

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022619\
 Data File : VX007727.D
 Acq On : 26 Feb 2019 21:19
 Operator : JC/SP
 Sample : K1610-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WV-B

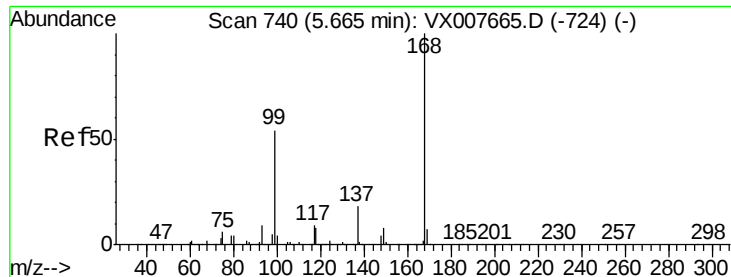
Quant Time: Feb 27 00:22:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 01:53:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	331173	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	576808	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	563150	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	249175	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	213084	51.94	ug/l	0.00
Spiked Amount			Recovery	=	103.88%	
35) Dibromofluoromethane	5.51	113	190761	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
50) Toluene-d8	8.71	98	722005	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
62) 4-Bromofluorobenzene	11.13	95	249771	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	724	0.214	ug/l #	49
5) Bromomethane	1.65	94	334	Below Cal	#	50
11) Tert butyl alcohol	3.08	59	309	0.397	ug/l #	1
13) Acrolein	2.31	56	511	0.739	ug/l #	14
16) Acetone	2.45	43	21895	12.002	ug/l #	88
18) Methyl Acetate	2.78	43	14449	3.630	ug/l	97
20) Methylene Chloride	2.86	84	393201	116.729	ug/l	95
25) 2-Butanone	4.70	43	5308	1.910	ug/l	91
29) Tetrahydrofuran	5.15	42	806	0.440	ug/l #	25
36) 1,1-Dichloropropene	5.66	75	23349	4.503	ug/l #	49
38) Carbon Tetrachloride	5.66	117	31568	6.060	ug/l #	18
43) Isopropyl Acetate	6.46	43	17747	2.002	ug/l #	90
48) Methyl methacrylate	7.68	41	11132	2.395	ug/l #	13
49) 1,4-Dioxane	7.74	88	110	1.096	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	90492	15.248	ug/l #	51
53) t-1,3-Dichloropropene	9.04	75	252	2.841	ug/l #	71
54) cis-1,3-Dichloropropene	8.62	75	44997	7.396	ug/l #	65
59) 2-Hexanone	9.54	43	129783	27.856	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	122201	23.008	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	4016	0.274	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	122201	60.953	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	7170	0.479	ug/l	97
95) Naphthalene	13.83	128	26702	1.629	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampleId :

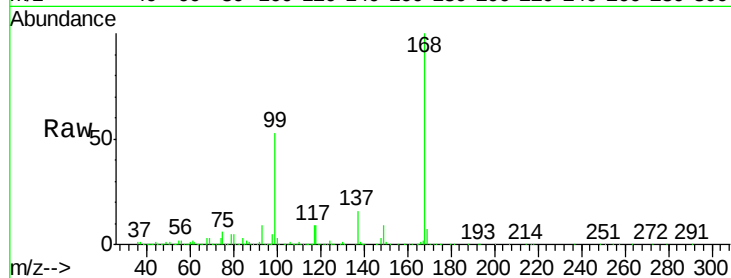
WV-B

Tot Ion:168 Resp: 331173

Ion Ratio Lower Upper

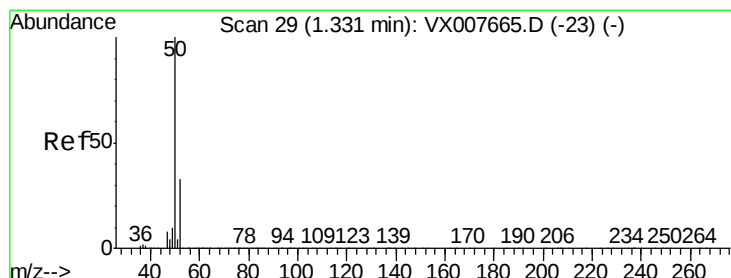
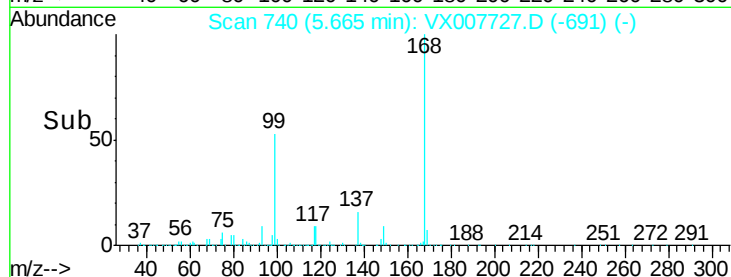
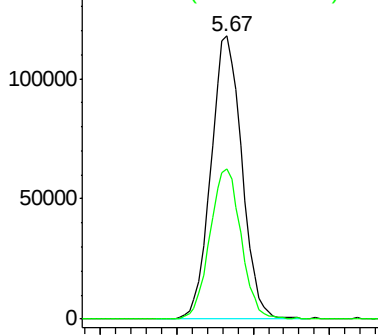
168 100

99 53.1 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.214 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007727.D

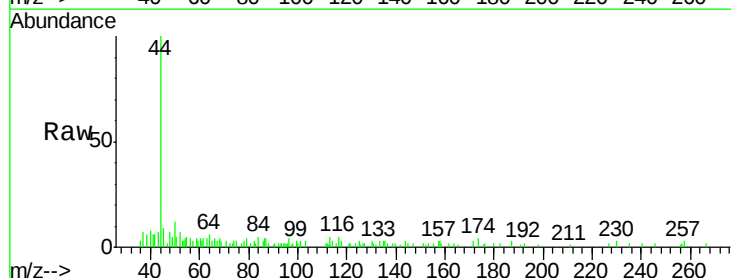
Acq: 26 Feb 2019 21:19

Tgt Ion: 50 Resp: 724

Ion Ratio Lower Upper

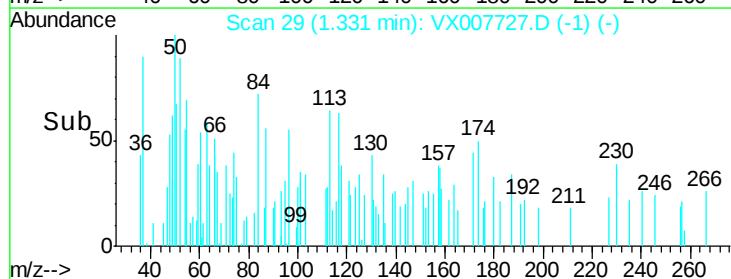
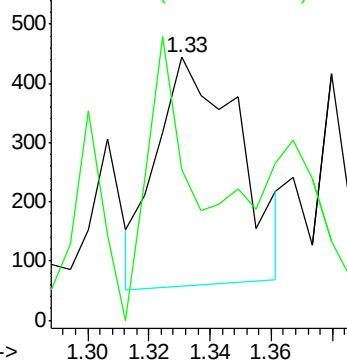
50 100

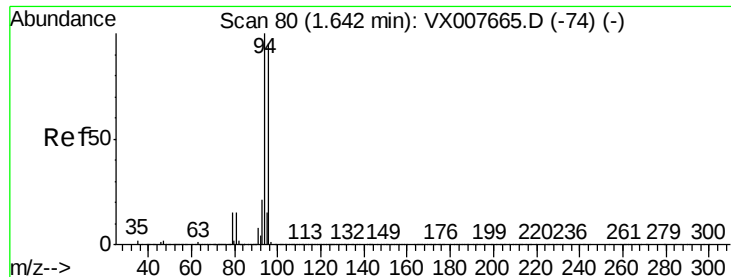
52 61.2 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampled :

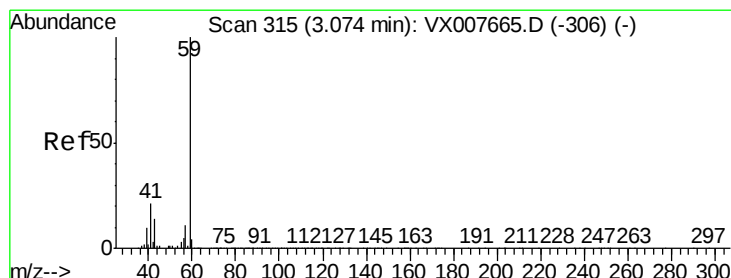
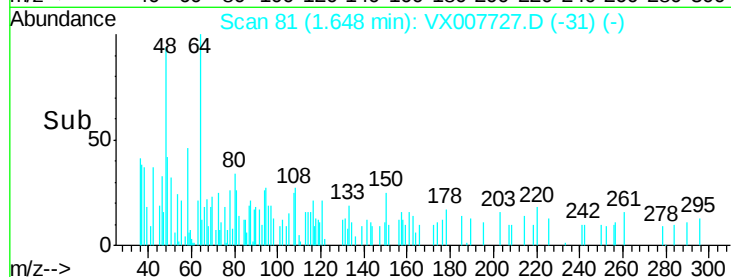
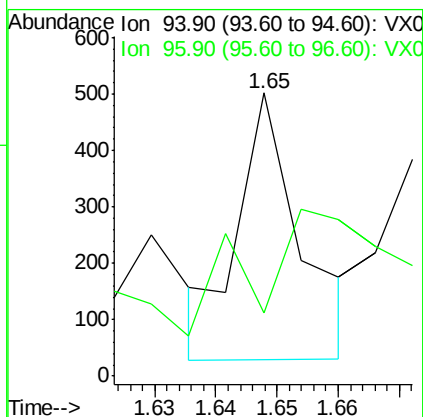
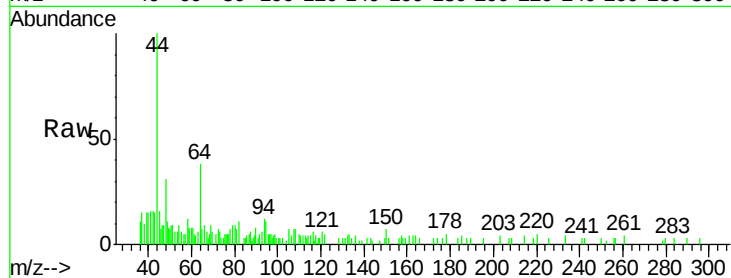
WV-B

