

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021119\
 Data File : VX007465.D
 Acq On : 11 Feb 2019 14:00
 Operator : JC/SP
 Sample : K1433-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY001IW064-190207

Quant Time: Feb 12 00:02:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	532989	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	821211	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	756708	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	367391	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	278518	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
35) Dibromofluoromethane	5.50	113	260443	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
50) Toluene-d8	8.71	98	968433	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
62) 4-Bromofluorobenzene	11.13	95	344123	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	

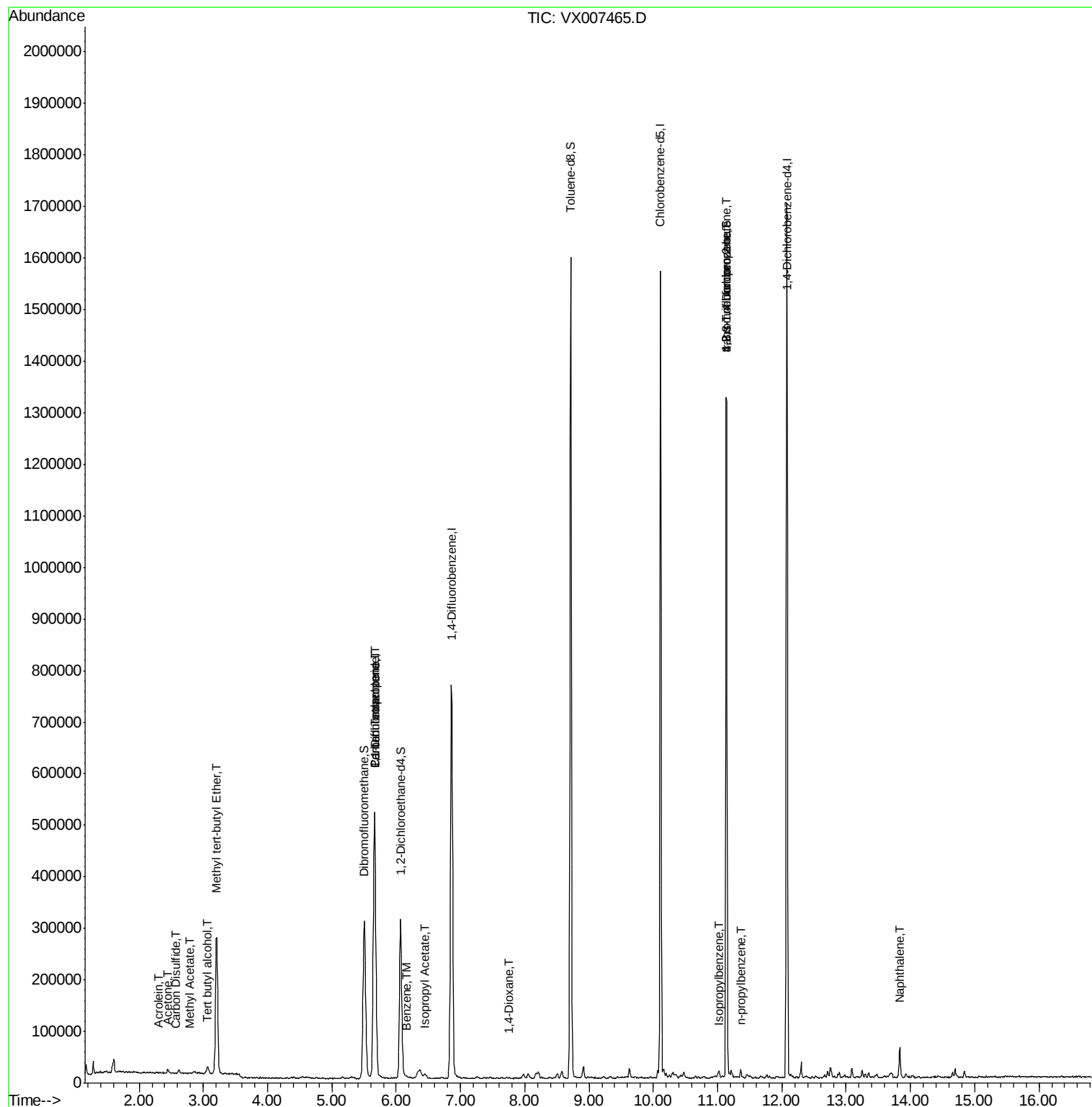
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	327	Below Cal		84
11) Tert butyl alcohol	3.07	59	17816	15.217	ug/l #	73
13) Acrolein	2.29	56	172	0.313	ug/l #	1
16) Acetone	2.45	43	8246	3.182	ug/l	95
17) Carbon Disulfide	2.57	76	1615	2.237	ug/l #	66
18) Methyl Acetate	2.79	43	1286	0.781	ug/l #	9
19) Methyl tert-butyl Ether	3.20	73	303413	18.403	ug/l	100
20) Methylene Chloride	2.85	84	1504	Below Cal	#	47
36) 1,1-Dichloropropene	5.66	75	32773	4.448	ug/l #	51
38) Carbon Tetrachloride	5.67	117	47246	6.609	ug/l #	18
40) Benzene	6.15	78	7301	0.336	ug/l #	81
43) Isopropyl Acetate	6.44	43	3426	0.298	ug/l #	14
49) 1,4-Dioxane	7.76	88	145	7.980	ug/l #	37
73) Isopropylbenzene	11.02	105	5401	0.216	ug/l	85
76) 1,2,3-Trichloropropane	11.13	75	162779	22.778	ug/l #	33
78) n-propylbenzene	11.36	91	7368	0.269	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	162779	68.680	ug/l #	9
95) Naphthalene	13.83	128	39366	1.589	ug/l #	96

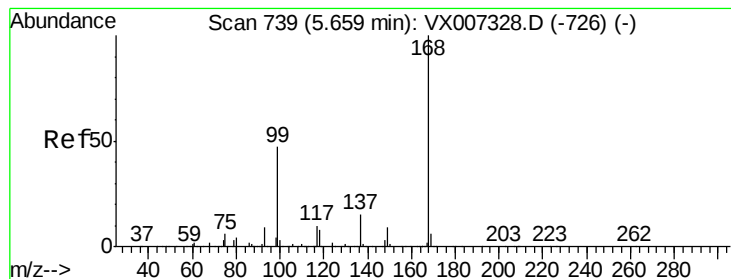
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

MSVOA_X

ClientSampleId :

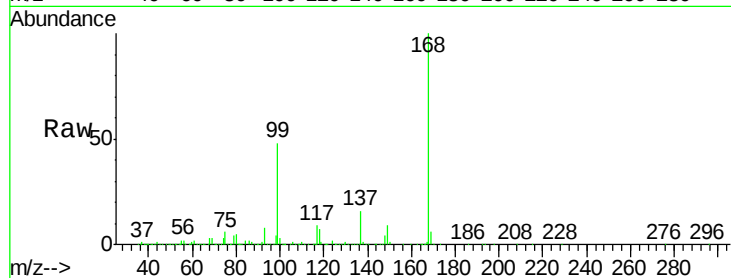
KY001IW064-190207

Tot Ion:168 Resp: 532989

Ion Ratio Lower Upper

168 100

99 48.1 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

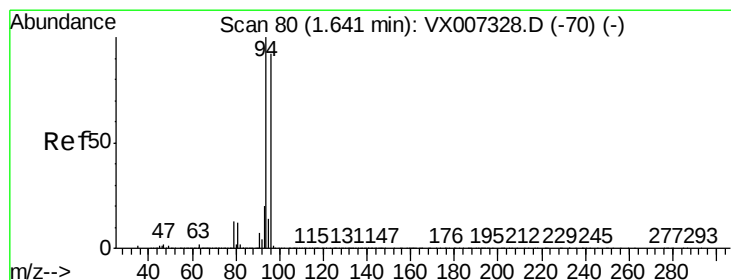
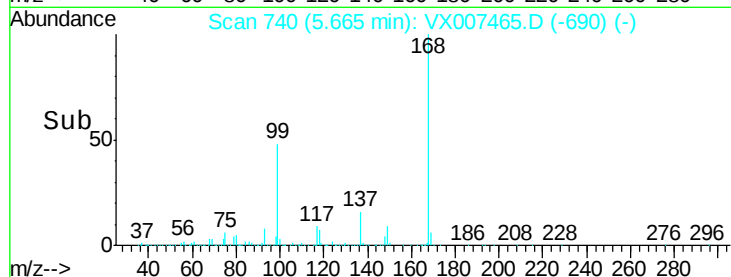
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007465.D

