

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082219\
 Data File : VX011762.D
 Acq On : 22 Aug 2019 15:21
 Operator : JC/SP
 Sample : K4388-29
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

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

Quant Time: Aug 23 02:01:50 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	455983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	627813	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	578492	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	271839	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	218516	47.70	ug/l	0.00
Spiked Amount			Recovery	=	95.40%	
35) Dibromofluoromethane	5.49	113	186377	45.91	ug/l	0.00
Spiked Amount			Recovery	=	91.82%	
50) Toluene-d8	8.71	98	721635	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	11.13	95	247388	44.20	ug/l	0.00
Spiked Amount			Recovery	=	88.40%	

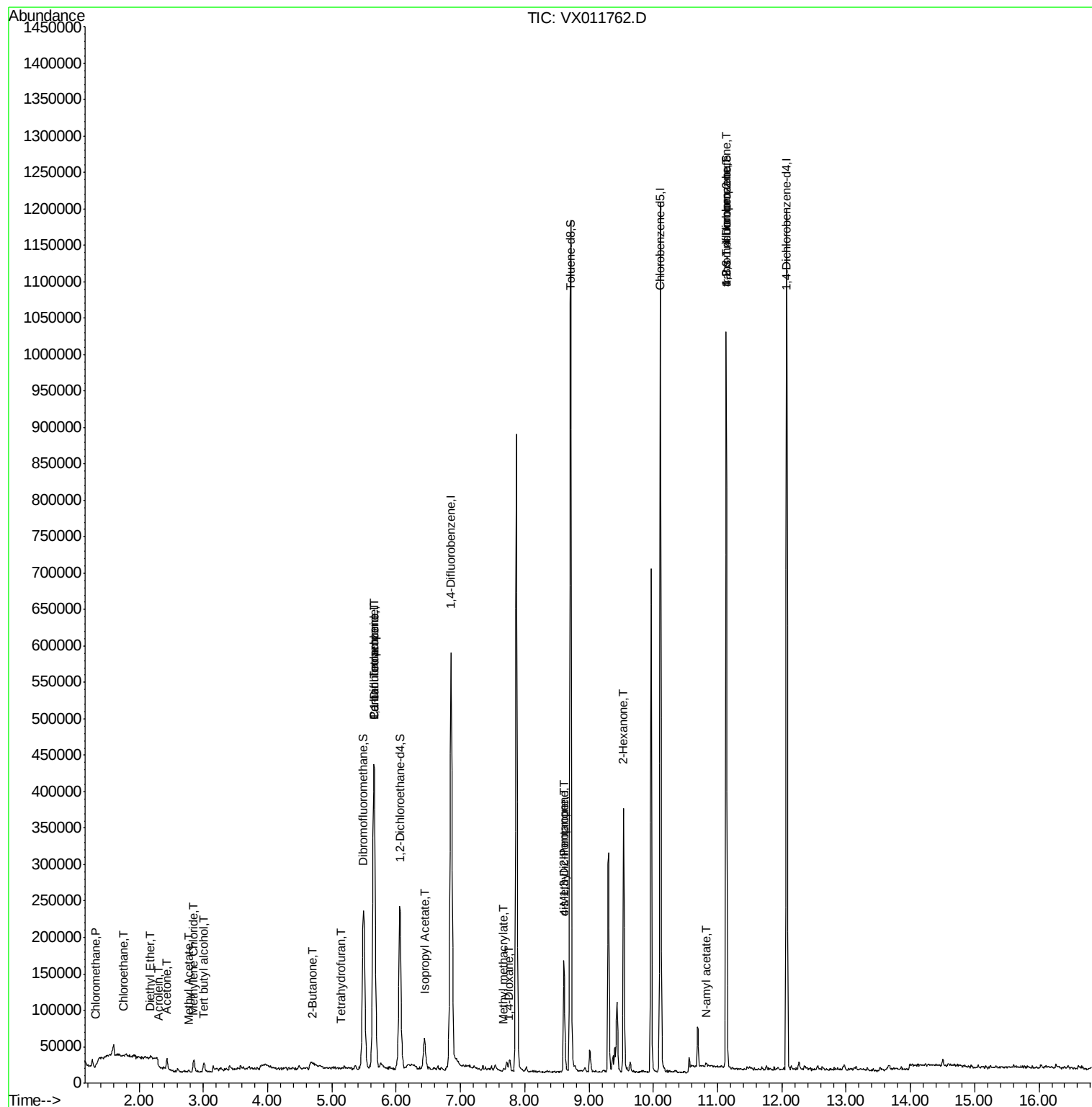
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	897	0.240	ug/l #	69
6) Chloroethane	1.76	64	1709	0.783	ug/l #	87
8) Diethyl Ether	2.18	74	910	0.451	ug/l	90
11) Tert butyl alcohol	3.01	59	6128	6.770	ug/l #	82
13) Acrolein	2.31	56	416	1.189	ug/l #	62
16) Acetone	2.43	43	14826	7.441	ug/l	98
18) Methyl Acetate	2.77	43	3970	0.734	ug/l #	89
20) Methylene Chloride	2.85	84	8789	2.157	ug/l	86
25) 2-Butanone	4.70	43	2483	0.868	ug/l #	56
29) Tetrahydrofuran	5.15	42	456	0.249	ug/l #	29
36) 1,1-Dichloropropene	5.65	75	26094	5.300	ug/l #	52
38) Carbon Tetrachloride	5.65	117	37650	6.748	ug/l #	16
43) Isopropyl Acetate	6.44	43	55684	6.604	ug/l	97
48) Methyl methacrylate	7.68	41	4710	1.122	ug/l #	13
49) 1,4-Dioxane	7.74	88	150	1.290	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	51860	9.334	ug/l #	54
54) cis-1,3-Dichloropropene	8.61	75	24800	4.262	ug/l #	60
59) 2-Hexanone	9.54	43	42010	9.851	ug/l #	53
74) N-amyl acetate	10.82	43	3021	0.476	ug/l #	57
76) 1,2,3-Trichloropropane	11.13	75	116899	24.507	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	116899	73.910	ug/l #	11

