

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051719\
 Data File : VX009673.D
 Acq On : 17 May 2019 19:42
 Operator : JC/SP
 Sample : K2891-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-GW-458-460

Quant Time: May 18 04:52:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	159763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	251685	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	221318	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	91656	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	107219	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
35) Dibromofluoromethane	5.50	113	77052	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
50) Toluene-d8	8.71	98	318022	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	11.13	95	103505	44.59	ug/l	0.00
Spiked Amount			Recovery	=	89.18%	

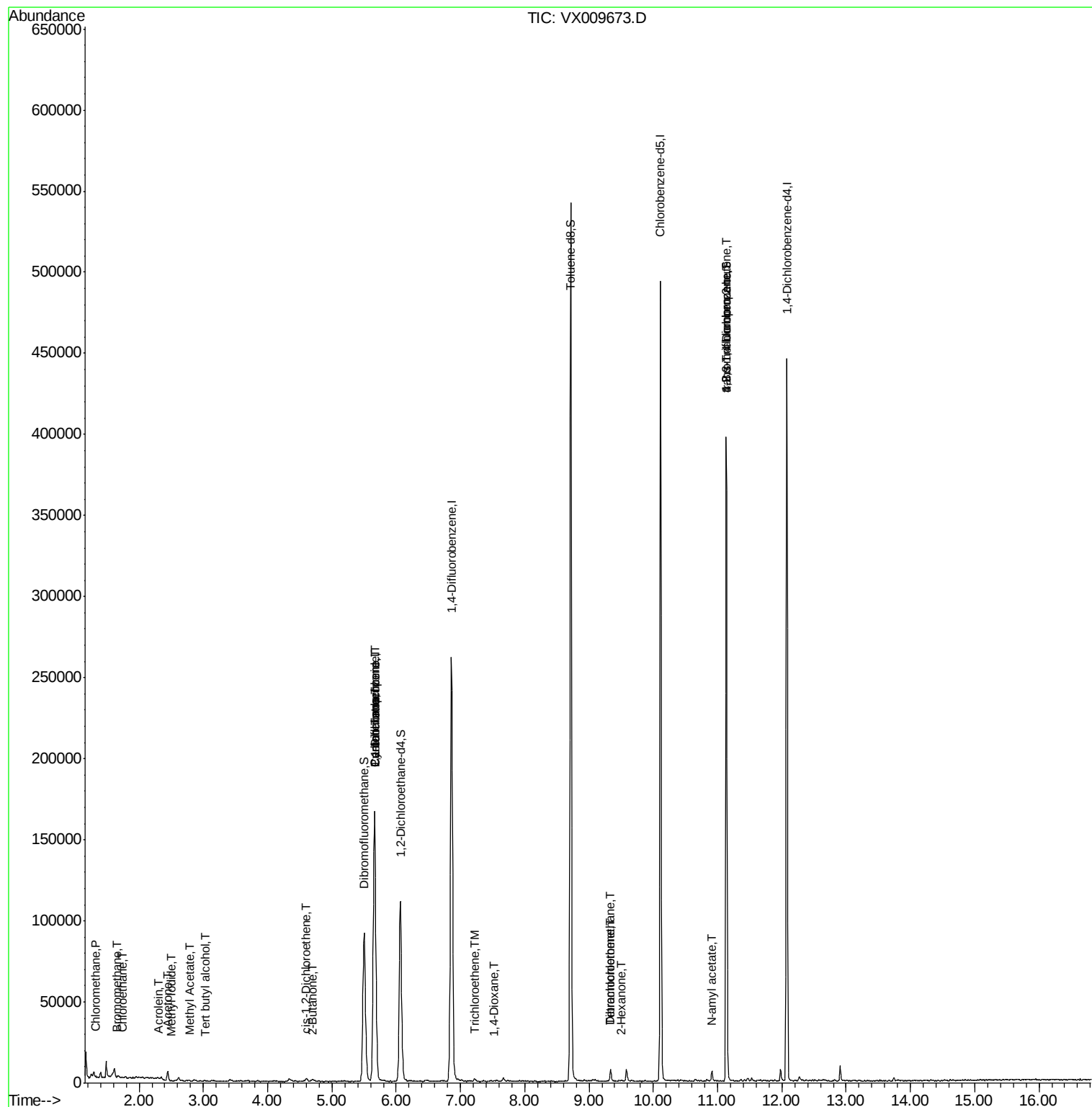
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	523	0.260	ug/l #	83
5) Bromomethane	1.65	94	275	0.234	ug/l #	78
6) Chloroethane	1.75	64	296	0.235	ug/l #	43
10) Methyl Iodide	2.51	142	99	4.646	ug/l #	90
11) Tert butyl alcohol	3.03	59	514	1.018	ug/l #	83
13) Acrolein	2.30	56	183	0.400	ug/l	96
16) Acetone	2.45	43	6414	5.477	ug/l	97
18) Methyl Acetate	2.78	43	786	0.282	ug/l #	78
25) 2-Butanone	4.70	43	1990	1.094	ug/l	91
27) cis-1,2-Dichloroethene	4.59	96	880	0.453	ug/l	82
28) Bromochloromethane	5.00	49	90	Below Cal	#	20
31) Cyclohexane	5.67	56	3756	1.165	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	12191	5.212	ug/l #	51
38) Carbon Tetrachloride	5.67	117	15074	7.093	ug/l #	16
44) Trichloroethene	7.23	130	520	0.297	ug/l	34
49) 1,4-Dioxane	7.52	88	48	0.915	ug/l #	20
59) 2-Hexanone	9.50	43	612	0.229	ug/l	85
60) Dibromochloromethane	9.34	129	1371	0.782	ug/l #	11
64) Tetrachloroethene	9.34	164	1307	0.861	ug/l	90
74) N-amyl acetate	10.91	43	1033	0.266	ug/l #	9
76) 1,2,3-Trichloropropane	11.13	75	52687	24.781	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	52687	63.406	ug/l #	10

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

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BP-VPB202-GW-458-460

Quant Time: May 18 04:52:41 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

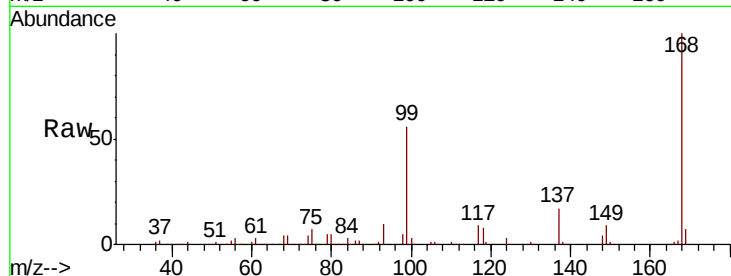
BP-VPB202-GW-458-460

Tot Ion:168 Resp: 159763

Ion Ratio Lower Upper

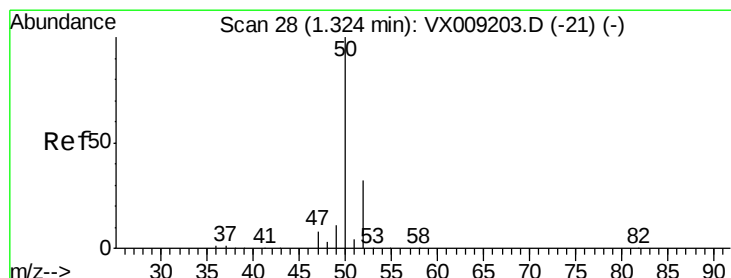
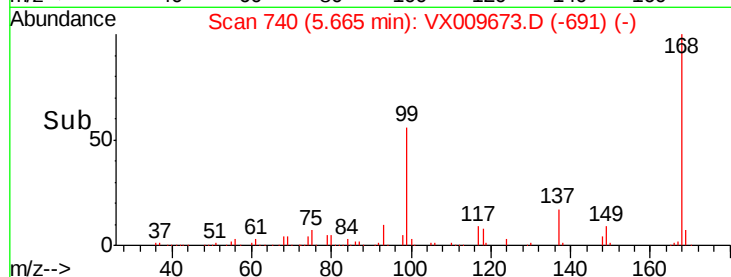
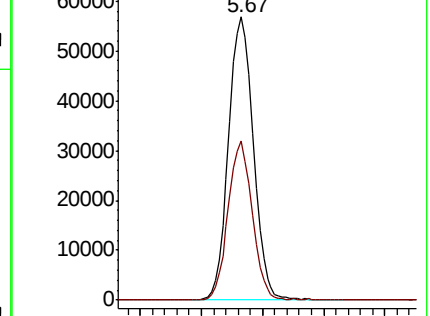
168 100

99 56.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.260 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009673.D

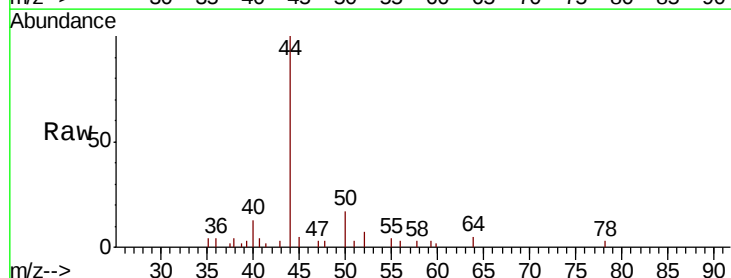
Acq: 17 May 2019 19:42

Tgt Ion: 50 Resp: 523

Ion Ratio Lower Upper

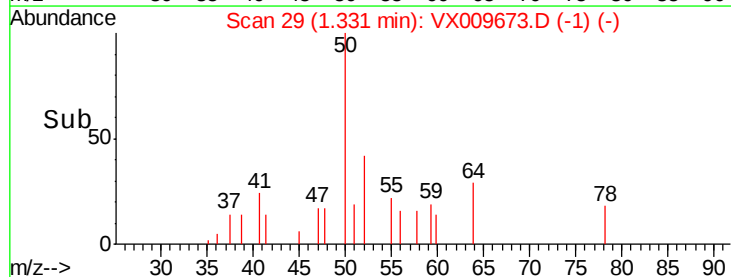
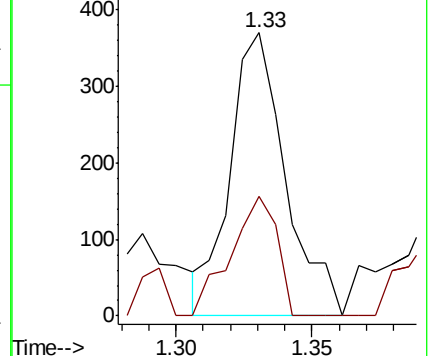
50 100

