

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082719\
 Data File : VX011859.D
 Acq On : 27 Aug 2019 18:48
 Operator : JC/SP
 Sample : K4525-24
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T9-12-13-A3(0)

Quant Time: Aug 28 02:25:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	430976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	596344	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	526175	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	265347	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	217101	50.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.30%	
35) Dibromofluoromethane	5.49	113	185861	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	
50) Toluene-d8	8.71	98	680736	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
62) 4-Bromofluorobenzene	11.13	95	252830	47.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.12%	

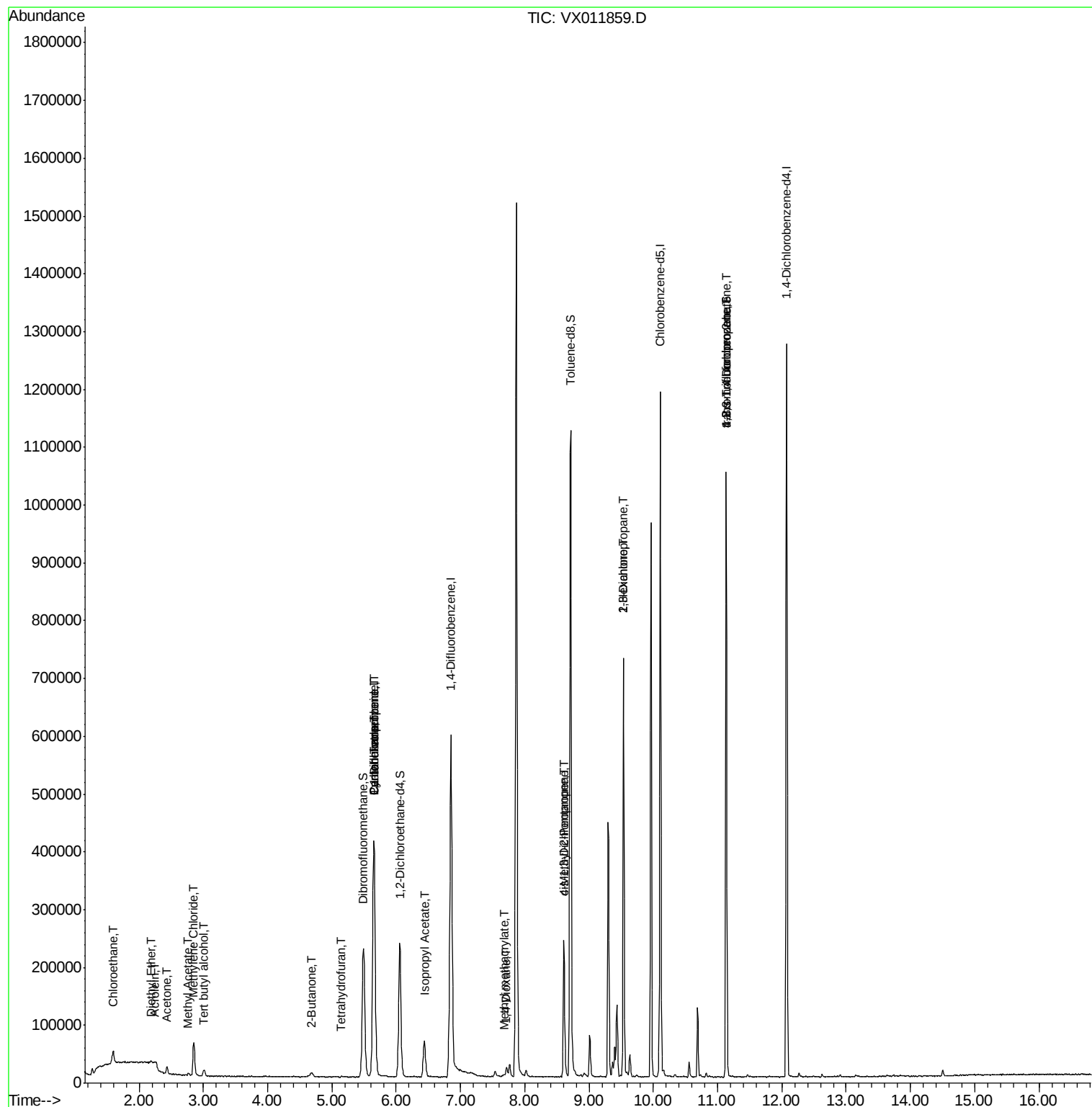
Target Compounds						Qvalue
6) Chloroethane	1.59	64	2491	1.208	ug/l #	50
8) Diethyl Ether	2.18	74	652	0.342	ug/l	63
11) Tert butyl alcohol	3.01	59	7530	8.802	ug/l #	79
13) Acrolein	2.24	56	278	0.841	ug/l #	16
16) Acetone	2.43	43	13972	7.419	ug/l	99
18) Methyl Acetate	2.77	43	4823	0.944	ug/l	95
20) Methylene Chloride	2.85	84	28081	7.293	ug/l #	88
25) 2-Butanone	4.68	43	2854	1.056	ug/l	91
29) Tetrahydrofuran	5.13	42	347	0.200	ug/l #	31
31) Cyclohexane	5.65	56	7221	1.356	ug/l #	4
36) 1,1-Dichloropropene	5.65	75	27579	5.897	ug/l #	50
38) Carbon Tetrachloride	5.65	117	36761	6.936	ug/l #	15
43) Isopropyl Acetate	6.44	43	91056	11.368	ug/l	99
48) Methyl methacrylate	7.68	41	4592	1.152	ug/l #	13
49) 1,4-Dioxane	7.71	88	53	0.480	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	85819	16.260	ug/l #	49
54) cis-1,3-Dichloropropene	8.61	75	39199	7.093	ug/l #	59
57) 1,3-Dichloropropane	9.54	76	6288	0.998	ug/l #	46
59) 2-Hexanone	9.54	43	85997	21.229	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	124484	26.736	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	124484	80.631	ug/l #	11

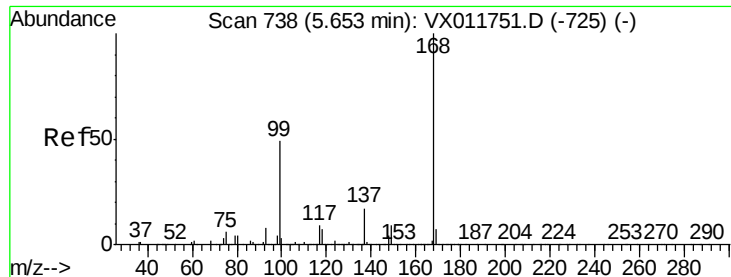
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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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: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

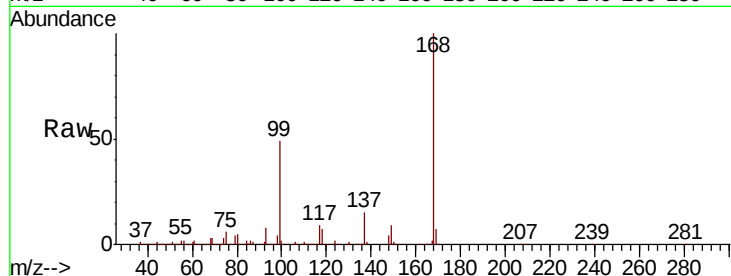
T9-12-13-A3(0)

Tgt Ion:168 Resp: 430976

Ion Ratio Lower Upper

168 100

99 48.5 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

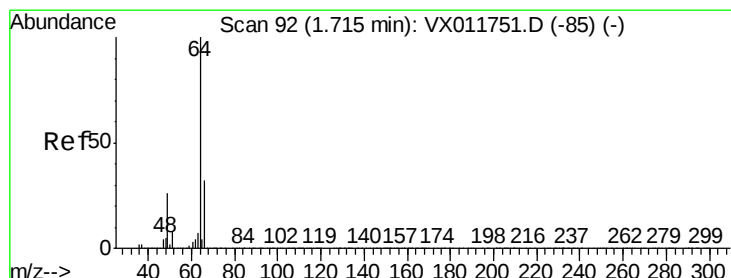
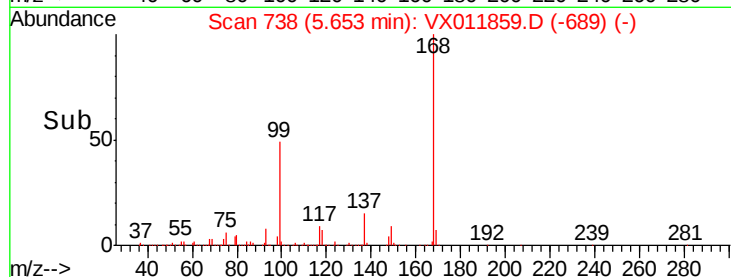
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 1.208 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.12 min

Lab File: VX011859.D

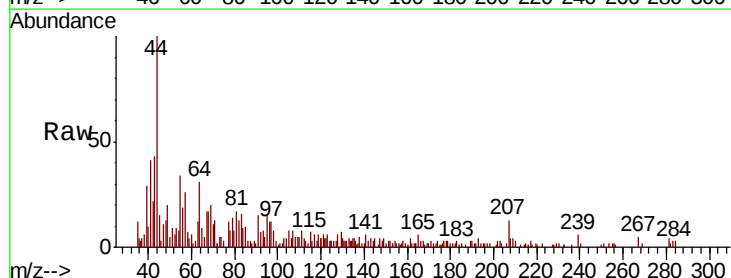
Acq: 27 Aug 2019 18:48

Tgt Ion: 64 Resp: 2491

Ion Ratio Lower Upper

64 100

66 3.7 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1500

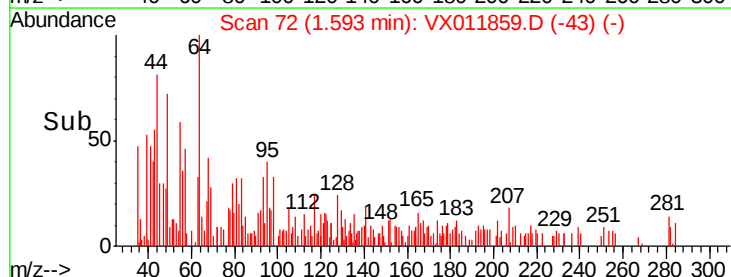
1000

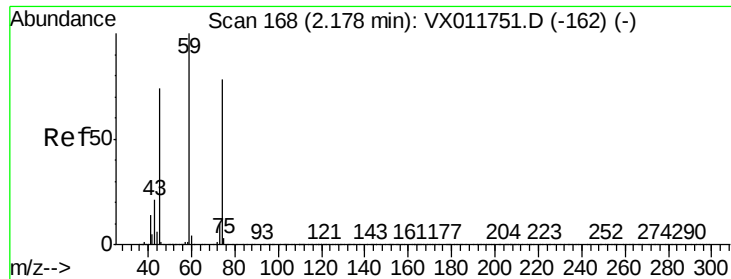
500

0

Time-->

1.50 1.55 1.60





#8

Diethyl Ether

Concen: 0.342 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

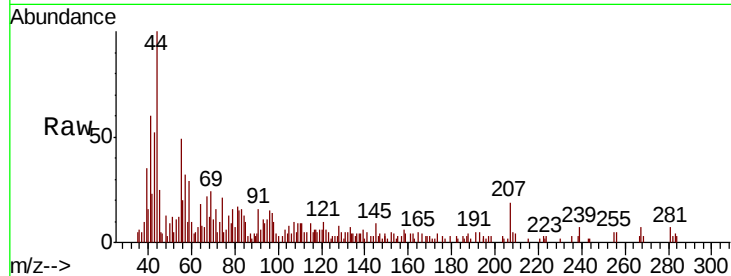
T9-12-13-A3(0)