Tot Ion: 94 Resp: 334

Ion Ratio Lower Upper

94 100

96 44.8 73.9 110.9#



#11

Tert butyl alcohol

Concen: 0.397 ug/l

RT: 3.08 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX007727.D

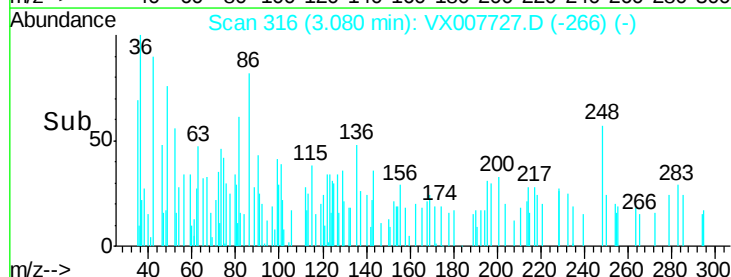
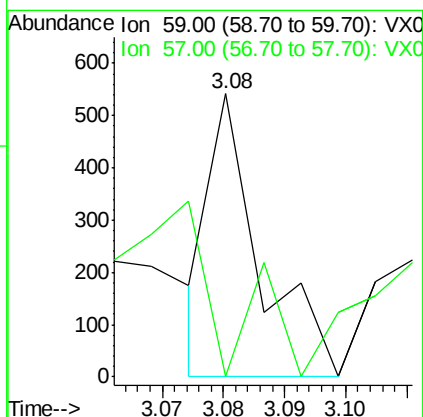
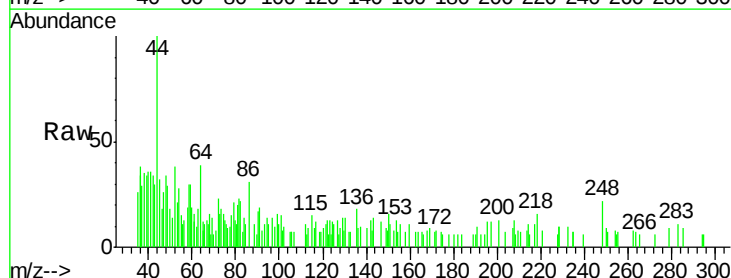
Acq: 26 Feb 2019 21:19

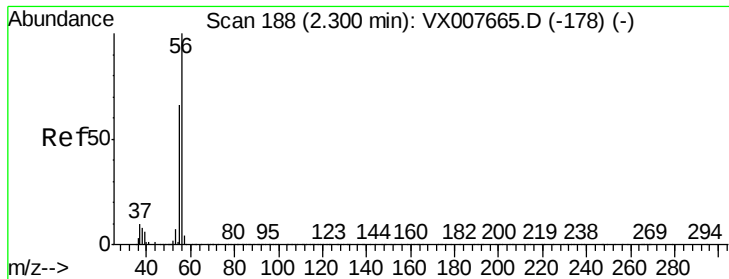
Tgt Ion: 59 Resp: 309

Ion Ratio Lower Upper

59 100

57 98.4 8.1 12.1#





#13

Acrolein

Concen: 0.739 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampleId :

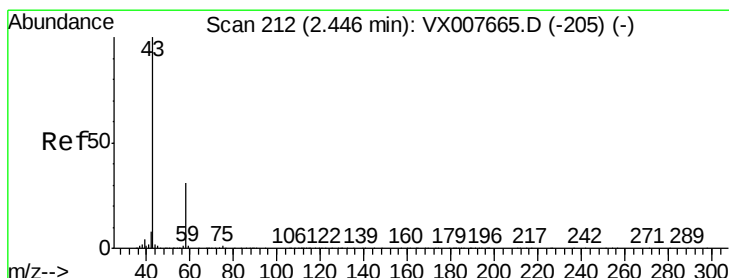
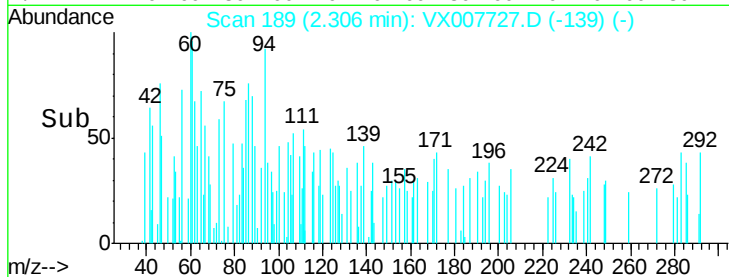
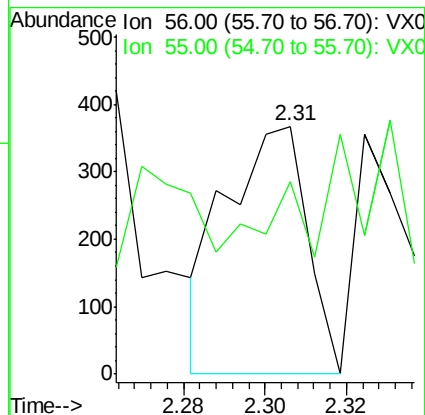
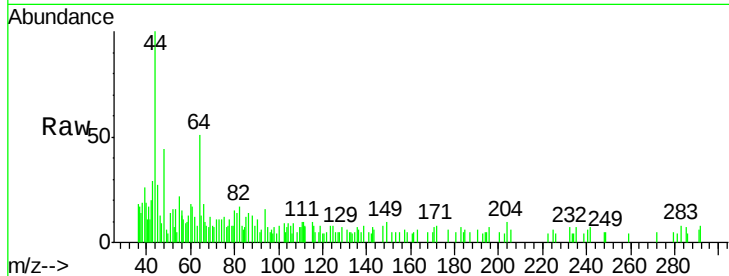
WV-B

Tot Ion: 56 Resp: 511

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



#16

Acetone

Concen: 12.002 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007727.D

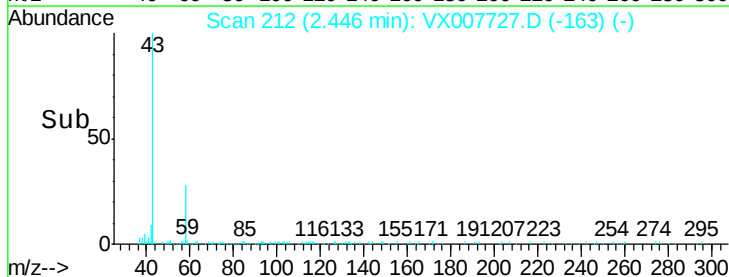
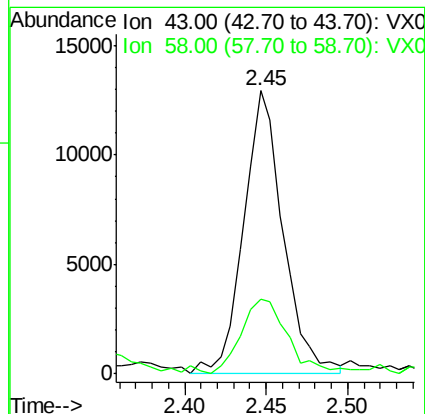
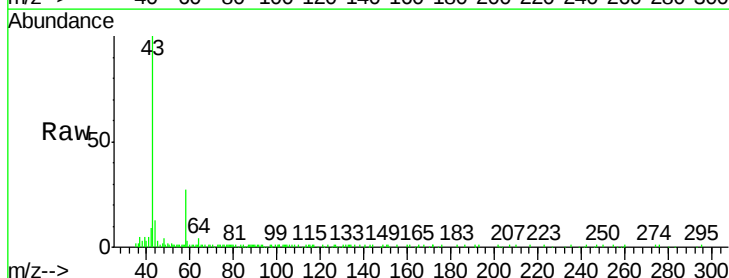
Acq: 26 Feb 2019 21:19

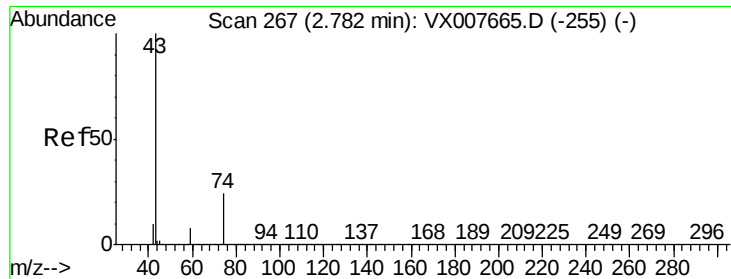
Tgt Ion: 43 Resp: 21895

Ion Ratio Lower Upper

43 100

58 24.6 24.9 37.3#

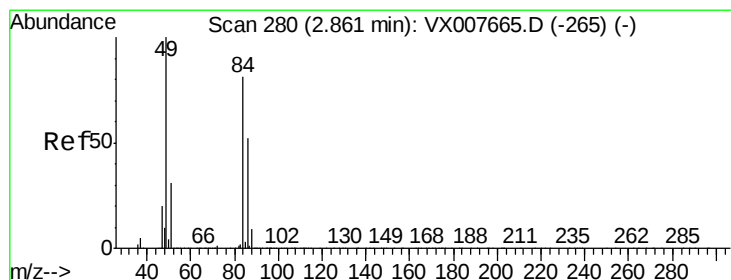
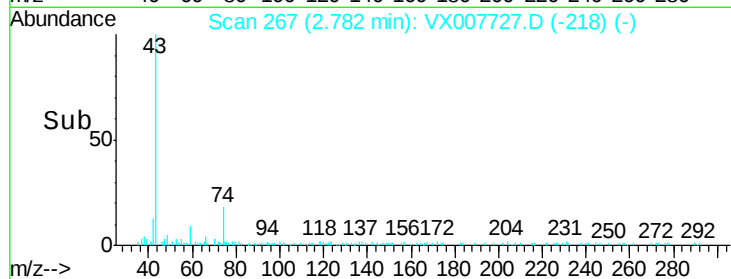
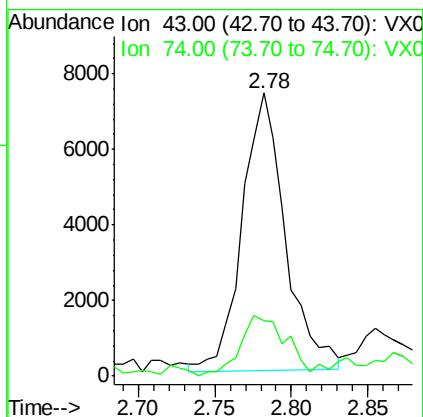
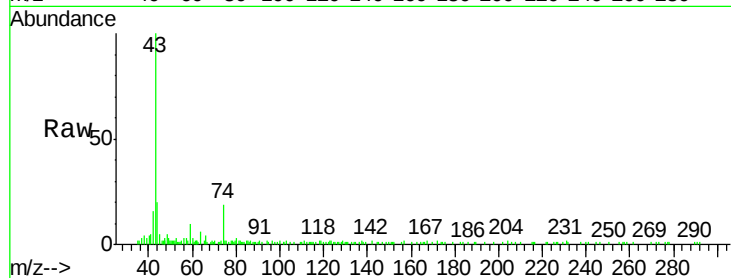