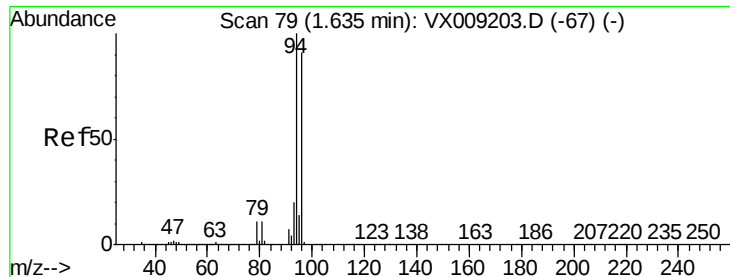
52 42.2 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.234 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

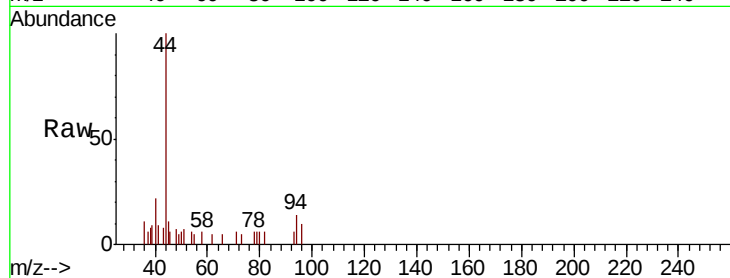
BP-VPB202-GW-458-460

Tot Ion: 94 Resp: 275

Ion Ratio Lower Upper

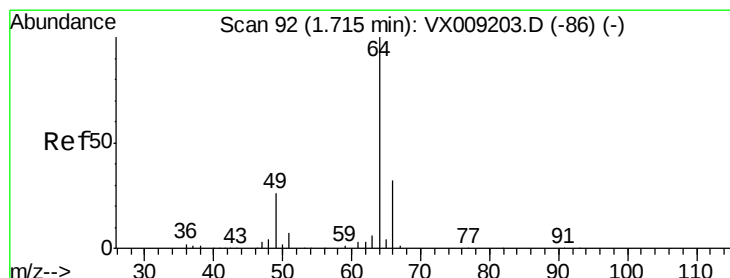
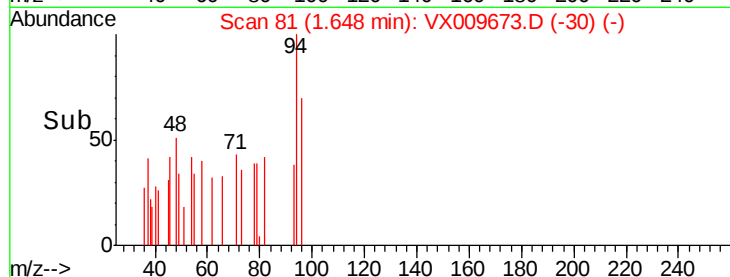
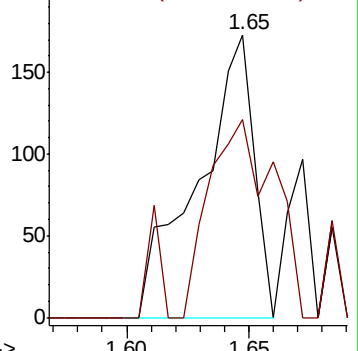
94 100

96 69.9 73.0 109.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.235 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX009673.D

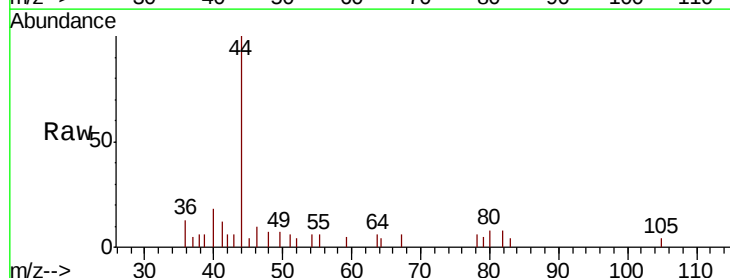
Acq: 17 May 2019 19:42

Tgt Ion: 64 Resp: 296

Ion Ratio Lower Upper

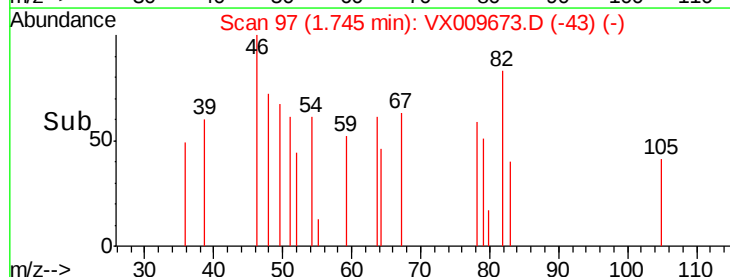
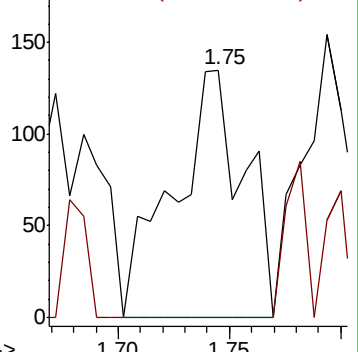
64 100

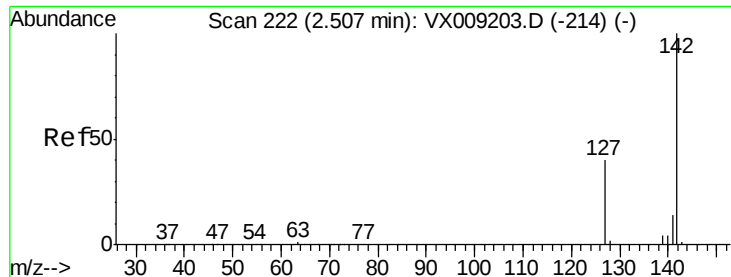
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

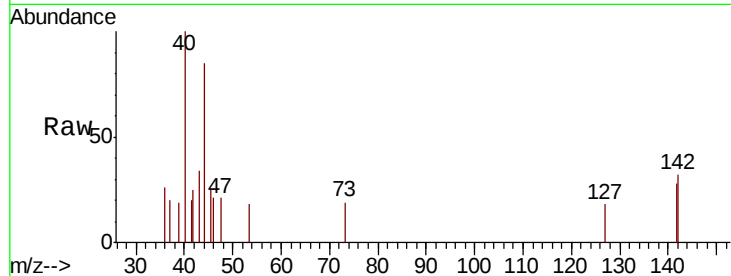




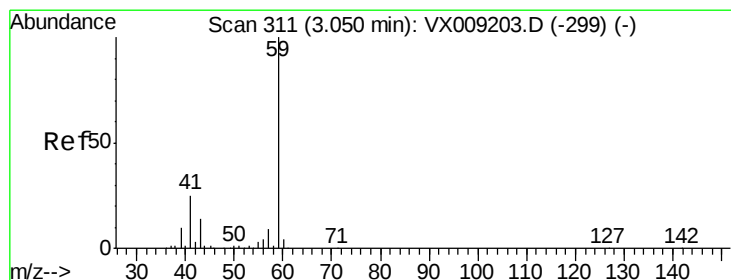
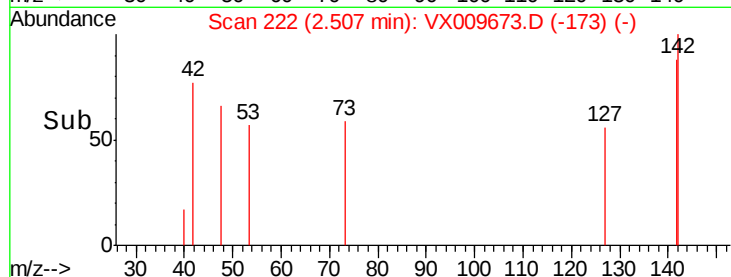
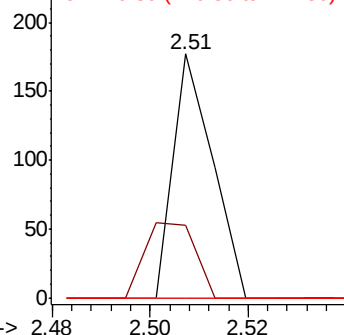
#10
Methvl Iodide
Concen: 4.646 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX009673.D
Acq: 17 May 2019 19:42

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-458-460

Tot Ion:142 Resp: 99
Ion Ratio Lower Upper
142 100
127 40.4 32.7 49.1
141 0.0 11.5 17.3#

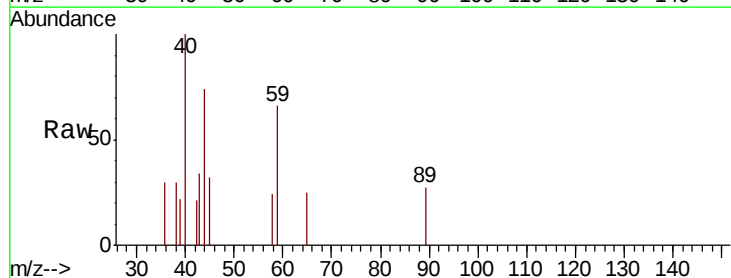


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

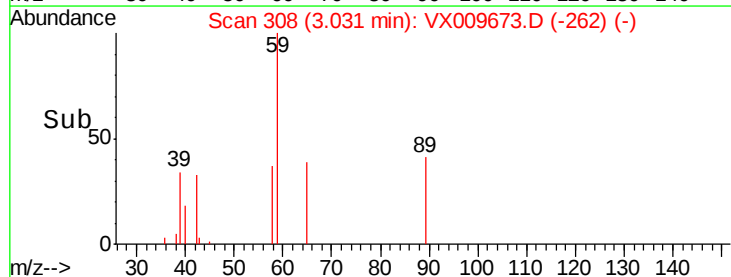
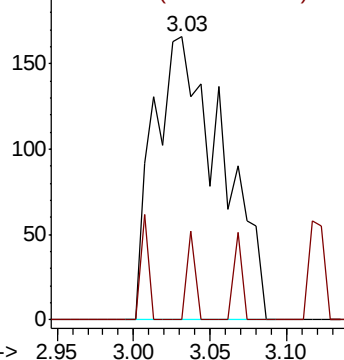


