

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031219\
 Data File : VX008031.D
 Acq On : 12 Mar 2019 21:53
 Operator : JC/SP
 Sample : K1840-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-GW-700-702

Quant Time: Mar 13 05:23:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 07 07:33:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	239213	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	374578	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	358108	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175298	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	132265	52.41	ug/l	0.00
Spiked Amount			Recovery	=	104.82%	
35) Dibromofluoromethane	5.51	113	121891	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
50) Toluene-d8	8.71	98	458617	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.13	95	169751	55.02	ug/l	0.00
Spiked Amount			Recovery	=	110.04%	

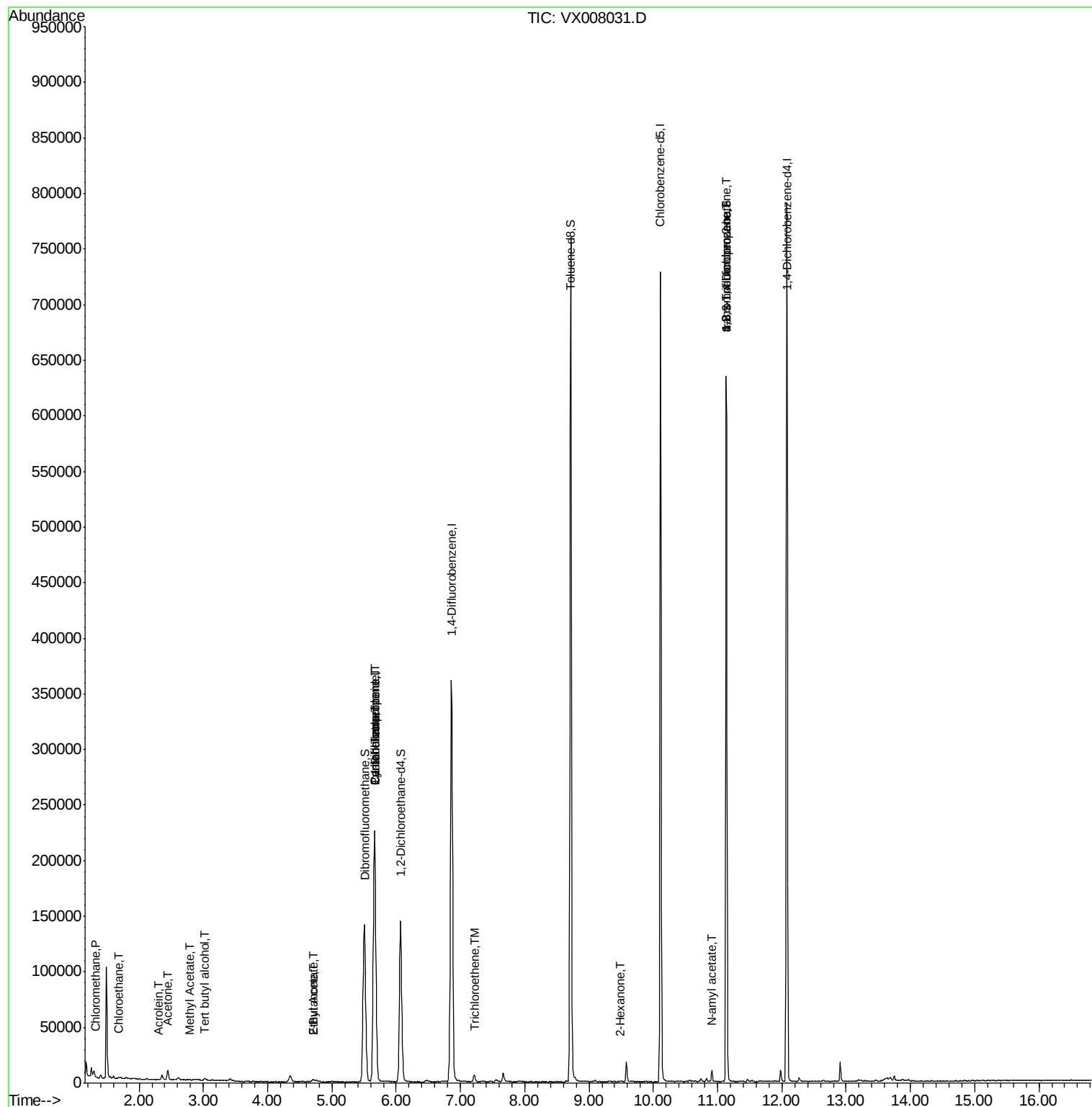
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	537	0.204	ug/l	96
5) Bromomethane	1.65	94	104	Below Cal	#	69
6) Chloroethane	1.69	64	3526	2.028	ug/l #	63
11) Tert butyl alcohol	3.02	59	1340	2.374	ug/l #	73
13) Acrolein	2.30	56	197	2.154	ug/l #	19
16) Acetone	2.45	43	10075	6.898	ug/l	91
17) Carbon Disulfide	2.57	76	550	Below Cal	#	64
18) Methyl Acetate	2.78	43	890	0.287	ug/l #	79
25) 2-Butanone	4.70	43	3757	1.817	ug/l #	90
31) Cyclohexane	5.67	56	3672	0.947	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14767	4.354	ug/l #	49
37) Ethyl Acetate	4.70	43	3757	0.933	ug/l #	68
38) Carbon Tetrachloride	5.66	117	20452	6.352	ug/l #	17
44) Trichloroethene	7.21	130	2765	0.994	ug/l	96
59) 2-Hexanone	9.50	43	705	0.237	ug/l	80
74) N-amyl acetate	10.91	43	1467	0.271	ug/l #	13
76) 1,2,3-Trichloropropane	11.13	75	77081	20.955	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	77081	66.981	ug/l #	11

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Instrument :

MSVOA_X

ClientSampleId :

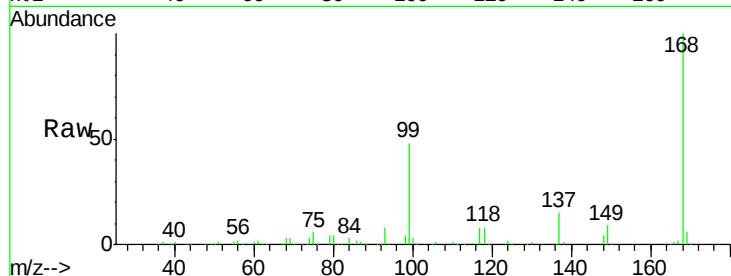
BP-VPB201-GW-700-702

Tot Ion:168 Resp: 239213

Ion Ratio Lower Upper

168 100

99 48.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

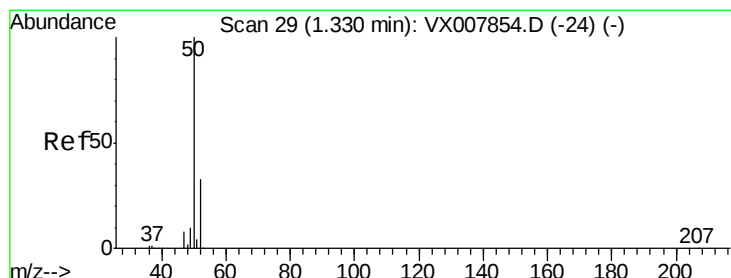
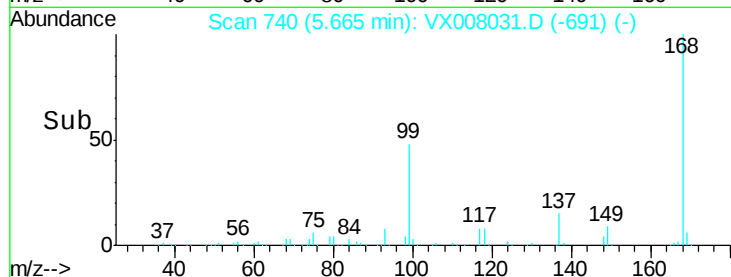
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.204 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX008031.D

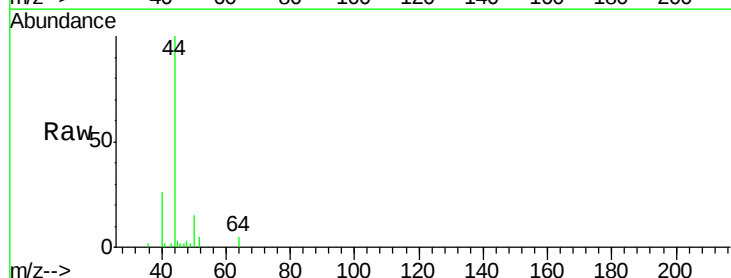
Acq: 12 Mar 2019 21:53

Tgt Ion: 50 Resp: 537

Ion Ratio Lower Upper

50 100

52 30.8 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

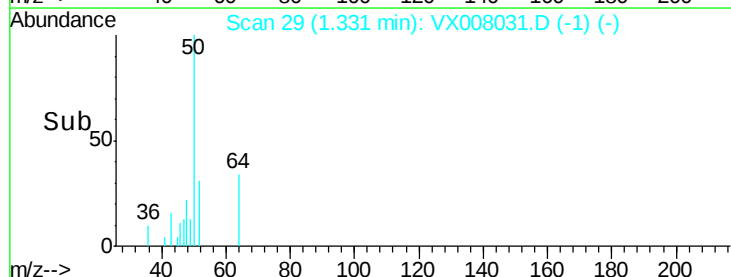
300

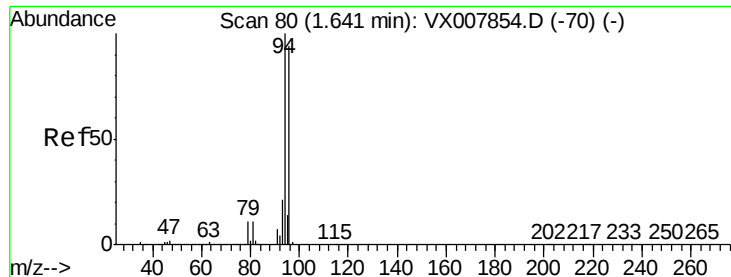
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Instrument :