#18
Methyl Acetate
Concen: 3.630 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

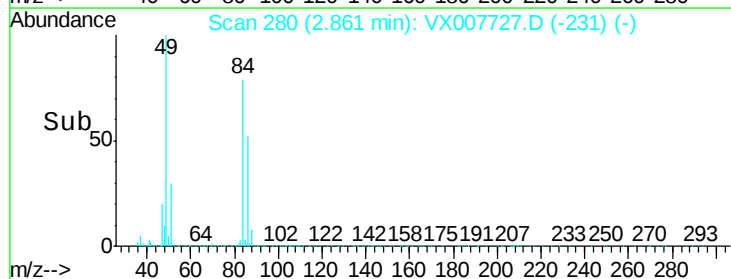
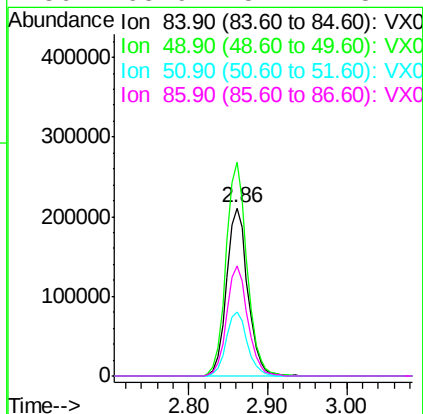
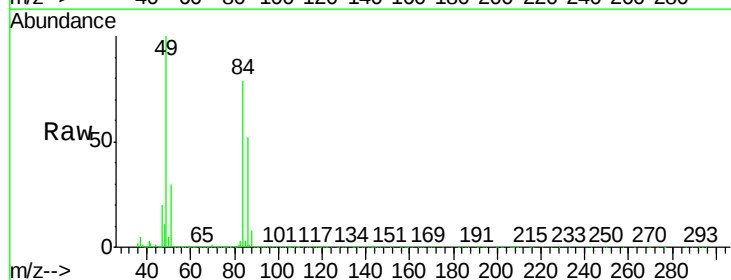
Instrument :
MSVOA_X
ClientSampleId :
WV-B

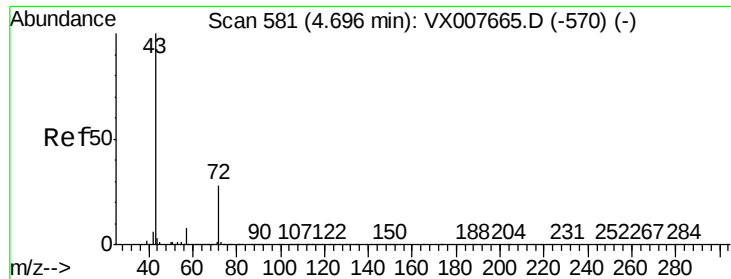
Tot Ion: 43 Resp: 14449
Ion Ratio Lower Upper
43 100
74 23.0 19.4 29.2



#20
Methylene Chloride
Concen: 116.729 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

Tgt Ion: 84 Resp: 393201
Ion Ratio Lower Upper
84 100
49 127.1 94.8 142.2
51 38.2 29.8 44.8
86 65.9 54.1 81.1





#25

2-Butanone

Concen: 1.910 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampled :

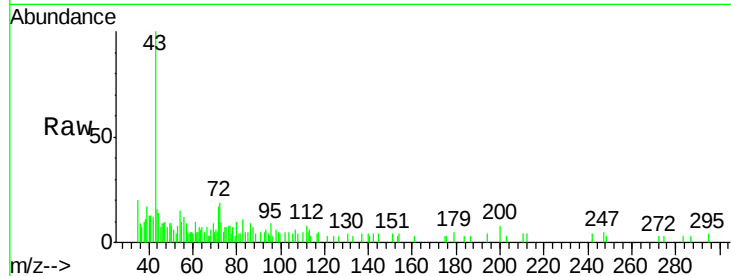
WV-B

Tot Ion: 43 Resp: 5308

Ion Ratio Lower Upper

43 100

72 32.5 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70

1500

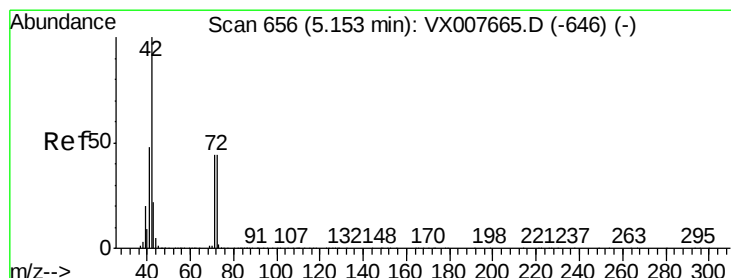
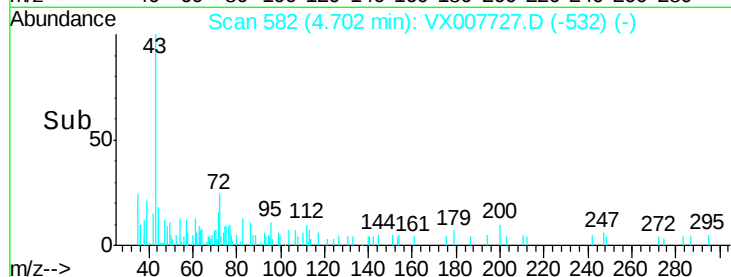
1000

500

0

Time-->

4.60 4.65 4.70 4.75 4.80



#29

Tetrahydrofuran

Concen: 0.440 ug/l

RT: 5.15 min Scan# 655

Delta R.T. -0.01 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

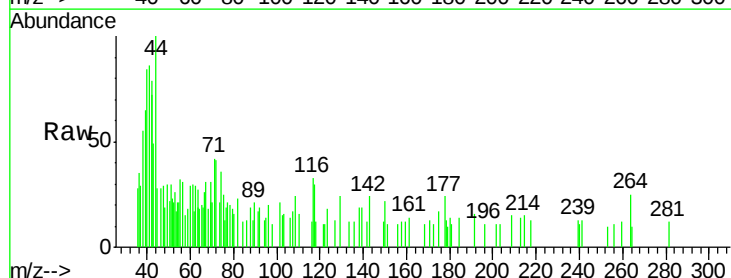
Tgt Ion: 42 Resp: 806

Ion Ratio Lower Upper

42 100

72 138.8 37.6 56.4#

71 47.3 34.6 51.8



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

5.15

1000

800

600

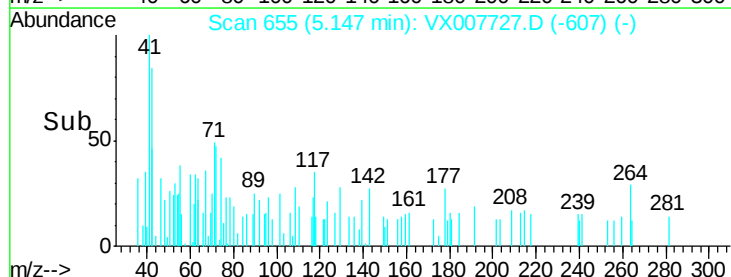
400

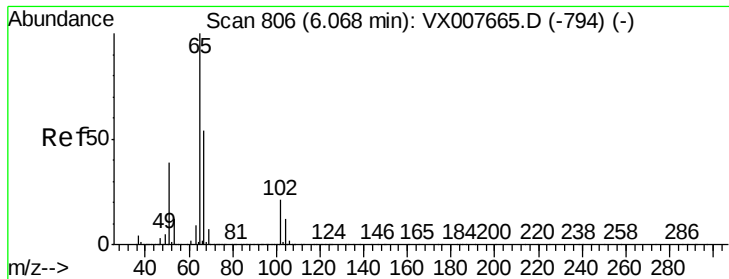
200

0

Time-->

5.10 5.12 5.14 5.16





#33

1,2-Dichloroethane-d4

Concen: 51.944 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampleId :

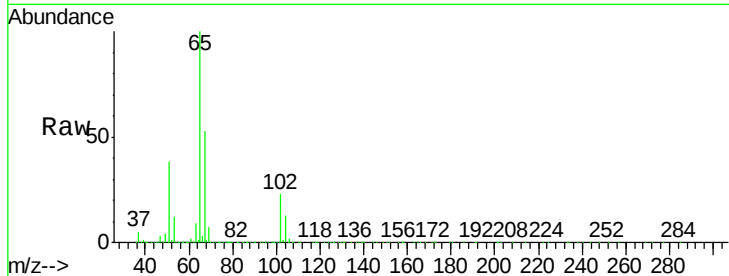
WV-B

Tot Ion: 65 Resp: 213084

Ion Ratio Lower Upper

65 100

67 53.6 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

80000

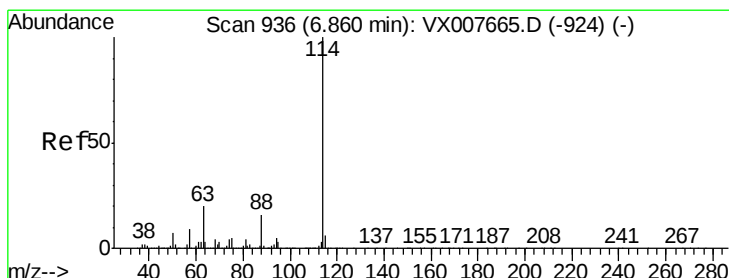
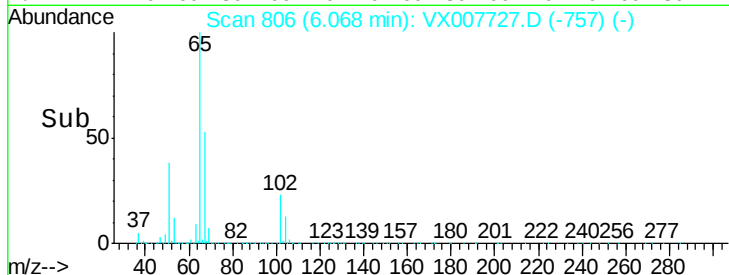
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20 6.30