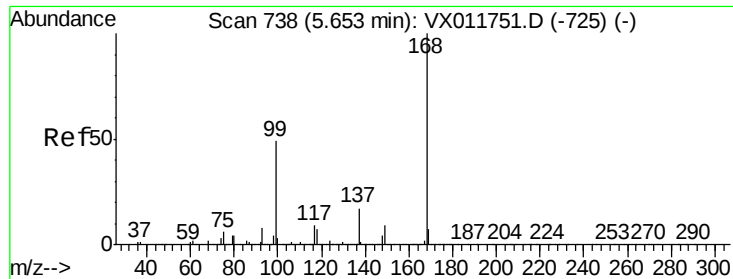
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

Instrument :

MSVOA_X

ClientSampleId :

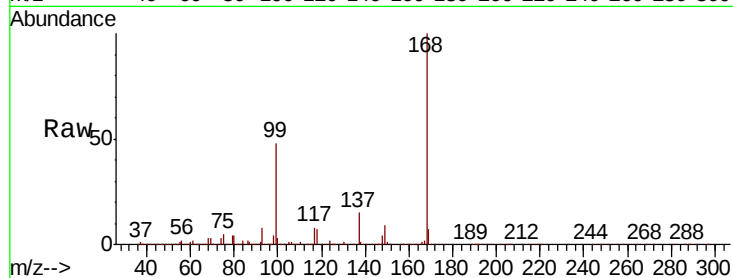
T4-C-(2)

Tgt Ion:168 Resp: 455983

Ion Ratio Lower Upper

168 100

99 47.9 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

150000

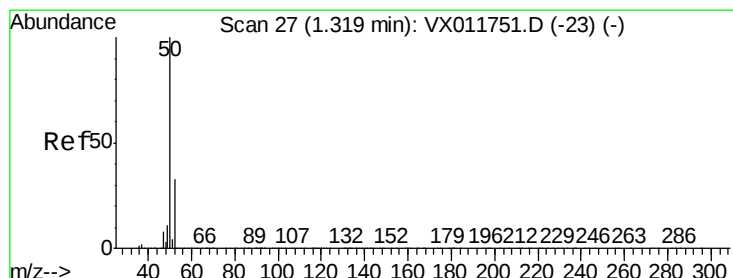
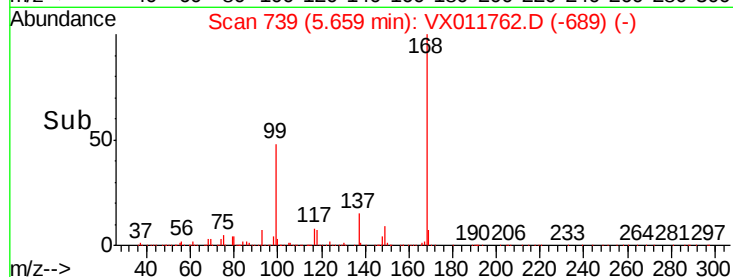
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.240 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011762.D

