

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081219\
 Data File : VX011491.D
 Acq On : 12 Aug 2019 18:13
 Operator : JC/SP
 Sample : K4278-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0691

Quant Time: Aug 13 07:41:15 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	5.66	168	183921	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	273786	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244915	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	111148	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	101776	54.95	ug/l	0.00
Spiked Amount			Recovery	=	109.90%	
35) Dibromofluoromethane	5.49	113	84904	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	
50) Toluene-d8	8.71	98	321243	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
62) 4-Bromofluorobenzene	11.13	95	105567	43.82	ug/l	0.00
Spiked Amount			Recovery	=	87.64%	

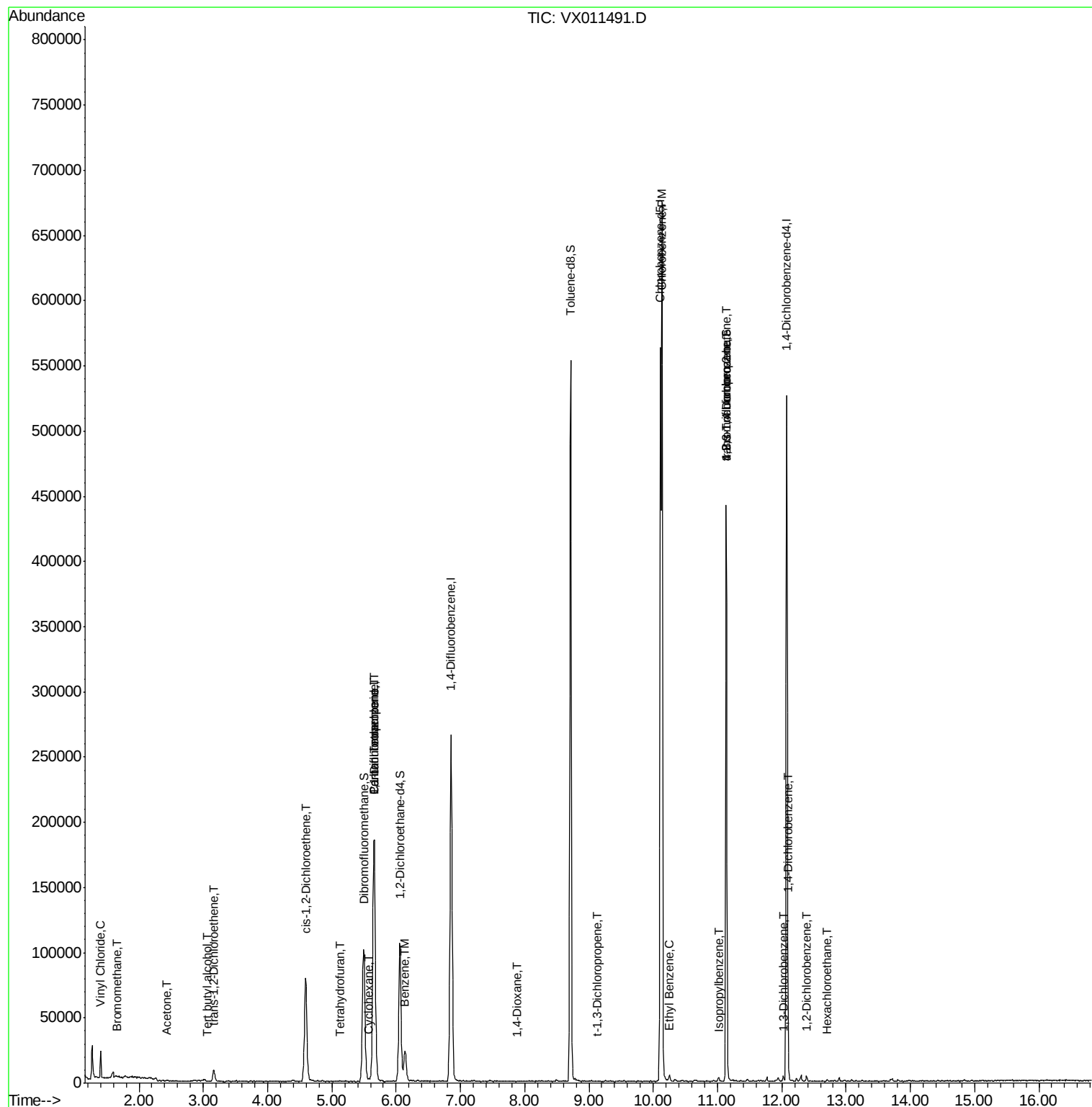
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	12590	7.175	ug/l	97
5) Bromomethane	1.65	94	306	0.245	ug/l #	75
6) Chloroethane	1.69	64	289	Below Cal	#	43
11) Tert butyl alcohol	3.07	59	107	0.312	ug/l #	1
13) Acrolein	2.28	56	22	Below Cal	#	15
16) Acetone	2.43	43	1063	1.206	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	3415	1.929	ug/l #	83
27) cis-1,2-Dichloroethene	4.59	96	53262	26.123	ug/l	94
29) Tetrahydrofuran	5.12	42	211	0.274	ug/l #	38
31) Cyclohexane	5.57	56	666	0.279	ug/l #	81
36) 1,1-Dichloropropene	5.65	75	12573	5.260	ug/l #	49
38) Carbon Tetrachloride	5.65	117	17160	7.135	ug/l #	15
40) Benzene	6.14	78	27553	3.863	ug/l	94
49) 1,4-Dioxane	7.88	88	52	0.994	ug/l #	1
53) t-1,3-Dichloropropene	9.13	75	24	2.847	ug/l #	43
65) Chlorobenzene	10.13	112	288281	54.897	ug/l	99
67) Ethyl Benzene	10.25	91	2292	0.261	ug/l	96
73) Isopropylbenzene	11.01	105	1658	0.218	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	53702	26.531	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	53702	68.957	ug/l #	10
87) 1,3-Dichlorobenzene	12.02	146	1107	0.297	ug/l	86
88) 1,4-Dichlorobenzene	12.10	146	10038	2.614	ug/l	84
90) Hexachloroethane	12.70	117	230	0.226	ug/l #	8
91) 1,2-Dichlorobenzene	12.39	146	794	0.212	ug/l	93

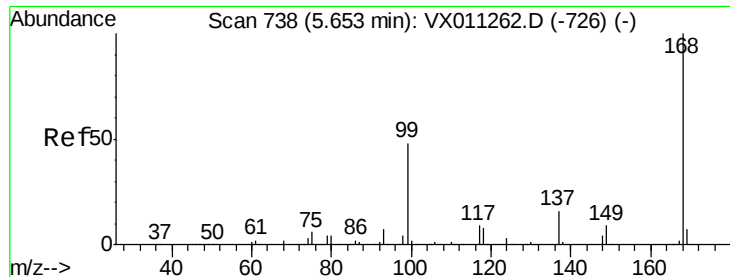
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampleId :

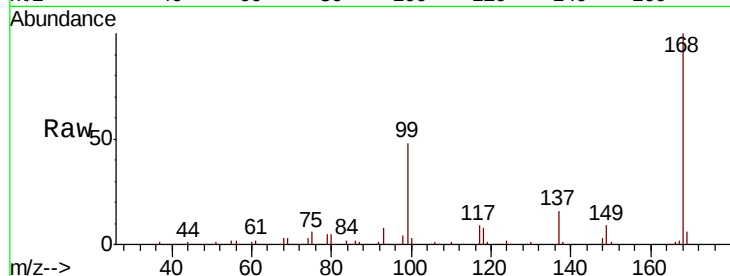
Z3-0691

Tgt Ion:168 Resp: 183921

Ion Ratio Lower Upper

168 100

99 47.8 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

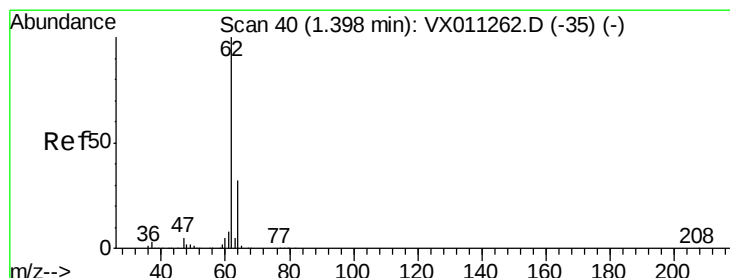
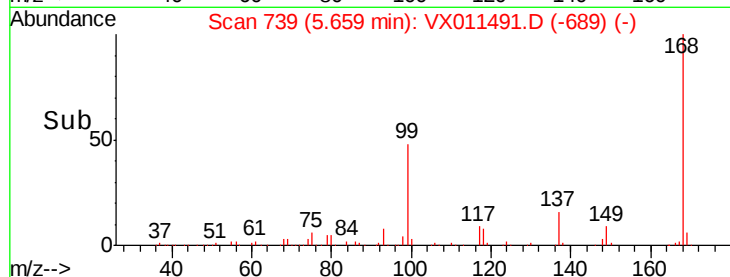
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 7.175 ug/l

RT: 1.40 min Scan# 40

Delta R.T. 0.00 min

Lab File: VX011491.D

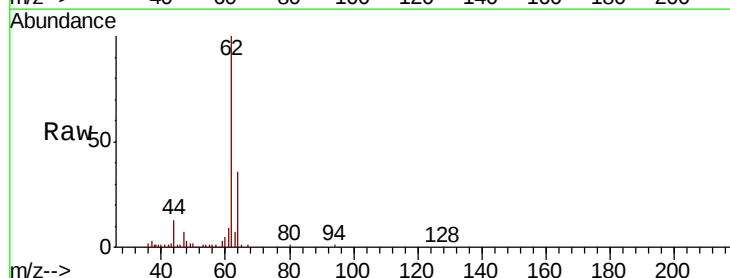
Acq: 12 Aug 2019 18:13

Tgt Ion: 62 Resp: 12590

Ion Ratio Lower Upper

62 100

64 34.3 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

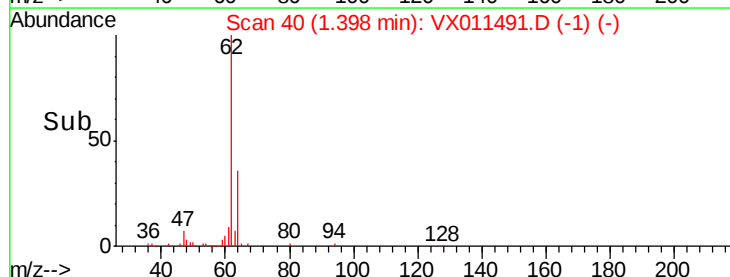
1.40

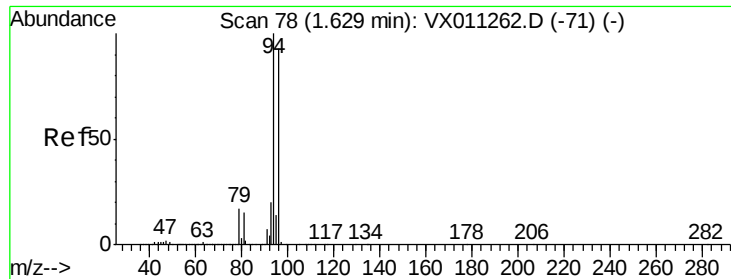
10000

5000

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 0.245 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampled :

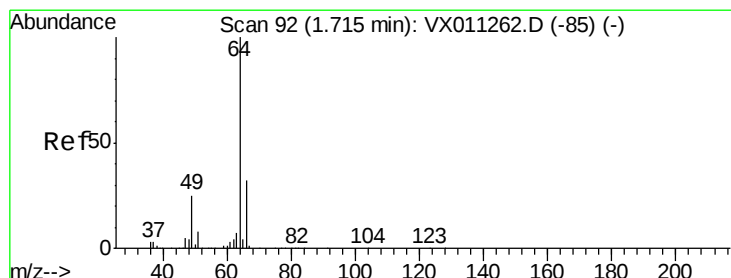
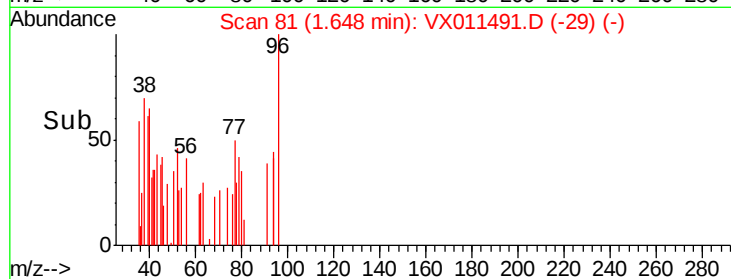
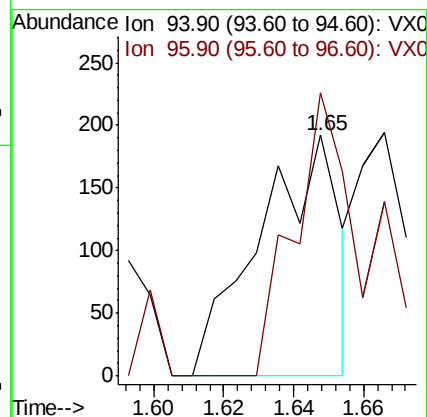
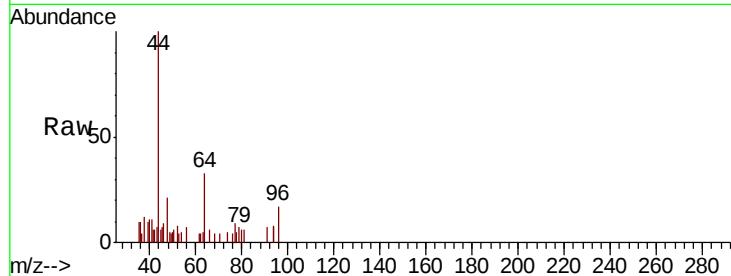
Z3-0691

Tgt Ion: 94 Resp: 306

Ion Ratio Lower Upper

94 100

96 117.7 74.6 112.0#



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX011491.D

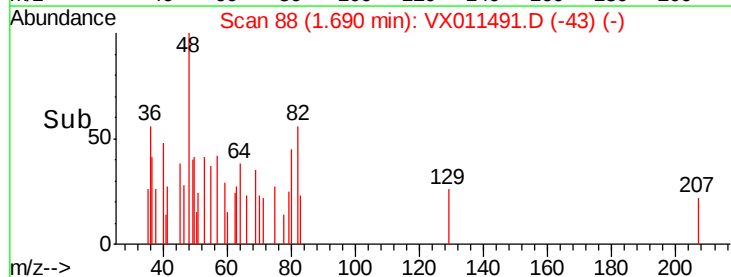
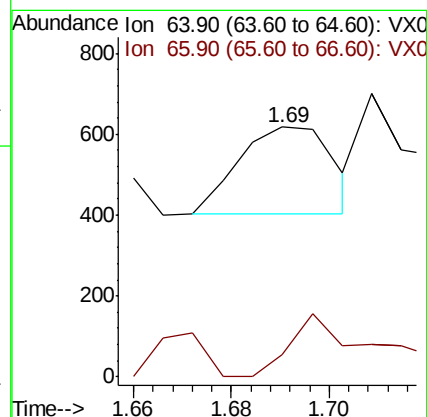
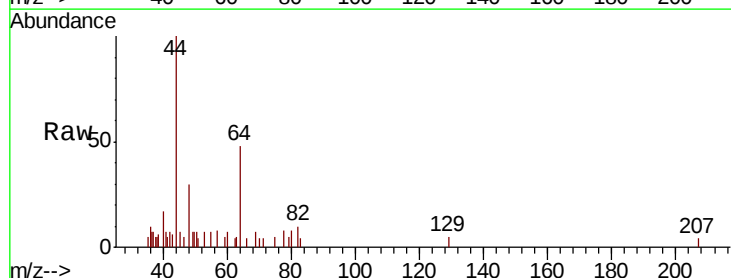
Acq: 12 Aug 2019 18:13

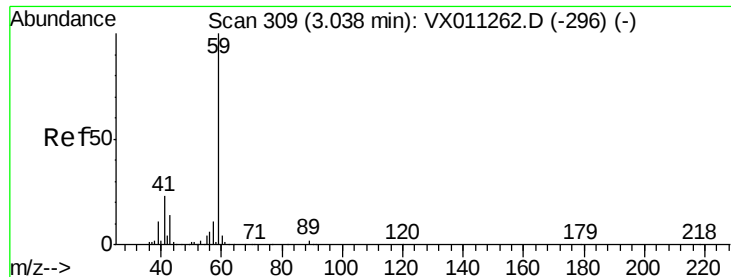
Tgt Ion: 64 Resp: 289

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#

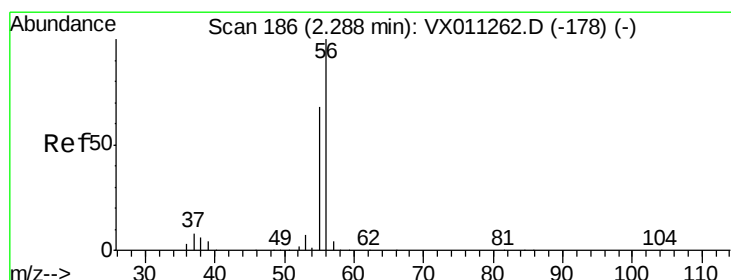
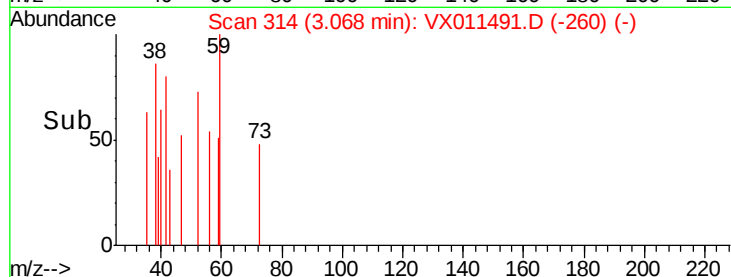
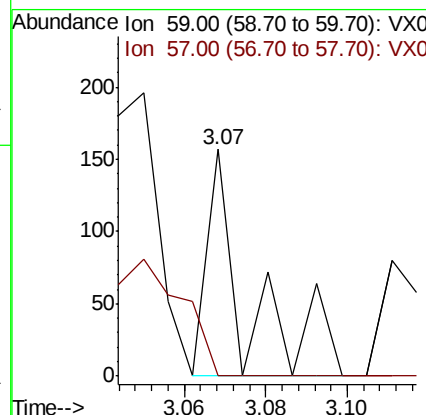
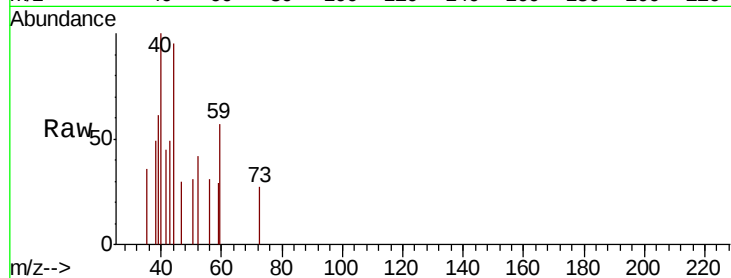




#11
Tert butyl alcohol
Concen: 0.312 ug/l
RT: 3.07 min Scan# 314
Delta R.T. 0.03 min
Lab File: VX011491.D
Acq: 12 Aug 2019 18:13

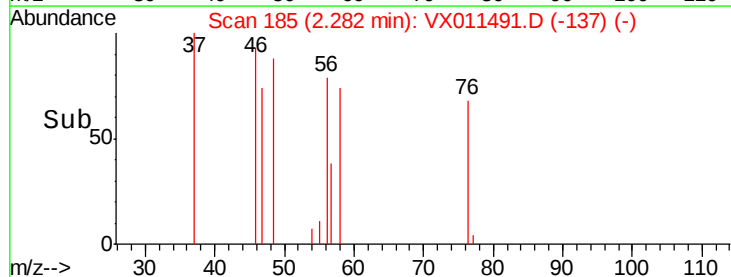
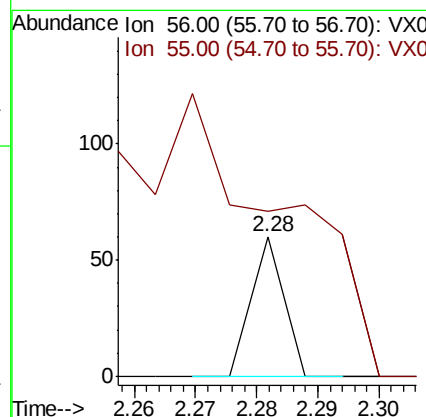
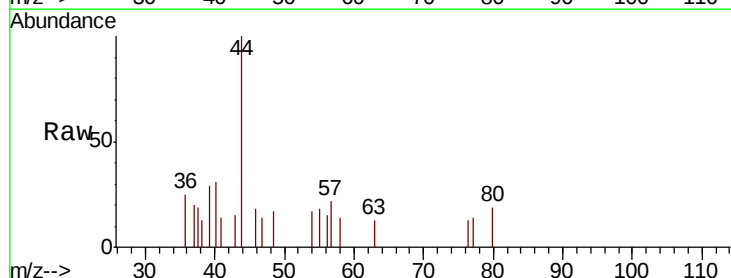
Instrument :
MSVOA_X
ClientSampled :
Z3-0691

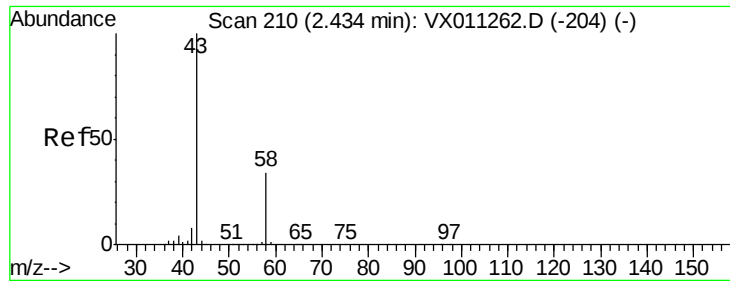
Tgt Ion: 59 Resp: 107
Ion Ratio Lower Upper
59 100
57 86.0 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX011491.D
Acq: 12 Aug 2019 18:13

Tgt Ion: 56 Resp: 22
Ion Ratio Lower Upper
56 100
55 0.0 56.0 84.0#





#16

Acetone

Concen: 1.206 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampled :

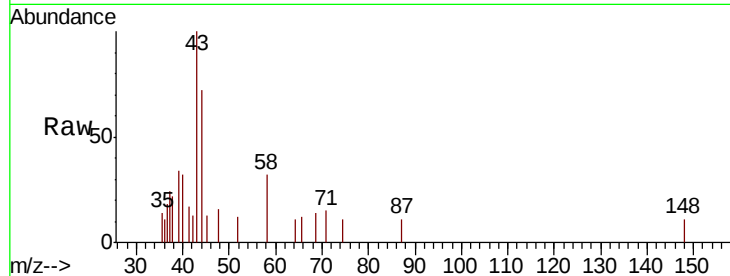
Z3-0691

Tgt Ion: 43 Resp: 1063

Ion Ratio Lower Upper

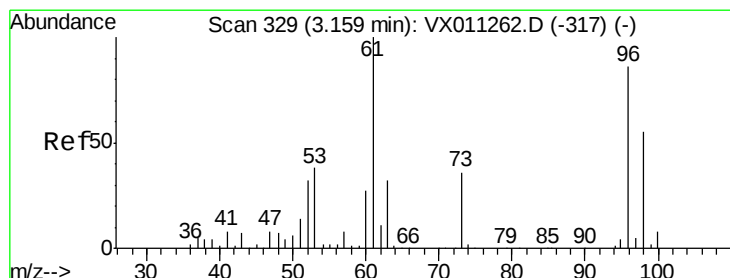
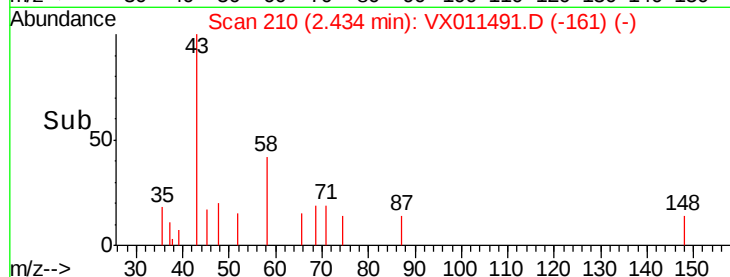
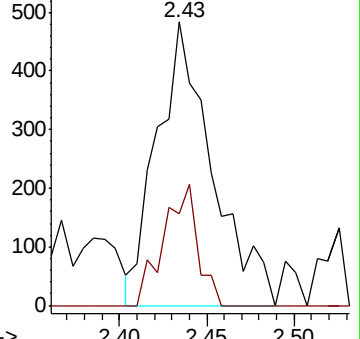
43 100

58 32.3 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 1.929 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

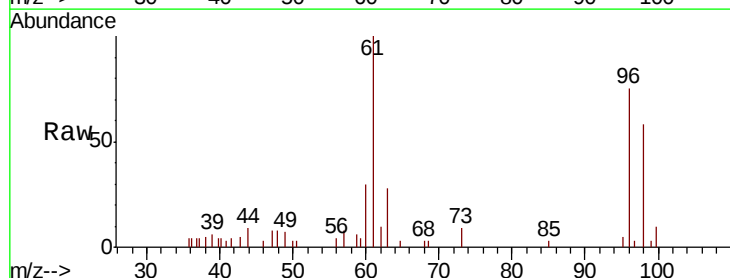
Tgt Ion: 96 Resp: 3415

Ion Ratio Lower Upper

96 100

61 134.0 92.8 139.2

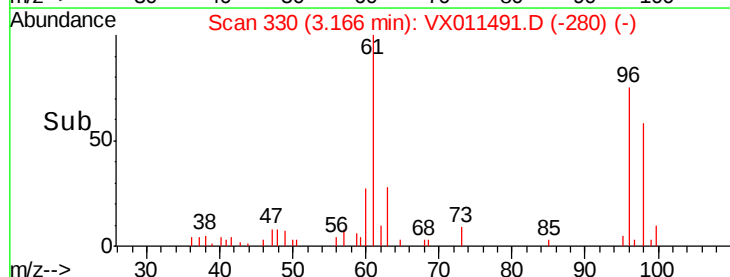
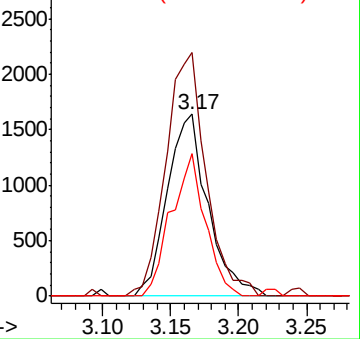
98 78.3 51.2 76.8#

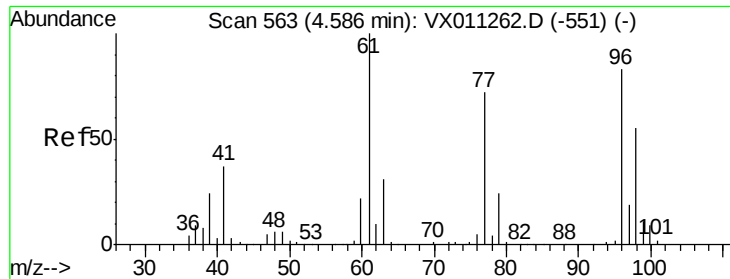


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



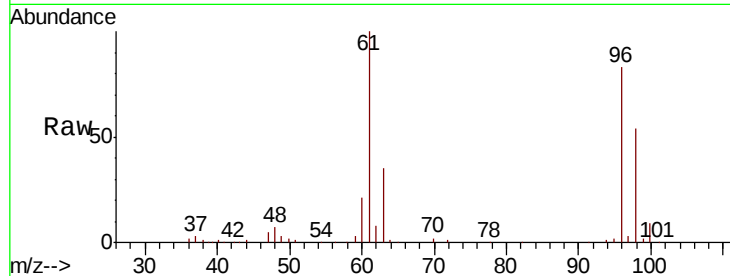


#27

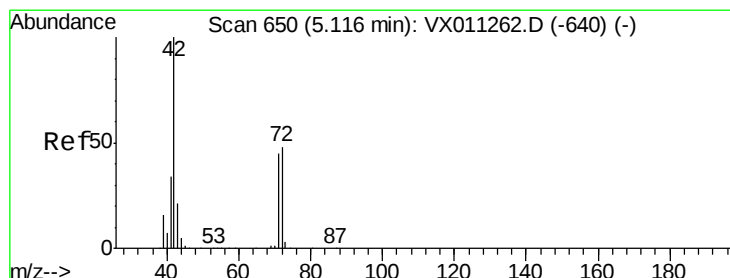
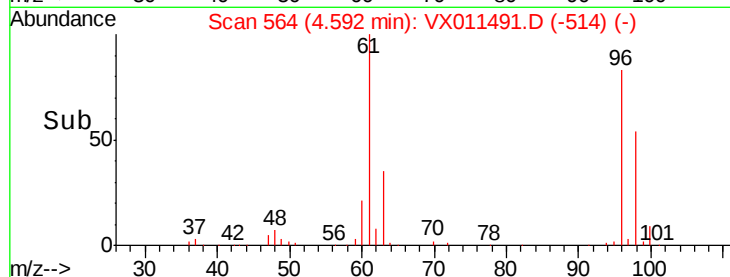
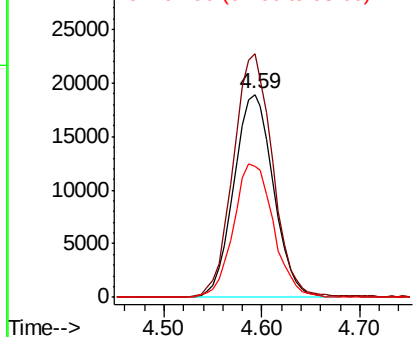
cis-1,2-Dichloroethene
 Concen: 26.123 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. 0.01 min
 Lab File: VX011491.D
 Acq: 12 Aug 2019 18:13

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0691

Tgt Ion: 96 Resp: 53262
 Ion Ratio Lower Upper
 96 100
 61 119.0 0.0 260.2
 98 66.3 0.0 133.2



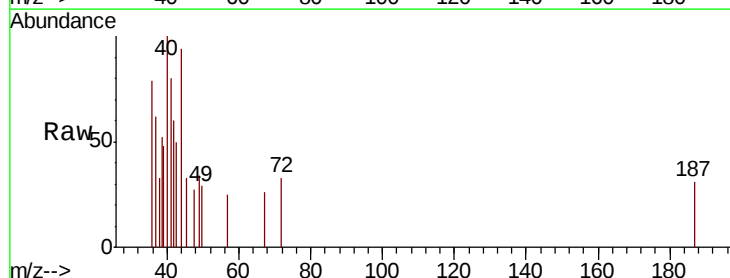
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



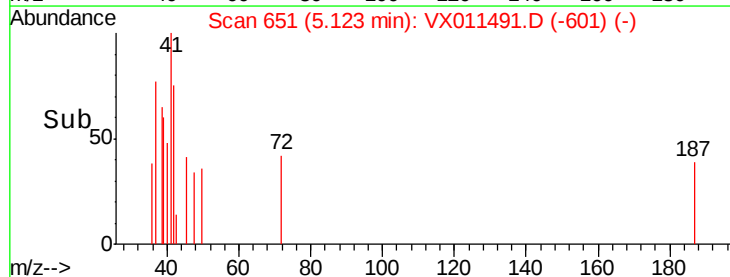
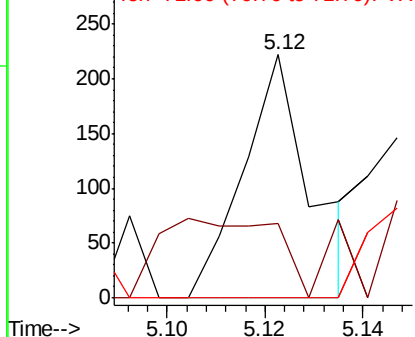
#29

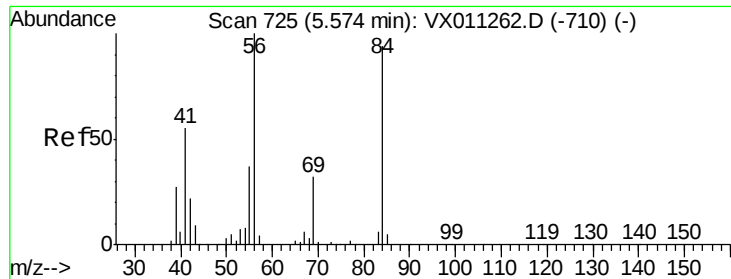
Tetrahydrofuran
 Concen: 0.274 ug/l
 RT: 5.12 min Scan# 651
 Delta R.T. 0.01 min
 Lab File: VX011491.D
 Acq: 12 Aug 2019 18:13

Tgt Ion: 42 Resp: 211
 Ion Ratio Lower Upper
 42 100
 72 12.3 39.9 59.9#
 71 0.0 36.9 55.3#