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

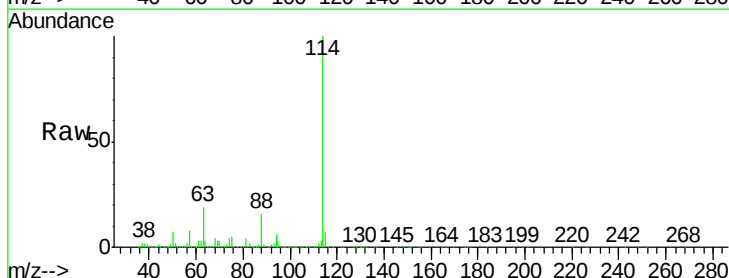
Tgt Ion: 114 Resp: 576808

Ion Ratio Lower Upper

114 100

63 19.1 0.0 35.6

88 15.8 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

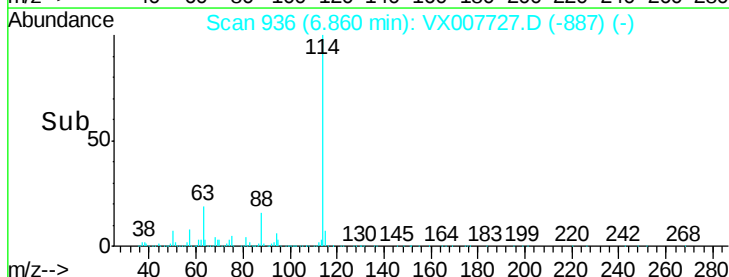
300000

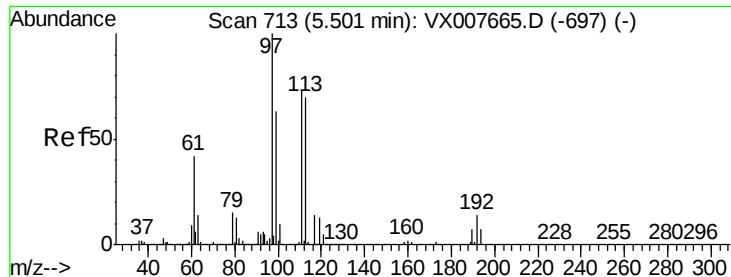
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 49.474 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampleId :

WV-B

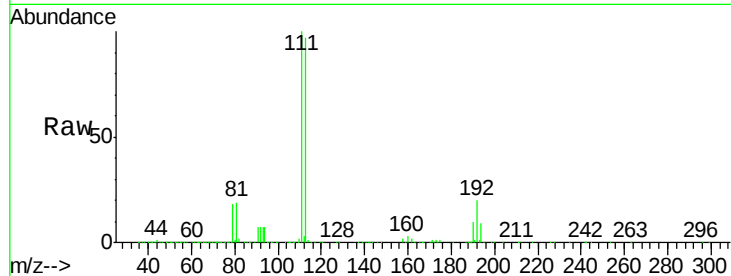
Tot Ion:113 Resp: 190761

Ion Ratio Lower Upper

113 100

111 102.9 81.8 122.8

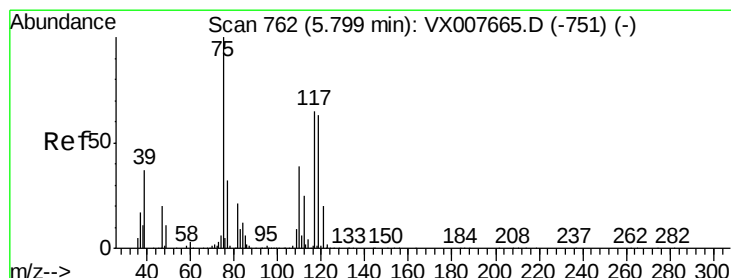
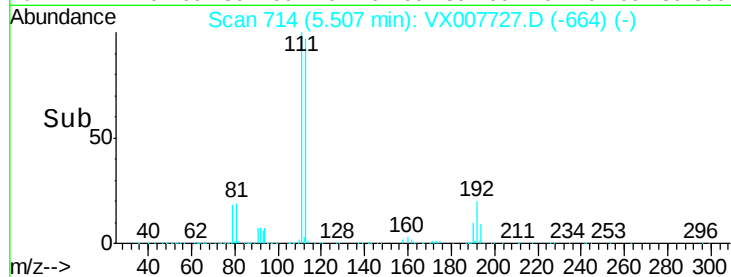
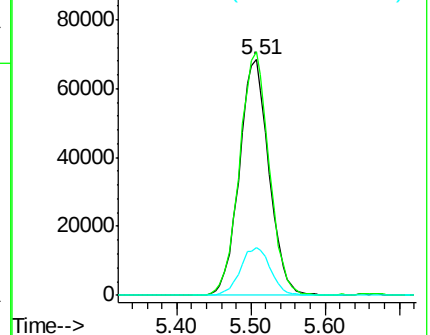
192 20.6 18.5 27.7



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: 4.503 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

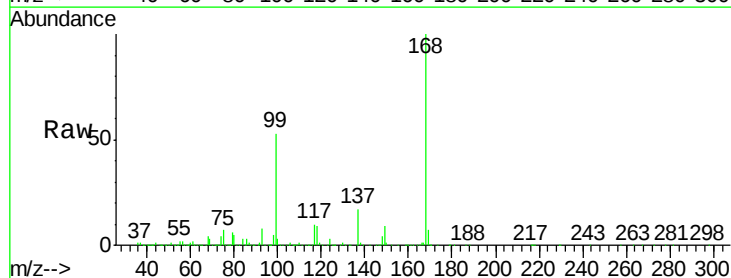
Tgt Ion: 75 Resp: 23349

Ion Ratio Lower Upper

75 100

110 11.3 20.0 59.9#

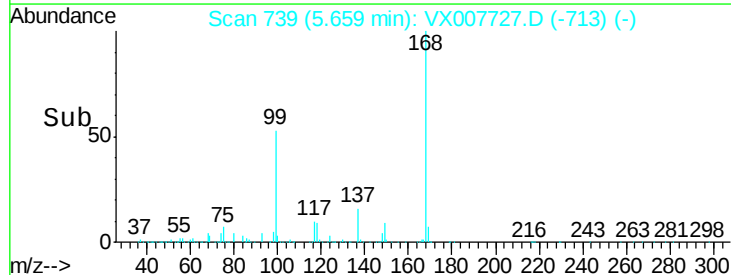
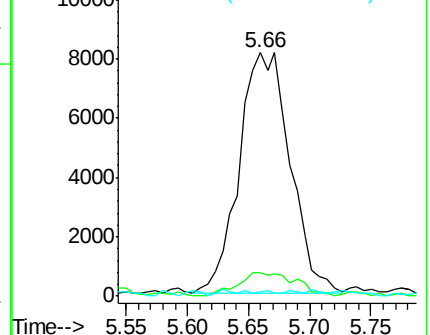
77 0.0 24.7 37.1#

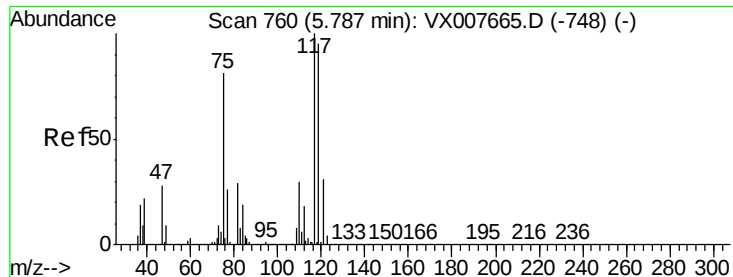


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.060 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampleId :

WV-B

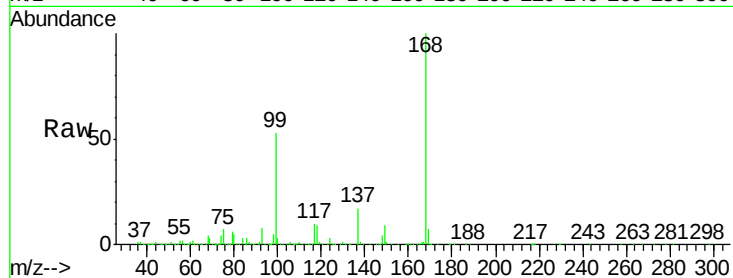
Tot Ion:117 Resp: 31568

Ion Ratio Lower Upper

117 100

119 6.3 75.3 112.9#

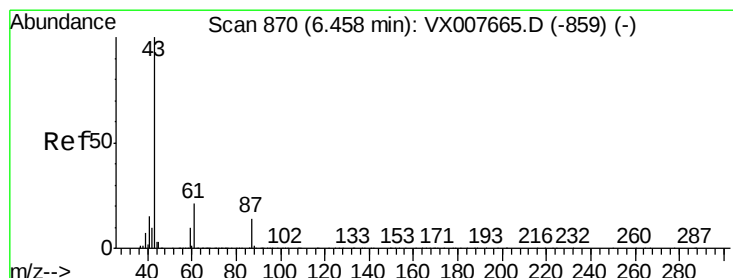
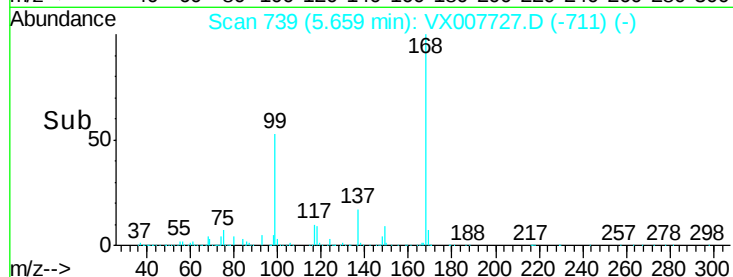
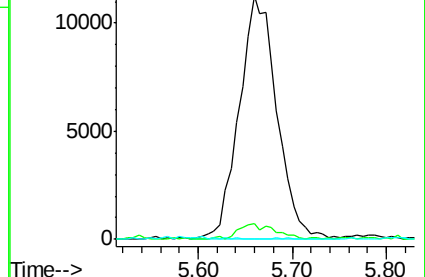
121 0.0 25.0 37.4#