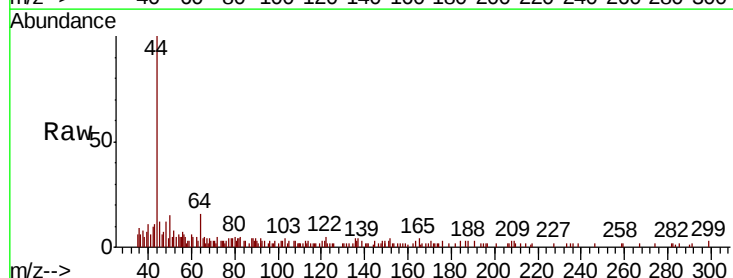
Acq: 22 Aug 2019 15:21

Tgt Ion: 50 Resp: 897

Ion Ratio Lower Upper

50 100

52 15.7 26.6 39.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

600

500

400

300

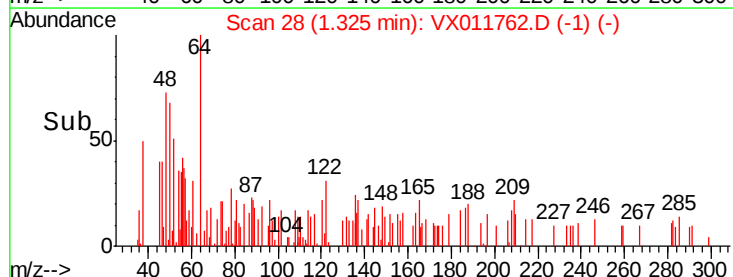
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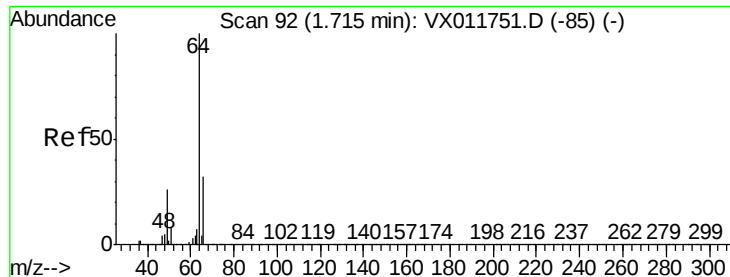
100

0

Time-->

1.30 1.32 1.34 1.36





#6

Chloroethane

Concen: 0.783 ug/l

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

Instrument :

MSVOA_X

ClientSampled :

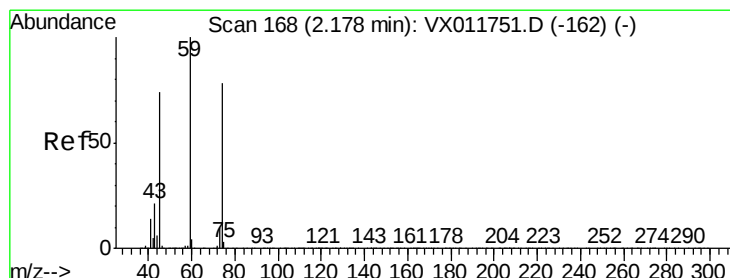
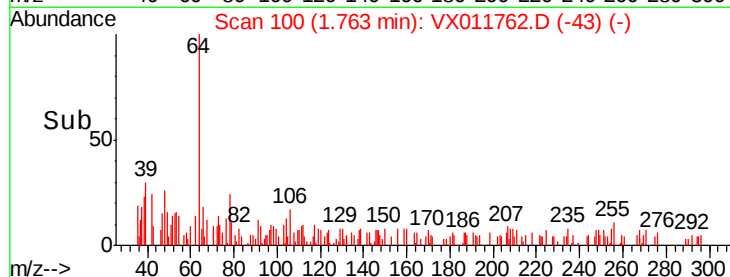
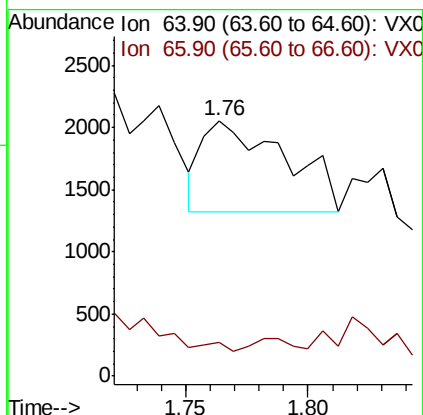
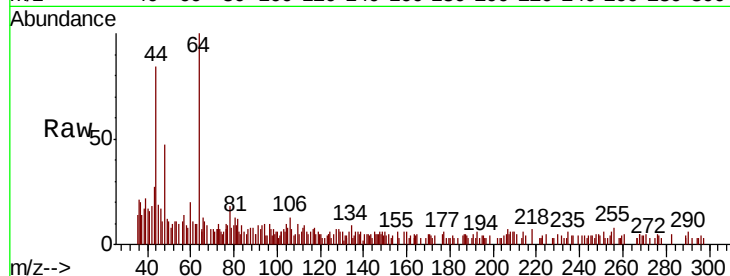
T4-C-(2)

