

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082419\
 Data File : VX011825.D
 Acq On : 24 Aug 2019 17:49
 Operator : JC/SP
 Sample : K4474-25
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-F3-(0)

Quant Time: Aug 26 04:11:05 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	5.66	168	472819	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	639731	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	589386	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	318607	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	212330	44.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.40%	
35) Dibromofluoromethane	5.49	113	190015	45.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.86%	
50) Toluene-d8	8.71	98	730062	50.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.20%	
62) 4-Bromofluorobenzene	11.13	95	266806	46.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.56%	

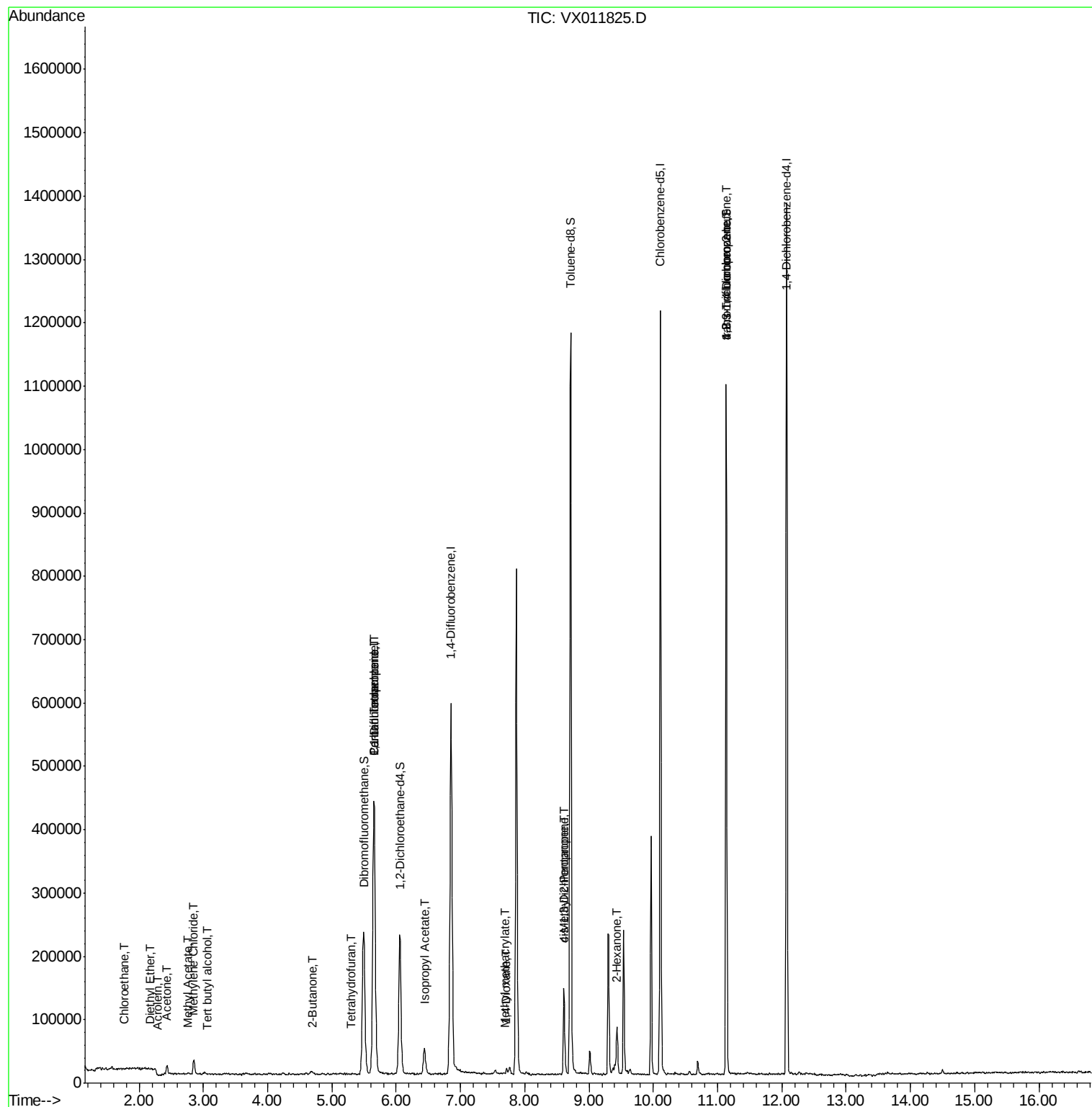
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.76	64	702	0.310	ug/l	93
8) Diethyl Ether	2.18	74	470	0.224	ug/l	69
11) Tert butyl alcohol	3.06	59	379	0.404	ug/l #	1
13) Acrolein	2.28	56	253	0.697	ug/l	93
16) Acetone	2.43	43	14813	7.169	ug/l	100
18) Methyl Acetate	2.76	43	3202	0.571	ug/l	95
20) Methylene Chloride	2.85	84	11386	2.695	ug/l	95
25) 2-Butanone	4.70	43	2221	0.749	ug/l #	28
29) Tetrahydrofuran	5.29	42	474	0.249	ug/l	93
36) 1,1-Dichloropropene	5.65	75	25552	5.093	ug/l #	52
38) Carbon Tetrachloride	5.65	117	39559	6.958	ug/l #	17
43) Isopropyl Acetate	6.44	43	58443	6.802	ug/l	98
48) Methyl methacrylate	7.68	41	2841	0.664	ug/l #	16
49) 1,4-Dioxane	7.72	88	113	0.954	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	45513	8.039	ug/l #	55
54) cis-1,3-Dichloropropene	8.61	75	22268	3.756	ug/l #	60
59) 2-Hexanone	9.43	43	54915	12.637	ug/l #	24
76) 1,2,3-Trichloropropane	11.13	75	121289	21.695	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	121289	65.429	ug/l #	11

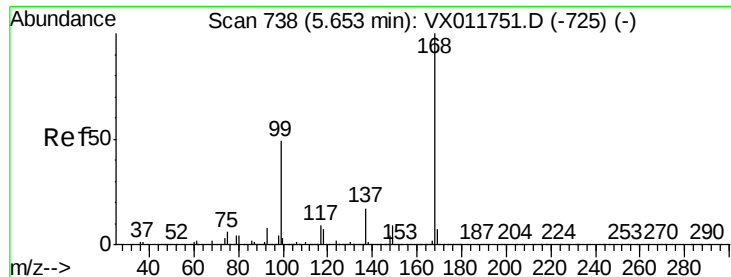
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX011825.D

Acq: 24 Aug 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

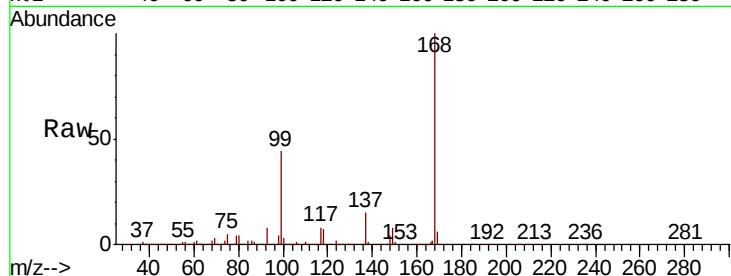
T1-2-F3-(0)

Tgt Ion:168 Resp: 472819

Ion Ratio Lower Upper

168 100

99 44.1 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

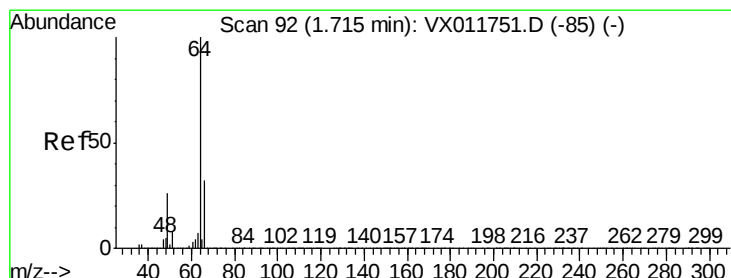
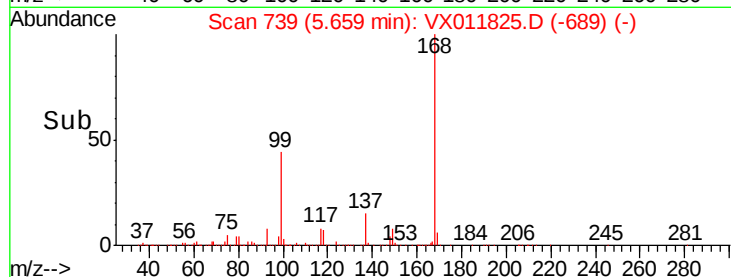
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#6