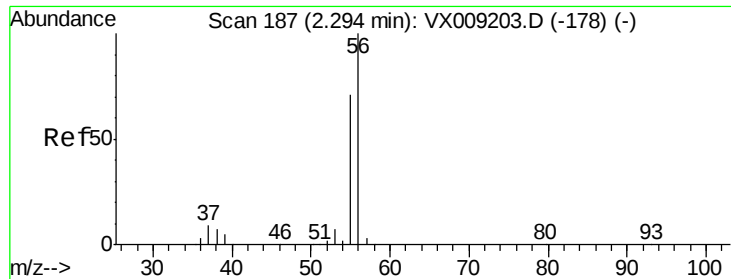
#11
Tert butyl alcohol
Concen: 1.018 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX009673.D
Acq: 17 May 2019 19:42

Tgt Ion: 59 Resp: 514
Ion Ratio Lower Upper
59 100
57 3.7 8.2 12.2#



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





#13

Acrolein

Concen: 0.400 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

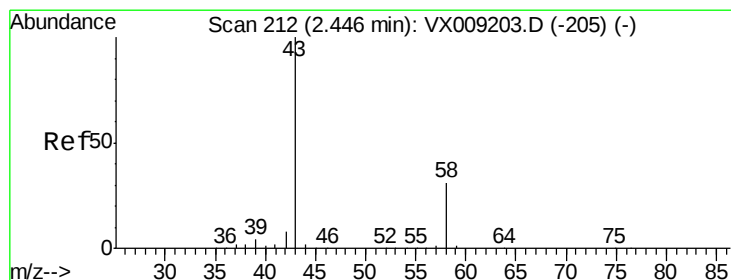
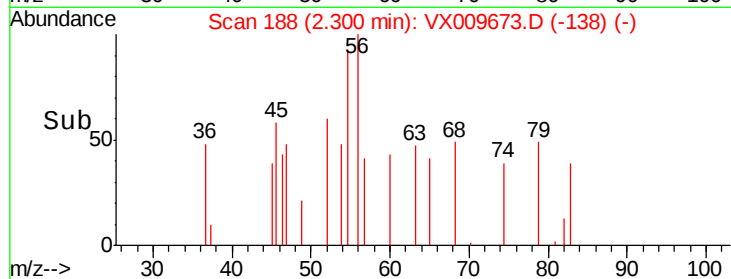
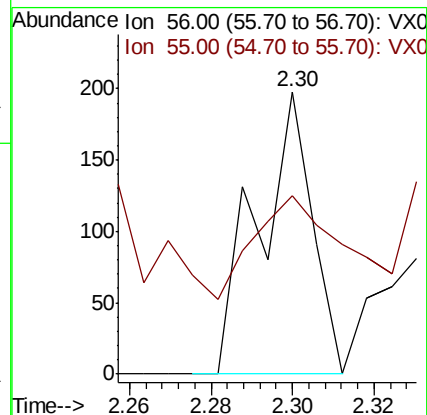
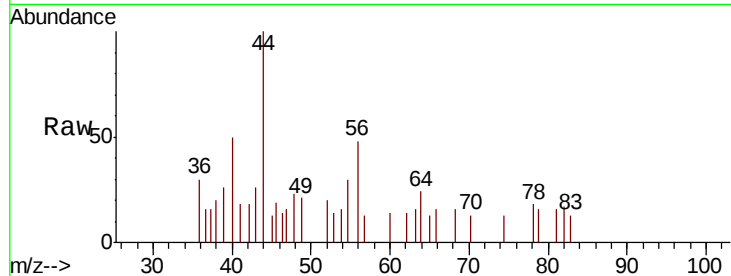
BP-VPB202-GW-458-460

Tot Ion: 56 Resp: 183

Ion Ratio Lower Upper

56 100

55 67.2 56.6 85.0



#16

Acetone

Concen: 5.477 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009673.D

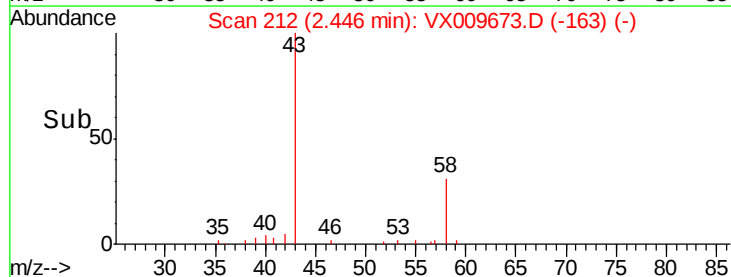
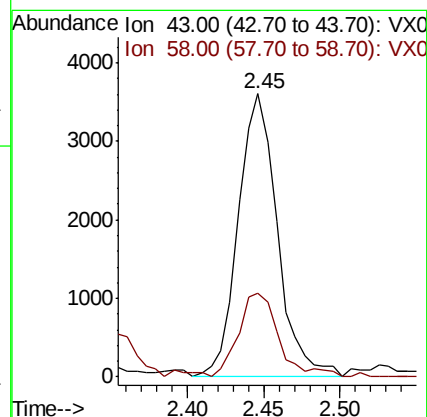
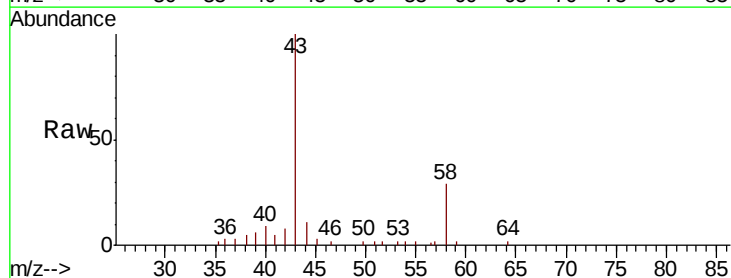
Acq: 17 May 2019 19:42

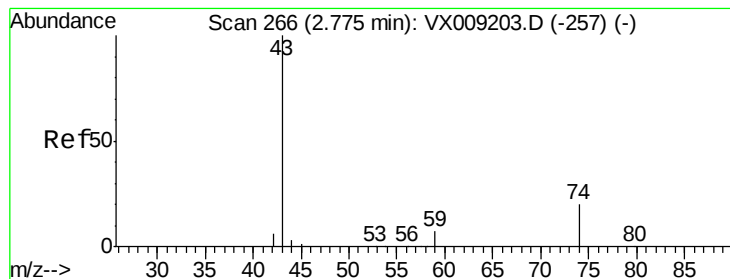
Tgt Ion: 43 Resp: 6414

Ion Ratio Lower Upper

43 100

58 29.5 24.9 37.3





#18

Methvl Acetate

Concen: 0.282 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

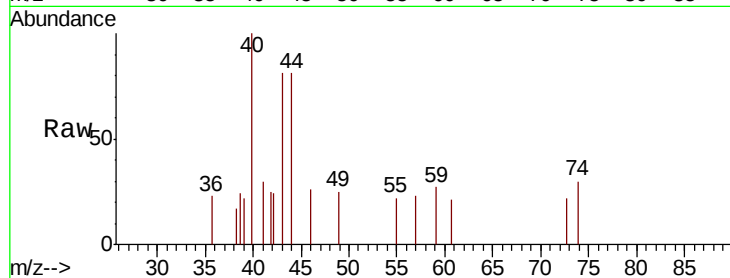
BP-VPB202-GW-458-460

Tot Ion: 43 Resp: 786

Ion Ratio Lower Upper

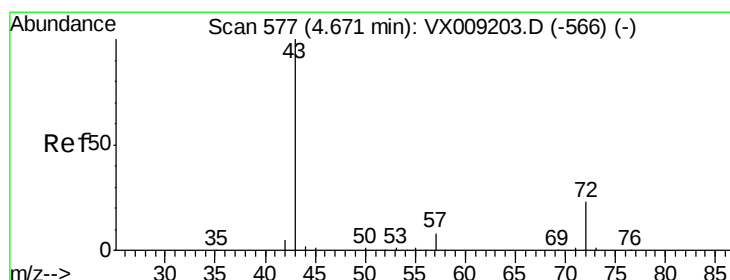
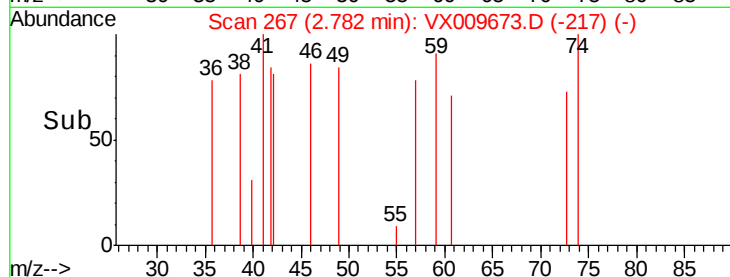
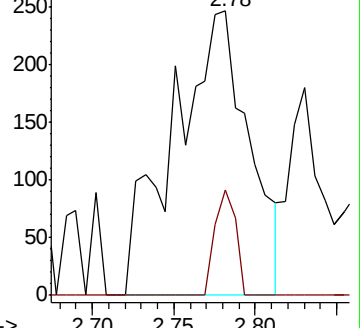
43 100

74 10.2 16.2 24.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#25

2-Butanone

Concen: 1.094 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX009673.D

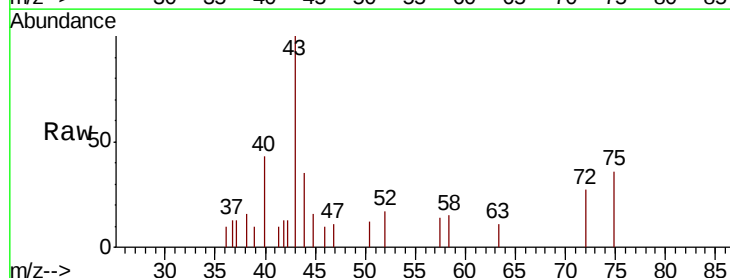
Acq: 17 May 2019 19:42

Tgt Ion: 43 Resp: 1990

Ion Ratio Lower Upper

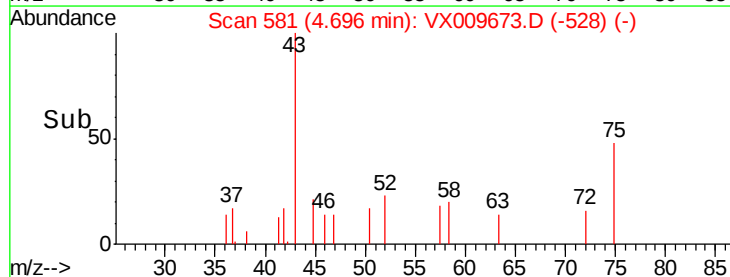
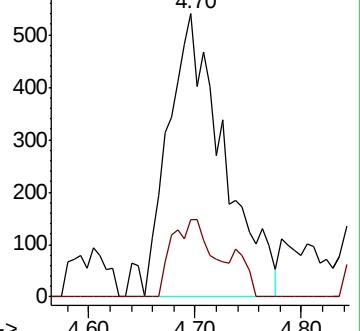
43 100