Tgt Ion: 64 Resp: 1709

Ion Ratio Lower Upper

64 100

66 38.0 24.9 37.3#



#8

Diethyl Ether

Concen: 0.451 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VX011762.D

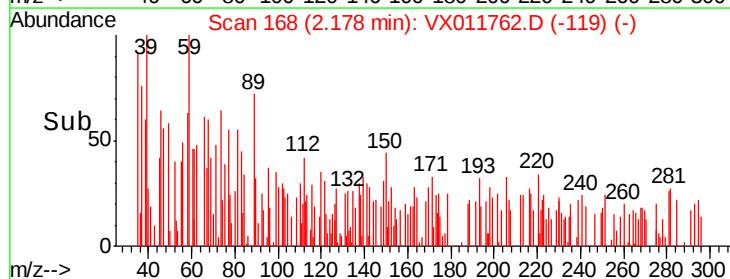
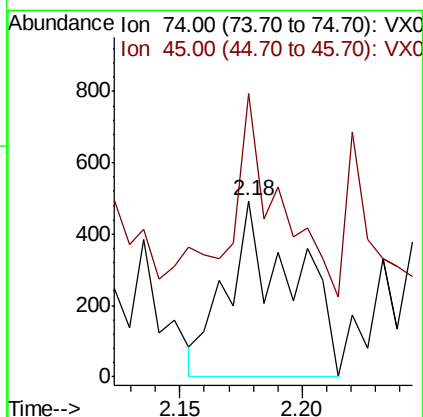
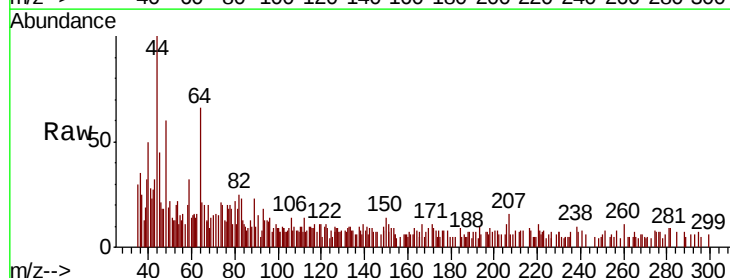
Acq: 22 Aug 2019 15:21

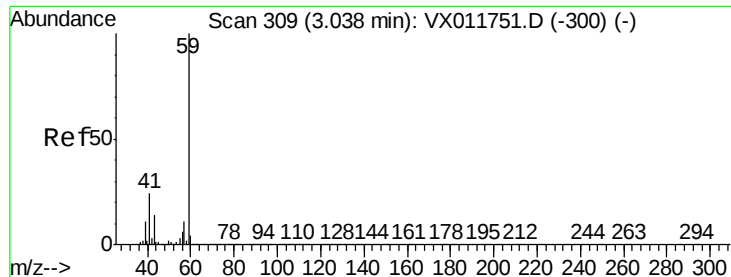
Tgt Ion: 74 Resp: 910

Ion Ratio Lower Upper

74 100

45 83.8 46.7 140.0

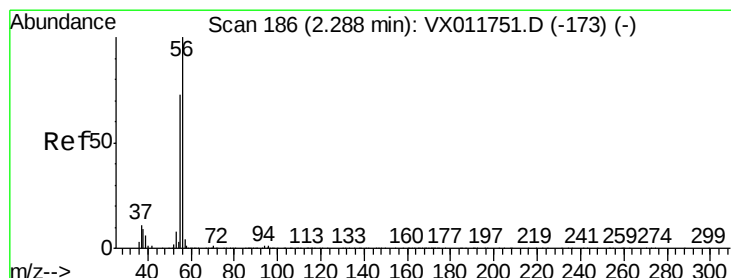
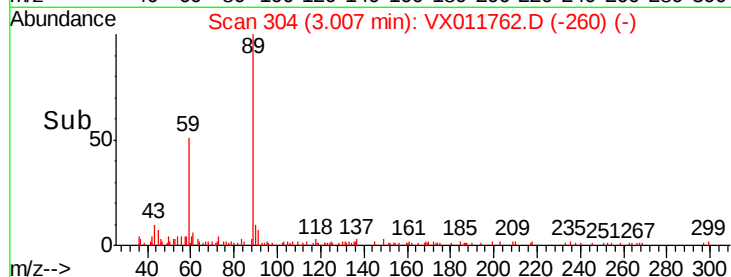
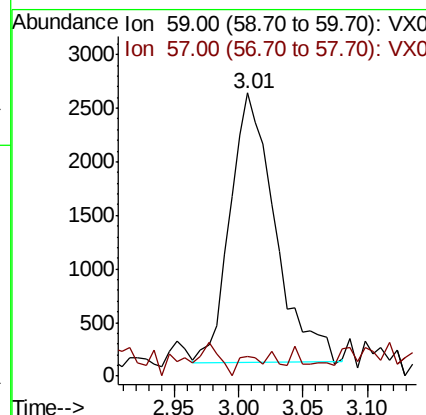
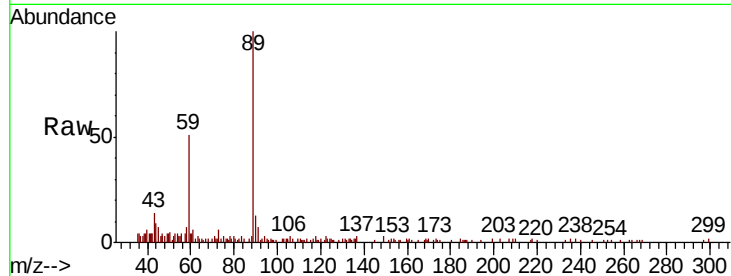




#11
Tert butyl alcohol
Concen: 6.770 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

