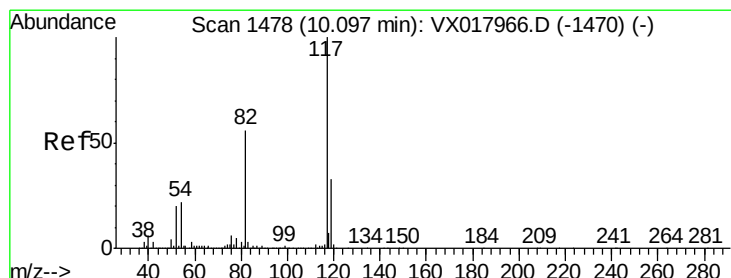
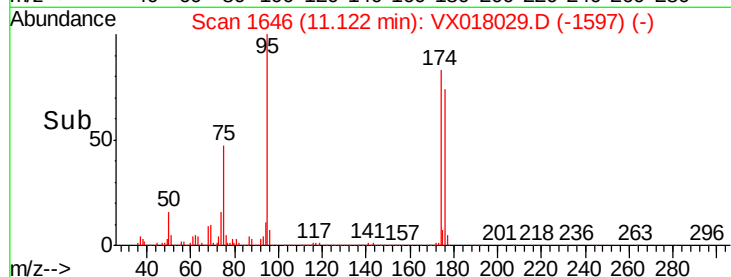
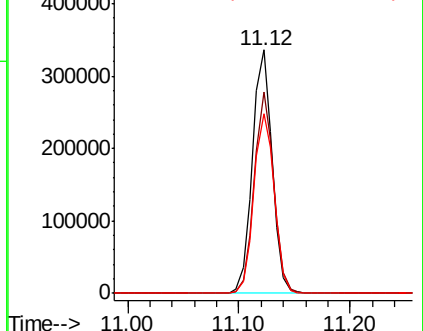
176 76.4 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

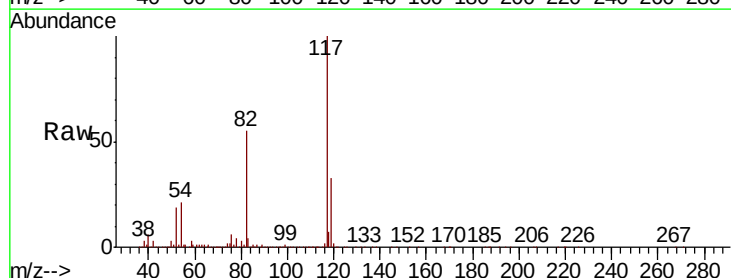
Tgt Ion: 117 Resp: 842728

Ion Ratio Lower Upper

117 100

82 54.6 44.6 66.8

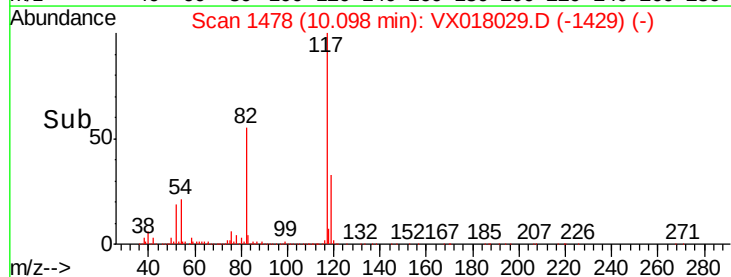
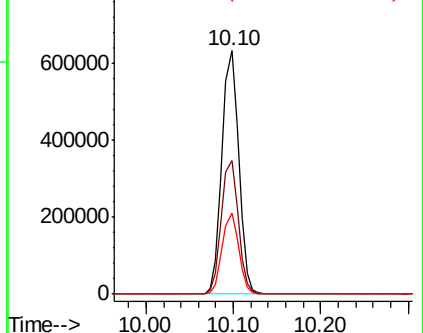
119 33.1 26.2 39.4