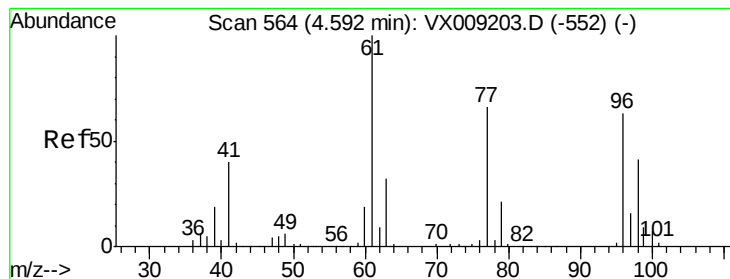
72 27.2 18.2 27.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



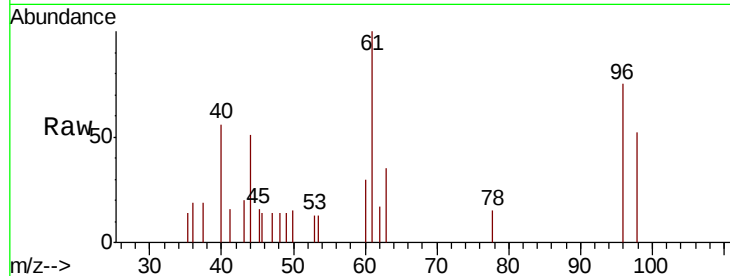


#27

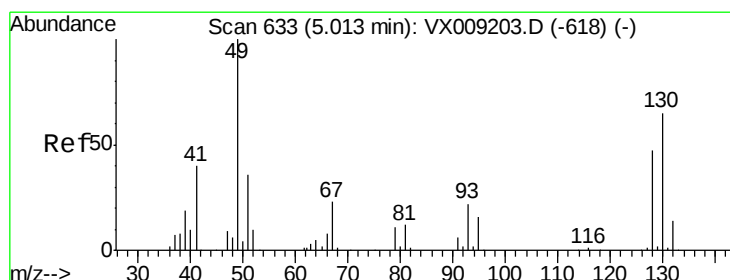
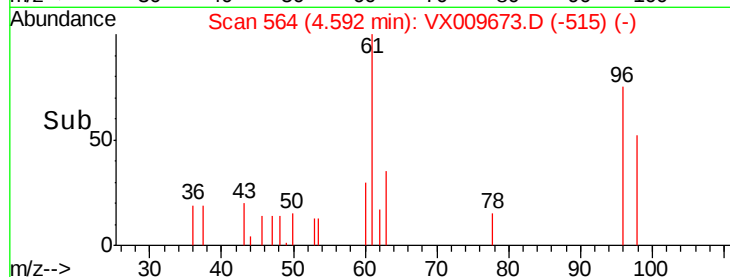
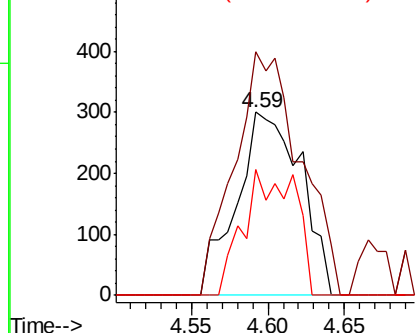
cis-1,2-Dichloroethene
 Concen: 0.453 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. 0.00 min
 Lab File: VX009673.D
 Acq: 17 May 2019 19:42

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-GW-458-460

Tot Ion: 96 Resp: 880
 Ion Ratio Lower Upper
 96 100
 61 136.1 0.0 324.0
 98 54.2 0.0 130.4



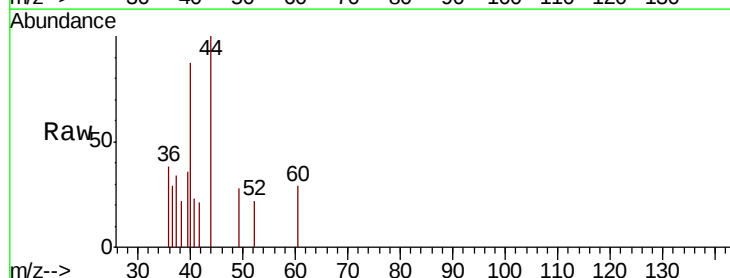
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



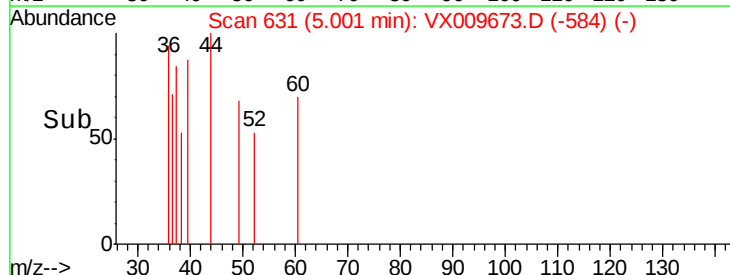
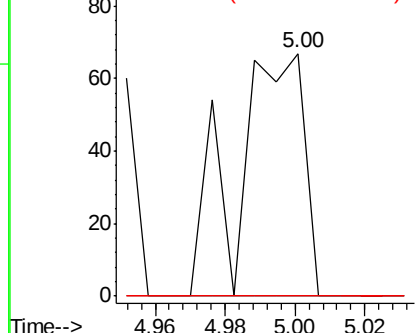
#28

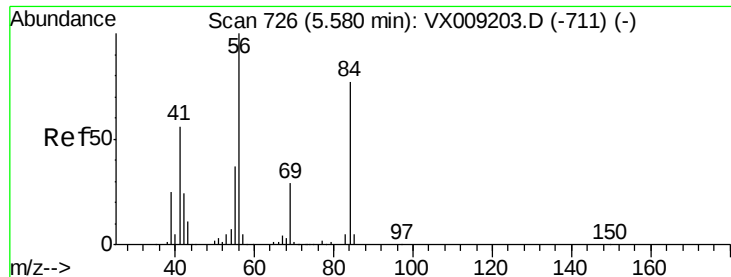
Bromochloromethane
 Concen: Below Cal
 RT: 5.00 min Scan# 631
 Delta R.T. -0.01 min
 Lab File: VX009673.D
 Acq: 17 May 2019 19:42

Tgt Ion: 49 Resp: 90
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.8
 130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V

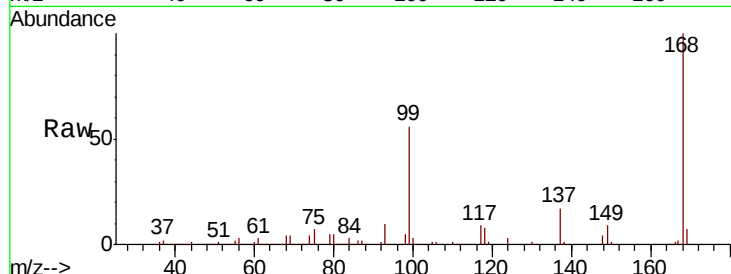




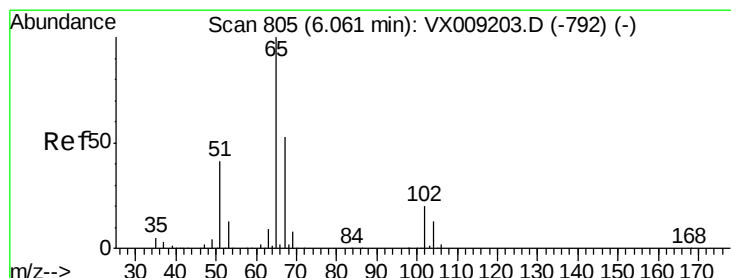
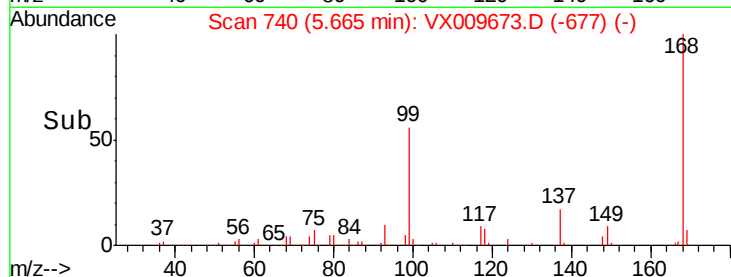
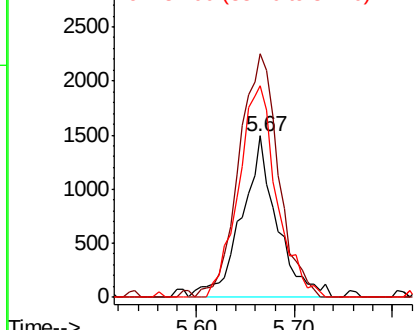
#31
Cyclohexane
Concen: 1.165 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX009673.D
Acq: 17 May 2019 19:42

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-458-460

Tot Ion: 56 Resp: 3756
Ion Ratio Lower Upper
56 100
69 150.9 23.4 35.0#
84 131.0 61.9 92.9#

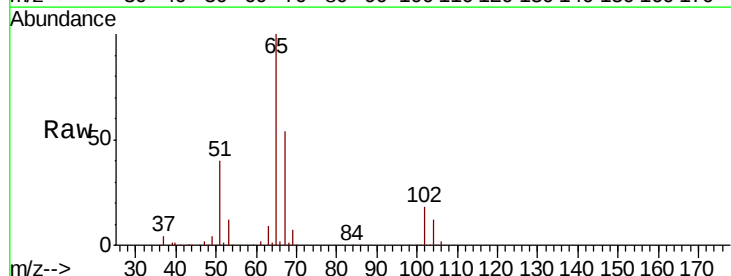


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

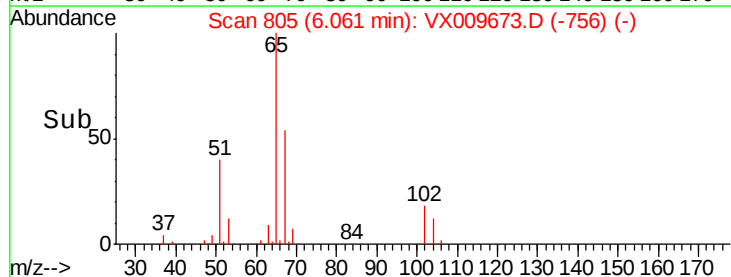
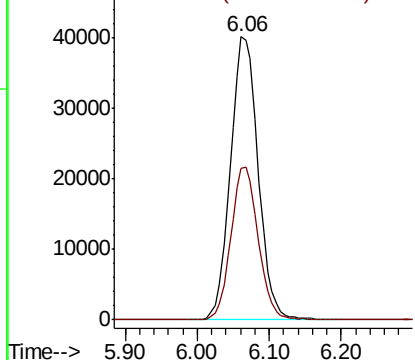