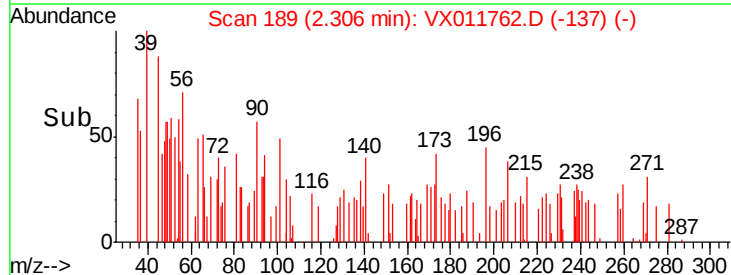
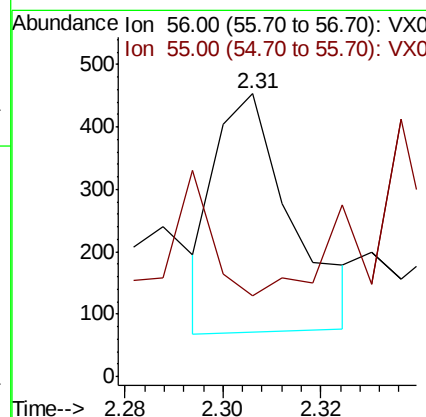
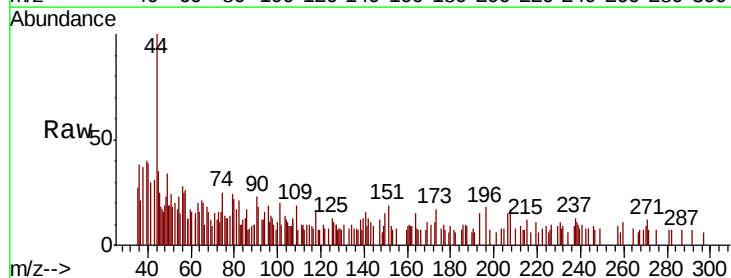
Instrument :
MSVOA_X
ClientSampleId :
T4-C-(2)

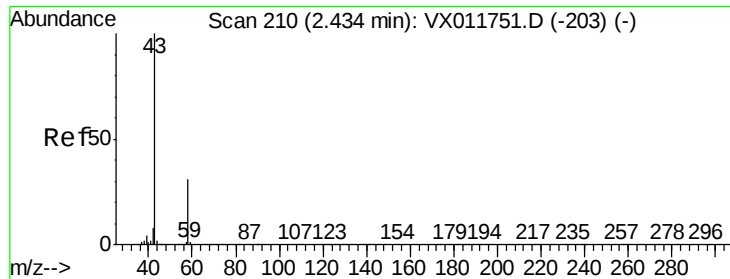
Tgt Ion: 59 Resp: 6128
Ion Ratio Lower Upper
59 100
57 3.8 8.4 12.6#



#13
Acrolein
Concen: 1.189 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.02 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

Tgt Ion: 56 Resp: 416
Ion Ratio Lower Upper
56 100
55 37.5 54.8 82.2#

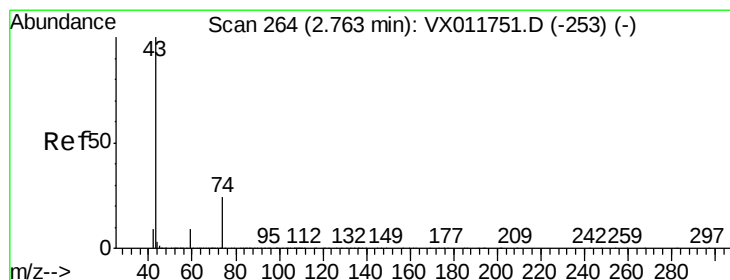
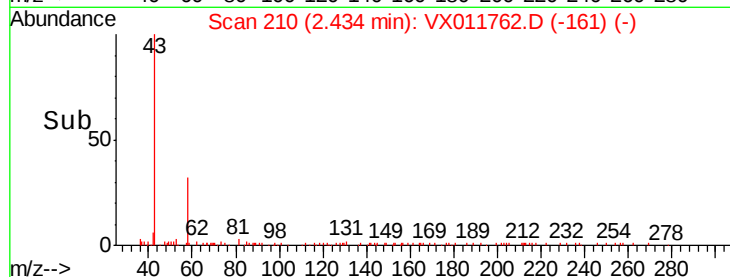
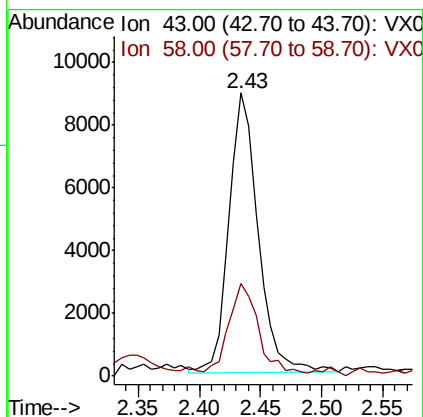
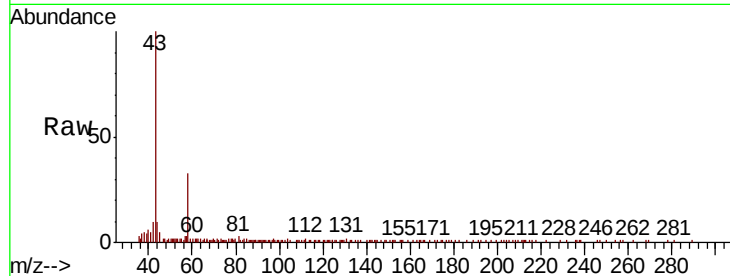