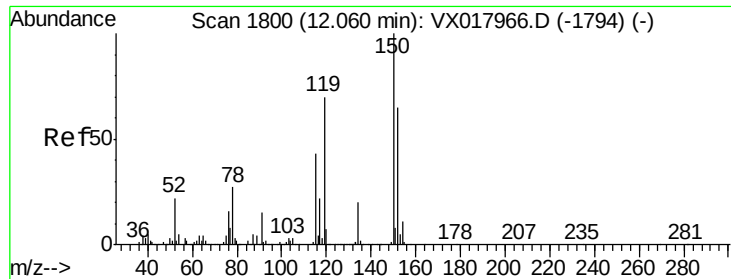


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-378-380

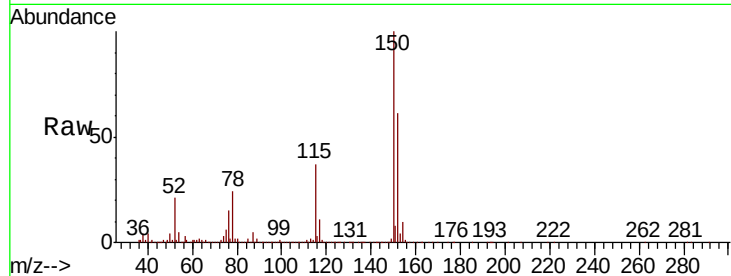
Tot Ion:152 Resp: 425184

Ion Ratio Lower Upper

152 100

115 59.4 40.6 121.7

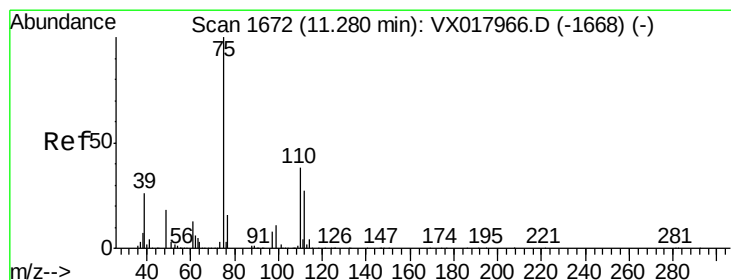
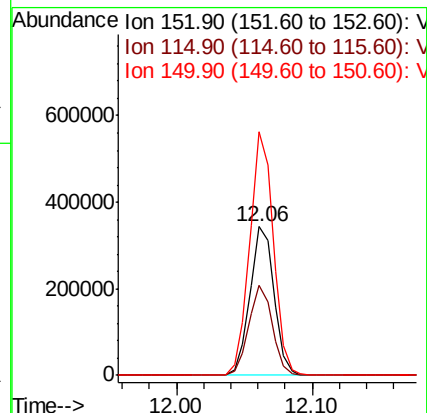
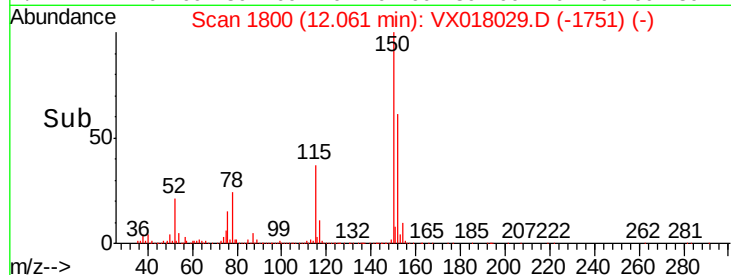
150 160.8 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.791 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018029.D