Chloroethane

Concen: 0.310 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX011825.D

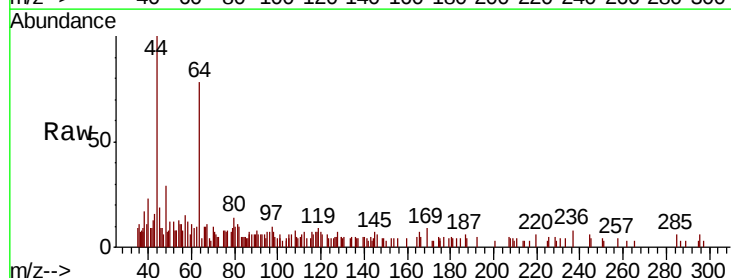
Acq: 24 Aug 2019 17:49

Tgt Ion: 64 Resp: 702

Ion Ratio Lower Upper

64 100

66 35.1 24.9 37.3



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1500

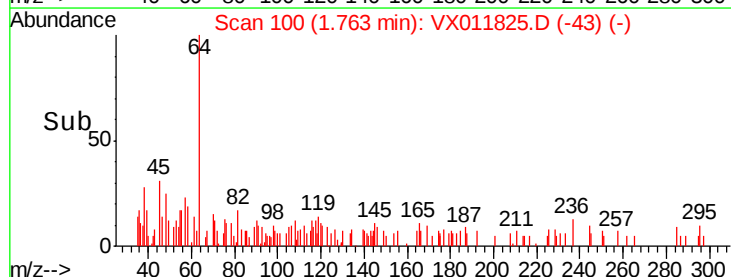
1000

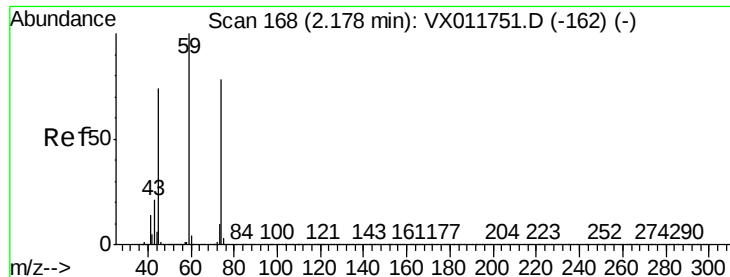
500

0

1.74 1.76 1.78 1.80

Time-->





#8

Diethyl Ether

Concen: 0.224 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

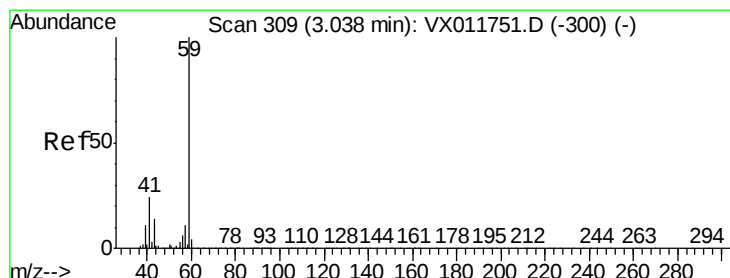
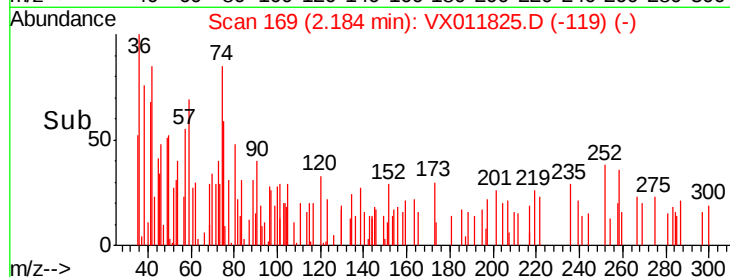
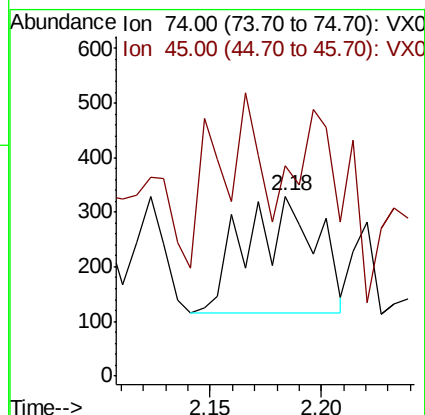
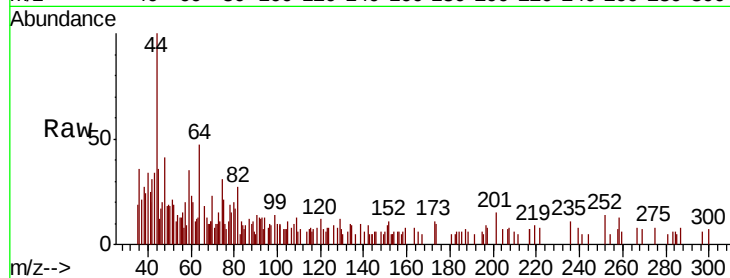
T1-2-F3-(0)

Tgt Ion: 74 Resp: 470

Ion Ratio Lower Upper

74 100

45 123.4 46.7 140.0



#11

Tert butyl alcohol

Concen: 0.404 ug/l

RT: 3.06 min Scan# 313

Delta R.T. 0.02 min

Lab File: VX011825.D

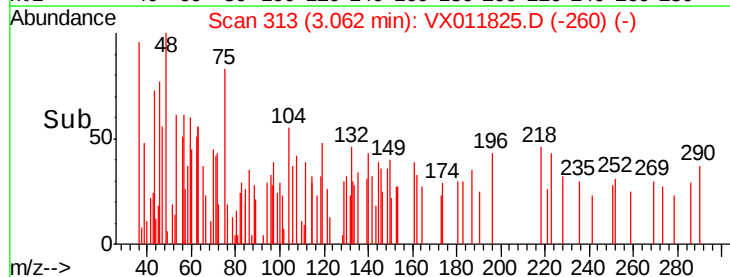
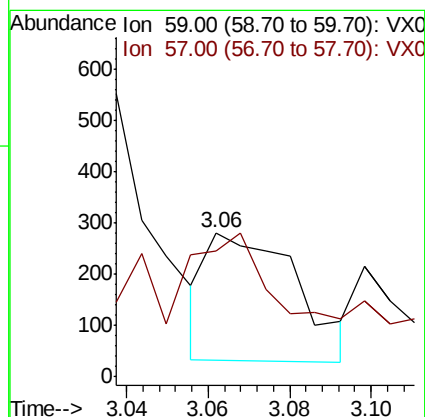
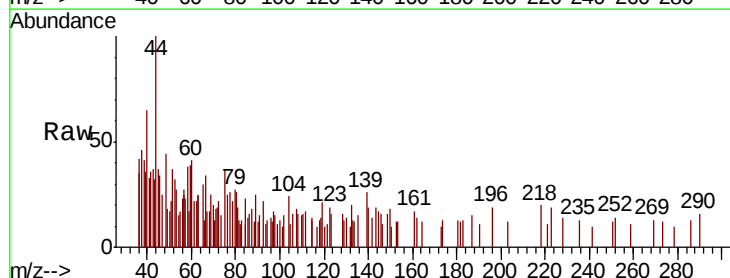
Acq: 24 Aug 2019 17:49

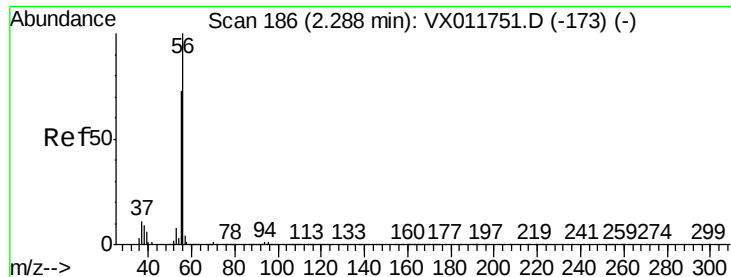
Tgt Ion: 59 Resp: 379

Ion Ratio Lower Upper

59 100

57 56.7 8.4 12.6#





#13

Acrolein

Concen: 0.697 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

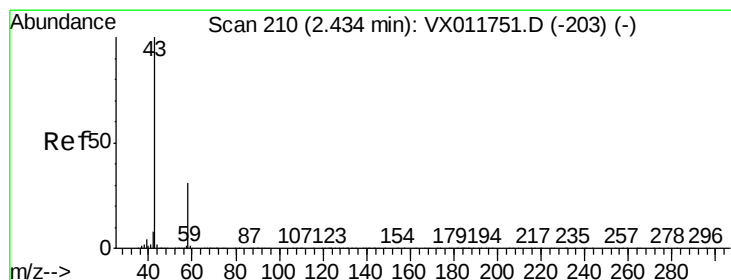
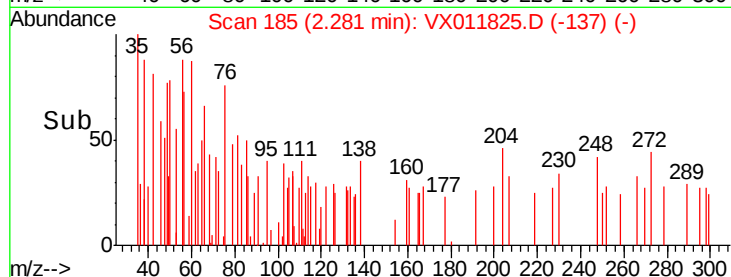
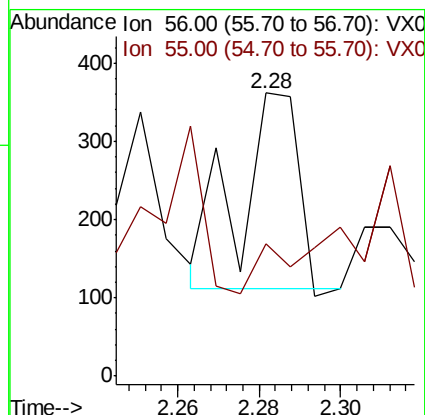
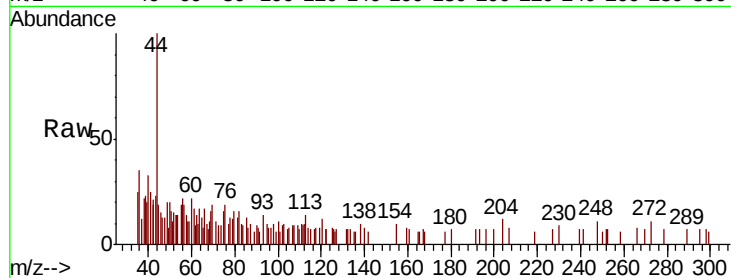
T1-2-F3-(0)

