

Data File : VX011317.D
Acq On : 02 Aug 2019 20:01
Operator : JC/SP
Sample : K4119-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 28 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Z3-0690

Quant Time: Aug 03 05:47:12 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	138133	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	223420	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	212329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	95855	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	74875	53.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.66%	
35) Dibromofluoromethane	5.49	113	72231	49.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.04%	
50) Toluene-d8	8.71	98	270018	49.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.08%	
62) 4-Bromofluorobenzene	11.13	95	91611	46.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.20%	

Target Compounds

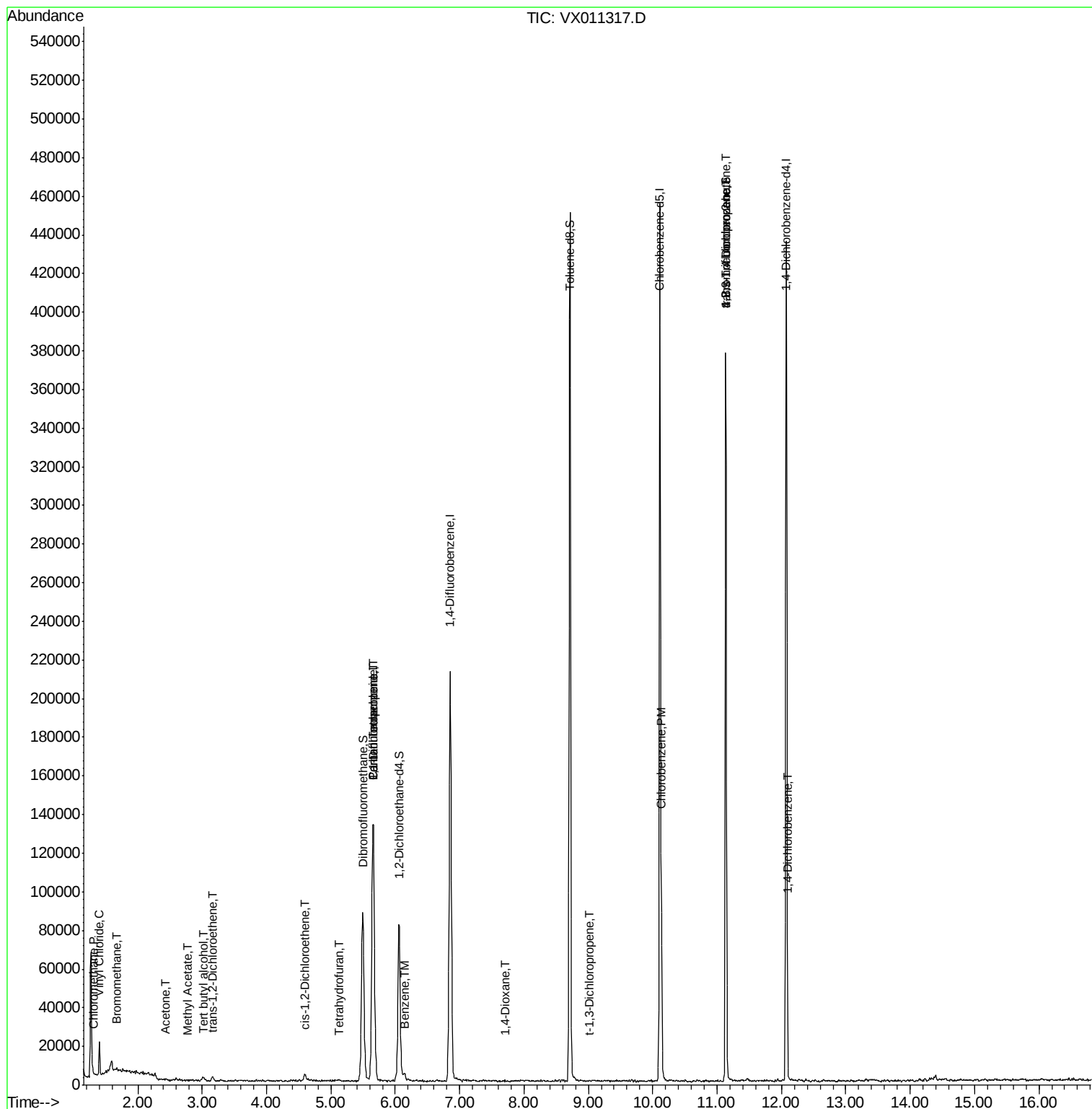
						Qvalue
3) Chloromethane	1.32	50	249	0.208	ug/l #	50
4) Vinyl Chloride	1.40	62	11316	8.587	ug/l	96
5) Bromomethane	1.66	94	448	0.477	ug/l #	67
6) Chloroethane	1.73	64	319	Below Cal	#	43
11) Tert butyl alcohol	3.02	59	1274	4.615	ug/l #	80
13) Acrolein	2.25	56	61	Below Cal	#	15
16) Acetone	2.43	43	465	0.702	ug/l	98
18) Methyl Acetate	2.78	43	594	0.393	ug/l #	61
21) trans-1,2-Dichloroethene	3.16	96	812	0.611	ug/l	92
27) cis-1,2-Dichloroethene	4.59	96	1944	1.269	ug/l	97
29) Tetrahydrofuran	5.12	42	129	0.223	ug/l #	40
36) 1,1-Dichloropropene	5.66	75	9197	4.715	ug/l #	45
38) Carbon Tetrachloride	5.66	117	12636	6.439	ug/l #	14
40) Benzene	6.13	78	3765	0.647	ug/l	98
49) 1,4-Dioxane	7.71	88	56	1.312	ug/l #	1
53) t-1,3-Dichloropropene	9.02	75	22	2.848	ug/l #	43
65) Chlorobenzene	10.13	112	32357	7.107	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	44177	25.307	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	44177	65.985	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	1143	0.345	ug/l #	26

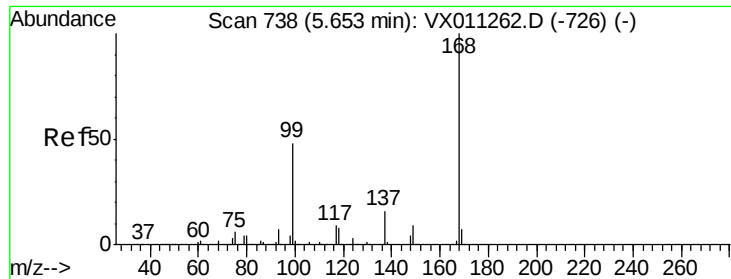
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

Instrument :

MSVOA_N

ClientSampled :

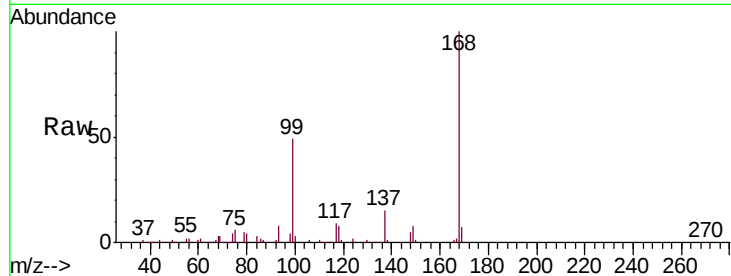
Z3-0690

Tgt Ion:168 Resp: 138133

Ion Ratio Lower Upper

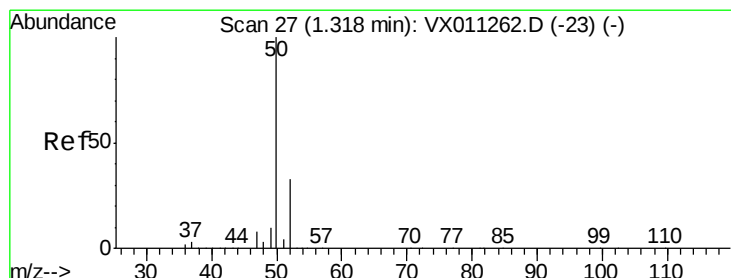
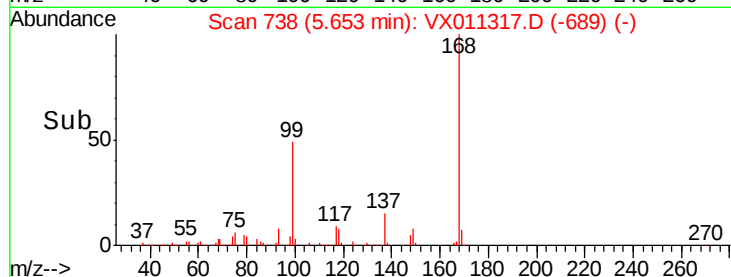
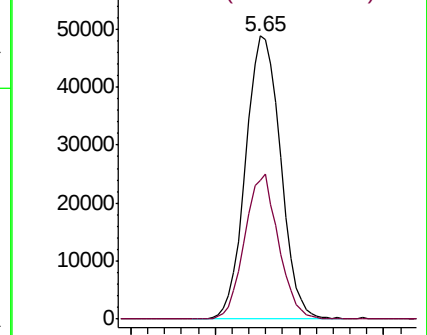
168 100

99 48.8 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.208 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.00 min