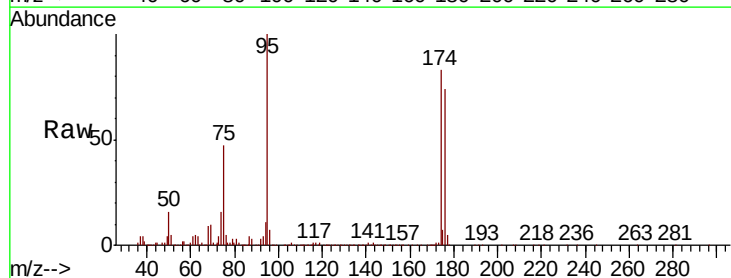
Acq: 20 Aug 2020 13:01

Tgt Ion: 75 Resp: 206083

Ion Ratio Lower Upper

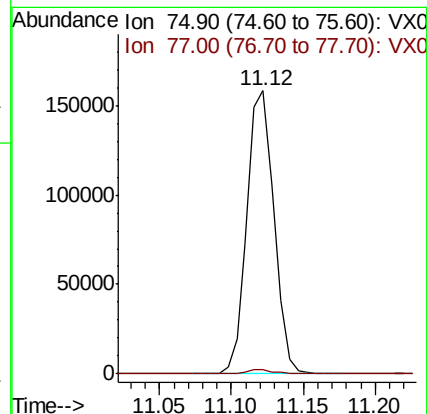
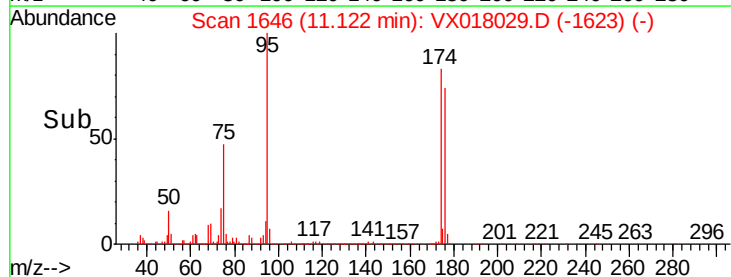
75 100

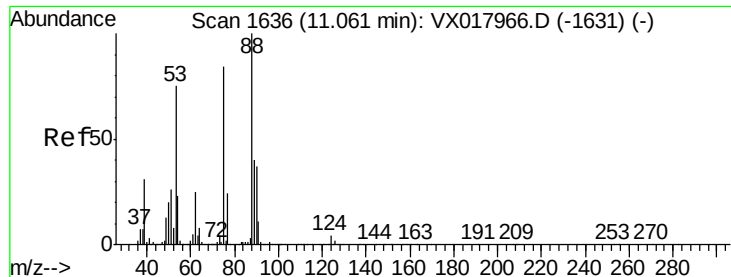
77 1.5 21.1 63.1#



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: 59.875 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-378-380

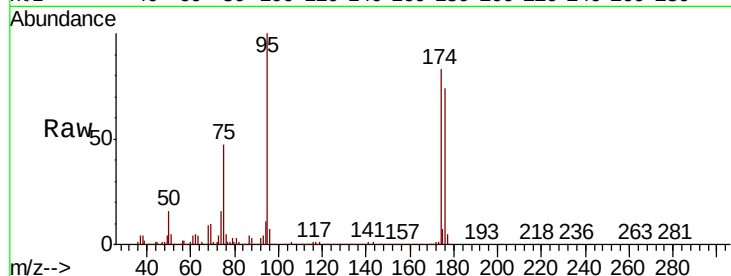
Tot Ion: 75 Resp: 206083

Ion Ratio Lower Upper

75 100

53 0.1 75.2 112.8#

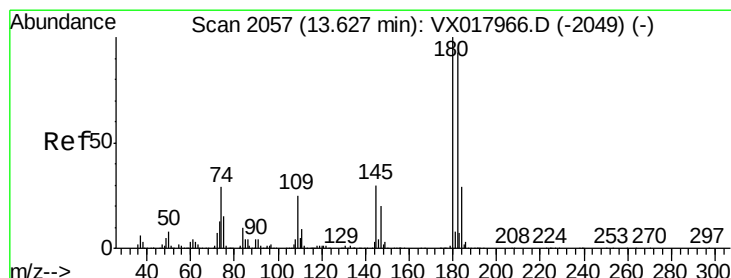
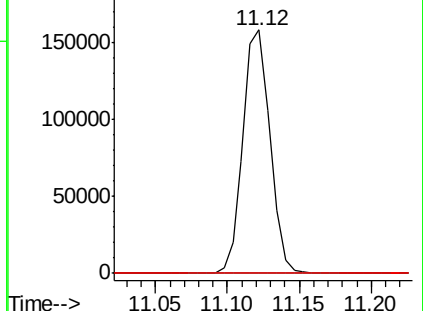
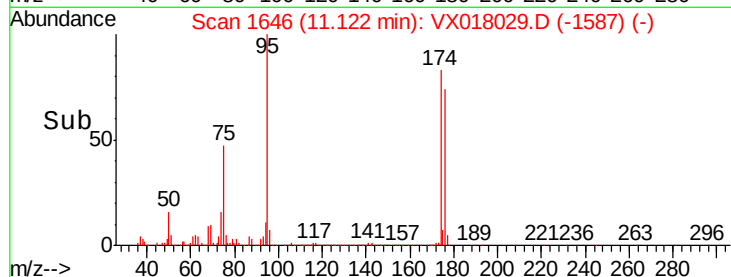
89 0.1 38.4 57.6#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.223 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

