

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021119\
 Data File : VX007471.D
 Acq On : 11 Feb 2019 16:39
 Operator : JC/SP
 Sample : K1433-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY001MW011-190207

Quant Time: Feb 12 00:04:45 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	5.66	168	546468	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	831269	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	783420	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	381506	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	281949	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	
35) Dibromofluoromethane	5.51	113	258157	47.73	ug/l	0.00
Spiked Amount			Recovery	=	95.46%	
50) Toluene-d8	8.71	98	993971	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
62) 4-Bromofluorobenzene	11.13	95	354990	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	

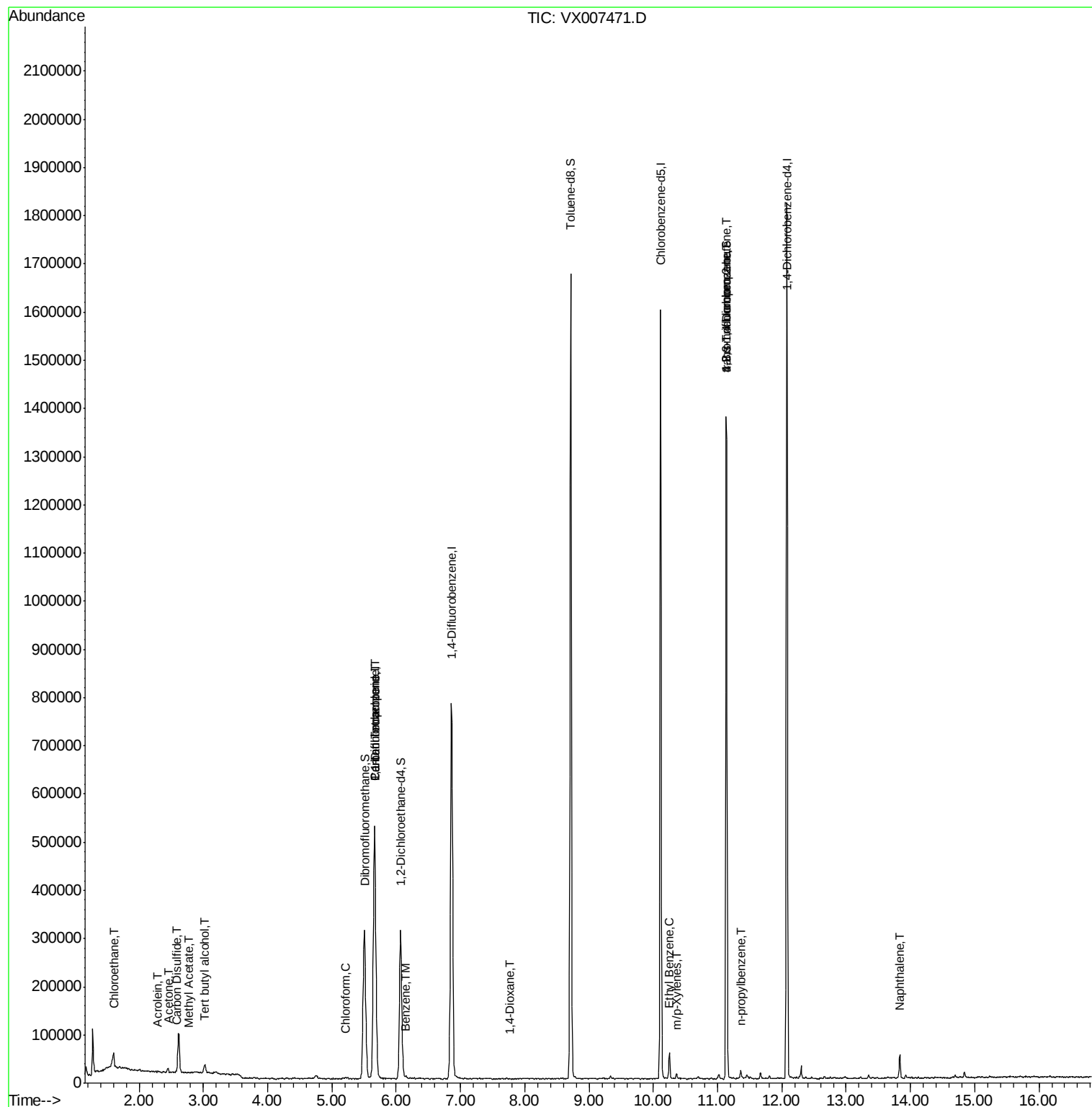
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	505	Below Cal	#	38
6) Chloroethane	1.60	64	19745	5.055	ug/l #	53
11) Tert butyl alcohol	3.02	59	12992	10.823	ug/l #	80
13) Acrolein	2.29	56	234	0.416	ug/l #	14
16) Acetone	2.45	43	10667	4.015	ug/l	91
17) Carbon Disulfide	2.58	76	2554	2.300	ug/l #	74
18) Methyl Acetate	2.78	43	1497	0.807	ug/l #	43
20) Methylene Chloride	2.86	84	1123	Below Cal	#	67
30) Chloroform	5.22	83	3424	0.365	ug/l	88
36) 1,1-Dichloropropene	5.66	75	33581	4.502	ug/l #	49
38) Carbon Tetrachloride	5.66	117	48793	6.743	ug/l #	16
40) Benzene	6.15	78	5915	0.269	ug/l	99
49) 1,4-Dioxane	7.76	88	24	7.059	ug/l #	1
67) Ethyl Benzene	10.25	91	32066	1.165	ug/l	94
68) m/p-Xylenes	10.36	106	3477	0.318	ug/l	75
76) 1,2,3-Trichloropropane	11.13	75	169105	22.788	ug/l #	32
78) n-propylbenzene	11.36	91	7001	0.246	ug/l	89
81) trans-1,4-Dichloro-2-buten	11.13	75	169105	68.708	ug/l #	9
95) Naphthalene	13.83	128	33566	1.305	ug/l	99

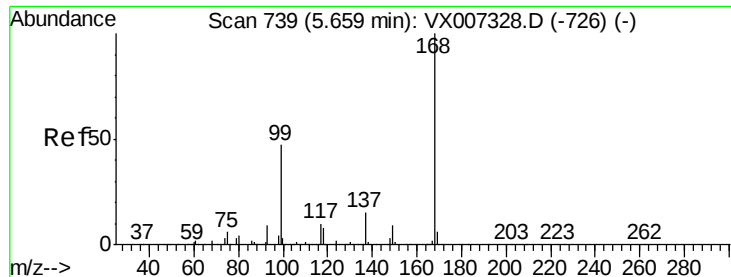
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

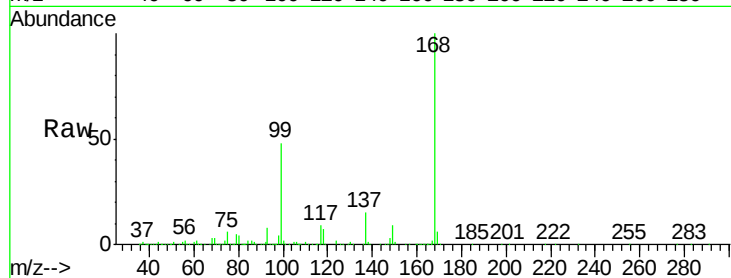
KY001MW011-190207

Tot Ion:168 Resp: 546468

Ion Ratio Lower Upper

168 100

99 47.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

200000

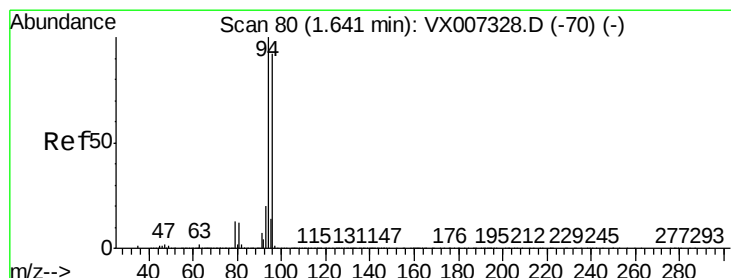
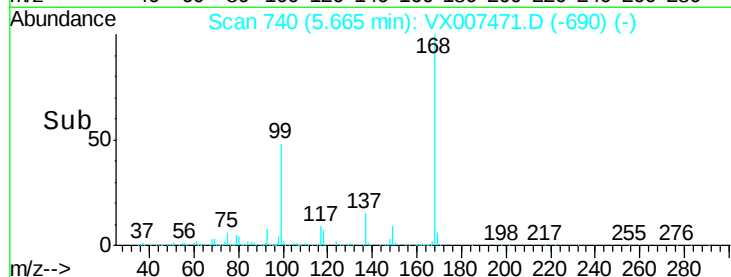
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 84