Tgt Ion: 56 Resp: 253

Ion Ratio Lower Upper

56 100

55 74.3 54.8 82.2



#16

Acetone

Concen: 7.169 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011825.D

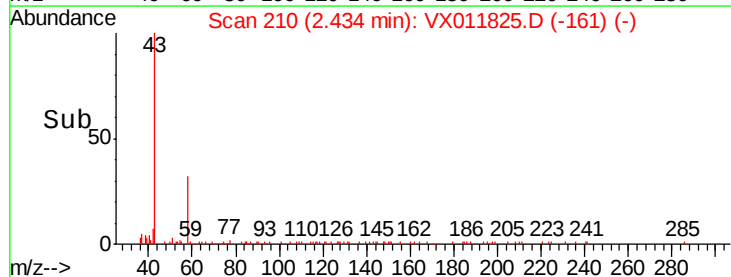
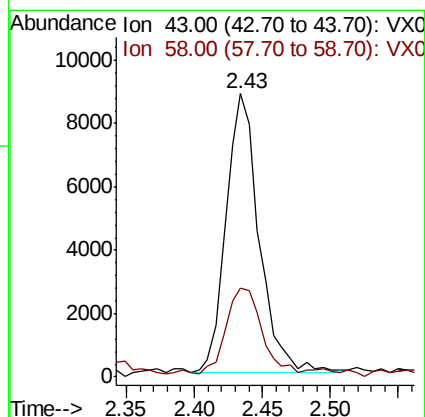
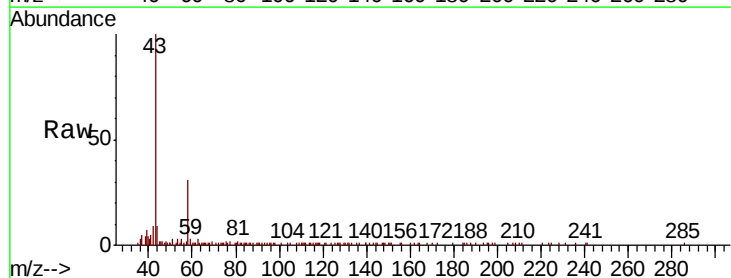
Acq: 24 Aug 2019 17:49

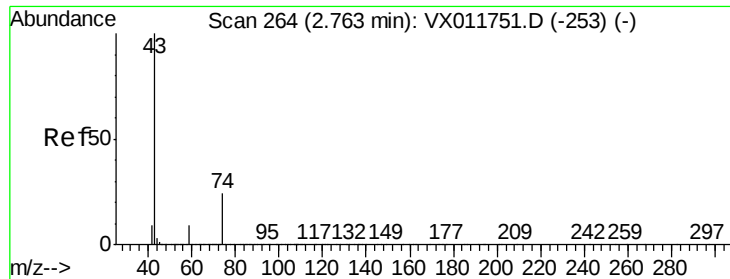
Tgt Ion: 43 Resp: 14813

Ion Ratio Lower Upper

43 100

58 30.3 24.4 36.6

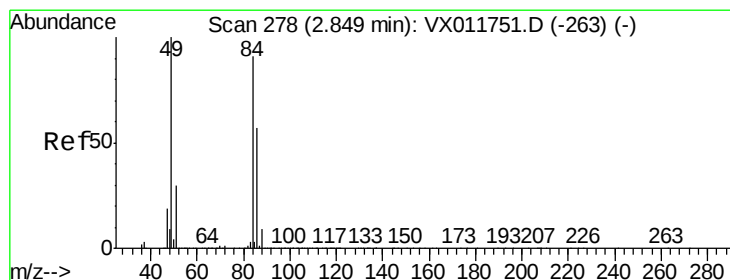
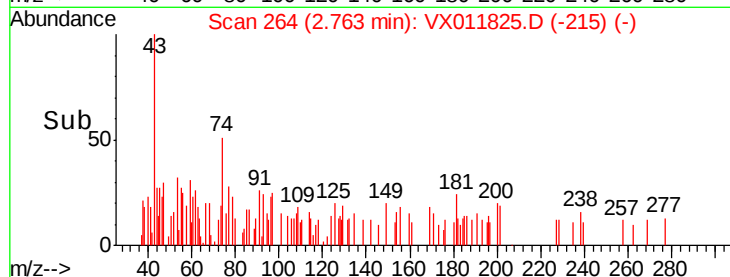
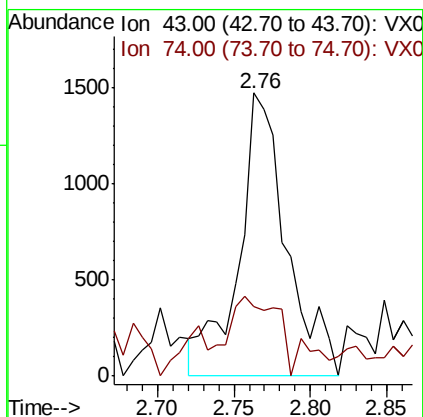
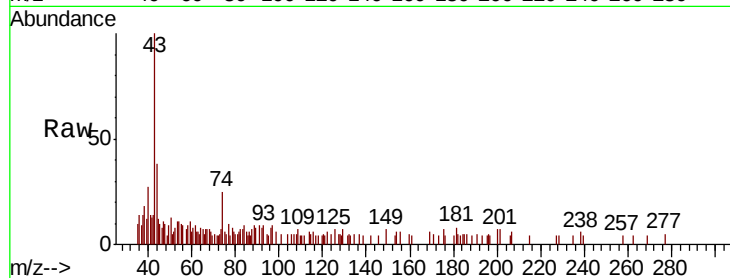




#18
Methyl Acetate
Concen: 0.571 ug/l
RT: 2.76 min Scan# 264
Delta R.T. -0.00 min
Lab File: VX011825.D
Acq: 24 Aug 2019 17:49

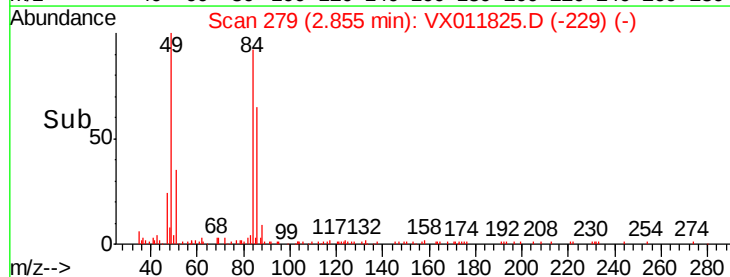
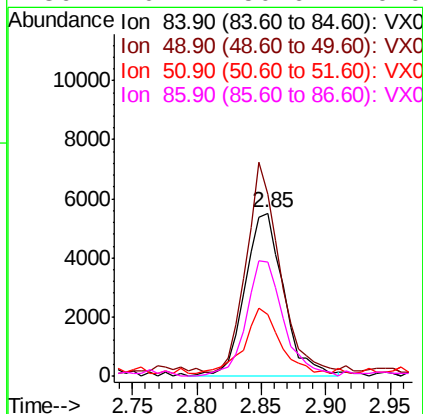
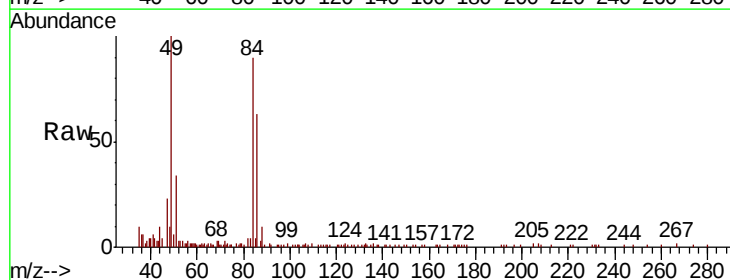
Instrument :
MSVOA_X
ClientSampleId :
T1-2-F3-(0)

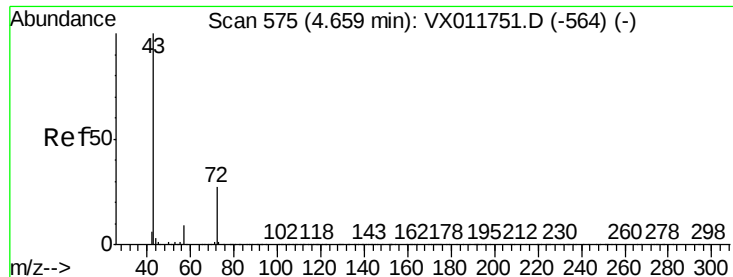
Tgt Ion: 43 Resp: 3202
Ion Ratio Lower Upper
43 100
74 26.9 19.5 29.3



#20
Methylene Chloride
Concen: 2.695 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011825.D
Acq: 24 Aug 2019 17:49

Tgt Ion: 84 Resp: 11386
Ion Ratio Lower Upper
84 100
49 108.3 88.3 132.5
51 36.1 26.2 39.2
86 70.1 50.6 76.0





#25

2-Butanone

Concen: 0.749 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.04 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

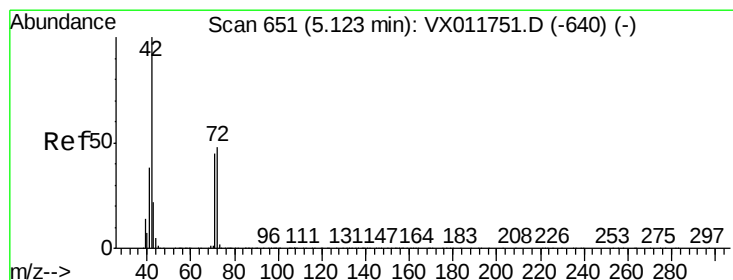
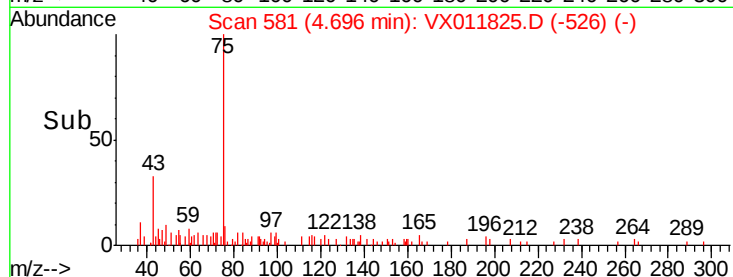
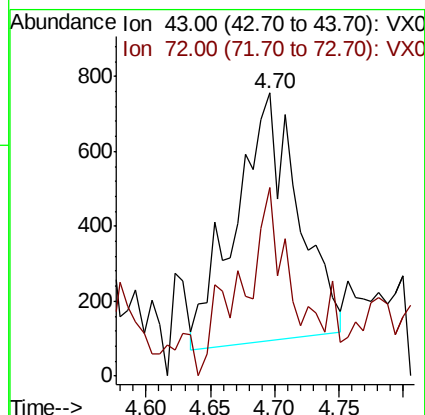
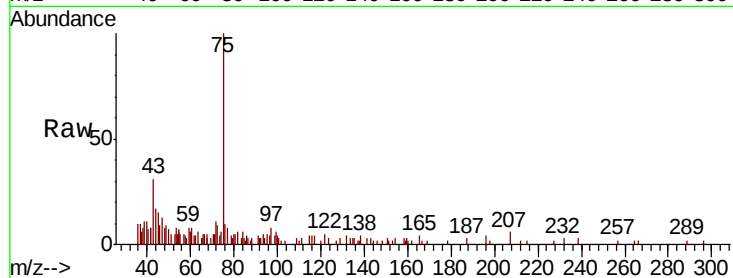
T1-2-F3-(0)