MSVOA_X

ClientSampleId :

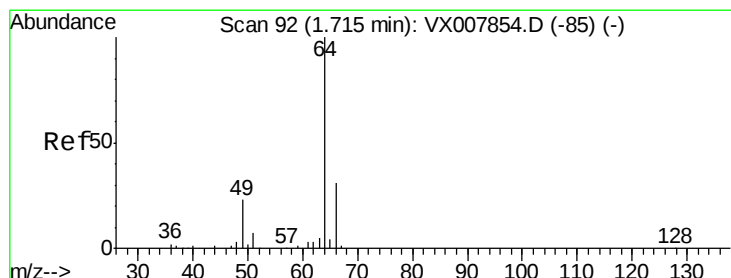
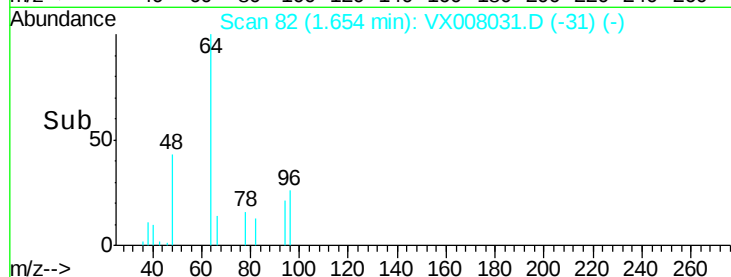
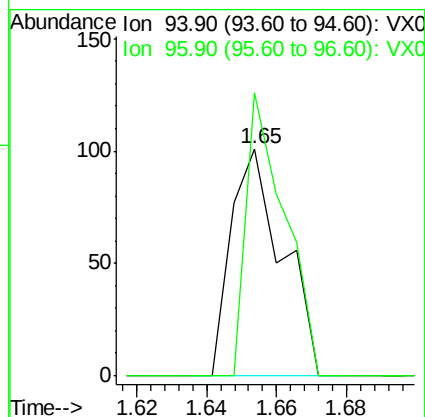
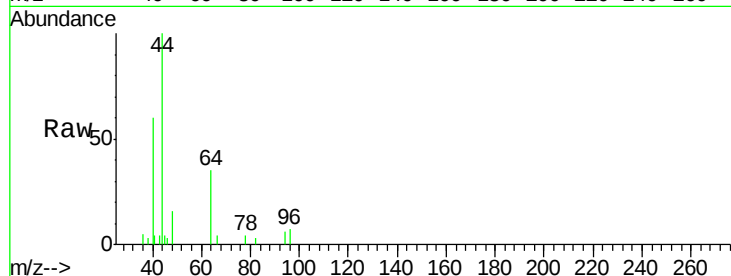
BP-VPB201-GW-700-702

Tot Ion: 94 Resp: 104

Ion Ratio Lower Upper

94 100

96 124.8 75.5 113.3#



#6

Chloroethane

Concen: 2.028 ug/l

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX008031.D

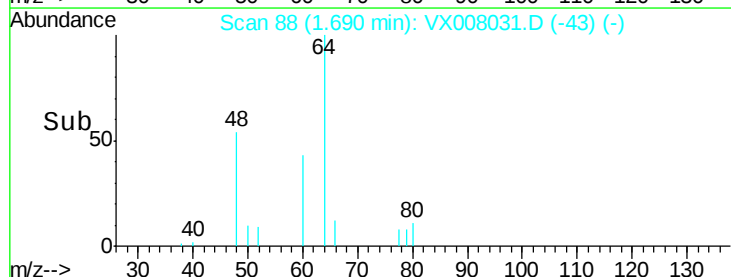
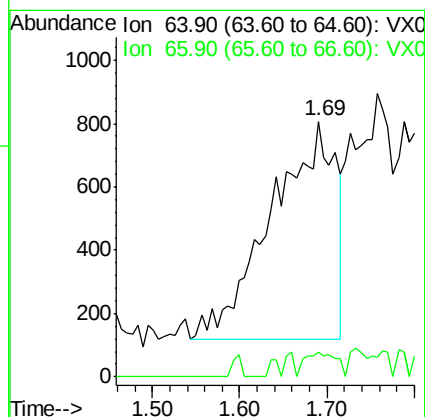
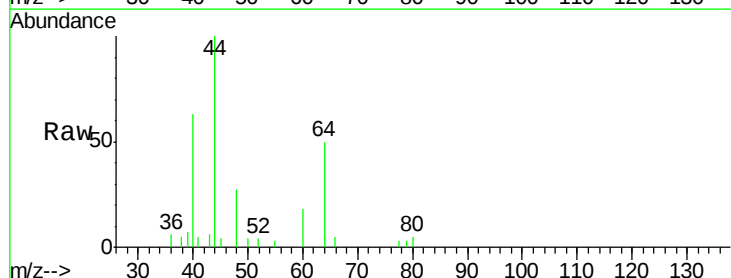
Acq: 12 Mar 2019 21:53

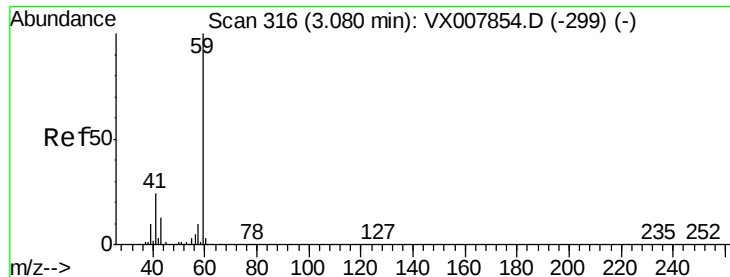
Tgt Ion: 64 Resp: 3526

Ion Ratio Lower Upper

64 100

66 11.2 25.2 37.8#

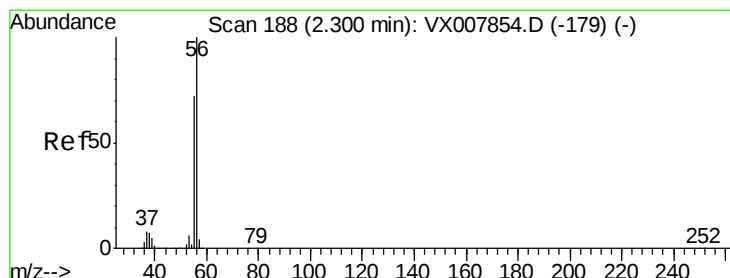
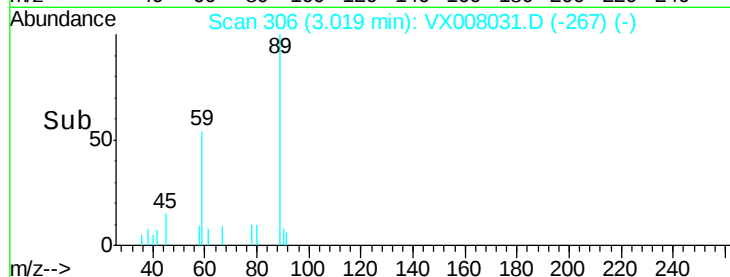
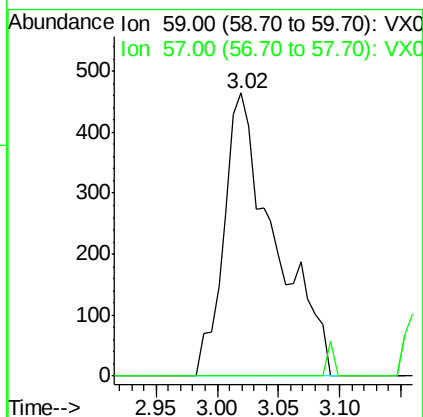
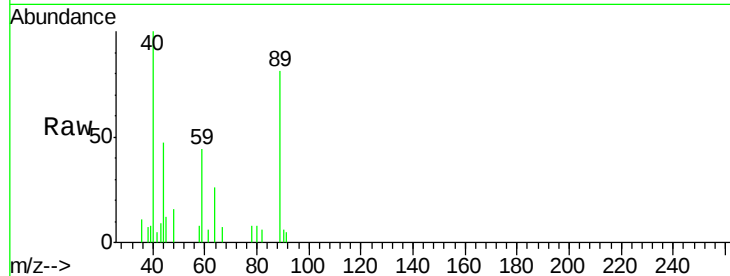