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

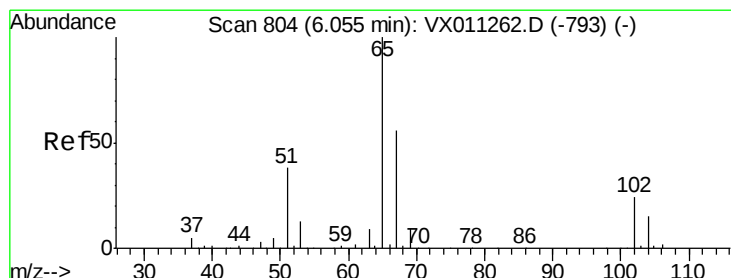
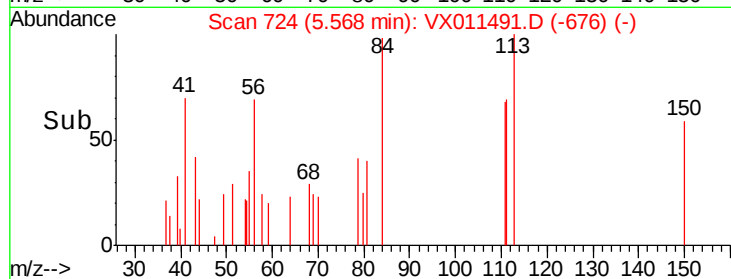
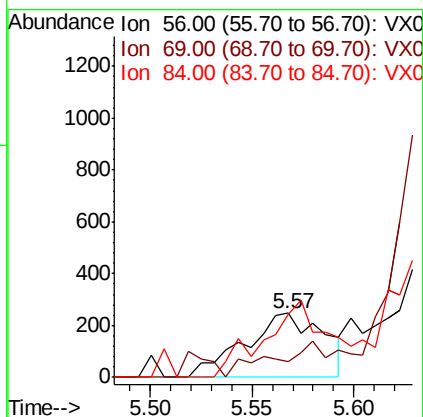
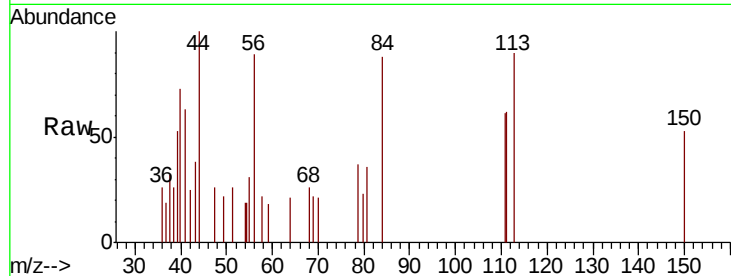




#31
Cyclohexane
Concen: 0.279 ug/l
RT: 5.57 min Scan# 724
Delta R.T. -0.01 min
Lab File: VX011491.D
Acq: 12 Aug 2019 18:13

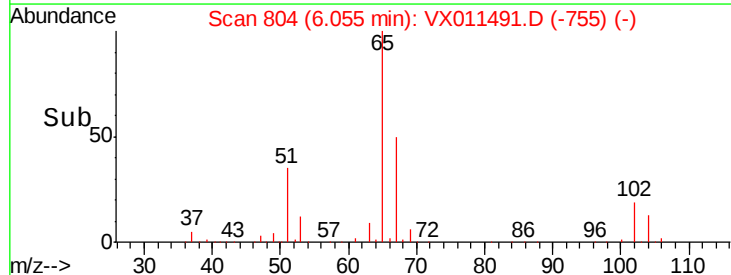
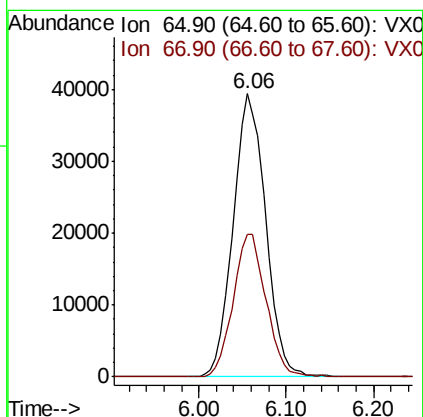
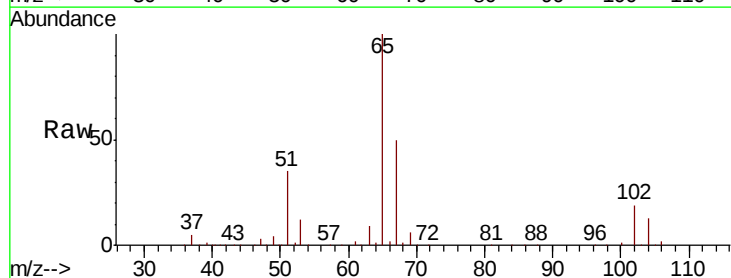
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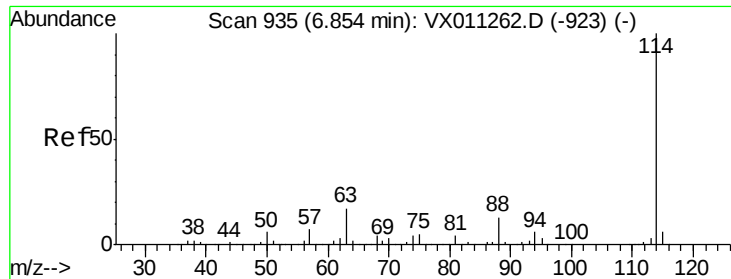
Tgt Ion: 56 Resp: 666
Ion Ratio Lower Upper
56 100
69 0.0 25.5 38.3#
84 99.2 75.0 112.4



#33
1,2-Dichloroethane-d4
Concen: 54.949 ug/l
RT: 6.06 min Scan# 804
Delta R.T. 0.00 min
Lab File: VX011491.D
Acq: 12 Aug 2019 18:13

Tgt Ion: 65 Resp: 101776
Ion Ratio Lower Upper
65 100
67 51.3 0.0 110.6

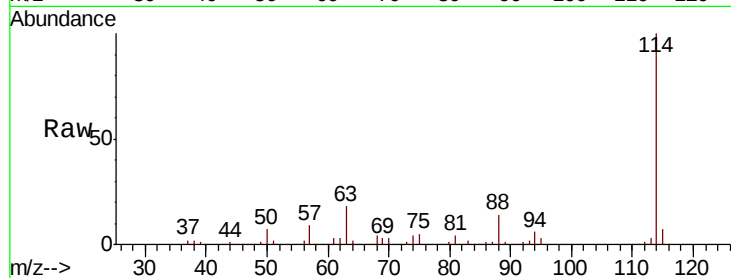




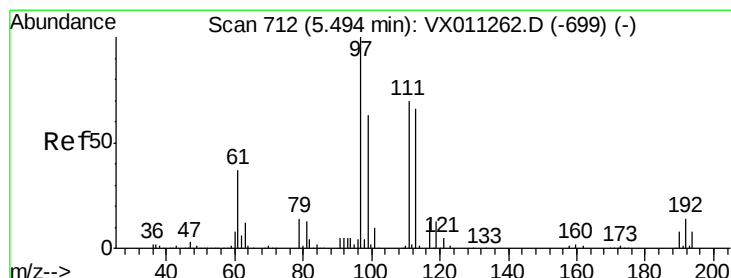
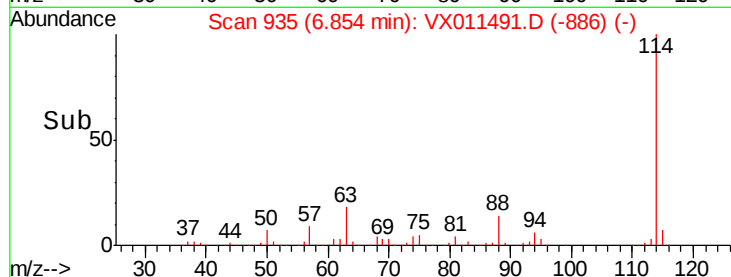
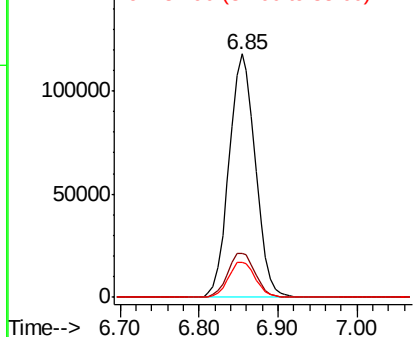
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011491.D
 Acq: 12 Aug 2019 18:13

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0691

Tgt Ion:114 Resp: 273786
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 34.0
 88 14.2 0.0 26.4

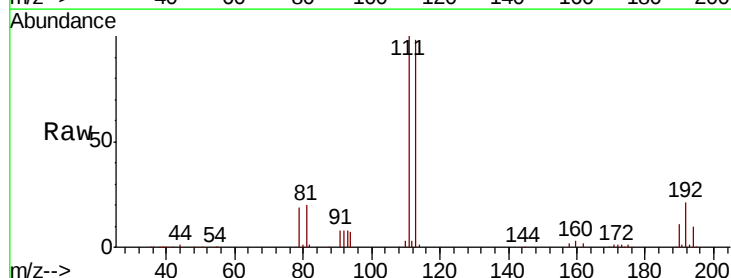


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

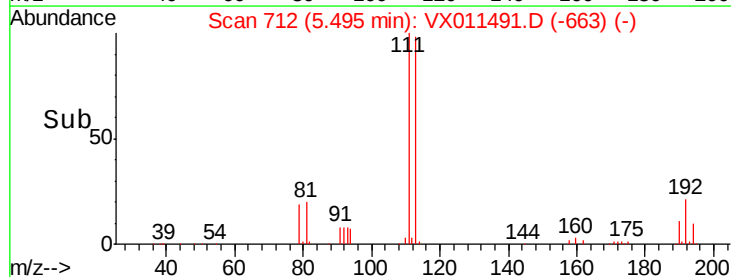
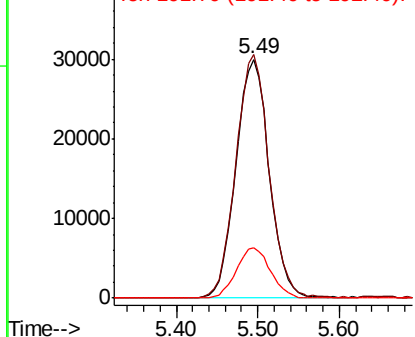


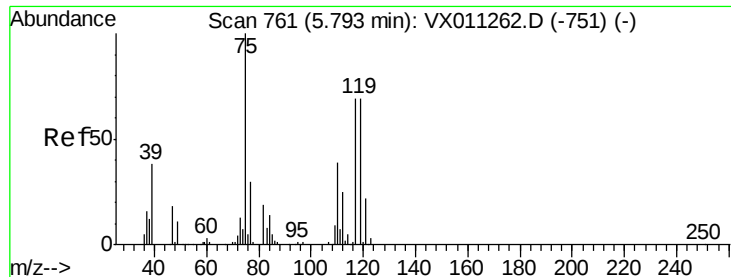
#35
 Dibromofluoromethane
 Concen: 47.499 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011491.D
 Acq: 12 Aug 2019 18:13

Tgt Ion:113 Resp: 84904
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.9 122.9
 192 21.4 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: 5.260 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampleId :

Z3-0691

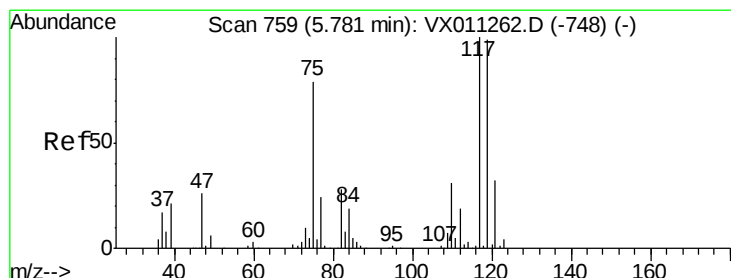
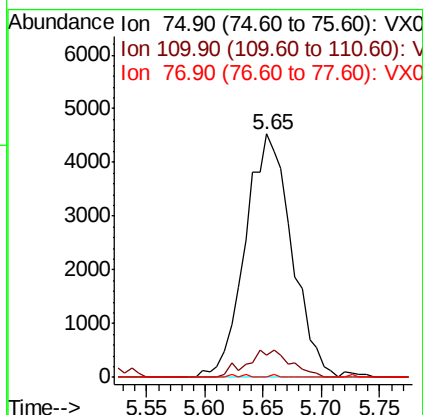
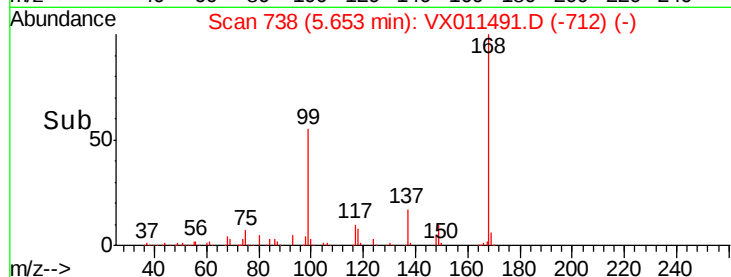
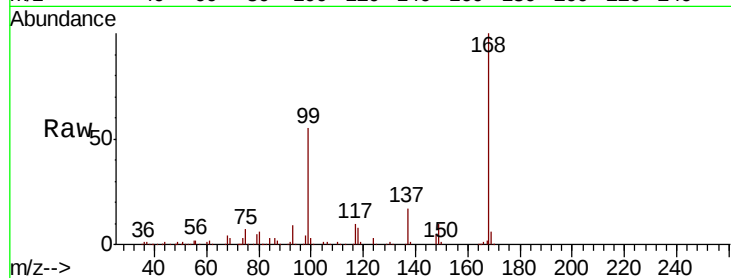
Tgt Ion: 75 Resp: 12573

Ion Ratio Lower Upper

75 100

110 10.7 20.0 59.9#

77 0.2 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.135 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

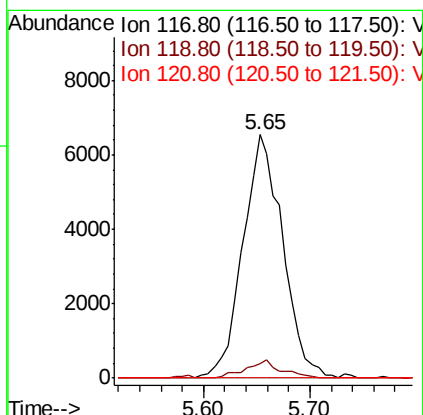
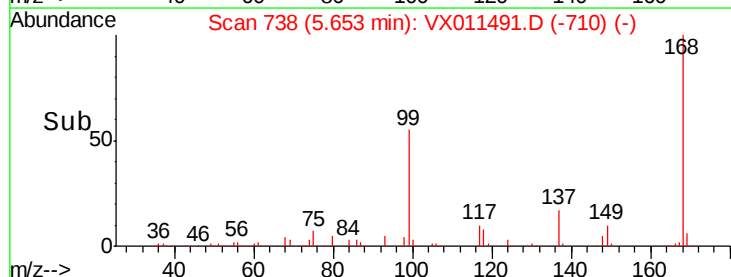
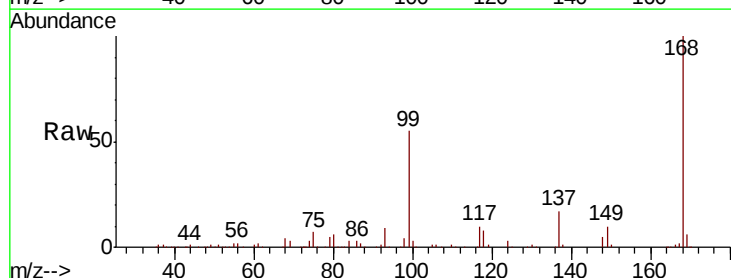
Tgt Ion: 117 Resp: 17160

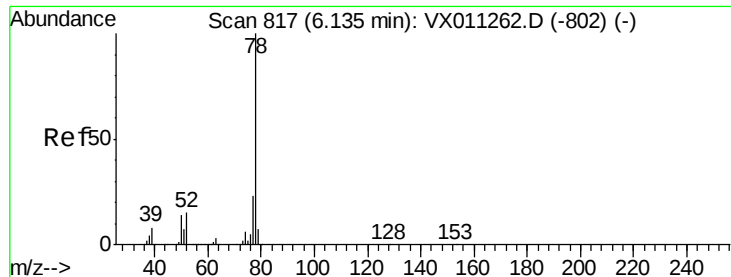
Ion Ratio Lower Upper

117 100

119 6.1 79.0 118.4#

121 0.0 25.9 38.9#





#40

Benzene

Concen: 3.863 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.01 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampleId :

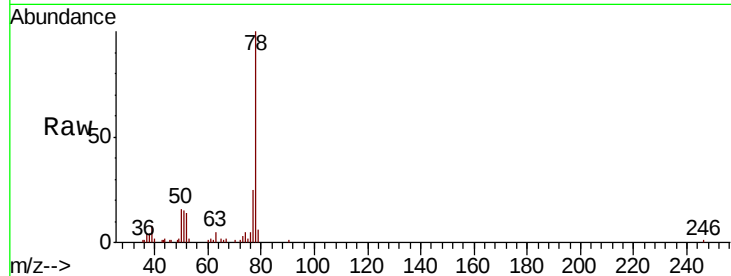
Z3-0691

Tgt Ion: 78 Resp: 27553

Ion Ratio Lower Upper

78 100

77 25.5 18.2 27.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

12000

10000

8000

6000

4000

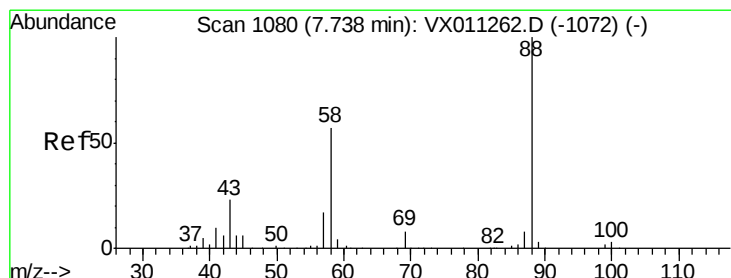
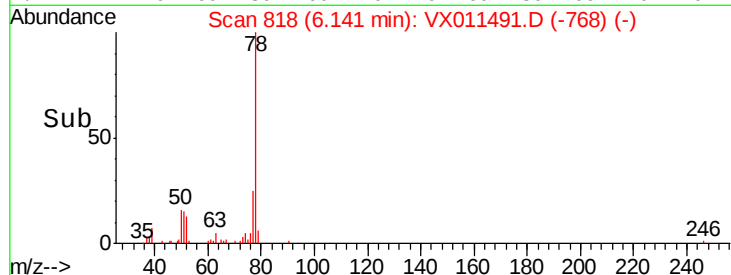
2000

0

6.00 6.10 6.20 6.30

6.14

Time-->



#49

1,4-Dioxane

Concen: 0.994 ug/l

RT: 7.88 min Scan# 1104

Delta R.T. 0.15 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

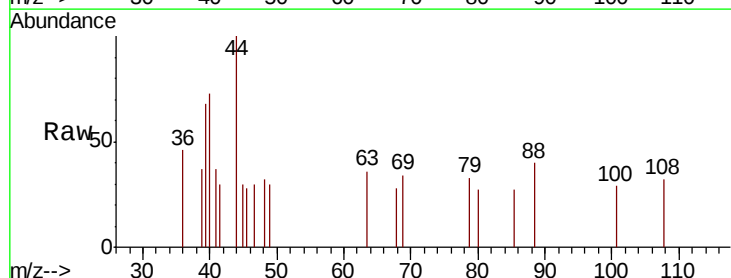
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

43 246.2 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

200

150

100

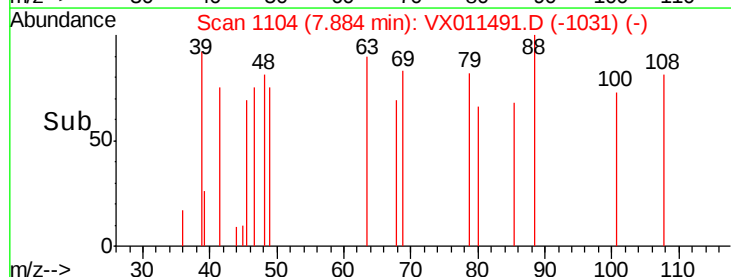
50

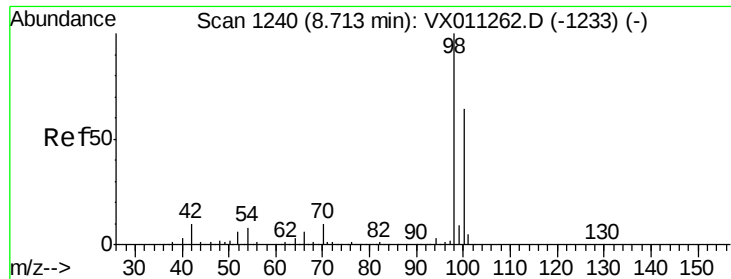
0

7.86 7.88 7.90

7.88

Time-->





#50

Toluene-d8

Concen: 47.611 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampleId :

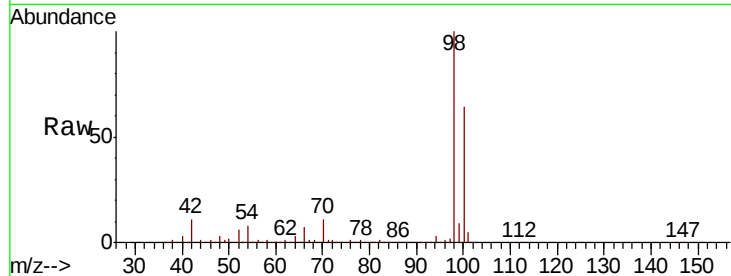
Z3-0691

Tgt Ion: 98 Resp: 321243

Ion Ratio Lower Upper

98 100

100 64.2 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

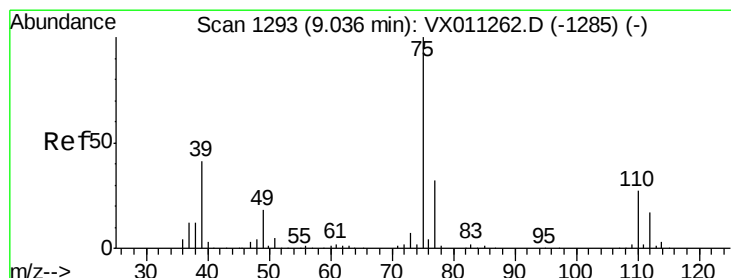
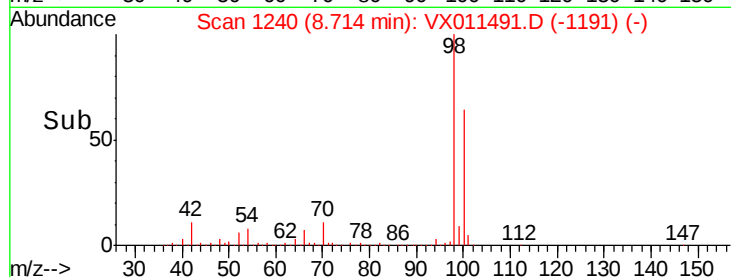
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#53

t-1,3-Dichloropropene

Concen: 2.847 ug/l

RT: 9.13 min Scan# 1308

Delta R.T. 0.09 min

Lab File: VX011491.D

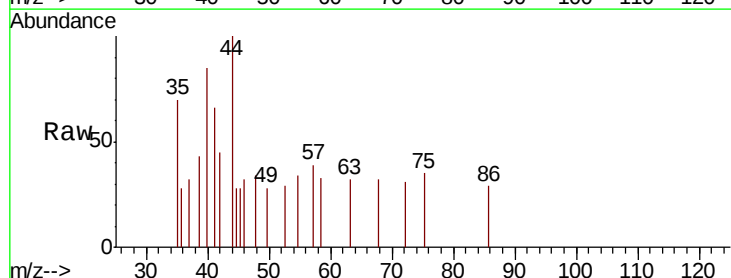
Acq: 12 Aug 2019 18:13

Tgt Ion: 75 Resp: 24

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

9.13

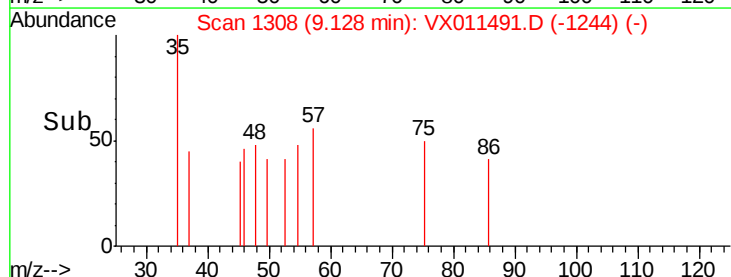
60

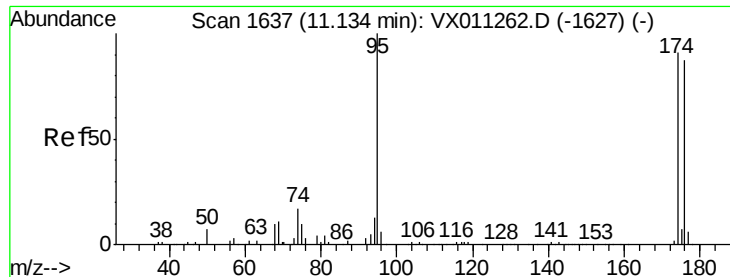
40

20

0

Time--> 9.11 9.12 9.13 9.14

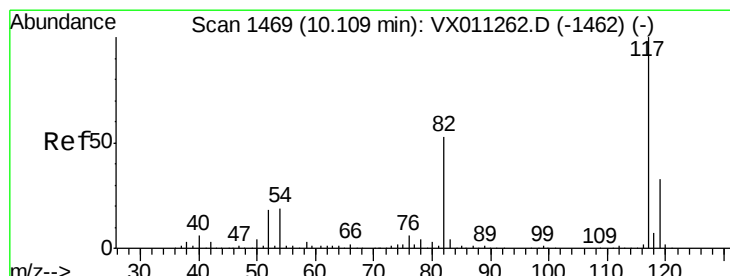
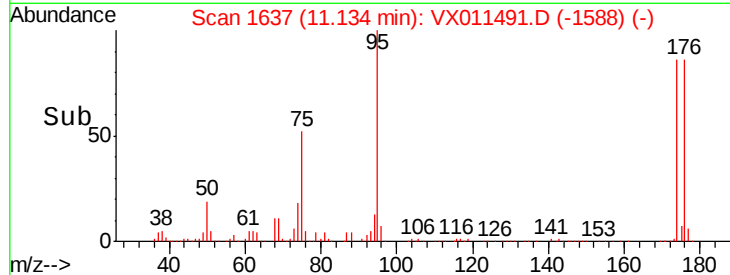
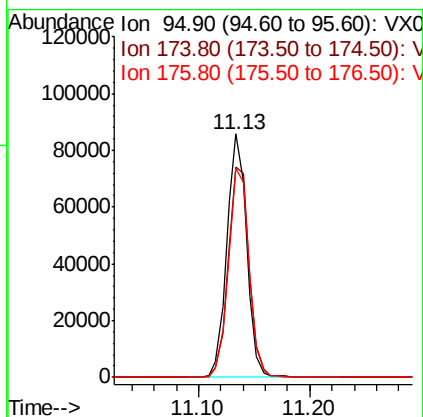
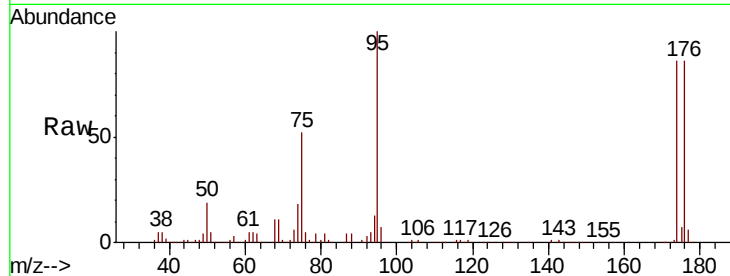




#62
4-Bromofluorobenzene
Concen: 43.823 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011491.D
Acq: 12 Aug 2019 18:13

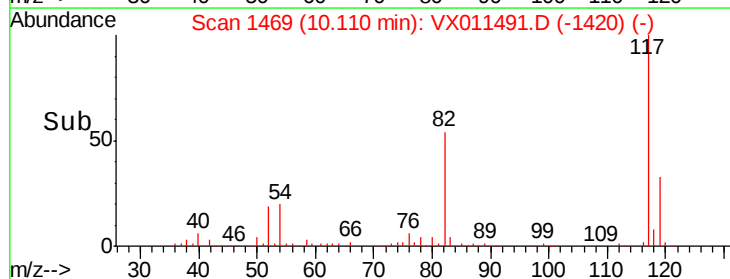
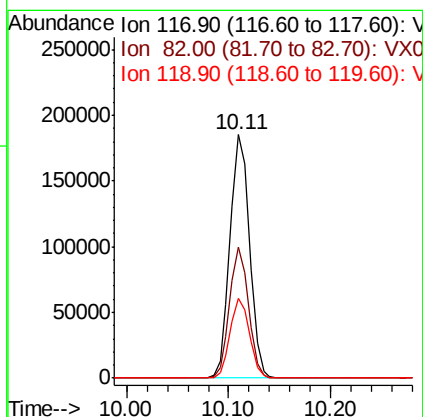
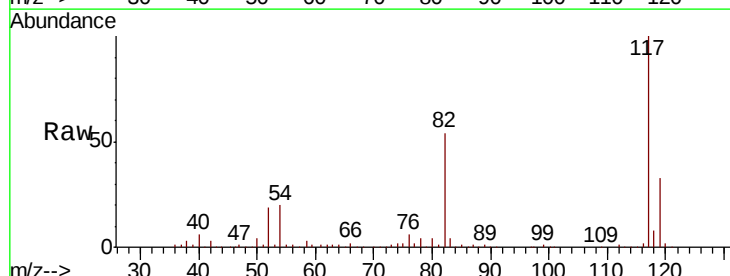
Instrument :
MSVOA_X
ClientSampleId :
Z3-0691

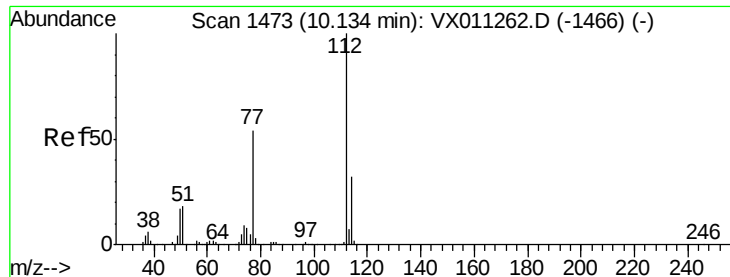
Tgt Ion: 95 Resp: 105567
Ion Ratio Lower Upper
95 100
174 91.5 0.0 191.2
176 88.8 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011491.D
Acq: 12 Aug 2019 18:13

Tgt Ion: 117 Resp: 244915
Ion Ratio Lower Upper
117 100
82 54.0 42.2 63.2
119 32.5 26.6 39.8

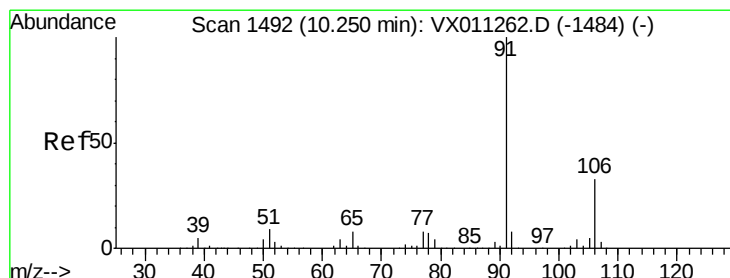
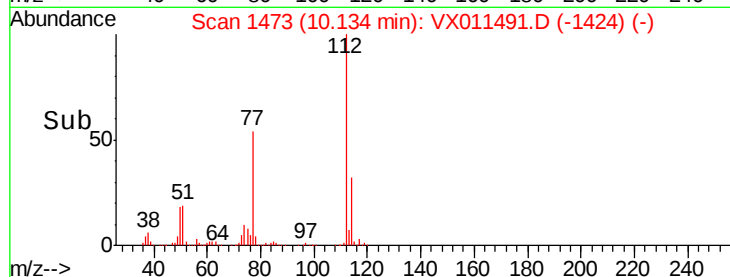
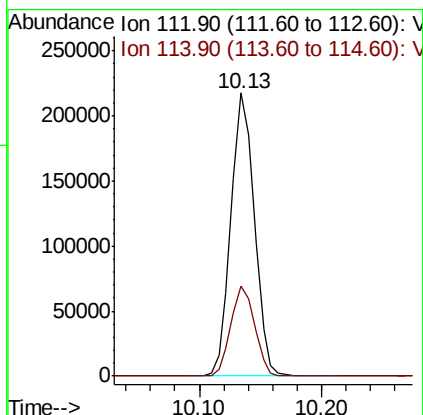
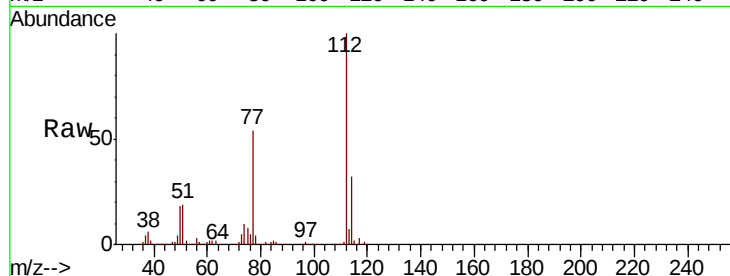




#65
Chlorobenzene
Concen: 54.897 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX011491.D
Acq: 12 Aug 2019 18:13