Tgt Ion: 43 Resp: 2221

Ion Ratio Lower Upper

43 100

72 64.7 21.8 32.6#



#29

Tetrahydrofuran

Concen: 0.249 ug/l

RT: 5.29 min Scan# 679

Delta R.T. 0.17 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

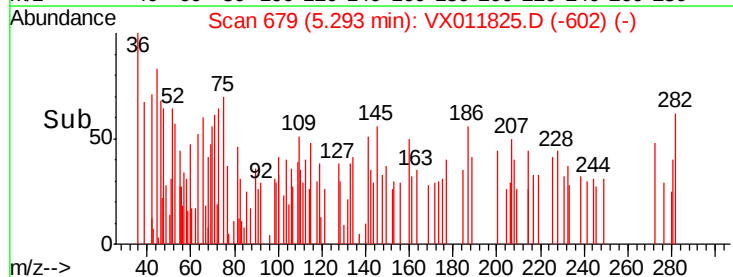
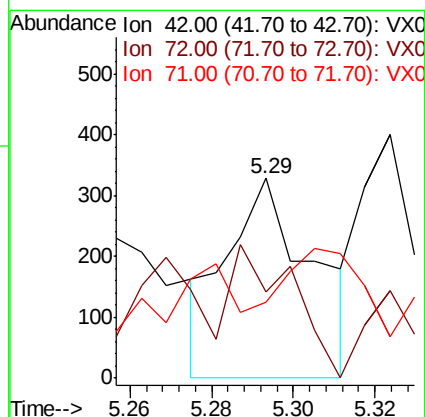
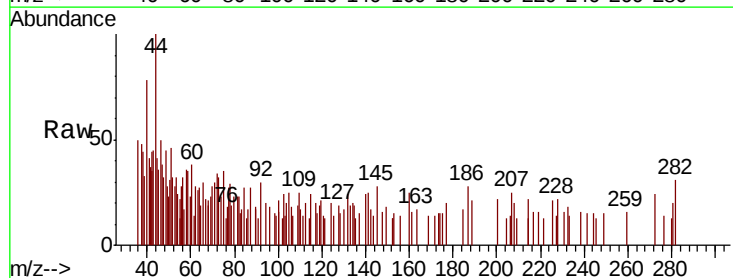
Tgt Ion: 42 Resp: 474

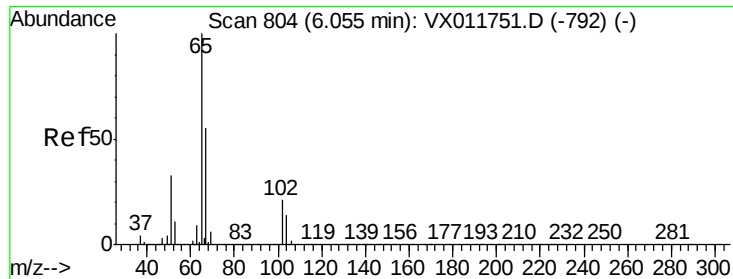
Ion Ratio Lower Upper

42 100

72 48.1 37.6 56.4

71 35.4 34.6 51.8





#33

1,2-Dichloroethane-d4

Concen: 44.703 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

Instrument :

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ClientSampleId :

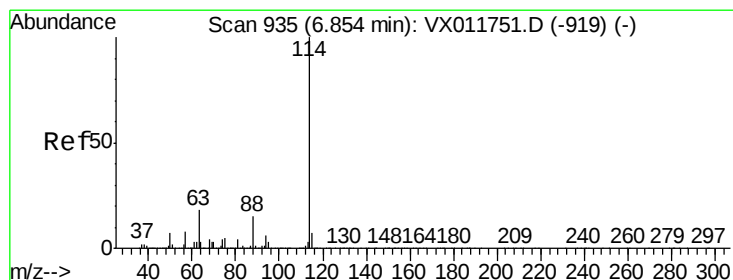
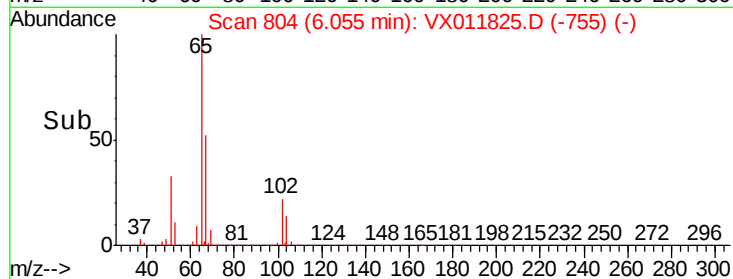
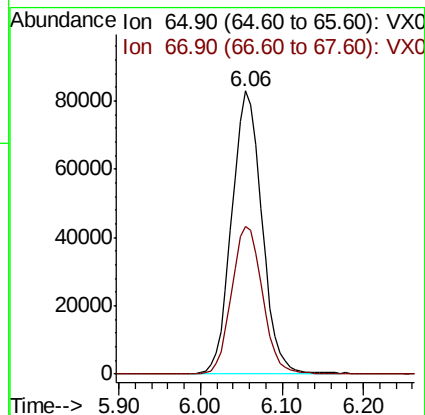
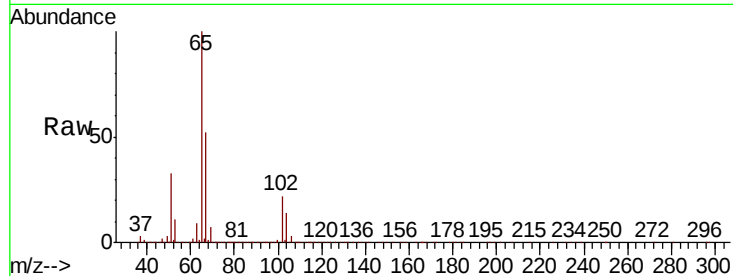
T1-2-F3-(0)

Tgt Ion: 65 Resp: 212330

Ion Ratio Lower Upper

65 100

67 53.3 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: VX011825.D

Acq: 24 Aug 2019 17:49

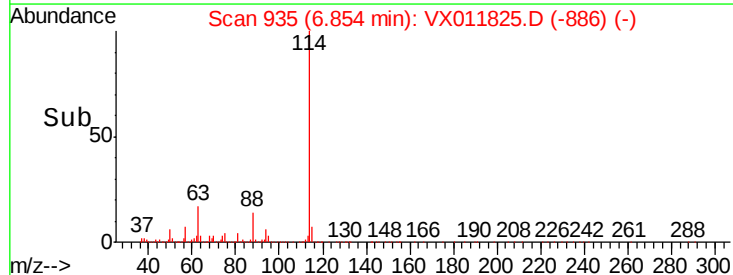
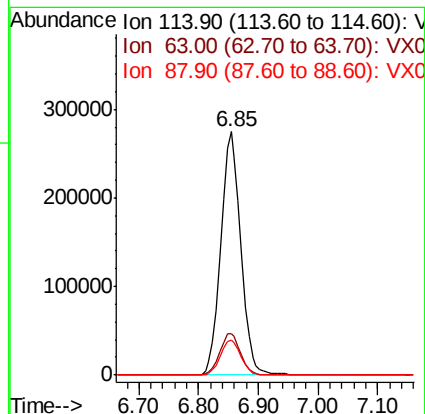
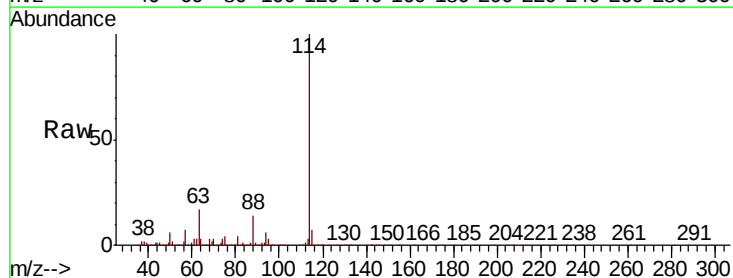
Tgt Ion: 114 Resp: 639731

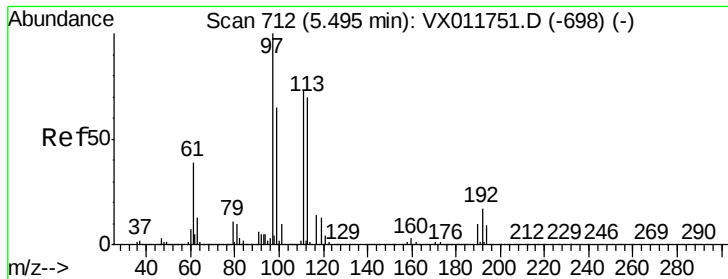
Ion Ratio Lower Upper

114 100

63 16.8 0.0 36.8

88 14.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 45.933 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

T1-2-F3-(0)