#11
Tert butyl alcohol
Concen: 2.374 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX008031.D
Acq: 12 Mar 2019 21:53

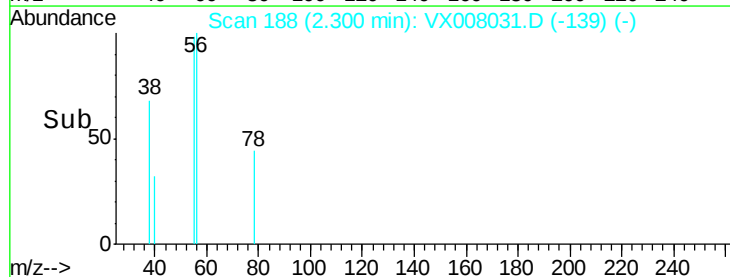
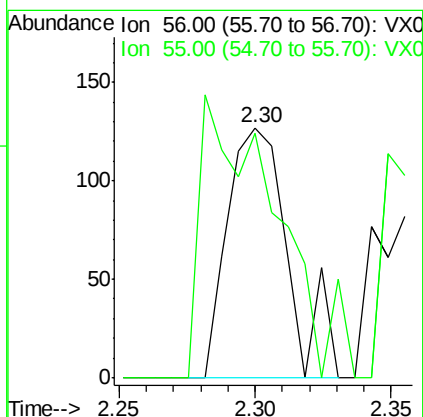
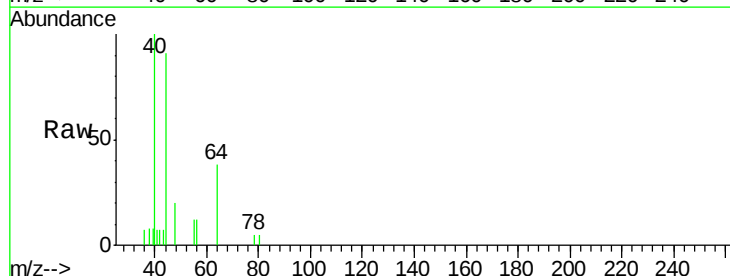
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-700-702

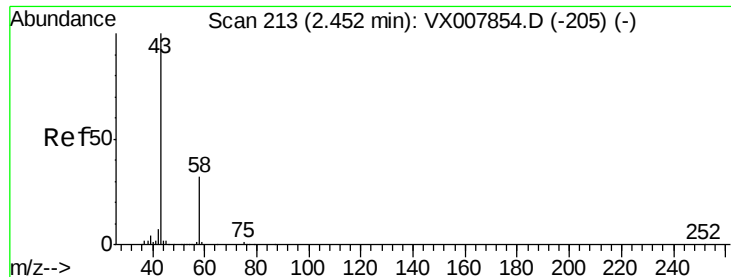
Tot Ion: 59 Resp: 1340
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 2.154 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.00 min
Lab File: VX008031.D
Acq: 12 Mar 2019 21:53

Tgt Ion: 56 Resp: 197
Ion Ratio Lower Upper
56 100
55 140.1 57.8 86.6#





#16

Acetone

Concen: 6.898 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Instrument :

MSVOA_X

ClientSampleId :

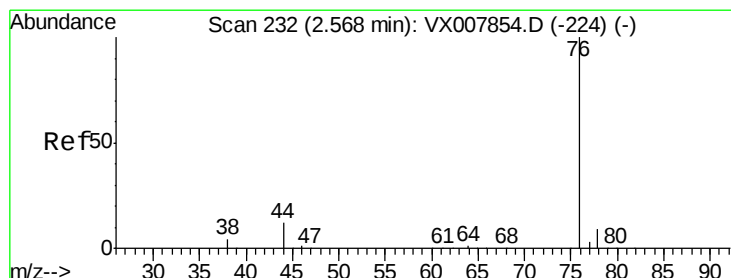
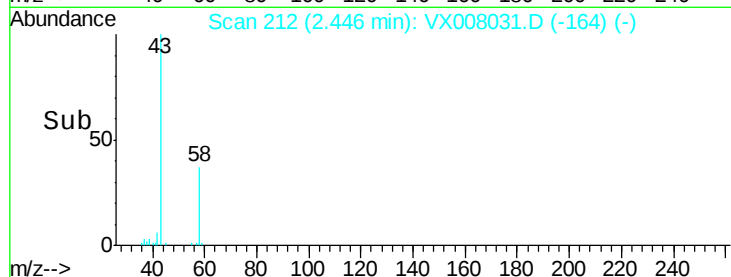
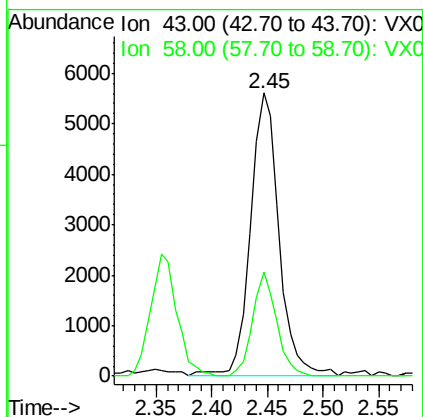
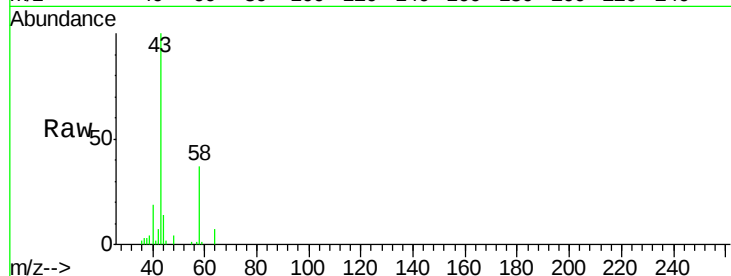
BP-VPB201-GW-700-702

Tot Ion: 43 Resp: 10075

Ion Ratio Lower Upper

43 100

58 36.6 25.5 38.3



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008031.D

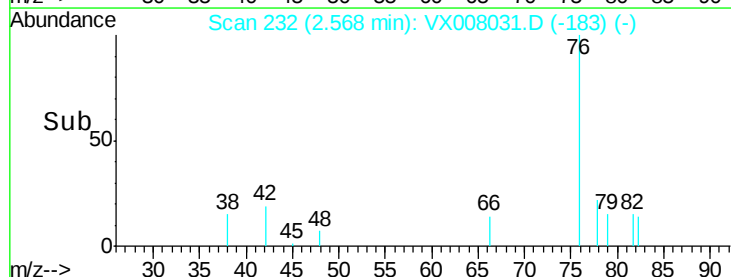
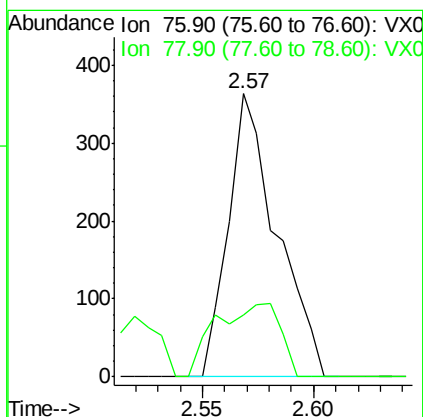
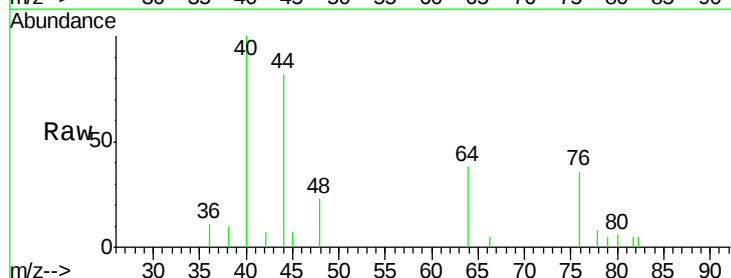
Acq: 12 Mar 2019 21:53

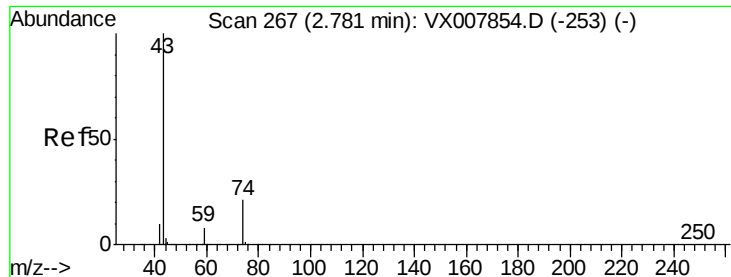
Tgt Ion: 76 Resp: 550

Ion Ratio Lower Upper

76 100

78 22.0 7.2 10.8#





#18

Methvl Acetate

Concen: 0.287 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Instrument :

MSVOA_X

ClientSampleId :