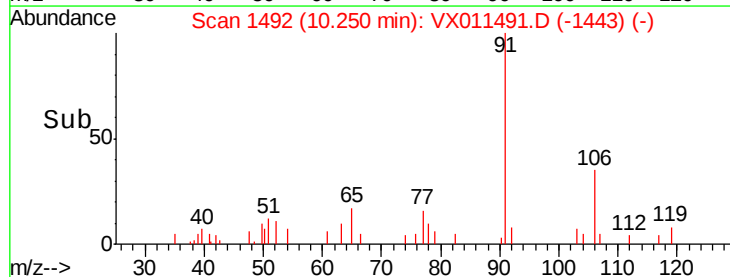
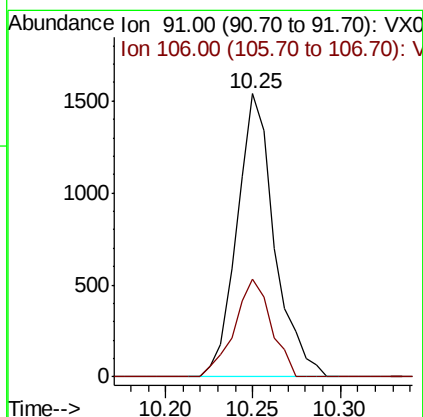
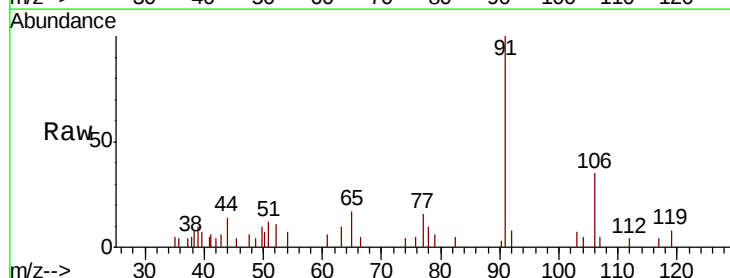
Instrument :
MSVOA_X
ClientSampleId :
Z3-0691

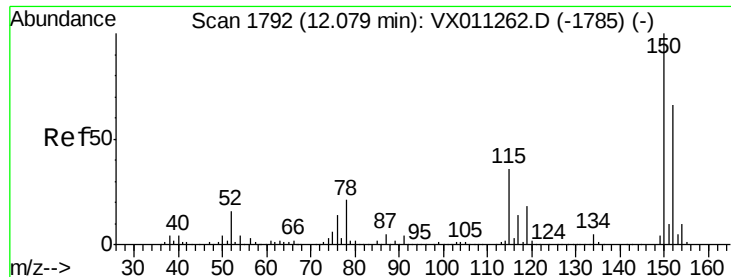
Tgt Ion: 112 Resp: 288281
Ion Ratio Lower Upper
112 100
114 31.8 25.9 38.9



#67
Ethyl Benzene
Concen: 0.261 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. 0.00 min
Lab File: VX011491.D
Acq: 12 Aug 2019 18:13

Tgt Ion: 91 Resp: 2292
Ion Ratio Lower Upper
91 100
106 34.8 26.2 39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampleId :

Z3-0691

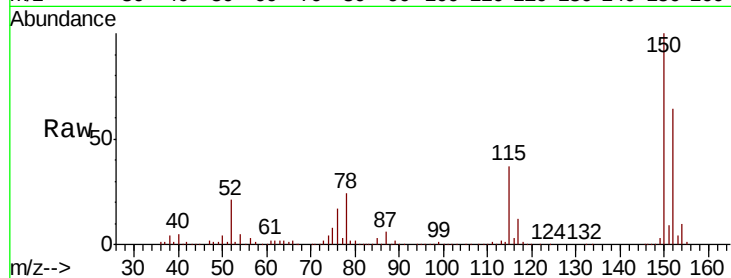
Tgt Ion:152 Resp: 111148

Ion Ratio Lower Upper

152 100

115 56.4 40.0 119.9

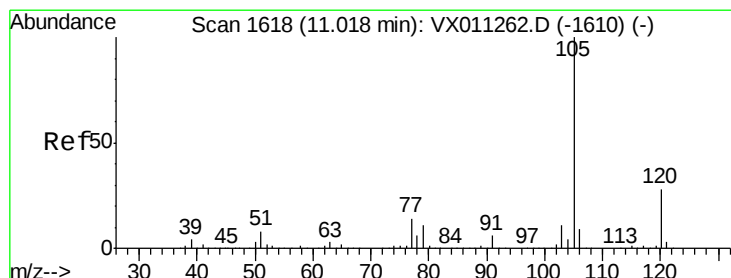
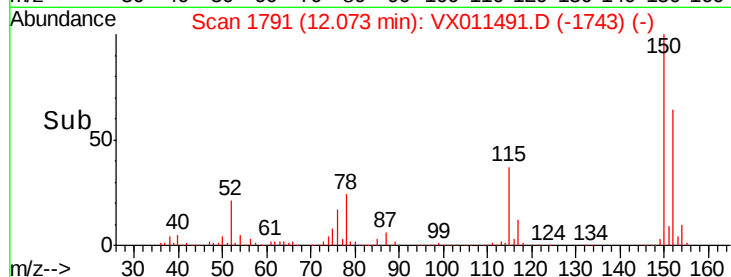
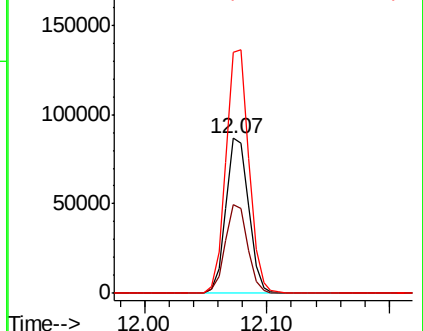
150 158.2 0.0 350.4



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



#73

Isopropylbenzene

Concen: 0.218 ug/l

RT: 11.01 min Scan# 1617

Delta R.T. -0.01 min

Lab File: VX011491.D

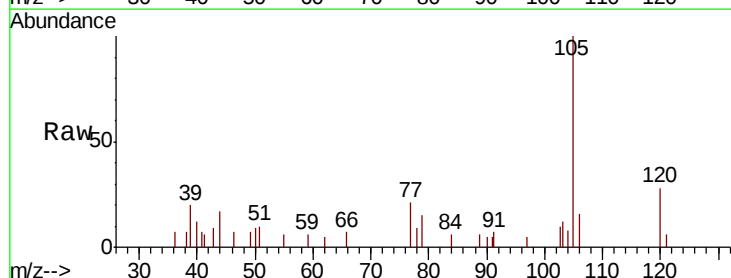
Acq: 12 Aug 2019 18:13

Tgt Ion:105 Resp: 1658

Ion Ratio Lower Upper

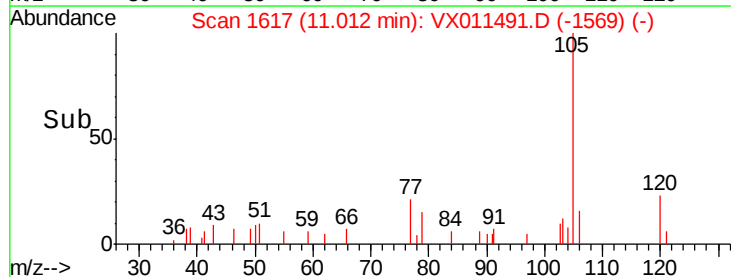
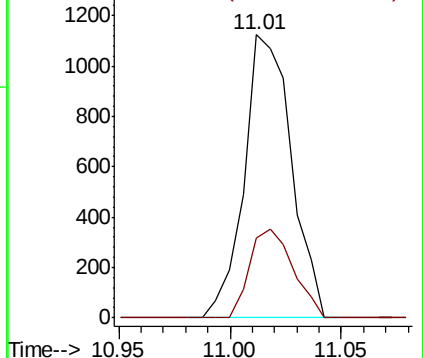
105 100

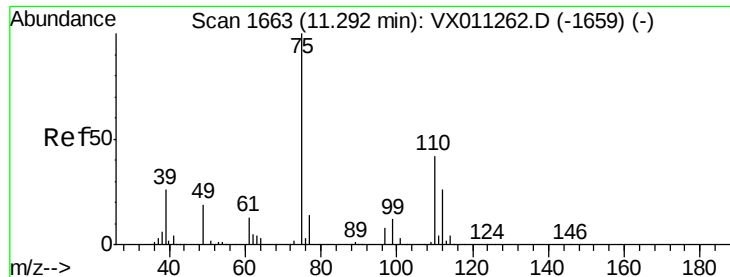
120 29.0 13.7 41.1



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: 26.531 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampleId :

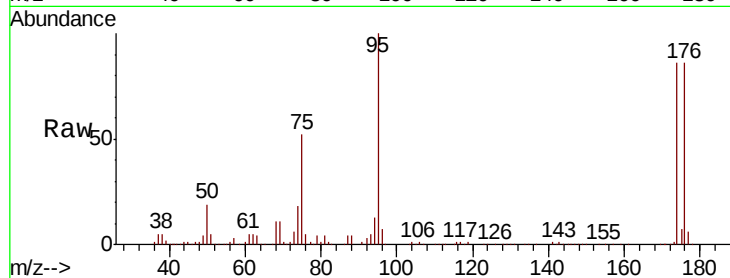
Z3-0691

Tgt Ion: 75 Resp: 53702

Ion Ratio Lower Upper

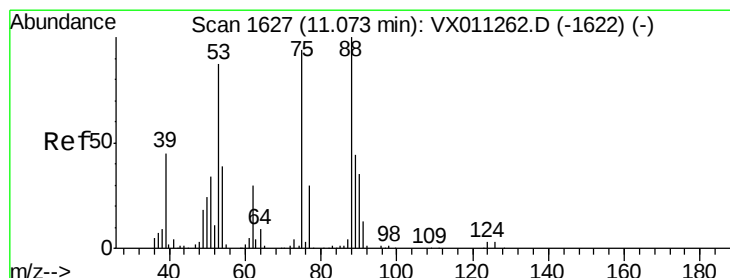
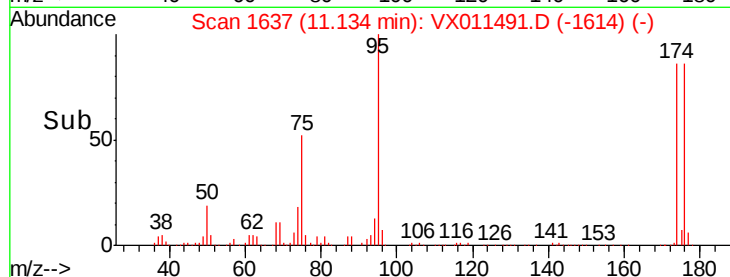
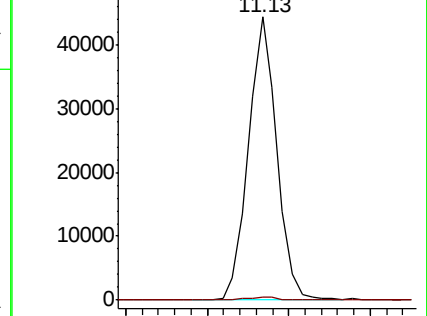
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 68.957 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