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



#43

Isopropyl Acetate

Concen: 2.002 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

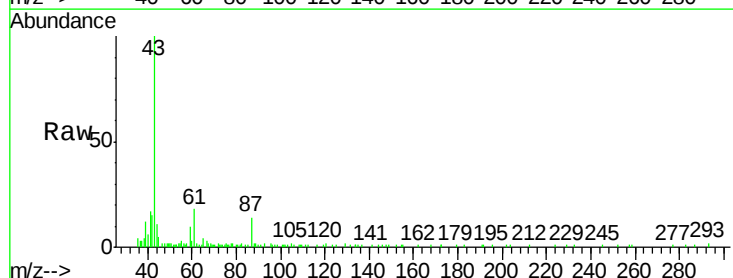
Tgt Ion: 43 Resp: 17747

Ion Ratio Lower Upper

43 100

61 25.6 16.1 24.1#

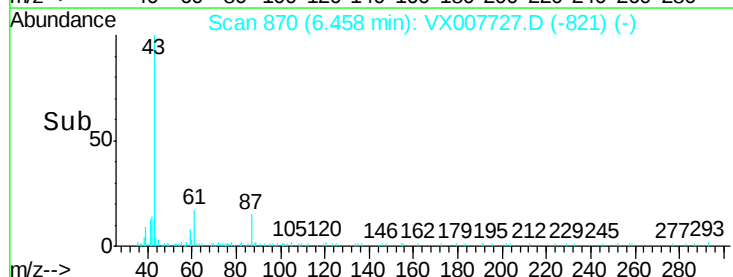
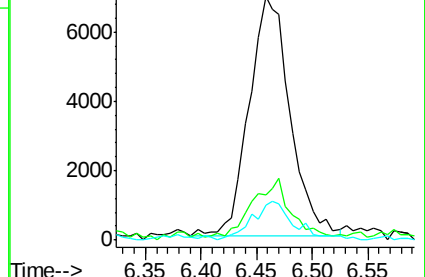
87 16.9 11.5 17.3

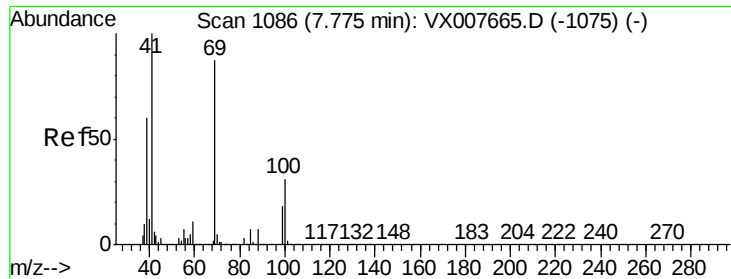


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

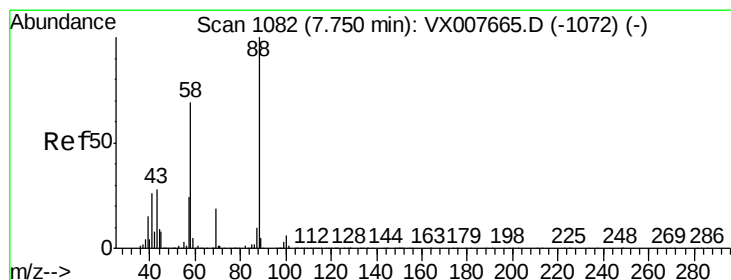
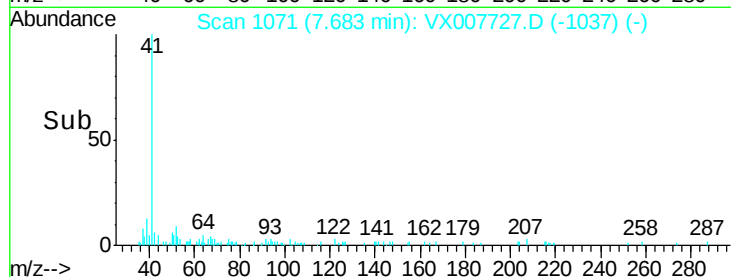
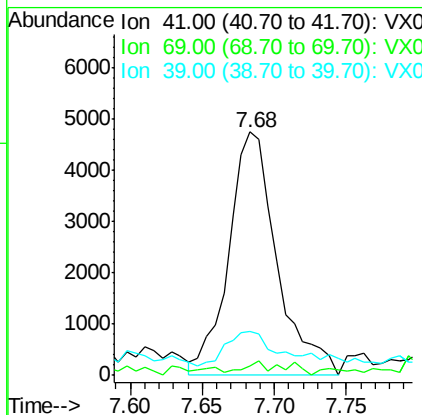
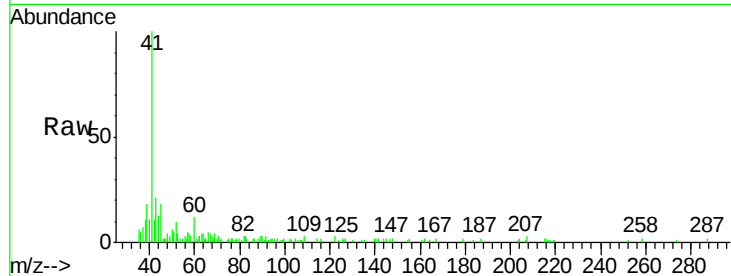




#48
Methvl methacrylate
Concen: 2.395 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

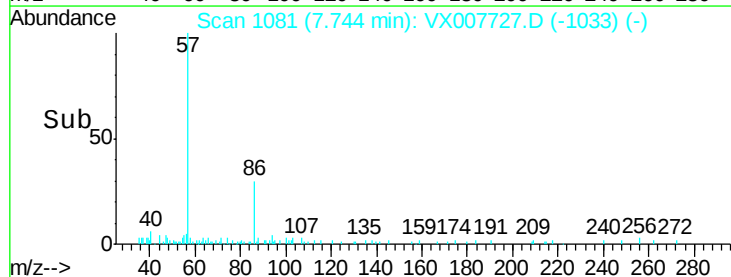
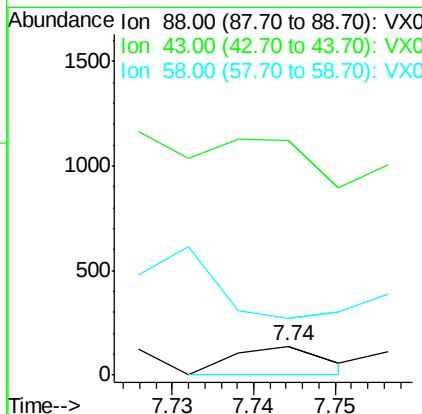
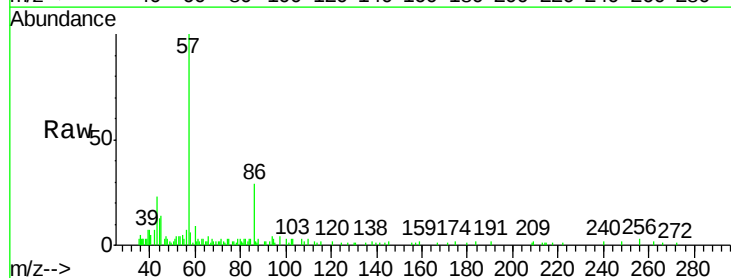
Instrument :
MSVOA_X
ClientSampled :
WV-B

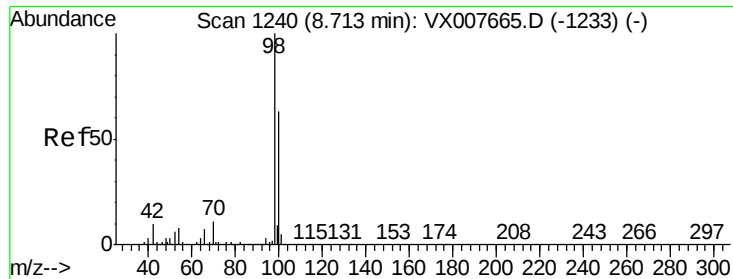
Tot Ion: 41 Resp: 11132
Ion Ratio Lower Upper
41 100
69 1.6 70.2 105.4#
39 0.0 47.4 71.0#



#49
1,4-Dioxane
Concen: 1.096 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

Tgt Ion: 88 Resp: 110
Ion Ratio Lower Upper
88 100
43 0.0 24.2 36.4#
58 750.9 53.0 79.4#

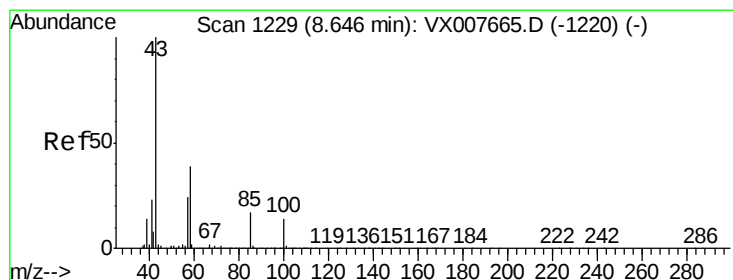
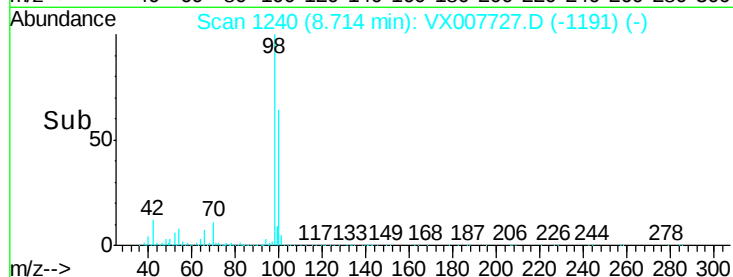
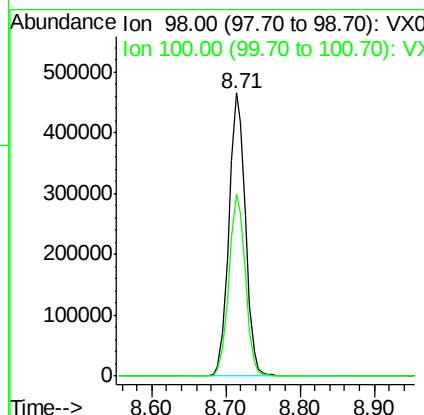
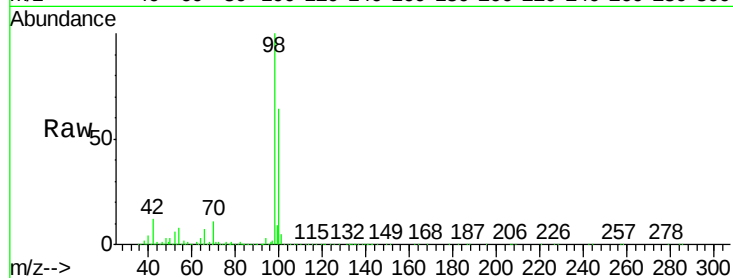