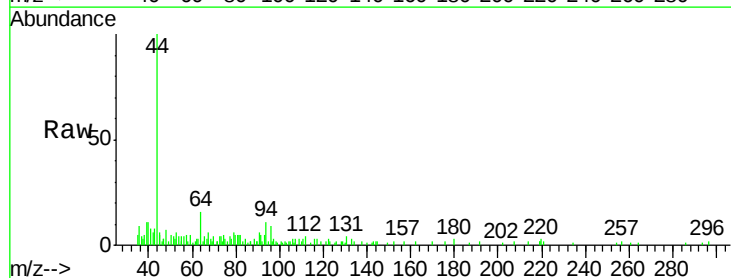
Acq: 11 Feb 2019 14:00

Tgt Ion: 94 Resp: 327

Ion Ratio Lower Upper

94 100

96 76.8 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

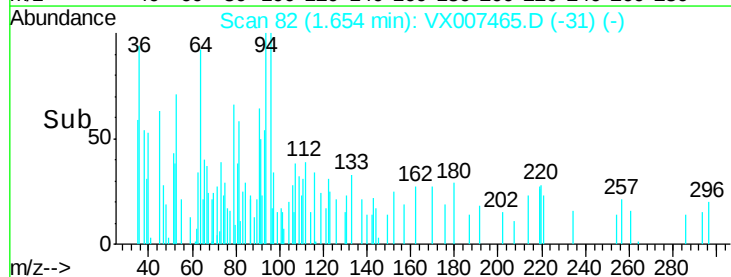
300

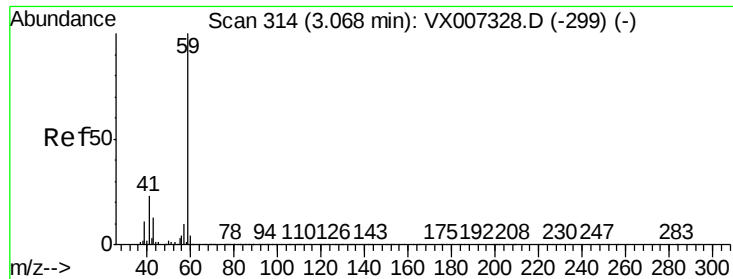
200

100

0

Time--> 1.62 1.64 1.66



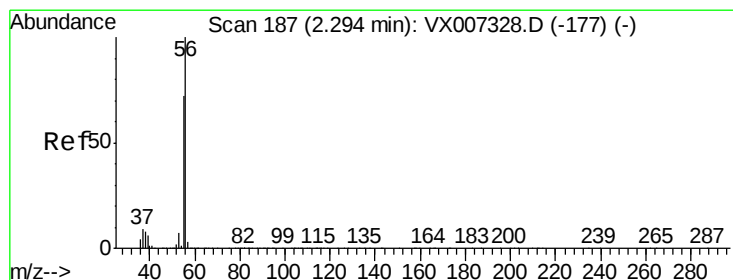
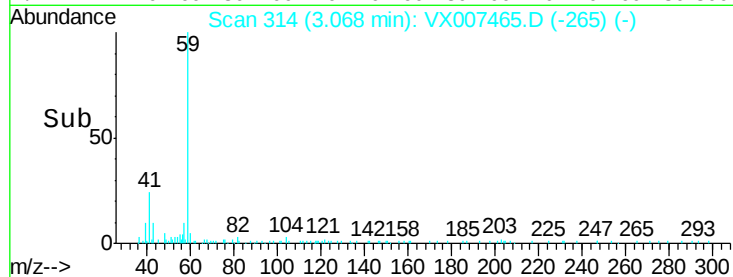
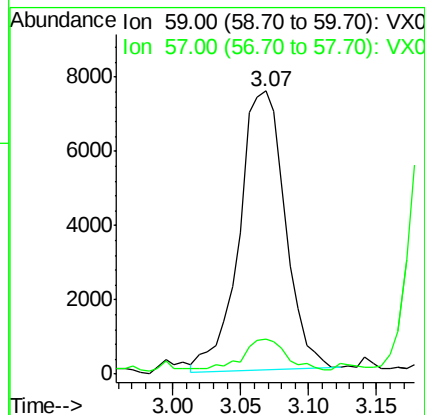
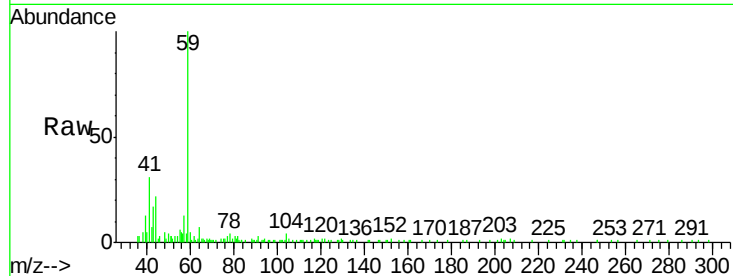


#11

Tert butyl alcohol
Concen: 15.217 ug/l
RT: 3.07 min Scan# 314
Delta R.T. 0.00 min
Lab File: VX007465.D
Acq: 11 Feb 2019 14:00

Instrument :
MSVOA_X
ClientSampleId :
KY001IW064-190207

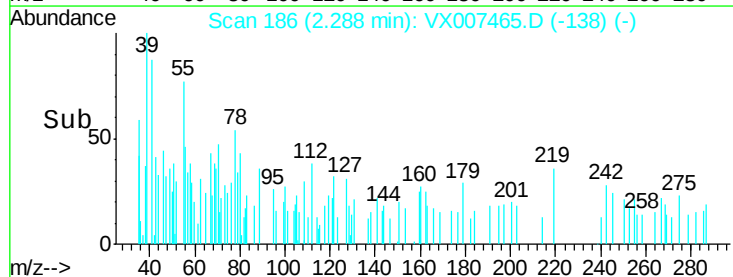
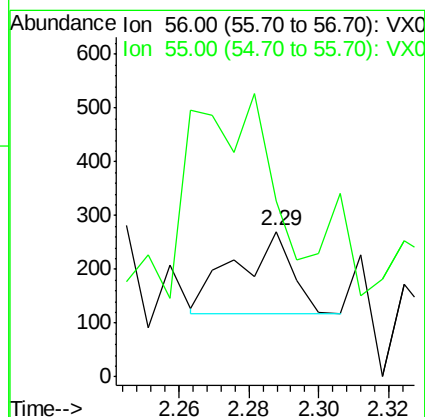
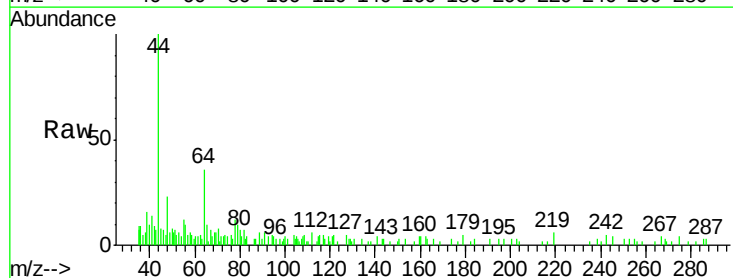
Tot Ion: 59 Resp: 17816
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#

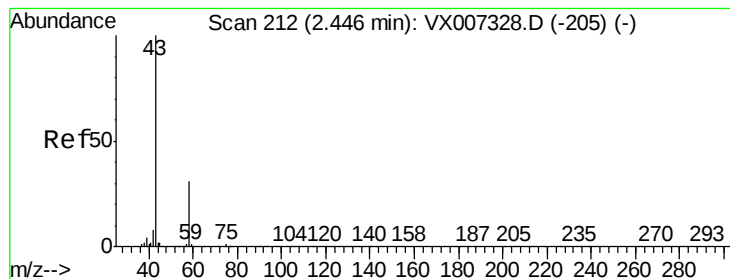


#13

Acrolein
Concen: 0.313 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX007465.D
Acq: 11 Feb 2019 14:00

Tgt Ion: 56 Resp: 172
Ion Ratio Lower Upper
56 100
55 405.8 56.9 85.3#





#16

Acetone

Concen: 3.182 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

MSVOA_X

ClientSampleId :