Tgt Ion: 74 Resp: 652

Ion Ratio Lower Upper

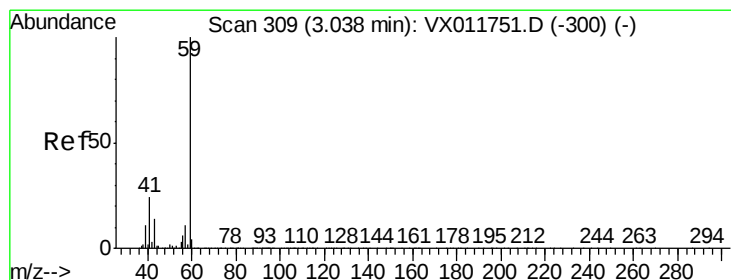
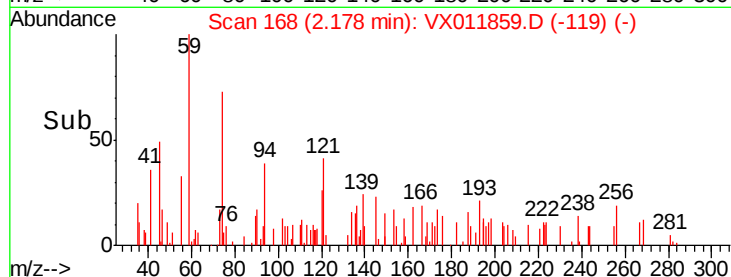
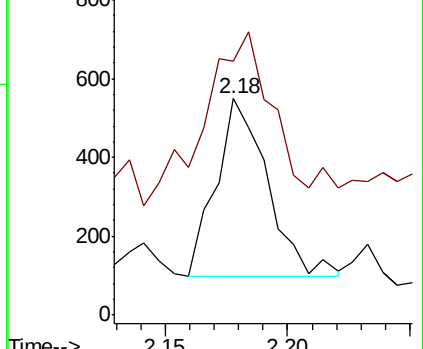
74 100

45 129.1 46.7 140.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 8.802 ug/l

RT: 3.01 min Scan# 304

Delta R.T. -0.03 min

Lab File: VX011859.D

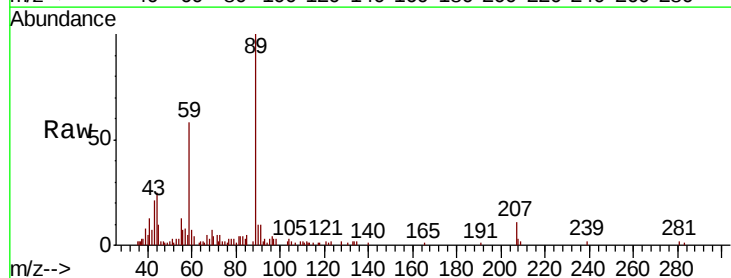
Acq: 27 Aug 2019 18:48

Tgt Ion: 59 Resp: 7530

Ion Ratio Lower Upper

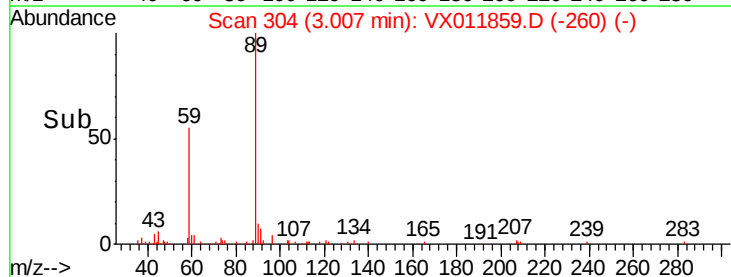
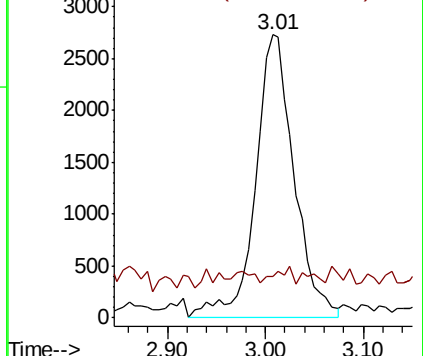
59 100

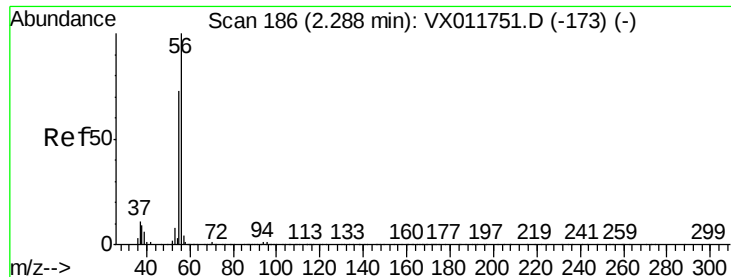
57 2.6 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.841 ug/l

RT: 2.24 min Scan# 178

Delta R.T. -0.05 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

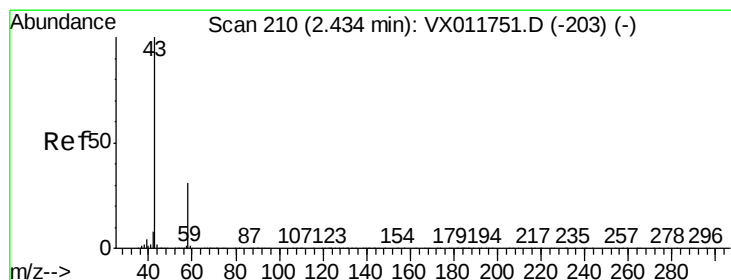
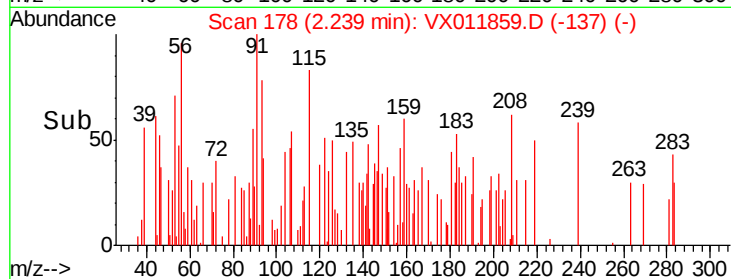
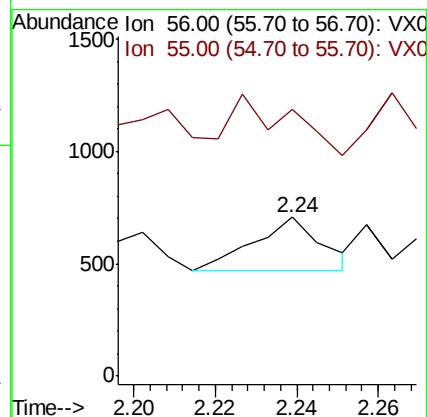
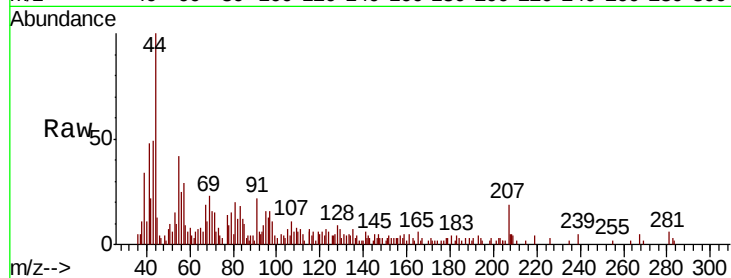
T9-12-13-A3(0)

Tgt Ion: 56 Resp: 278

Ion Ratio Lower Upper

56 100

55 0.0 54.8 82.2#



#16

Acetone

Concen: 7.419 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011859.D

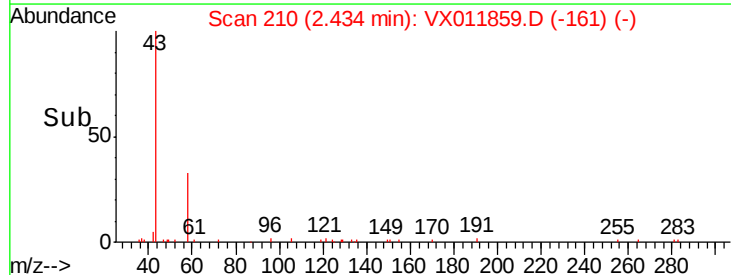
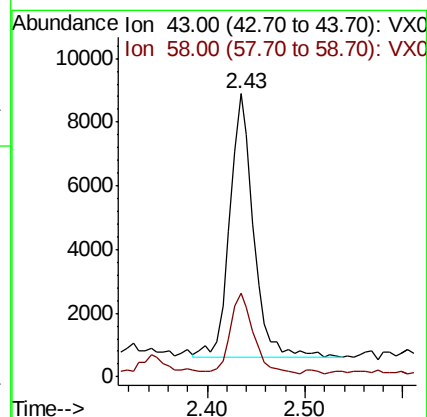
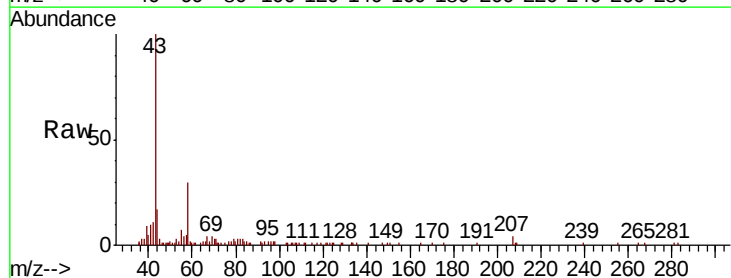
Acq: 27 Aug 2019 18:48