#50
Toluene-d8
Concen: 48.912 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

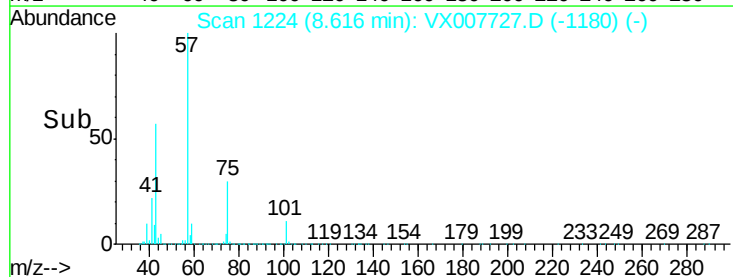
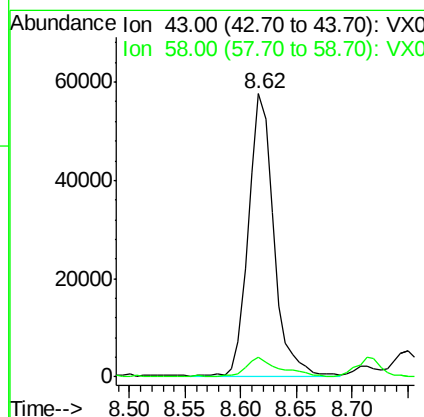
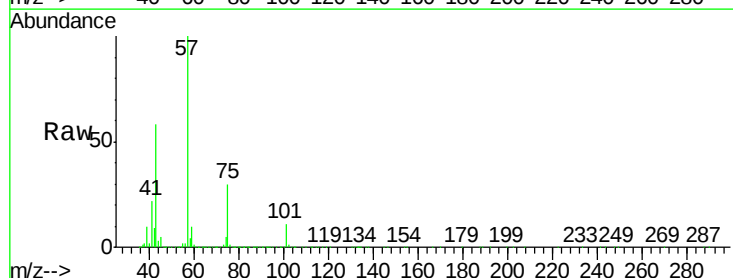
Instrument :
MSVOA_X
ClientSampled :
WV-B

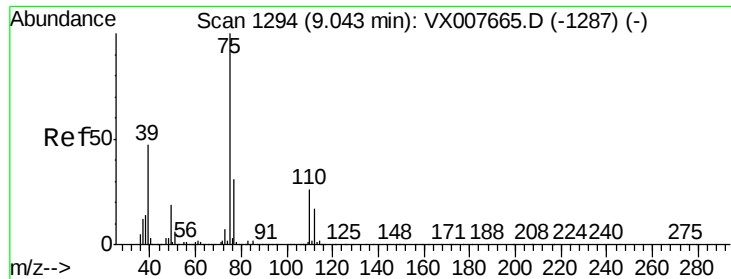
Tot Ion: 98 Resp: 722005
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 15.248 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

Tgt Ion: 43 Resp: 90492
Ion Ratio Lower Upper
43 100
58 9.0 31.2 46.8#





#53

t-1,3-Dichloropropene

Concen: 2.841 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampled :

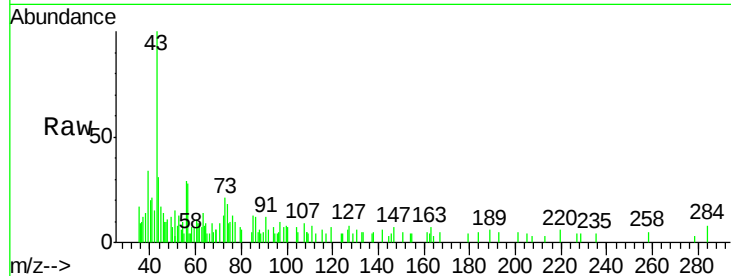
WV-B

Tot Ion: 75 Resp: 252

Ion Ratio Lower Upper

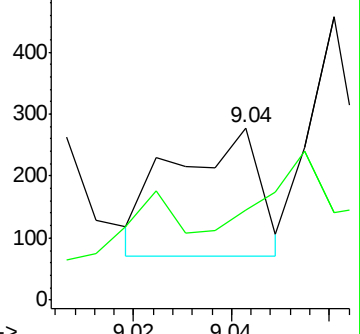
75 100

77 15.6 25.2 37.8#

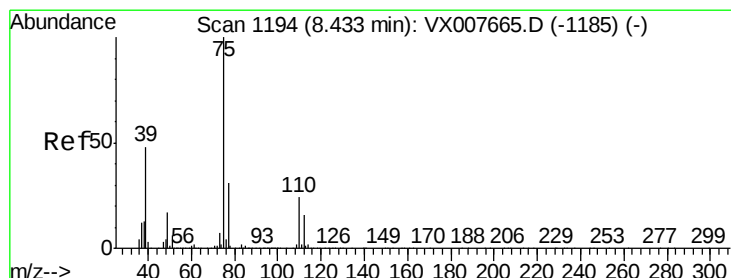
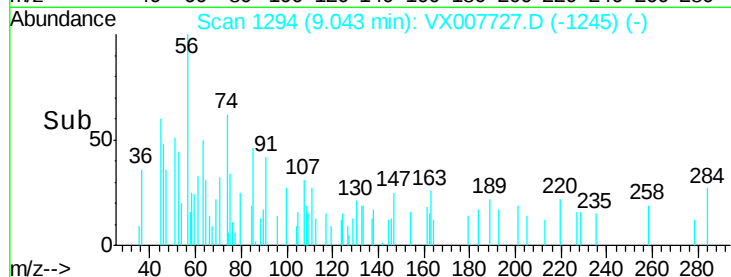


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.396 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

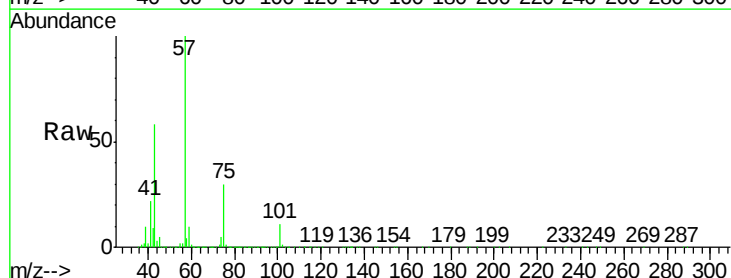
Tgt Ion: 75 Resp: 44997

Ion Ratio Lower Upper

75 100

77 1.1 26.2 39.4#

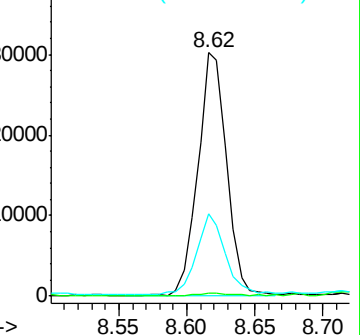
39 32.9 37.1 55.7#



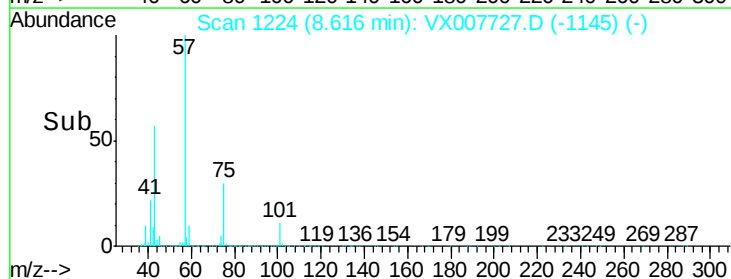
Abundance Ion 74.90 (74.60 to 75.60): VX0

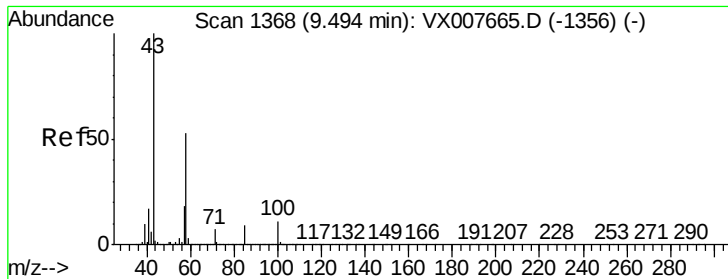
Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->

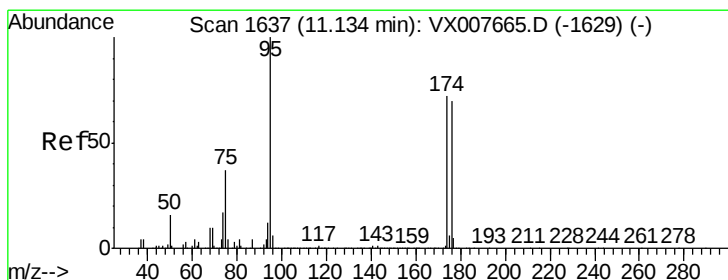
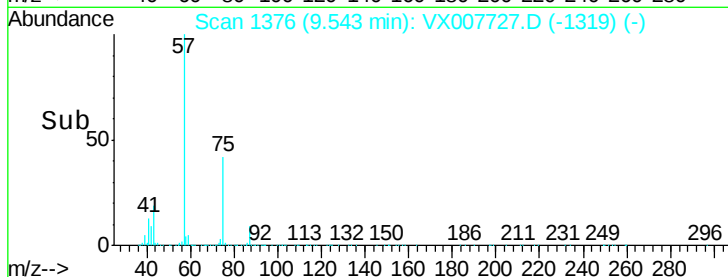
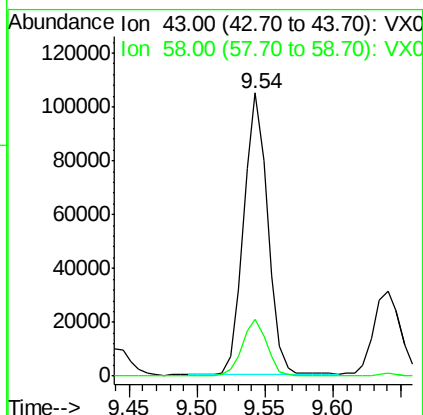
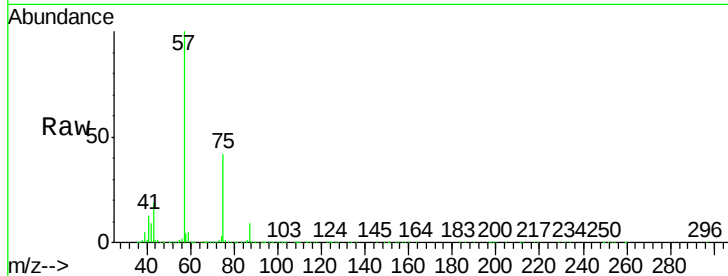