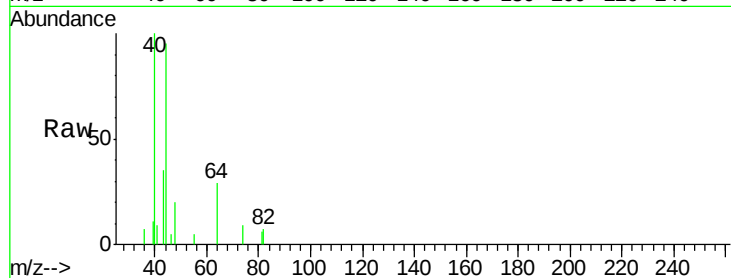
BP-VPB201-GW-700-702

Tot Ion: 43 Resp: 890

Ion Ratio Lower Upper

43 100

74 12.1 17.8 26.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

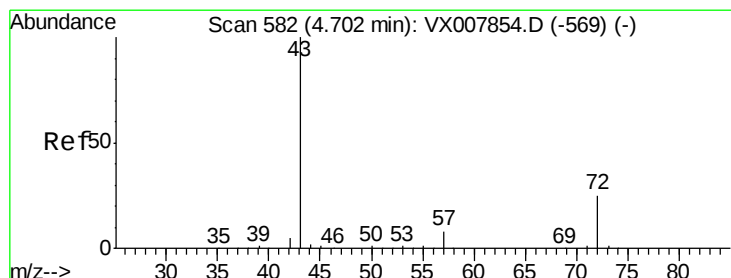
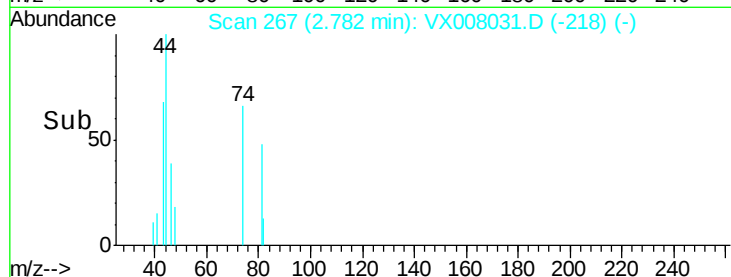
300

200

100

0

Time--> 2.70 2.75 2.80 2.85



#25

2-Butanone

Concen: 1.817 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX008031.D

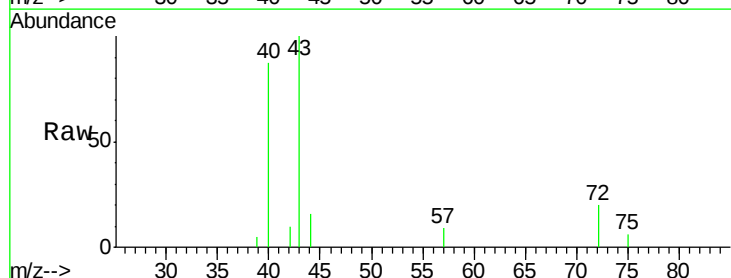
Acq: 12 Mar 2019 21:53

Tgt Ion: 43 Resp: 3757

Ion Ratio Lower Upper

43 100

72 19.7 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

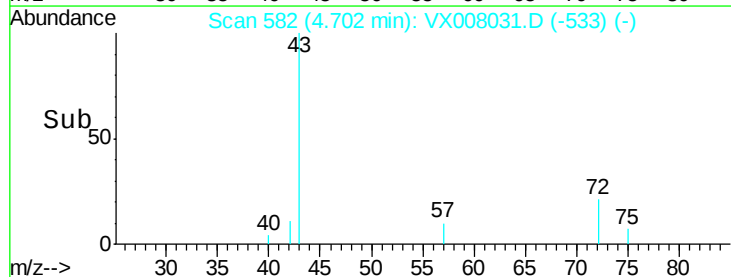
4.70

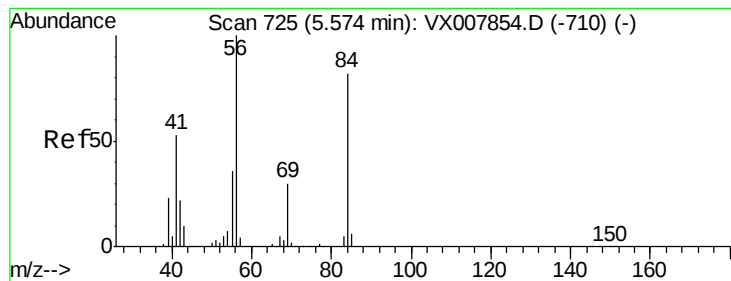
1000

500

0

Time--> 4.60 4.65 4.70 4.75 4.80





#31

Cvclohexane

Concen: 0.947 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-700-702

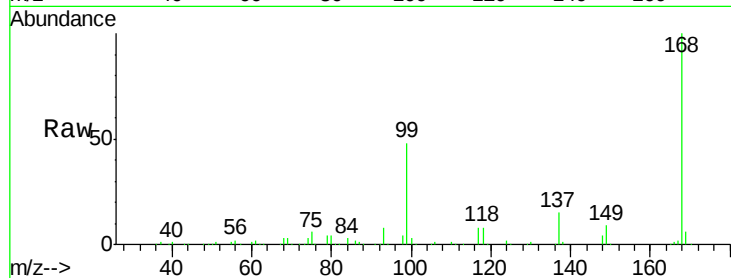
Tot Ion: 56 Resp: 3672

Ion Ratio Lower Upper

56 100

69 183.3 24.0 36.0#

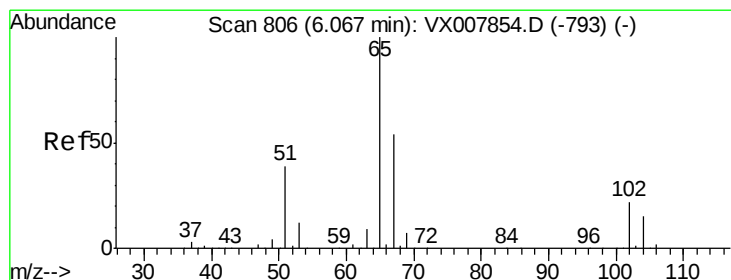
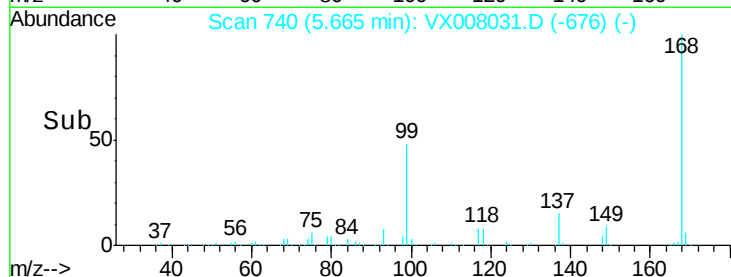
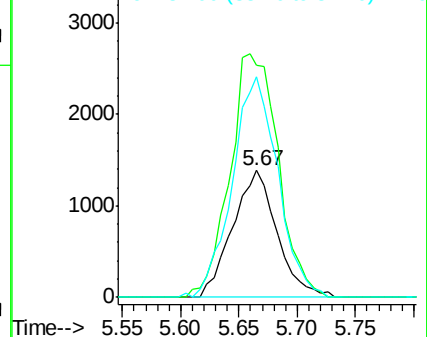
84 173.5 65.3 97.9#



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: 52.414 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008031.D

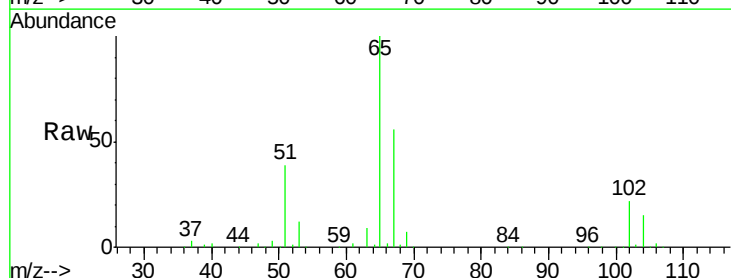
Acq: 12 Mar 2019 21:53

Tgt Ion: 65 Resp: 132265

Ion Ratio Lower Upper

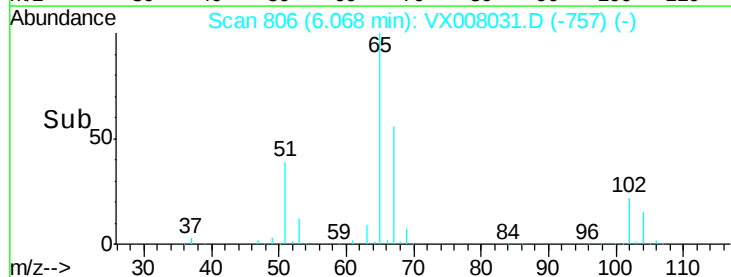
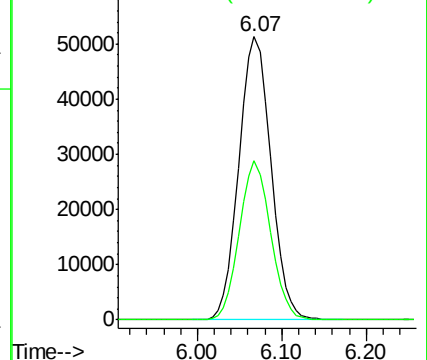
65 100