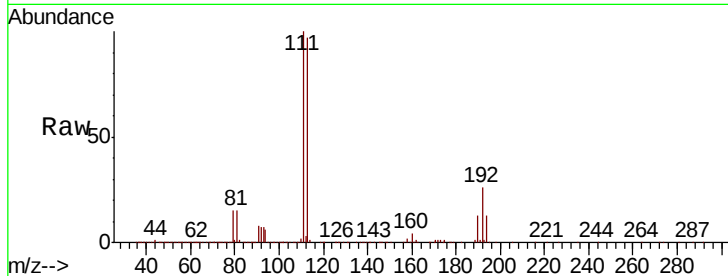
Tgt Ion:113 Resp: 190015

Ion Ratio Lower Upper

113 100

111 102.1 81.0 121.4

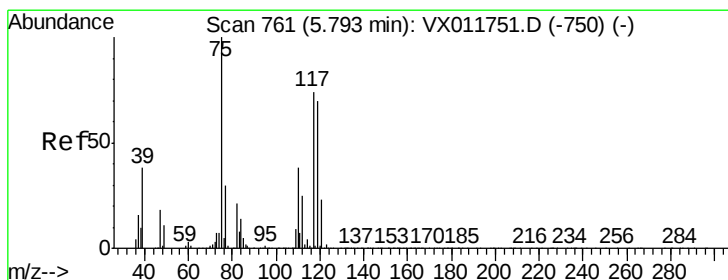
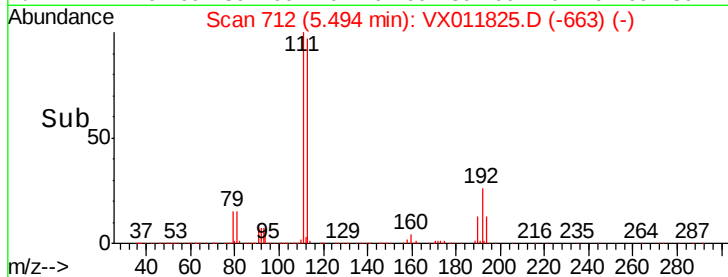
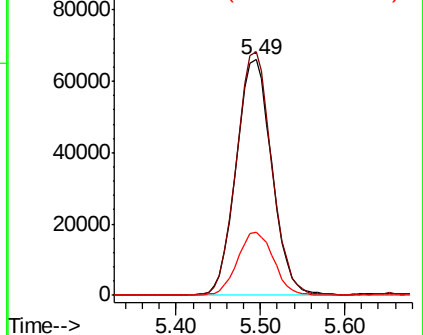
192 27.0 19.9 29.9



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: 5.093 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

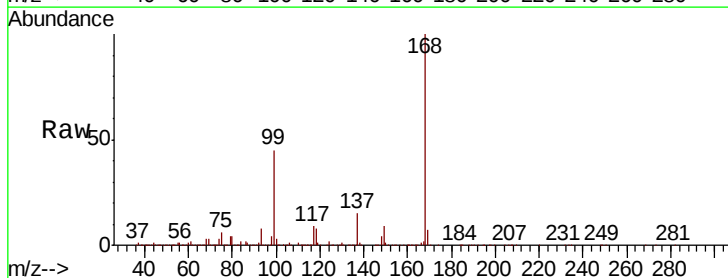
Tgt Ion: 75 Resp: 25552

Ion Ratio Lower Upper

75 100

110 12.1 19.0 57.0#

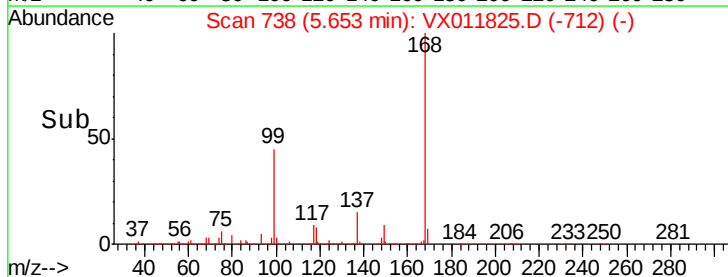
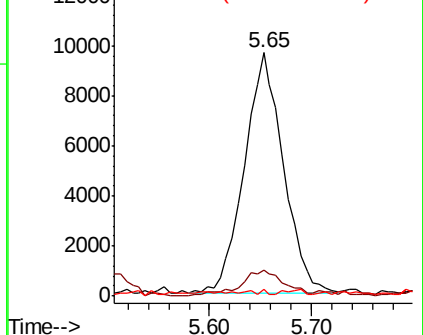
77 0.5 24.6 36.8#

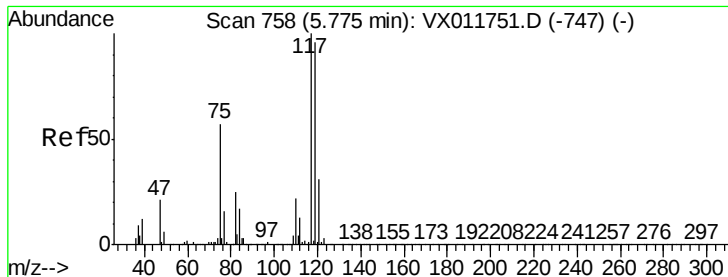


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

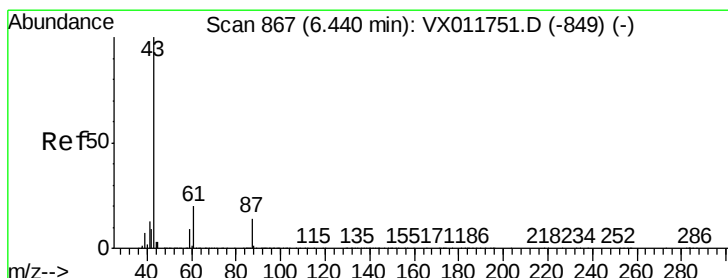
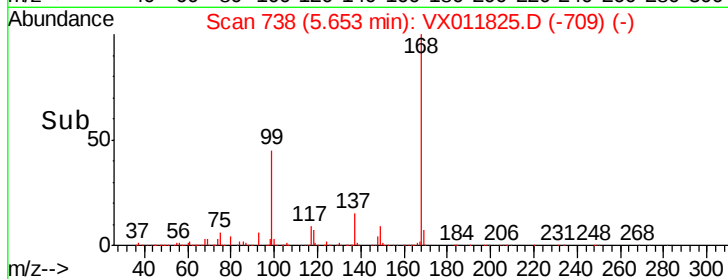
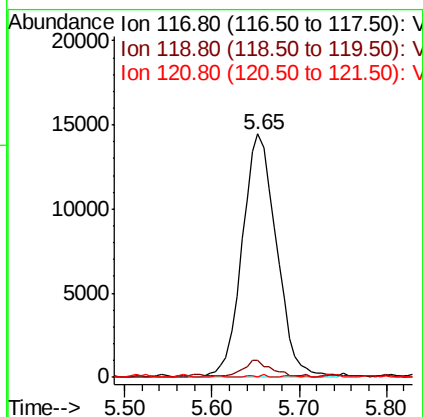
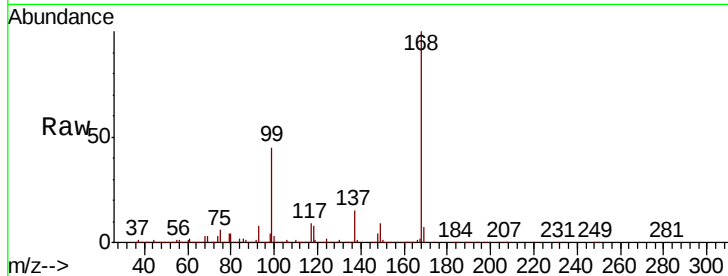




#38
Carbon Tetrachloride
Concen: 6.958 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.12 min
Lab File: VX011825.D
Acq: 24 Aug 2019 17:49

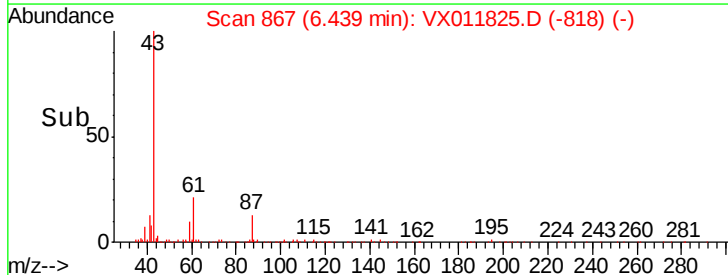
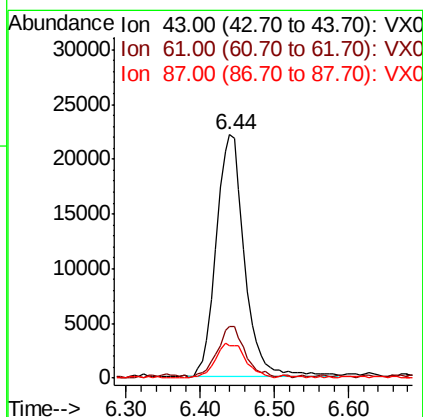
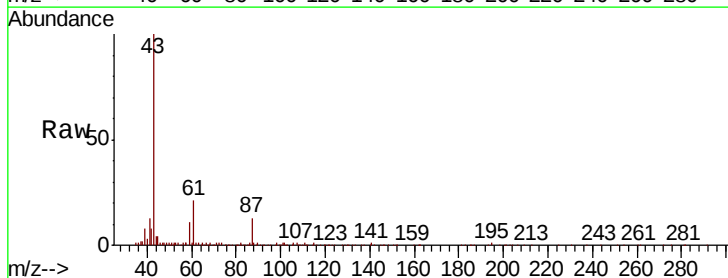
Instrument :
MSVOA_X
ClientSampleId :
T1-2-F3-(0)