#16
Acetone
Concen: 7.441 ug/l
RT: 2.43 min Scan# 210
Delta R.T. -0.00 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

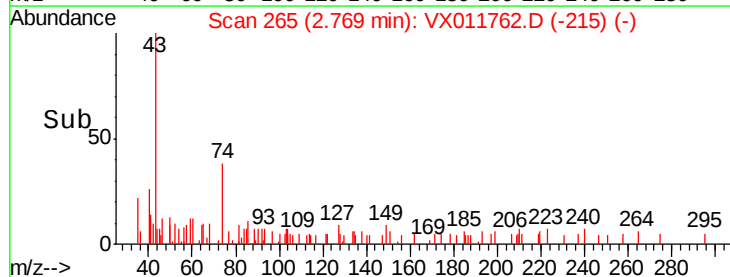
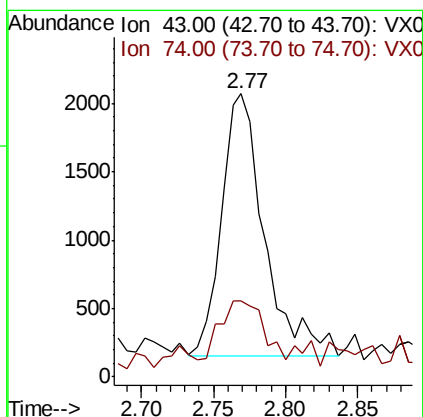
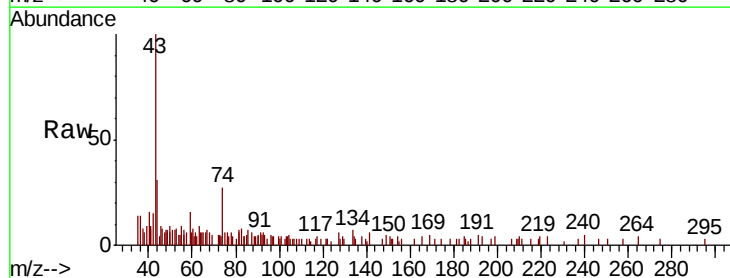
Instrument :
MSVOA_X
ClientSampleId :
T4-C-(2)

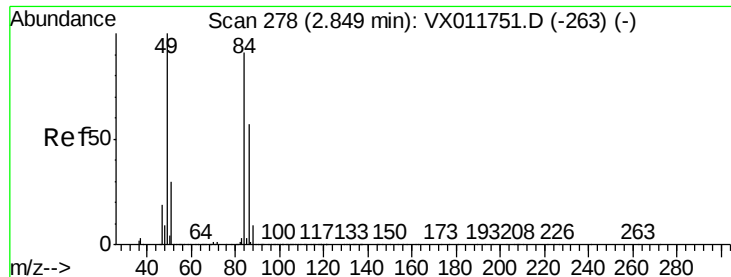
Tgt Ion: 43 Resp: 14826
Ion Ratio Lower Upper
43 100
58 31.7 24.4 36.6



#18
Methyl Acetate
Concen: 0.734 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

Tgt Ion: 43 Resp: 3970
Ion Ratio Lower Upper
43 100
74 29.9 19.5 29.3#

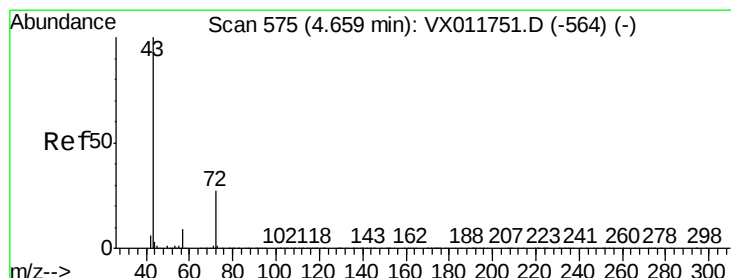
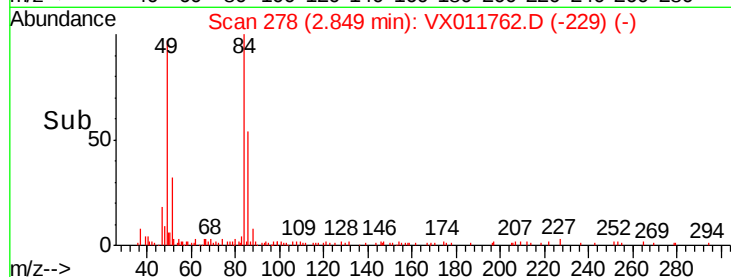
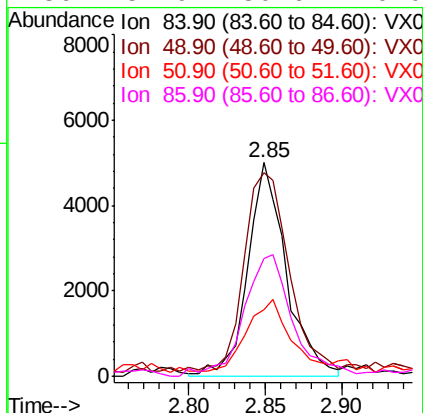
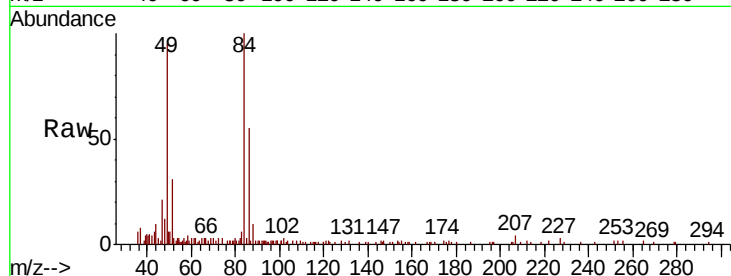




