

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082119\
 Data File : VX011746.D
 Acq On : 22 Aug 2019 01:52
 Operator : JC/SP
 Sample : K4388-24
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-B2-(2)

Quant Time: Aug 22 03:44:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	464716	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	621311	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	578248	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	275744	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	223875	51.95	ug/l	0.00
Spiked Amount						
			Recovery	=	103.90%	
35) Dibromofluoromethane	5.49	113	194945	47.97	ug/l	0.00
Spiked Amount						
			Recovery	=	95.94%	
50) Toluene-d8	8.71	98	723940	57.17	ug/l	0.00
Spiked Amount						
			Recovery	=	114.34%	
62) 4-Bromofluorobenzene	11.13	95	248609	46.52	ug/l	0.00
Spiked Amount						
			Recovery	=	93.04%	

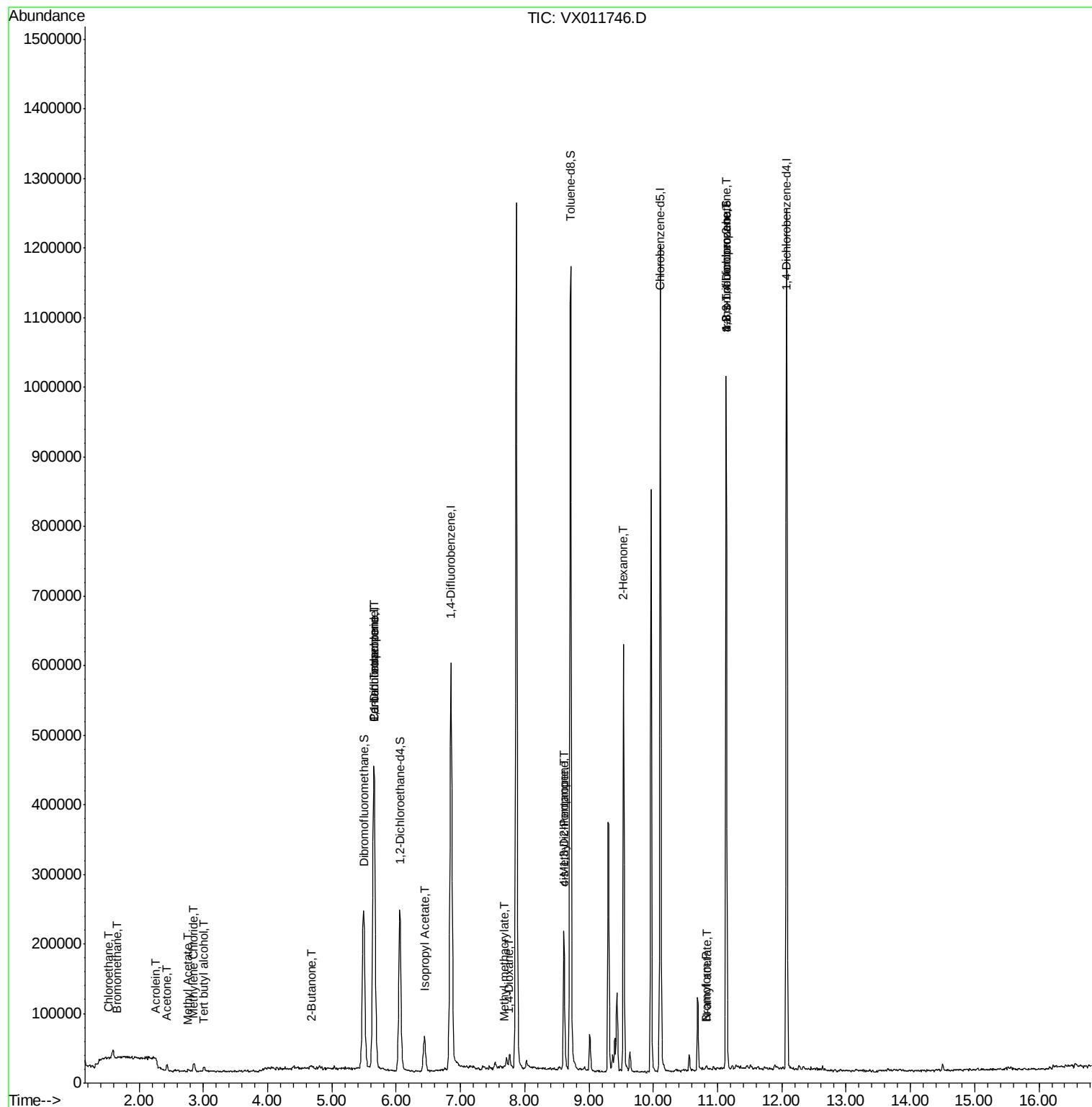
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	717	0.373	ug/l #	62
6) Chloroethane	1.53	64	577	0.284	ug/l #	46
11) Tert butyl alcohol	3.01	59	4210	3.982	ug/l #	75
13) Acrolein	2.25	56	37	12.292	ug/l #	1
16) Acetone	2.43	43	10550	4.869	ug/l	93
18) Methyl Acetate	2.76	43	3612	0.537	ug/l #	73
20) Methylene Chloride	2.85	84	7061	1.552	ug/l	96
25) 2-Butanone	4.68	43	2448	0.720	ug/l #	85
36) 1,1-Dichloropropene	5.65	75	26771	5.040	ug/l #	52
38) Carbon Tetrachloride	5.66	117	39999	6.834	ug/l #	16
43) Isopropyl Acetate	6.44	43	70831	7.428	ug/l	99
48) Methyl methacrylate	7.68	41	3996	0.846	ug/l #	21
49) 1,4-Dioxane	7.75	88	219	1.744	ug/l #	62
51) 4-Methyl-2-Pentanone	8.61	43	65930	10.564	ug/l #	47
54) cis-1,3-Dichloropropene	8.61	75	31806	5.098	ug/l #	64
59) 2-Hexanone	9.54	43	68781	14.291	ug/l #	52
71) Bromoform	10.82	173	161	3.325	ug/l #	28
74) N-amyl acetate	10.82	43	3507	0.461	ug/l #	46
76) 1,2,3-Trichloropropane	11.13	75	120161	22.981	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	120161	61.154	ug/l #	11

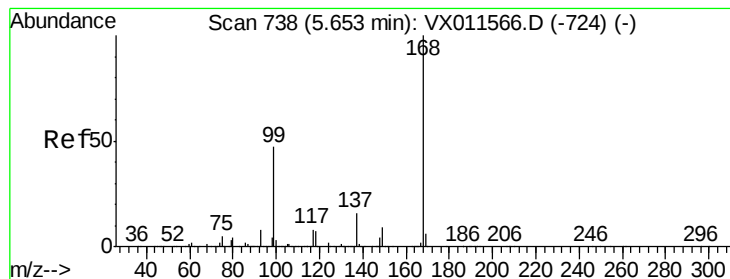
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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T4-B2-(2)

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Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:15:26 2019
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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: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampleId :

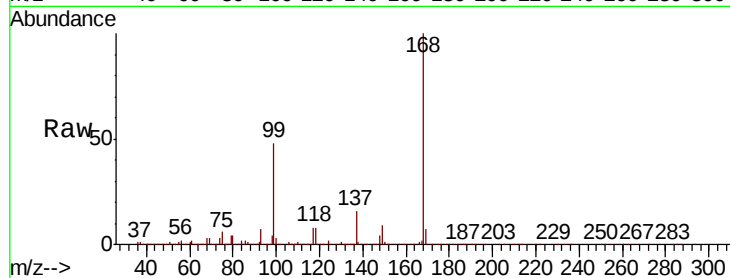
T4-B2-(2)

Tgt Ion:168 Resp: 464716

Ion Ratio Lower Upper

168 100

99 47.8 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

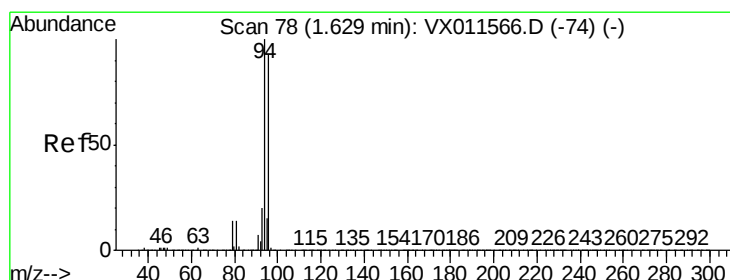
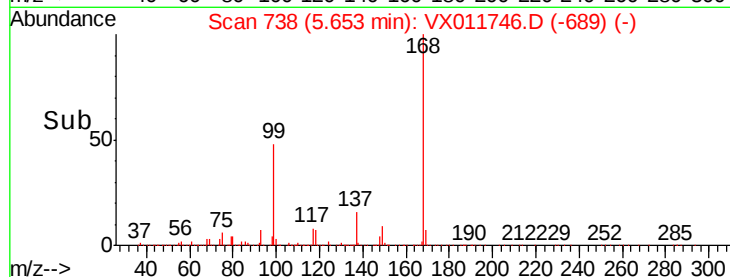
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.373 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.02 min

Lab File: VX011746.D

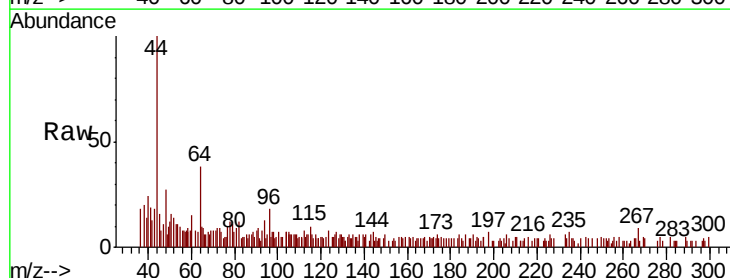
Acq: 22 Aug 2019 01:52

Tgt Ion: 94 Resp: 717

Ion Ratio Lower Upper

94 100

96 56.8 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

500

400

300

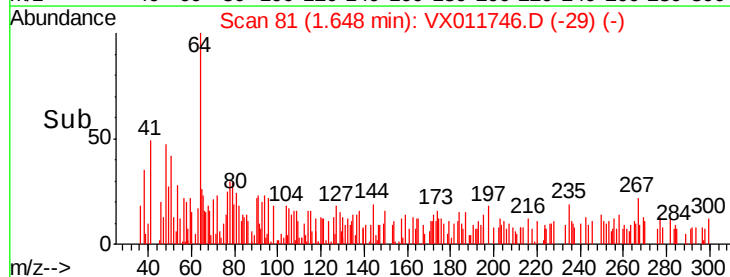
200

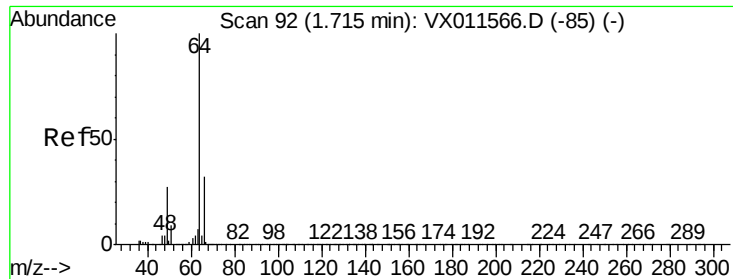
100

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.284 ug/l

RT: 1.53 min Scan# 62

Delta R.T. -0.18 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampleId :

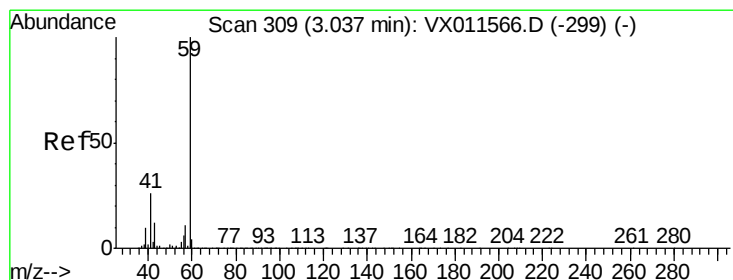
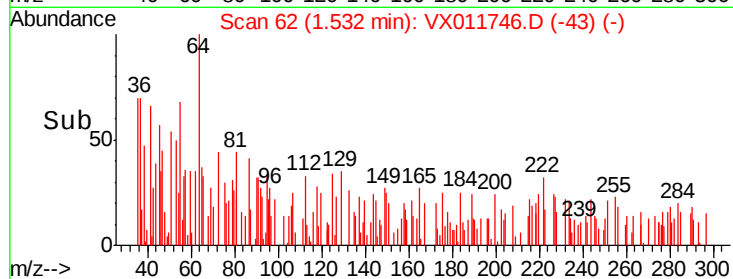
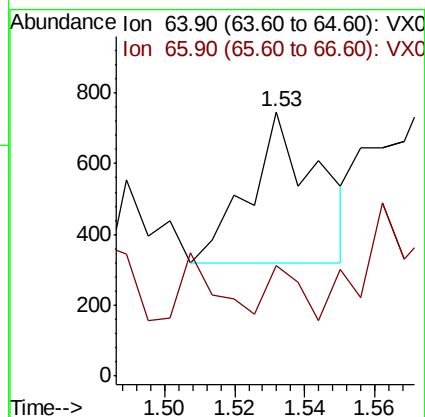
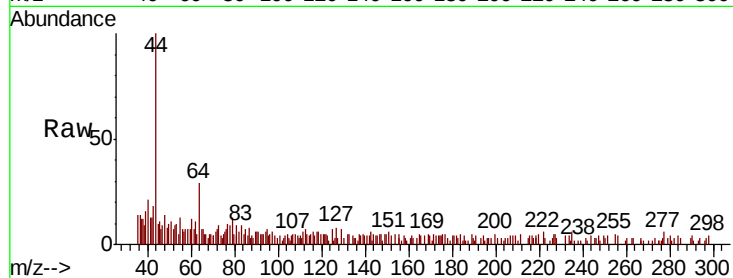
T4-B2-(2)

Tgt Ion: 64 Resp: 577

Ion Ratio Lower Upper

64 100

66 1.9 25.3 37.9#



#11

Tert butyl alcohol

Concen: 3.982 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011746.D

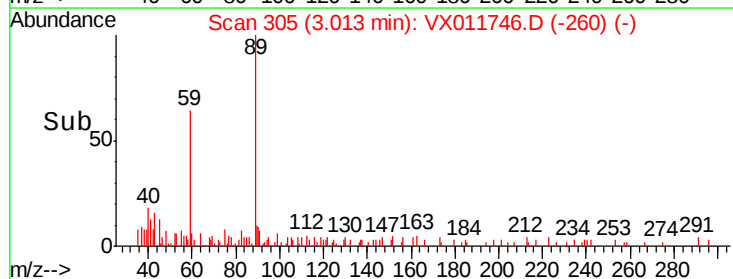
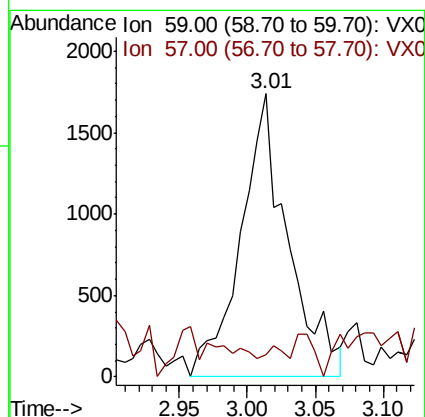
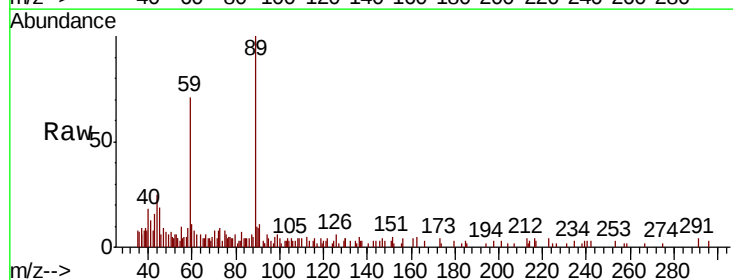
Acq: 22 Aug 2019 01:52

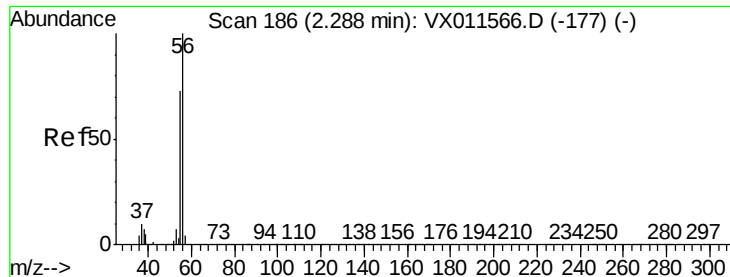
Tgt Ion: 59 Resp: 4210

Ion Ratio Lower Upper

59 100

57 1.5 8.7 13.1#





#13

Acrolein

Concen: 12.292 ug/l

RT: 2.25 min Scan# 180

Delta R.T. -0.04 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampled :

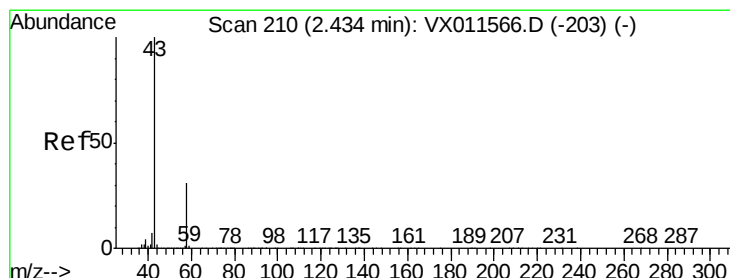
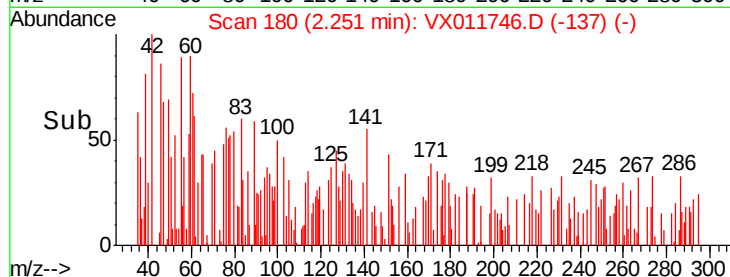
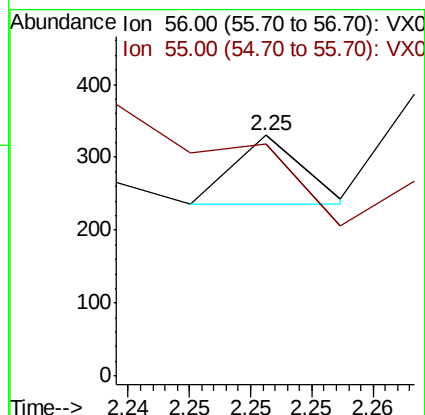
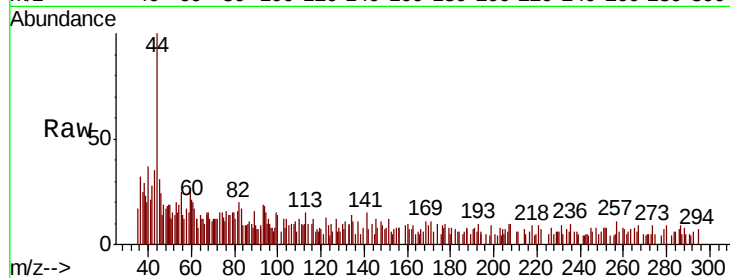
T4-B2-(2)