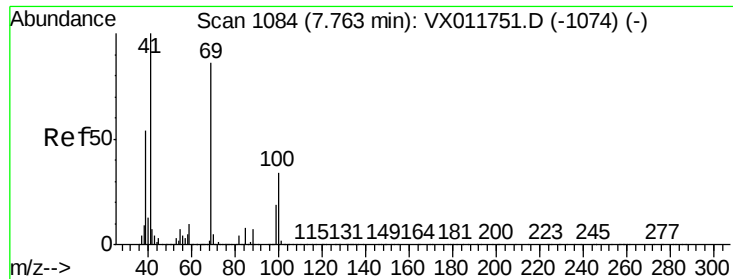
Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	76.6	114.8#
121	0.0	25.2	37.8#



#43
Isopropyl Acetate
Concen: 6.802 ug/l
RT: 6.44 min Scan# 867
Delta R.T. -0.00 min
Lab File: VX011825.D
Acq: 24 Aug 2019 17:49

Tgt Ion	Ratio	Lower	Upper
43	100		
61	21.4	16.2	24.2
87	15.4	11.6	17.4

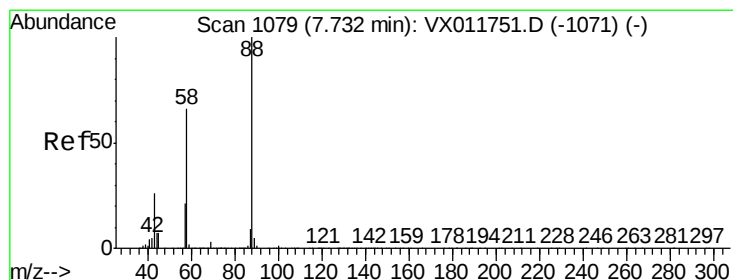
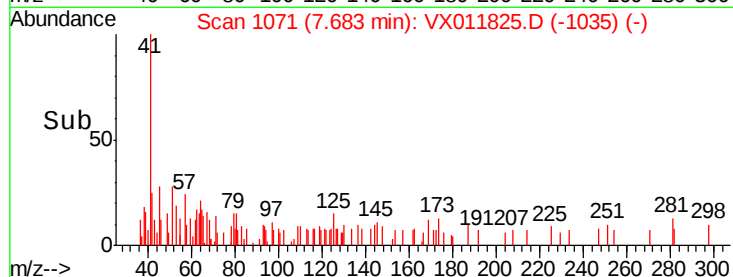
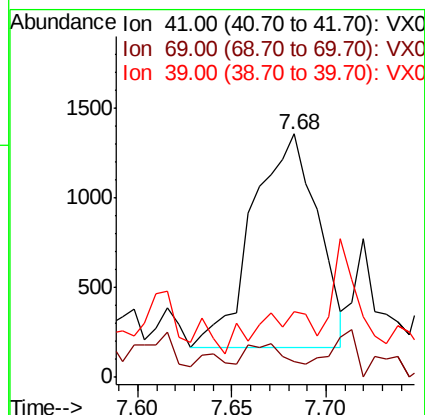
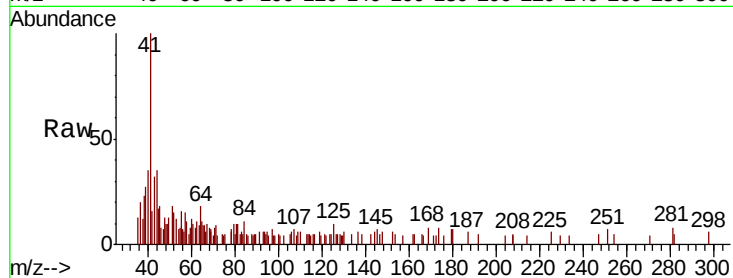




#48
Methyl methacrylate
Concen: 0.664 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.08 min
Lab File: VX011825.D
Acq: 24 Aug 2019 17:49

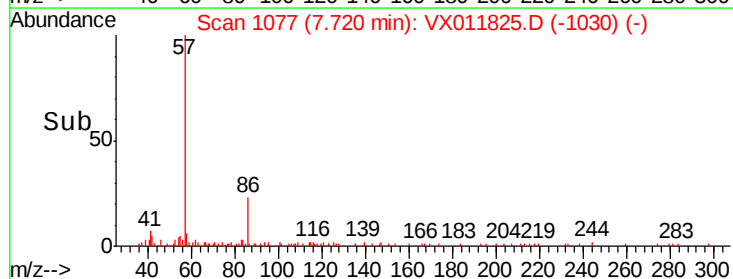
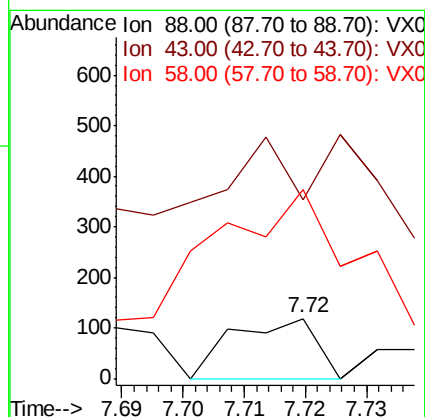
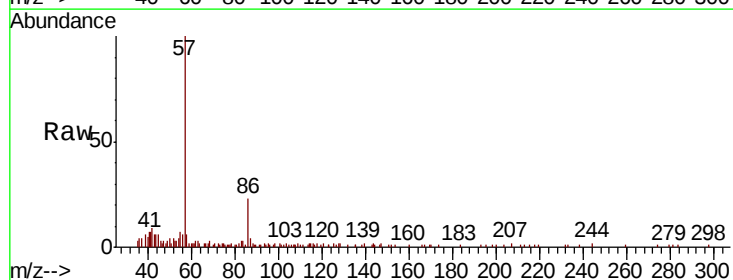
Instrument :
MSVOA_X
ClientSampleId :
T1-2-F3-(0)

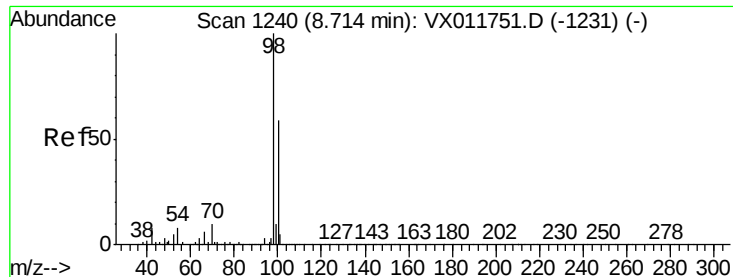
Tgt Ion: 41 Resp: 2841
Ion Ratio Lower Upper
41 100
69 4.7 69.4 104.2#
39 0.0 43.6 65.4#



#49
1,4-Dioxane
Concen: 0.954 ug/l
RT: 7.72 min Scan# 1077
Delta R.T. -0.01 min
Lab File: VX011825.D
Acq: 24 Aug 2019 17:49

Tgt Ion: 88 Resp: 113
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 347.8 51.4 77.2#





#50

Toluene-d8

Concen: 50.597 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

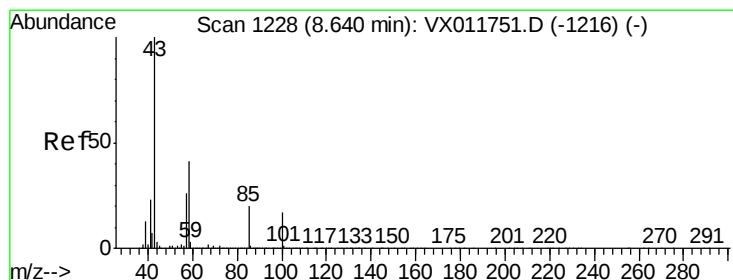
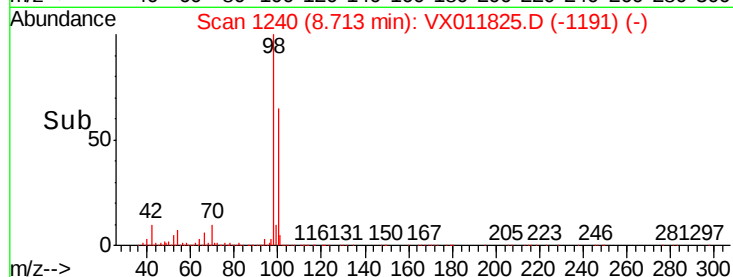
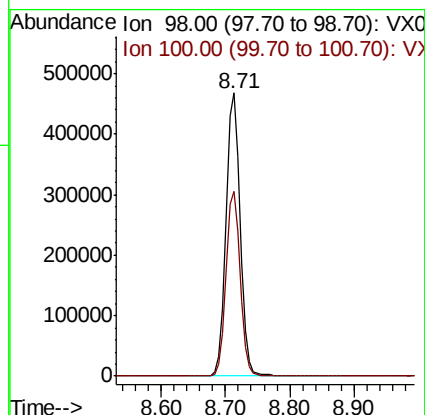
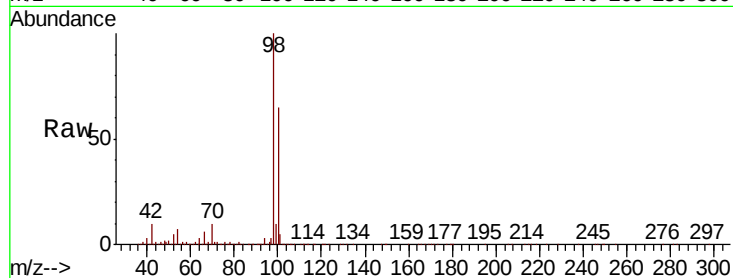
T1-2-F3-(0)

Tgt Ion: 98 Resp: 730062

Ion Ratio Lower Upper

98 100

100 65.7 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 8.039 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011825.D