Delta R.T. 0.02 min

Lab File: VX007471.D

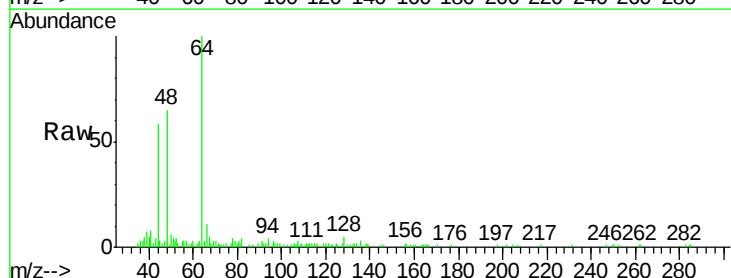
Acq: 11 Feb 2019 16:39

Tgt Ion: 94 Resp: 505

Ion Ratio Lower Upper

94 100

96 33.4 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.67

400

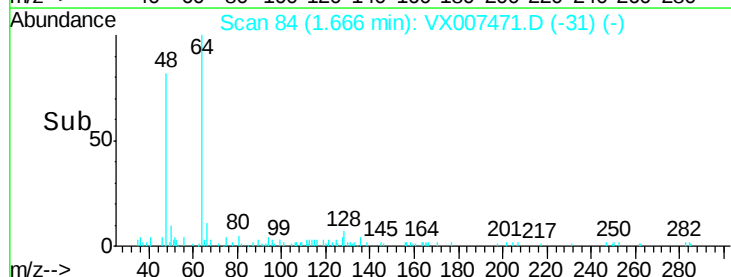
300

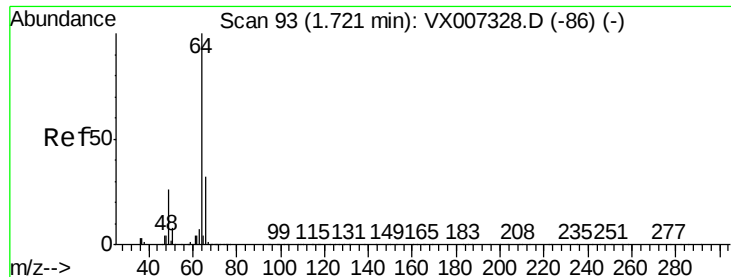
200

100

0

Time-->





#6

Chloroethane

Concen: 5.055 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

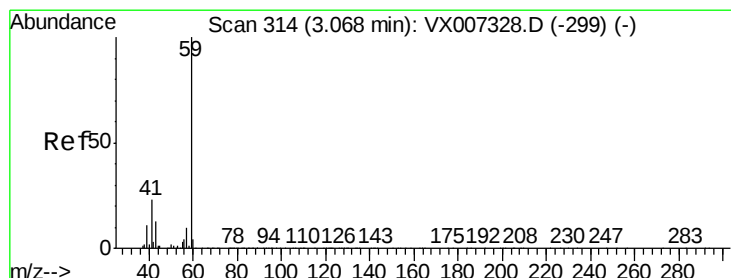
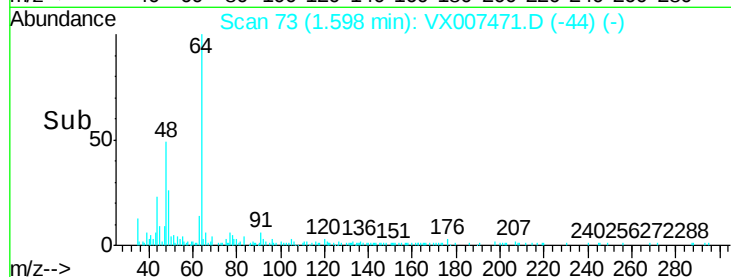
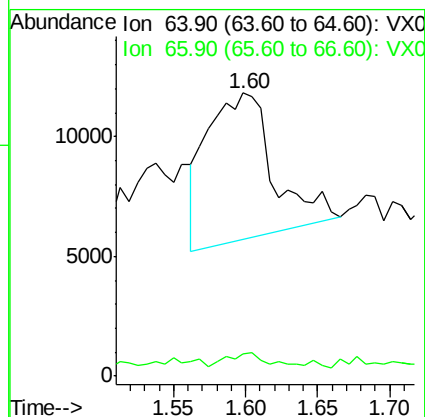
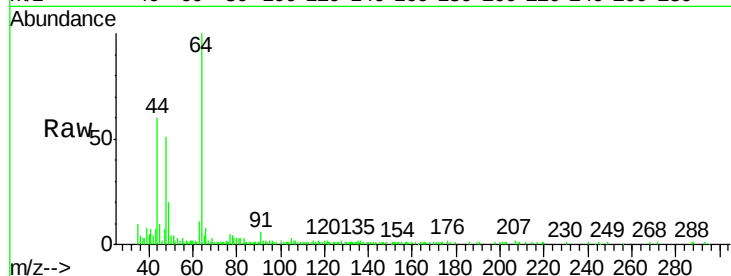
KY001MW011-190207

Tot Ion: 64 Resp: 19745

Ion Ratio Lower Upper

64 100

66 5.9 25.5 38.3#



#11

Tert butyl alcohol

Concen: 10.823 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX007471.D

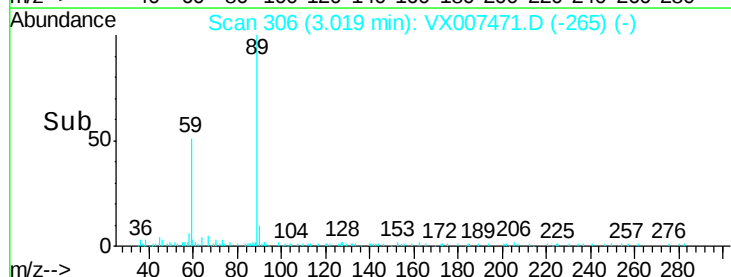
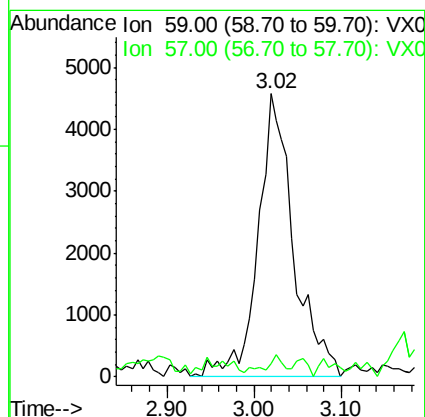
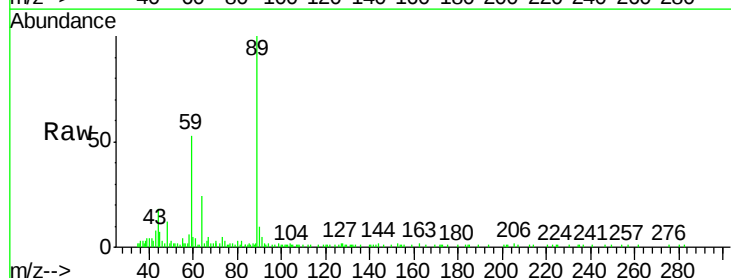
Acq: 11 Feb 2019 16:39

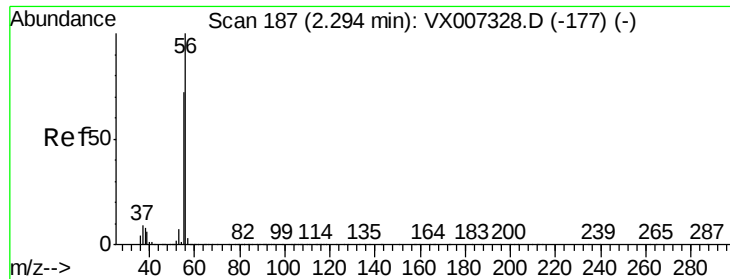
Tgt Ion: 59 Resp: 12992

Ion Ratio Lower Upper

59 100

57 2.7 8.1 12.1#

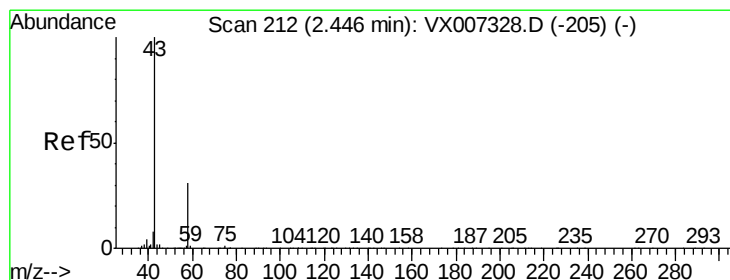
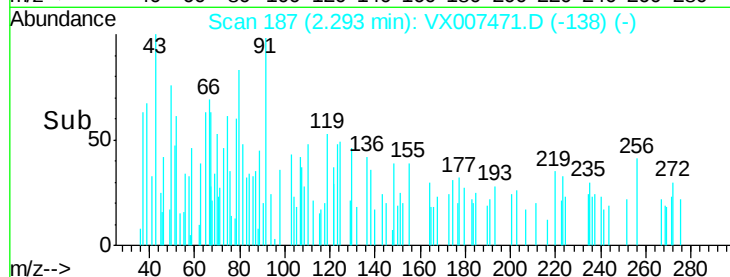
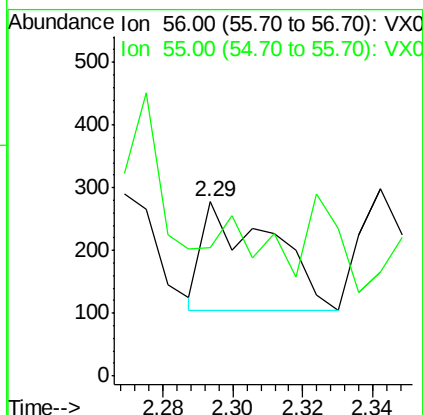
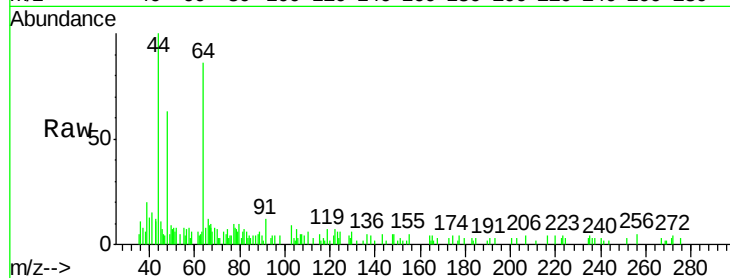