#20
Methylene Chloride
Concen: 2.157 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

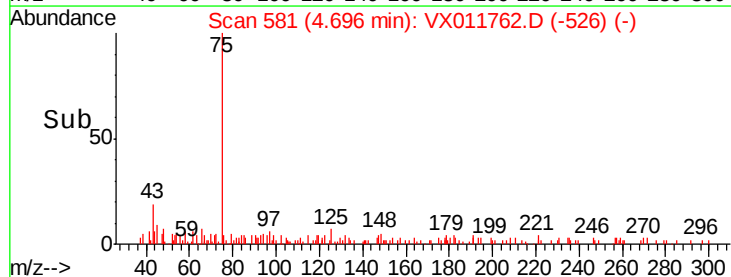
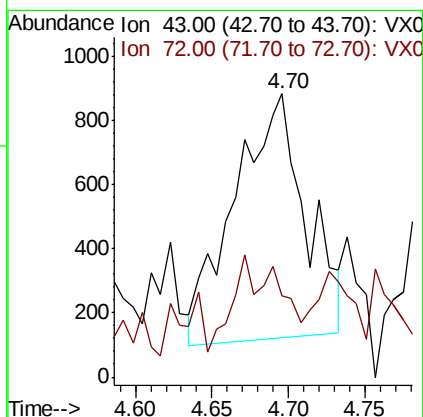
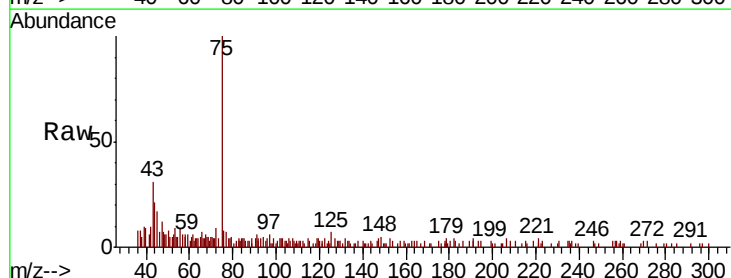
Instrument :
MSVOA_X
ClientSampleId :
T4-C-(2)

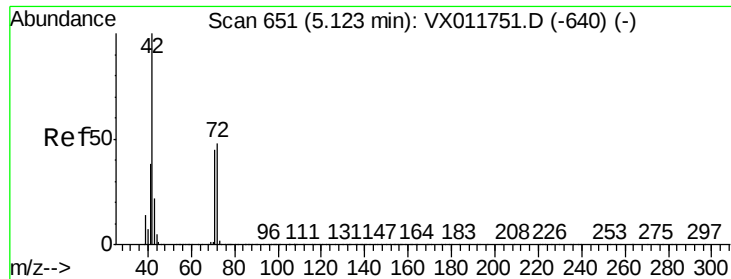
Tgt Ion:	84	Resp:	8789
Ion	Ratio	Lower	Upper
84	100		
49	92.5	88.3	132.5
51	29.5	26.2	39.2
86	51.9	50.6	76.0



#25
2-Butanone
Concen: 0.868 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.04 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