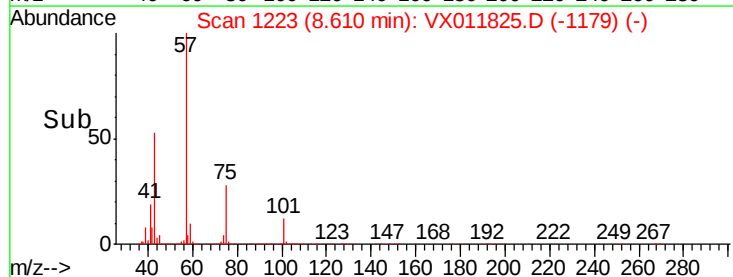
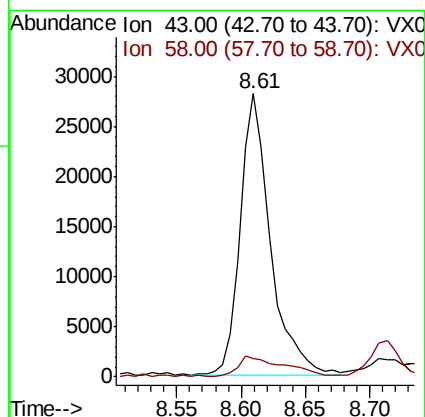
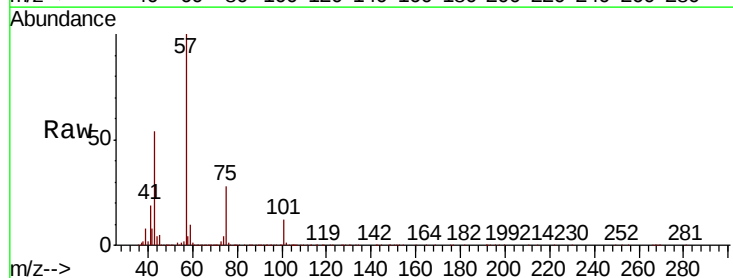
Acq: 24 Aug 2019 17:49

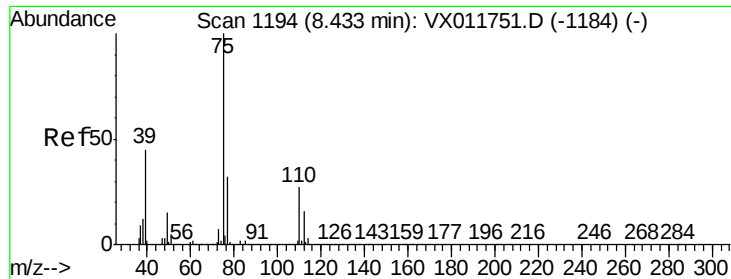
Tgt Ion: 43 Resp: 45513

Ion Ratio Lower Upper

43 100

58 11.7 31.8 47.6#

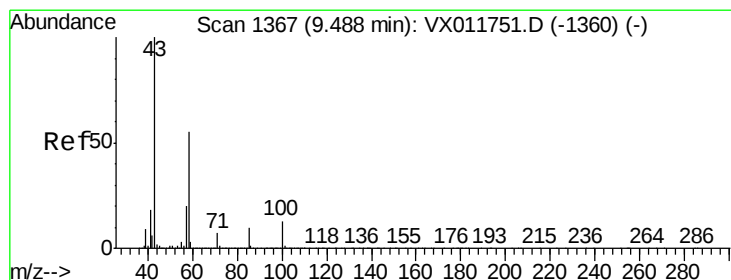
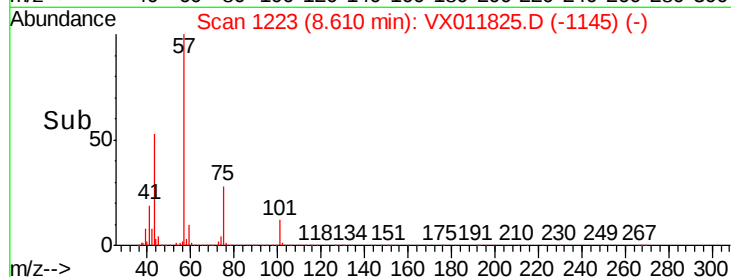
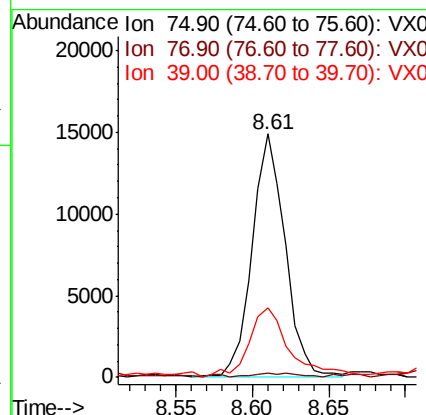
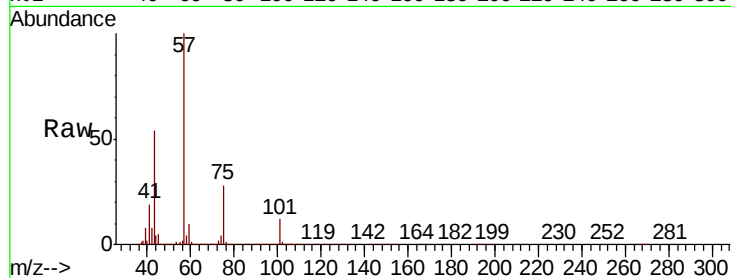




#54
 cis-1,3-Dichloropropene
 Concen: 3.756 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. 0.18 min
 Lab File: VX011825.D
 Acq: 24 Aug 2019 17:49

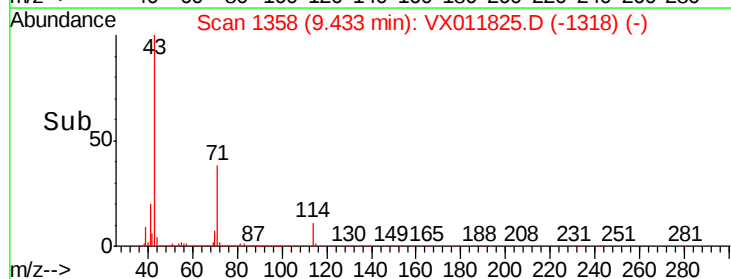
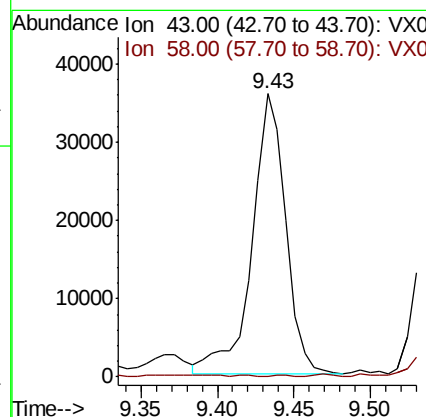
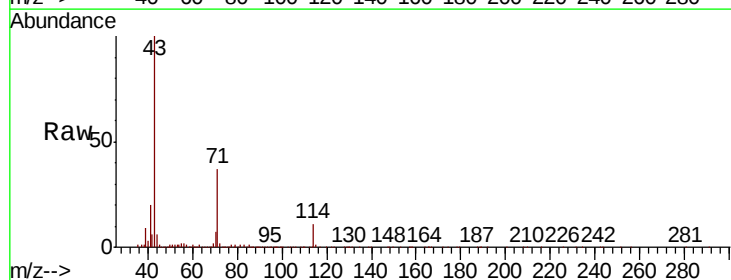
Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-F3-(0)

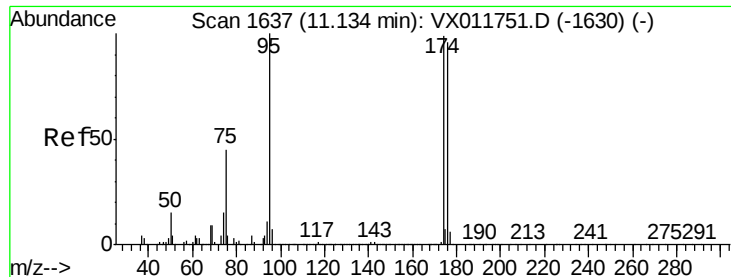
Tgt Ion: 75 Resp: 22268
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.4 38.2#
 39 26.7 36.2 54.4#



#59
 2-Hexanone
 Concen: 12.637 ug/l
 RT: 9.43 min Scan# 1358
 Delta R.T. -0.06 min
 Lab File: VX011825.D
 Acq: 24 Aug 2019 17:49

Tgt Ion: 43 Resp: 54915
 Ion Ratio Lower Upper
 43 100
 58 0.5 27.7 83.1#





#62

4-Bromofluorobenzene

Concen: 46.781 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

T1-2-F3-(0)

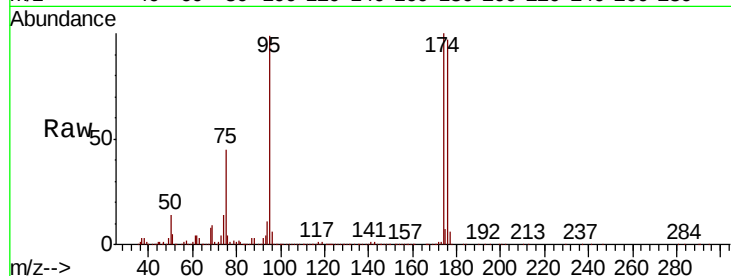
Tgt Ion: 95 Resp: 266806

Ion Ratio Lower Upper

95 100

174 102.9 0.0 197.4

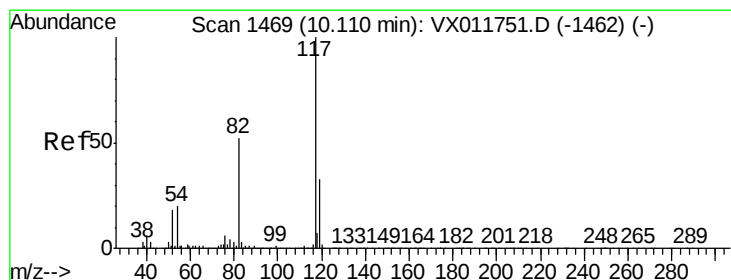
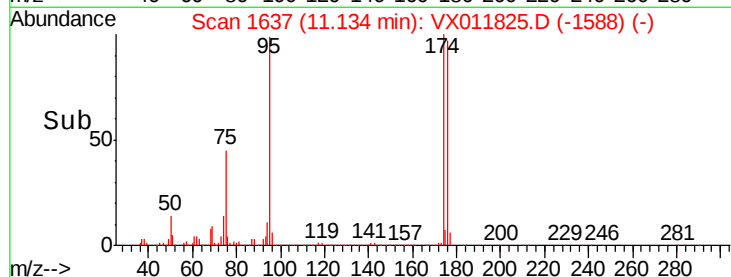
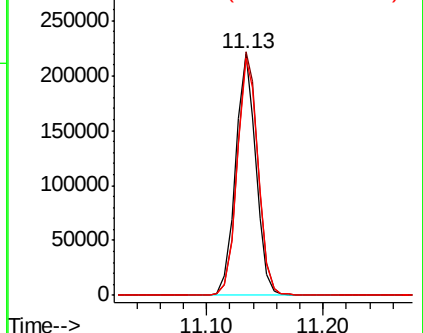
176 101.3 0.0 194.4