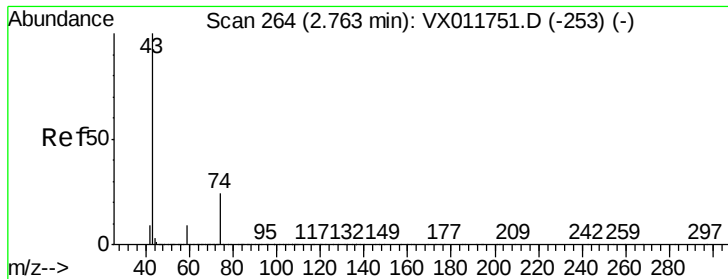
Tgt Ion: 43 Resp: 13972

Ion Ratio Lower Upper

43 100

58 29.7 24.4 36.6

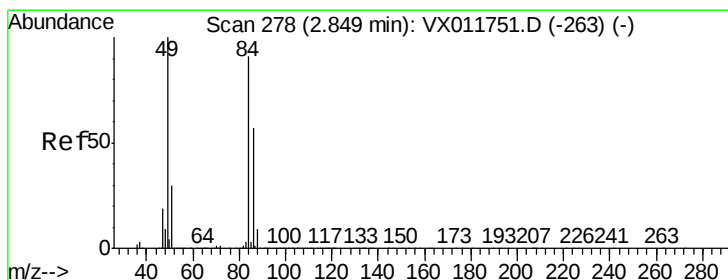
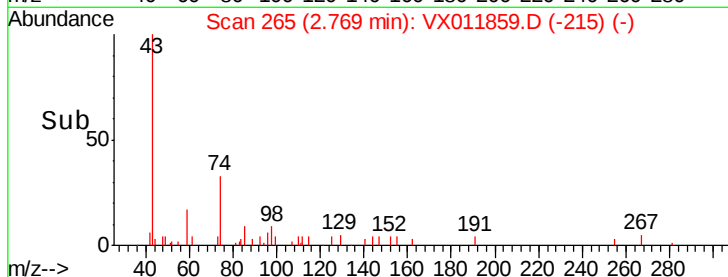
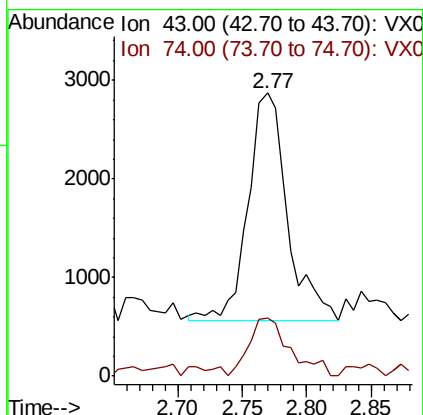
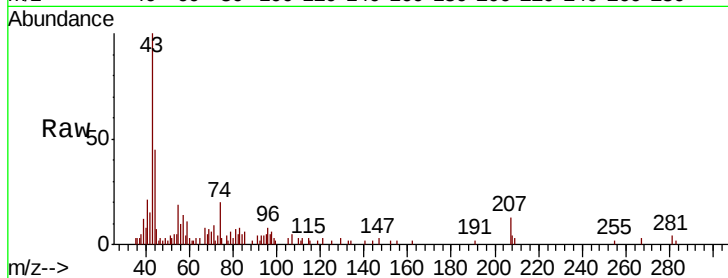




#18
Methyl Acetate
Concen: 0.944 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011859.D
Acq: 27 Aug 2019 18:48

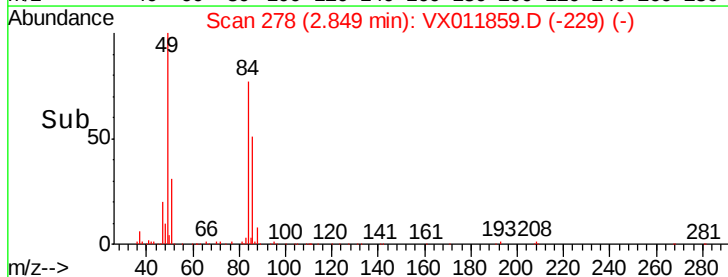
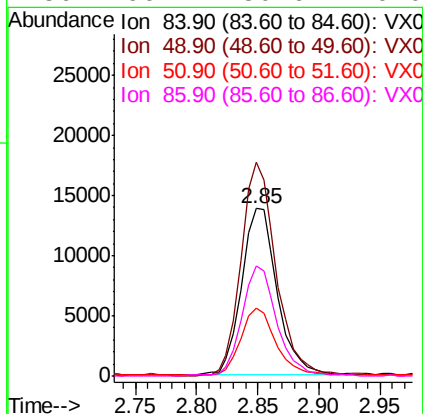
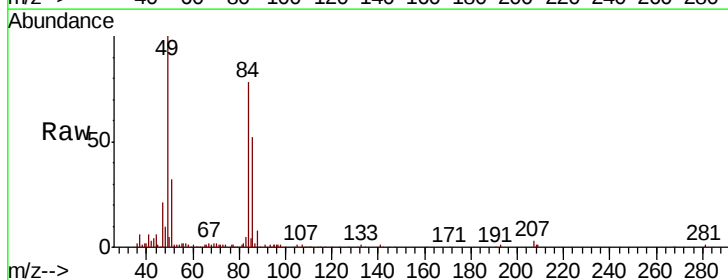
Instrument :
MSVOA_X
ClientSampleId :
T9-12-13-A3(0)

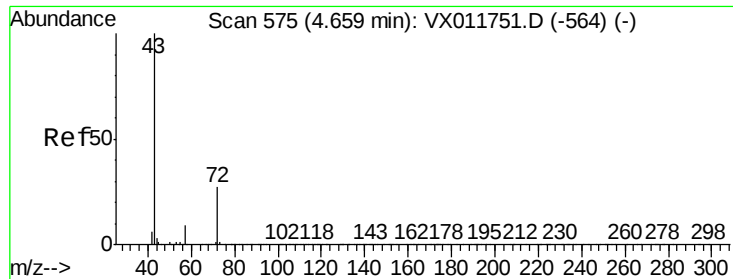
Tgt Ion: 43 Resp: 4823
Ion Ratio Lower Upper
43 100
74 26.7 19.5 29.3



#20
Methylene Chloride
Concen: 7.293 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011859.D
Acq: 27 Aug 2019 18:48

Tgt Ion: 84 Resp: 28081
Ion Ratio Lower Upper
84 100
49 128.6 88.3 132.5
51 39.8 26.2 39.2#
86 66.1 50.6 76.0





#25

2-Butanone

Concen: 1.056 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.02 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

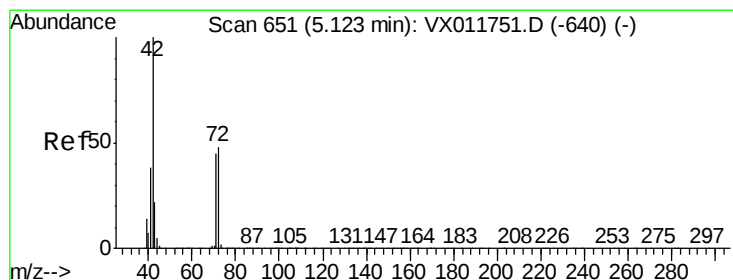
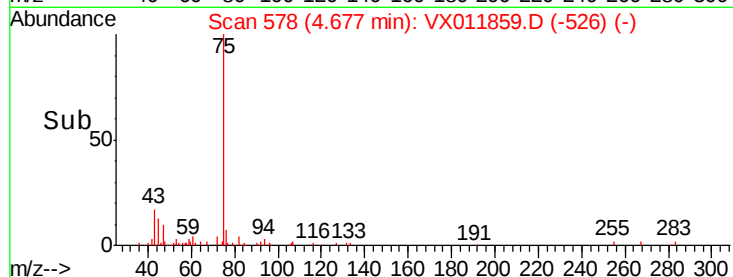
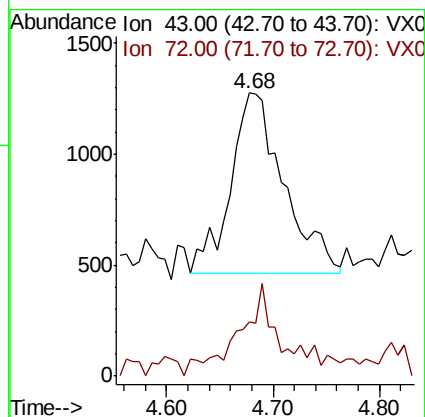
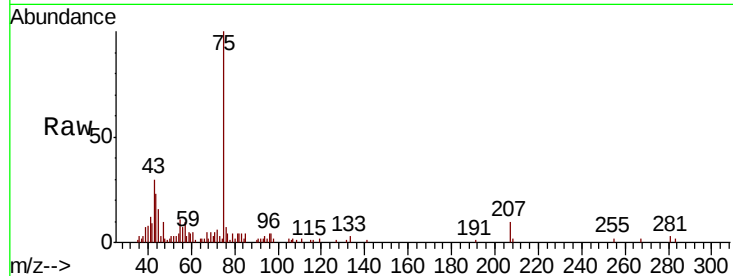
T9-12-13-A3(0)