Lab File: VX011317.D

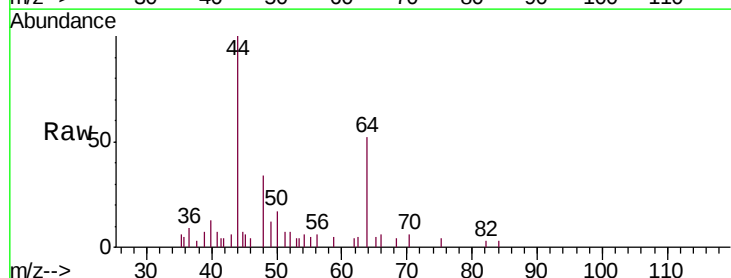
Acq: 02 Aug 2019 20:01

Tgt Ion: 50 Resp: 249

Ion Ratio Lower Upper

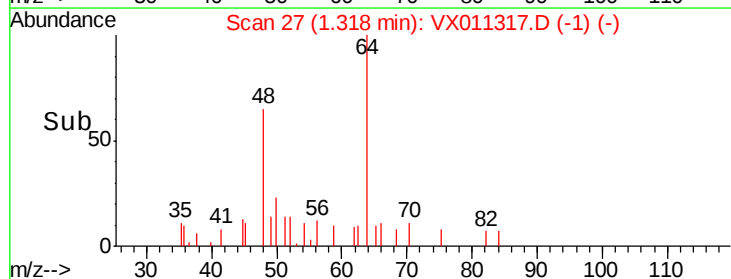
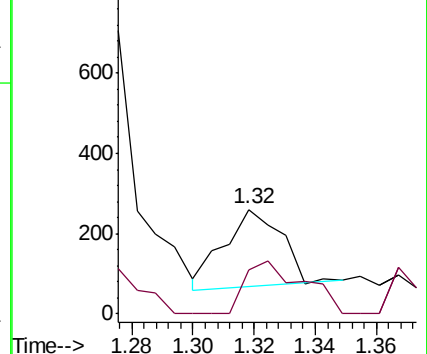
50 100

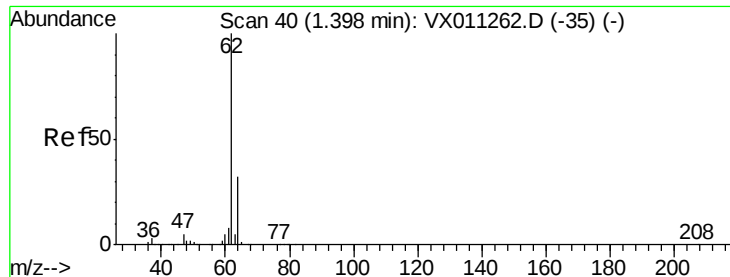
52 61.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 8.587 ug/l

RT: 1.40 min Scan# 40

Delta R.T. -0.00 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

Instrument :

MSVOA_N

ClientSampled :

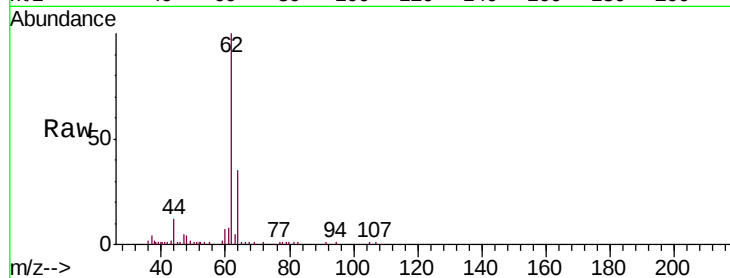
Z3-0690

Tgt Ion: 62 Resp: 11316

Ion Ratio Lower Upper

62 100

64 30.0 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

12000

10000

8000

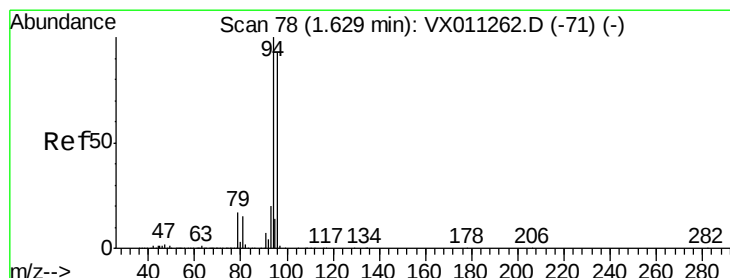
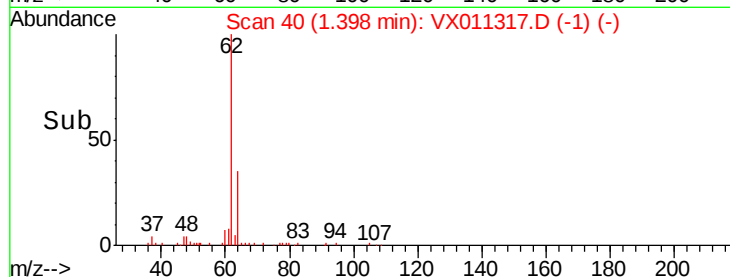
6000

4000

2000

0

Time-->



#5

Bromomethane

Concen: 0.477 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.03 min

Lab File: VX011317.D

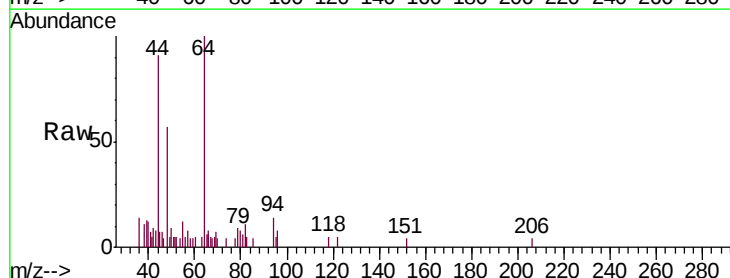
Acq: 02 Aug 2019 20:01

Tgt Ion: 94 Resp: 448

Ion Ratio Lower Upper

94 100

96 61.6 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

200

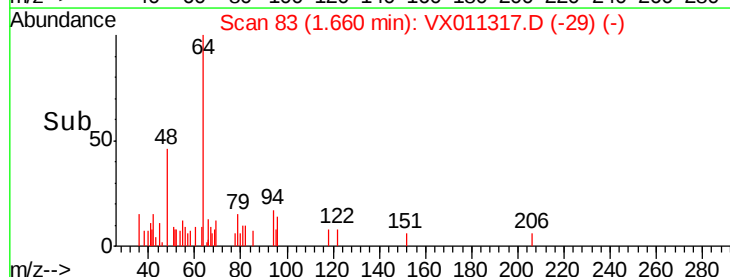
150

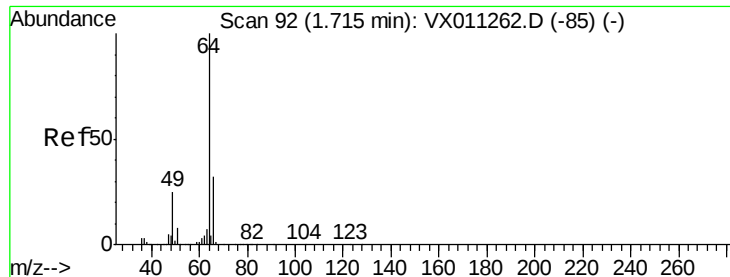
100

50

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

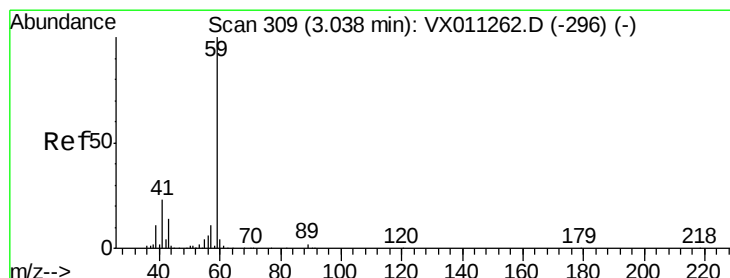
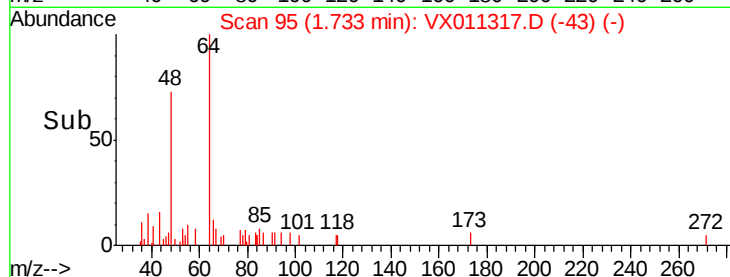
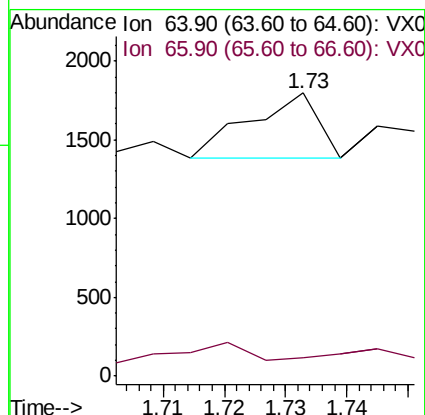
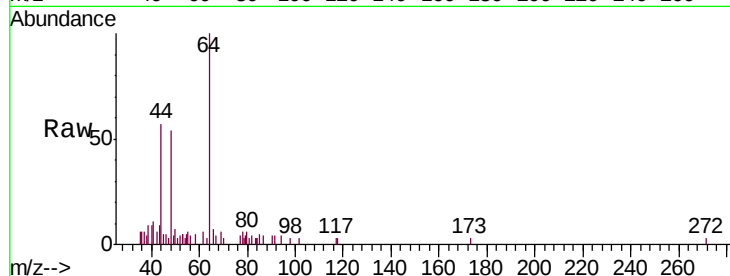
Z3-0690