Tgt Ion: 56 Resp: 37

Ion Ratio Lower Upper

56 100

55 737.8 55.5 83.3#



#16

Acetone

Concen: 4.869 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011746.D

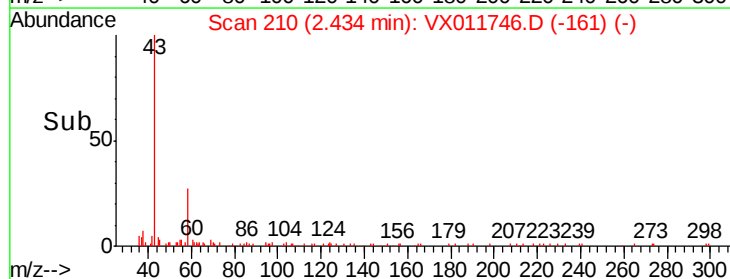
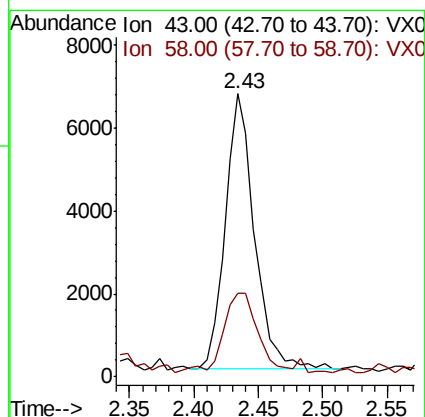
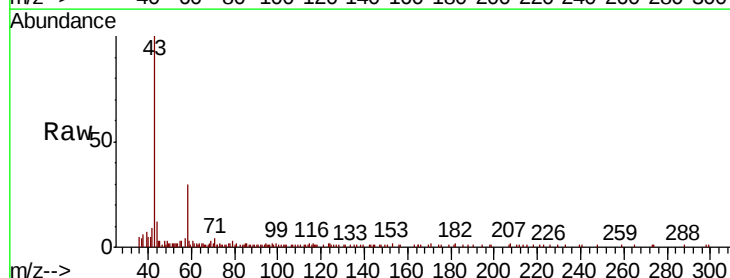
Acq: 22 Aug 2019 01:52

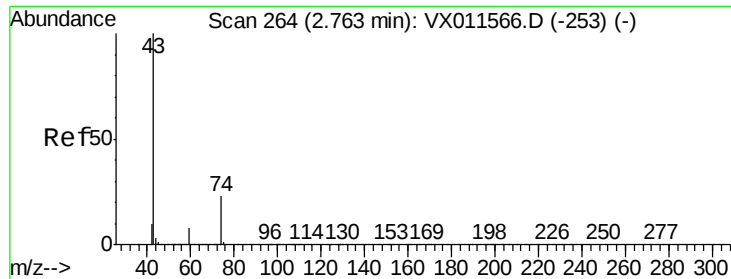
Tgt Ion: 43 Resp: 10550

Ion Ratio Lower Upper

43 100

58 27.8 25.2 37.8

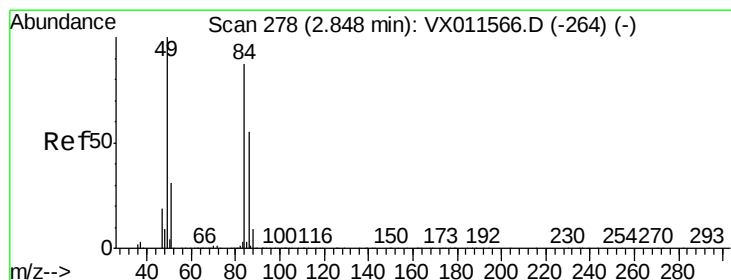
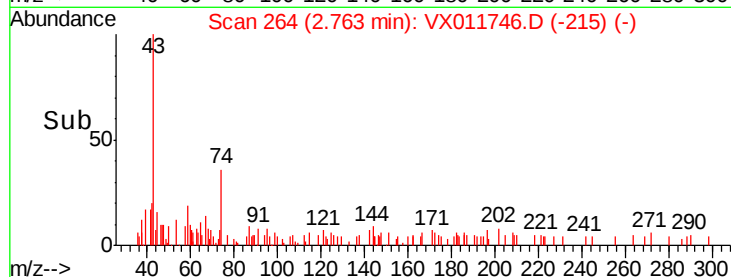
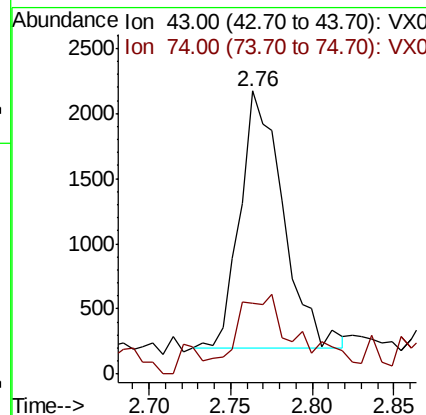
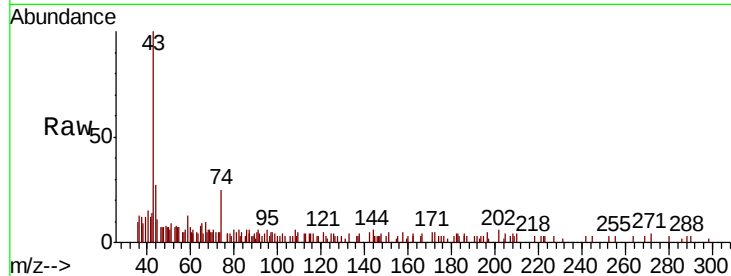




#18
Methyl Acetate
Concen: 0.537 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011746.D
Acq: 22 Aug 2019 01:52

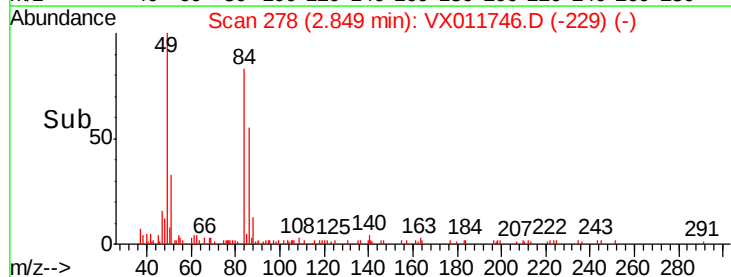
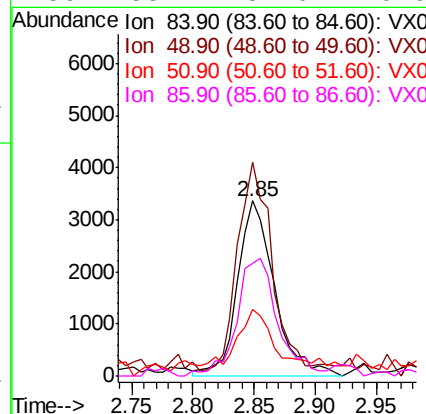
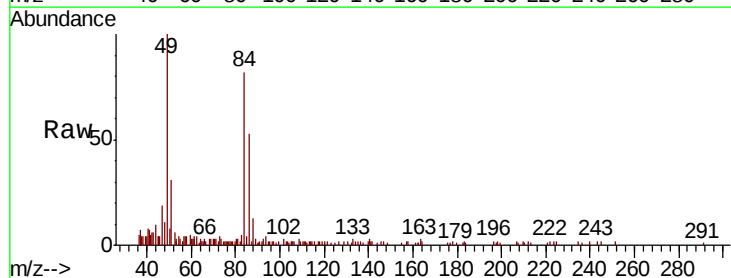
Instrument :
MSVOA_X
ClientSampleId :
T4-B2-(2)

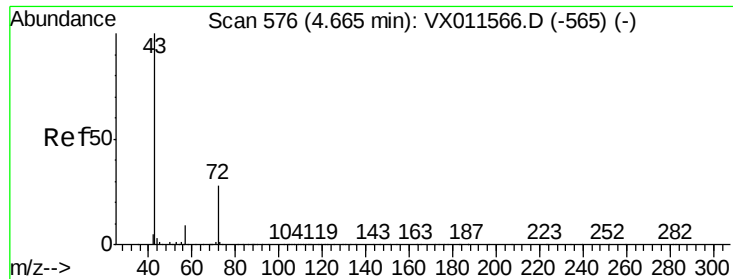
Tgt Ion: 43 Resp: 3612
Ion Ratio Lower Upper
43 100
74 38.3 19.7 29.5#



#20
Methylene Chloride
Concen: 1.552 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011746.D
Acq: 22 Aug 2019 01:52

Tgt Ion: 84 Resp: 7061
Ion Ratio Lower Upper
84 100
49 113.9 92.4 138.6
51 32.4 28.5 42.7
86 58.2 51.0 76.6





#25

2-Butanone

Concen: 0.720 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampled :

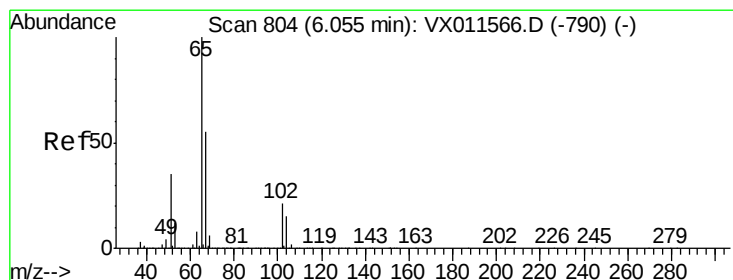
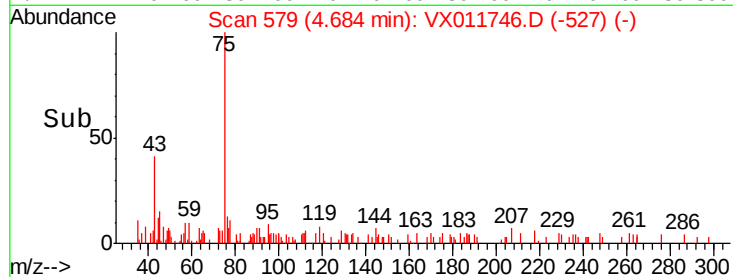
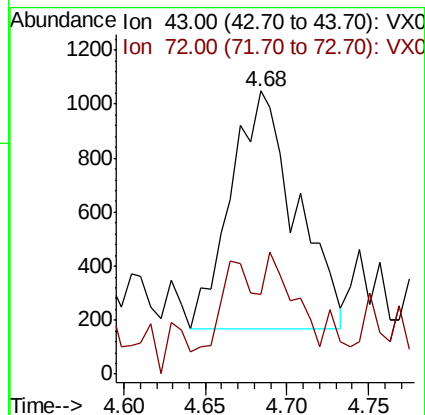
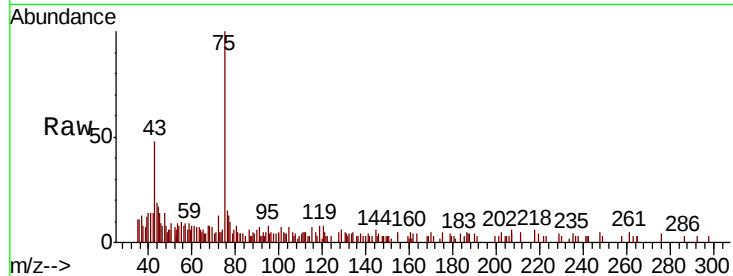
T4-B2-(2)

