

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080420\
 Data File : VX017768.D
 Acq On : 04 Aug 2020 14:16
 Operator : JC/SP
 Sample : L3556-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB179-GW-338-340

Quant Time: Aug 05 01:48:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	604530	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	877877	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	824536	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	421702	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	375095	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
35) Dibromofluoromethane	5.47	113	293256	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
50) Toluene-d8	8.70	98	1024075	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	
62) 4-Bromofluorobenzene	11.12	95	403398	47.59	ug/l	0.00
Spiked Amount			Recovery	=	95.18%	

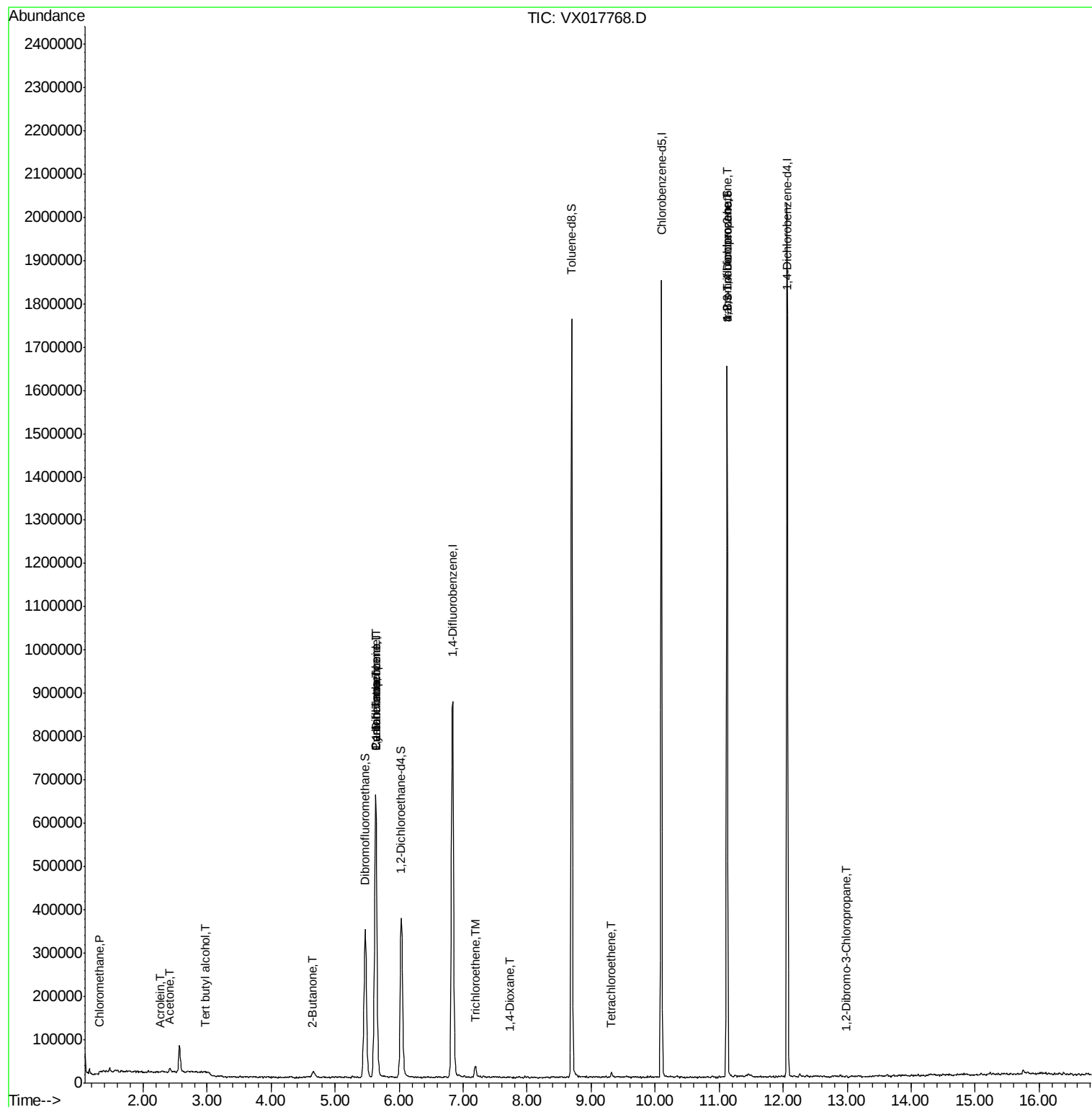
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	573	Below Cal	#	40
3) Chloromethane	1.32	50	1484	0.564	ug/l #	42
5) Bromomethane	1.63	94	419	Below Cal	#	26
6) Chloroethane	1.72	64	272	Below Cal	#	1
8) Diethyl Ether	2.19	74	352	Below Cal		52
11) Tert butyl alcohol	2.98	59	623	0.381	ug/l #	72
13) Acrolein	2.27	56	822	4.795	ug/l #	14
16) Acetone	2.42	43	9998	2.925	ug/l #	77
20) Methylene Chloride	2.82	84	458	Below Cal	#	71
25) 2-Butanone	4.64	43	3676	0.757	ug/l #	62
31) Cyclohexane	5.63	56	11930	1.246	ug/l #	21
36) 1,1-Dichloropropene	5.63	75	45678	5.425	ug/l #	52
38) Carbon Tetrachloride	5.63	117	61434	6.009	ug/l #	18
44) Trichloroethene	7.20	130	10602	1.503	ug/l	97
49) 1,4-Dioxane	7.72	88	209	1.447	ug/l #	23
64) Tetrachloroethene	9.32	164	1936	0.262	ug/l #	83
76) 1,2,3-Trichloropropane	11.12	75	206400	23.794	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	206400	59.955	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	188	2.646	ug/l #	54

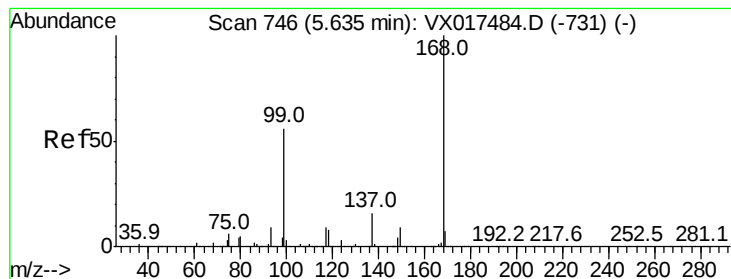
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 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: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

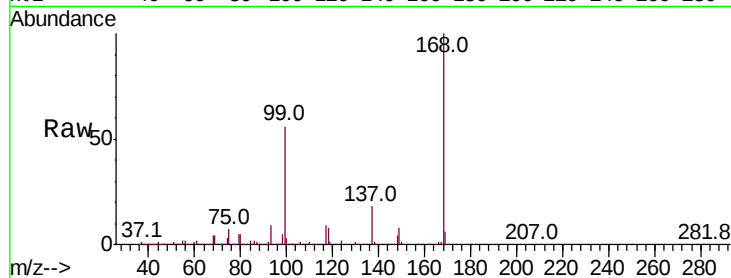
BP-VPB179-GW-338-340

Tot Ion:168 Resp: 604530

Ion Ratio Lower Upper

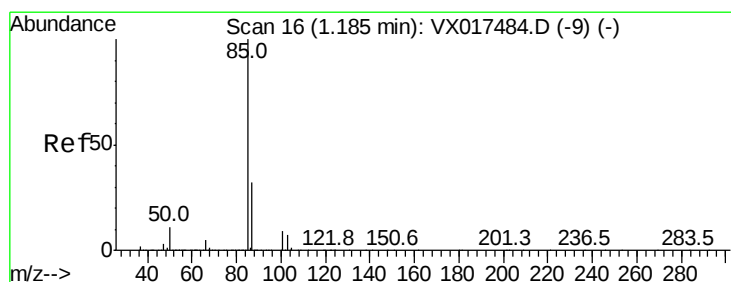
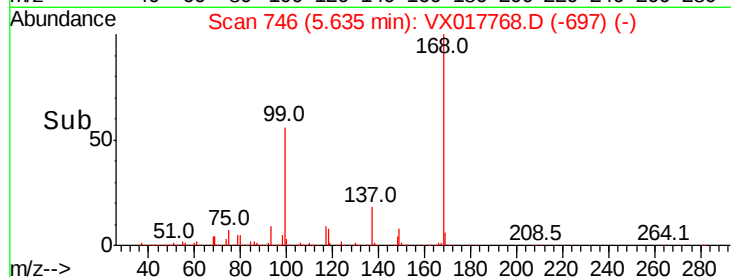
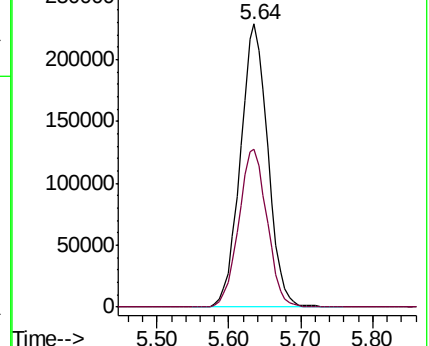
168 100