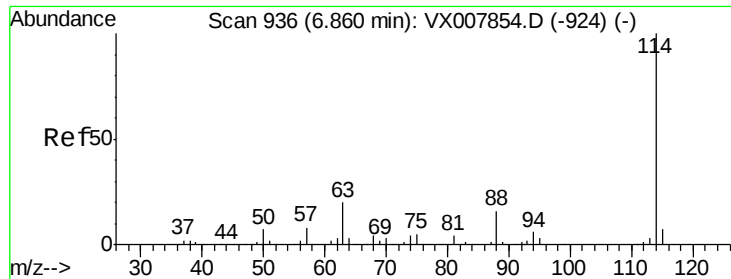
67 55.0 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

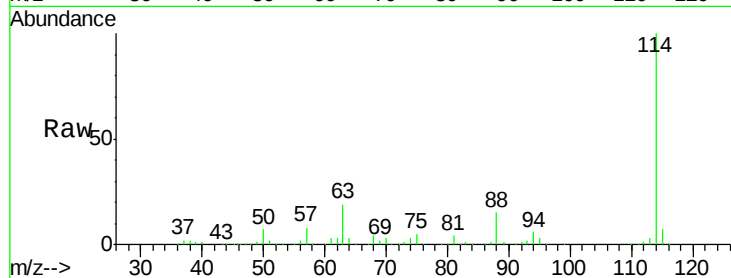




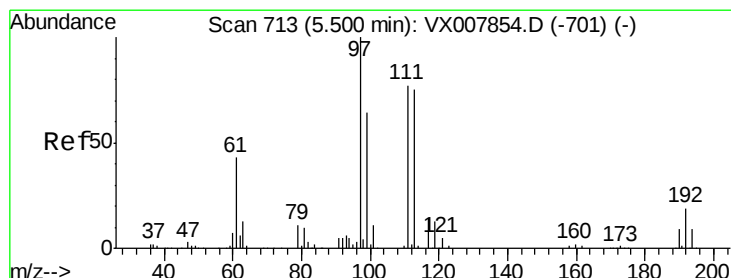
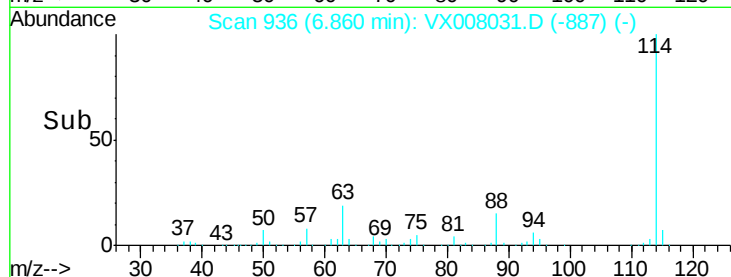
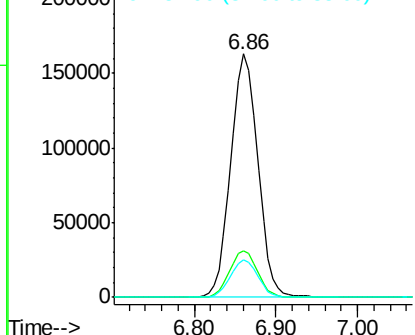
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008031.D
 Acq: 12 Mar 2019 21:53

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-GW-700-702

Tot Ion:114 Resp: 374578
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.8
 88 15.4 0.0 31.4

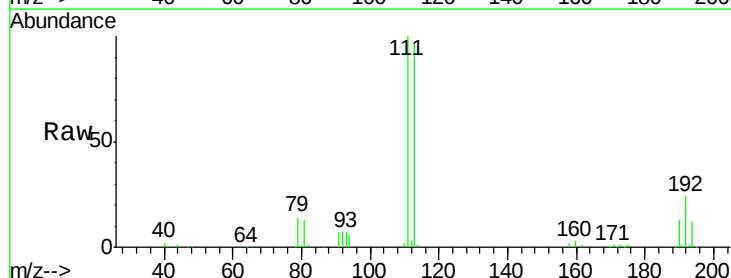


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

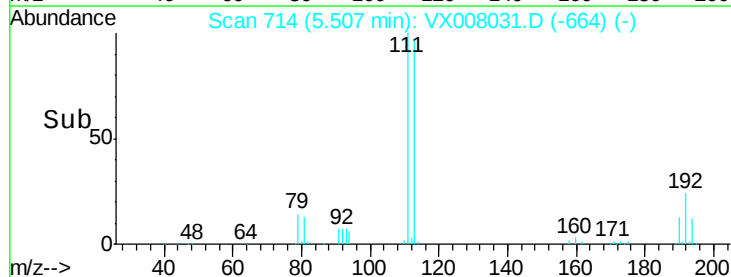
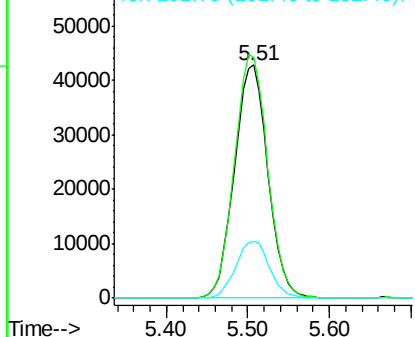


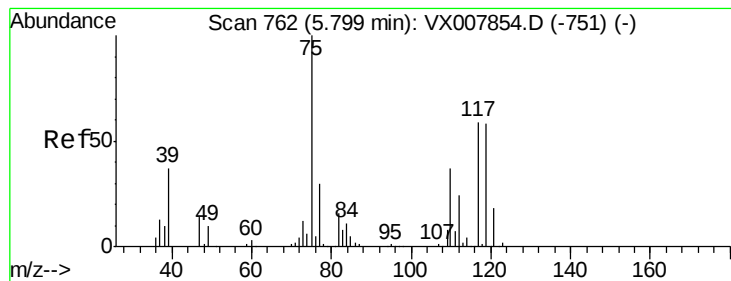
#35
 Dibromofluoromethane
 Concen: 50.872 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX008031.D
 Acq: 12 Mar 2019 21:53

Tgt Ion:113 Resp: 121891
 Ion Ratio Lower Upper
 113 100
 111 103.8 81.4 122.0
 192 24.9 19.4 29.0



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.354 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-700-702

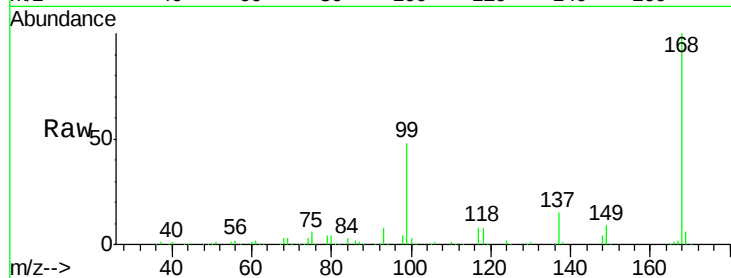
Tot Ion: 75 Resp: 14767

Ion Ratio Lower Upper

75 100

110 9.5 18.4 55.0#

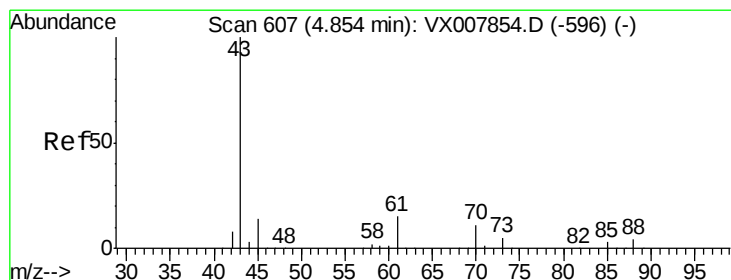
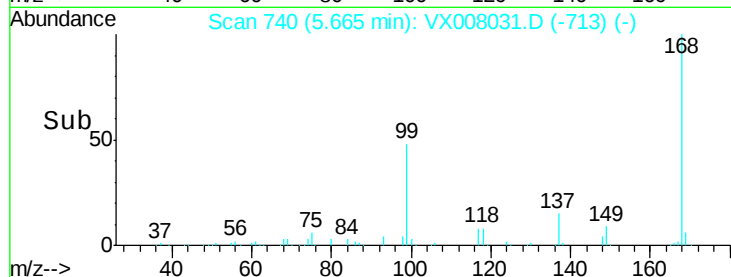
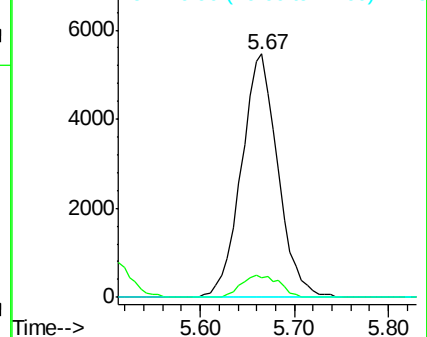
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.933 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.15 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