#13
Acrolein
Concen: 0.416 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX007471.D
Acq: 11 Feb 2019 16:39

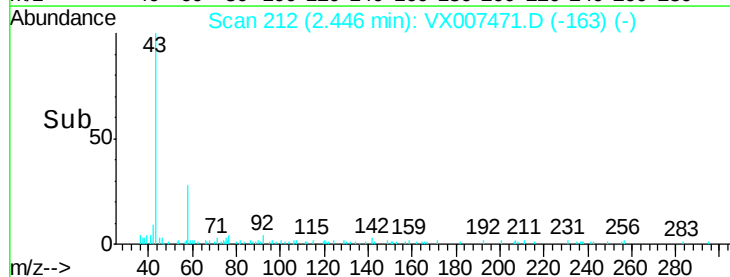
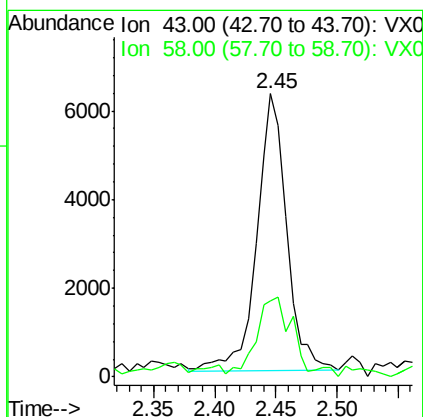
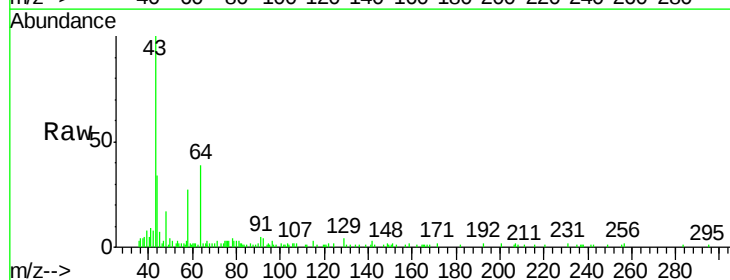
Instrument :
MSVOA_X
ClientSampleId :
KY001MW011-190207

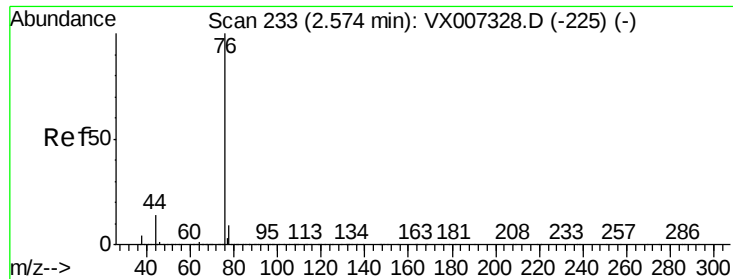
Tot Ion: 56 Resp: 234
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#



#16
Acetone
Concen: 4.015 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007471.D
Acq: 11 Feb 2019 16:39

Tgt Ion: 43 Resp: 10667
Ion Ratio Lower Upper
43 100
58 26.1 24.9 37.3





#17

Carbon Disulfide

Concen: 2.300 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

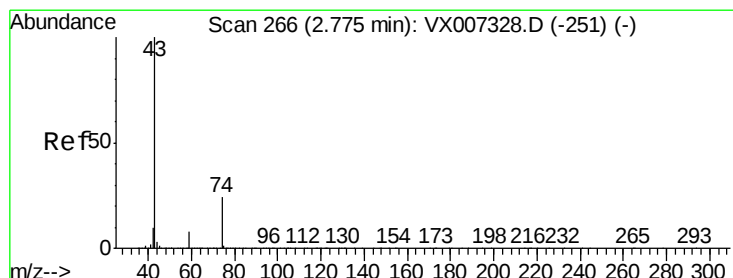
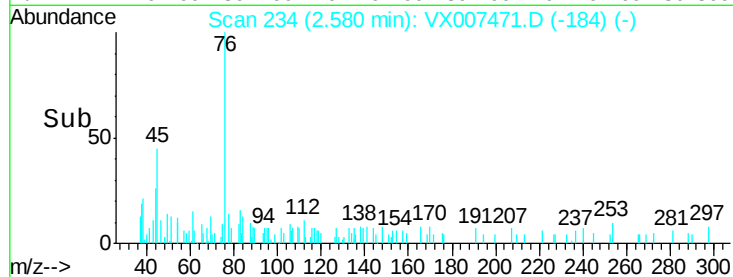
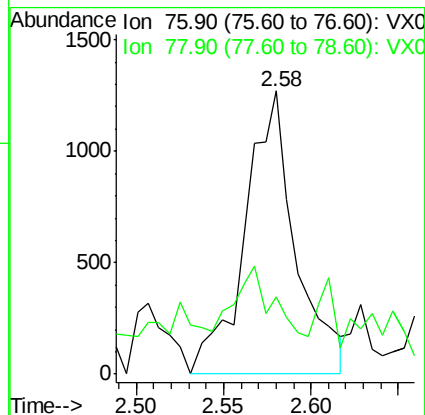
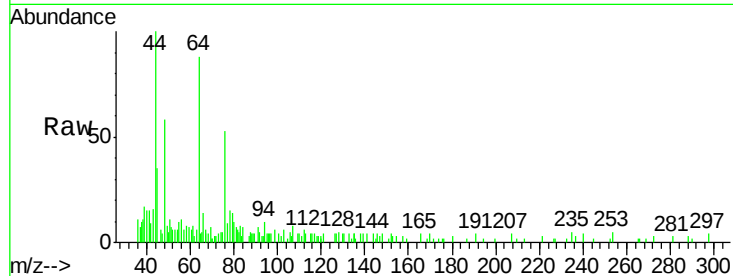
KY001MW011-190207

Tot Ion: 76 Resp: 2554

Ion Ratio Lower Upper

76 100

78 18.1 7.1 10.7#



#18

Methyl Acetate

Concen: 0.807 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007471.D

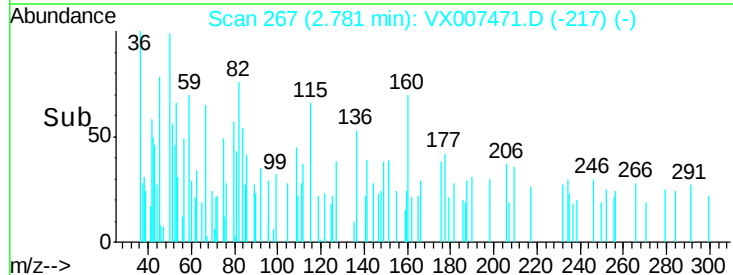
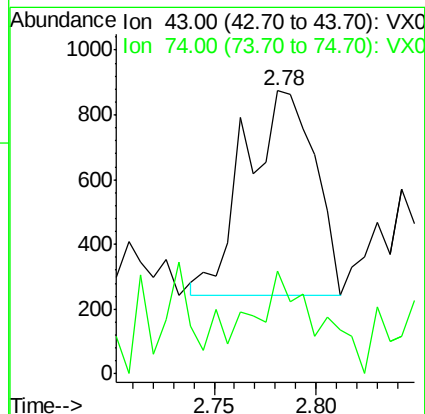
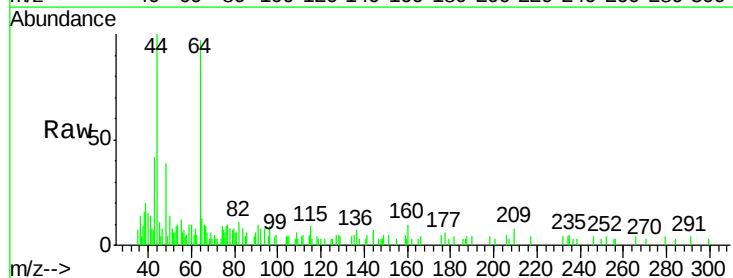
Acq: 11 Feb 2019 16:39