Tgt Ion: 43 Resp: 2854

Ion Ratio Lower Upper

43 100

72 22.5 21.8 32.6



#29

Tetrahydrofuran

Concen: 0.200 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

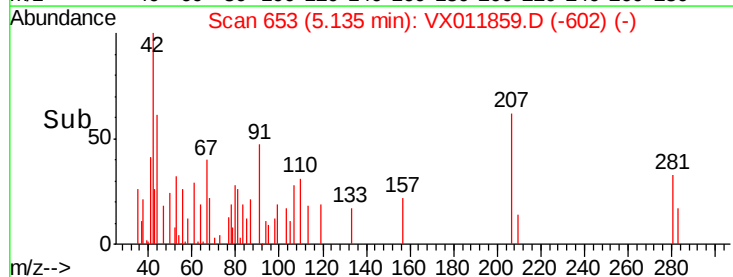
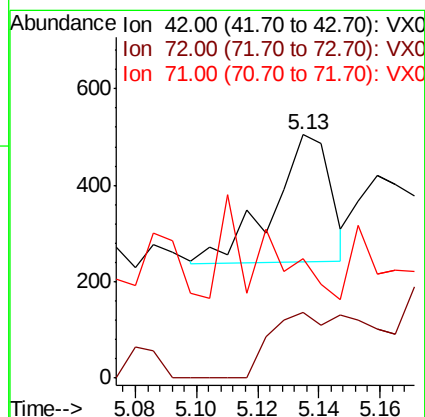
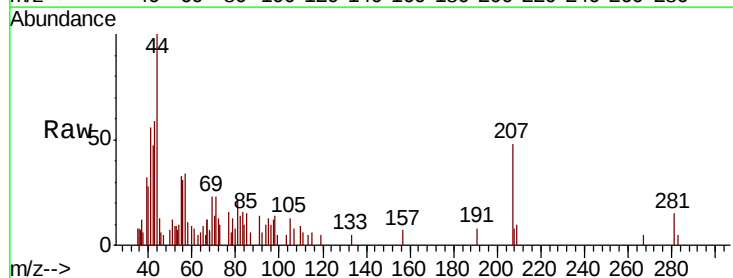
Tgt Ion: 42 Resp: 347

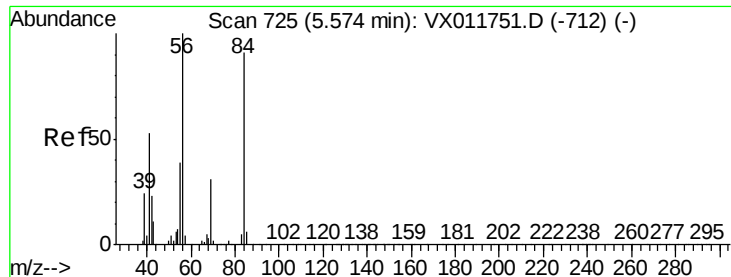
Ion Ratio Lower Upper

42 100

72 94.2 37.6 56.4#

71 0.0 34.6 51.8#

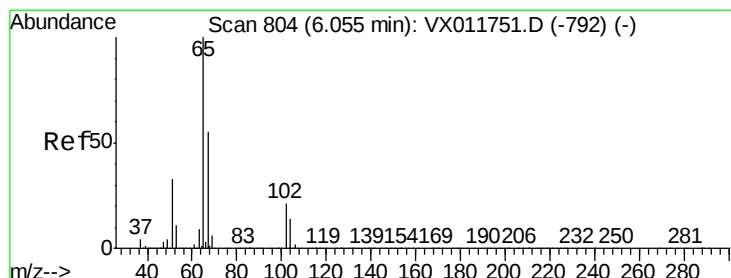
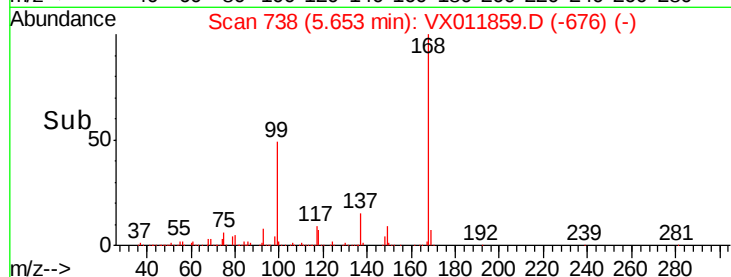
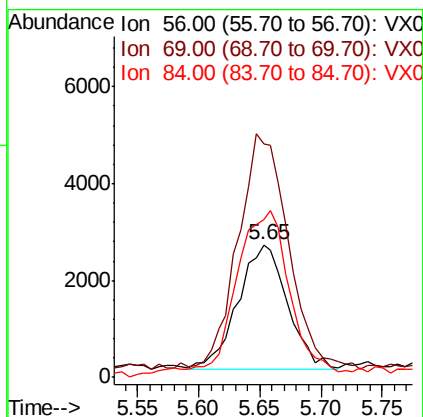
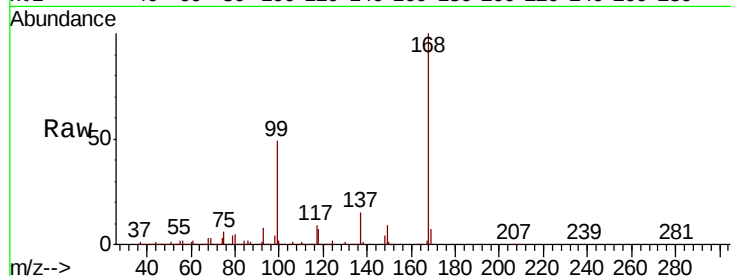




#31
Cyclohexane
Concen: 1.356 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX011859.D
Acq: 27 Aug 2019 18:48

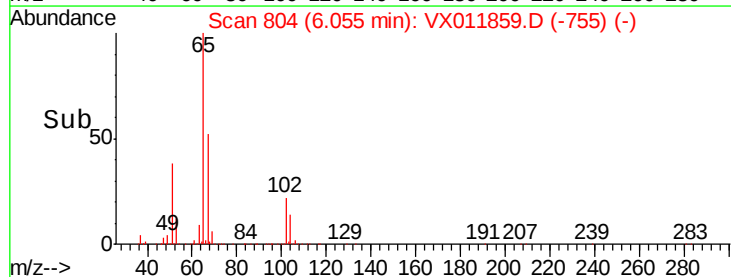
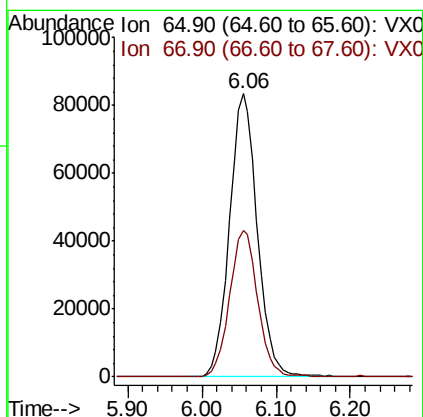
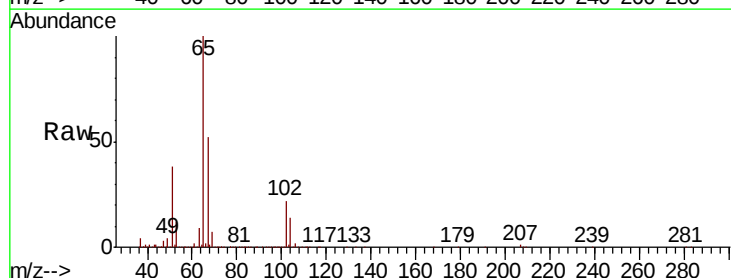
Instrument :
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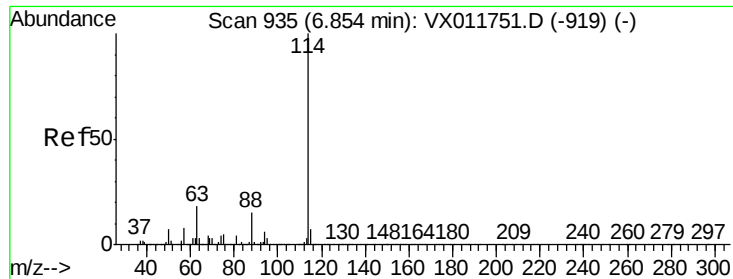
Tgt Ion: 56 Resp: 7221
Ion Ratio Lower Upper
56 100
69 181.2 24.5 36.7#
84 124.2 72.7 109.1#



#33
1,2-Dichloroethane-d4
Concen: 50.146 ug/l
RT: 6.06 min Scan# 804
Delta R.T. -0.00 min
Lab File: VX011859.D
Acq: 27 Aug 2019 18:48

Tgt Ion: 65 Resp: 217101
Ion Ratio Lower Upper
65 100
67 52.1 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-A3(0)

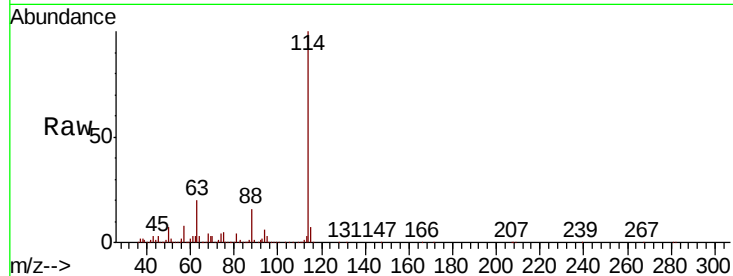
Tgt Ion:114 Resp: 596344

Ion Ratio Lower Upper

114 100

63 20.0 0.0 36.8

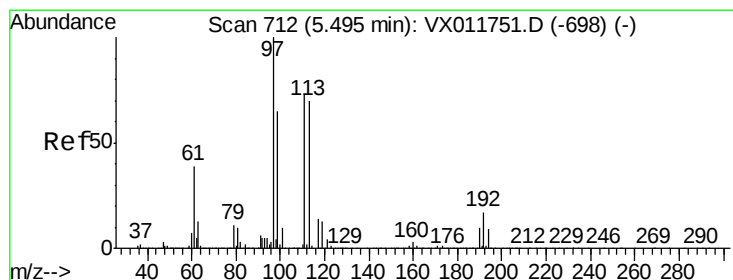
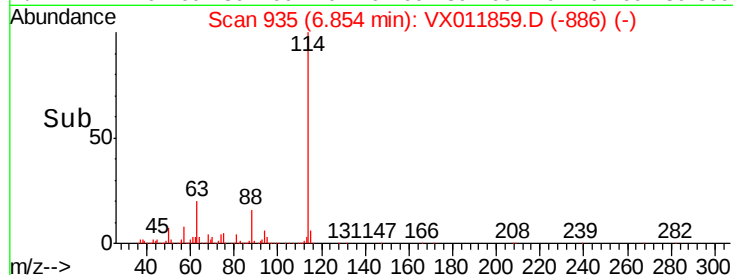
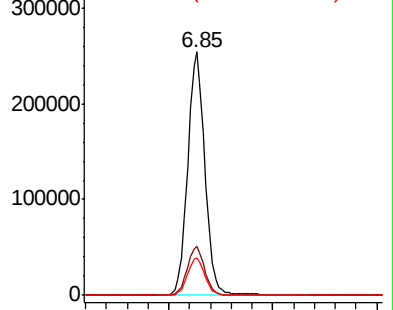
88 15.5 0.0 30.2



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: 48.198 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