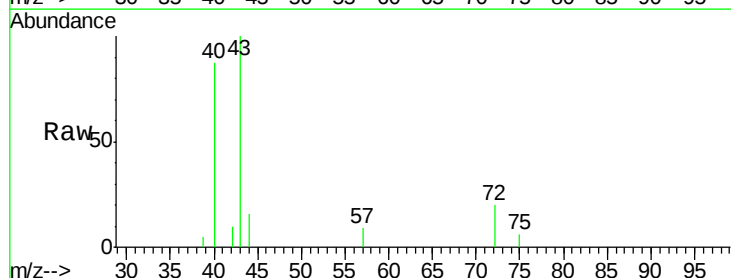
Tgt Ion: 43 Resp: 3757

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

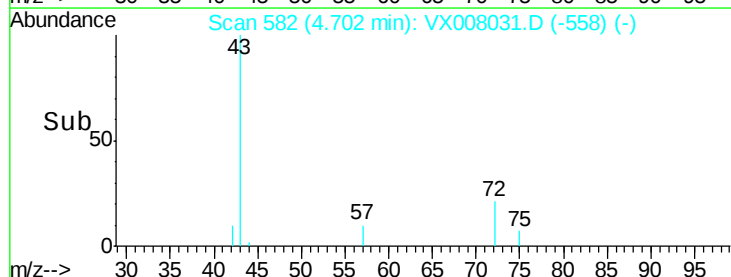
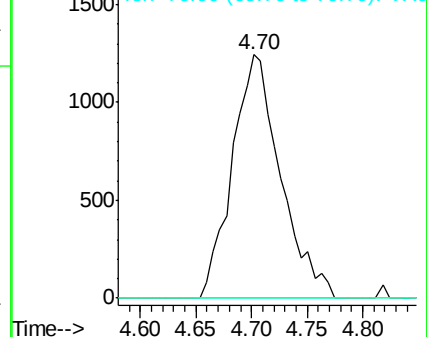
70 0.0 8.5 12.7#

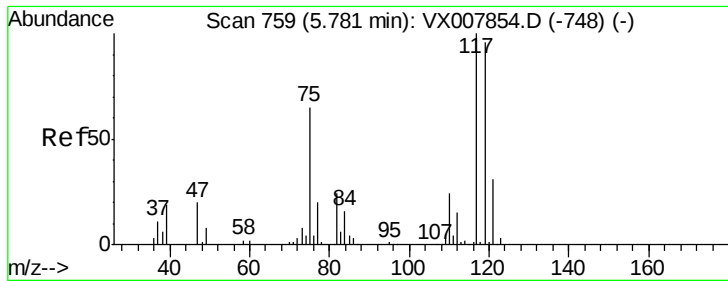


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 6.352 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-700-702

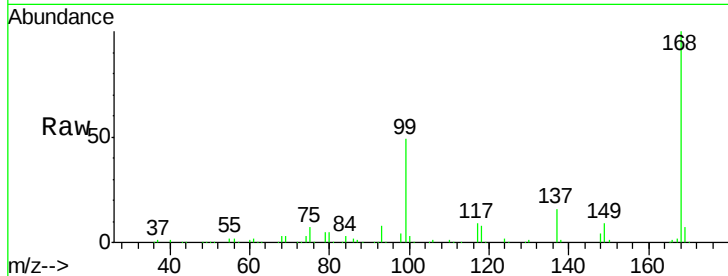
Tot Ion:117 Resp: 20452

Ion Ratio Lower Upper

117 100

119 5.5 76.2 114.2#

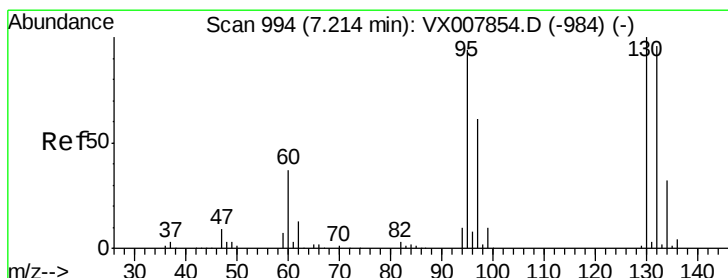
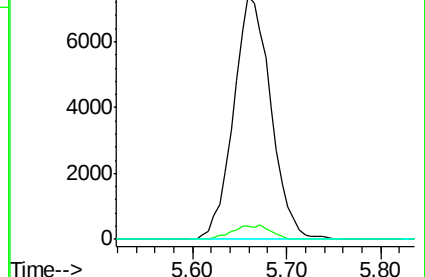
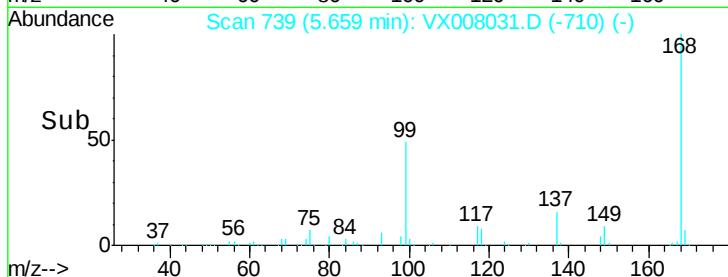
121 0.0 24.6 36.8#



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: 0.994 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008031.D

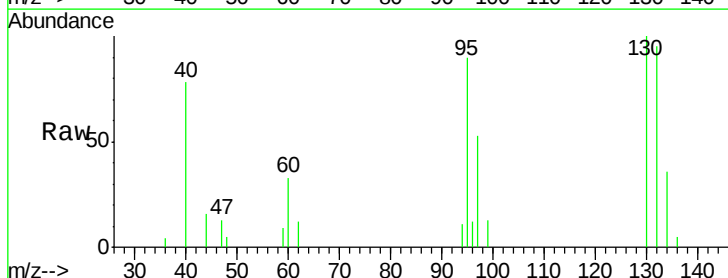
Acq: 12 Mar 2019 21:53

Tgt Ion:130 Resp: 2765

Ion Ratio Lower Upper

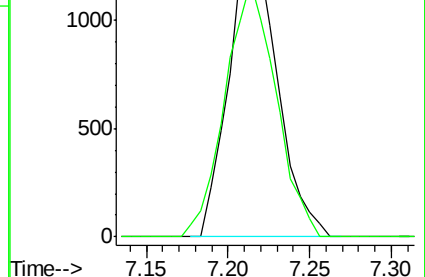
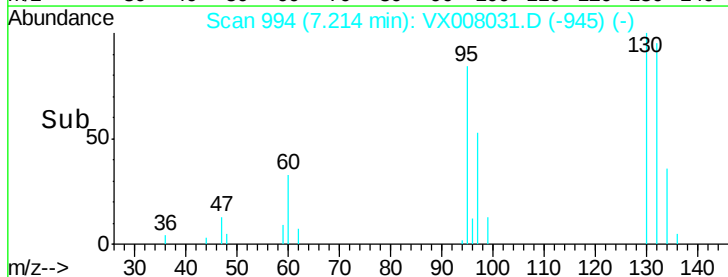
130 100

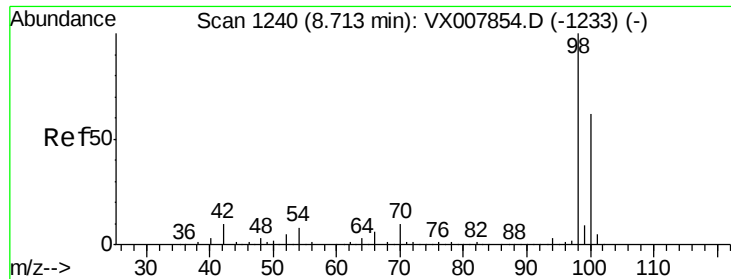
95 90.4 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

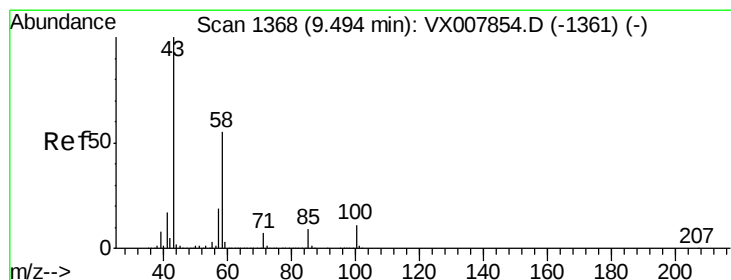
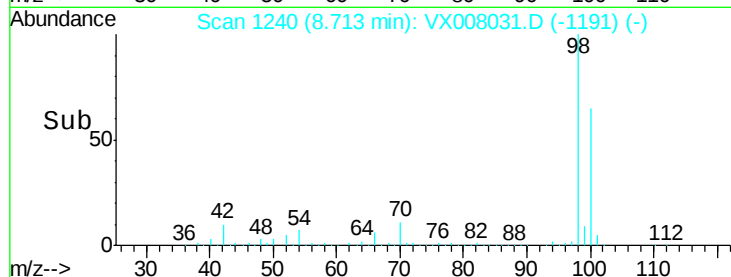
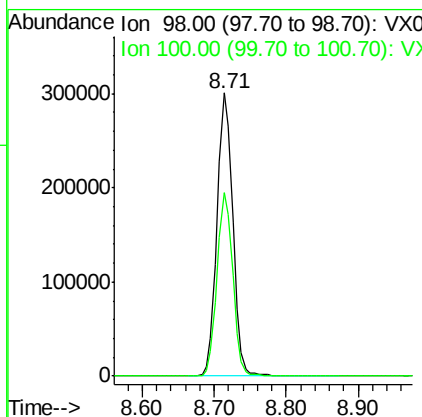
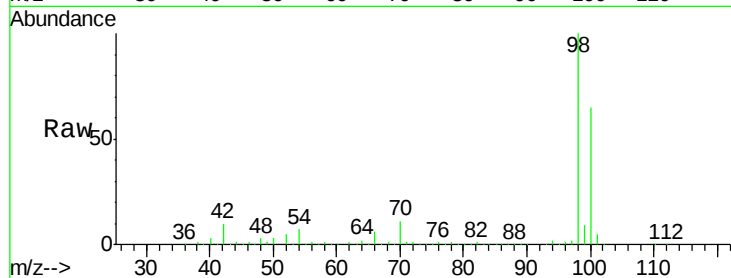