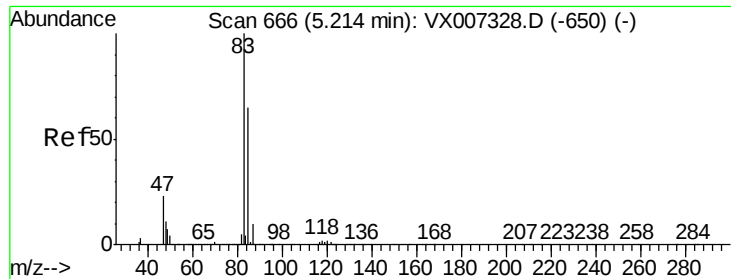
Tgt Ion: 43 Resp: 1497

Ion Ratio Lower Upper

43 100

74 52.7 19.4 29.2#





#30

Chloroform

Concen: 0.365 ug/l

RT: 5.22 min Scan# 667

Delta R.T. 0.01 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

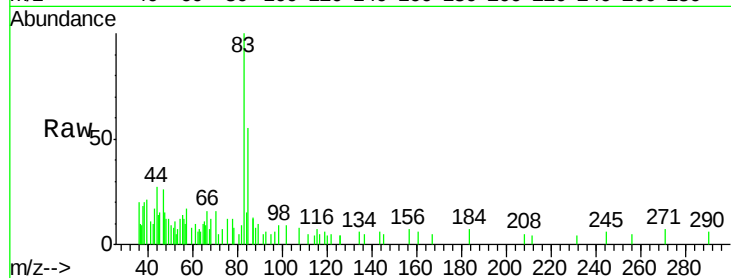
KY001MW011-190207

Tot Ion: 83 Resp: 3424

Ion Ratio Lower Upper

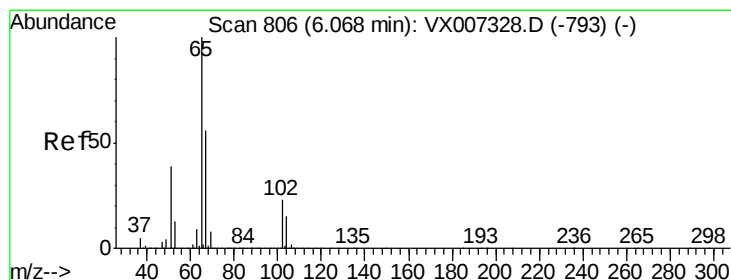
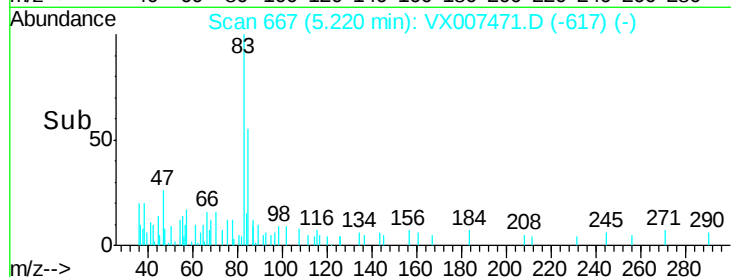
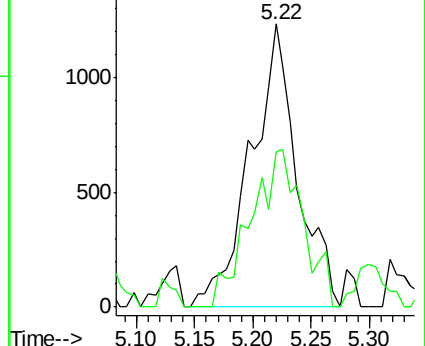
83 100

85 54.7 51.6 77.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.609 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007471.D

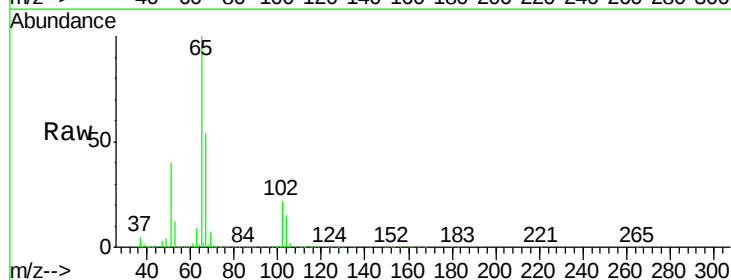
Acq: 11 Feb 2019 16:39

Tgt Ion: 65 Resp: 281949

Ion Ratio Lower Upper

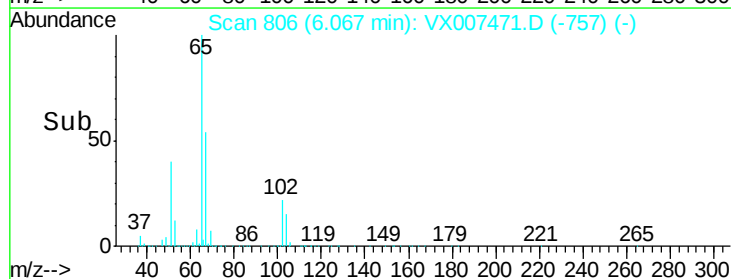
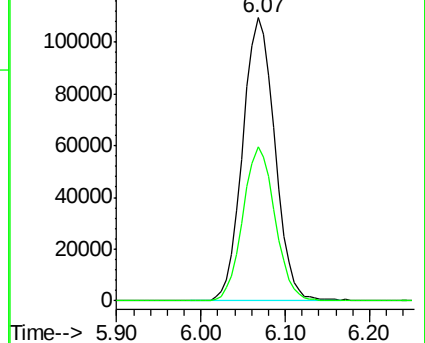
65 100

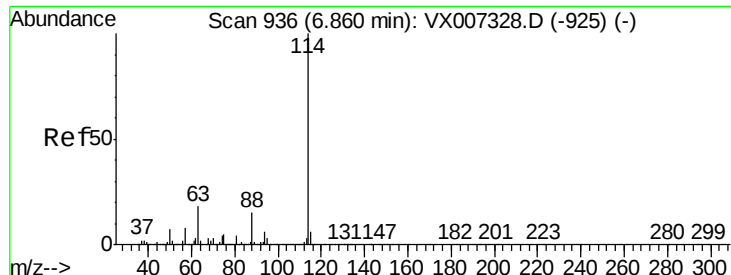
67 54.5 0.0 108.8



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: VX007471.D

Acq: 11 Feb 2019 16:39

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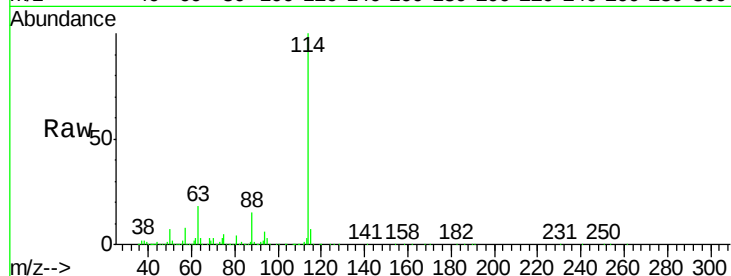
Tot Ion:114 Resp: 831269

Ion Ratio Lower Upper

114 100

63 18.3 0.0 35.6

88 14.6 0.0 29.6

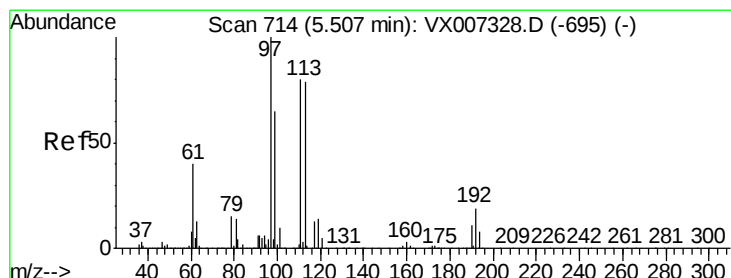
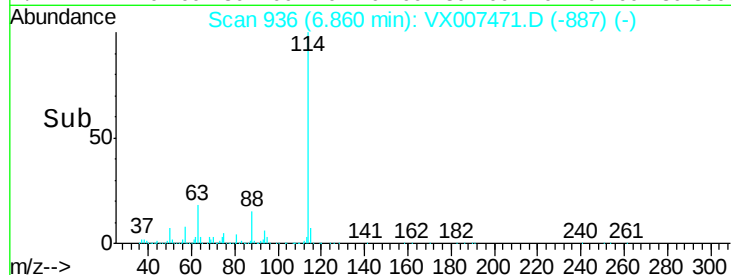
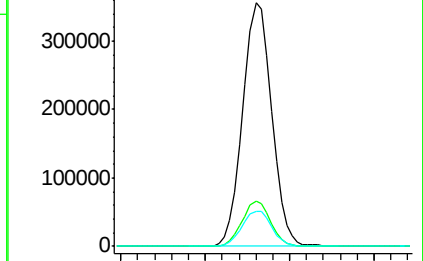


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.86



#35

Dibromofluoromethane

Concen: 47.729 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

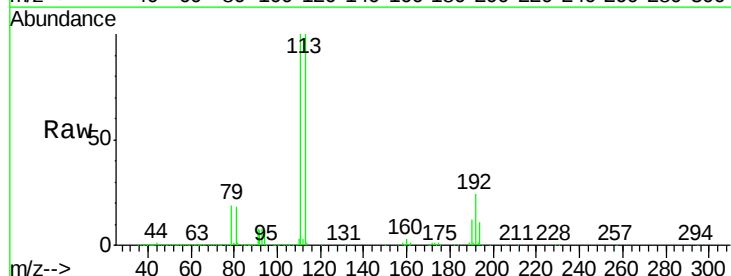
Tgt Ion:113 Resp: 258157

Ion Ratio Lower Upper

113 100

111 103.4 81.8 122.8

192 23.7 18.5 27.7

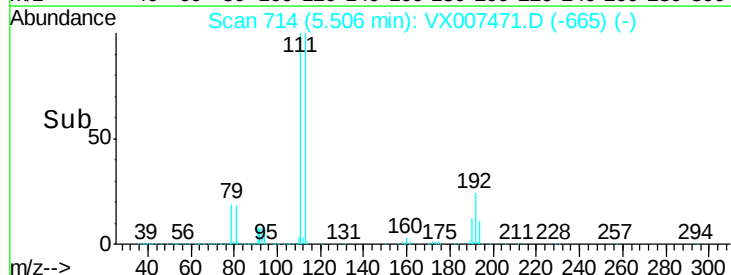
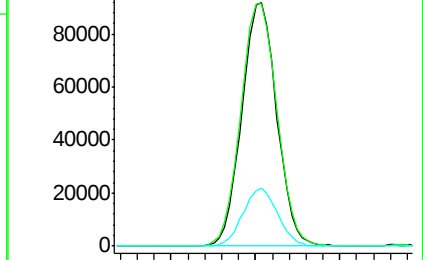