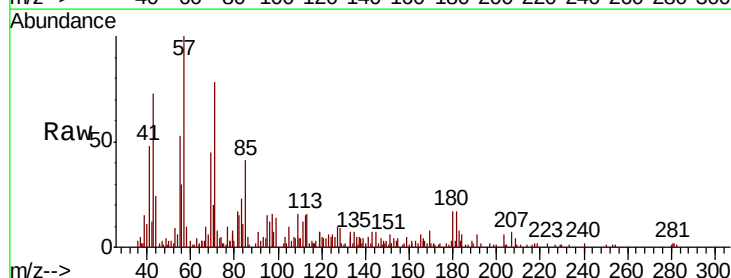
Tgt Ion: 180 Resp: 1875

Ion Ratio Lower Upper

180 100

182 179.8 48.8 146.4#

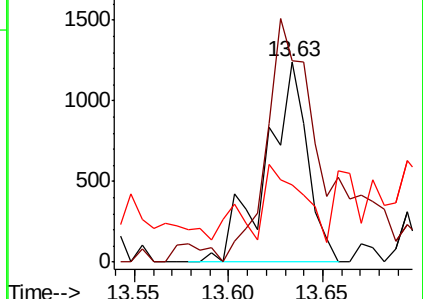
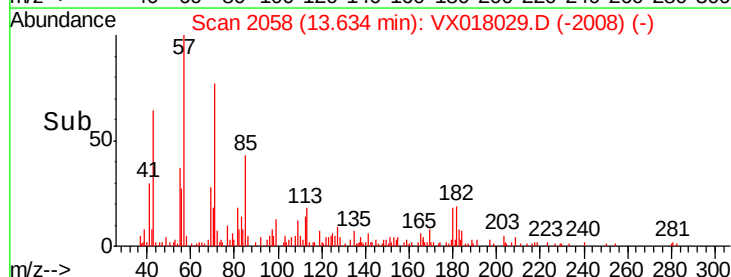
145 34.4 16.0 48.0

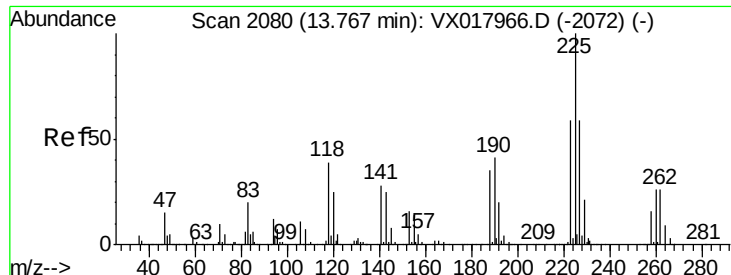


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.349 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX018029.D

Acq: 20 Aug 2020 13:01

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB181-GW-378-380

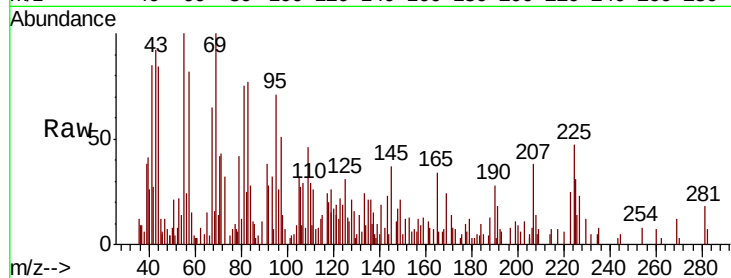
Tot Ion: 225 Resp: 1250

Ion Ratio Lower Upper

225 100

223 40.9 32.1 96.3

227 39.4 29.8 89.5



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