#50
Toluene-d8
Concen: 52.118 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008031.D
Acq: 12 Mar 2019 21:53

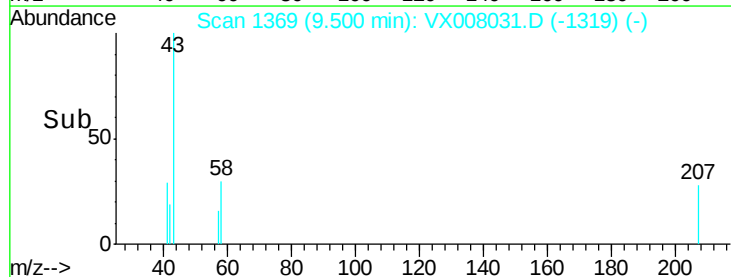
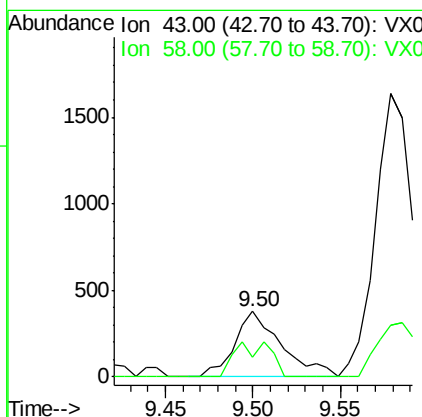
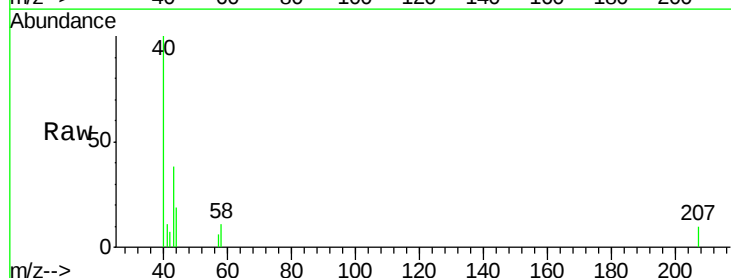
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB201-GW-700-702

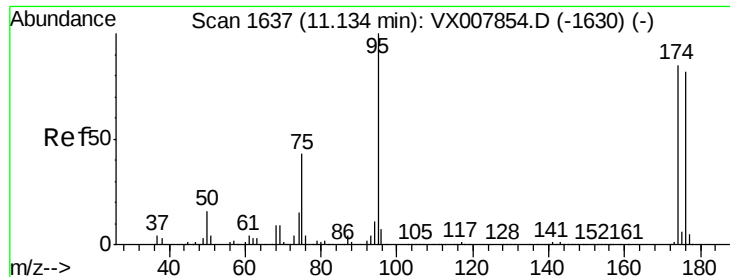
Tot Ion: 98 Resp: 458617
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



#59
2-Hexanone
Concen: 0.237 ug/l
RT: 9.50 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VX008031.D
Acq: 12 Mar 2019 21:53

Tgt Ion: 43 Resp: 705
Ion Ratio Lower Upper
43 100
58 40.7 27.6 82.7





#62

4-Bromofluorobenzene

Concen: 55.022 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-700-702

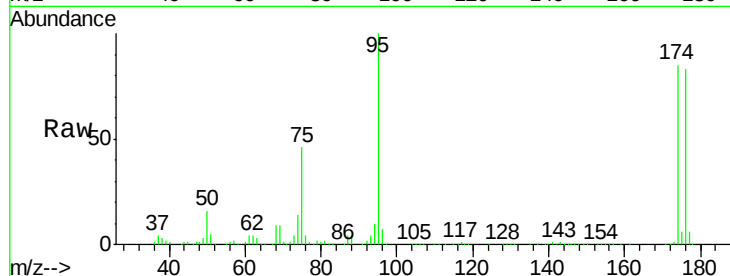
Tot Ion: 95 Resp: 169751

Ion Ratio Lower Upper

95 100

174 92.4 0.0 182.8

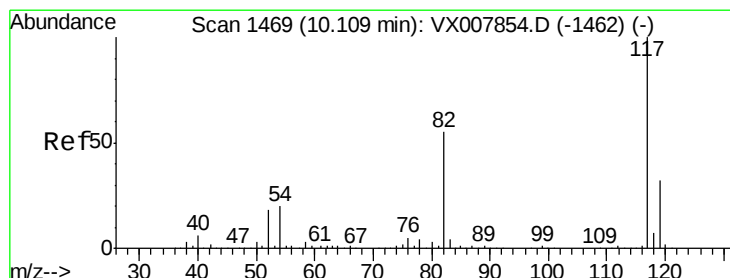
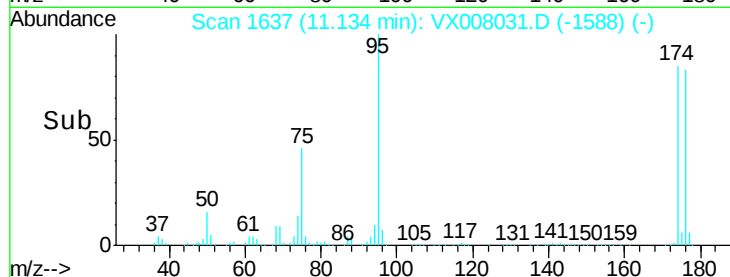
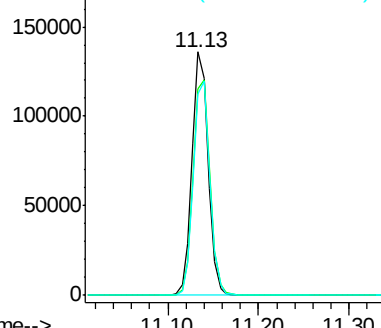
176 90.1 0.0 178.0



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

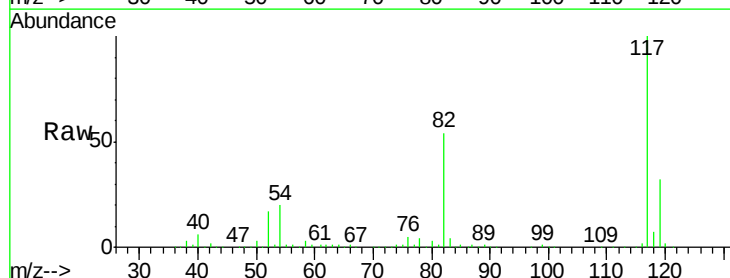
Tgt Ion: 117 Resp: 358108

Ion Ratio Lower Upper

117 100

82 54.4 44.3 66.5

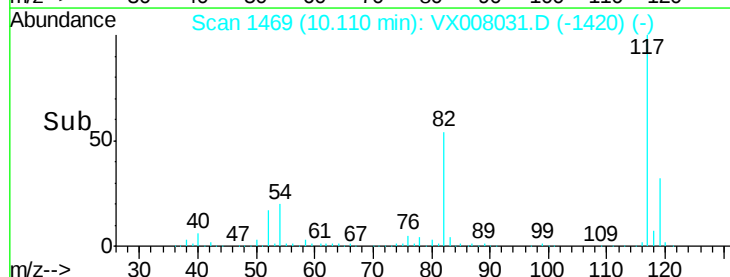
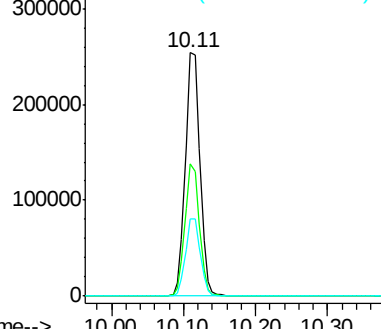
119 31.7 25.3 37.9