99 56.0 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017768.D

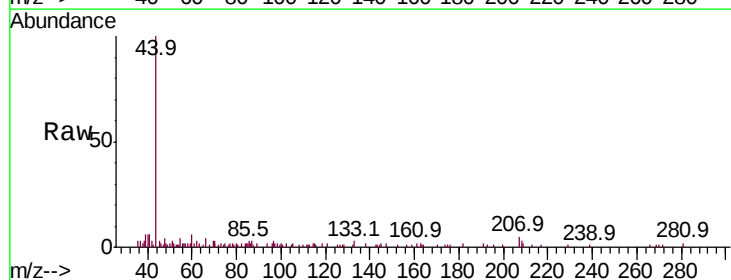
Acq: 04 Aug 2020 14:16

Tgt Ion: 85 Resp: 573

Ion Ratio Lower Upper

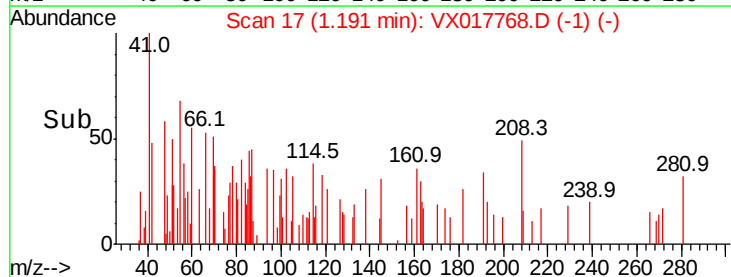
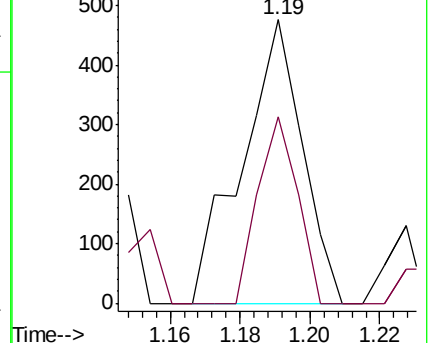
85 100

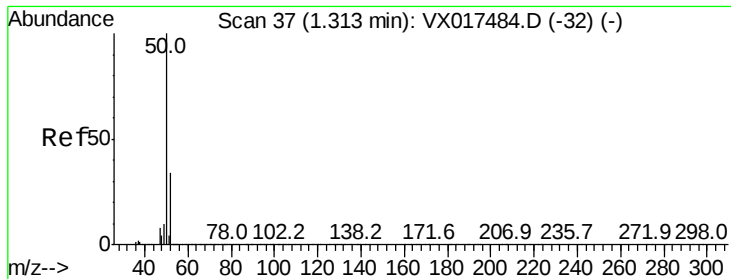
87 65.8 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.564 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

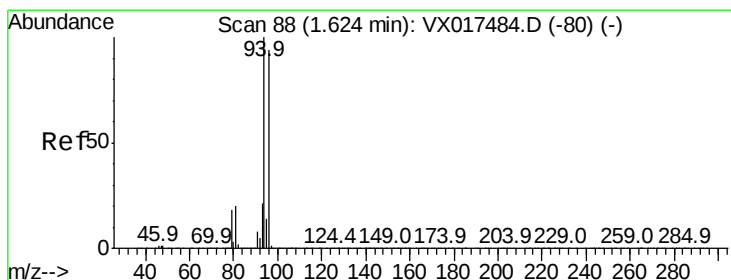
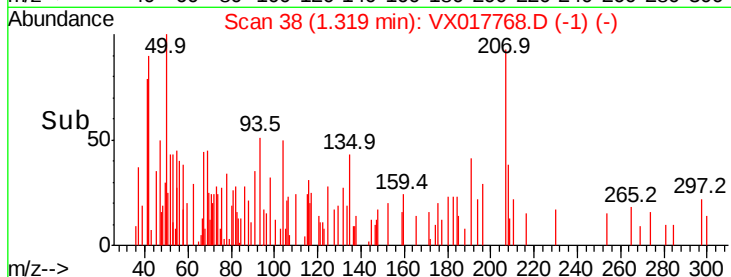
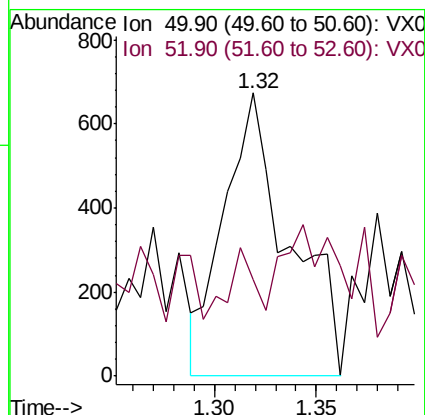
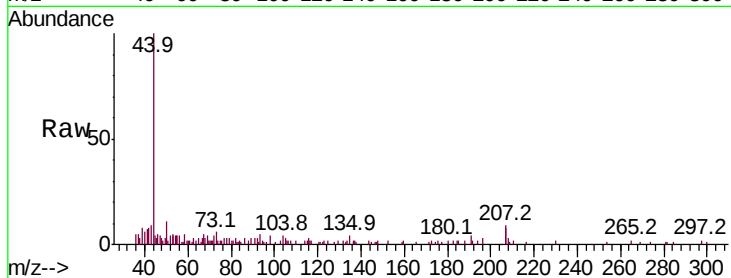
BP-VPB179-GW-338-340

Tot Ion: 50 Resp: 1484

Ion Ratio Lower Upper

50 100

52 0.0 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX017768.D

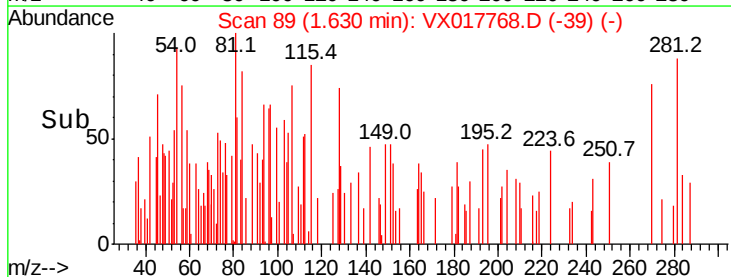
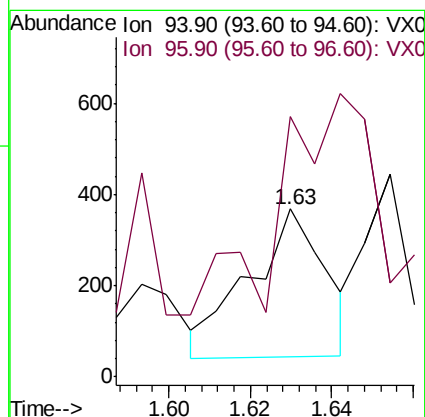
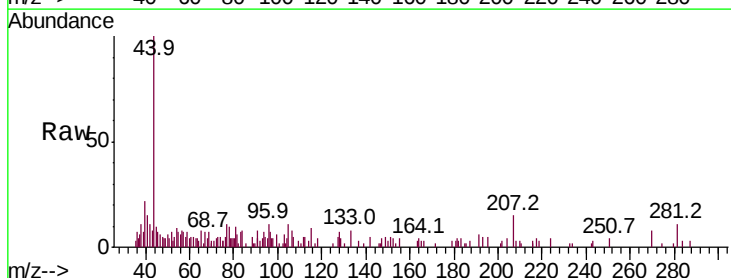
Acq: 04 Aug 2020 14:16

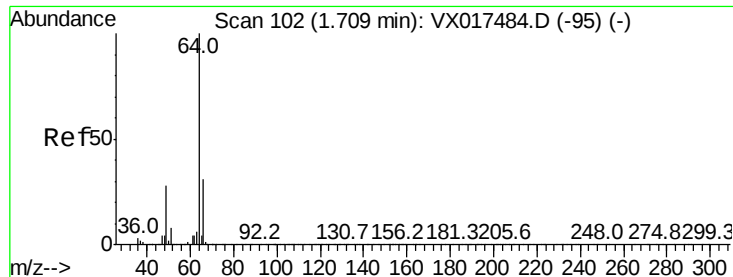
Tgt Ion: 94 Resp: 419

Ion Ratio Lower Upper

94 100

96 163.9 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

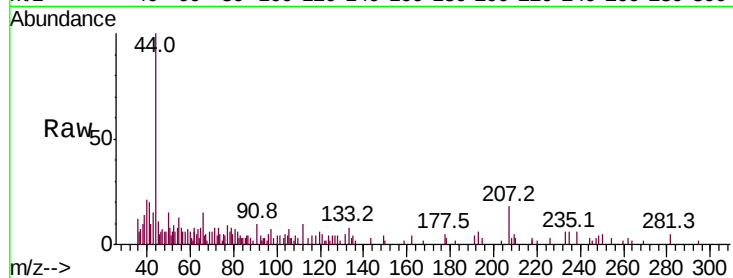
BP-VPB179-GW-338-340

Tot Ion: 64 Resp: 272

Ion Ratio Lower Upper

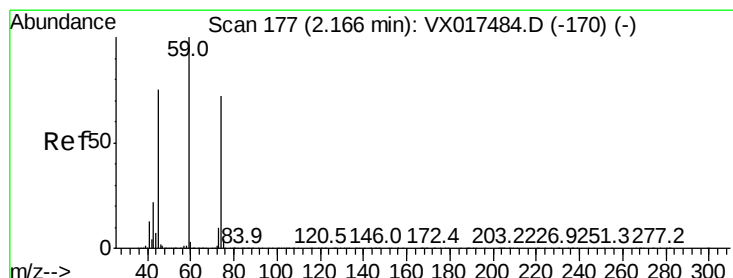
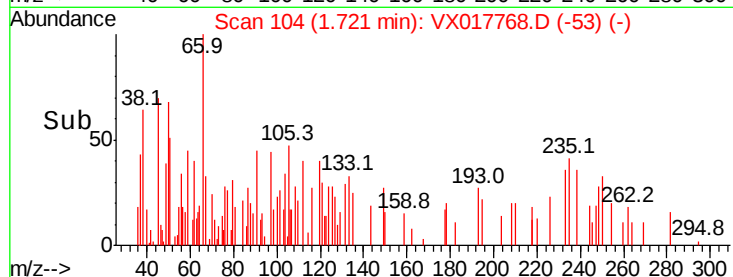
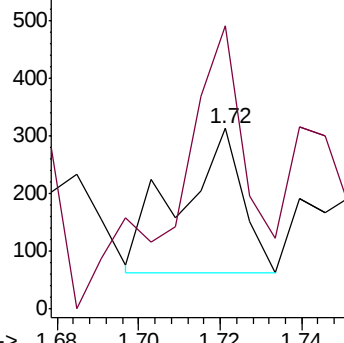
64 100