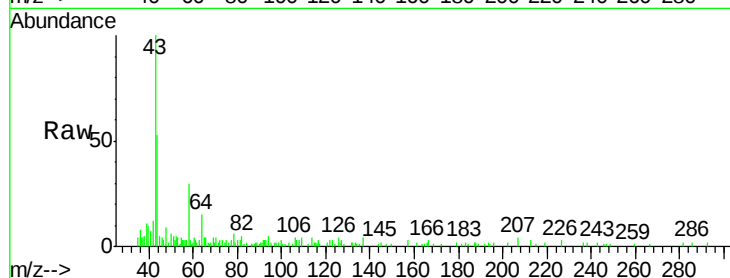
KY001IW064-190207

Tot Ion: 43 Resp: 8246

Ion Ratio Lower Upper

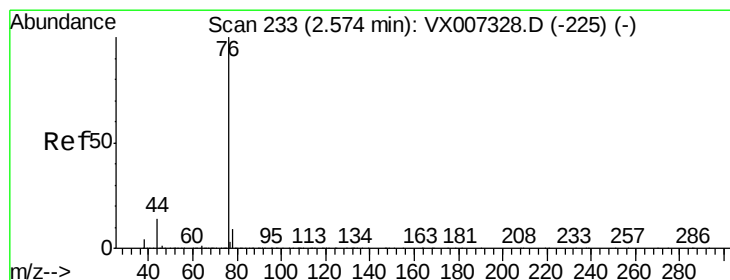
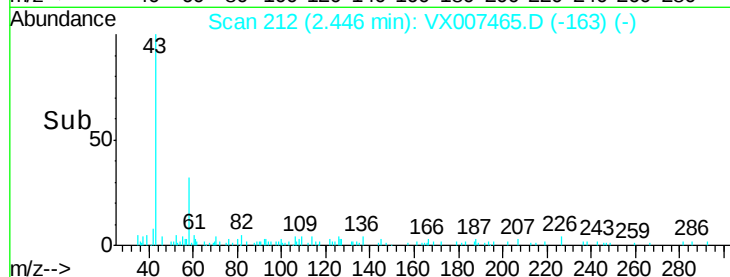
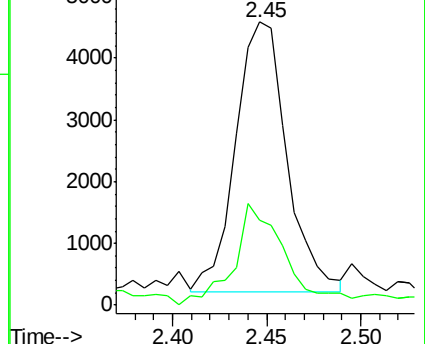
43 100

58 28.2 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 2.237 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007465.D

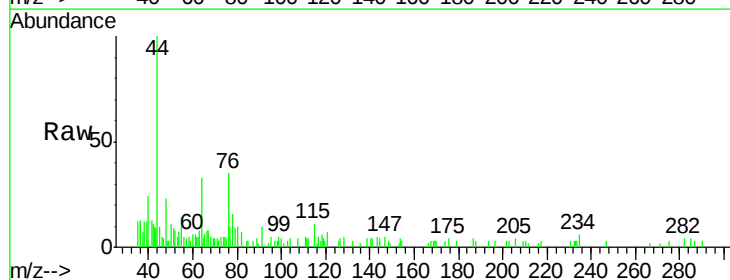
Acq: 11 Feb 2019 14:00

Tgt Ion: 76 Resp: 1615

Ion Ratio Lower Upper

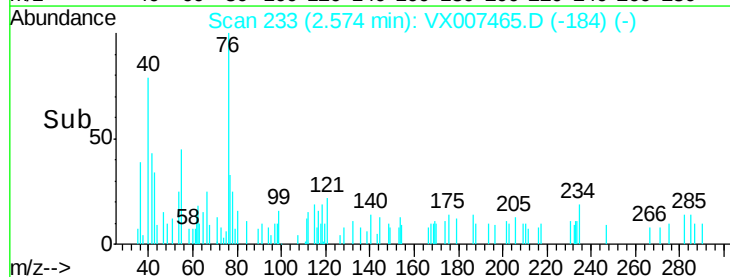
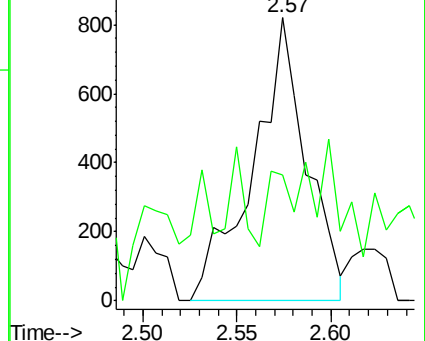
76 100

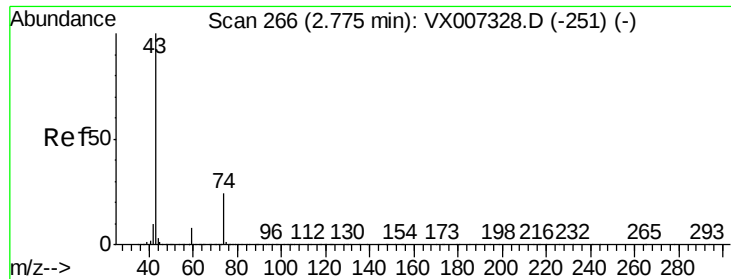
78 21.3 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

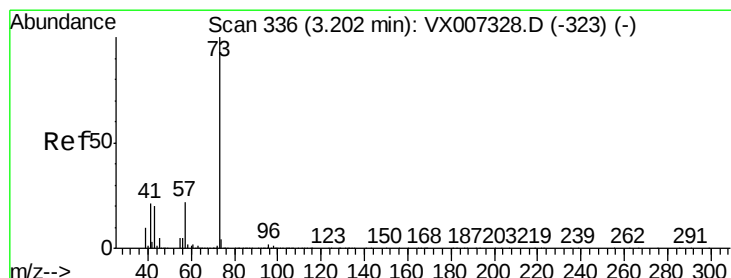
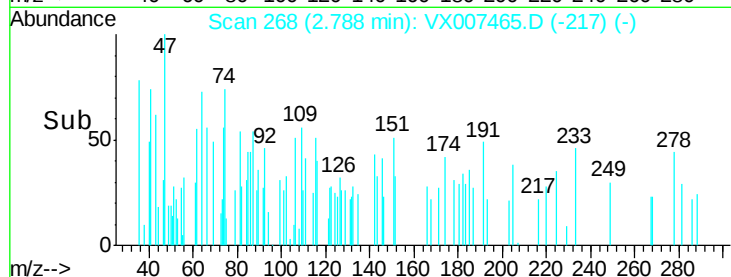
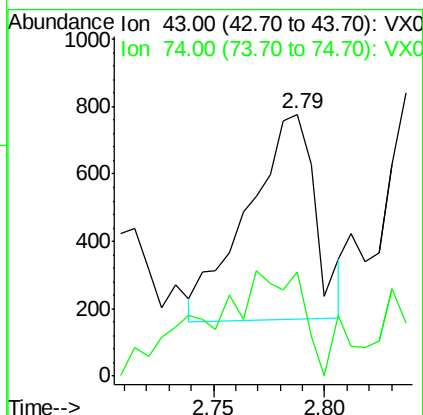
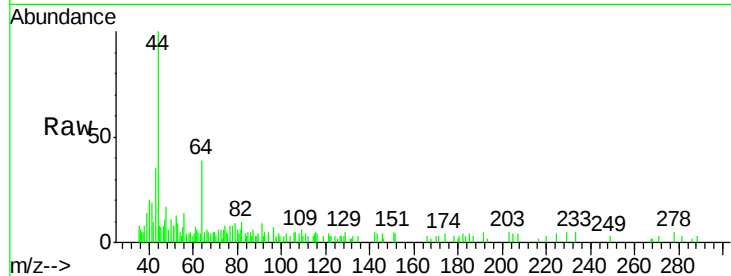




#18
Methyl Acetate
Concen: 0.781 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX007465.D
Acq: 11 Feb 2019 14:00

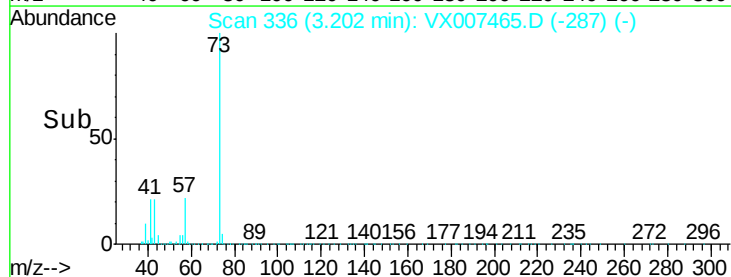
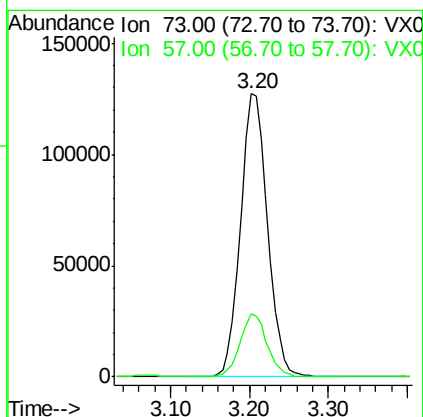
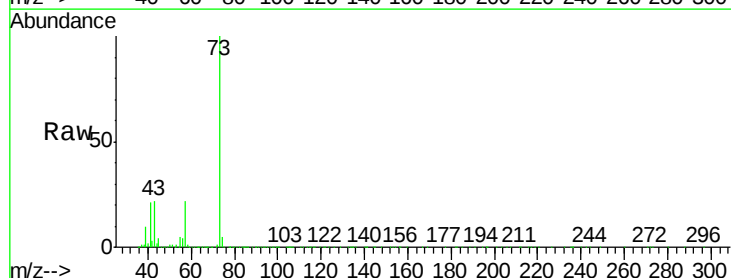
Instrument :
MSVOA_X
ClientSampleId :
KY001IW064-190207