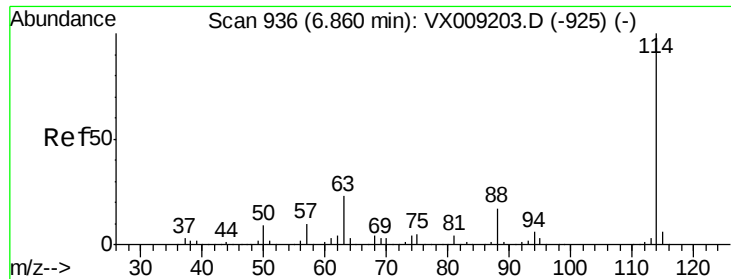
#33
1,2-Dichloroethane-d4
Concen: 49.162 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX009673.D
Acq: 17 May 2019 19:42

Tgt Ion: 65 Resp: 107219
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

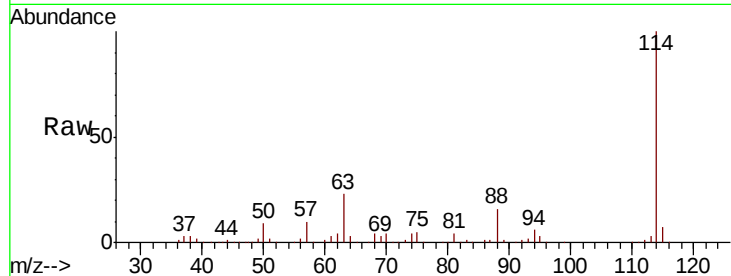




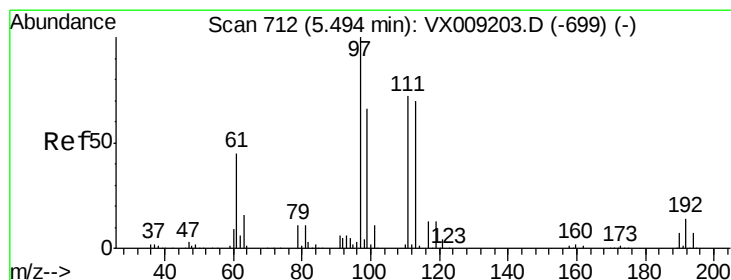
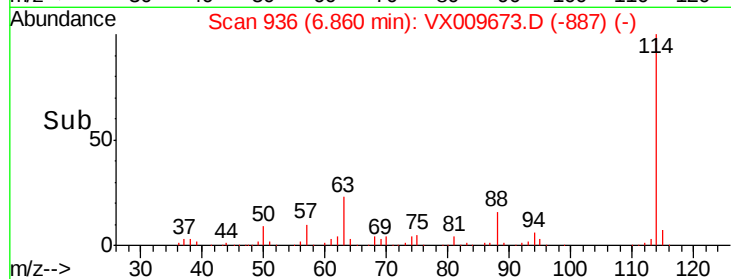
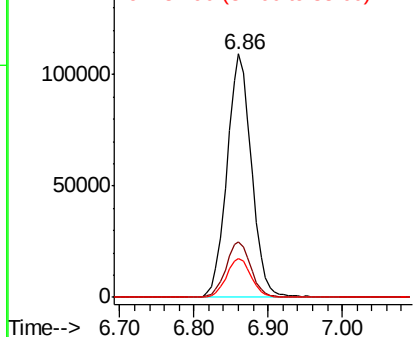
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009673.D
 Acq: 17 May 2019 19:42

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-GW-458-460

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	45.6
88	16.2	0.0	33.2

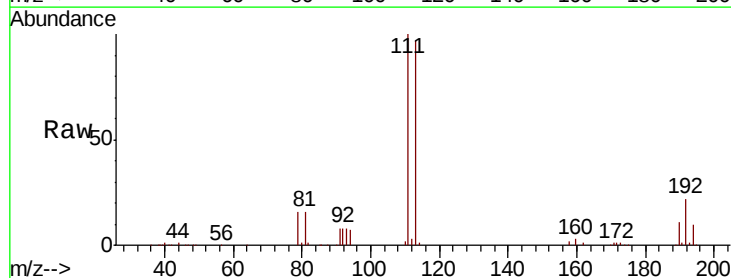


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

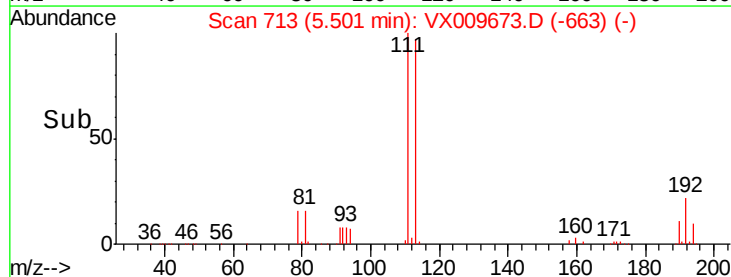
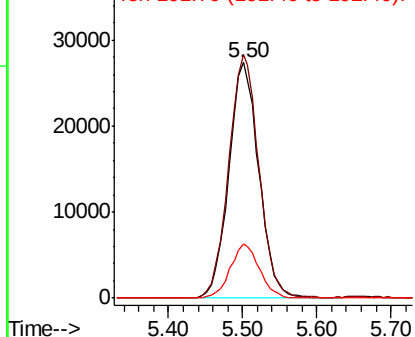


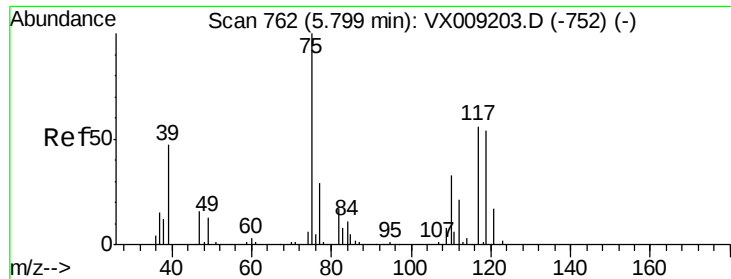
#35
 Dibromofluoromethane
 Concen: 48.700 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009673.D
 Acq: 17 May 2019 19:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.8	124.2
192	22.2	17.0	25.6



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: 5.212 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-458-460

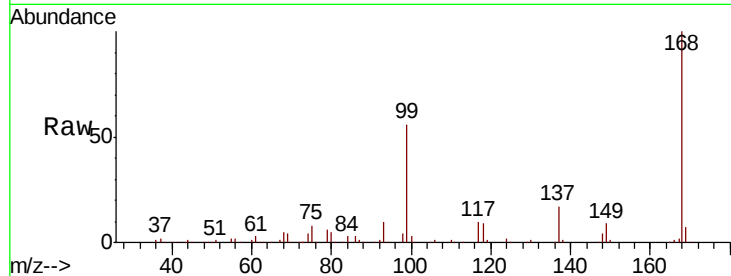
Tot Ion: 75 Resp: 12191

Ion Ratio Lower Upper

75 100

110 9.4 16.9 50.6#

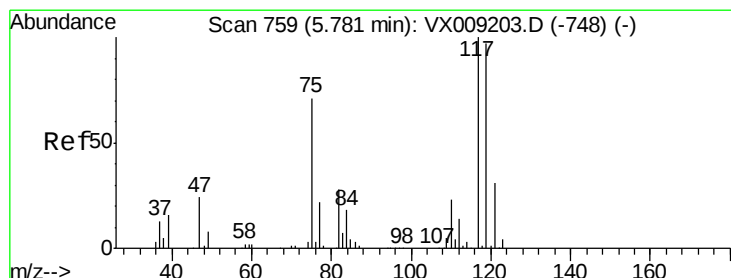
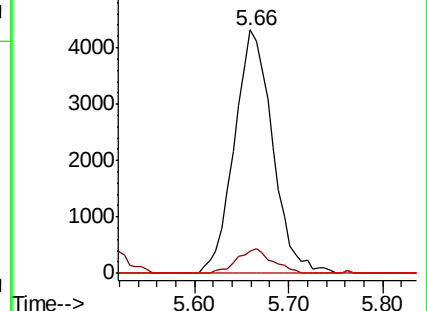
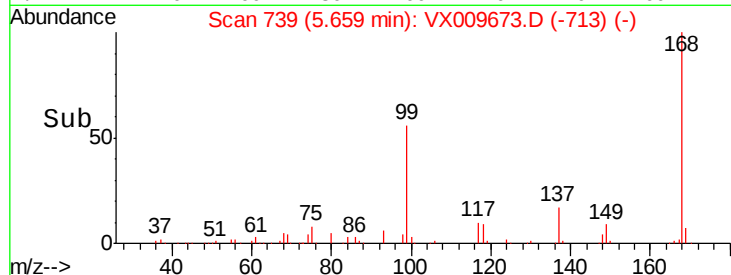
77 0.0 24.8 37.2#



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: 7.093 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

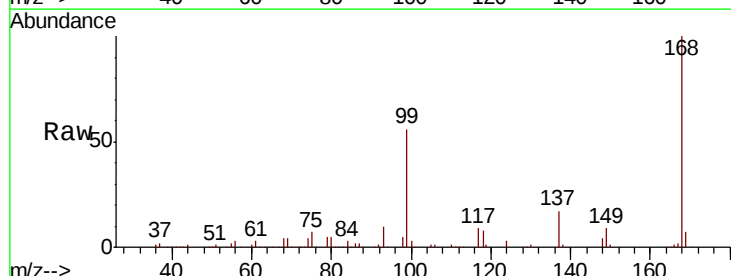
Tgt Ion:117 Resp: 15074

Ion Ratio Lower Upper

117 100

119 6.0 77.5 116.3#

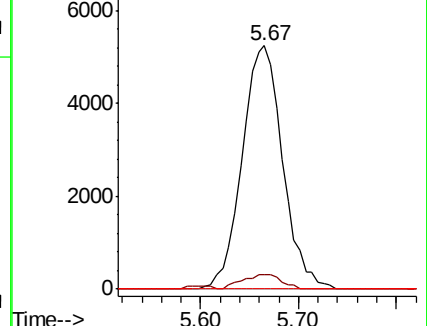
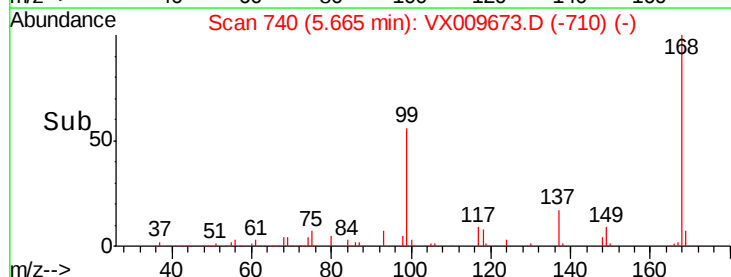
121 0.0 24.7 37.1#