Tgt Ion: 43 Resp: 2448

Ion Ratio Lower Upper

43 100

72 19.8 22.2 33.4#



#33

1,2-Dichloroethane-d4

Concen: 51.948 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011746.D

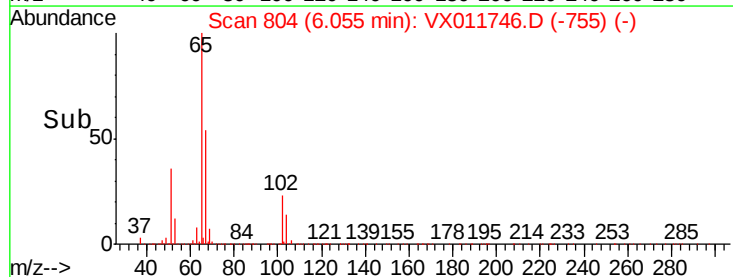
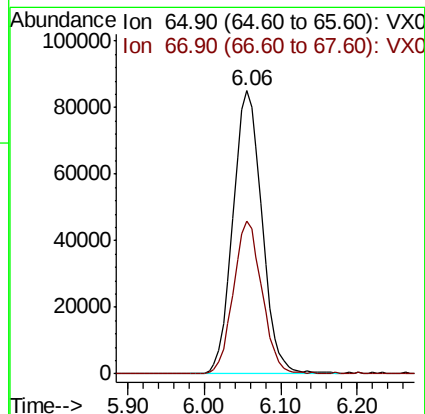
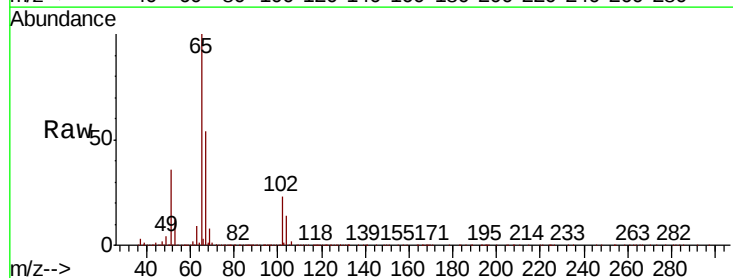
Acq: 22 Aug 2019 01:52

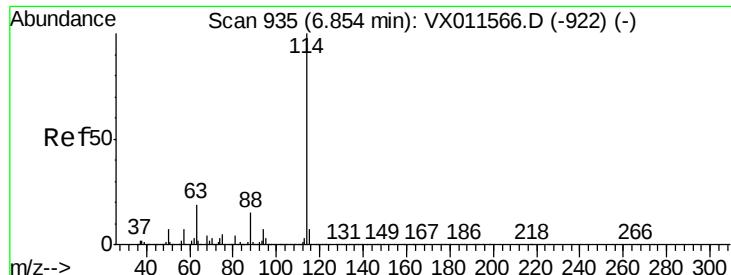
Tgt Ion: 65 Resp: 223875

Ion Ratio Lower Upper

65 100

67 52.8 0.0 107.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampleId :

T4-B2-(2)

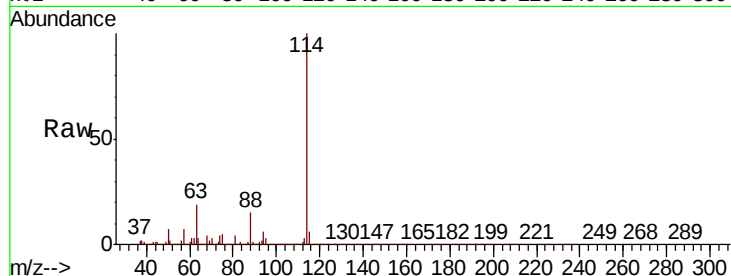
Tgt Ion:114 Resp: 621311

Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.8

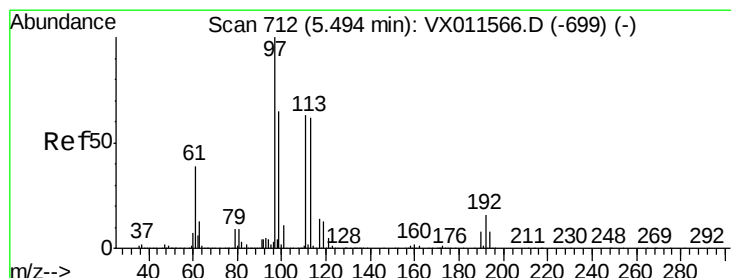
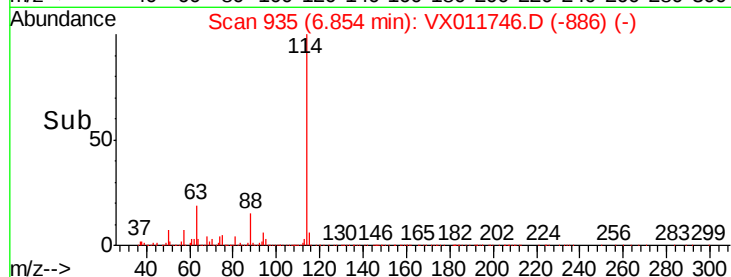
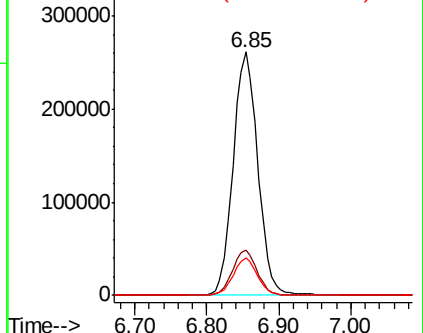
88 15.2 0.0 30.2



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: 47.972 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

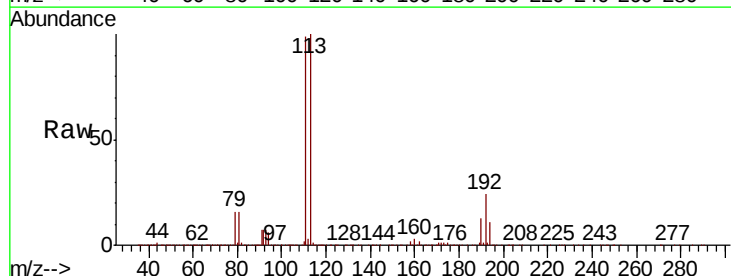
Tgt Ion:113 Resp: 194945

Ion Ratio Lower Upper

113 100

111 101.6 81.1 121.7

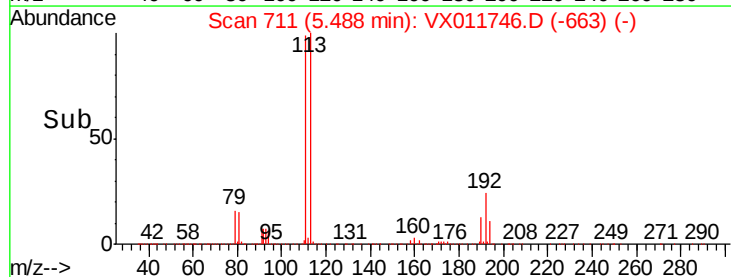
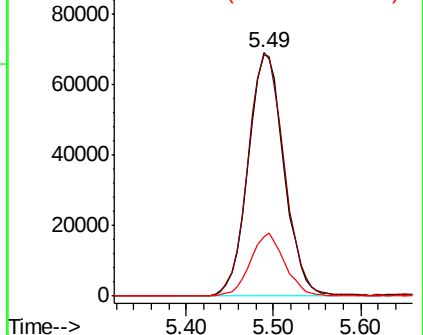
192 25.0 20.8 31.2

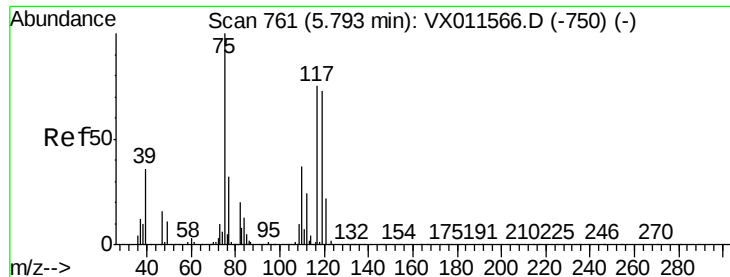


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.040 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampleId :

T4-B2-(2)

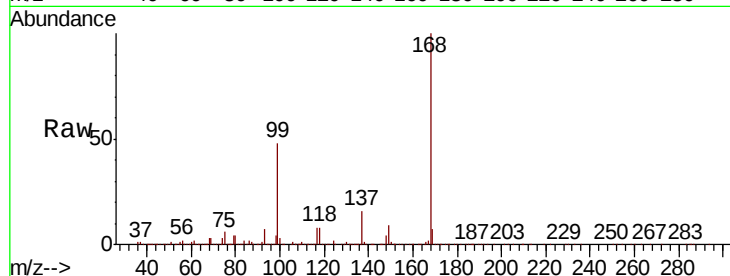
Tgt Ion: 75 Resp: 26771

Ion Ratio Lower Upper

75 100

110 12.9 19.4 58.1#

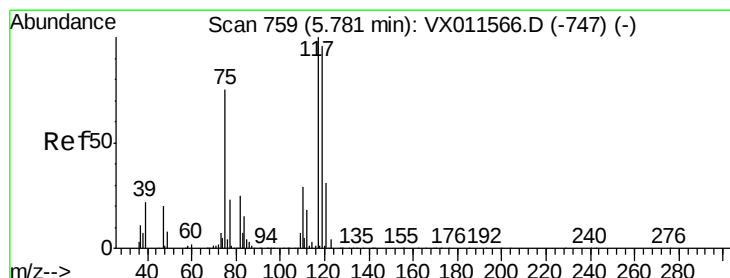
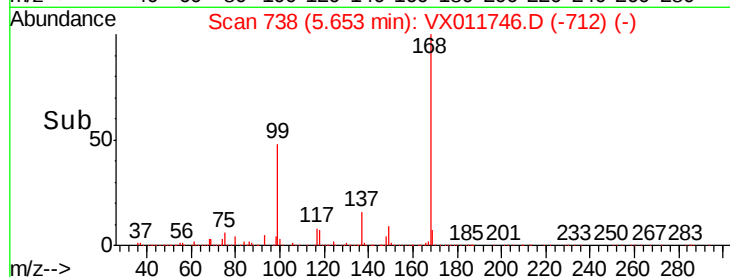
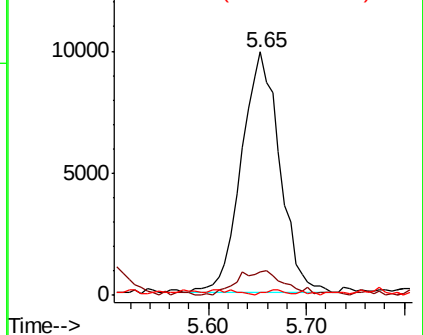
77 1.3 25.1 37.7#