66 146.6 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 181

Delta R.T. 0.02 min

Lab File: VX017768.D

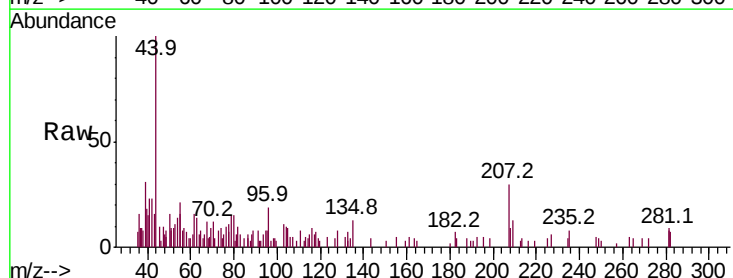
Acq: 04 Aug 2020 14:16

Tgt Ion: 74 Resp: 352

Ion Ratio Lower Upper

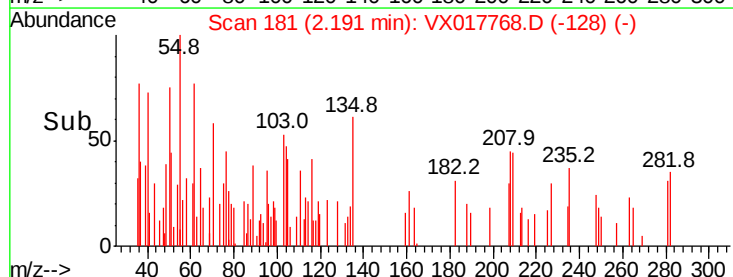
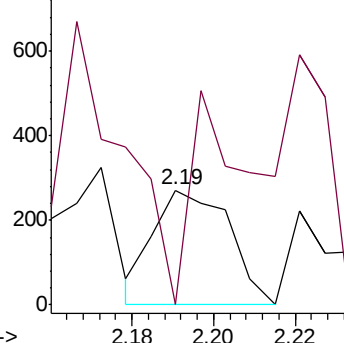
74 100

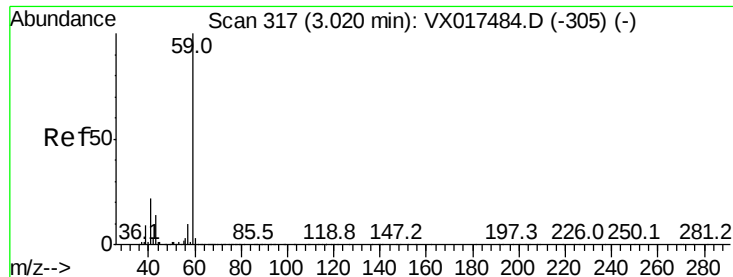
45 150.6 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

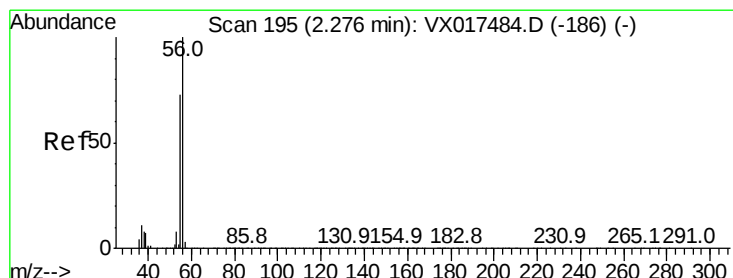
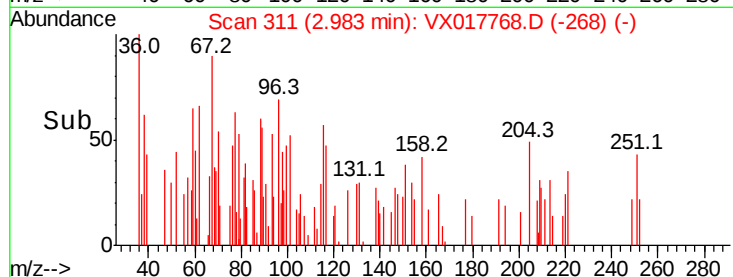
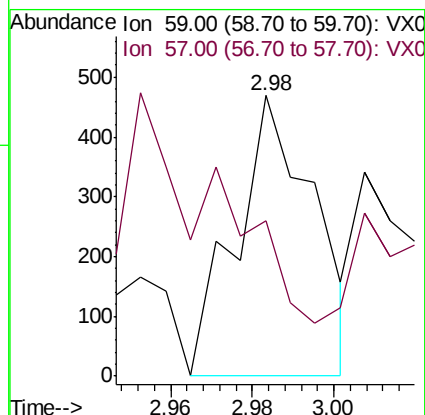
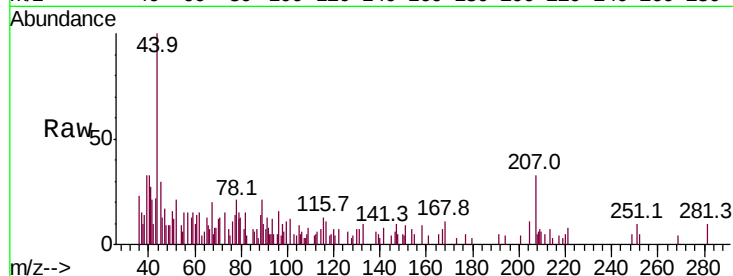




#11
Tert butyl alcohol
Concen: 0.381 ug/l
RT: 2.98 min Scan# 311
Delta R.T. -0.04 min
Lab File: VX017768.D
Acq: 04 Aug 2020 14:16

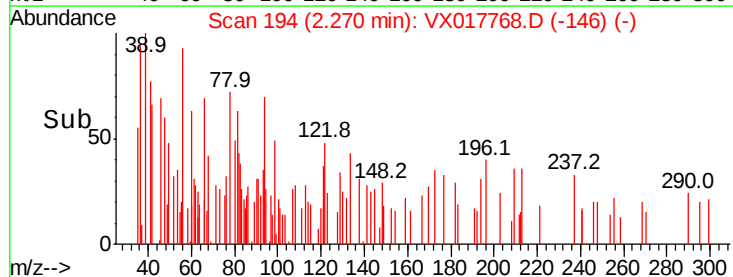
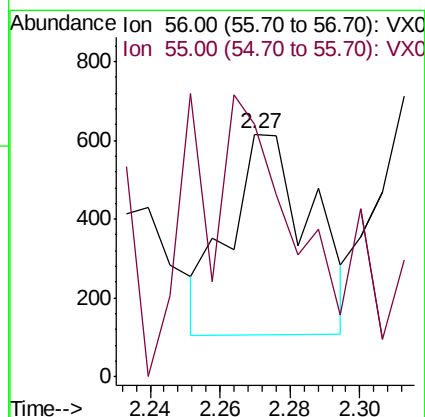
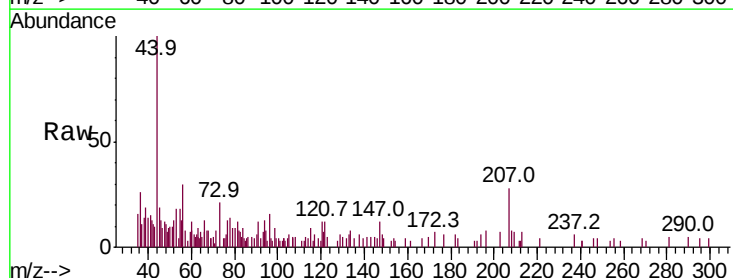
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB179-GW-338-340

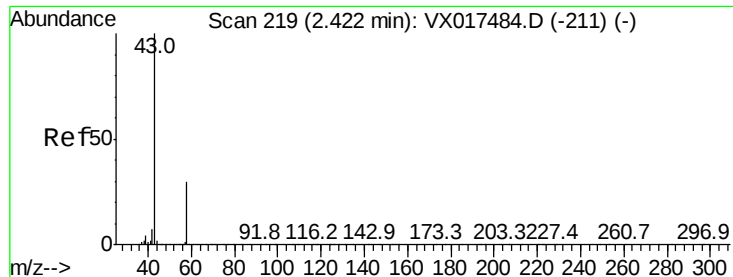
Tot Ion: 59 Resp: 623
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 4.795 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017768.D
Acq: 04 Aug 2020 14:16