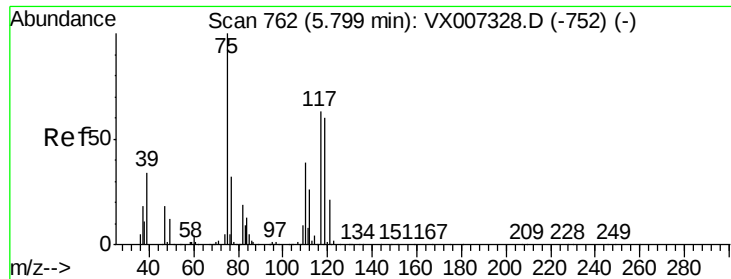
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

5.51





#36

1,1-Dichloropropene

Concen: 4.502 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

KY001MW011-190207

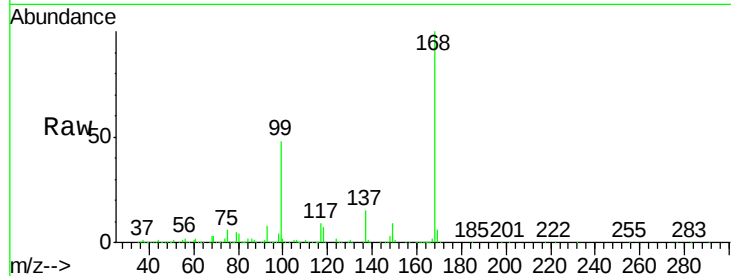
Tot Ion: 75 Resp: 33581

Ion Ratio Lower Upper

75 100

110 10.6 20.0 59.9#

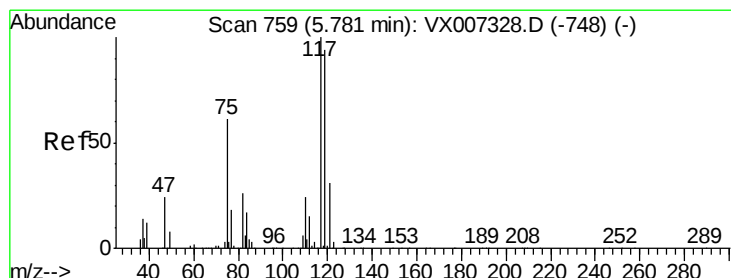
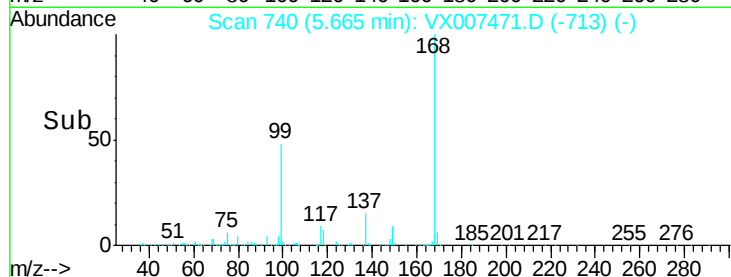
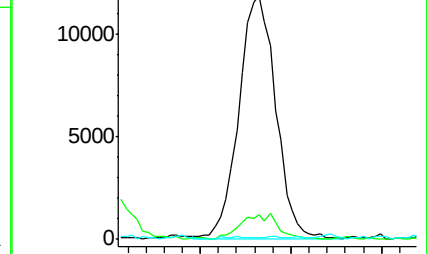
77 0.7 24.7 37.1#



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: 6.743 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

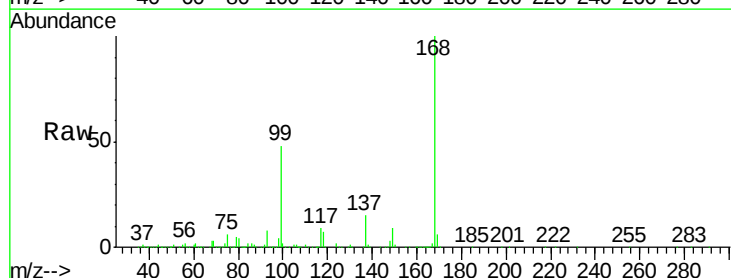
Tgt Ion: 117 Resp: 48793

Ion Ratio Lower Upper

117 100

119 4.8 75.3 112.9#

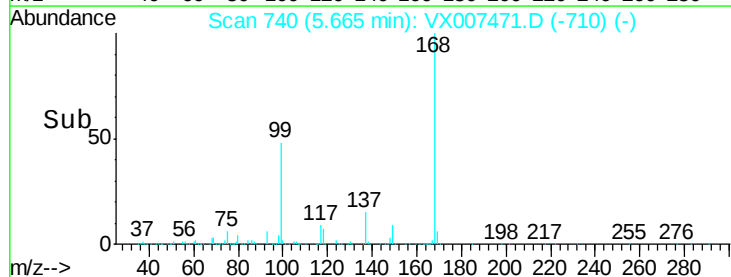
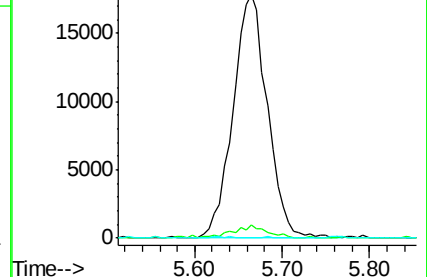
121 0.0 25.0 37.4#

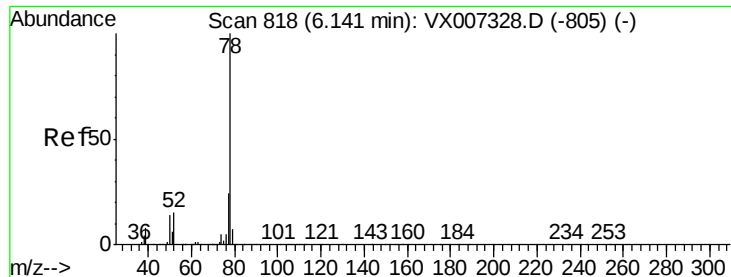


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.269 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

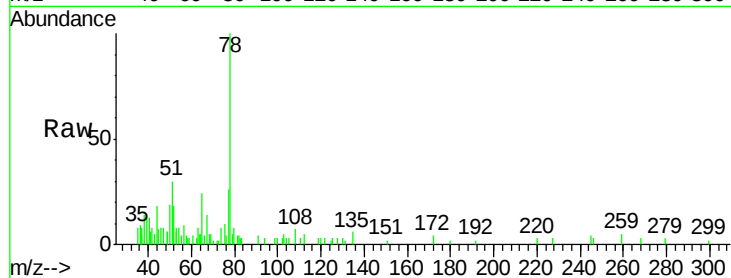
KY001MW011-190207

Tot Ion: 78 Resp: 5915

Ion Ratio Lower Upper

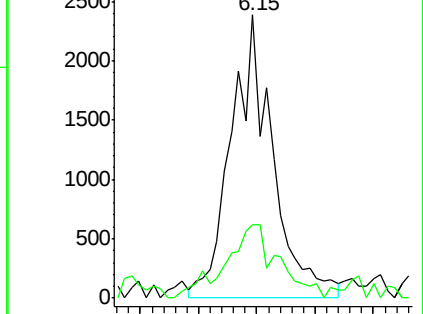
78 100

77 23.6 19.3 28.9

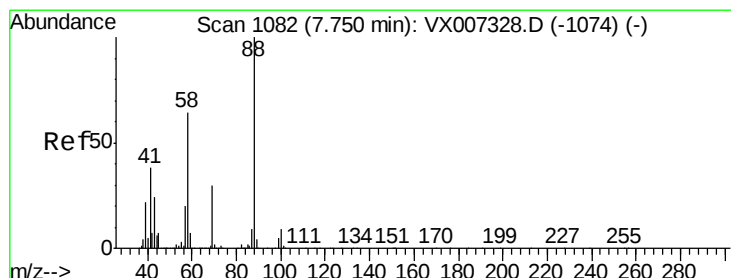
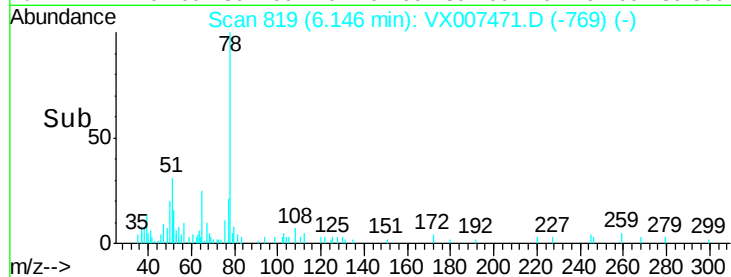


Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#49

1,4-Dioxane

Concen: 7.059 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

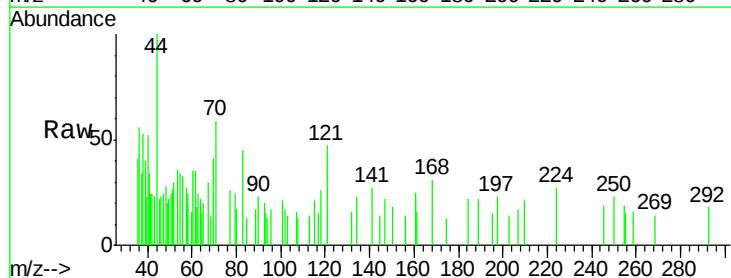
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 925.0 24.2 36.4#

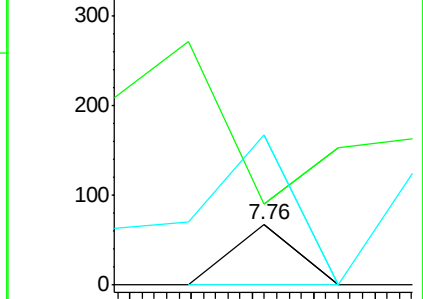
58 362.5 53.0 79.4#



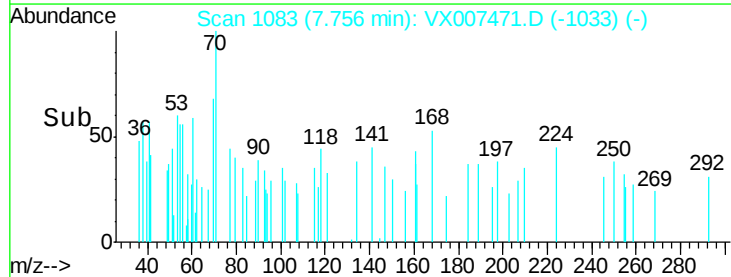
Abundance Ion 88.00 (87.70 to 88.70): VX0

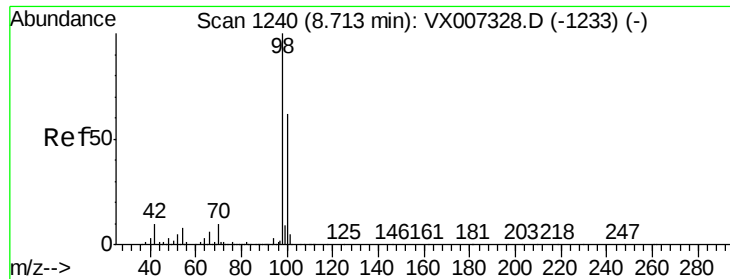
Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#50

Toluene-d8

Concen: 49.531 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

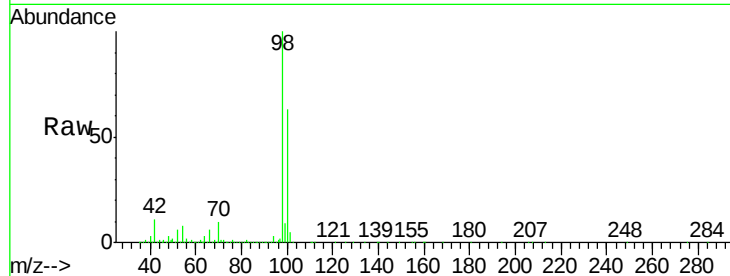
KY001MW011-190207

Tot Ion: 98 Resp: 993971

Ion Ratio Lower Upper

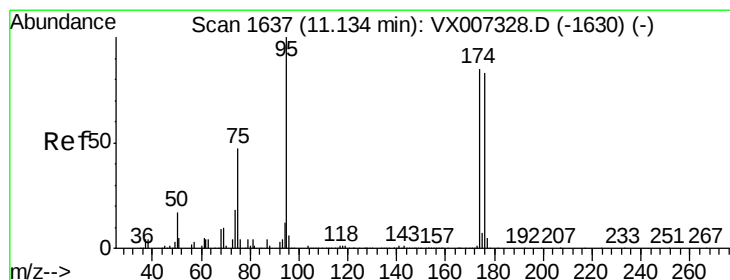
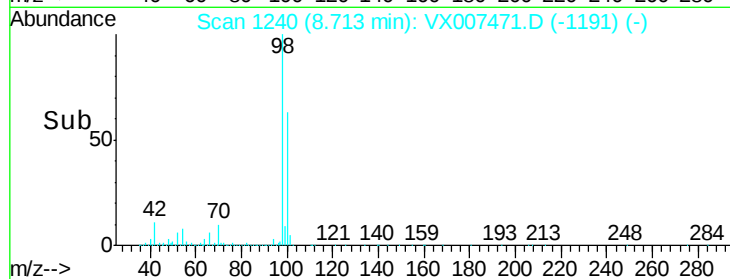
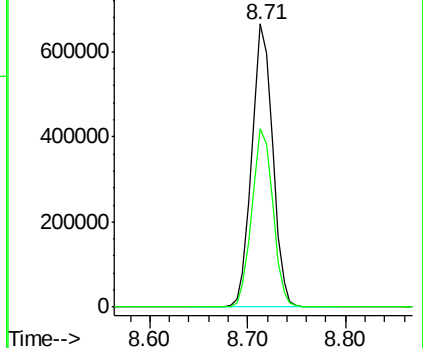
98 100

100 63.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 48.452 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

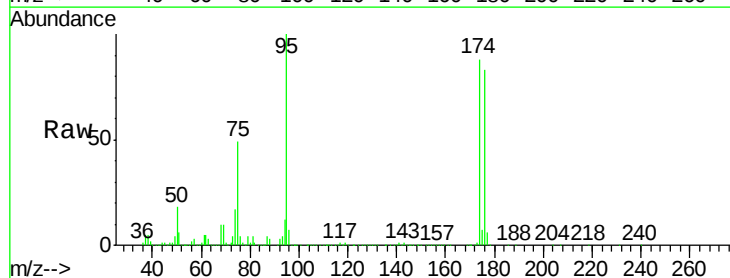
Tgt Ion: 95 Resp: 354990

Ion Ratio Lower Upper

95 100

174 94.5 0.0 189.2

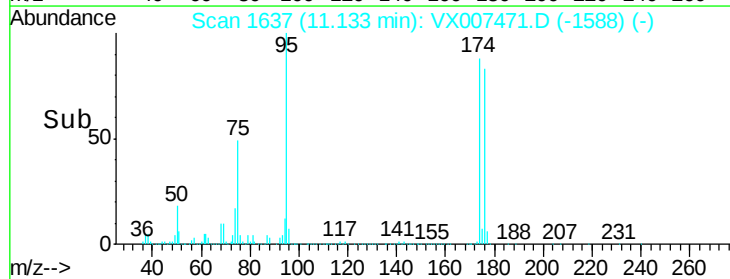
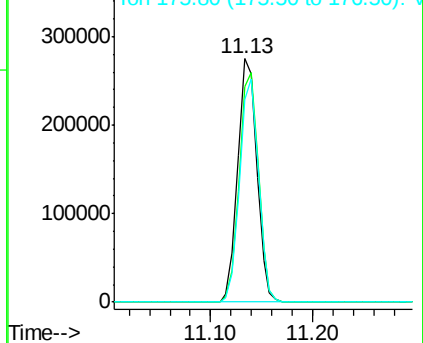
176 90.8 0.0 186.2

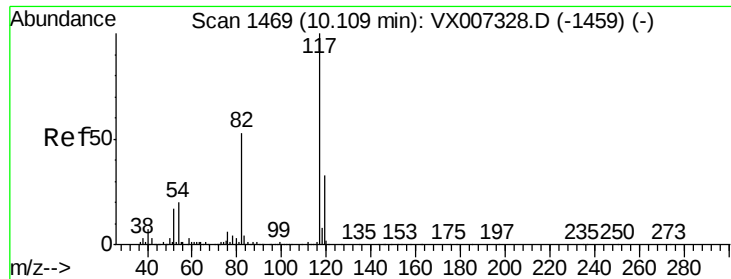


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

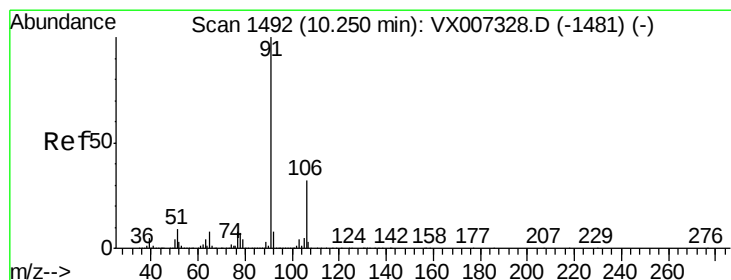
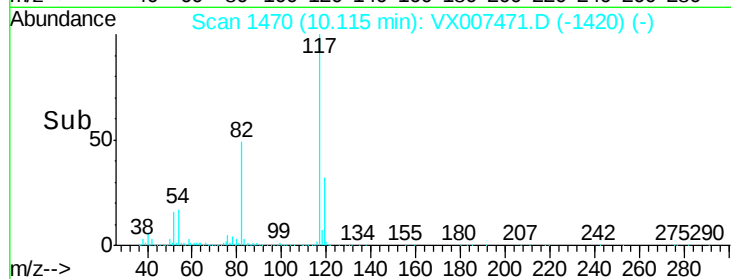
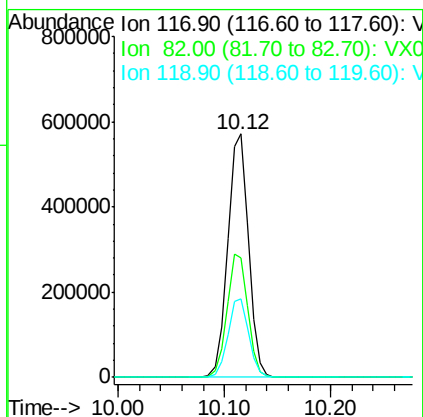
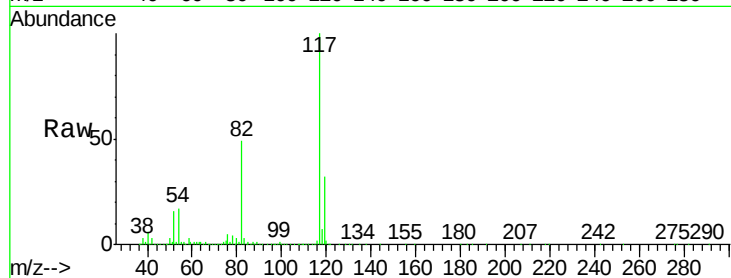