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: 6.834 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

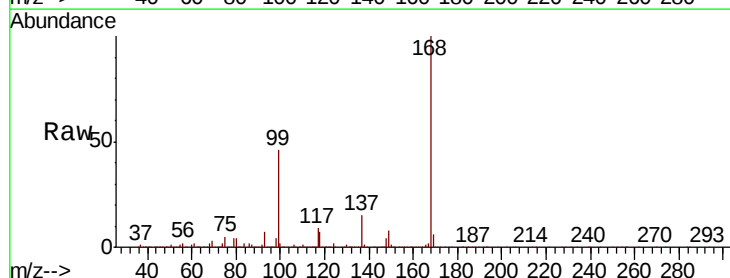
Tgt Ion: 117 Resp: 39999

Ion Ratio Lower Upper

117 100

119 4.6 76.9 115.3#

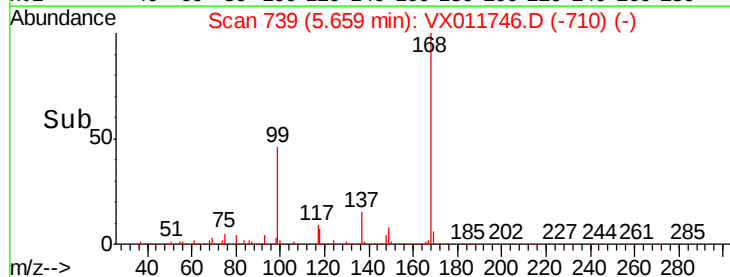
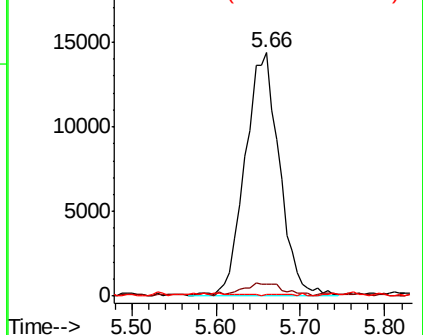
121 0.5 24.8 37.2#

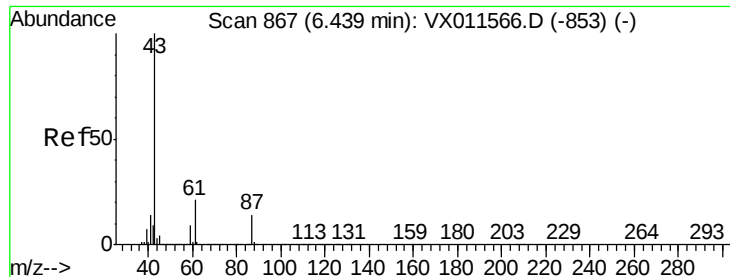


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 7.428 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampleId :

T4-B2-(2)

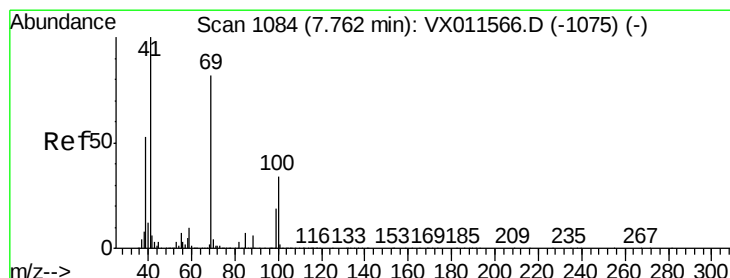
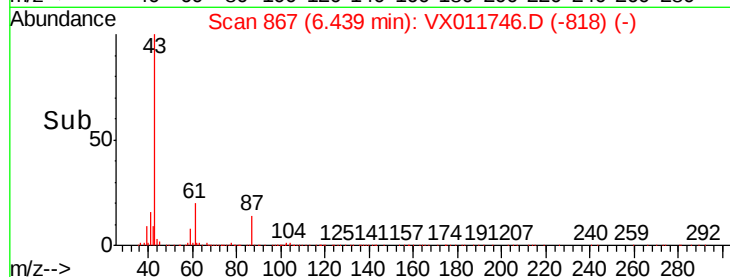
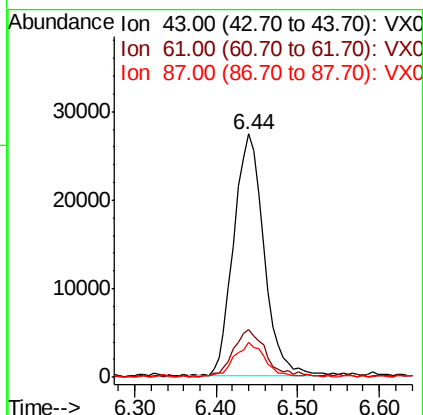
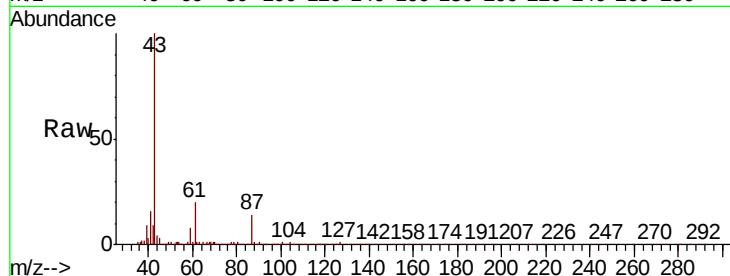
Tgt Ion: 43 Resp: 70831

Ion Ratio Lower Upper

43 100

61 20.3 16.6 24.8

87 14.6 11.4 17.2



#48

Methyl methacrylate

Concen: 0.846 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

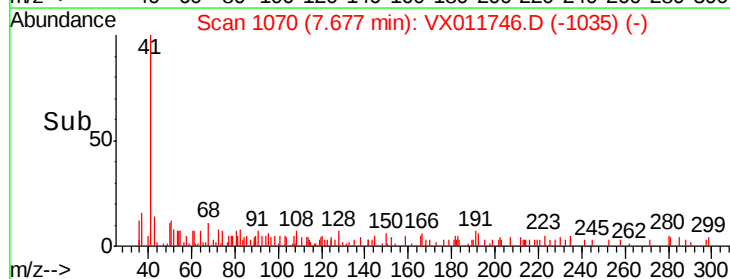
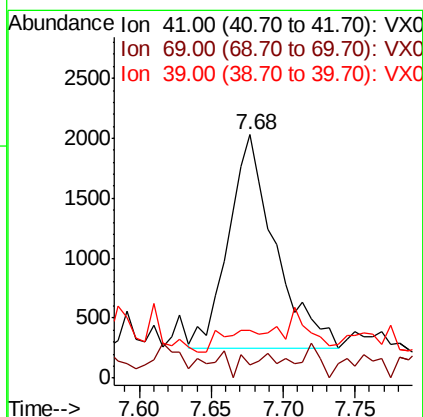
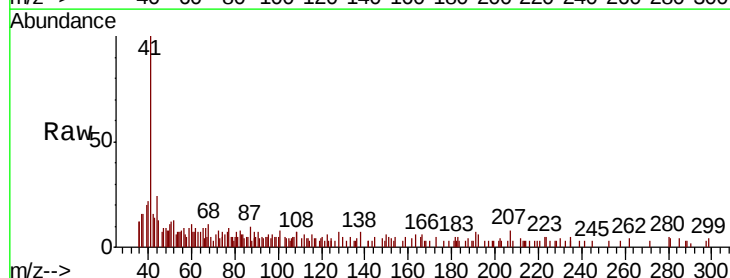
Tgt Ion: 41 Resp: 3996

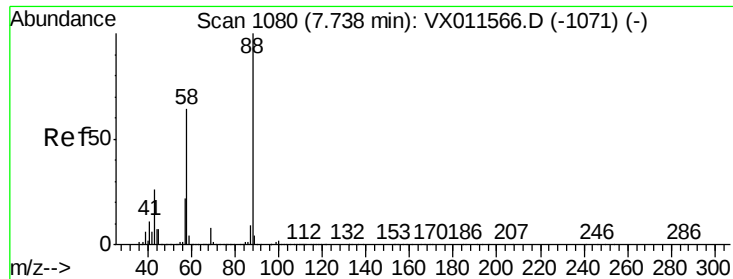
Ion Ratio Lower Upper

41 100

69 9.8 67.9 101.9#

39 0.0 41.6 62.4#





#49

1,4-Dioxane

Concen: 1.744 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampled :

T4-B2-(2)