Tgt Ion: 64 Resp: 319

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#11

Tert butyl alcohol

Concen: 4.615 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.02 min

Lab File: VX011317.D

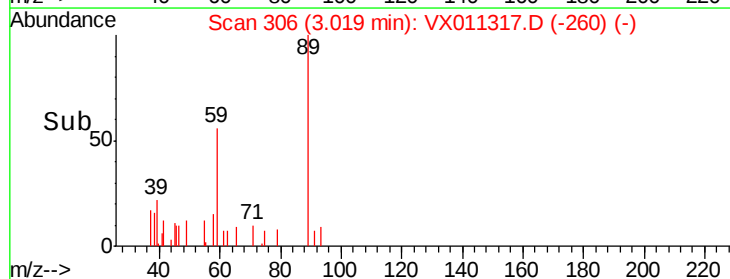
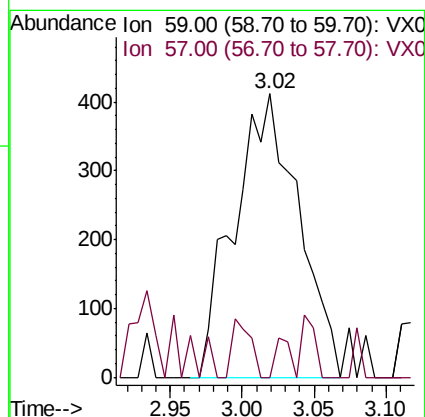
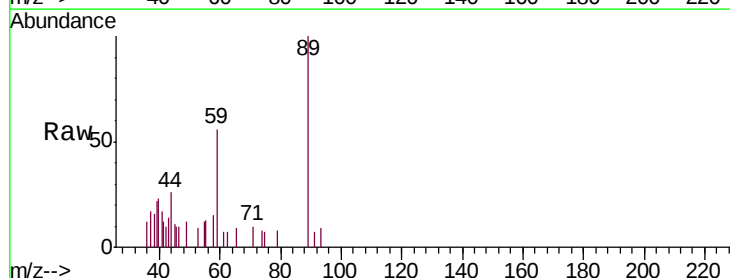
Acq: 02 Aug 2019 20:01

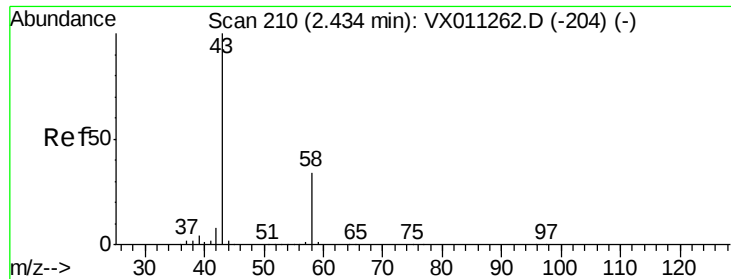
Tgt Ion: 59 Resp: 1274

Ion Ratio Lower Upper

59 100

57 3.1 8.3 12.5#





#16

Acetone

Concen: 0.702 ug/l

RT: 2.43 min Scan# 209

Delta R.T. -0.01 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

Instrument :

MSVOA_N

ClientSampled :

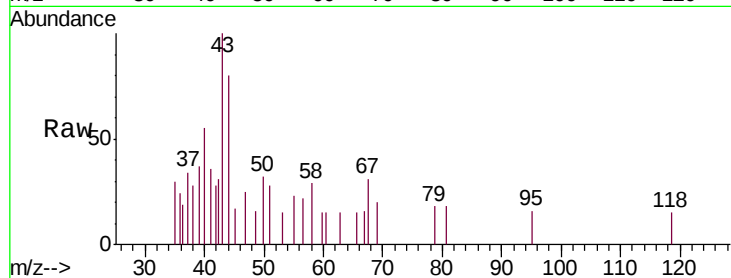
Z3-0690

Tgt Ion: 43 Resp: 465

Ion Ratio Lower Upper

43 100

58 35.2 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

300

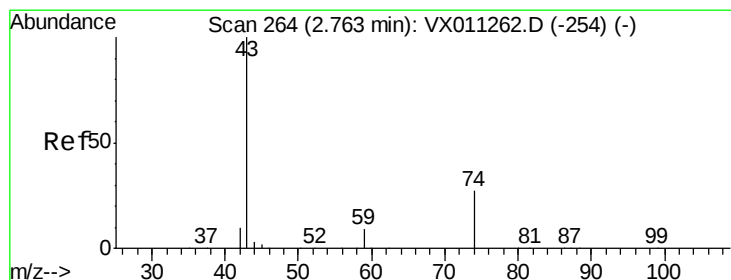
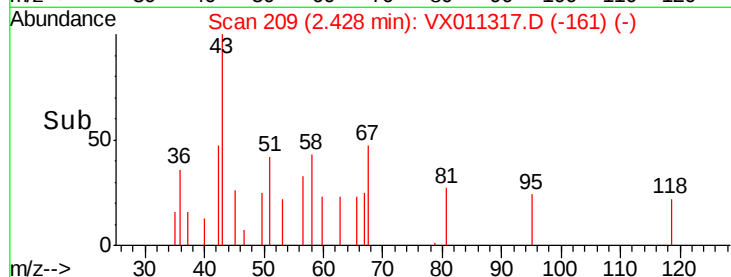
200

100

0

2.40 2.45

Time-->



#18

Methyl Acetate

Concen: 0.393 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX011317.D

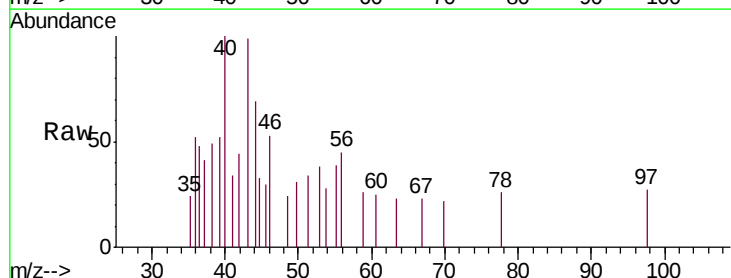
Acq: 02 Aug 2019 20:01

Tgt Ion: 43 Resp: 594

Ion Ratio Lower Upper

43 100

74 6.4 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

250

200

150

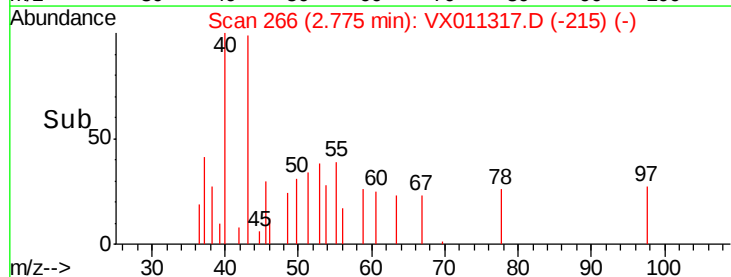
100

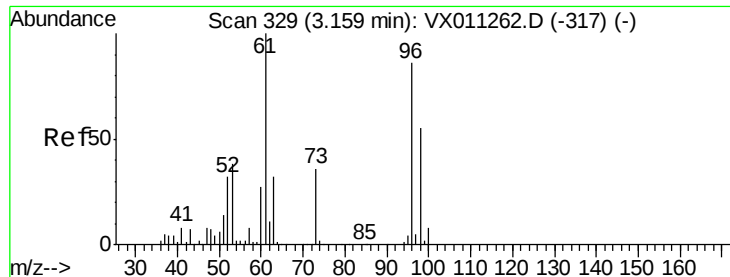
50

0

2.70 2.75 2.80

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.611 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.00 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

Z3-0690

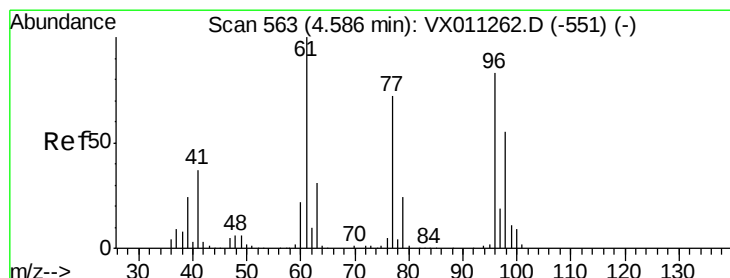
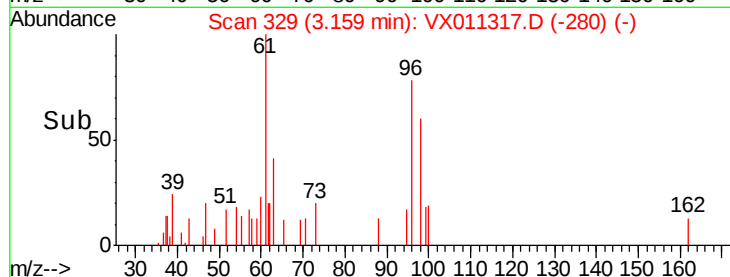
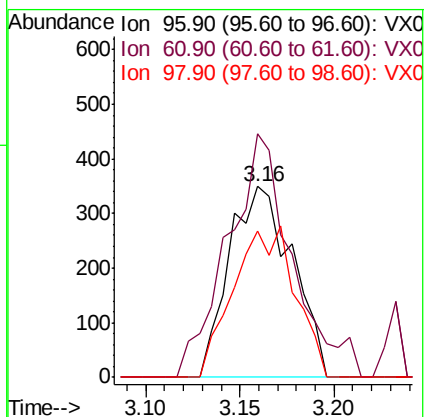
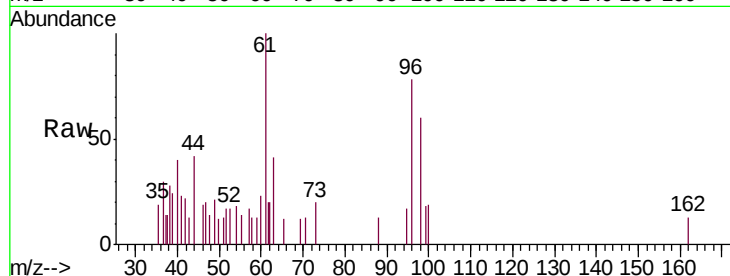
Tgt Ion: 96 Resp: 812