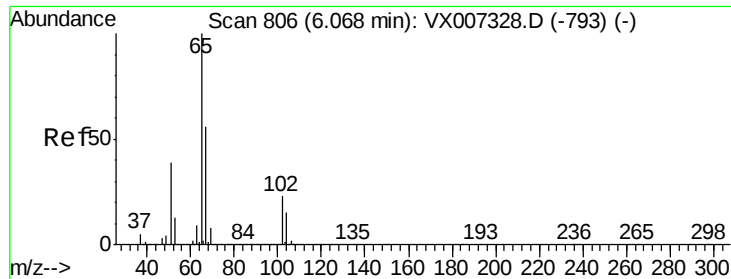
Tot Ion: 43 Resp: 1286
Ion Ratio Lower Upper
43 100
74 69.2 19.4 29.2#



#19
Methyl tert-butyl Ether
Concen: 18.403 ug/l
RT: 3.20 min Scan# 336
Delta R.T. 0.00 min
Lab File: VX007465.D
Acq: 11 Feb 2019 14:00

Tgt Ion: 73 Resp: 303413
Ion Ratio Lower Upper
73 100
57 22.1 17.8 26.8





#33

1,2-Dichloroethane-d4

Concen: 49.232 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

MSVOA_X

ClientSampleId :

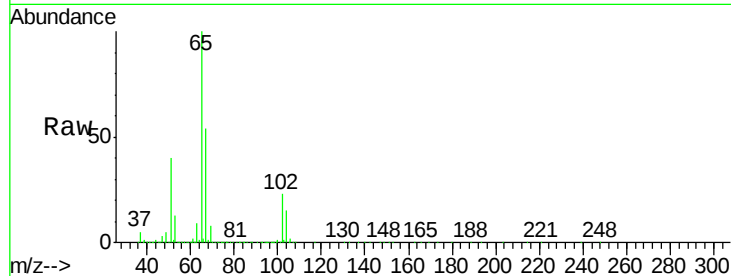
KY001IW064-190207

Tot Ion: 65 Resp: 278518

Ion Ratio Lower Upper

65 100

67 53.7 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

120000

100000

80000

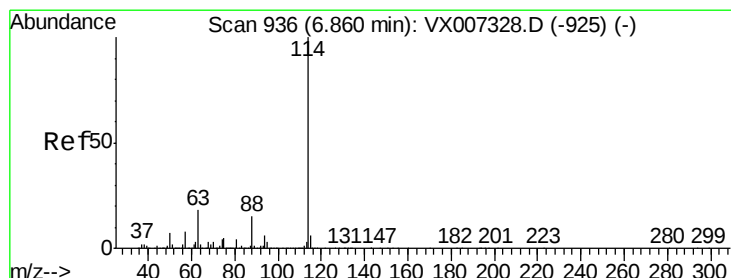
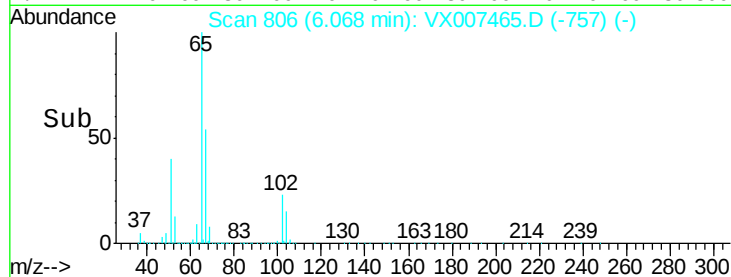
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

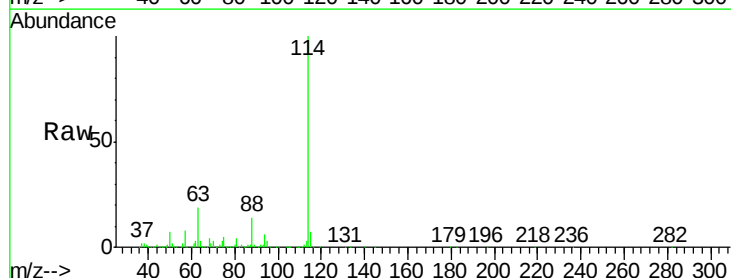
Tgt Ion: 114 Resp: 821211

Ion Ratio Lower Upper

114 100

63 18.8 0.0 35.6

88 14.5 0.0 29.6



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

6.86

400000

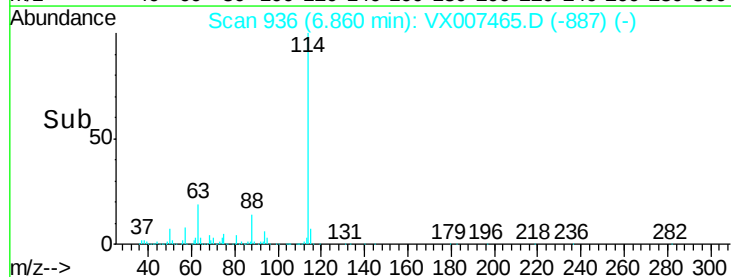
300000

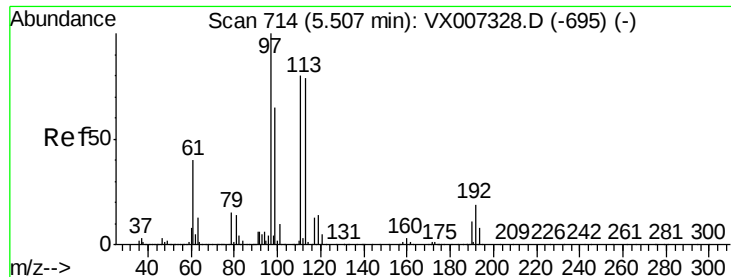
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 48.742 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

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ClientSampleId :

KY001IW064-190207

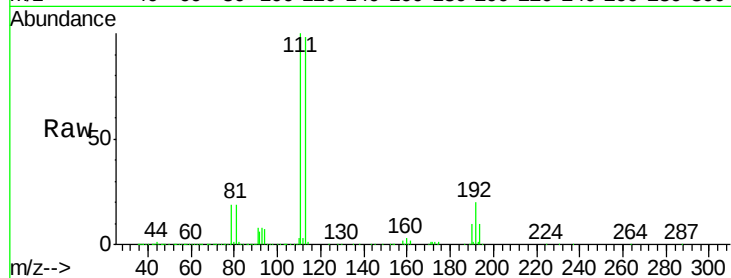
Tot Ion:113 Resp: 260443

Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.8

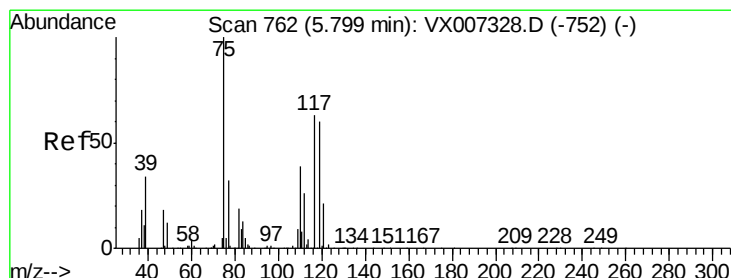
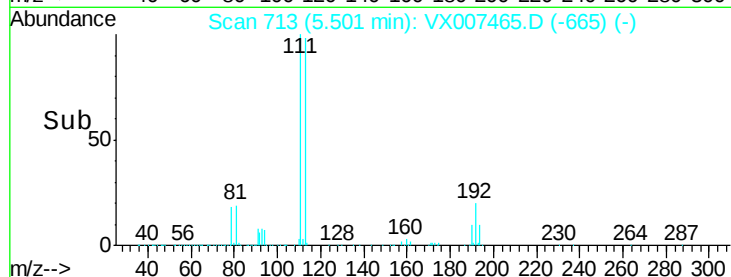
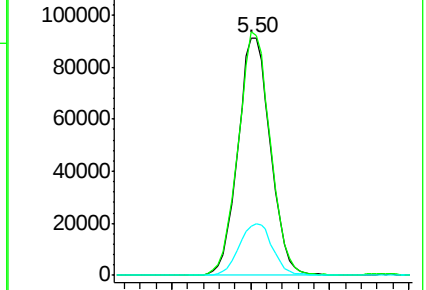
192 22.4 18.5 27.7



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: 4.448 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