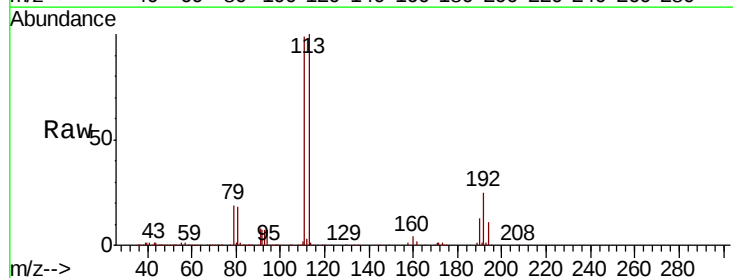
Tgt Ion:113 Resp: 185861

Ion Ratio Lower Upper

113 100

111 102.9 81.0 121.4

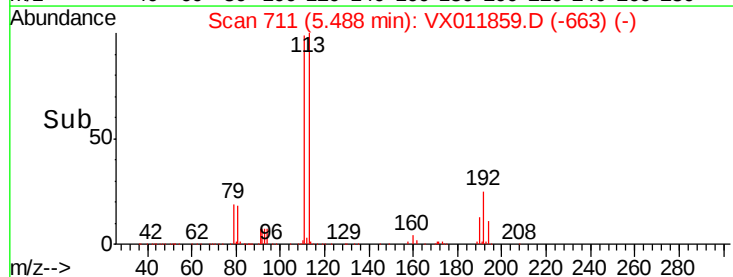
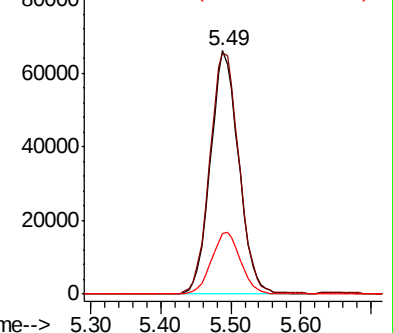
192 25.9 19.9 29.9

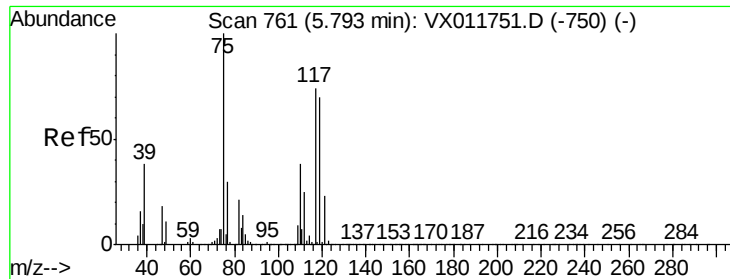


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.897 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-A3(0)

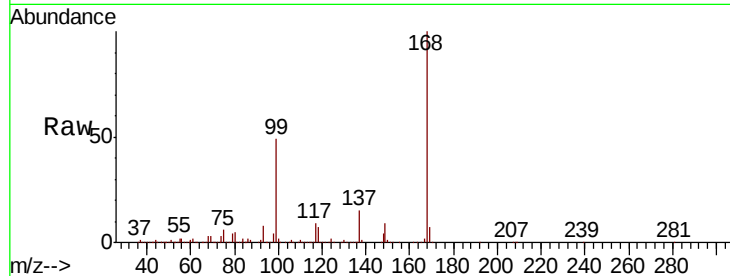
Tgt Ion: 75 Resp: 27579

Ion Ratio Lower Upper

75 100

110 10.8 19.0 57.0#

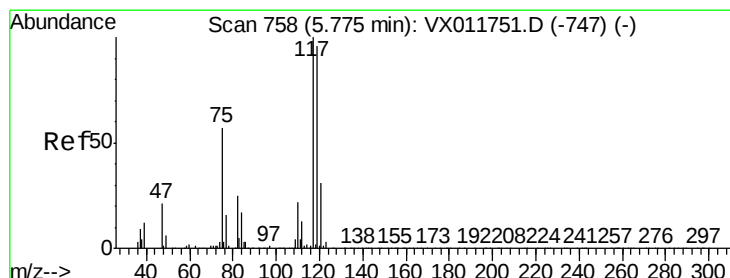
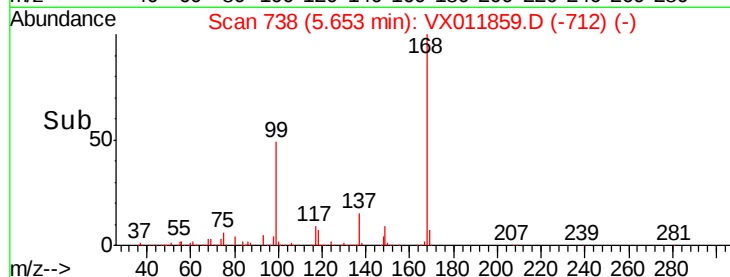
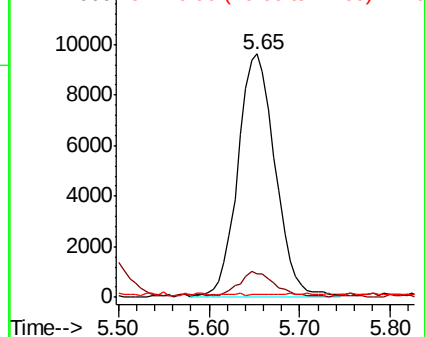
77 0.0 24.6 36.8#



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: 6.936 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

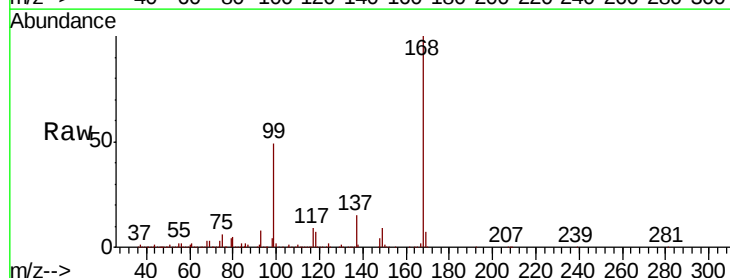
Tgt Ion: 117 Resp: 36761

Ion Ratio Lower Upper

117 100

119 3.7 76.6 114.8#

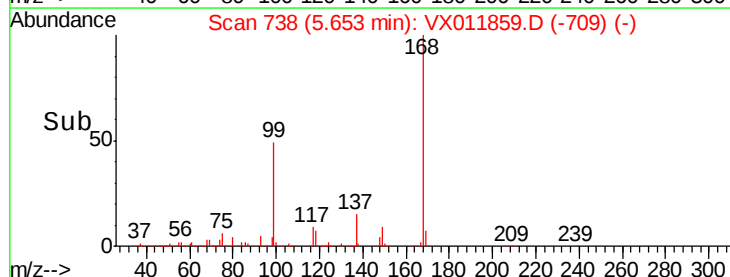
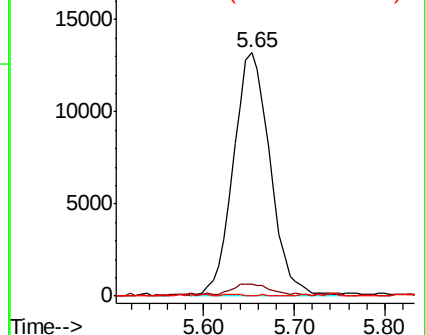
121 0.4 25.2 37.8#

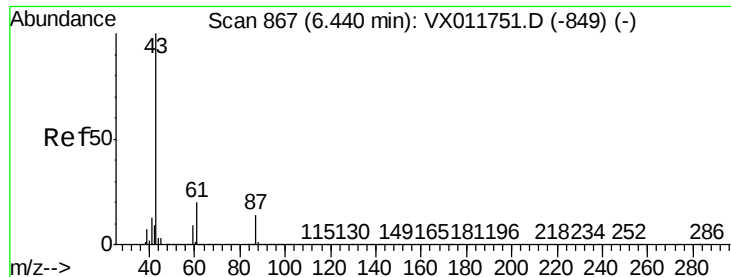


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 11.368 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-A3(0)

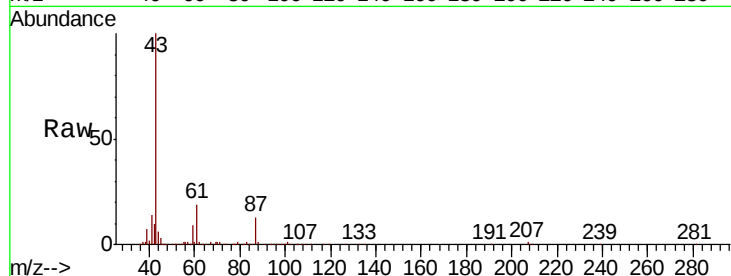
Tgt Ion: 43 Resp: 91056

Ion Ratio Lower Upper

43 100

61 20.0 16.2 24.2

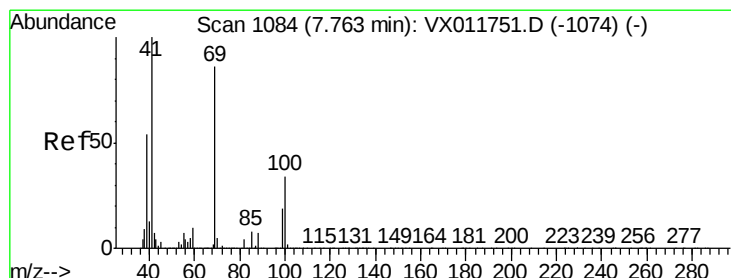
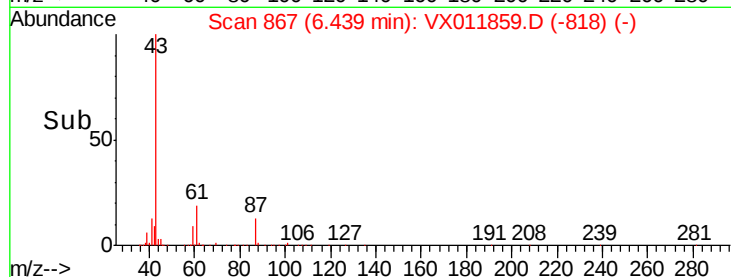
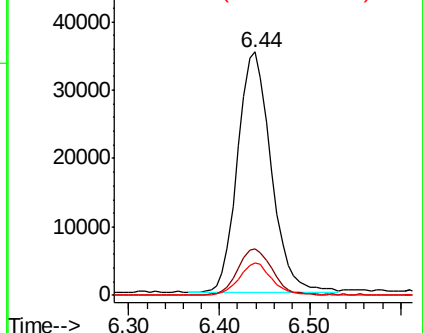
87 13.3 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.152 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.08 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