#59
2-Hexanone
Concen: 27.856 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

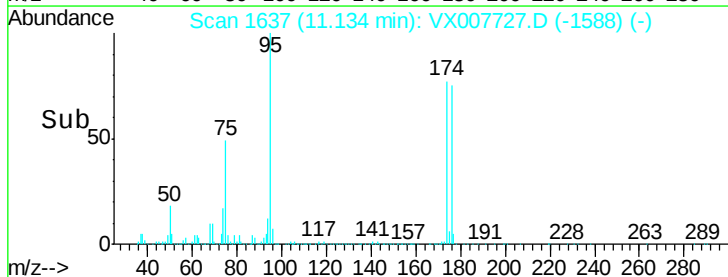
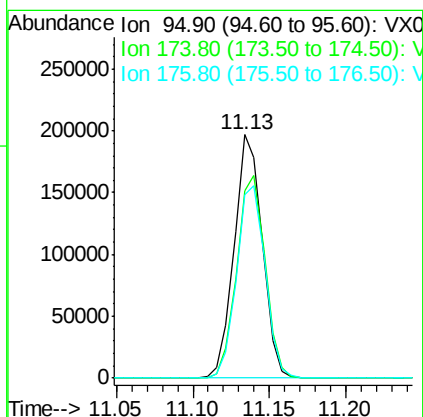
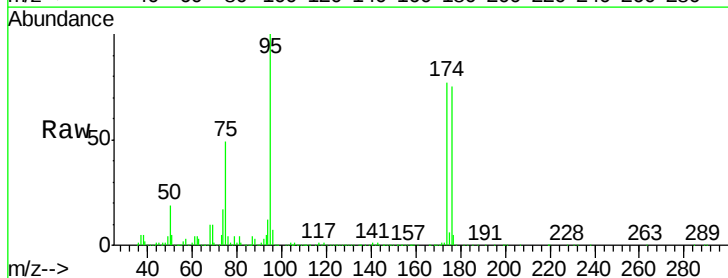
Instrument :
MSVOA_X
ClientSampleId :
WV-B

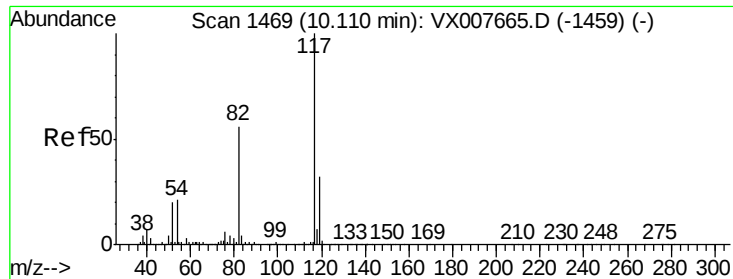
Tot Ion: 43 Resp: 129783
Ion Ratio Lower Upper
43 100
58 20.8 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 46.101 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

Tgt Ion: 95 Resp: 249771
Ion Ratio Lower Upper
95 100
174 84.9 0.0 189.2
176 80.9 0.0 186.2

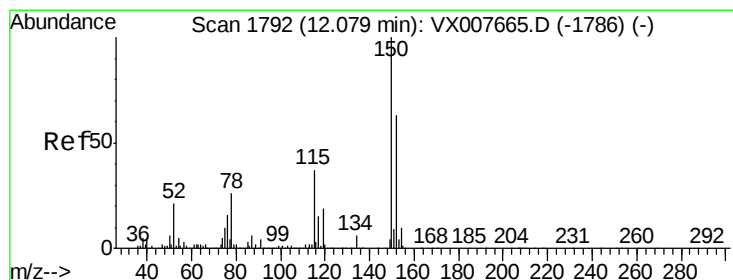
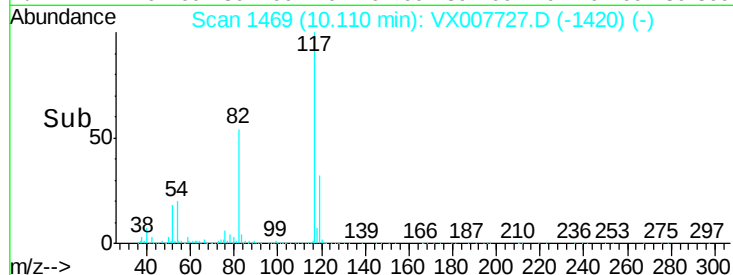
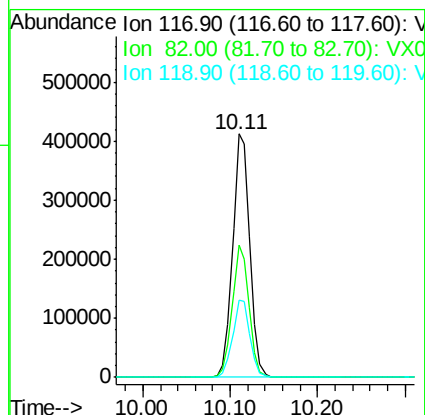
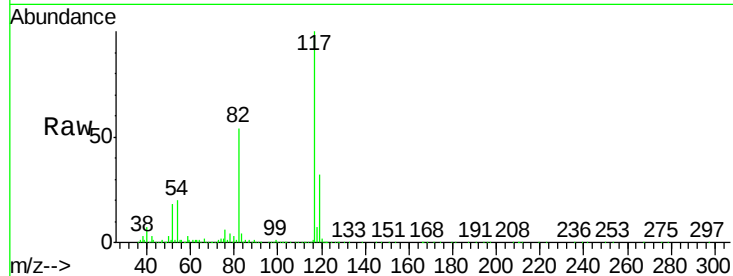




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

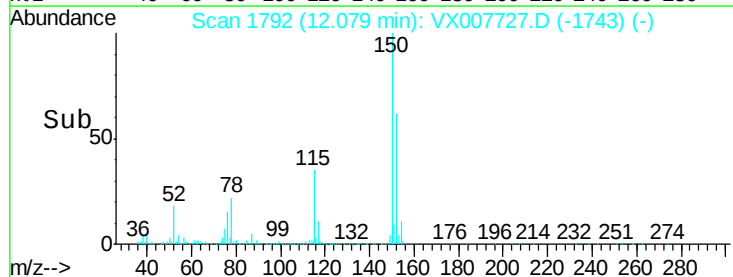
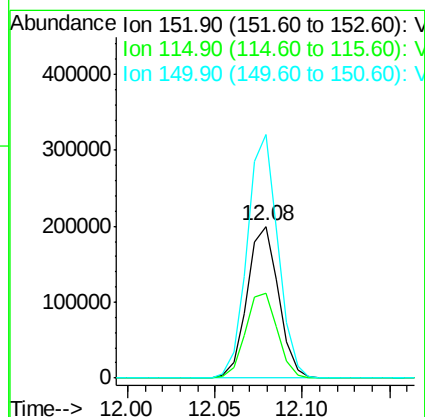
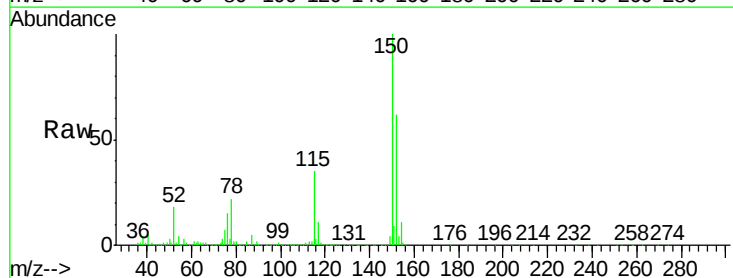
Instrument :
MSVOA_X
ClientSampled :
WV-B

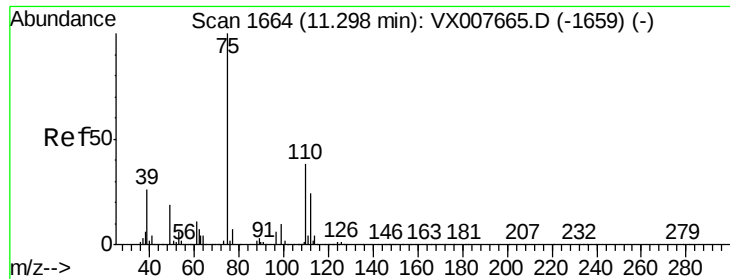
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.2	42.1	63.1
119	31.7	26.5	39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007727.D
Acq: 26 Feb 2019 21:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	38.0	114.0
150	157.7	0.0	346.4





#76

1,2,3-Trichloropropane

Concen: 23.008 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampled :