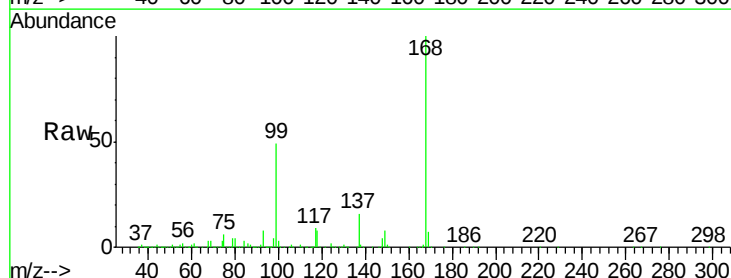
Tgt Ion: 75 Resp: 32773

Ion Ratio Lower Upper

75 100

110 11.5 20.0 59.9#

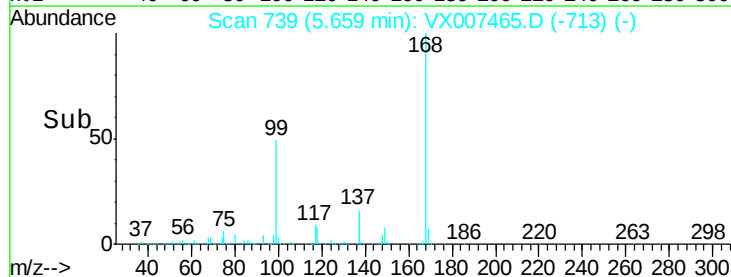
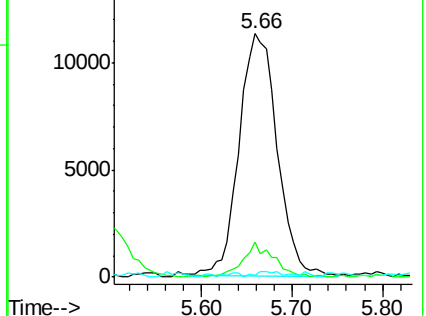
77 1.6 24.7 37.1#

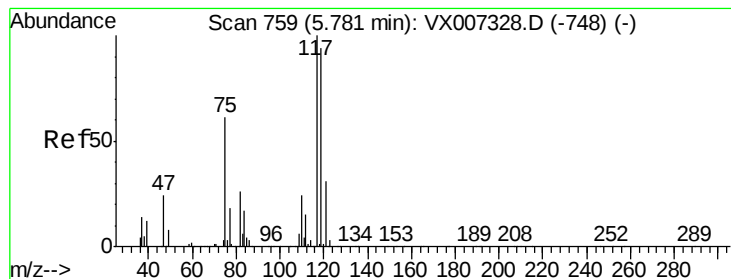


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.609 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

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KY001IW064-190207

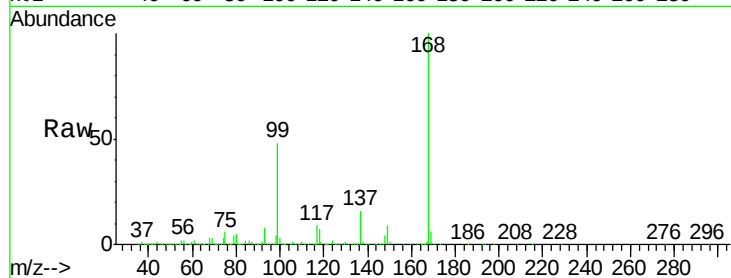
Tot Ion:117 Resp: 47246

Ion Ratio Lower Upper

117 100

119 6.7 75.3 112.9#

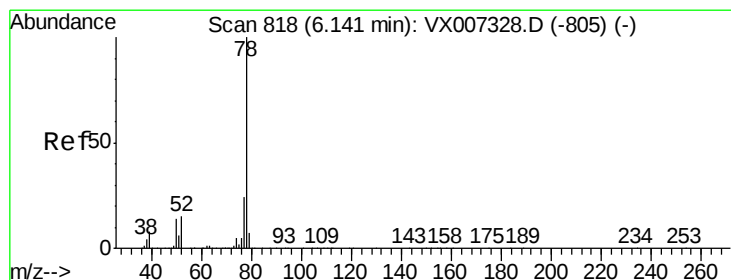
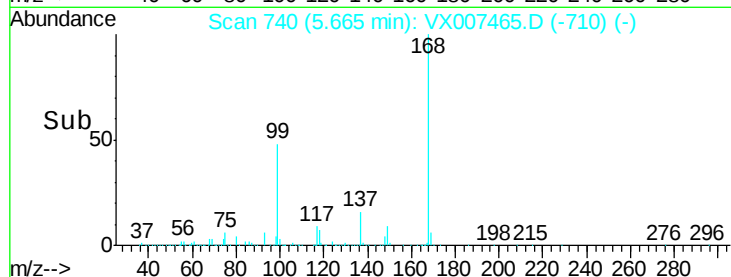
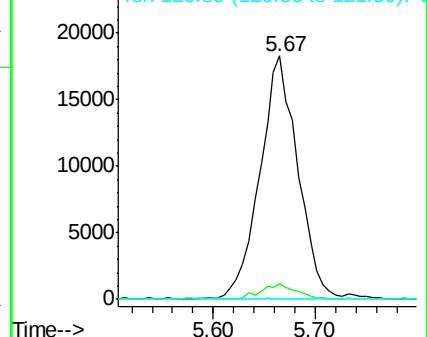
121 0.2 25.0 37.4#



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



#40

Benzene

Concen: 0.336 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX007465.D

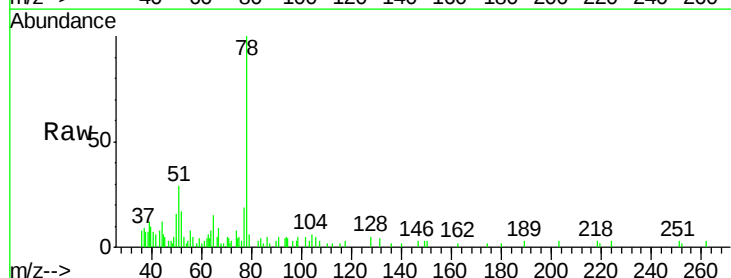
Acq: 11 Feb 2019 14:00

Tgt Ion: 78 Resp: 7301

Ion Ratio Lower Upper

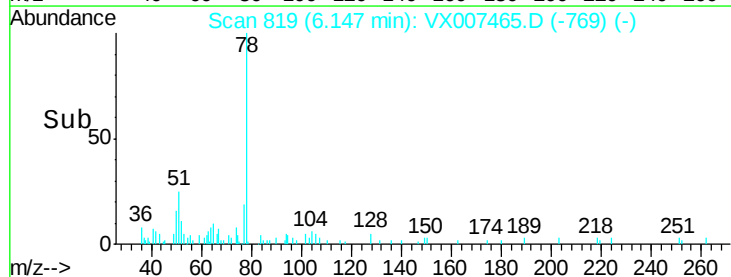
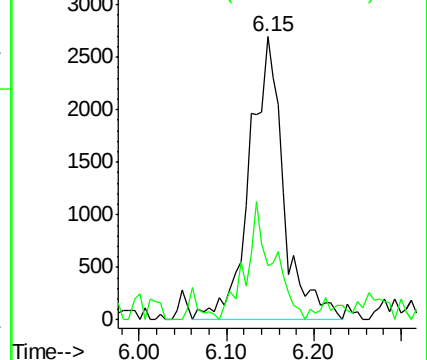
78 100

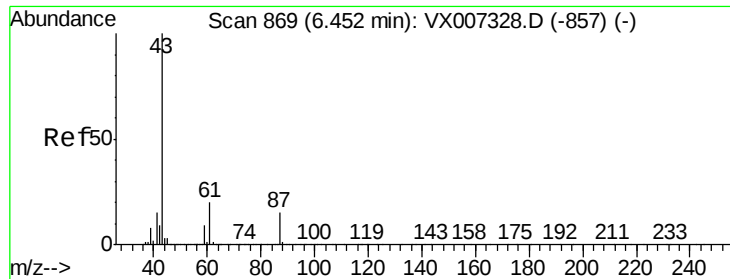
77 14.5 19.3 28.9#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 0.298 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

MSVOA_X

ClientSampleId :

KY001IW064-190207

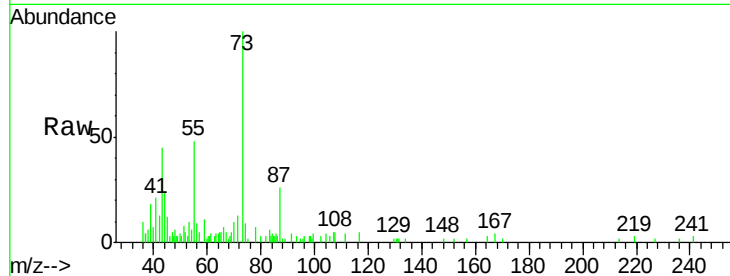
Tot Ion: 43 Resp: 3426

Ion Ratio Lower Upper

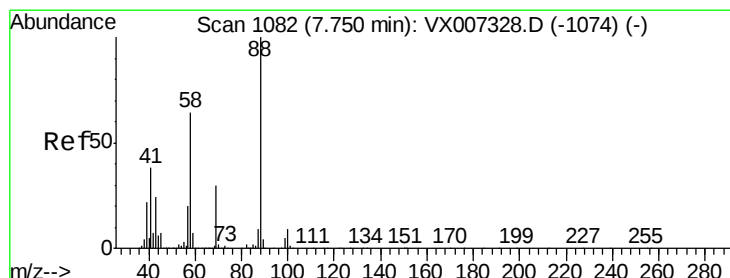
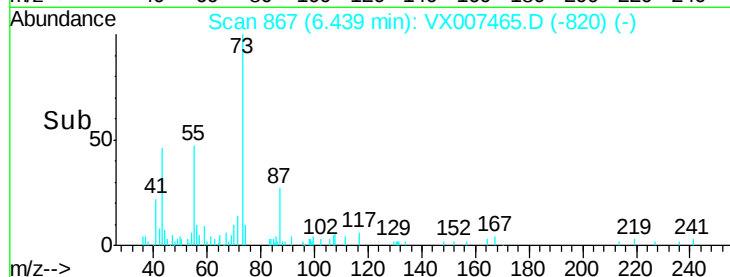
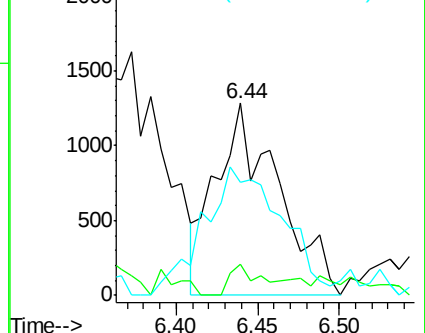
43 100