Ion Ratio Lower Upper

96 100

61 111.7 92.8 139.2

98 76.8 51.2 76.8



#27

cis-1,2-Dichloroethene

Concen: 1.269 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

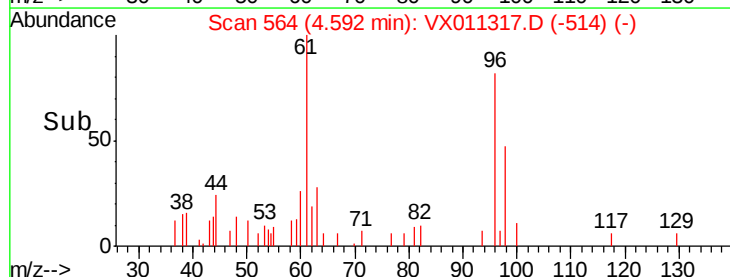
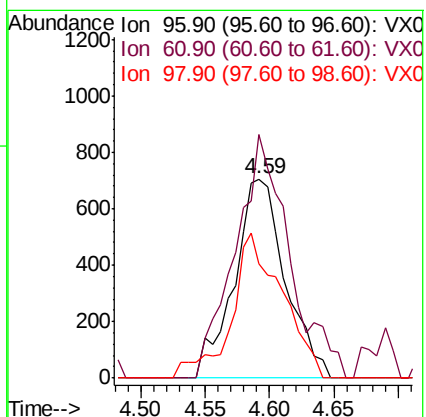
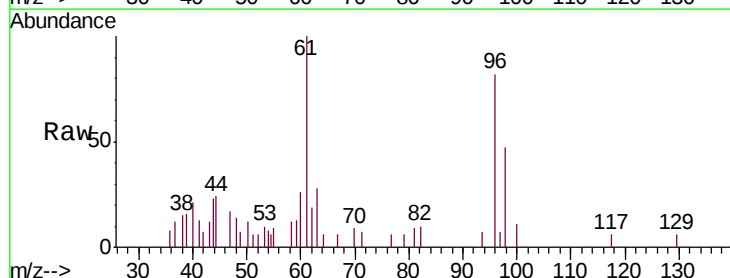
Tgt Ion: 96 Resp: 1944

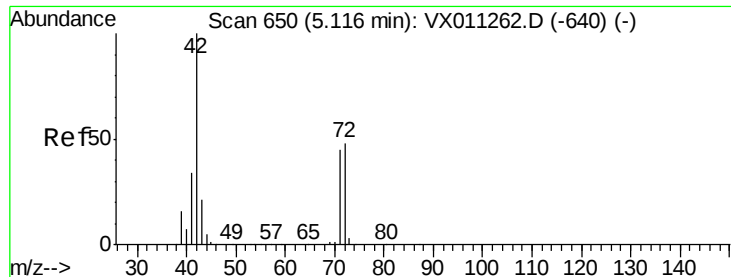
Ion Ratio Lower Upper

96 100

61 130.0 0.0 260.2

98 72.6 0.0 133.2

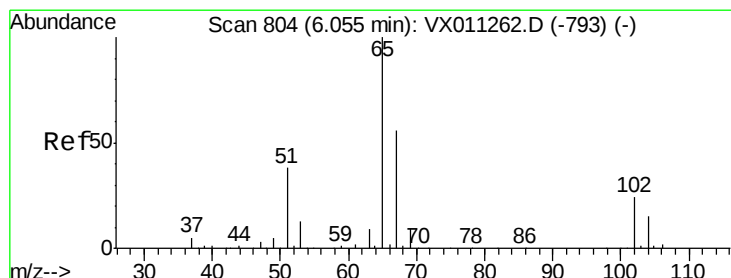
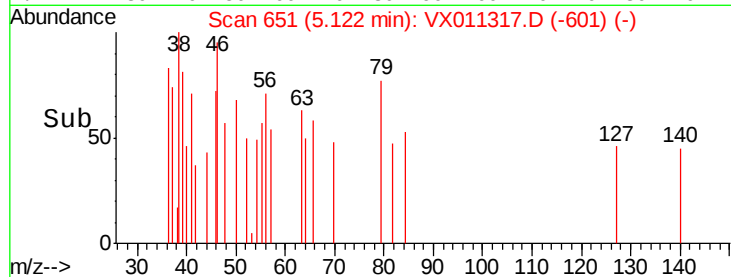
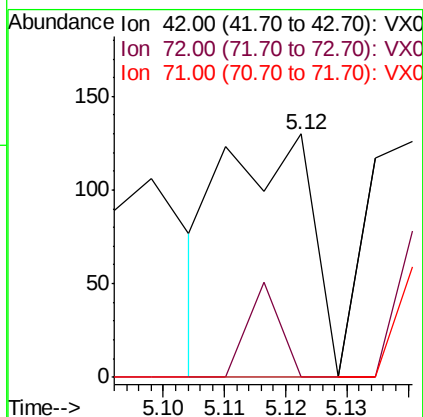
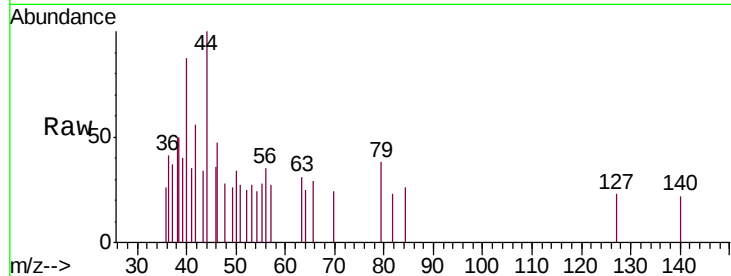




#29
Tetrahydrofuran
Concen: 0.223 ug/l
RT: 5.12 min Scan# 651
Delta R.T. 0.01 min
Lab File: VX011317.D
Acq: 02 Aug 2019 20:01

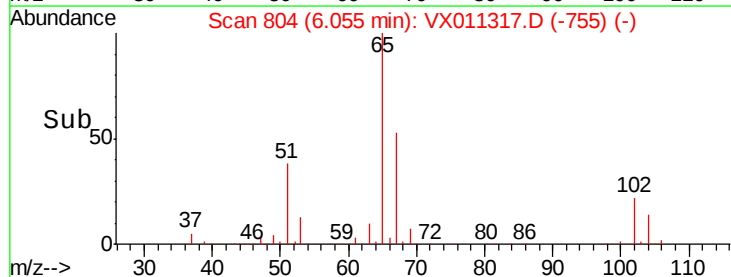
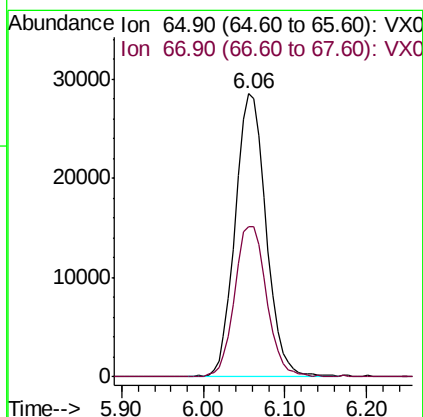
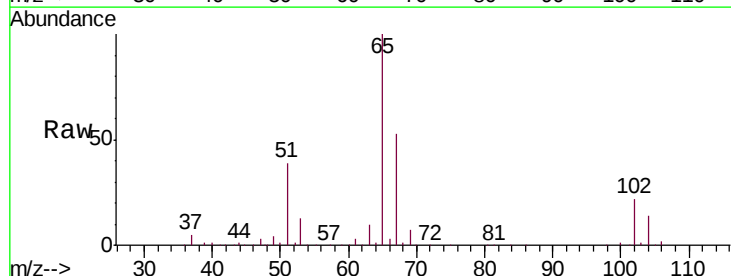
Instrument :
MSVOA_N
ClientSampleId :
Z3-0690