Tgt Ion: 56 Resp: 822
Ion Ratio Lower Upper
56 100
55 0.0 57.4 86.2#

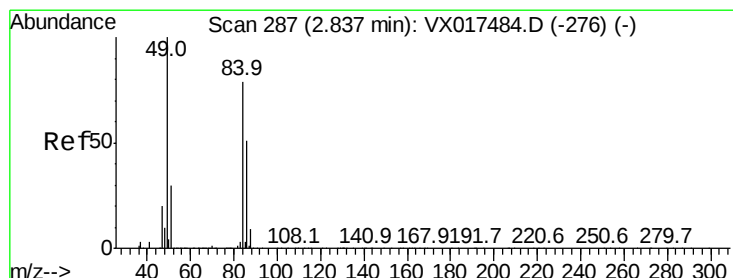
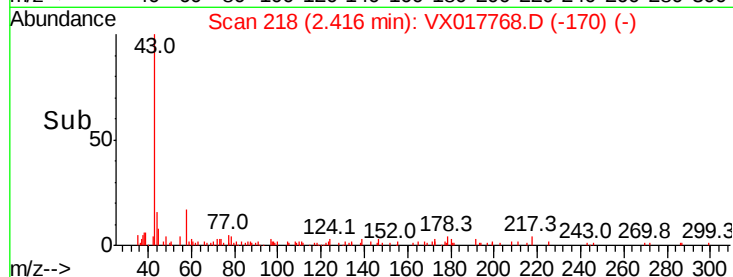
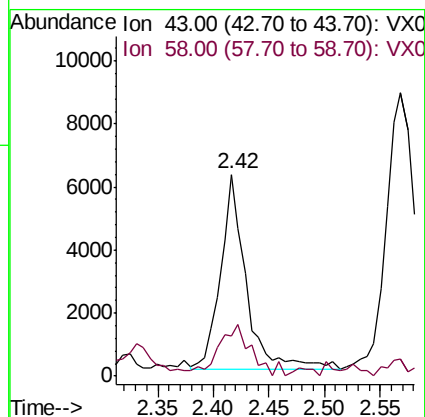
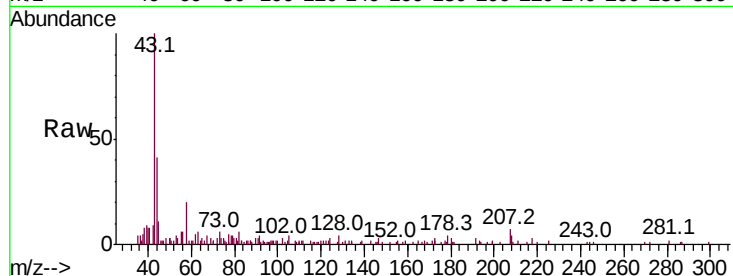




#16
Acetone
Concen: 2.925 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017768.D
Acq: 04 Aug 2020 14:16

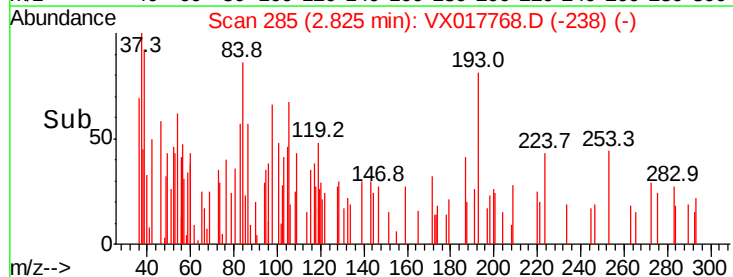
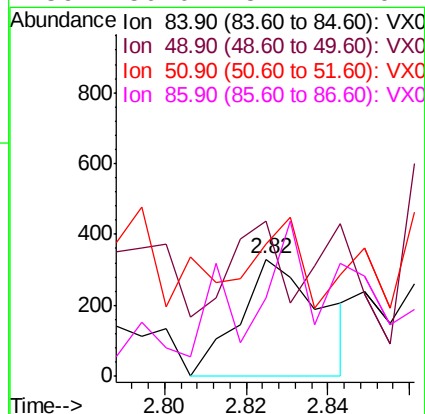
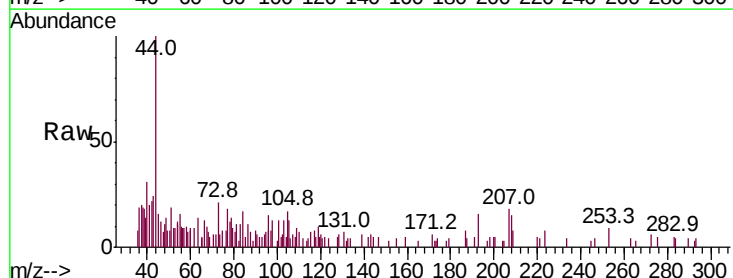
Instrument :
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BP-VPB179-GW-338-340

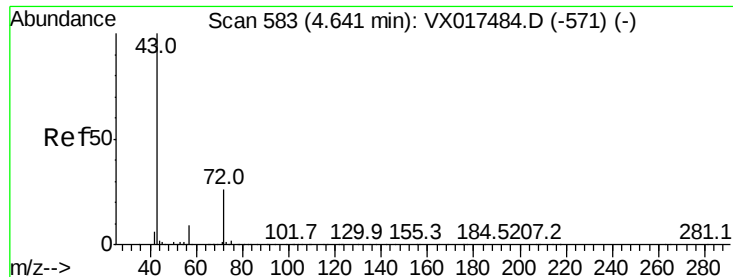
Tot Ion: 43 Resp: 9998
Ion Ratio Lower Upper
43 100
58 17.6 24.2 36.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX017768.D
Acq: 04 Aug 2020 14:16

Tgt Ion: 84 Resp: 458
Ion Ratio Lower Upper
84 100
49 82.7 100.3 150.5#
51 26.4 30.5 45.7#
86 50.0 51.1 76.7#





#25

2-Butanone

Concen: 0.757 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

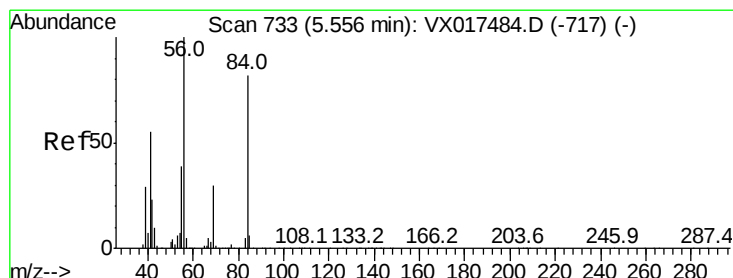
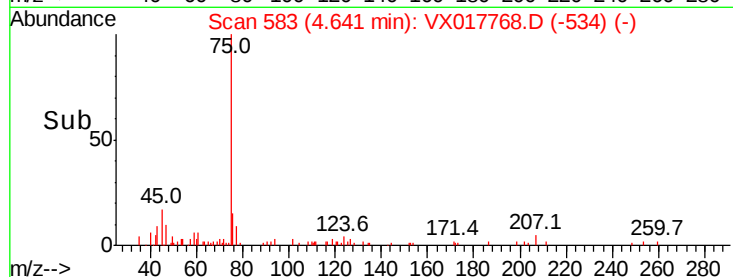
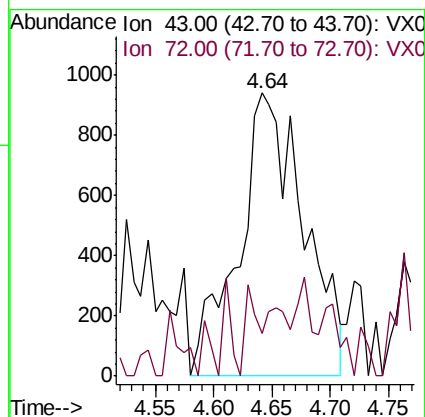
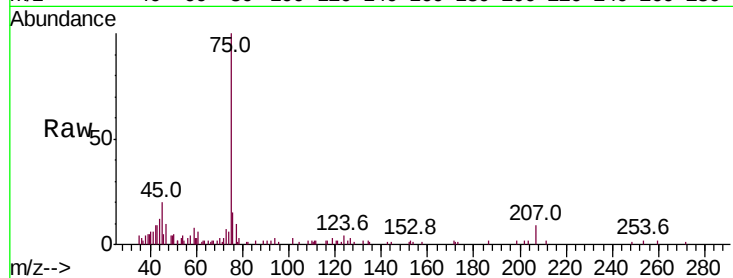
BP-VPB179-GW-338-340

Tot Ion: 43 Resp: 3676

Ion Ratio Lower Upper

43 100

72 5.1 19.0 28.4#



#31

Cyclohexane

Concen: 1.246 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.07 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

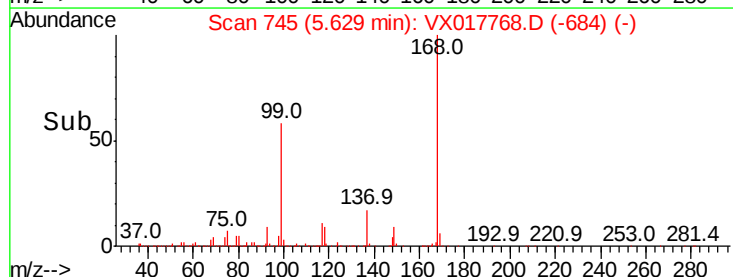
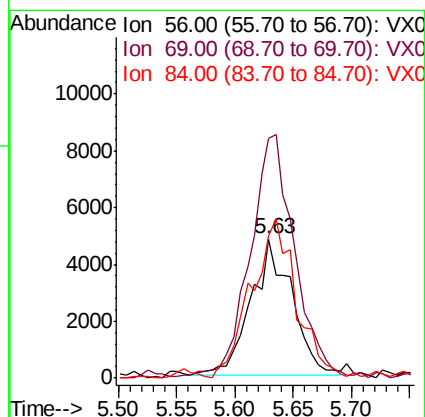
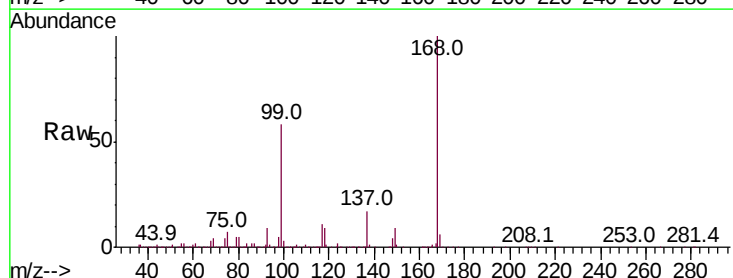
Tgt Ion: 56 Resp: 11930