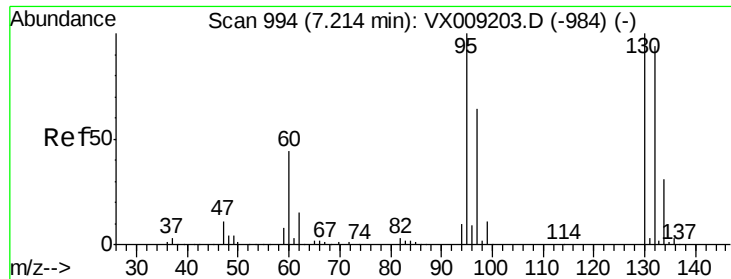


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.297 ug/l

RT: 7.23 min Scan# 996

Delta R.T. 0.01 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

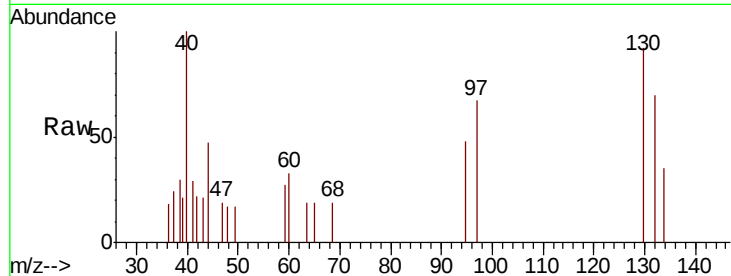
BP-VPB202-GW-458-460

Tot Ion:130 Resp: 520

Ion Ratio Lower Upper

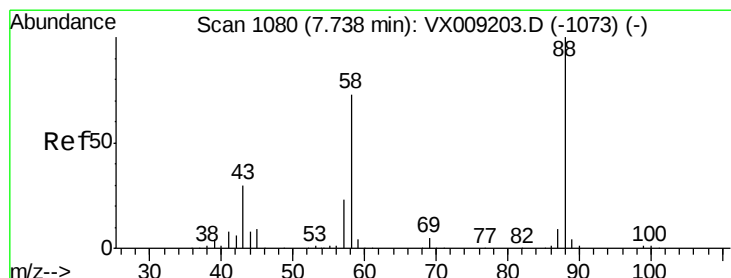
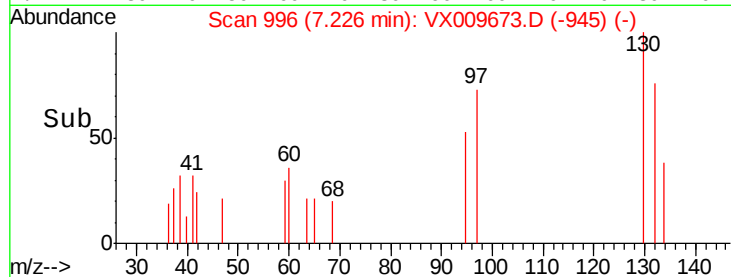
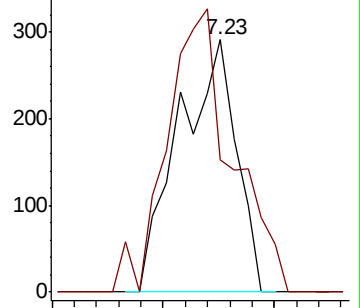
130 100

95 33.7 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.915 ug/l

RT: 7.52 min Scan# 1045

Delta R.T. -0.21 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

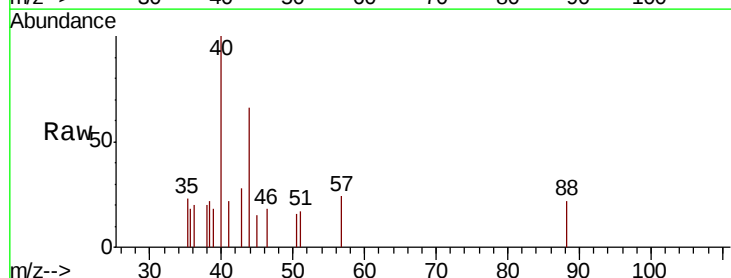
Tgt Ion: 88 Resp: 48

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

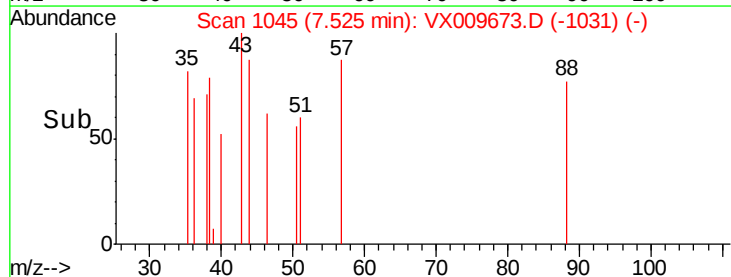
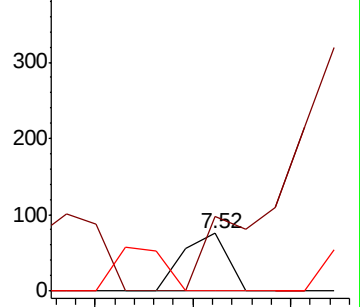
58 0.0 61.7 92.5#

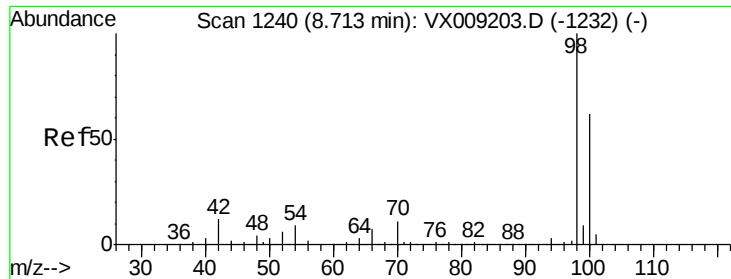


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.787 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

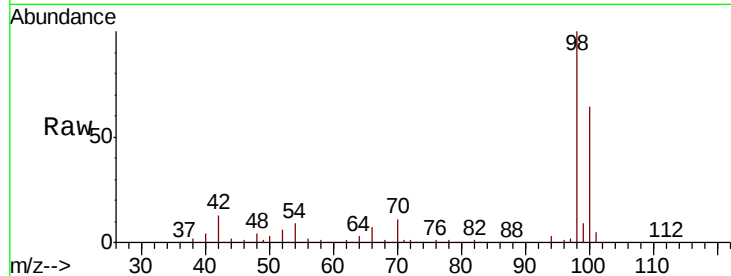
BP-VPB202-GW-458-460

Tot Ion: 98 Resp: 318022

Ion Ratio Lower Upper

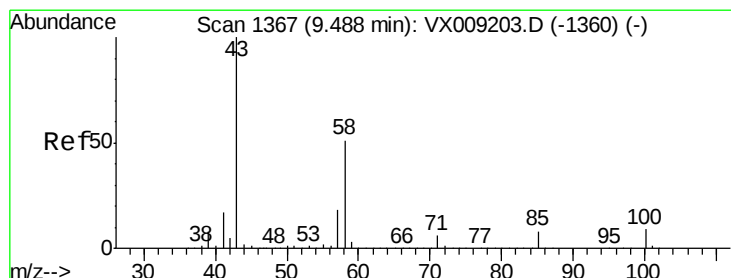
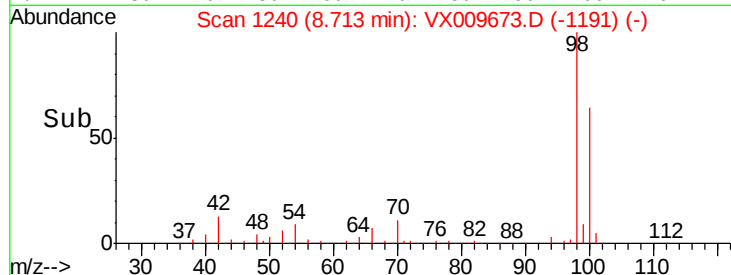
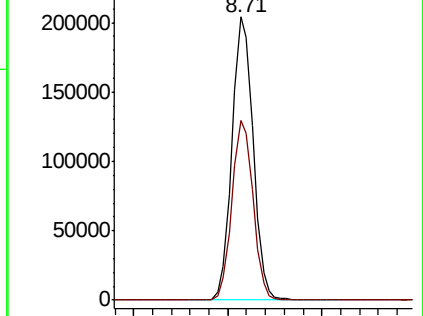
98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#59

2-Hexanone

Concen: 0.229 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VX009673.D

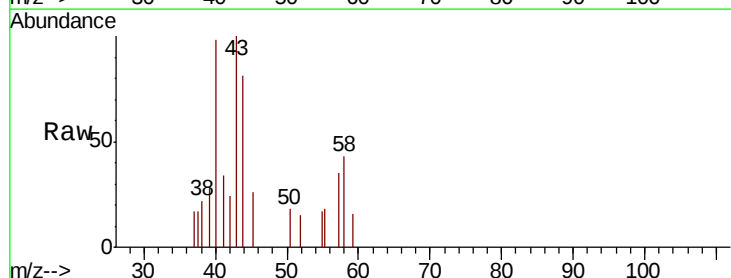
Acq: 17 May 2019 19:42

Tgt Ion: 43 Resp: 612

Ion Ratio Lower Upper

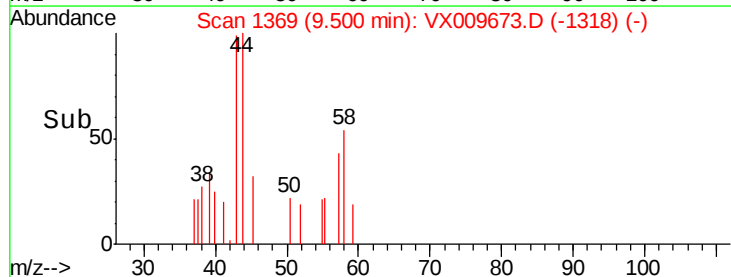
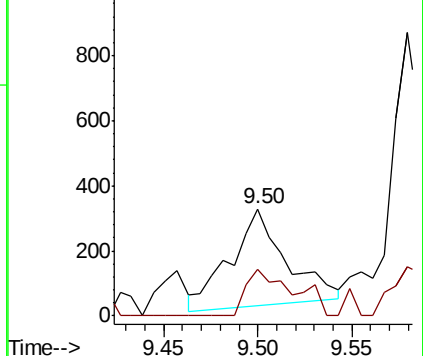
43 100