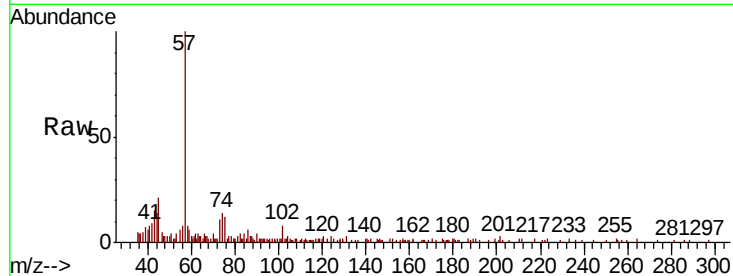
Tgt Ion: 88 Resp: 219

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.0#

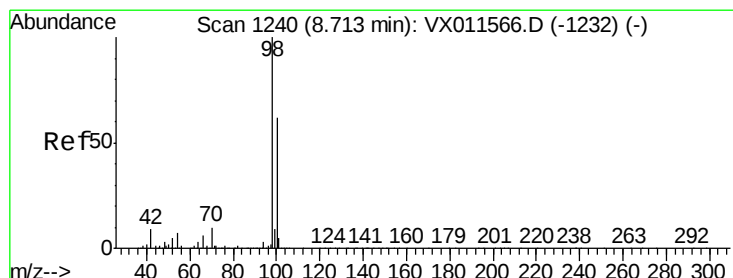
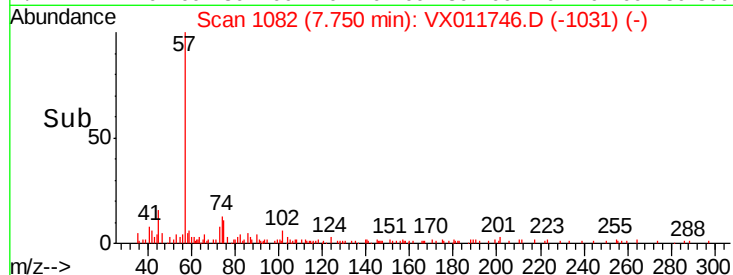
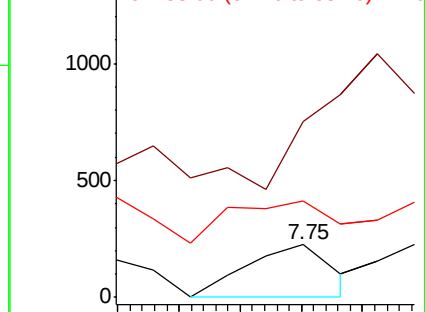
58 92.7 54.3 81.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 57.173 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011746.D

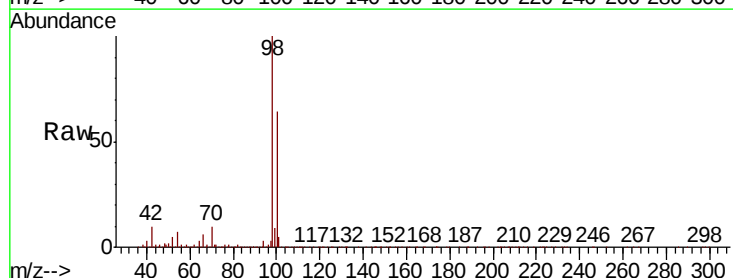
Acq: 22 Aug 2019 01:52

Tgt Ion: 98 Resp: 723940

Ion Ratio Lower Upper

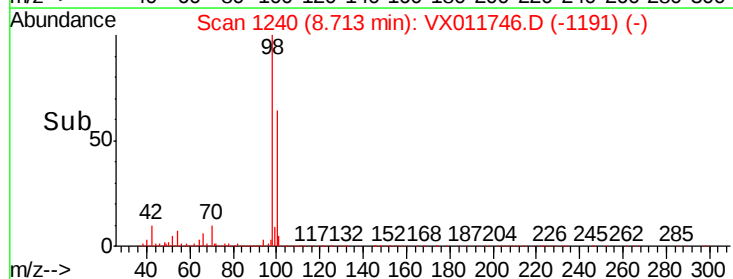
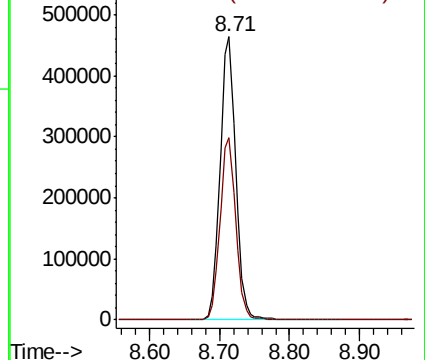
98 100

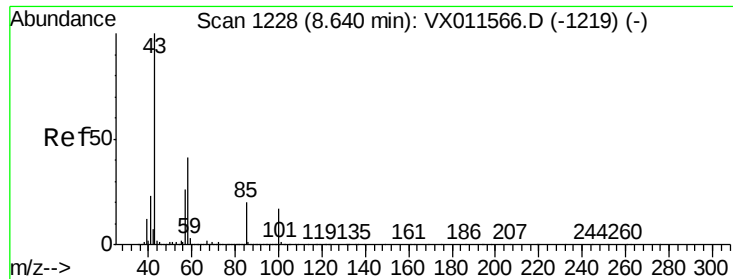
100 64.8 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

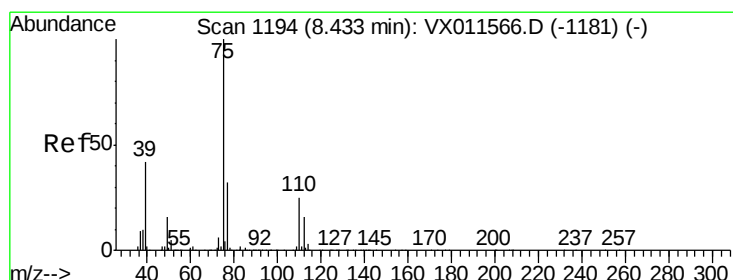
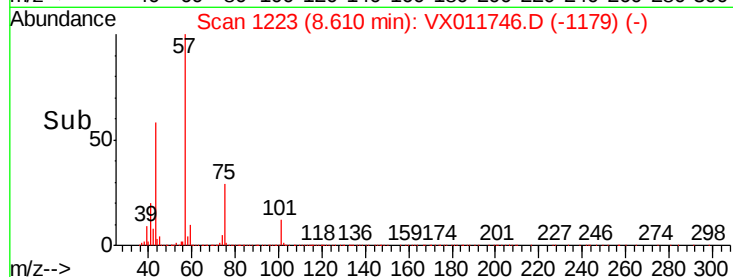
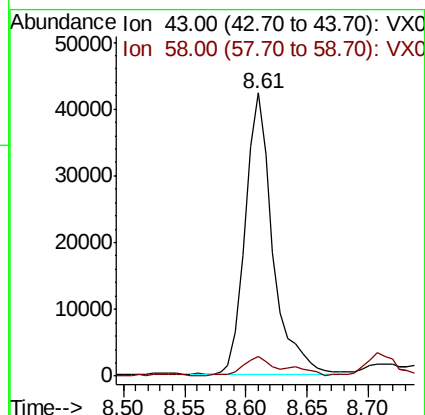
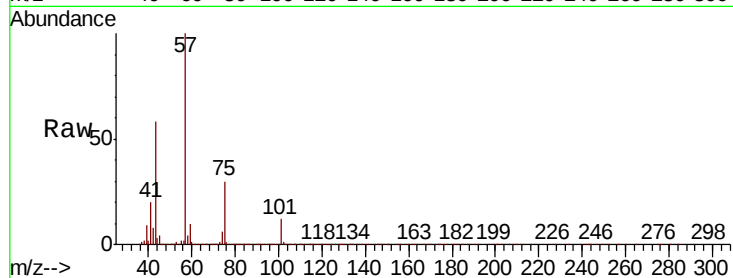




#51
 4-Methyl-2-Pentanone
 Concen: 10.564 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011746.D
 Acq: 22 Aug 2019 01:52

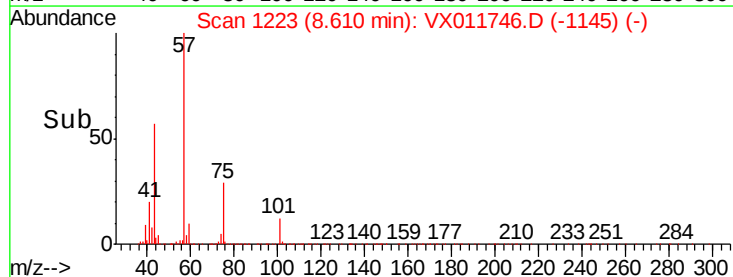
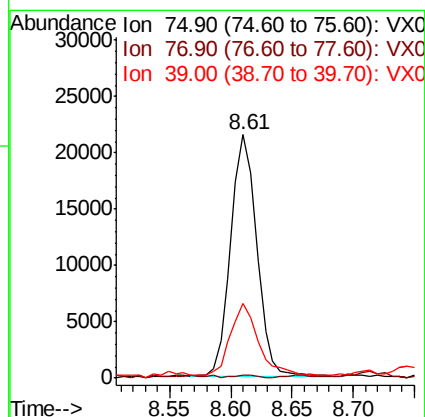
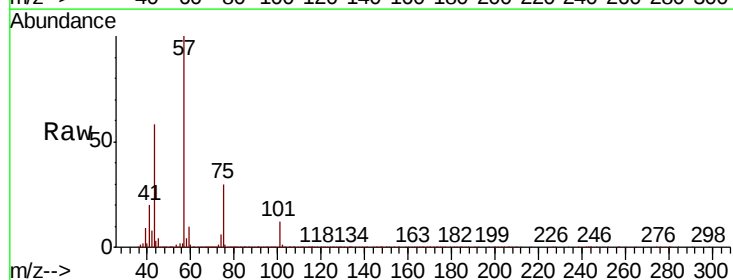
Instrument :
 MSVOA_X
 ClientSampleId :
 T4-B2-(2)

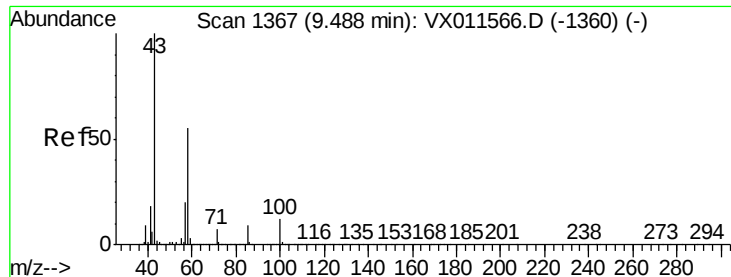
Tgt Ion: 43 Resp: 65930
 Ion Ratio Lower Upper
 43 100
 58 6.8 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 5.098 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011746.D
 Acq: 22 Aug 2019 01:52