Abundance Ion 94.90 (94.60 to 95.60): VX011825.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011825.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011825.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

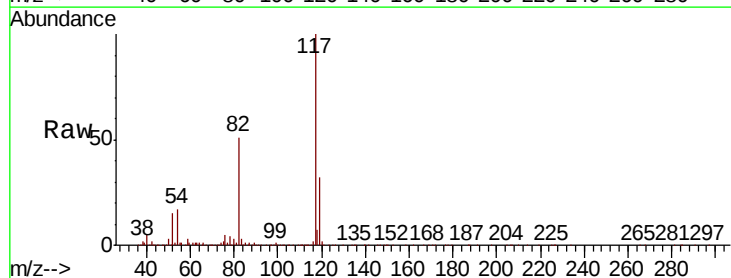
Tgt Ion: 117 Resp: 589386

Ion Ratio Lower Upper

117 100

82 51.0 41.7 62.5

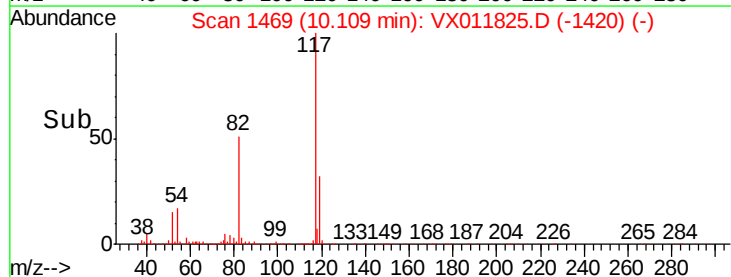
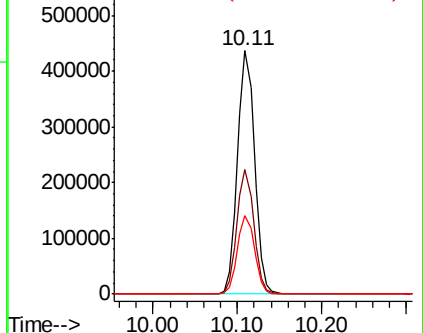
119 32.3 26.2 39.2

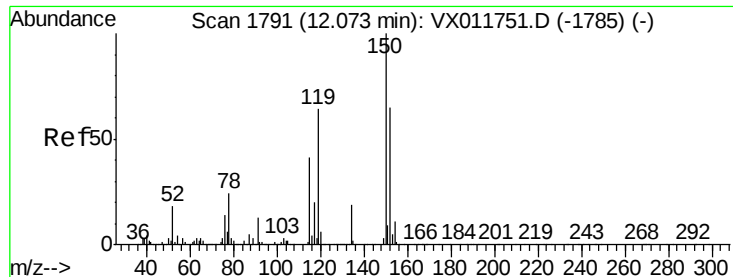


Abundance Ion 116.90 (116.60 to 117.60): VX011825.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011825.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011825.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX011825.D

Acq: 24 Aug 2019 17:49

Instrument :

MSVOA_X

ClientSampleId :

T1-2-F3-(0)

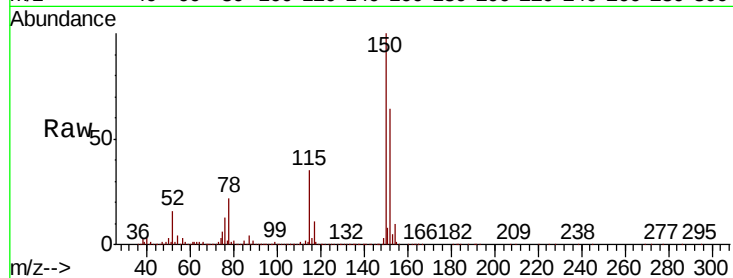
Tgt Ion: 152 Resp: 318607

Ion Ratio Lower Upper

152 100

115 52.2 37.3 111.8

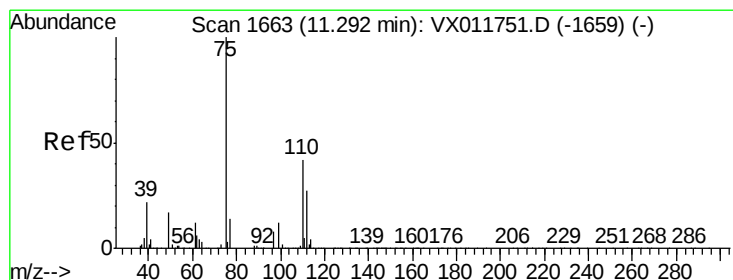
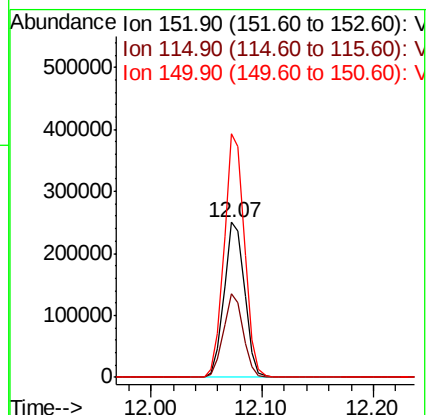
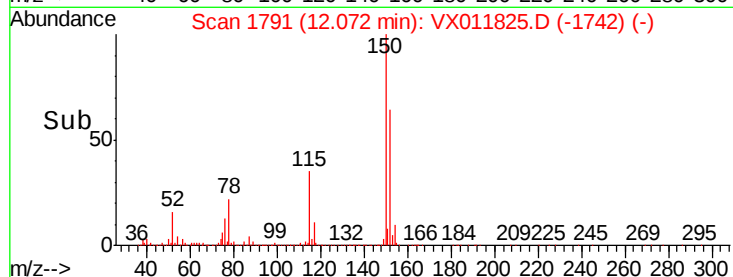
150 156.0 0.0 343.0



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: 21.695 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011825.D

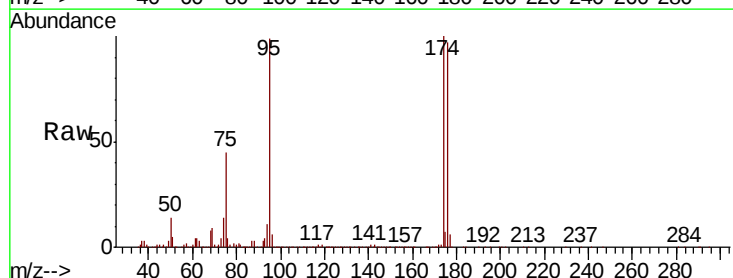
Acq: 24 Aug 2019 17:49

Tgt Ion: 75 Resp: 121289

Ion Ratio Lower Upper

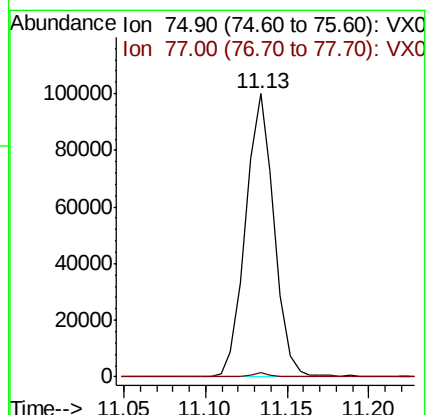
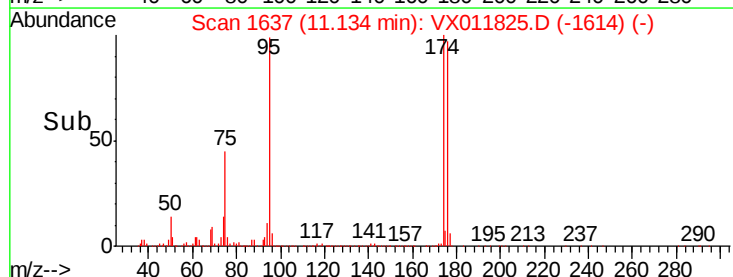
75 100

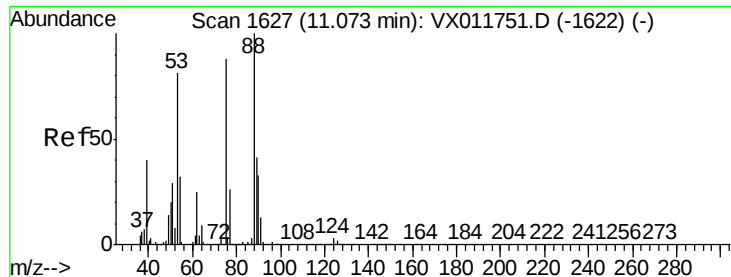
77 1.2 21.1 63.3#



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: 65.429 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011825.D
 Acq: 24 Aug 2019 17:49

Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-F3-(0)

Tgt Ion: 75 Resp: 121289
 Ion Ratio Lower Upper
 75 100
 53 0.6 77.1 115.7#
 89 0.0 38.5 57.7#