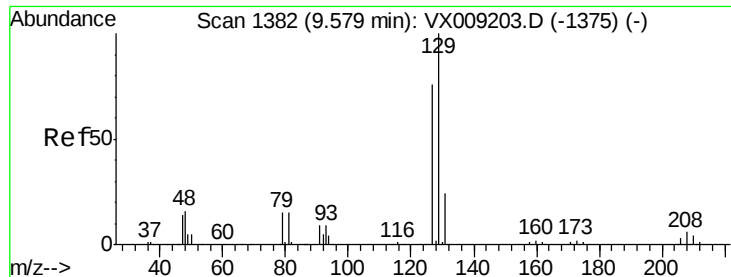
58 41.0 25.9 77.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#60

Dibromochloromethane

Concen: 0.782 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

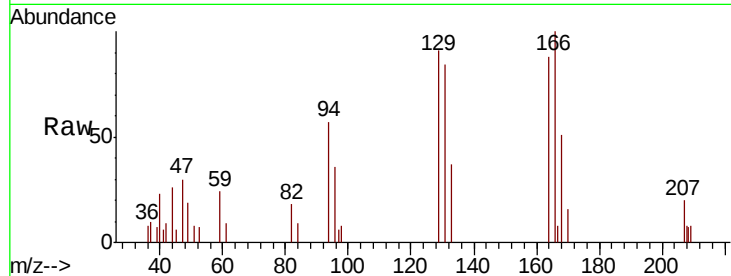
BP-VPB202-GW-458-460

Tot Ion:129 Resp: 1371

Ion Ratio Lower Upper

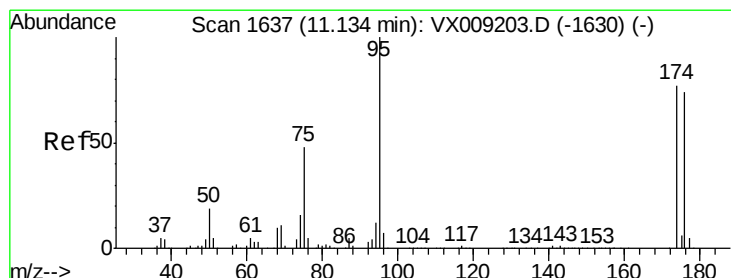
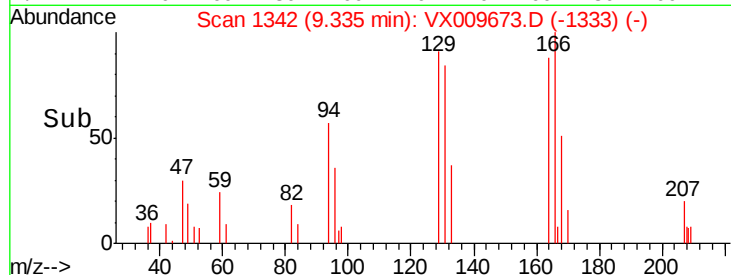
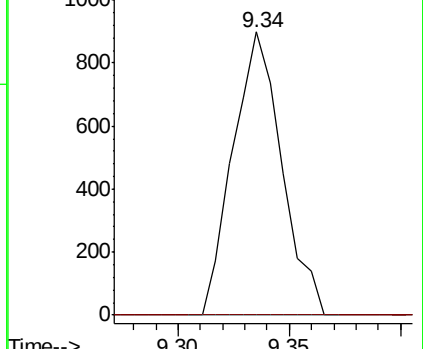
129 100

127 0.0 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.594 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

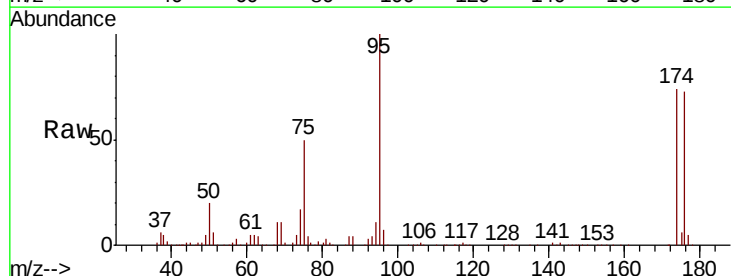
Tgt Ion: 95 Resp: 103505

Ion Ratio Lower Upper

95 100

174 80.9 0.0 161.6

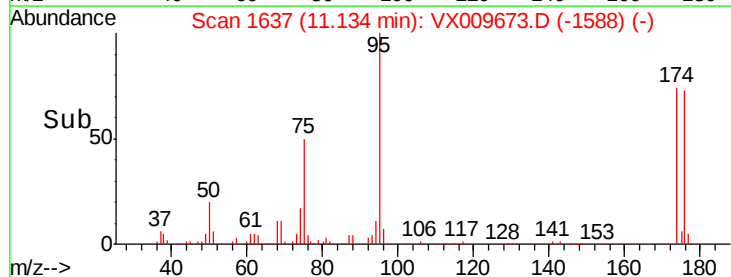
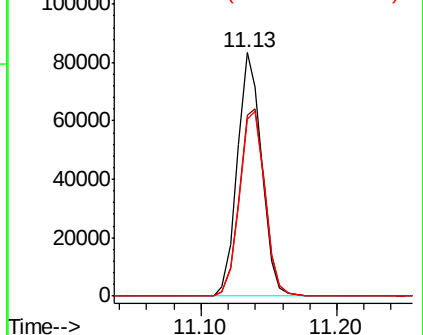
176 79.5 0.0 159.2

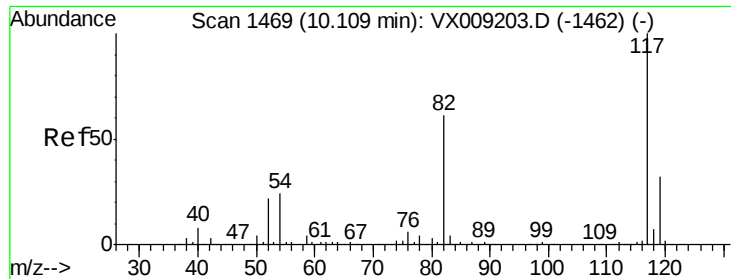


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

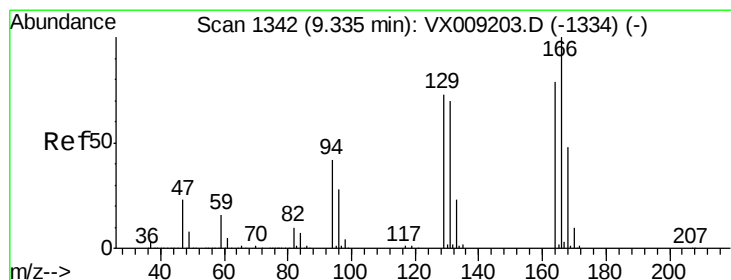
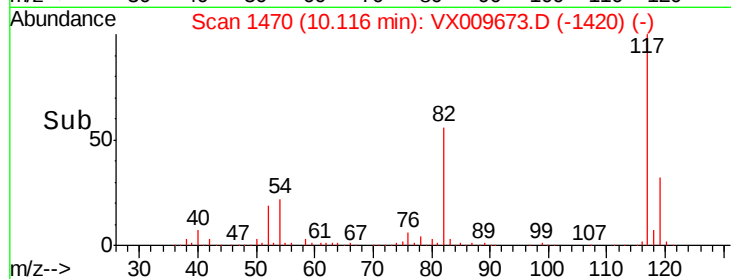
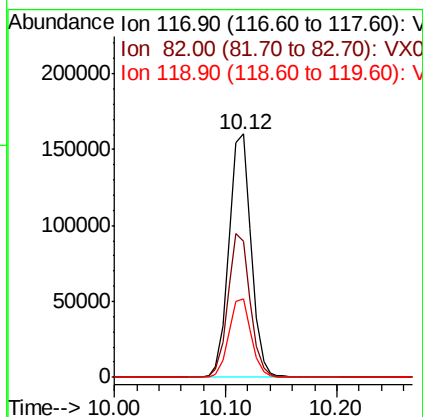
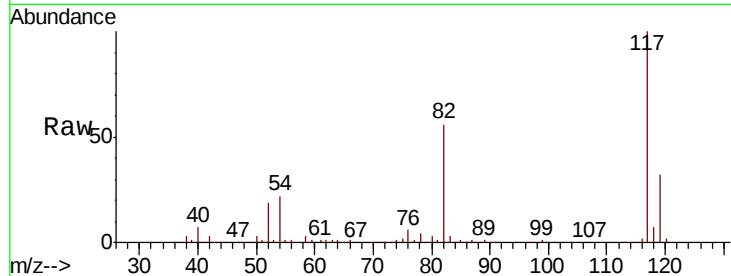




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009673.D
Acq: 17 May 2019 19:42

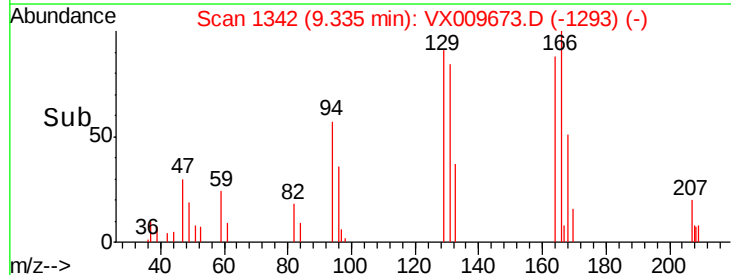
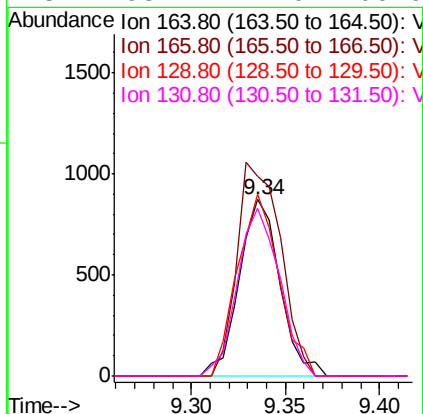
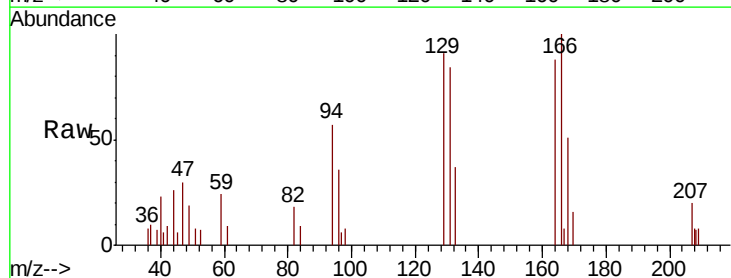
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB202-GW-458-460