Tgt Ion: 75 Resp: 31806
 Ion Ratio Lower Upper
 75 100
 77 0.2 25.5 38.3#
 39 29.4 33.6 50.4#

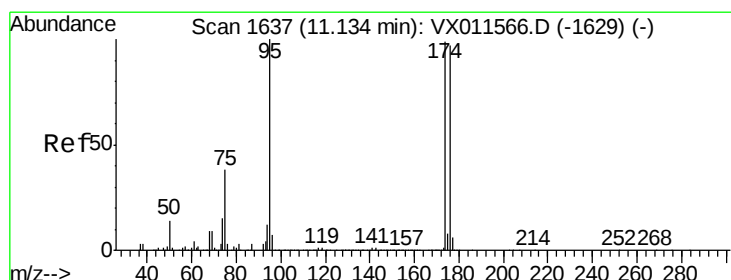
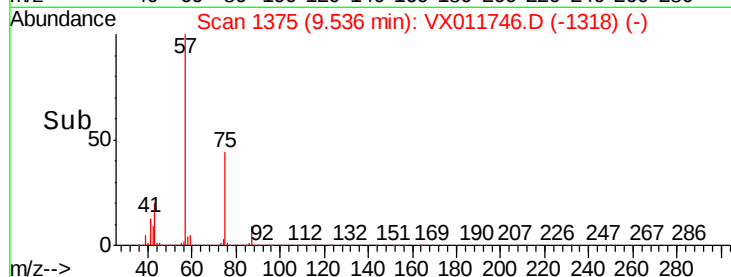
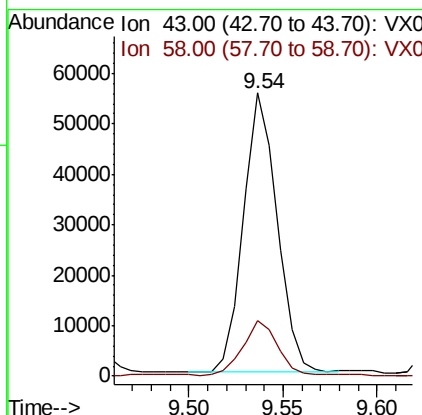
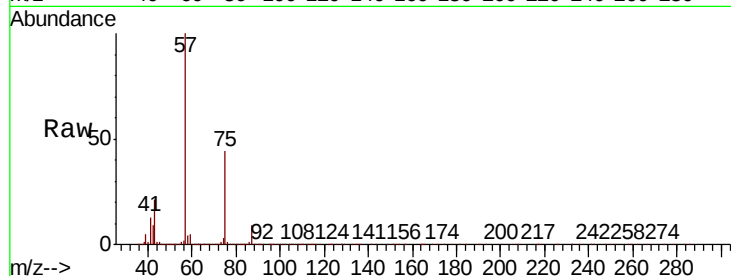




#59
2-Hexanone
Concen: 14.291 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011746.D
Acq: 22 Aug 2019 01:52

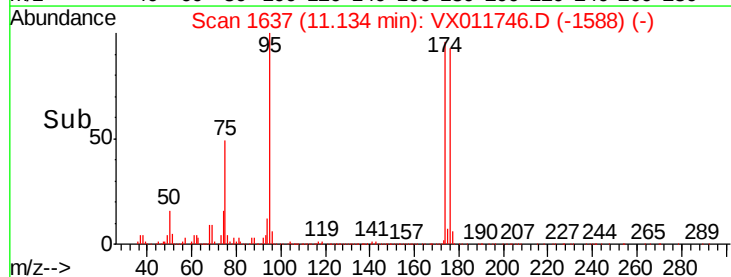
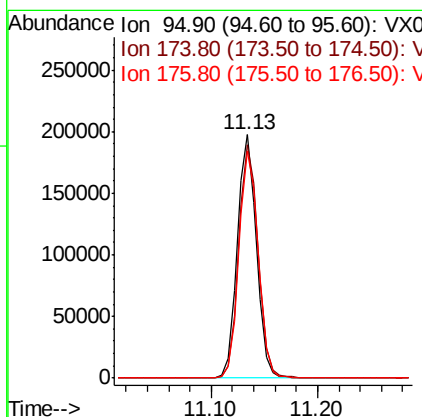
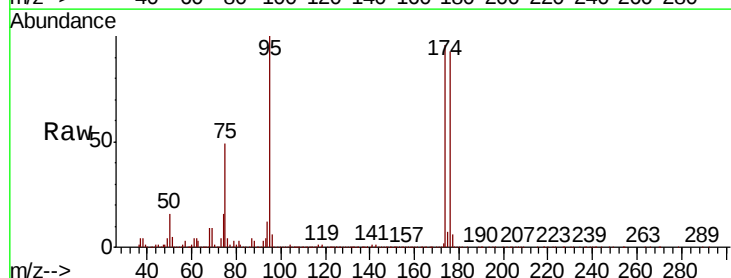
Instrument :
MSVOA_X
ClientSampleId :
T4-B2-(2)

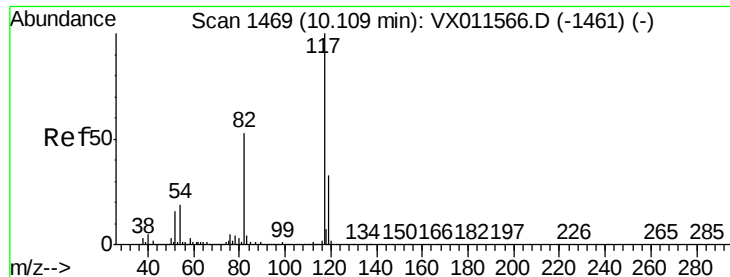
Tgt Ion: 43 Resp: 68781
Ion Ratio Lower Upper
43 100
58 20.0 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 46.517 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011746.D
Acq: 22 Aug 2019 01:52

Tgt Ion: 95 Resp: 248609
Ion Ratio Lower Upper
95 100
174 97.6 0.0 200.6
176 94.5 0.0 196.6

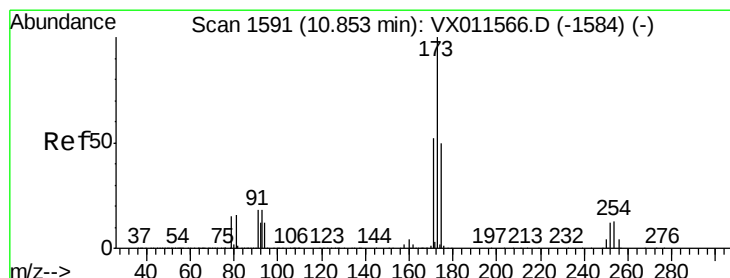
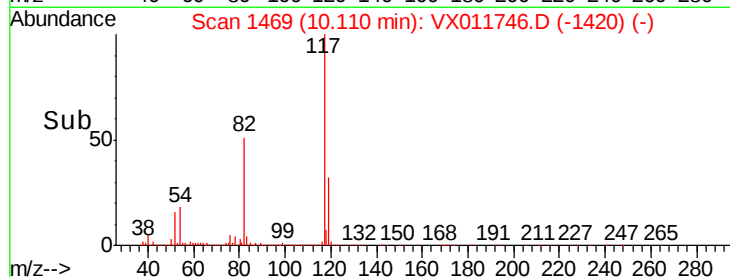
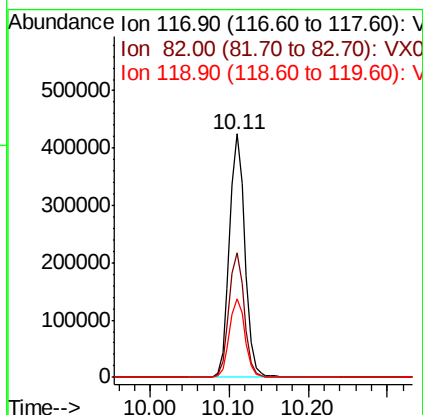
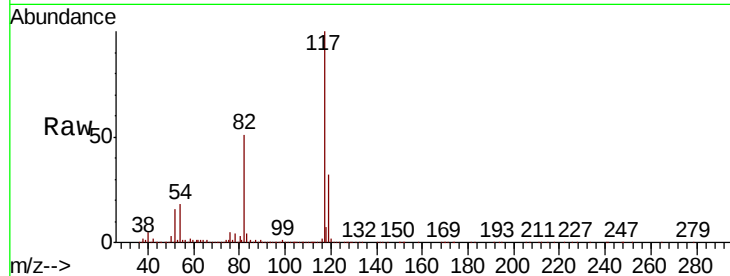




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011746.D
Acq: 22 Aug 2019 01:52

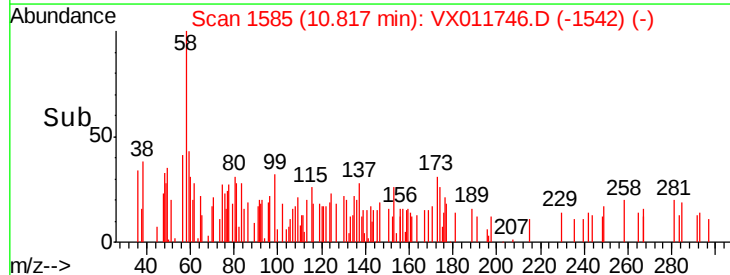
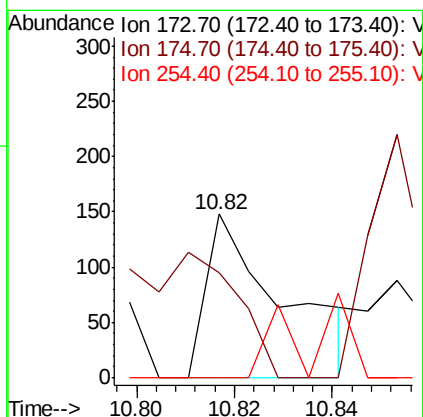
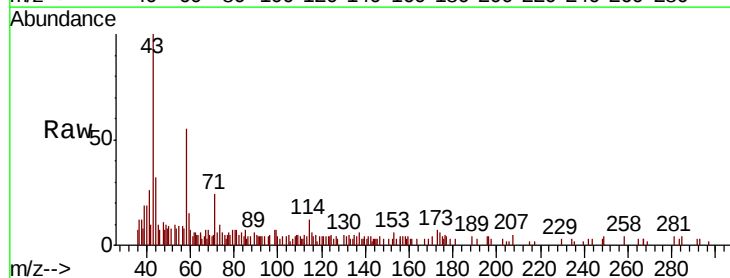
Instrument :
MSVOA_X
ClientSampled :
T4-B2-(2)