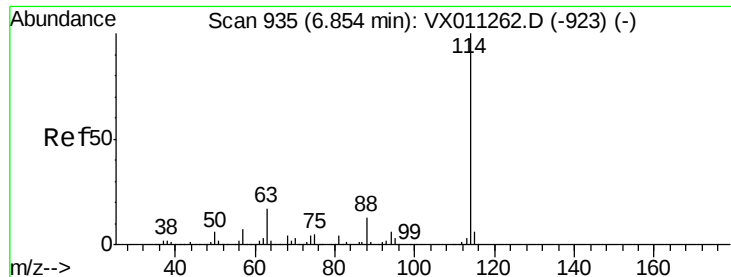
Tgt Ion: 42 Resp: 129
Ion Ratio Lower Upper
42 100
72 14.7 39.9 59.9#
71 0.0 36.9 55.3#



#33
1,2-Dichloroethane-d4
Concen: 53.825 ug/l
RT: 6.06 min Scan# 804
Delta R.T. -0.00 min
Lab File: VX011317.D
Acq: 02 Aug 2019 20:01

Tgt Ion: 65 Resp: 74875
Ion Ratio Lower Upper
65 100
67 55.2 0.0 110.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

Z3-0690

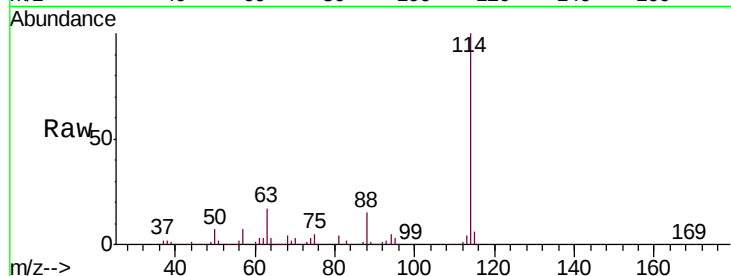
Tgt Ion:114 Resp: 223420

Ion Ratio Lower Upper

114 100

63 17.2 0.0 34.0

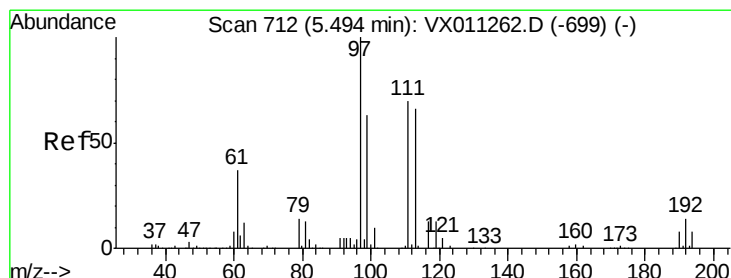
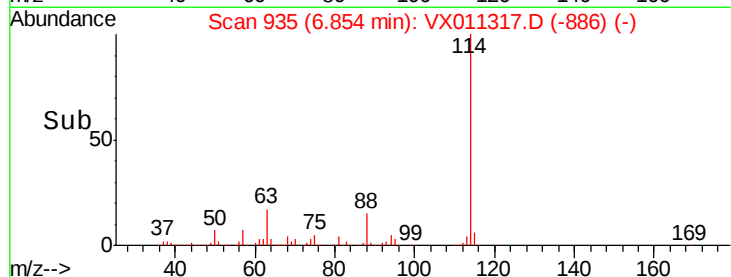
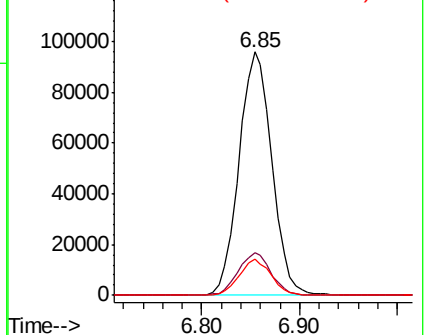
88 14.7 0.0 26.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.519 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

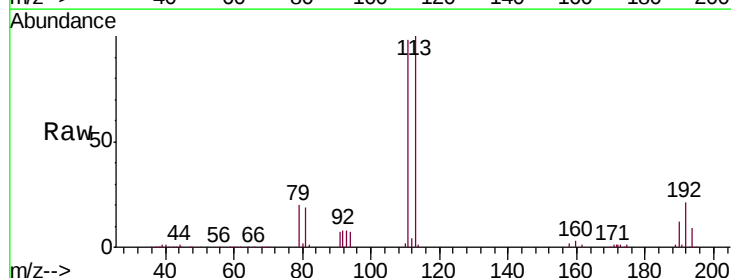
Tgt Ion:113 Resp: 72231

Ion Ratio Lower Upper

113 100

111 100.5 81.9 122.9

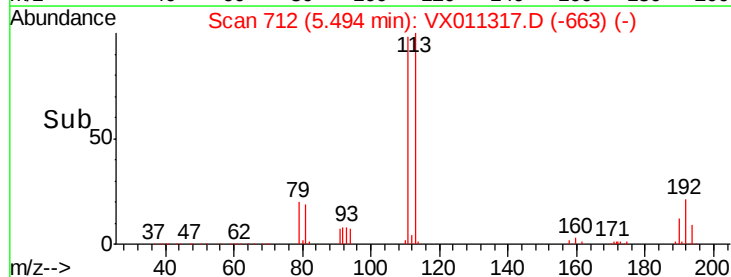
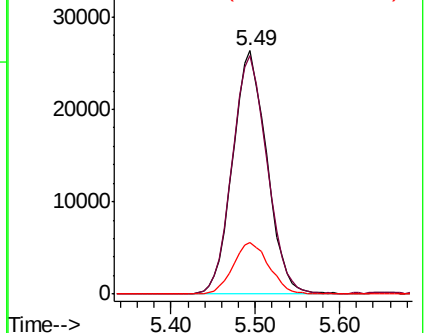
192 22.0 17.8 26.8

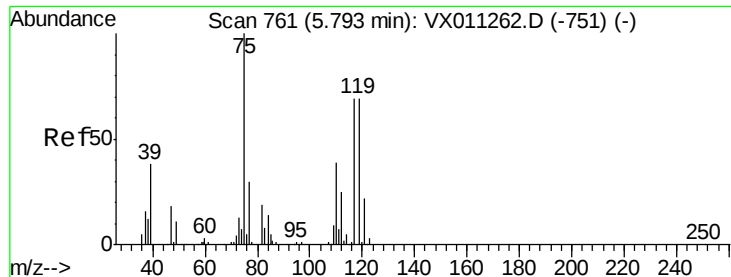


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

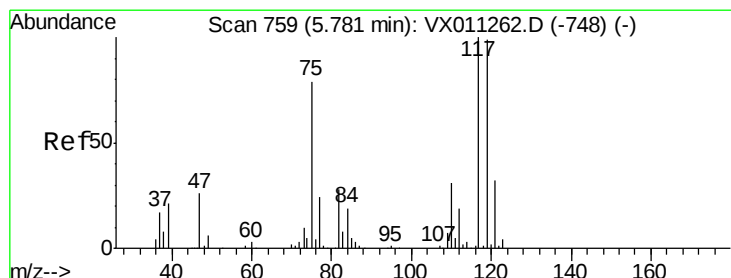
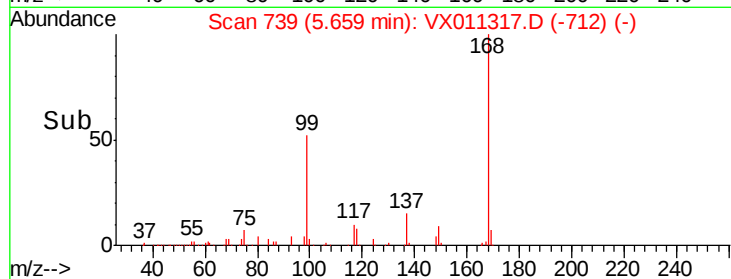
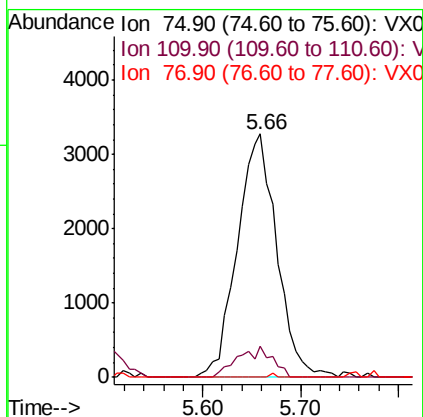
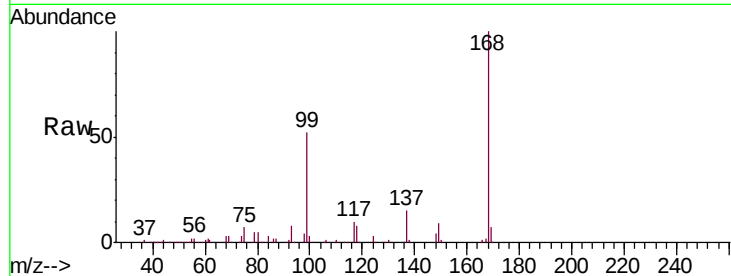




#36
 1,1-Dichloropropene
 Concen: 4.715 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011317.D
 Acq: 02 Aug 2019 20:01