61 7.2 16.1 24.1#

87 83.2 11.5 17.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#49

1,4-Dioxane

Concen: 7.980 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

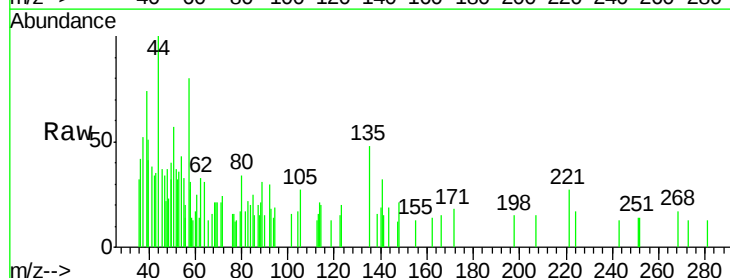
Tgt Ion: 88 Resp: 145

Ion Ratio Lower Upper

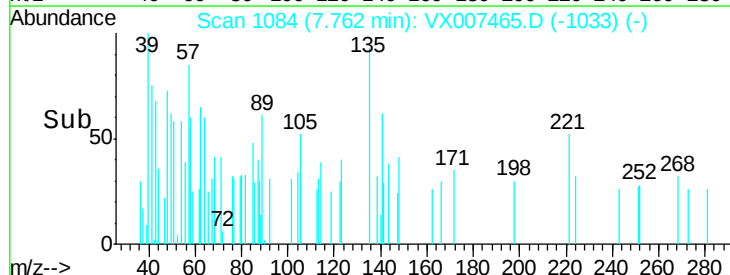
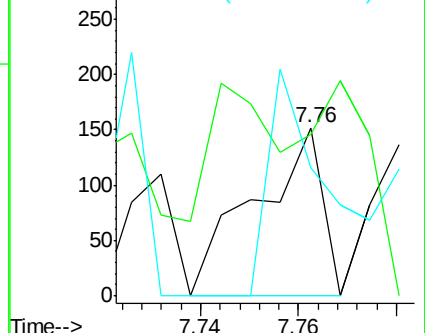
88 100

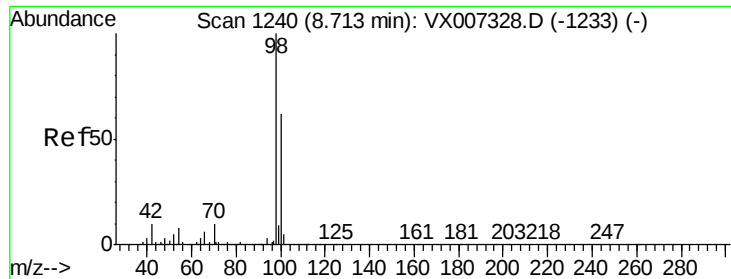
43 0.0 24.2 36.4#

58 118.6 53.0 79.4#



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: 48.850 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

MSVOA_X

ClientSampleId :

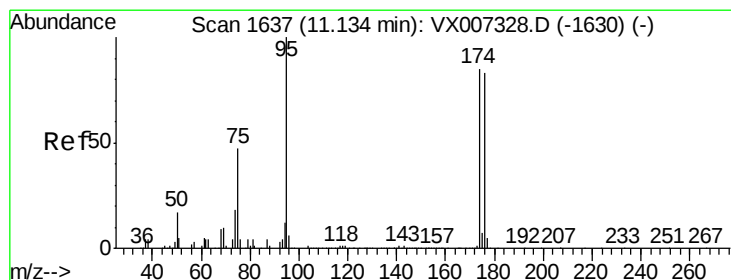
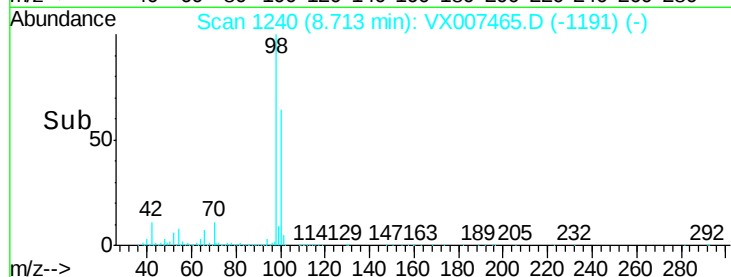
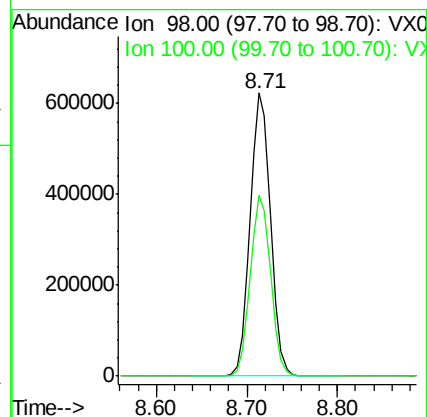
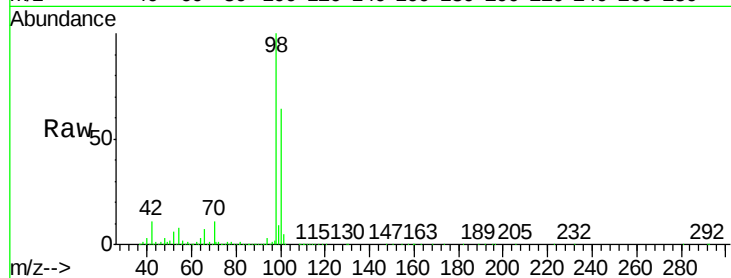
KY001IW064-190207

Tot Ion: 98 Resp: 968433

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 47.544 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

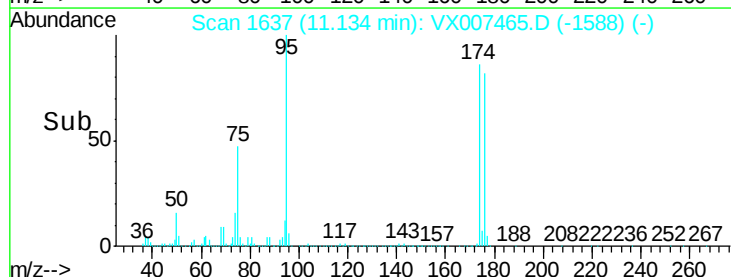
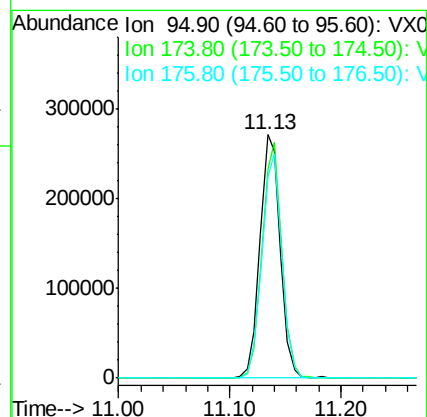
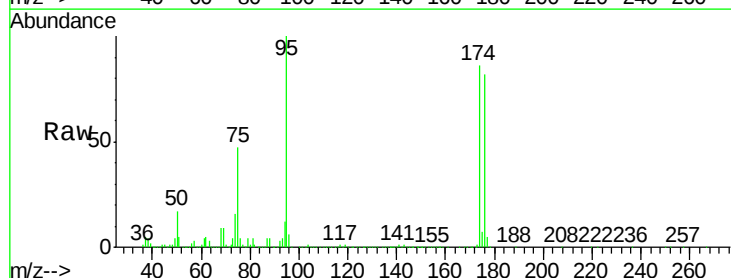
Tgt Ion: 95 Resp: 344123