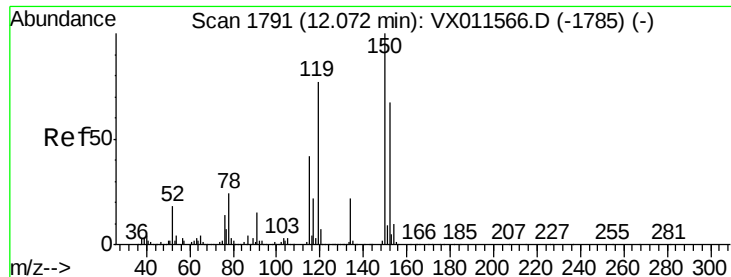
Tgt Ion:117 Resp: 578248
Ion Ratio Lower Upper
117 100
82 51.3 42.0 63.0
119 32.1 26.5 39.7



#71
Bromoform
Concen: 3.325 ug/l
RT: 10.82 min Scan# 1585
Delta R.T. -0.04 min
Lab File: VX011746.D
Acq: 22 Aug 2019 01:52

Tgt Ion:173 Resp: 161
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.7#
254 14.9 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampled :

T4-B2-(2)

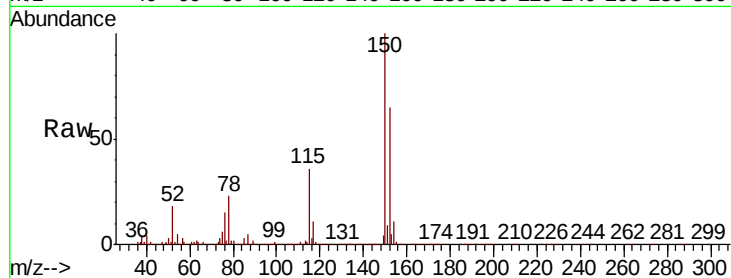
Tgt Ion:152 Resp: 275744

Ion Ratio Lower Upper

152 100

115 53.1 37.3 111.9

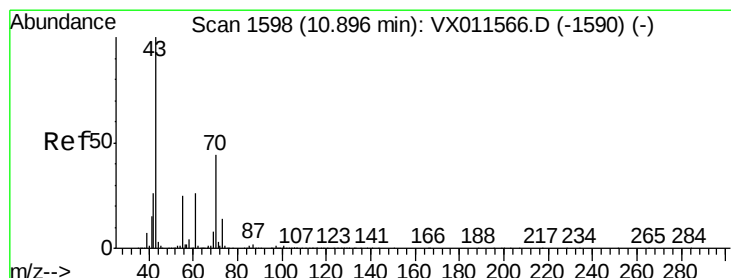
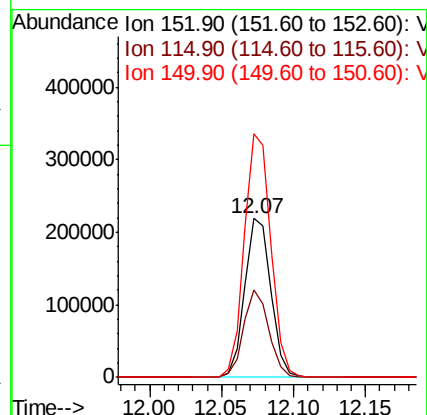
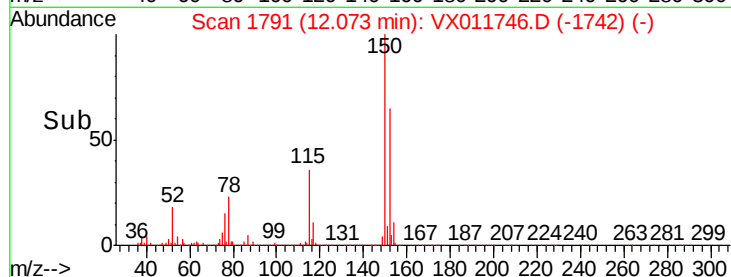
150 154.9 0.0 346.2



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



#74

N-aryl acetate

Concen: 0.461 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Tgt Ion: 43 Resp: 3507

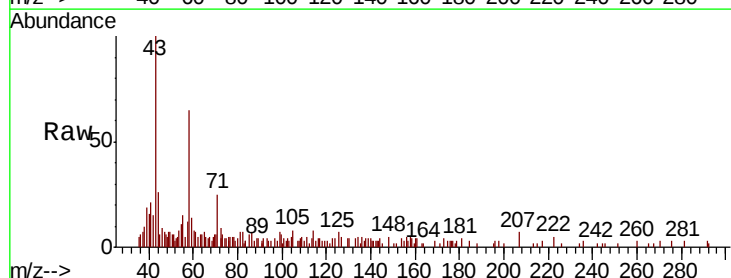
Ion Ratio Lower Upper

43 100

70 0.0 34.7 52.1#

55 8.2 19.6 29.4#

61 0.0 19.9 29.9#

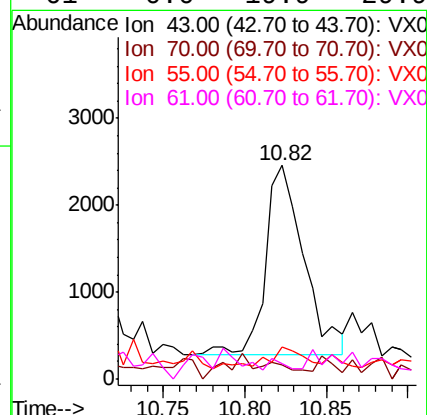
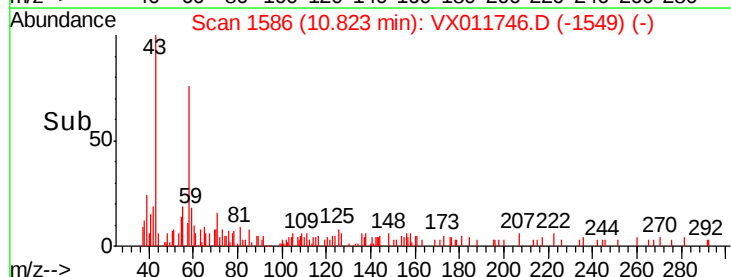


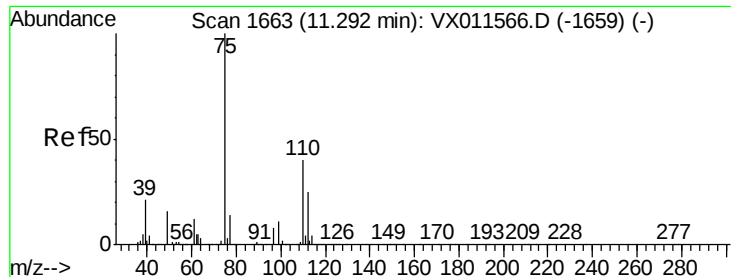
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.981 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Instrument :

MSVOA_X

ClientSampled :

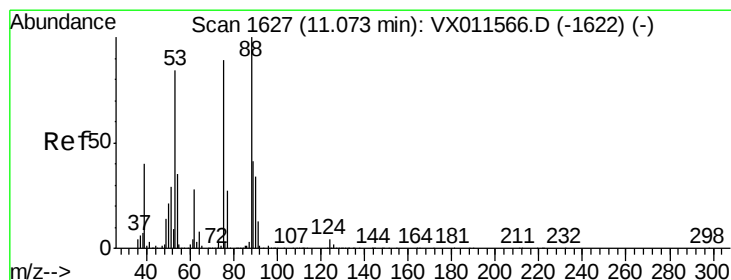
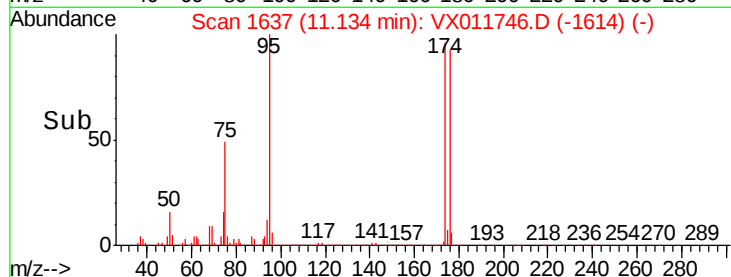
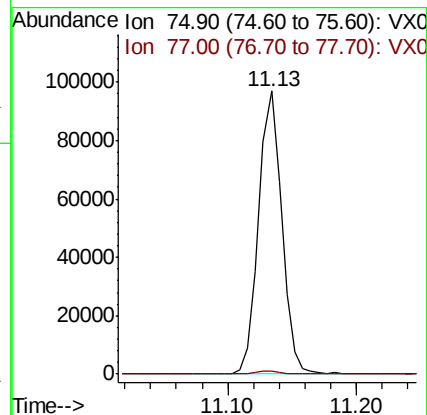
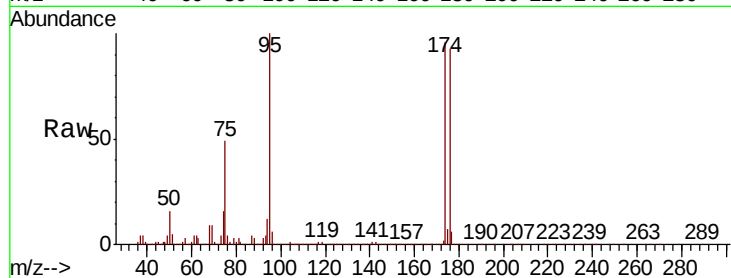
T4-B2-(2)

Tgt Ion: 75 Resp: 120161

Ion Ratio Lower Upper

75 100

77 1.3 20.9 62.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.154 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011746.D

Acq: 22 Aug 2019 01:52

Tgt Ion: 75 Resp: 120161

Ion Ratio Lower Upper

75 100

53 0.4 77.4 116.0#

89 0.1 37.3 55.9#