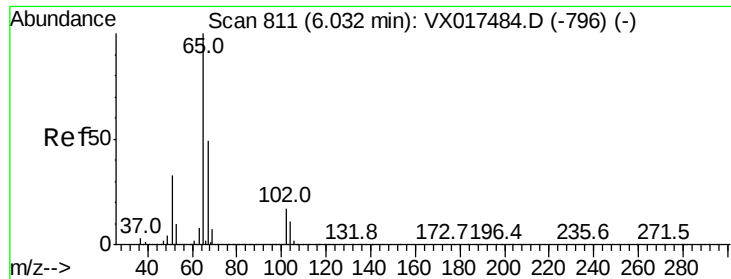
Ion Ratio Lower Upper

56 100

69 171.5 24.2 36.4#

84 101.1 69.0 103.6





#33

1,2-Dichloroethane-d4

Concen: 48.303 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

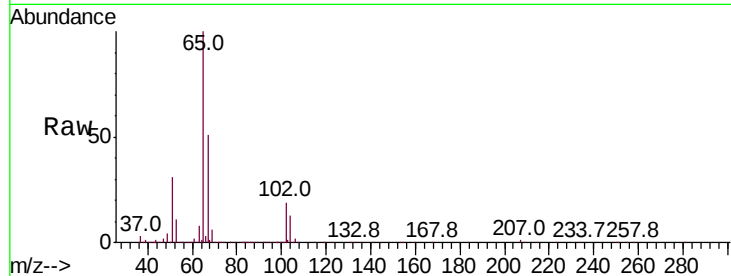
BP-VPB179-GW-338-340

Tot Ion: 65 Resp: 375095

Ion Ratio Lower Upper

65 100

67 50.4 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

150000

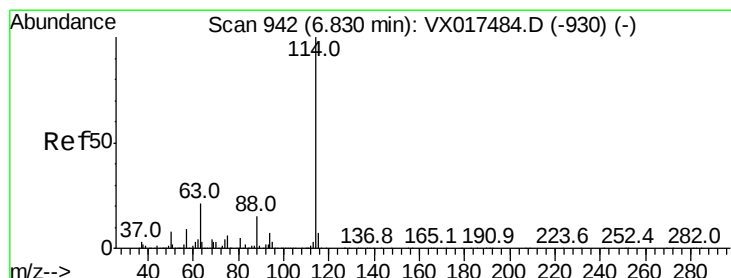
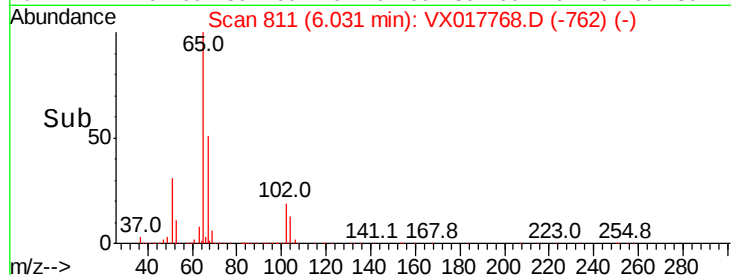
100000

50000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

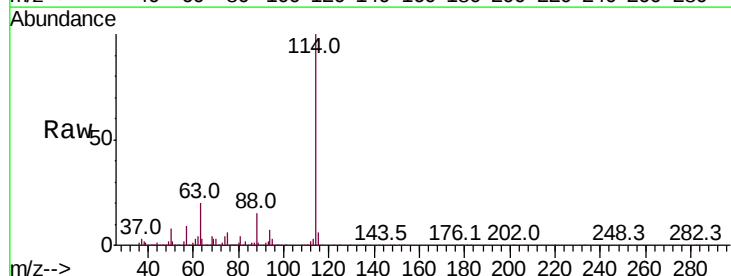
Tgt Ion:114 Resp: 877877

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.6

88 15.3 0.0 33.4



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

500000

400000

300000

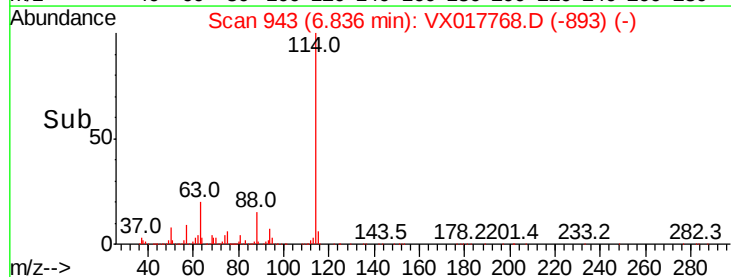
200000

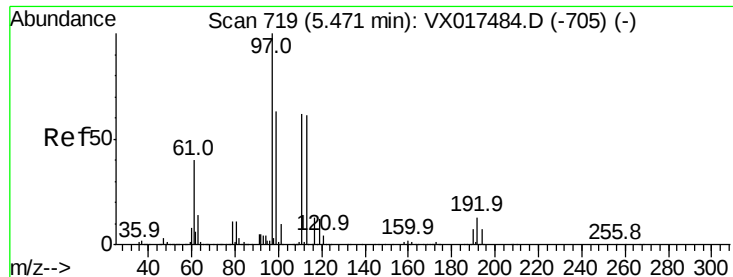
100000

0

6.70 6.80 6.90

Time-->

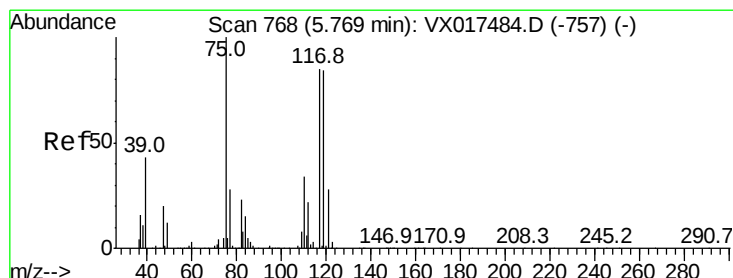
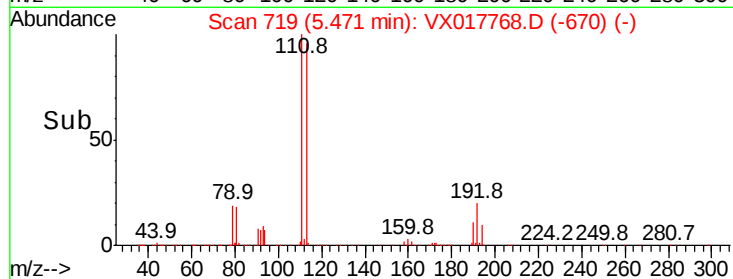
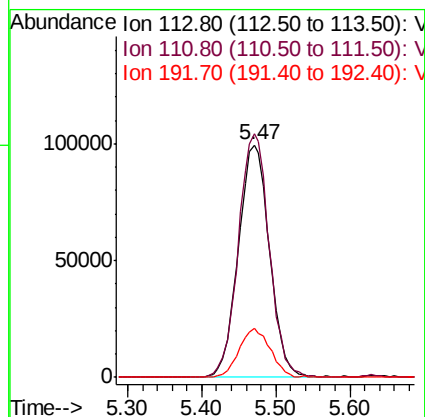
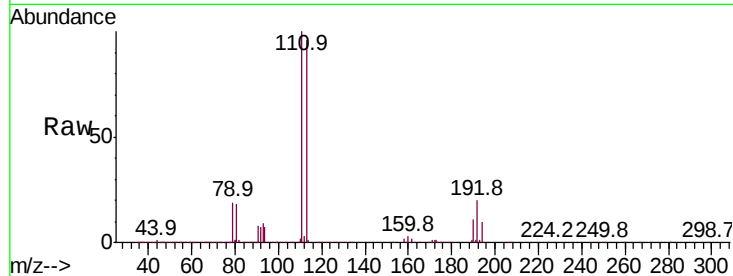




#35
 Dibromofluoromethane
 Concen: 49.947 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017768.D
 Acq: 04 Aug 2020 14:16

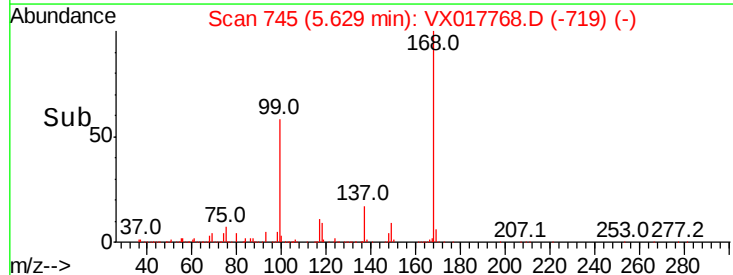
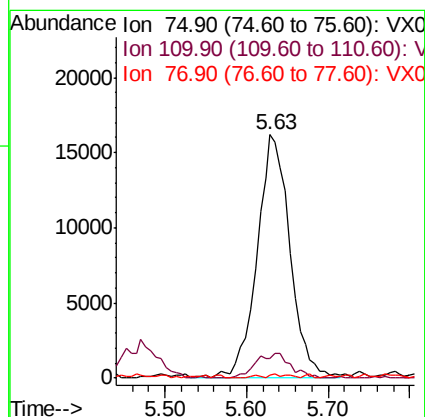
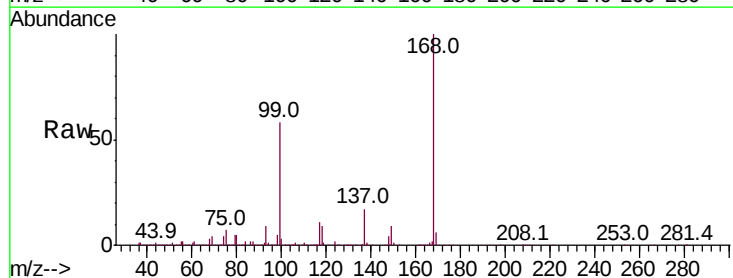
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB179-GW-338-340