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007471.D
Acq: 11 Feb 2019 16:39

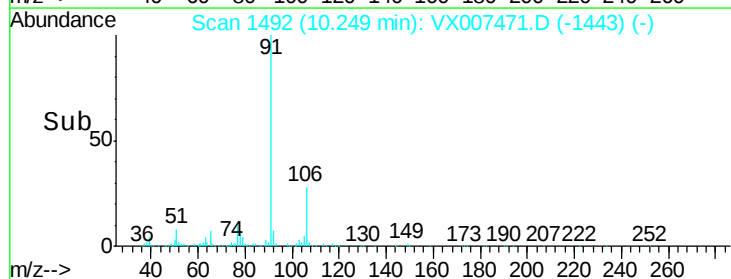
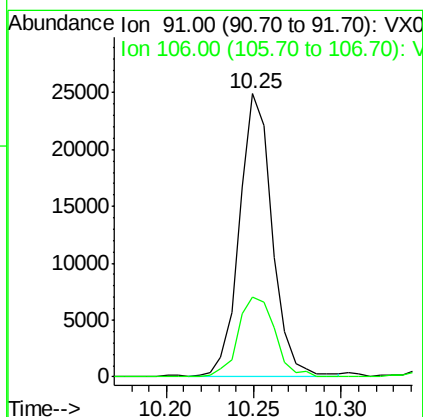
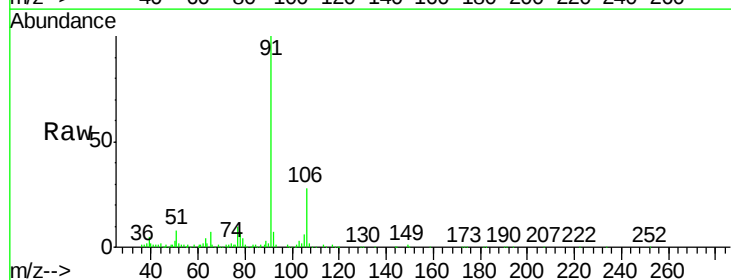
Instrument :
MSVOA_X
ClientSampleId :
KY001MW011-190207

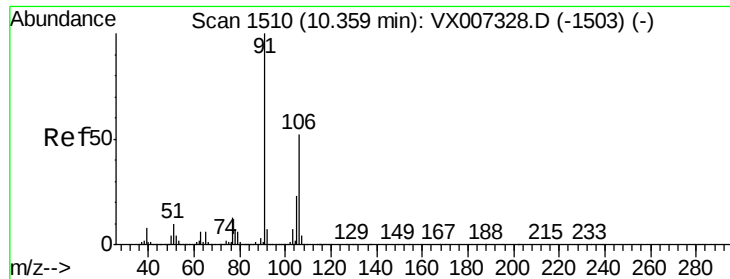
Tot Ion:117 Resp: 783420
Ion Ratio Lower Upper
117 100
82 49.1 42.1 63.1
119 32.3 26.5 39.7



#67
Ethyl Benzene
Concen: 1.165 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX007471.D
Acq: 11 Feb 2019 16:39

Tgt Ion: 91 Resp: 32066
Ion Ratio Lower Upper
91 100
106 28.3 25.4 38.0





#68

m/p-Xvlenes

Concen: 0.318 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

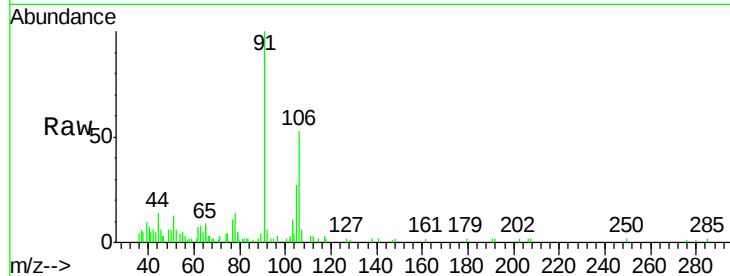
KY001MW011-190207

Tot Ion:106 Resp: 3477

Ion Ratio Lower Upper

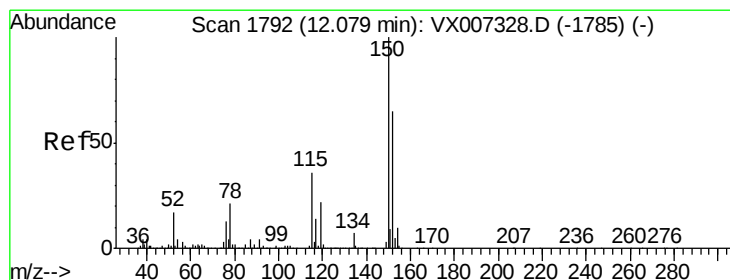
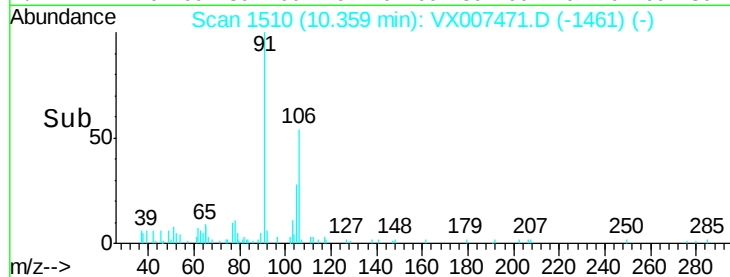
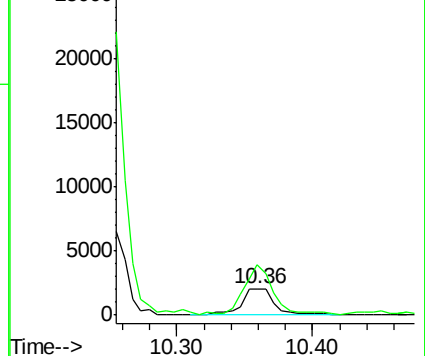
106 100

91 159.0 156.6 234.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

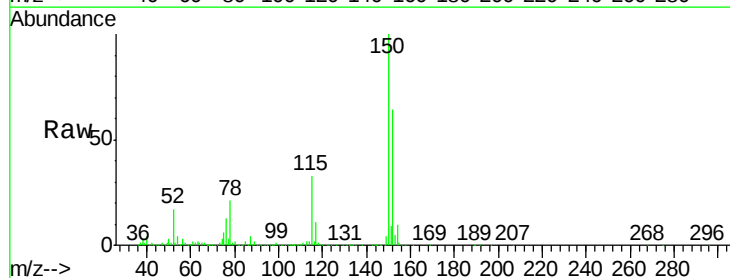
Tgt Ion:152 Resp: 381506

Ion Ratio Lower Upper

152 100

115 53.6 38.0 114.0

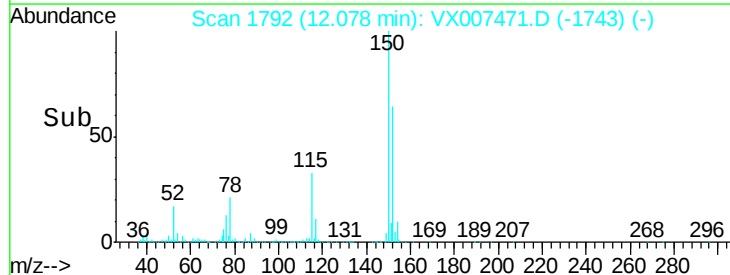
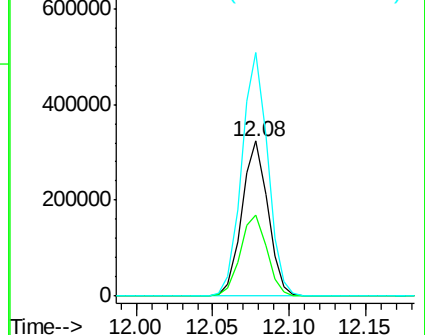
150 157.0 0.0 346.4

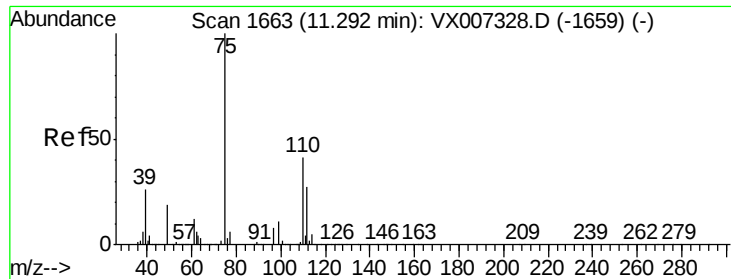


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.788 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