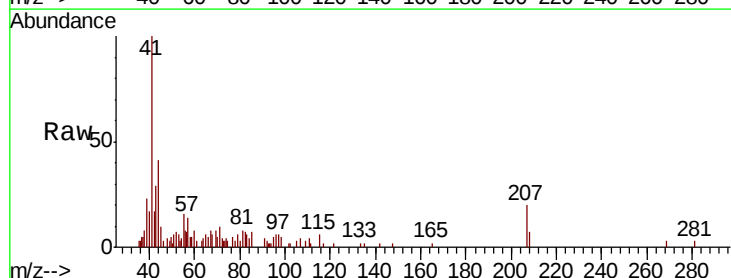
Tgt Ion: 41 Resp: 4592

Ion Ratio Lower Upper

41 100

69 0.0 69.4 104.2#

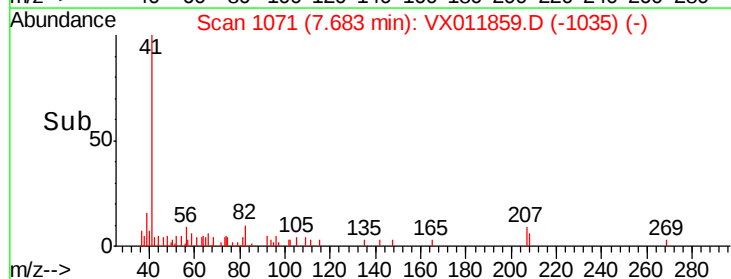
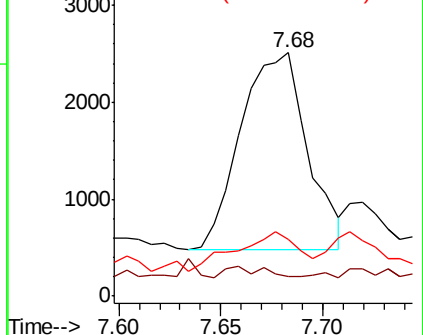
39 0.0 43.6 65.4#

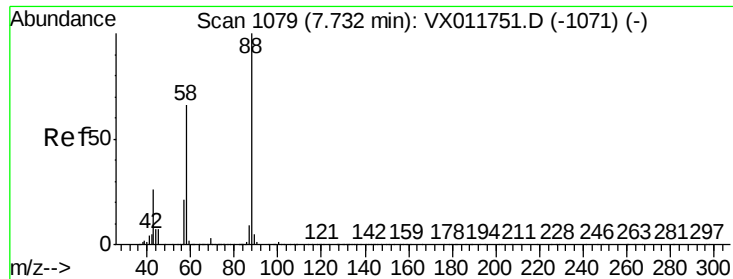


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.480 ug/l

RT: 7.71 min Scan# 1076

Delta R.T. -0.02 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

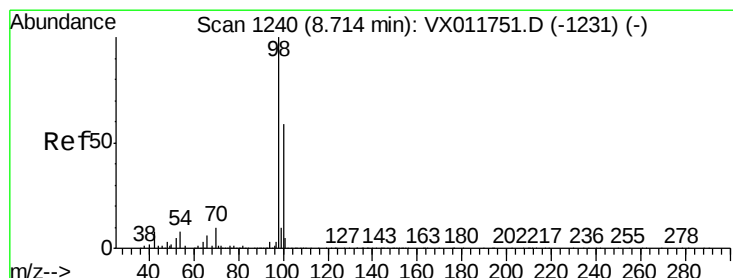
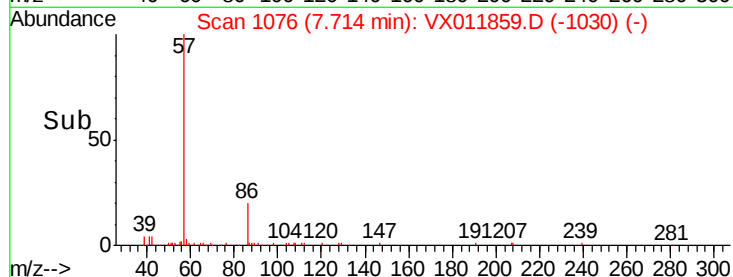
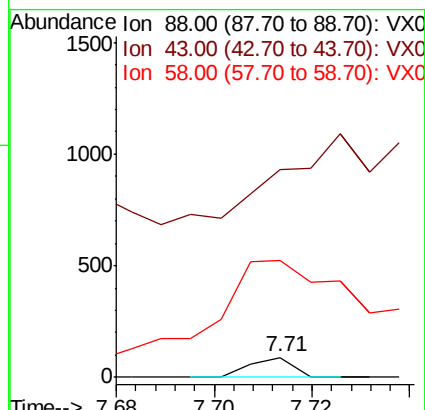
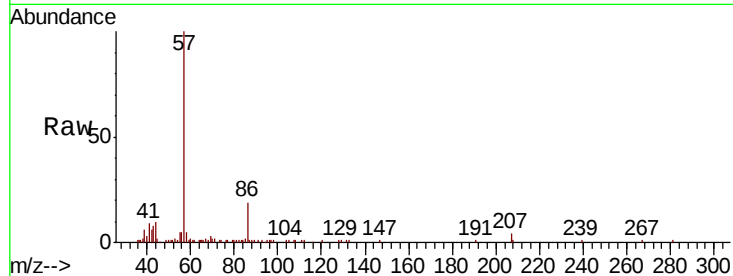
MSVOA_X

ClientSampled :

T9-12-13-A3(0)

Tgt Ion: 88 Resp: 53

Ion	Ratio	Lower	Upper
88	100		
43	0.0	24.6	37.0#
58	1369.8	51.4	77.2#



#50

Toluene-d8

Concen: 50.611 ug/l

RT: 8.71 min Scan# 1240

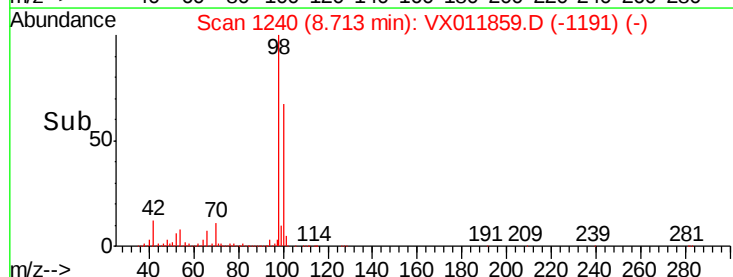
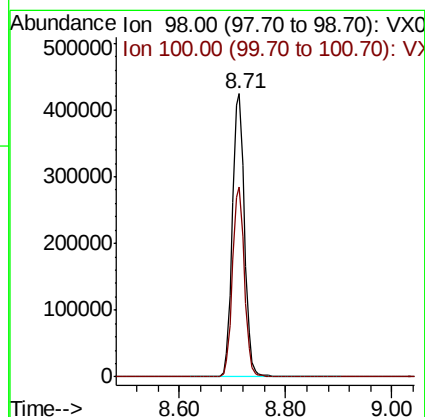
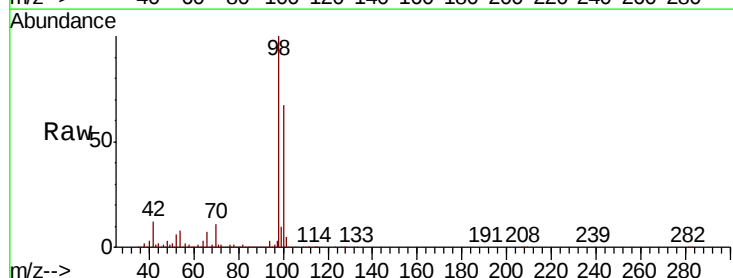
Delta R.T. -0.00 min

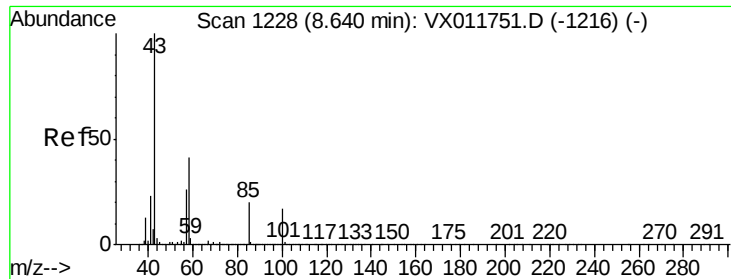
Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Tgt Ion: 98 Resp: 680736

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.1	78.1

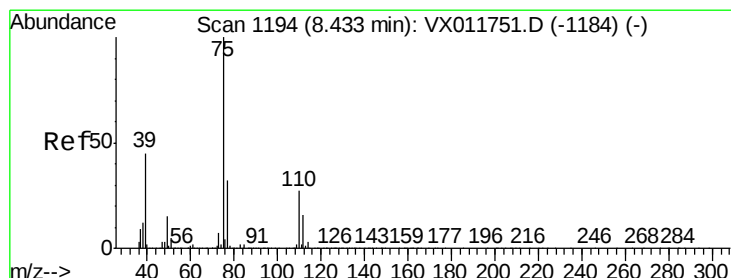
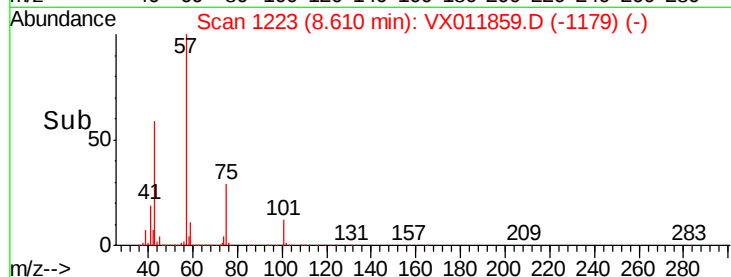
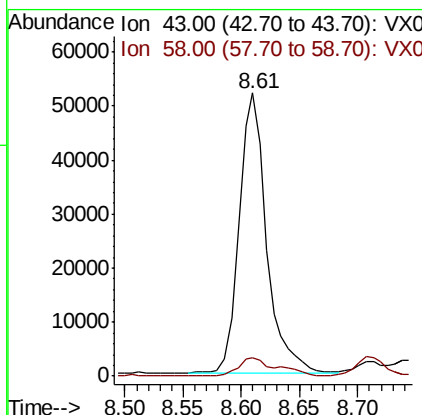
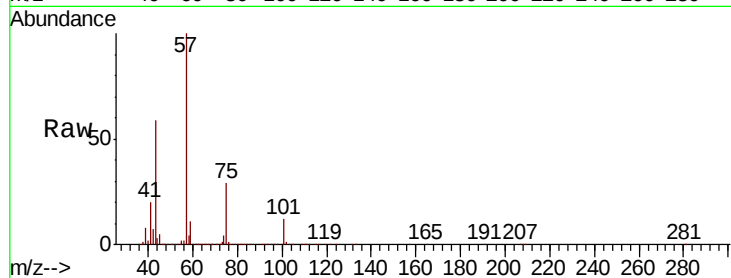