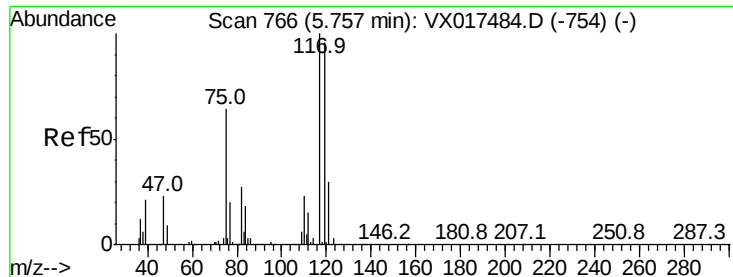
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	80.7	121.1
192	21.0	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 5.425 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017768.D
 Acq: 04 Aug 2020 14:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.1	54.3#
77	0.8	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.009 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-338-340

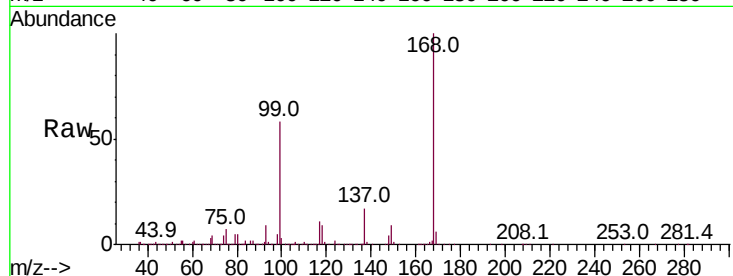
Tot Ion:117 Resp: 61434

Ion Ratio Lower Upper

117 100

119 6.4 75.4 113.0#

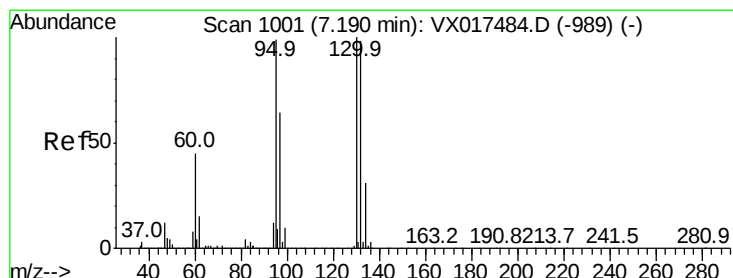
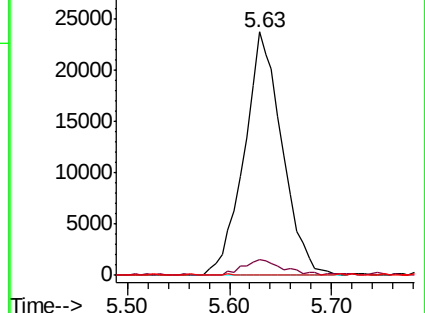
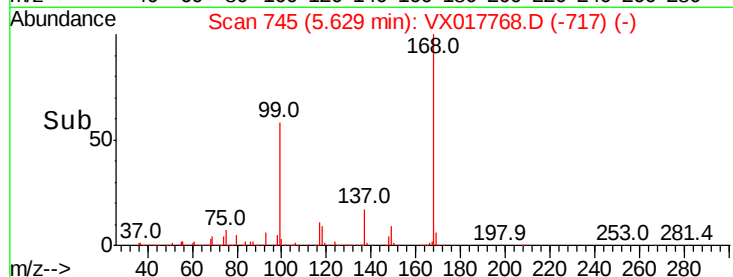
121 0.0 24.3 36.5#



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: 1.503 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017768.D

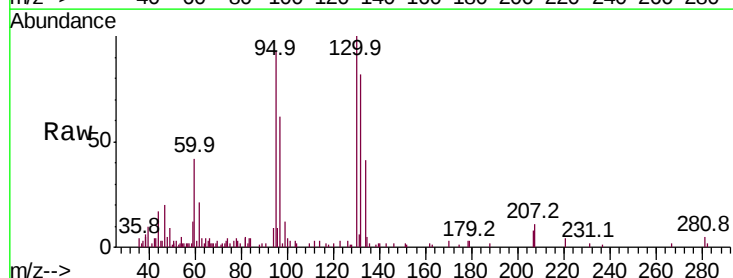
Acq: 04 Aug 2020 14:16

Tgt Ion:130 Resp: 10602

Ion Ratio Lower Upper

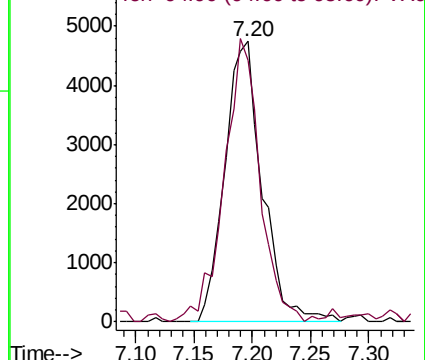
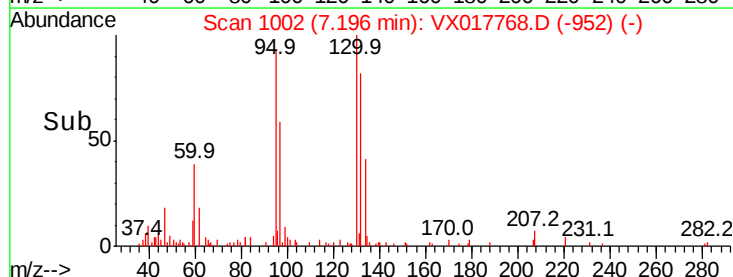
130 100

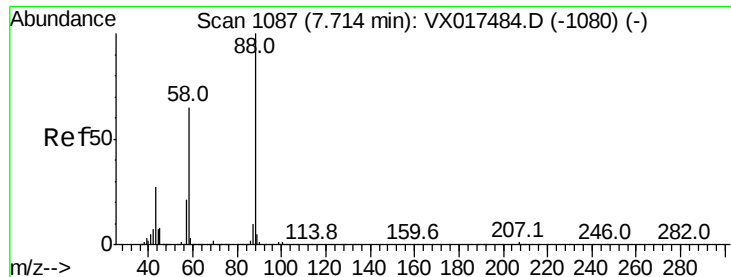
95 91.5 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 1.447 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-338-340

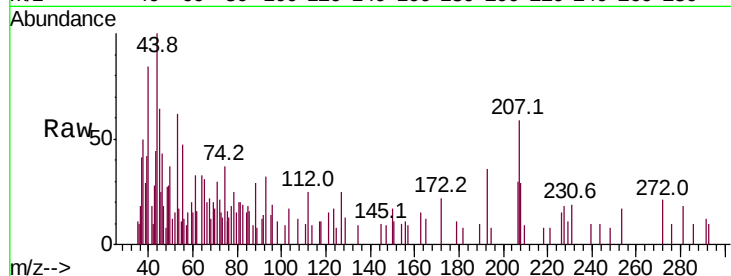
Tot Ion: 88 Resp: 209

Ion Ratio Lower Upper

88 100

43 66.5 27.8 41.6#

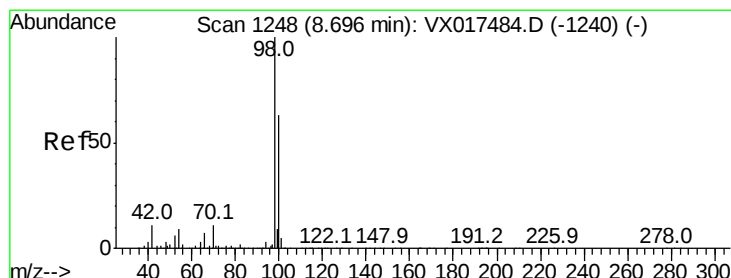
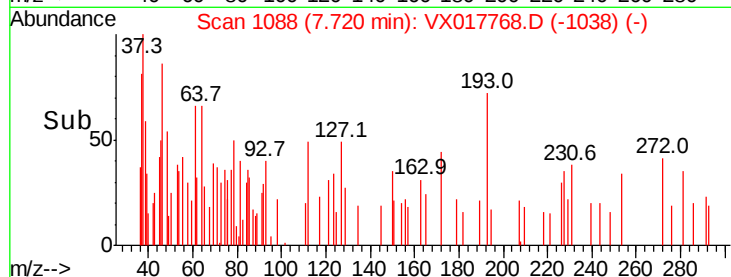
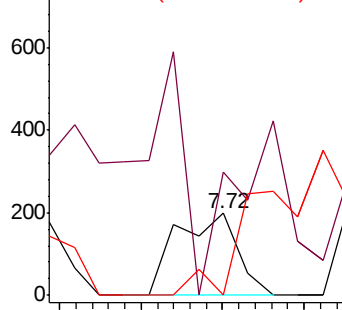
58 0.0 58.3 87.5#