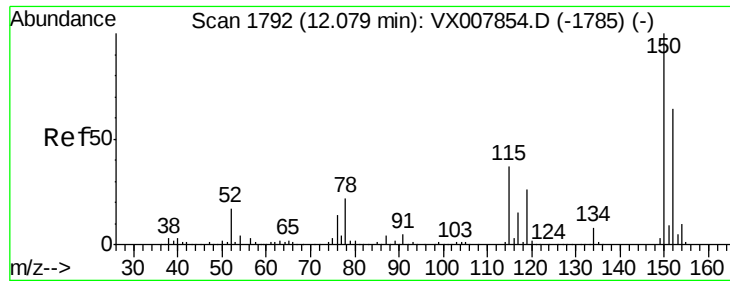


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB201-GW-700-702

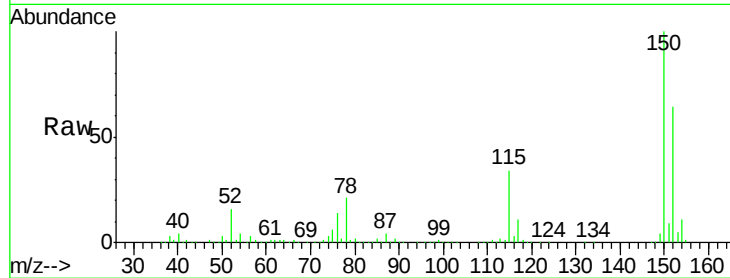
Tot Ion:152 Resp: 175298

Ion Ratio Lower Upper

152 100

115 54.9 38.6 115.7

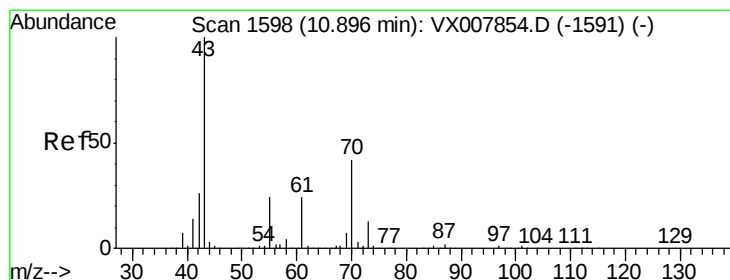
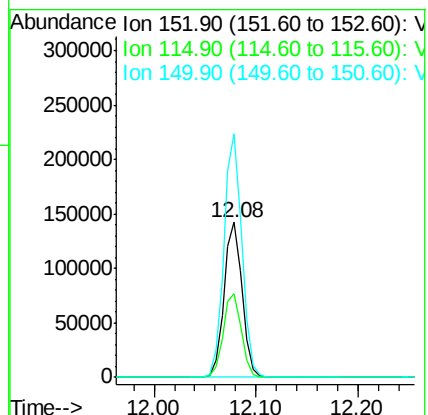
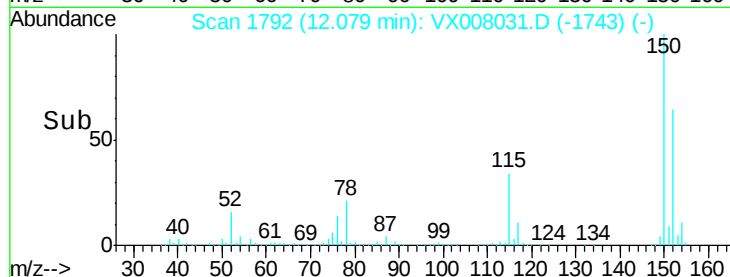
150 156.6 0.0 348.4



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: 0.271 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.02 min

Lab File: VX008031.D

Acq: 12 Mar 2019 21:53

Tgt Ion: 43 Resp: 1467

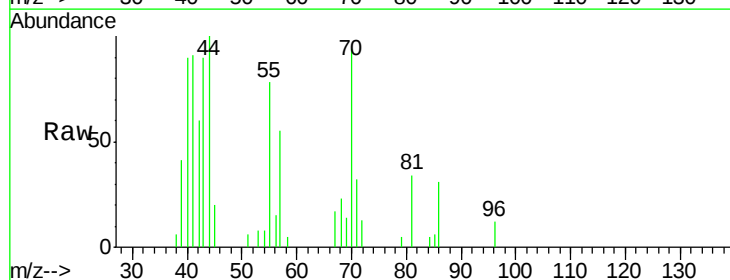
Ion Ratio Lower Upper

43 100

70 98.6 33.5 50.3#

55 83.4 19.2 28.8#

61 0.0 19.0 28.6#

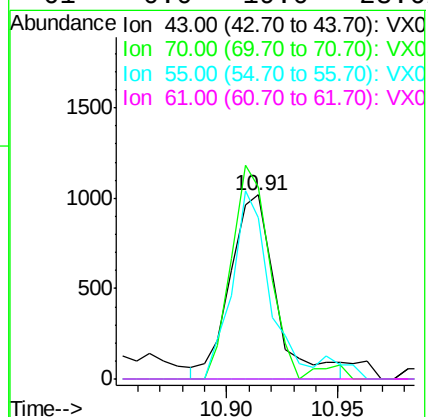
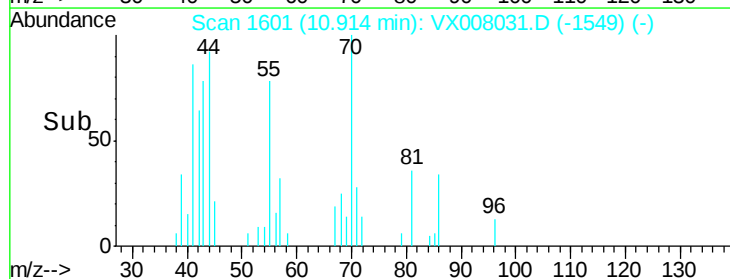


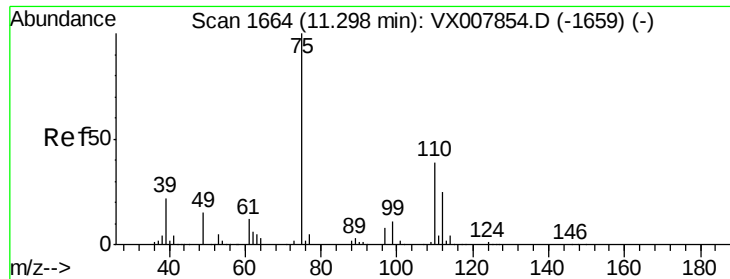
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

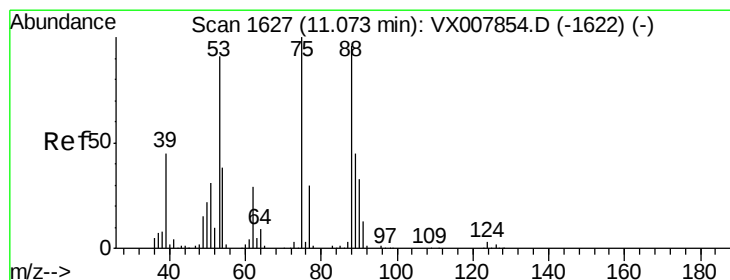
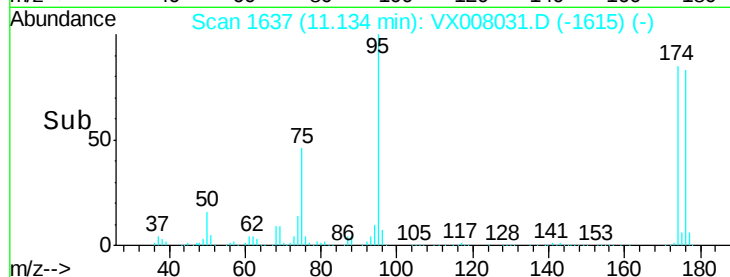
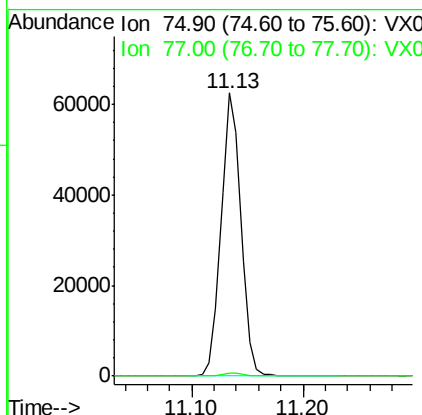
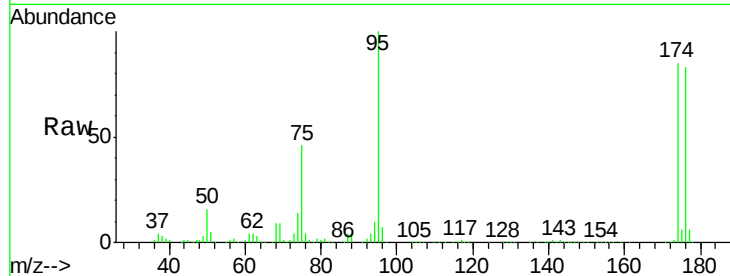




#76
 1,2,3-Trichloropropane
 Concen: 20.955 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008031.D
 Acq: 12 Mar 2019 21:53

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB201-GW-700-702

Tot Ion: 75 Resp: 77081
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.9 56.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.981 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008031.D
 Acq: 12 Mar 2019 21:53

Tgt Ion: 75 Resp: 77081
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.1 114.1#
 89 0.0 36.3 54.5#