#51
 4-Methyl-2-Pentanone
 Concen: 16.260 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011859.D
 Acq: 27 Aug 2019 18:48

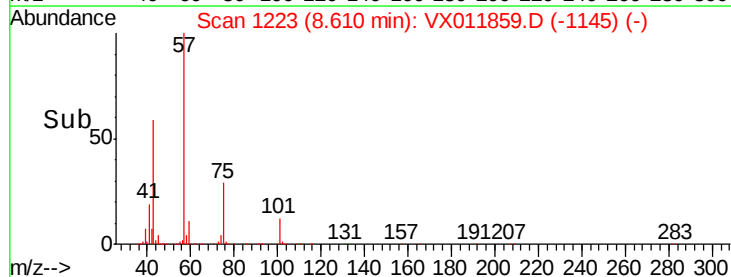
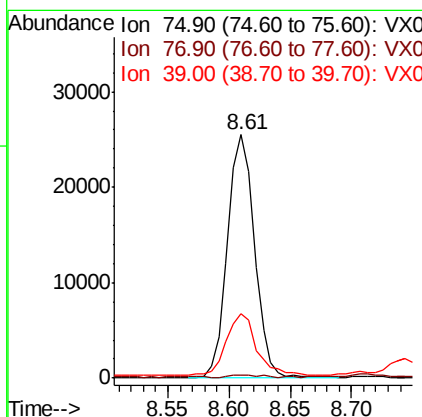
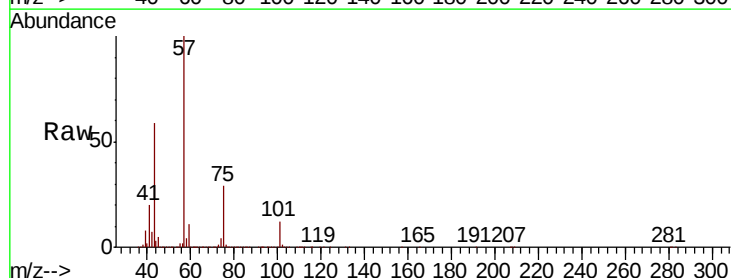
Instrument :
 MSVOA_X
 ClientSampleId :
 T9-12-13-A3(0)

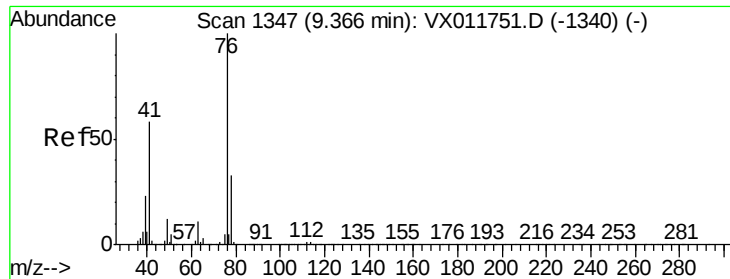
Tgt Ion: 43 Resp: 85819
 Ion Ratio Lower Upper
 43 100
 58 8.6 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 7.093 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011859.D
 Acq: 27 Aug 2019 18:48

Tgt Ion: 75 Resp: 39199
 Ion Ratio Lower Upper
 75 100
 77 0.4 25.4 38.2#
 39 25.0 36.2 54.4#





#57

1,3-Dichloropropane

Concen: 0.998 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

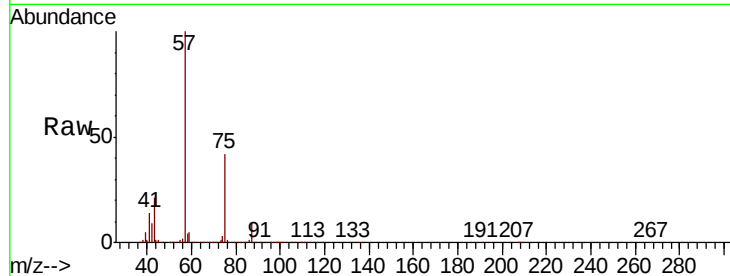
T9-12-13-A3(0)

Tgt Ion: 76 Resp: 6288

Ion Ratio Lower Upper

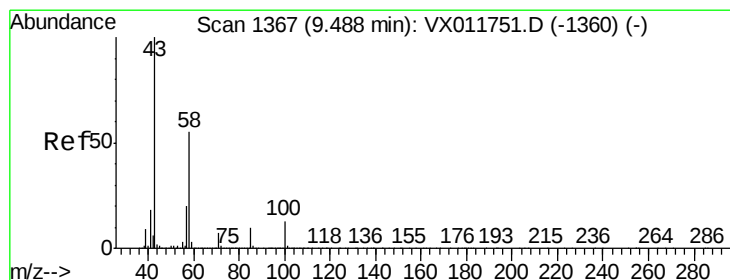
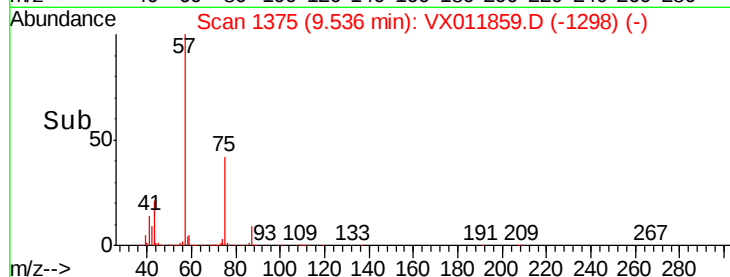
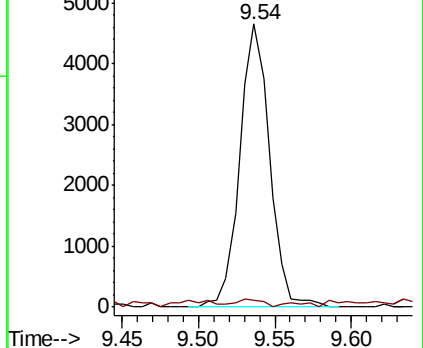
76 100

78 2.4 26.6 39.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 21.229 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011859.D

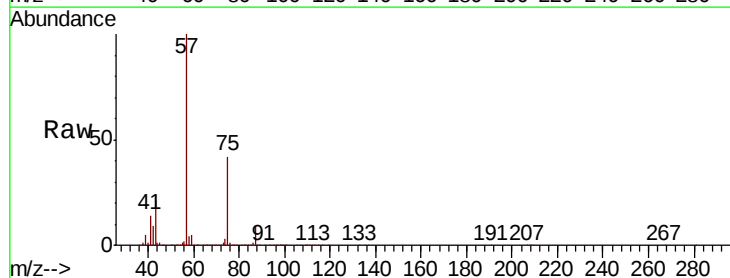
Acq: 27 Aug 2019 18:48

Tgt Ion: 43 Resp: 85997

Ion Ratio Lower Upper

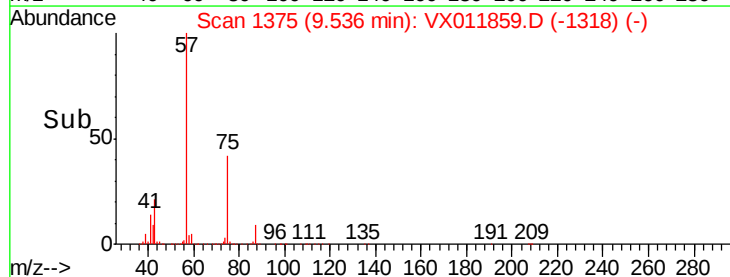
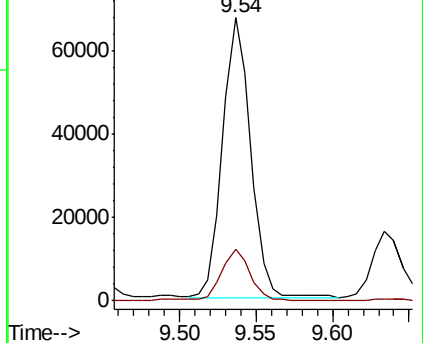
43 100

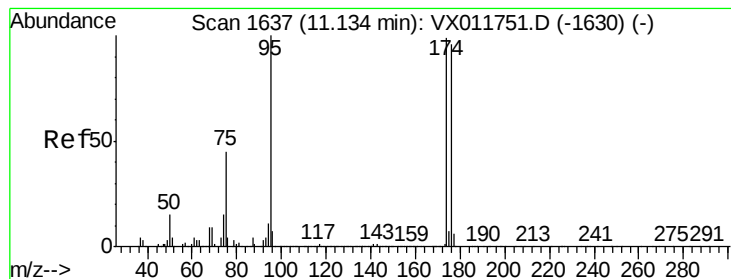
58 18.8 27.7 83.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 47.556 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-A3(0)

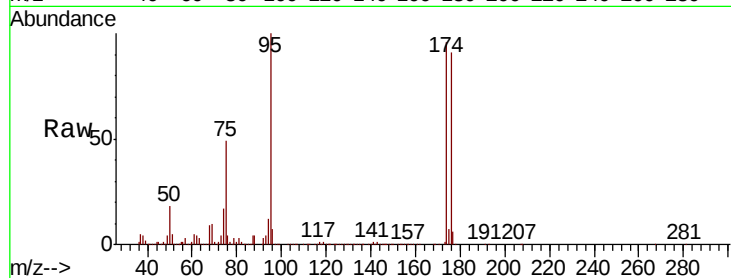
Tgt Ion: 95 Resp: 252830

Ion Ratio Lower Upper

95 100

174 94.5 0.0 197.4

176 92.8 0.0 194.4

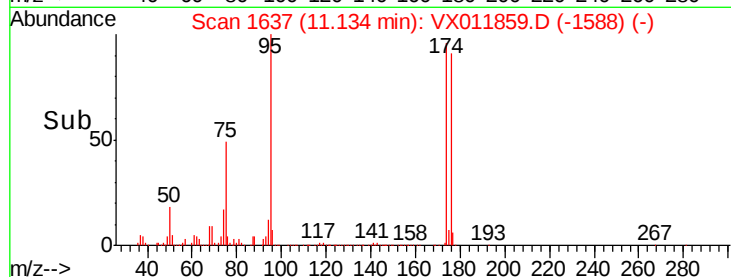


Abundance Ion 94.90 (94.60 to 95.60): VX011751.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX011751.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX011751.D (-1630) (-)