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: 48.350 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017768.D

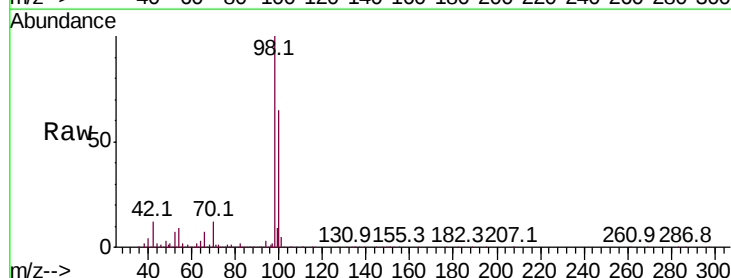
Acq: 04 Aug 2020 14:16

Tgt Ion: 98 Resp: 1024075

Ion Ratio Lower Upper

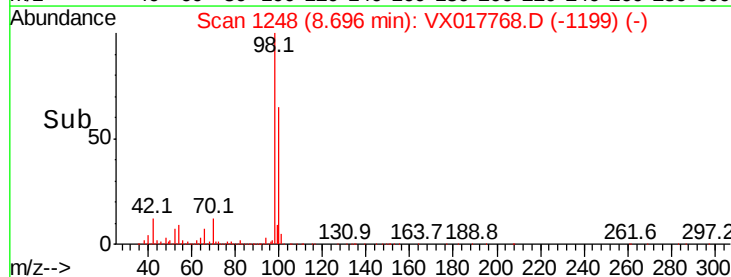
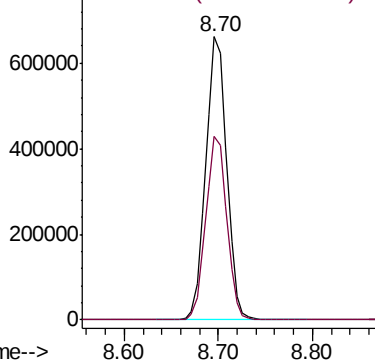
98 100

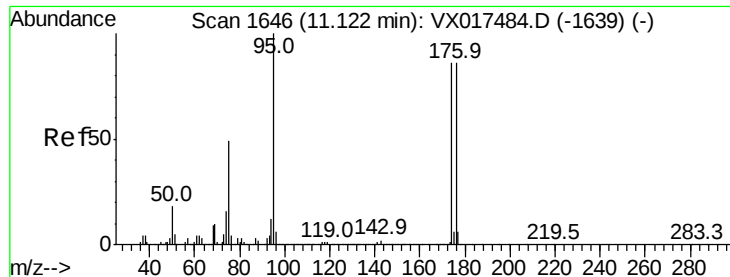
100 65.2 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 47.590 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-338-340

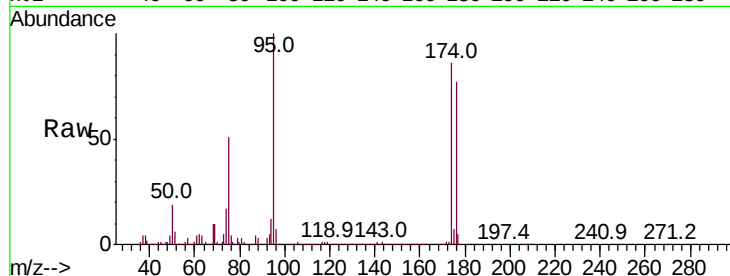
Tot Ion: 95 Resp: 403398

Ion Ratio Lower Upper

95 100

174 85.1 0.0 169.0

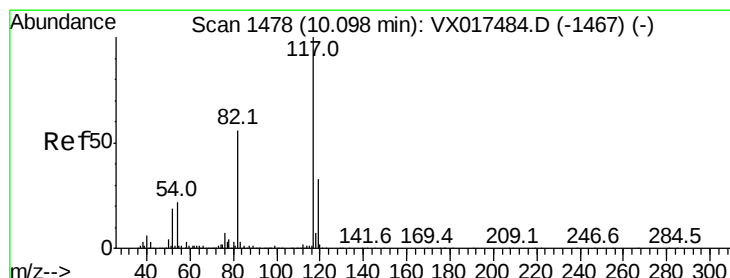
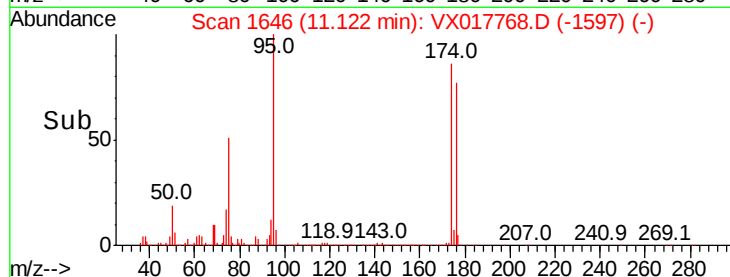
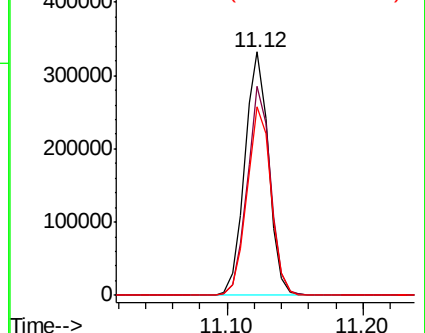
176 78.6 0.0 161.0



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: VX017768.D

Acq: 04 Aug 2020 14:16

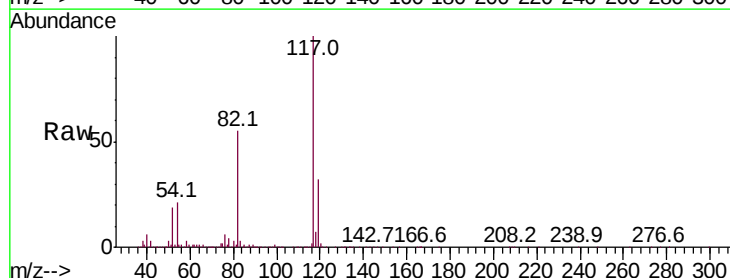
Tgt Ion: 117 Resp: 824536

Ion Ratio Lower Upper

117 100

82 55.1 44.0 66.0

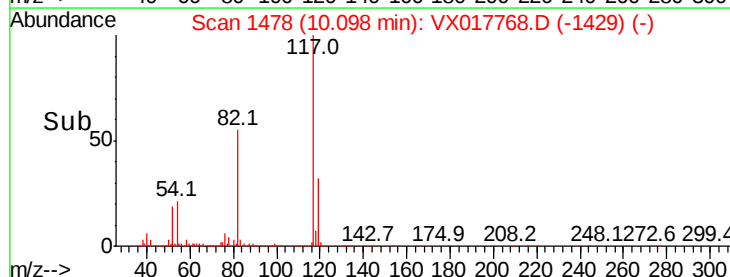
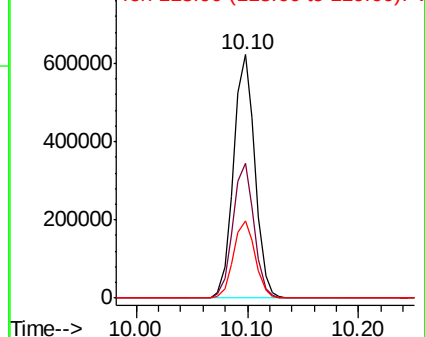
119 31.8 25.4 38.0

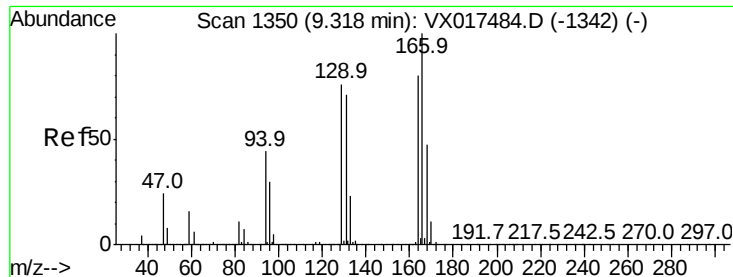


Abundance Ion 116.90 (116.60 to 117.60): VX0

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0





#64

Tetrachloroethene

Concen: 0.262 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-338-340

Tot Ion:164 Resp: 1936

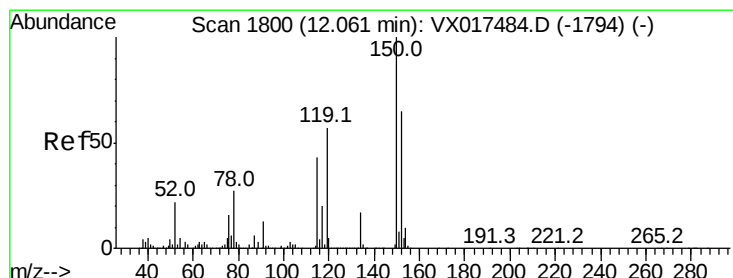
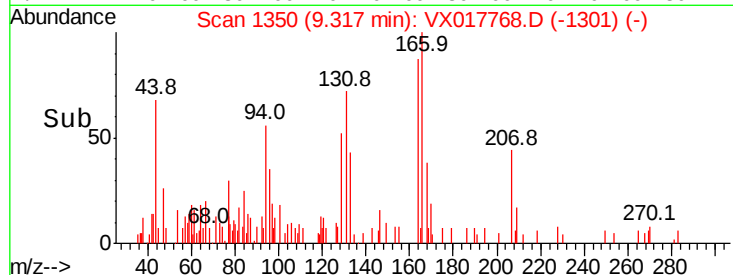
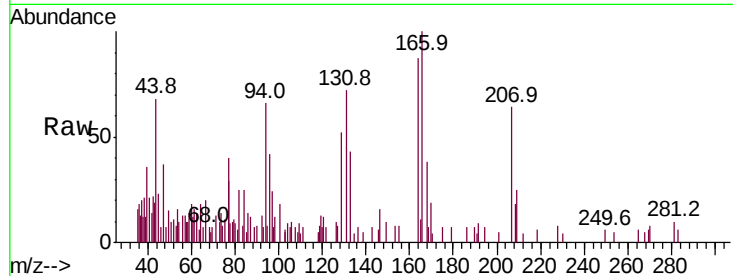
Ion Ratio Lower Upper