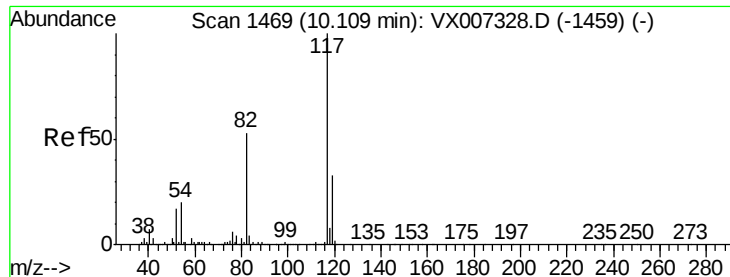
Ion Ratio Lower Upper

95 100

174 95.1 0.0 189.2

176 91.2 0.0 186.2

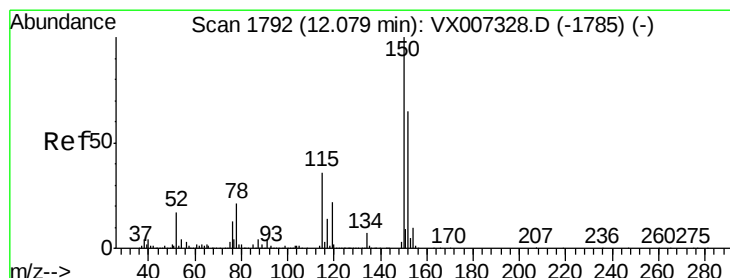
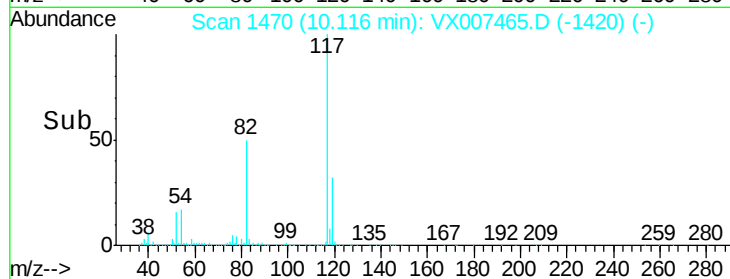
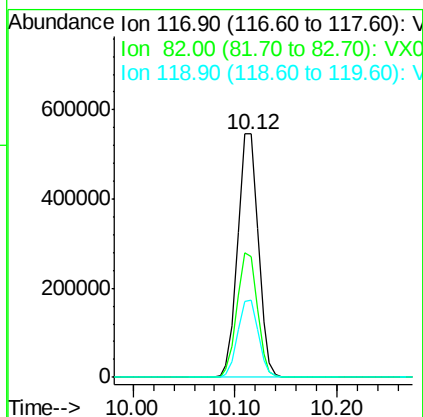
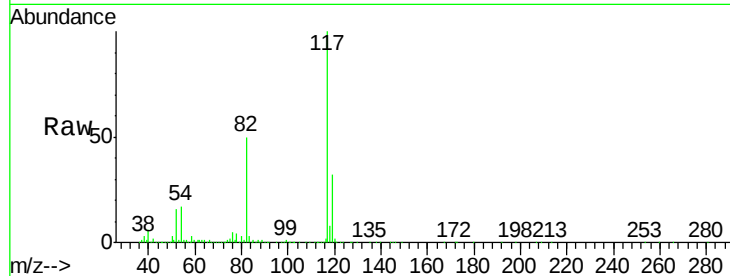




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007465.D
Acq: 11 Feb 2019 14:00

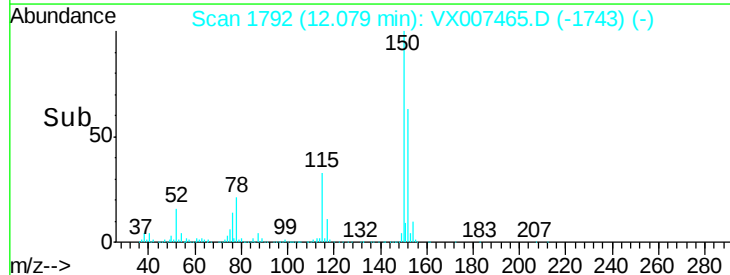
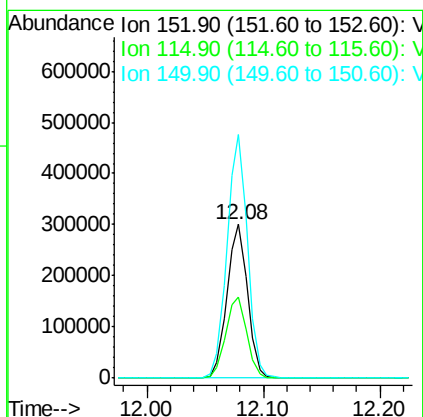
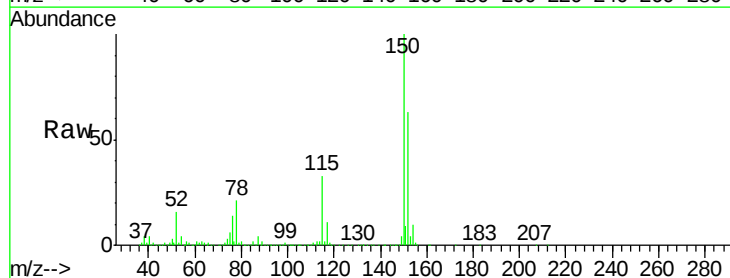
Instrument :
MSVOA_X
ClientSampleId :
KY001IW064-190207

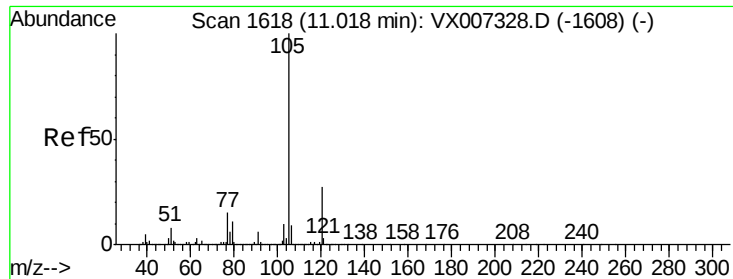
Tot Ion	Ratio	Lower	Upper
117	100		
82	49.8	42.1	63.1
119	31.8	26.5	39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007465.D
Acq: 11 Feb 2019 14:00

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.2	38.0	114.0
150	157.4	0.0	346.4





#73

Isopropylbenzene

Concen: 0.216 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

MSVOA_X

ClientSampleId :

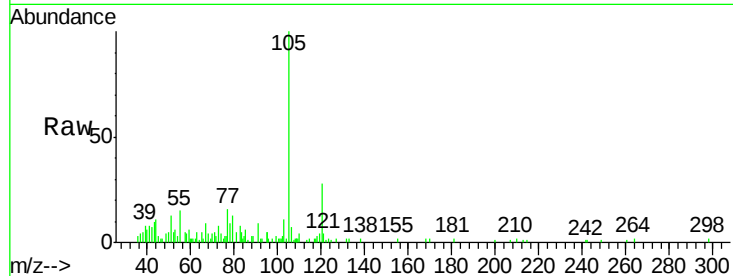
KY001IW064-190207

Tot Ion:105 Resp: 5401

Ion Ratio Lower Upper

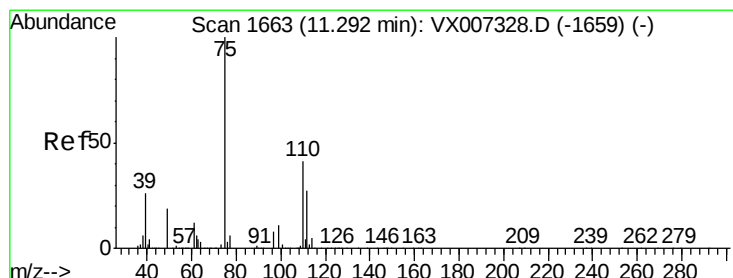
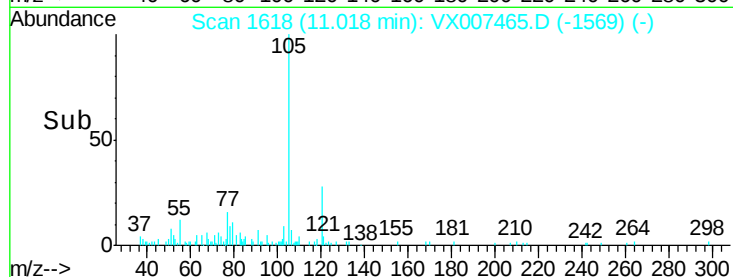
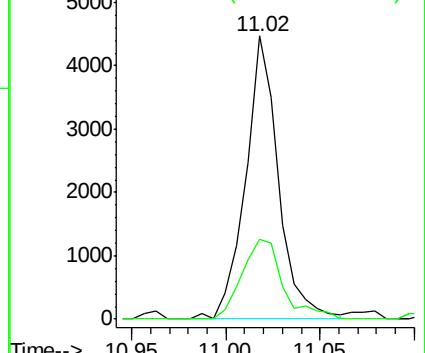
105 100