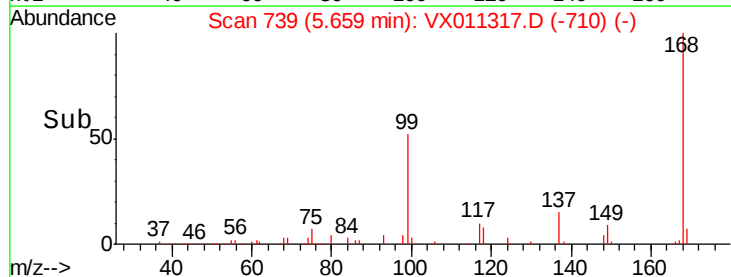
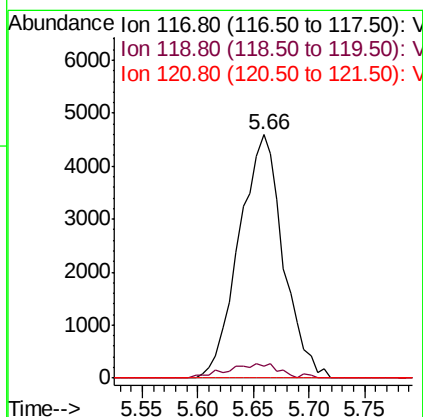
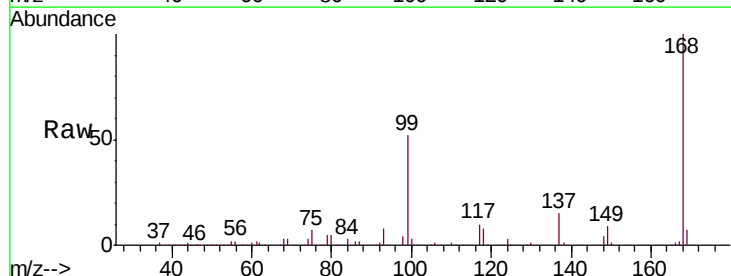
Instrument :
 MSVOA_N
 ClientSampleId :
 Z3-0690

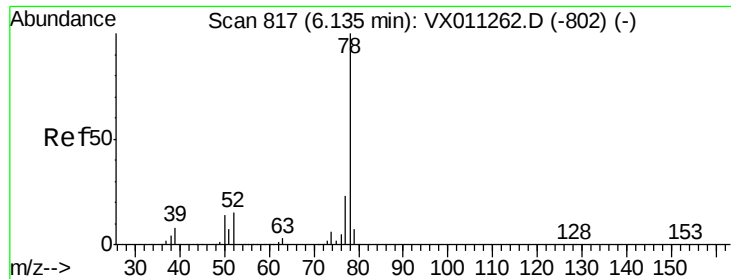
Tgt Ion: 75 Resp: 9197
 Ion Ratio Lower Upper
 75 100
 110 6.2 20.0 59.9#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.439 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX011317.D
 Acq: 02 Aug 2019 20:01

Tgt Ion: 117 Resp: 12636
 Ion Ratio Lower Upper
 117 100
 119 4.8 79.0 118.4#
 121 0.0 25.9 38.9#





#40

Benzene

Concen: 0.647 ug/l

RT: 6.13 min Scan# 817

Delta R.T. -0.00 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

Instrument :

MSVOA_N

ClientSampled :

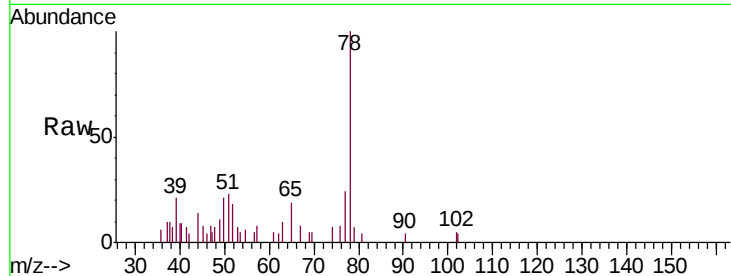
Z3-0690

Tgt Ion: 78 Resp: 3765

Ion Ratio Lower Upper

78 100

77 23.8 18.2 27.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.13

1500

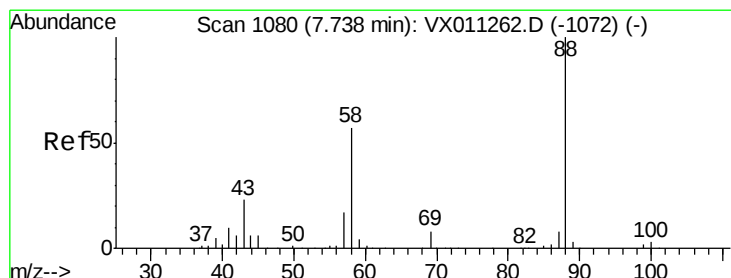
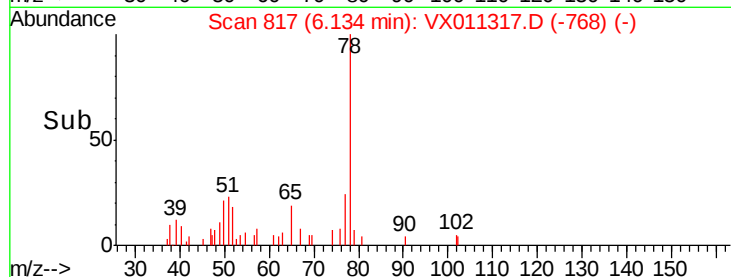
1000

500

0

Time-->

6.05 6.10 6.15 6.20



#49

1,4-Dioxane

Concen: 1.312 ug/l

RT: 7.71 min Scan# 1075

Delta R.T. -0.03 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

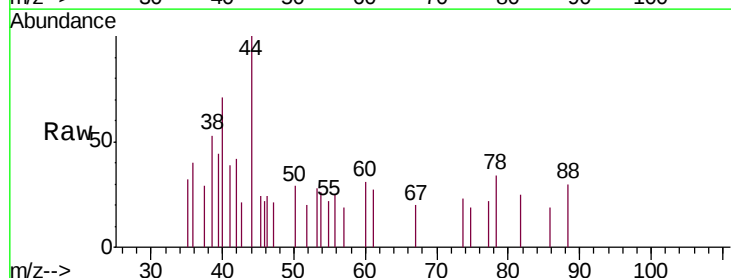
Tgt Ion: 88 Resp: 56

Ion Ratio Lower Upper

88 100

43 137.5 22.2 33.2#

58 0.0 47.8 71.8#



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

120

100

80

60

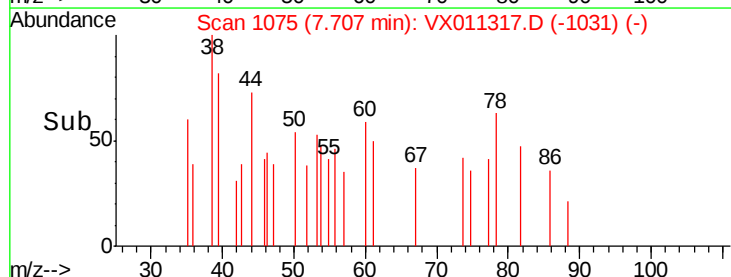
40

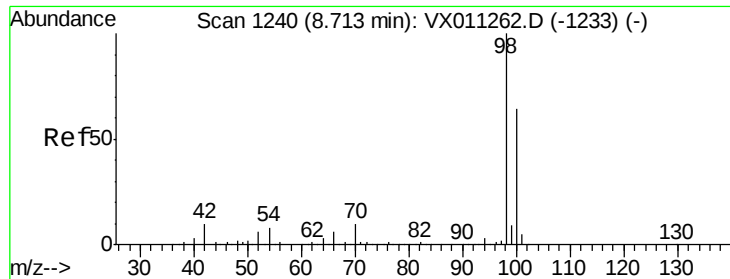
20

0

Time-->

7.68 7.70 7.72





#50

Toluene-d8

Concen: 49.041 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

Instrument :

MSVOA_N

ClientSampleId :

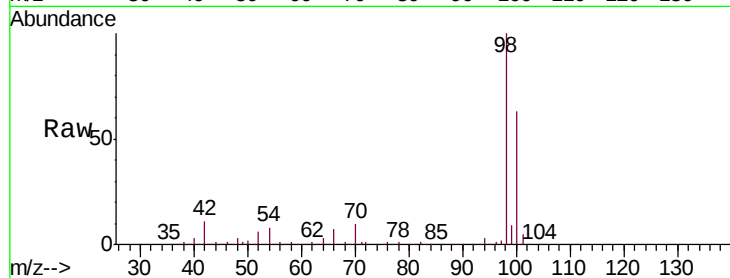
Z3-0690

Tgt Ion: 98 Resp: 270018

Ion Ratio Lower Upper

98 100

100 63.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

200000

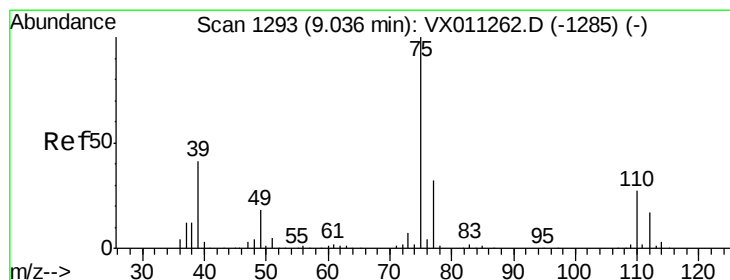
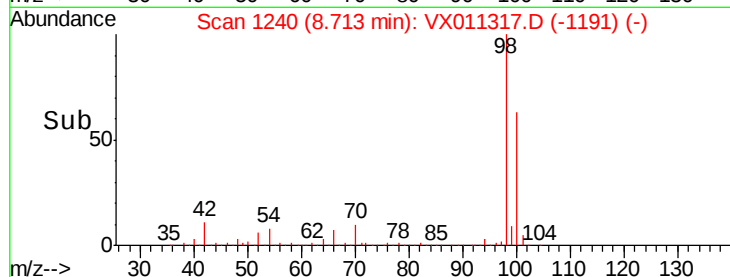
150000