164 100

166 115.2 100.6 150.8

129 60.0 75.0 112.6#

131 83.4 75.2 112.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

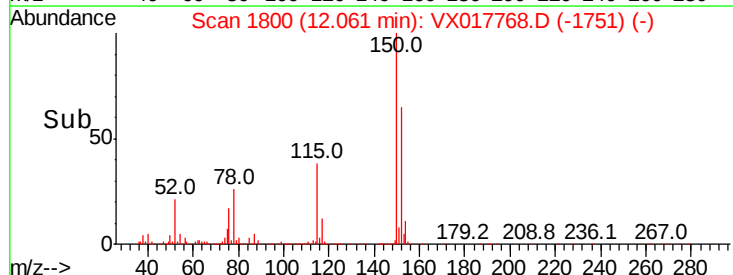
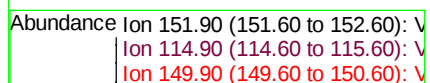
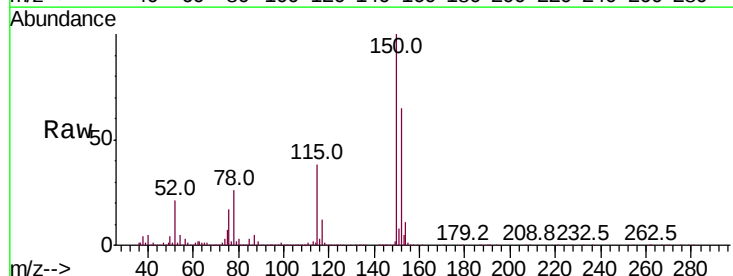
Tgt Ion:152 Resp: 421702

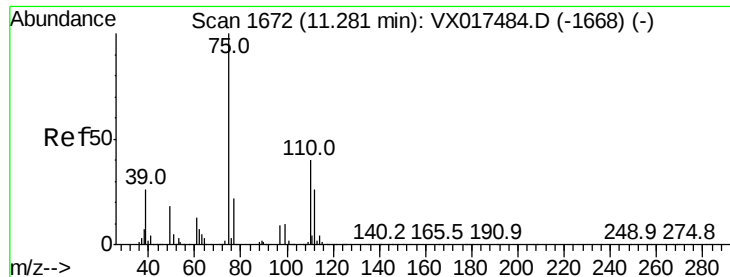
Ion Ratio Lower Upper

152 100

115 58.6 65.5 196.6#

150 155.3 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 23.794 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

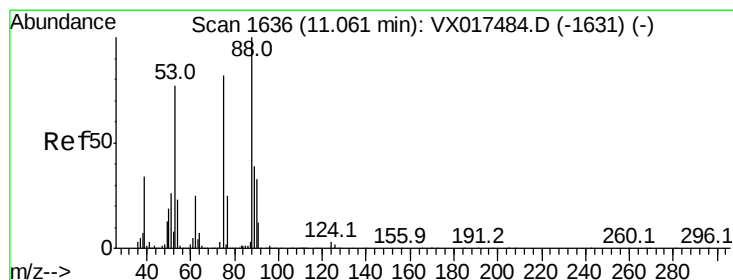
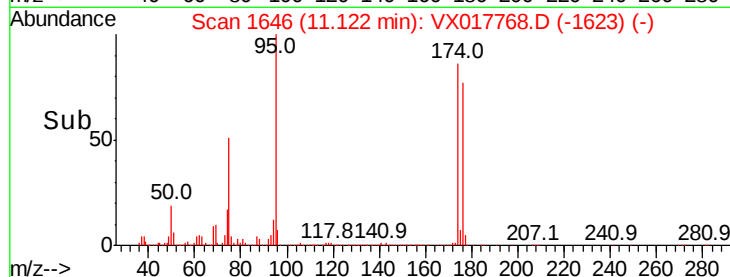
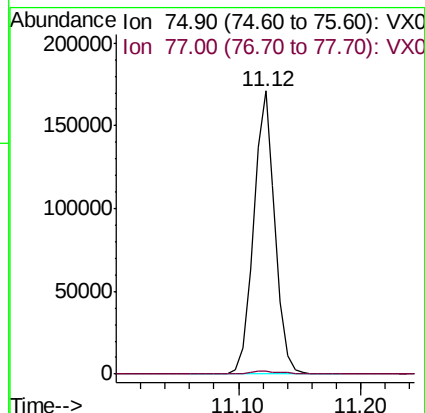
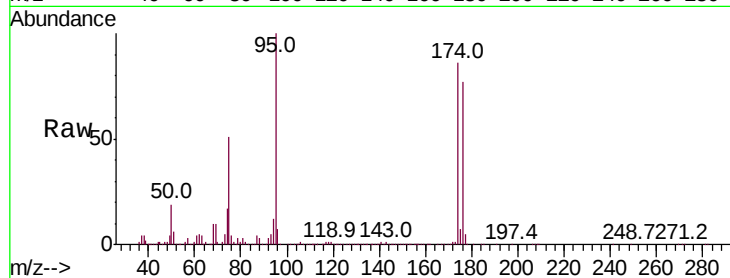
BP-VPB179-GW-338-340

Tot Ion: 75 Resp: 206400

Ion Ratio Lower Upper

75 100

77 1.5 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.955 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

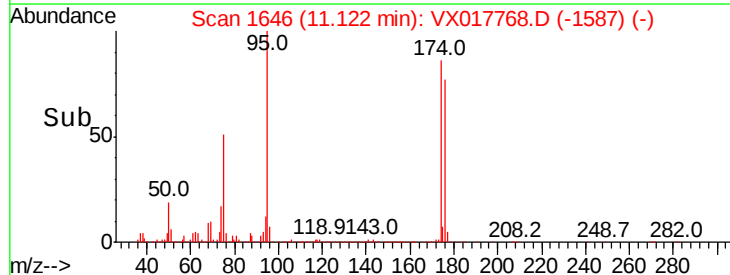
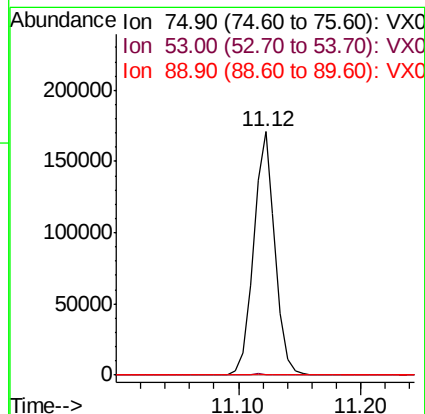
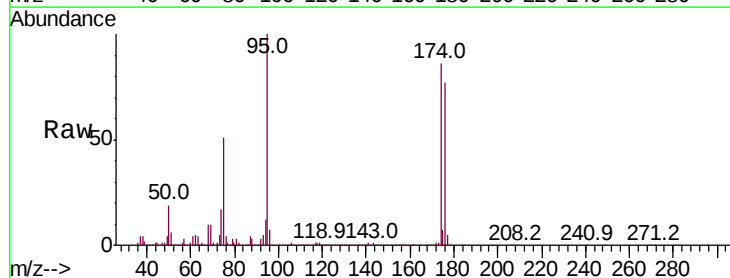
Tgt Ion: 75 Resp: 206400

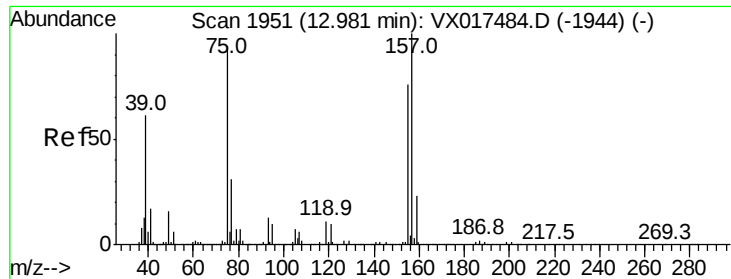
Ion Ratio Lower Upper

75 100

53 0.4 75.9 113.9#

89 0.2 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.646 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017768.D

Acq: 04 Aug 2020 14:16

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-338-340

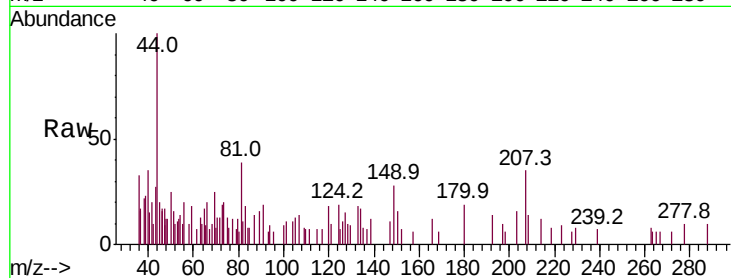
Tot Ion: 75 Resp: 188

Ion Ratio Lower Upper

75 100

155 31.4 42.3 126.8#

157 70.2 54.3 162.9



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