120 34.9 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 22.778 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007465.D

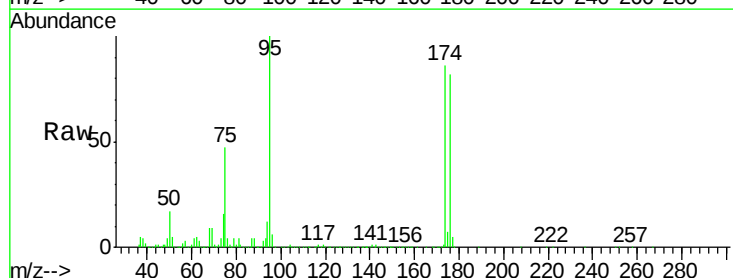
Acq: 11 Feb 2019 14:00

Tgt Ion: 75 Resp: 162779

Ion Ratio Lower Upper

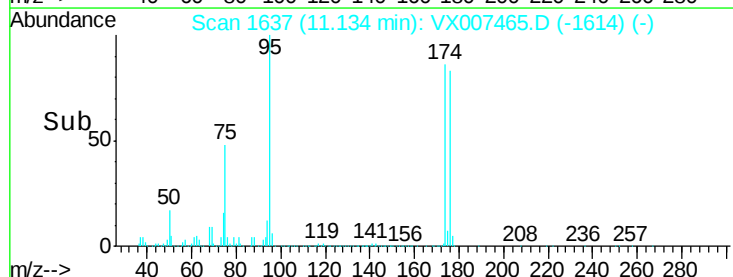
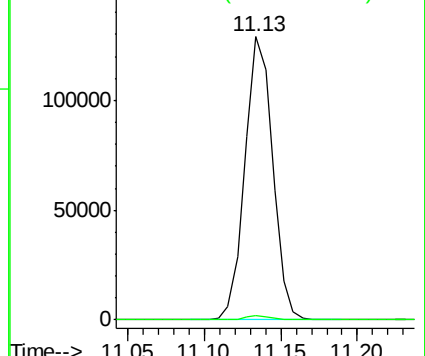
75 100

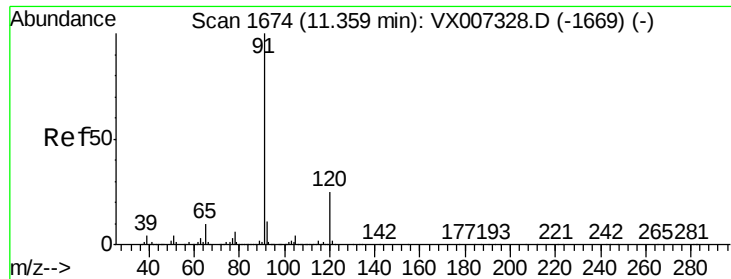
77 1.6 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 0.269 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

MSVOA_X

ClientSampleId :

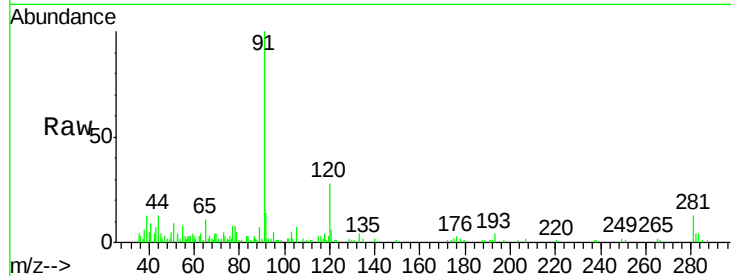
KY001IW064-190207

Tot Ion: 91 Resp: 7368

Ion Ratio Lower Upper

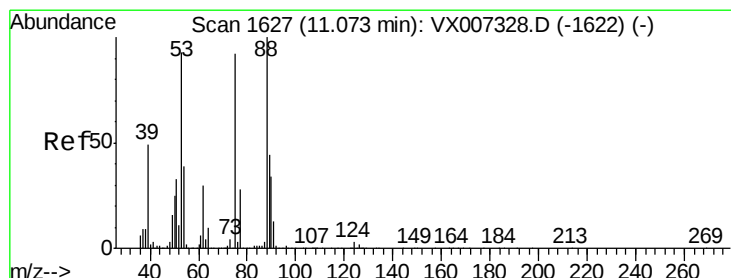
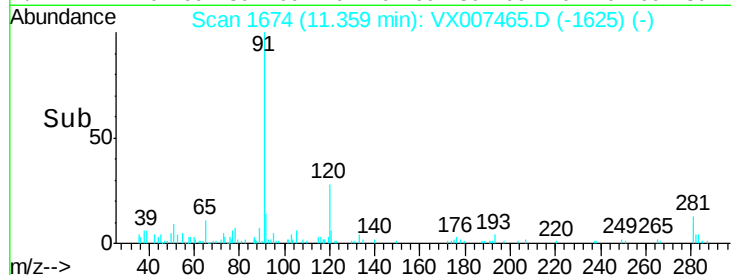
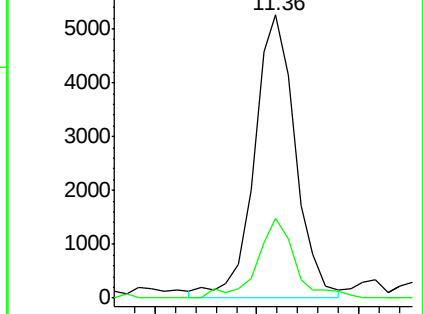
91 100

120 26.3 12.4 37.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 68.680 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

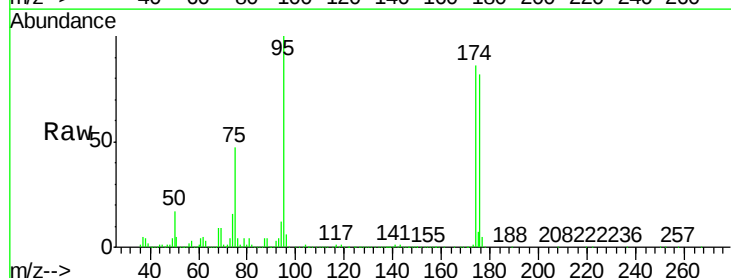
Tgt Ion: 75 Resp: 162779

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

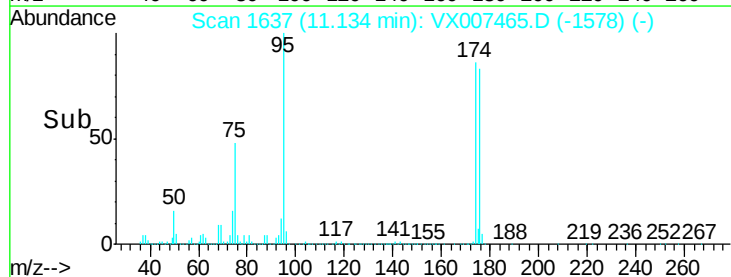
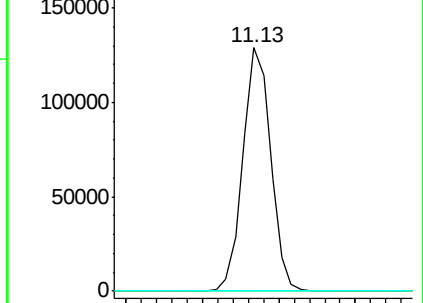
89 0.0 41.4 62.0#

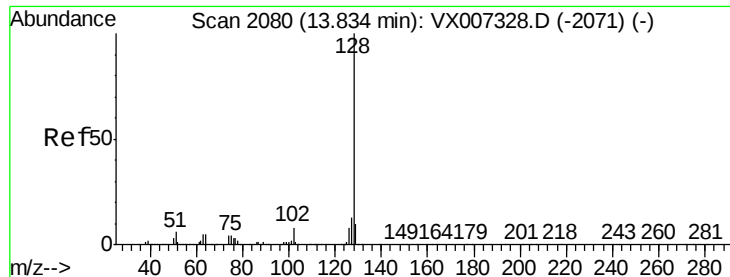


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 1.589 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007465.D

Acq: 11 Feb 2019 14:00

Instrument :

MSVOA_X

ClientSampleId :

KY001IW064-190207

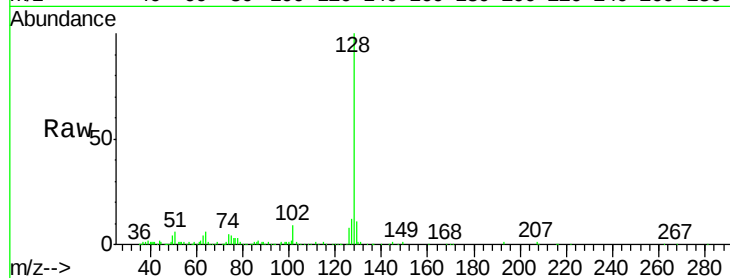
Tot Ion:128 Resp: 39366

Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

129 13.4 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