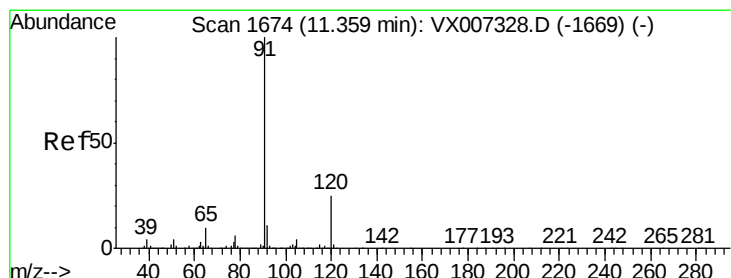
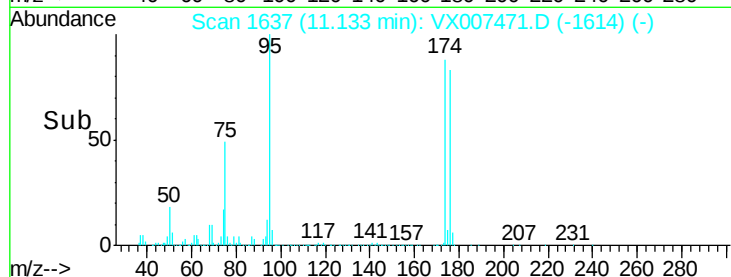
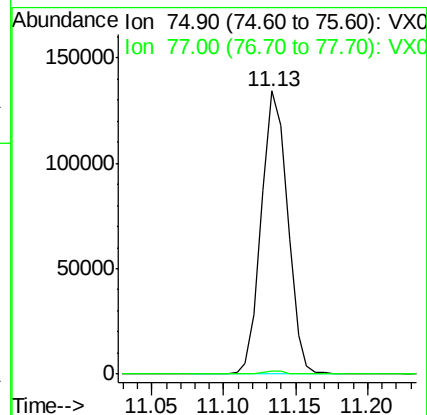
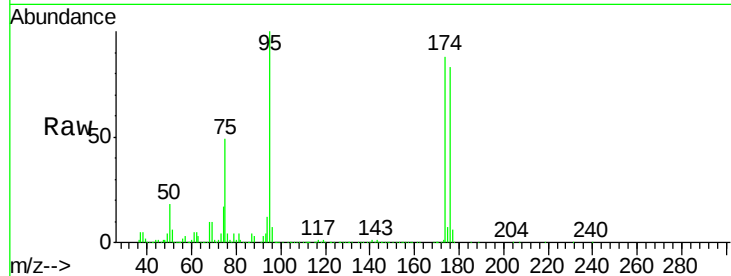
KY001MW011-190207

Tot Ion: 75 Resp: 169105

Ion Ratio Lower Upper

75 100

77 1.1 23.0 69.0#



#78

n-propylbenzene

Concen: 0.246 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX007471.D

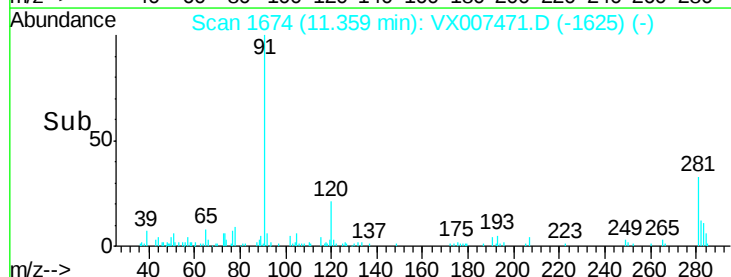
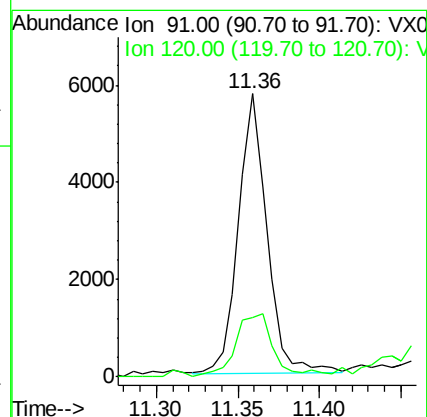
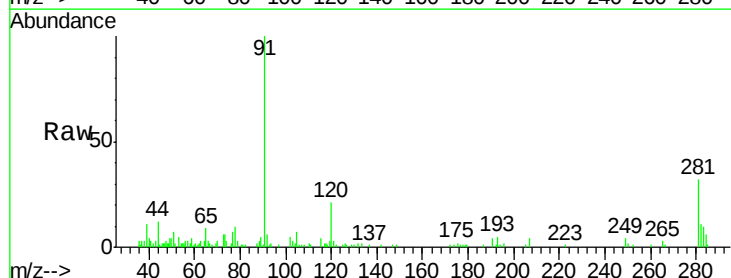
Acq: 11 Feb 2019 16:39

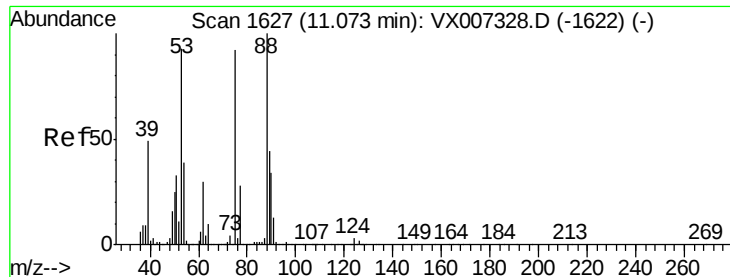
Tgt Ion: 91 Resp: 7001

Ion Ratio Lower Upper

91 100

120 30.4 12.4 37.2





#81

trans-1,4-Dichloro-2-butene

Concen: 68.708 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

Instrument :

MSVOA_X

ClientSampleId :

KY001MW011-190207

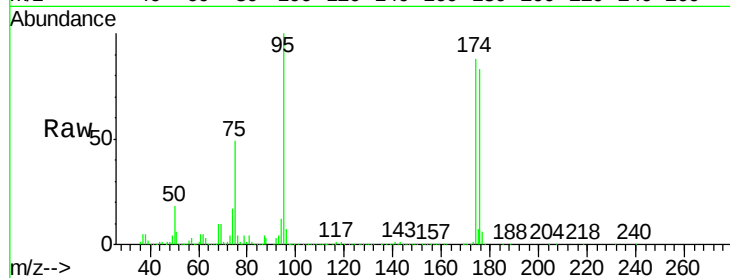
Tot Ion: 75 Resp: 169105

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

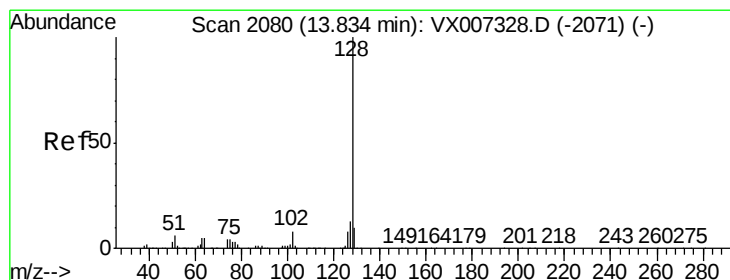
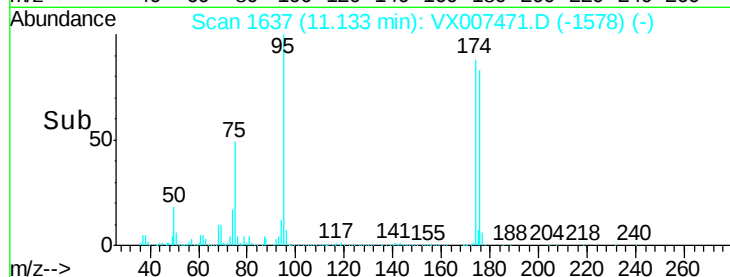
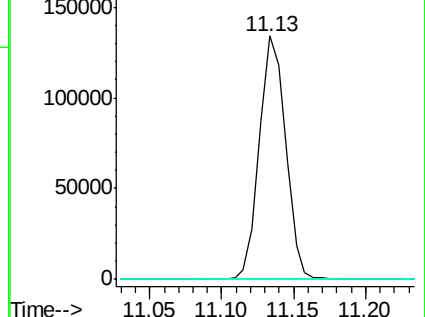
89 0.0 41.4 62.0#



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: 1.305 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007471.D

Acq: 11 Feb 2019 16:39

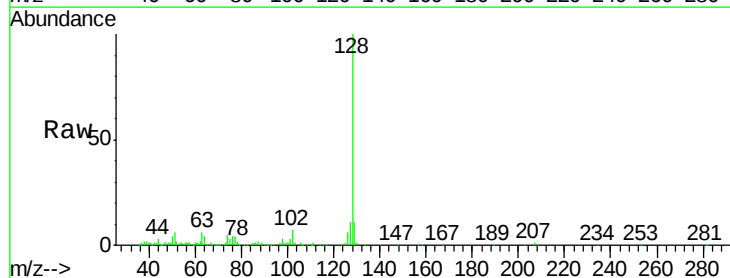
Tgt Ion: 128 Resp: 33566

Ion Ratio Lower Upper

128 100

127 12.9 10.5 15.7

129 11.9 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