100000

50000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 2.848 ug/l

RT: 9.02 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VX011317.D

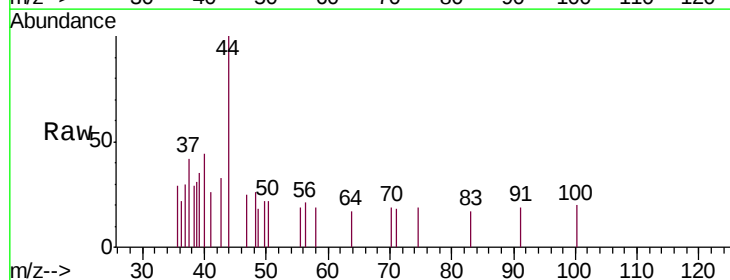
Acq: 02 Aug 2019 20:01

Tgt Ion: 75 Resp: 22

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

9.02

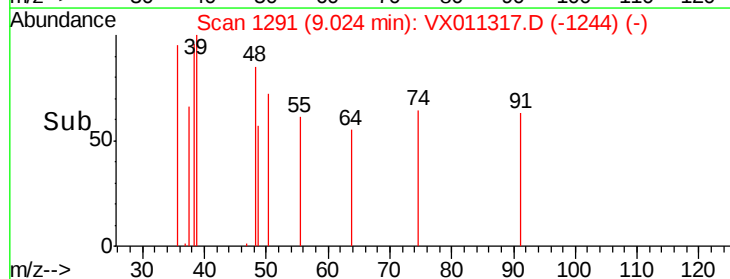
60

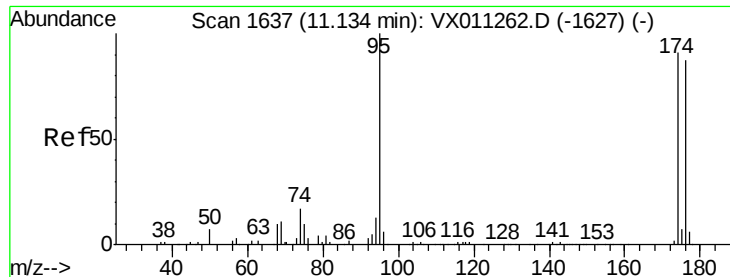
40

20

0

Time-->

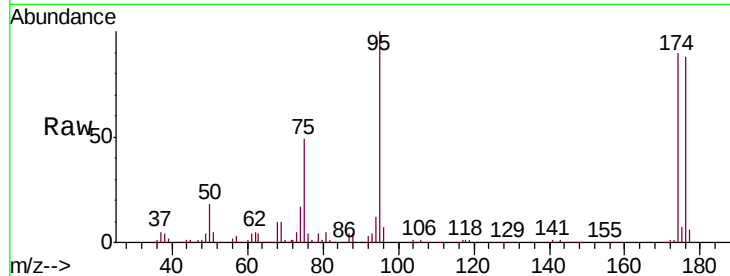




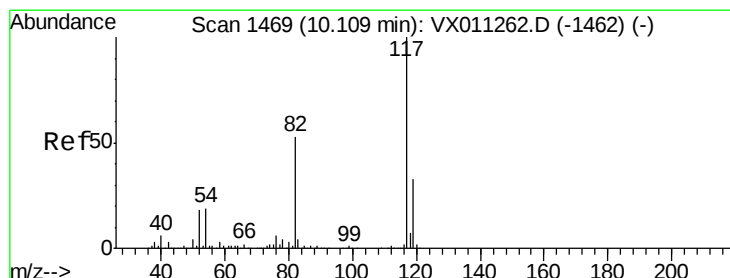
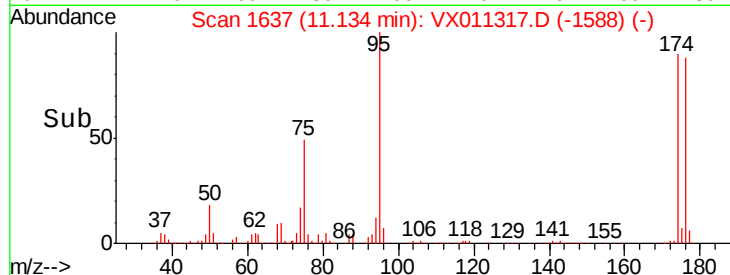
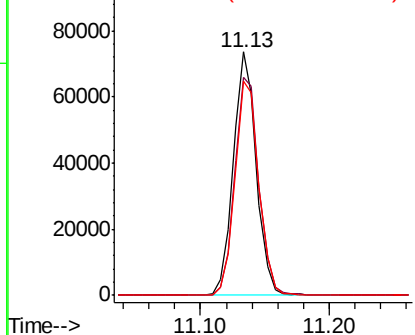
#62
4-Bromofluorobenzene
Concen: 46.603 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011317.D
Acq: 02 Aug 2019 20:01

Instrument :
MSVOA_N
ClientSampleId :
Z3-0690

Tgt Ion: 95 Resp: 91611
Ion Ratio Lower Upper
95 100
174 93.4 0.0 191.2
176 90.9 0.0 184.8

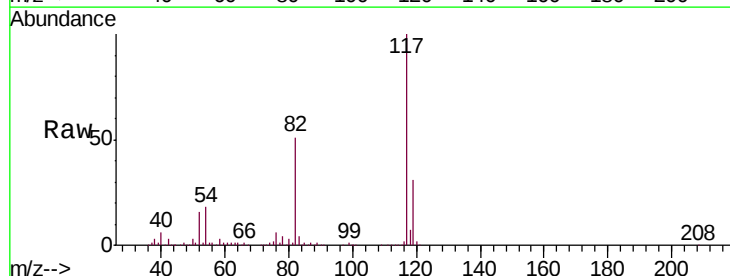


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

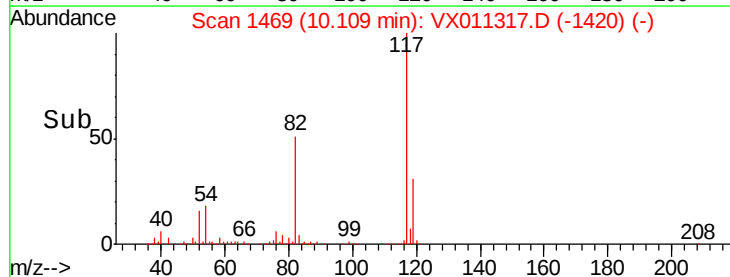
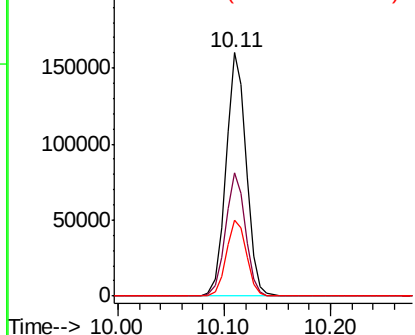


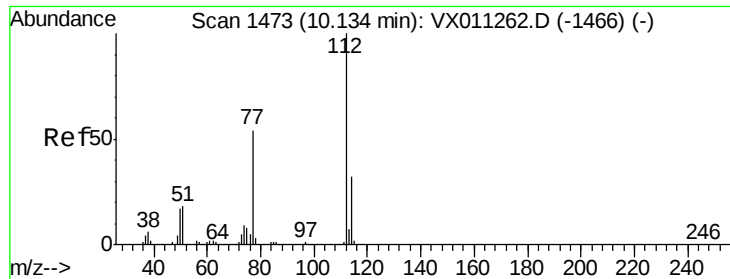
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011317.D
Acq: 02 Aug 2019 20:01

Tgt Ion: 117 Resp: 212329
Ion Ratio Lower Upper
117 100
82 50.7 42.2 63.2
119 31.0 26.6 39.8