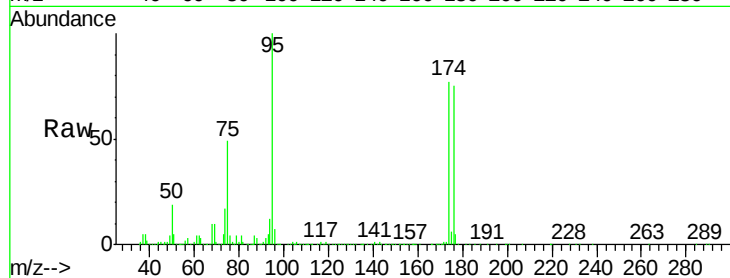
WV-B

Tot Ion: 75 Resp: 122201

Ion Ratio Lower Upper

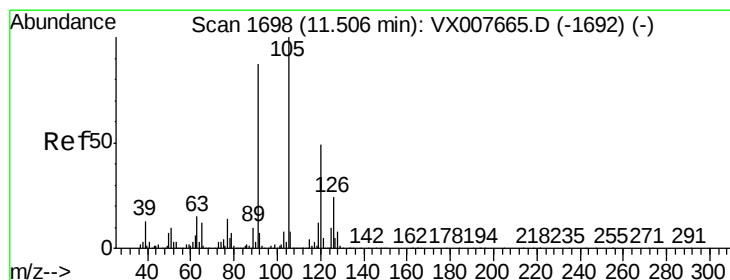
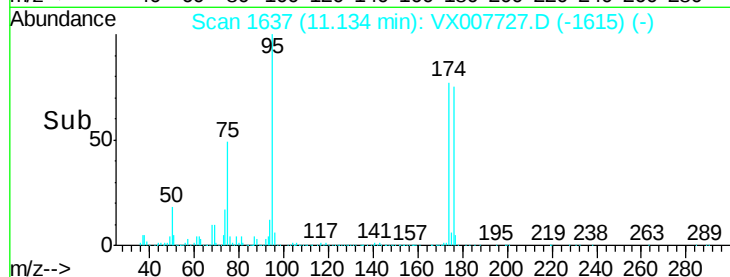
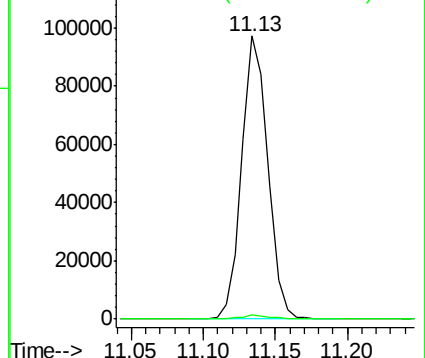
75 100

77 1.5 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 0.274 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007727.D

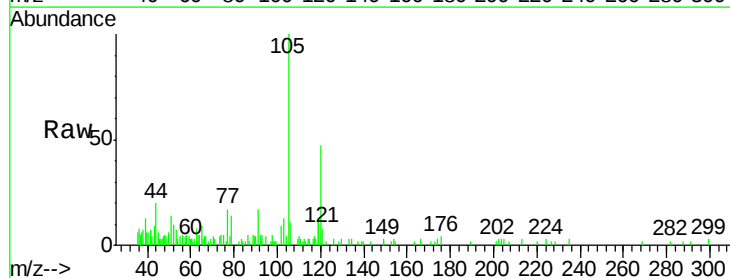
Acq: 26 Feb 2019 21:19

Tgt Ion:105 Resp: 4016

Ion Ratio Lower Upper

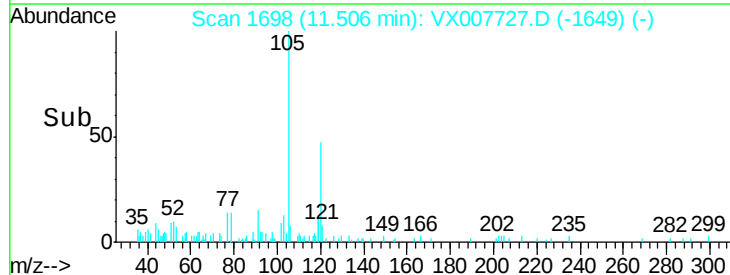
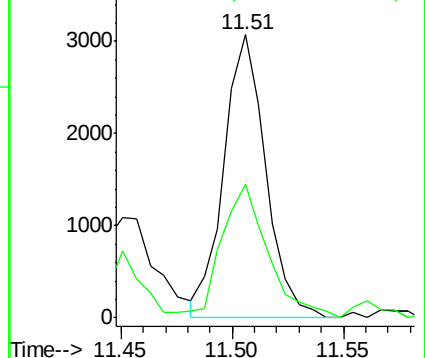
105 100

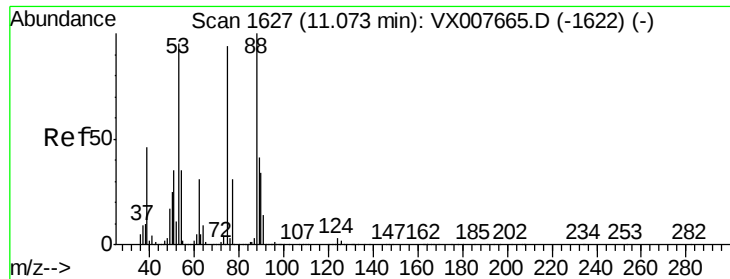
120 52.3 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 60.953 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampleId :

WV-B

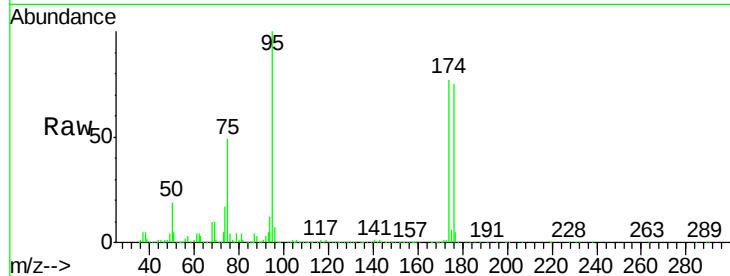
Tot Ion: 75 Resp: 122201

Ion Ratio Lower Upper

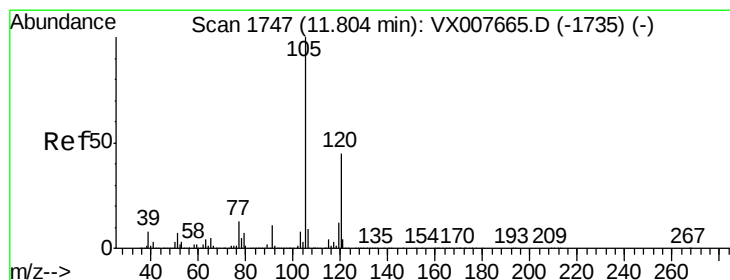
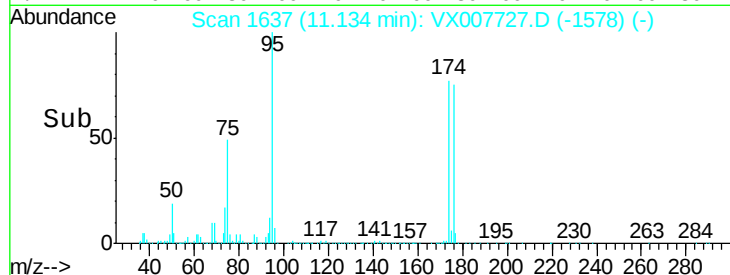
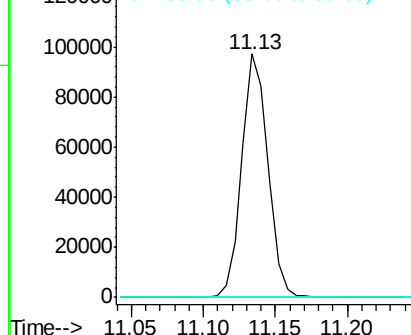
75 100

53 0.3 81.0 121.6#

89 0.2 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



#84

1,2,4-Trimethylbenzene

Concen: 0.479 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX007727.D

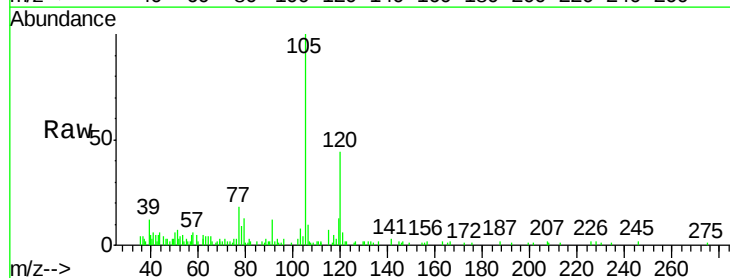
Acq: 26 Feb 2019 21:19

Tgt Ion: 105 Resp: 7170

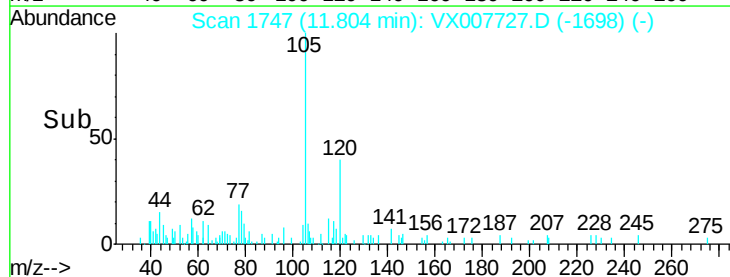
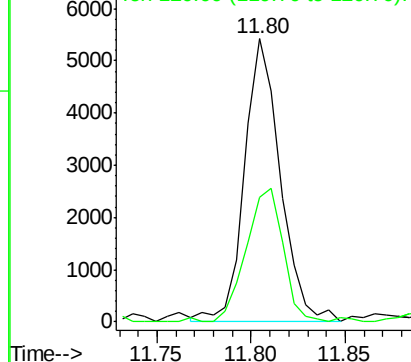
Ion Ratio Lower Upper

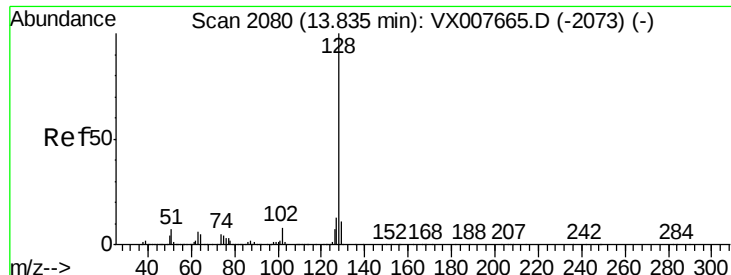
105 100

120 48.2 23.1 69.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 1.629 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007727.D

Acq: 26 Feb 2019 21:19

Instrument :

MSVOA_X

ClientSampleId :

WV-B

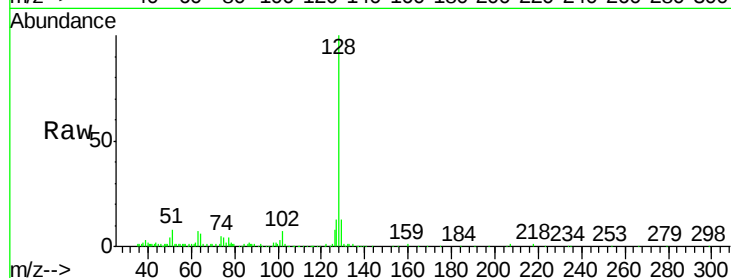
Tot Ion:128 Resp: 26702

Ion Ratio Lower Upper

128 100

127 15.3 10.5 15.7

129 12.8 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