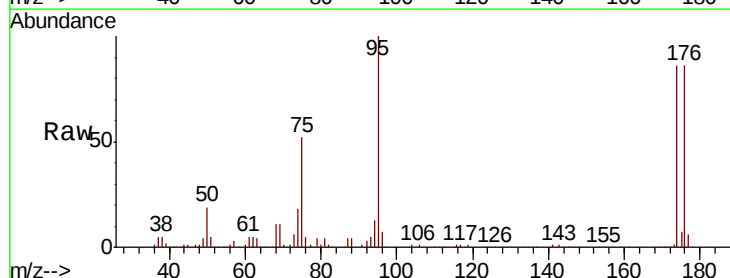
Tgt Ion: 75 Resp: 53702

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

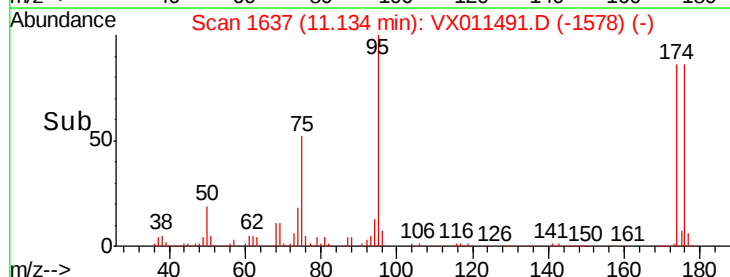
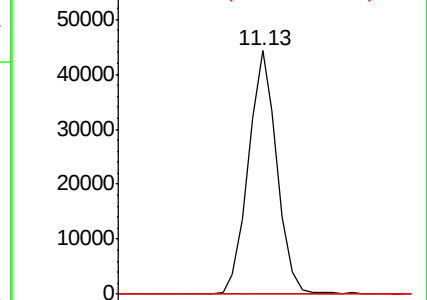
89 0.0 37.9 56.9#

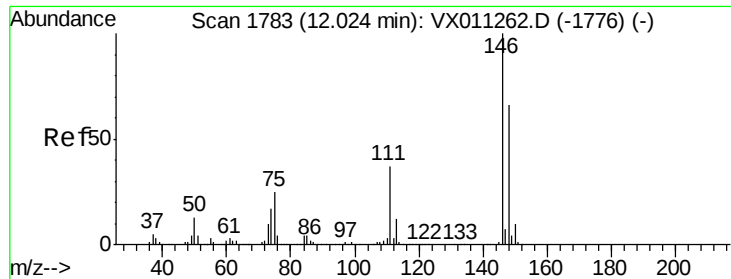


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#87

1,3-Dichlorobenzene

Concen: 0.297 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. 0.00 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampleId :

Z3-0691

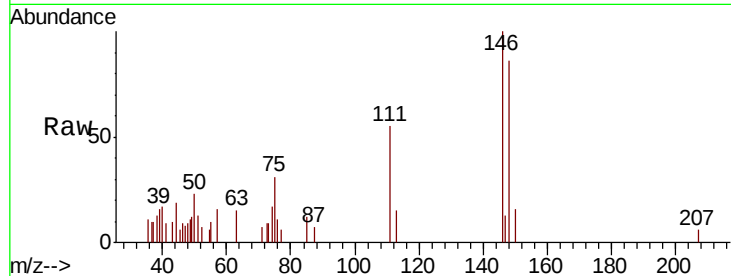
Tgt Ion:146 Resp: 1107

Ion Ratio Lower Upper

146 100

111 48.8 18.6 55.8

148 73.5 32.5 97.5

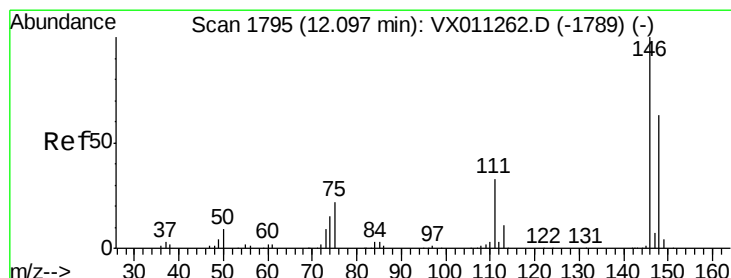
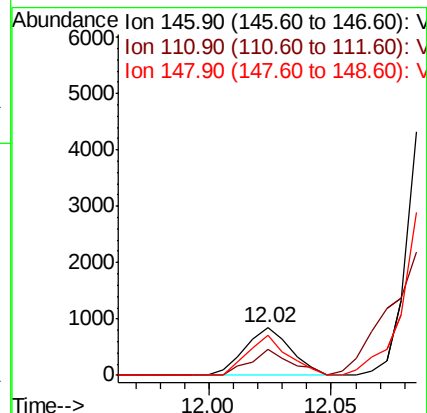
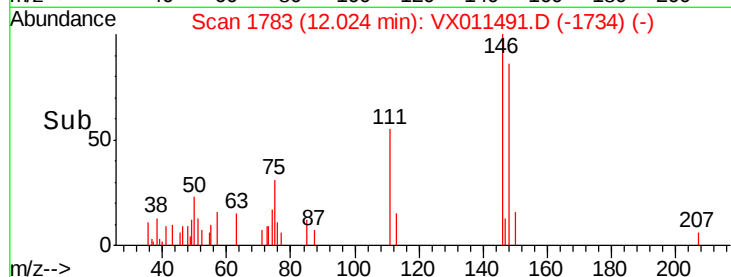


Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 2.614 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

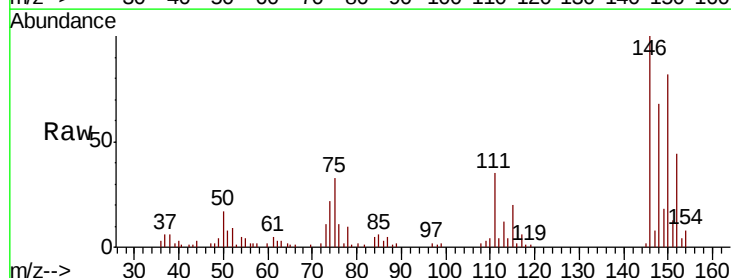
Tgt Ion:146 Resp: 10038

Ion Ratio Lower Upper

146 100

111 50.7 17.8 53.4

148 71.9 31.8 95.3

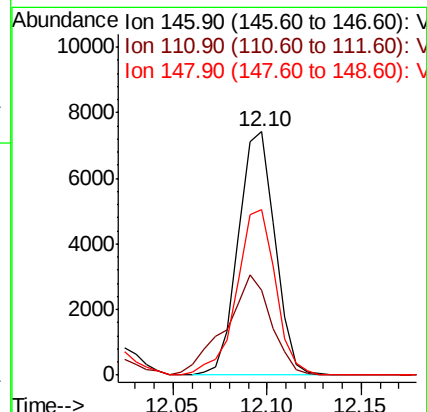
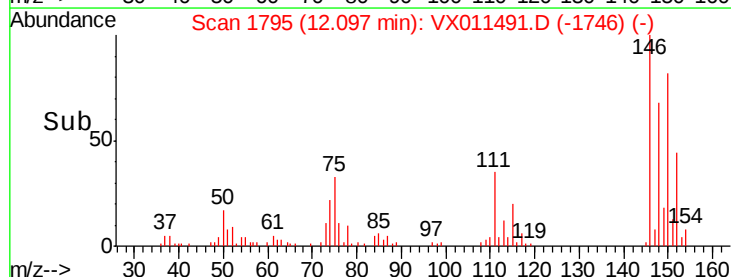


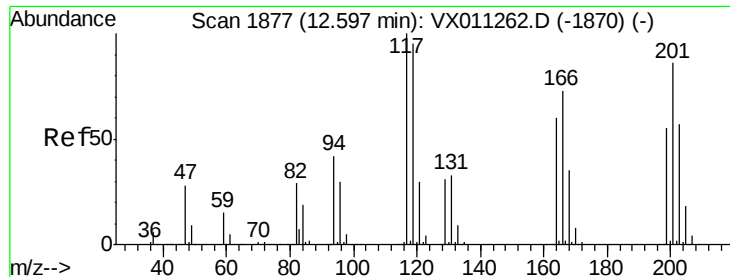
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#90

Hexachloroethane

Concen: 0.226 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

Instrument :

MSVOA_X

ClientSampled :

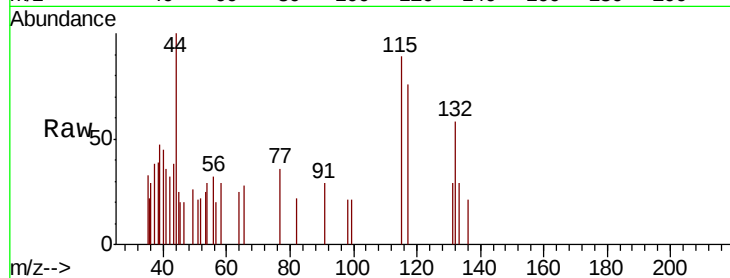
Z3-0691

Tgt Ion:117 Resp: 230

Ion Ratio Lower Upper

117 100

201 0.0 41.8 125.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.70

200

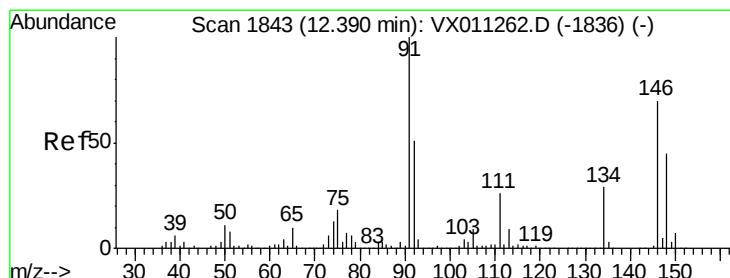
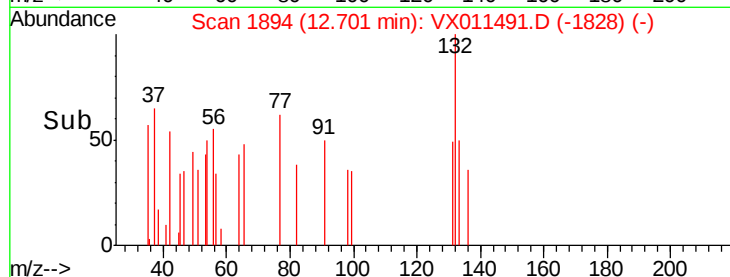
150

100

50

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.212 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX011491.D

Acq: 12 Aug 2019 18:13

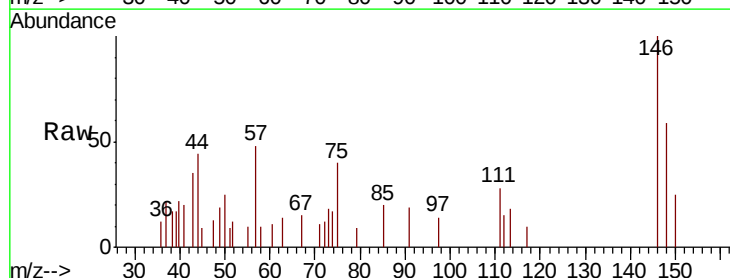
Tgt Ion:146 Resp: 794

Ion Ratio Lower Upper

146 100

111 39.9 19.1 57.1

148 57.6 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

600

400

200

0

Time-->