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

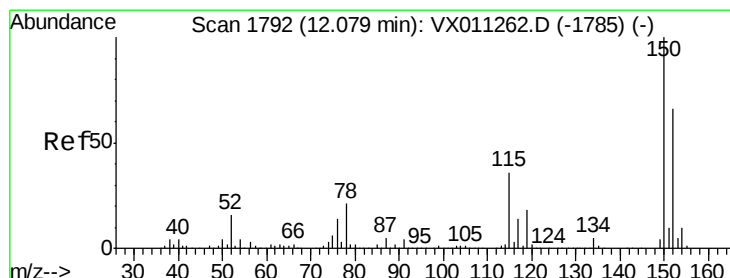
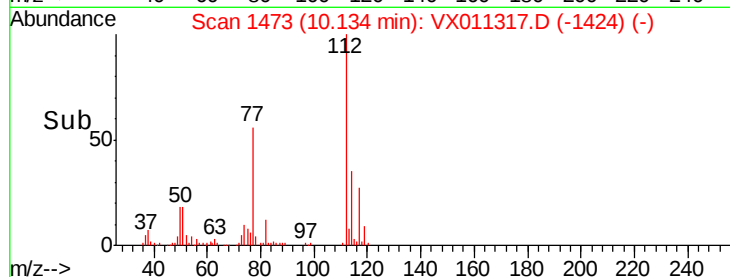
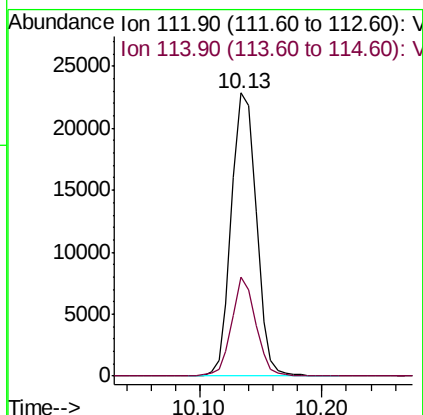
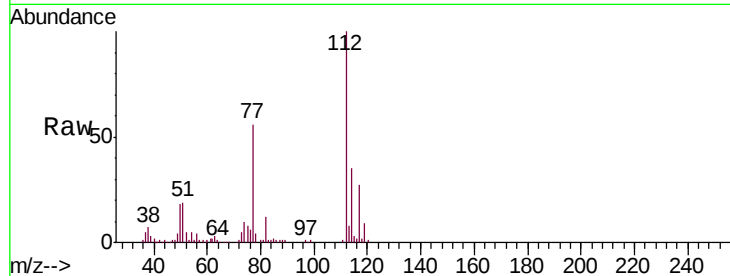




#65
Chlorobenzene
Concen: 7.107 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VX011317.D
Acq: 02 Aug 2019 20:01

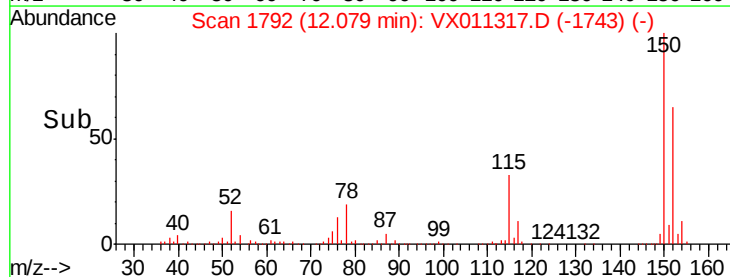
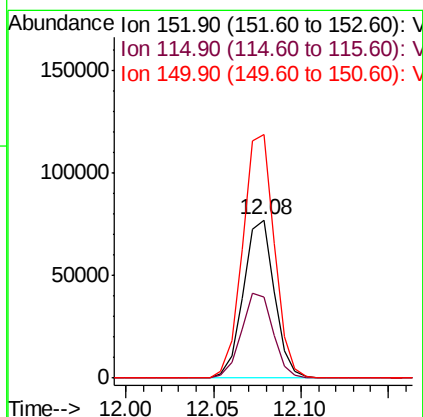
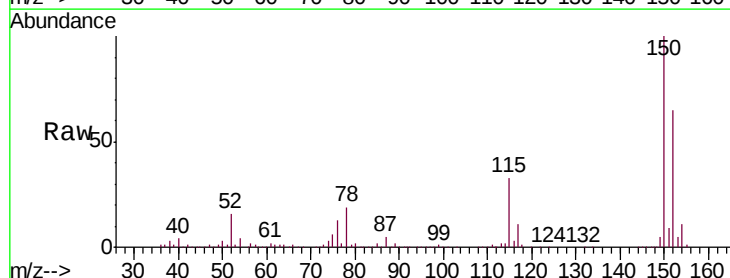
Instrument :
MSVOA_N
ClientSampled :
Z3-0690

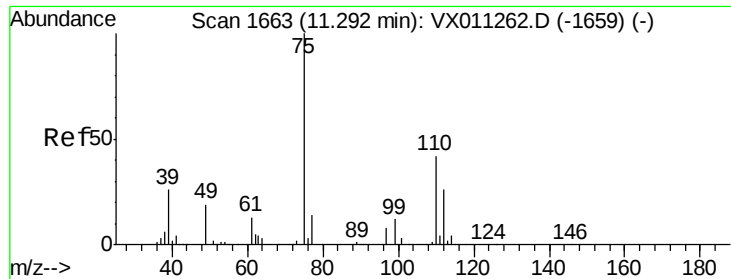
Tgt Ion:112 Resp: 32357
Ion Ratio Lower Upper
112 100
114 35.0 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011317.D
Acq: 02 Aug 2019 20:01

Tgt Ion:152 Resp: 95855
Ion Ratio Lower Upper
152 100
115 54.5 40.0 119.9
150 157.6 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 25.307 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

Instrument :

MSVOA_N

ClientSampled :

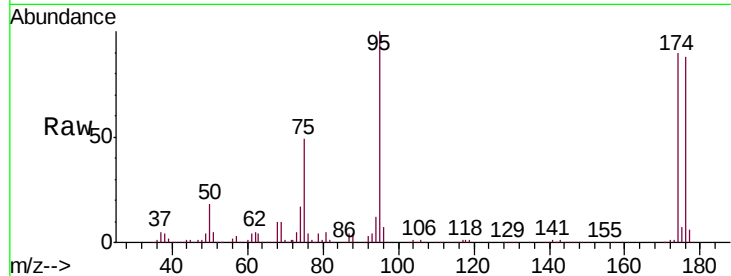
Z3-0690

Tgt Ion: 75 Resp: 44177

Ion Ratio Lower Upper

75 100

77 1.2 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

40000

30000

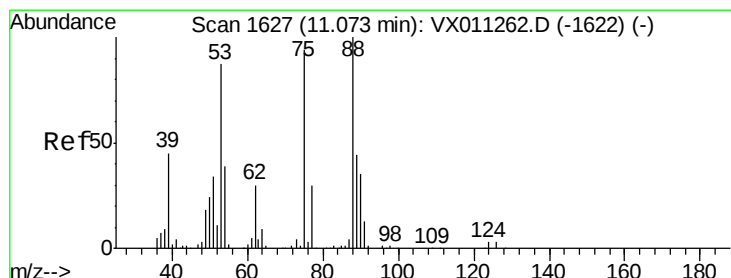
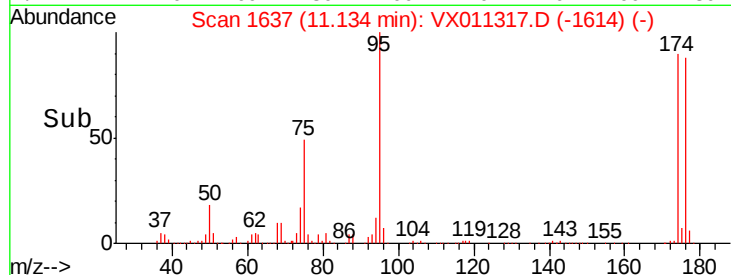
20000

10000

0

Time-->

11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 65.985 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011317.D

Acq: 02 Aug 2019 20:01

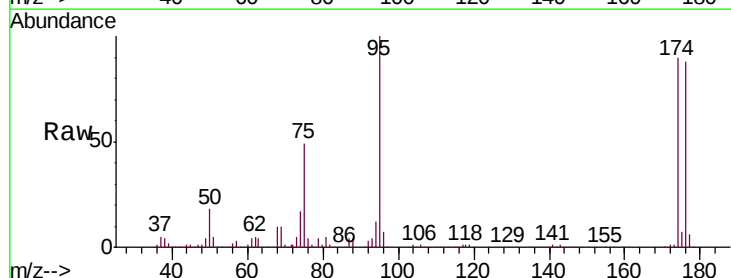
Tgt Ion: 75 Resp: 44177

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.4#

89 0.0 37.9 56.9#



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

50000

40000

30000

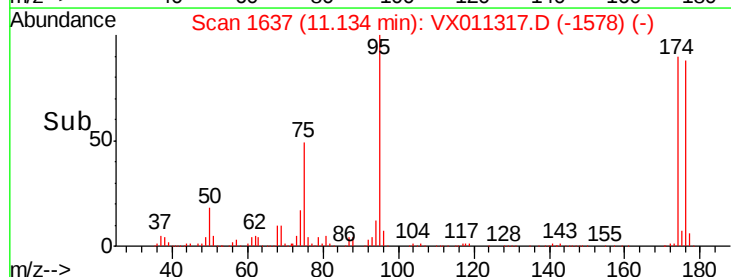
20000

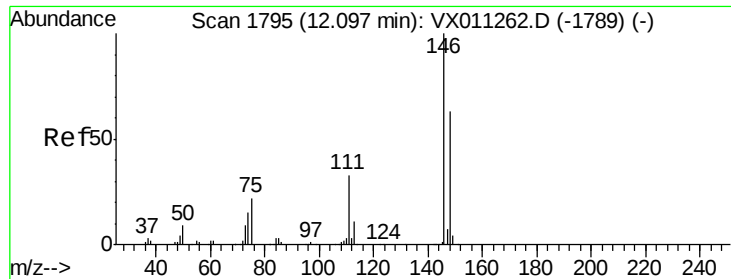
10000

0

Time-->

11.10 11.15 11.20





#88
 1,4-Dichlorobenzene
 Concen: 0.345 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX011317.D
 Acq: 02 Aug 2019 20:01

Instrument :
 MSVOA_N
 ClientSampleId :
 Z3-0690

Tgt Ion:146 Resp: 1143
 Ion Ratio Lower Upper
 146 100
 111 0.0 17.8 53.4#
 148 0.0 31.8 95.3#