Time-->



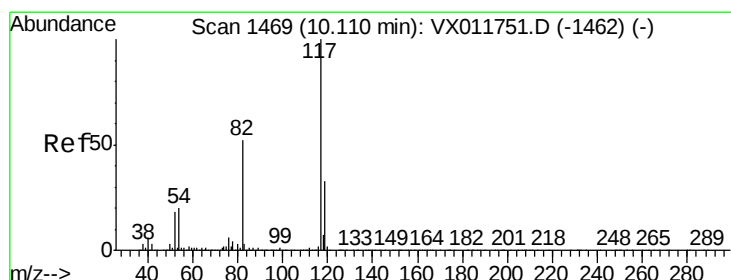
Abundance

Ion 94.90 (94.60 to 95.60): VX011859.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011859.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011859.D (-1588) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

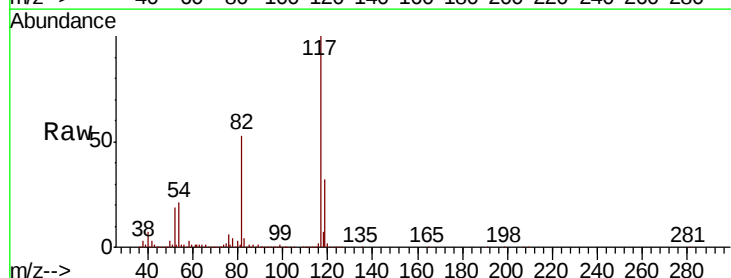
Tgt Ion: 117 Resp: 526175

Ion Ratio Lower Upper

117 100

82 53.4 41.7 62.5

119 31.8 26.2 39.2

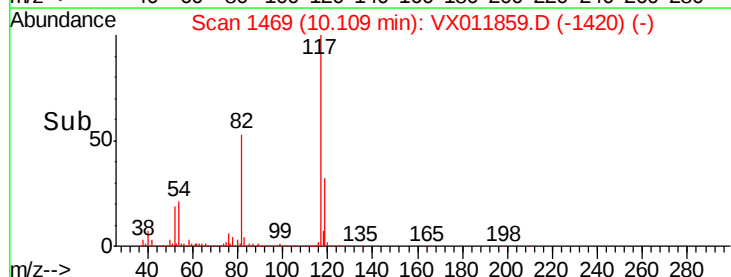


Abundance Ion 116.90 (116.60 to 117.60): VX011751.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX011751.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011751.D (-1462) (-)

Time-->



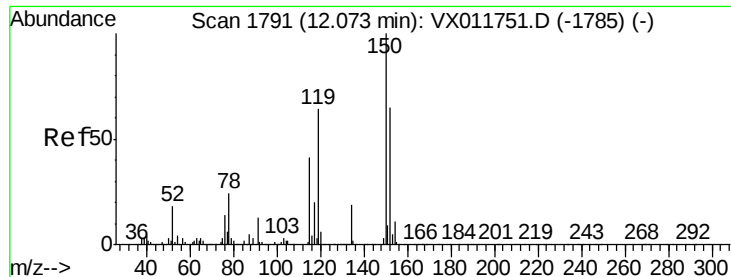
Abundance

Ion 116.90 (116.60 to 117.60): VX011859.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011859.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011859.D (-1420) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-A3(0)

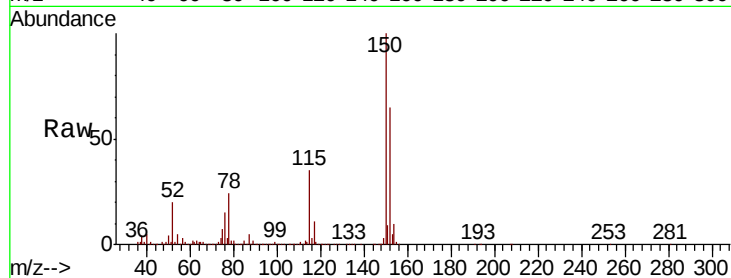
Tgt Ion:152 Resp: 265347

Ion Ratio Lower Upper

152 100

115 53.7 37.3 111.8

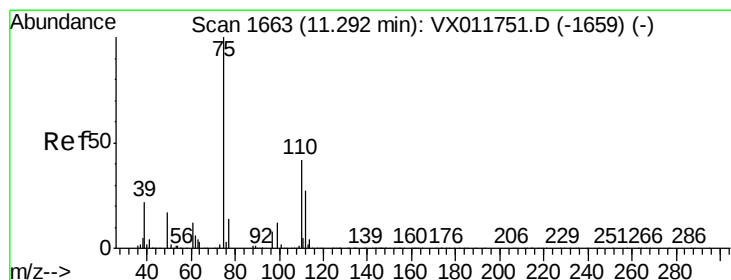
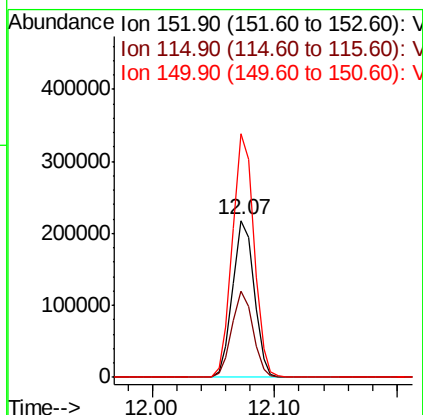
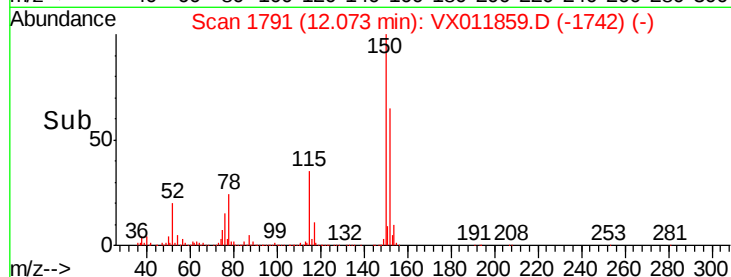
150 155.2 0.0 343.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.736 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011859.D

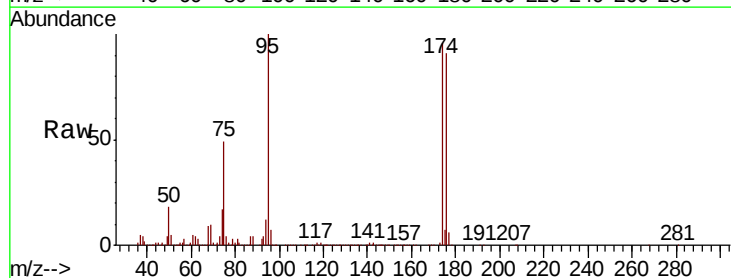
Acq: 27 Aug 2019 18:48

Tgt Ion: 75 Resp: 124484

Ion Ratio Lower Upper

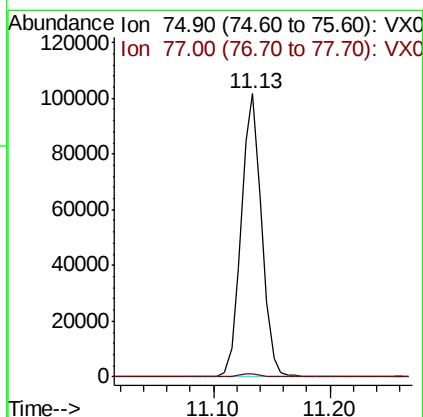
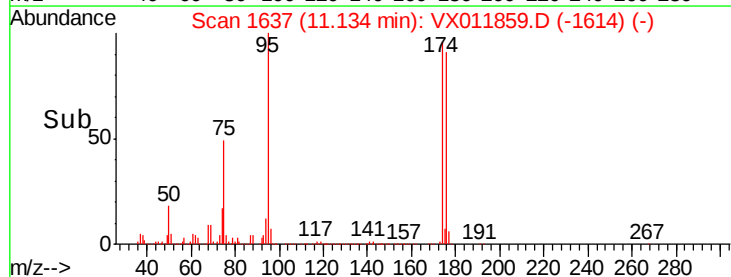
75 100

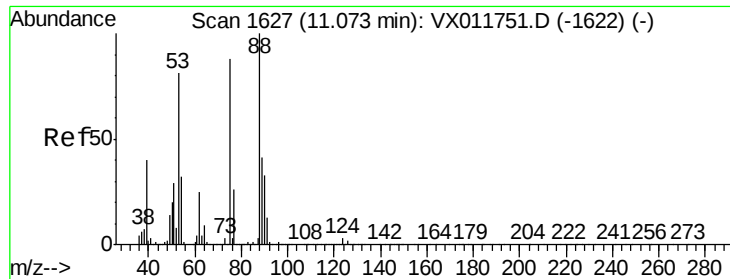
77 1.2 21.1 63.3#



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: 80.631 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011859.D

Acq: 27 Aug 2019 18:48

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-A3(0)

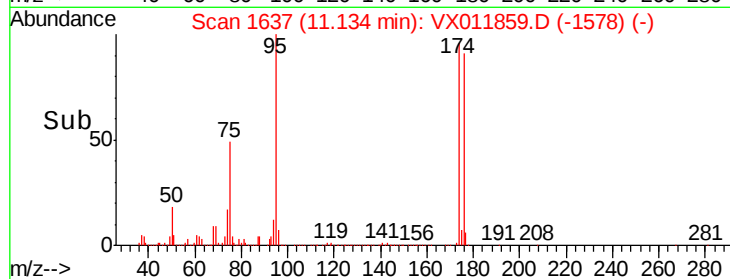
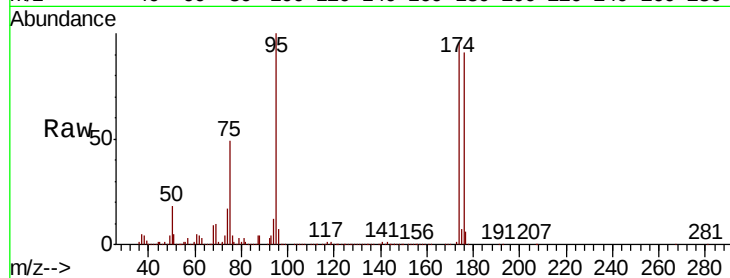
Tgt Ion: 75 Resp: 124484

Ion Ratio Lower Upper

75 100

53 0.1 77.1 115.7#

89 0.1 38.5 57.7#



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