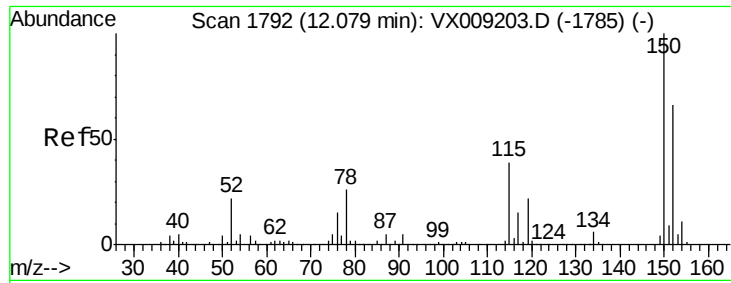
Tot Ion:117 Resp: 221318
Ion Ratio Lower Upper
117 100
82 56.0 48.8 73.2
119 32.0 25.8 38.6



#64
Tetrachloroethene
Concen: 0.861 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009673.D
Acq: 17 May 2019 19:42

Tgt Ion:164 Resp: 1307
Ion Ratio Lower Upper
164 100
166 113.5 101.2 151.8
129 102.9 74.3 111.5
131 95.1 71.0 106.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB202-GW-458-460

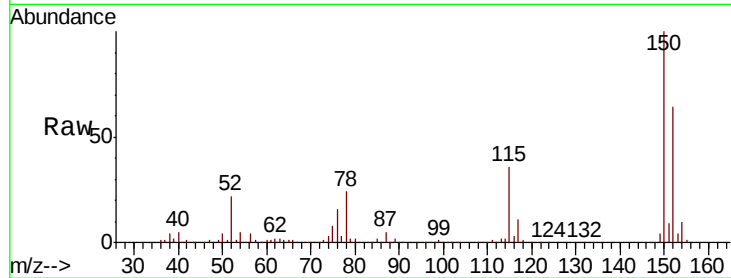
Tot Ion:152 Resp: 91656

Ion Ratio Lower Upper

152 100

115 59.0 41.2 123.6

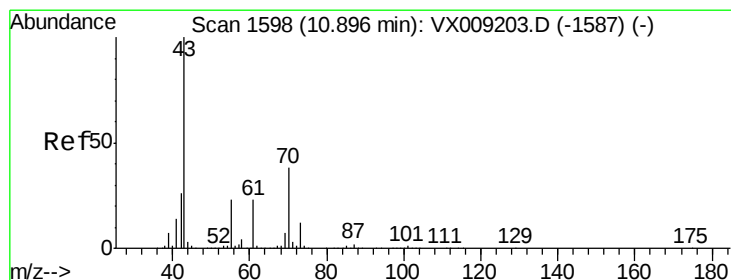
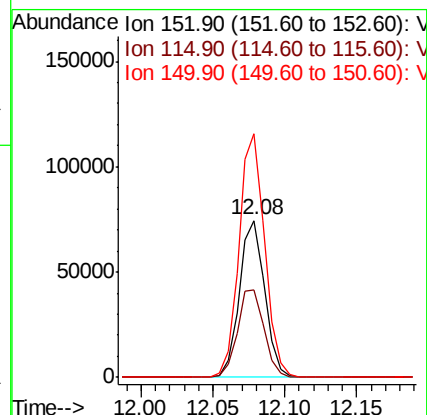
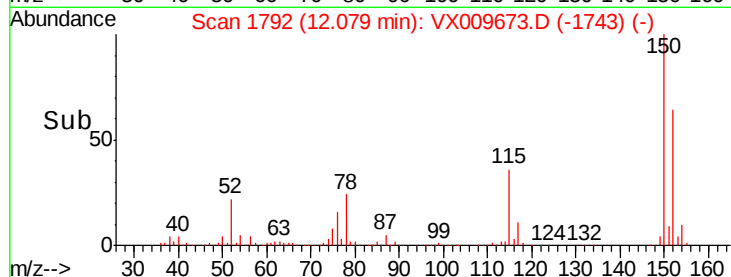
150 157.0 0.0 346.4



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



#74

N-ethyl acetate

Concen: 0.266 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX009673.D

Acq: 17 May 2019 19:42

Tgt Ion: 43 Resp: 1033

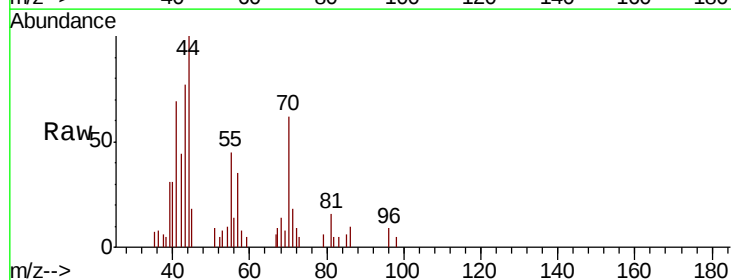
Ion Ratio Lower Upper

43 100

70 88.2 30.0 45.0#

55 92.3 17.9 26.9#

61 0.0 18.4 27.6#

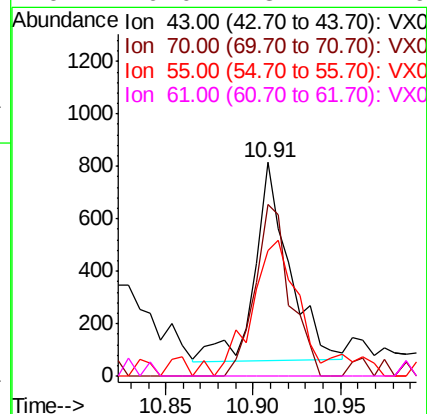
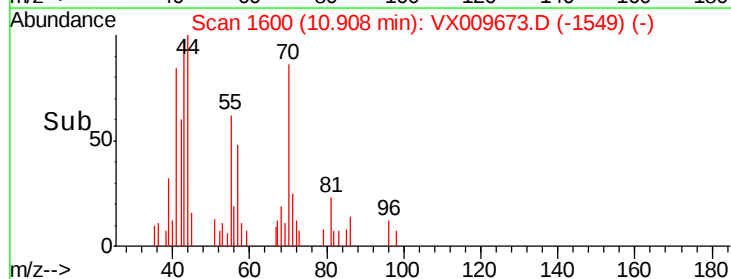


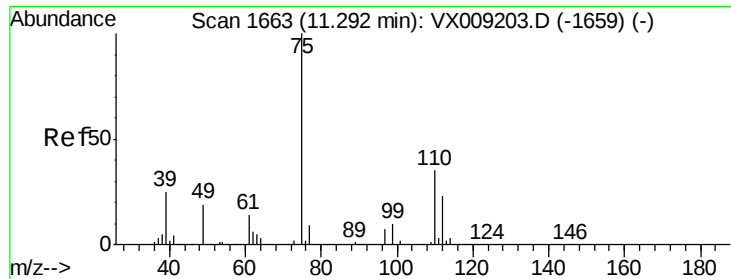
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

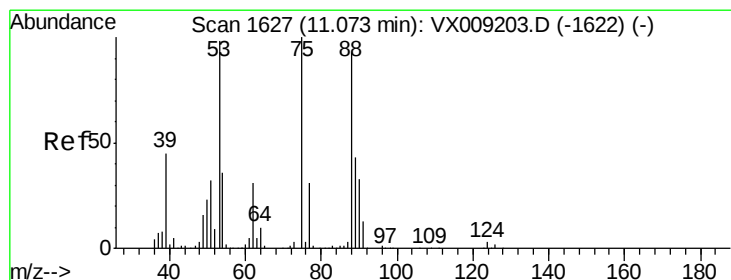
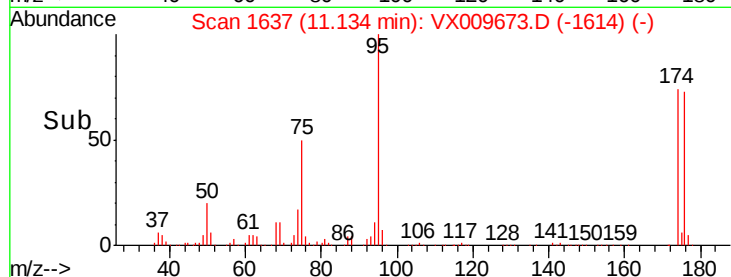
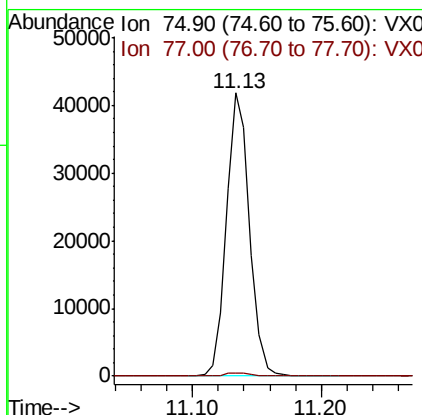
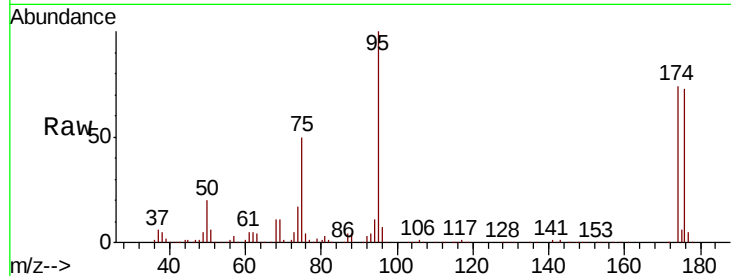




#76
 1,2,3-Trichloropropane
 Concen: 24.781 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009673.D
 Acq: 17 May 2019 19:42

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB202-GW-458-460

Tot Ion: 75 Resp: 52687
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.406 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009673.D
 Acq: 17 May 2019 19:42

Tgt Ion: 75 Resp: 52687
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.0 118.6#
 89 0.0 34.7 52.1#