Tgt Ion:	43	Resp:	2483
Ion	Ratio	Lower	Upper
43	100		
72	4.4	21.8	32.6#

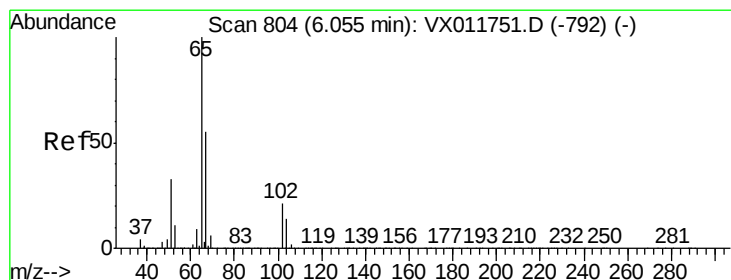
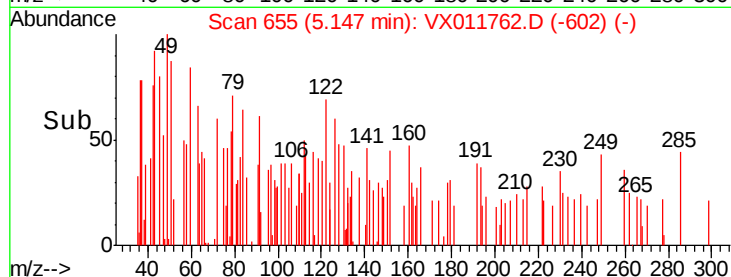
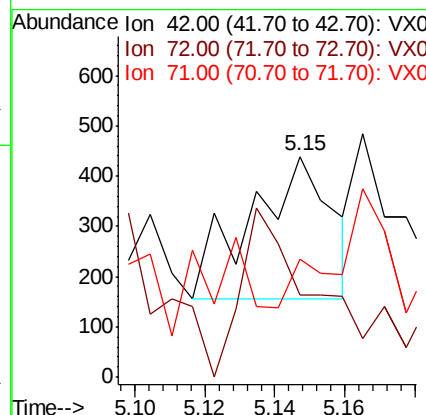
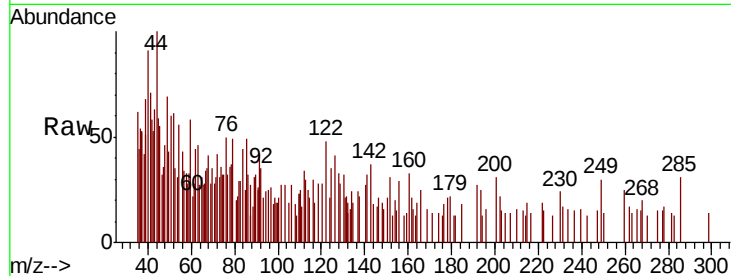




#29
Tetrahydrofuran
Concen: 0.249 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.02 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

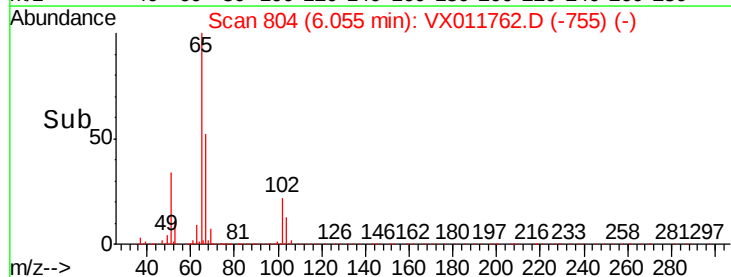
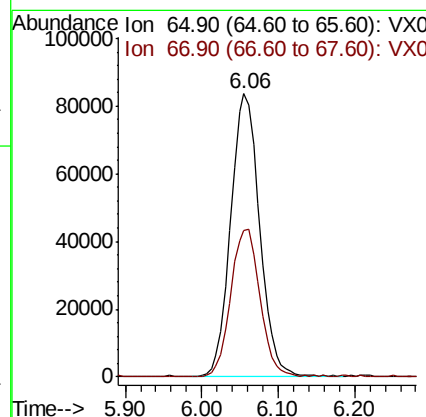
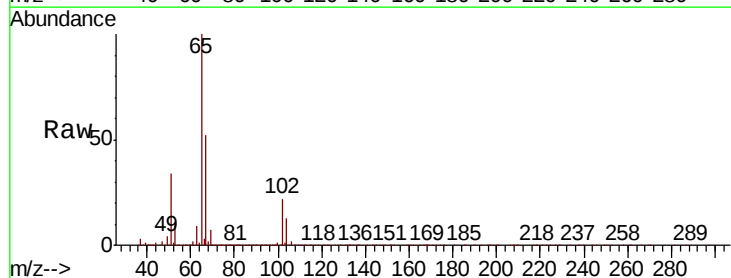
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T4-C-(2)

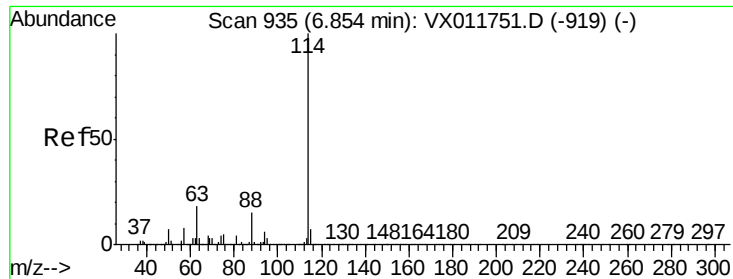
Tgt Ion: 42 Resp: 456
Ion Ratio Lower Upper
42 100
72 0.0 37.6 56.4#
71 88.8 34.6 51.8#



#33
1,2-Dichloroethane-d4
Concen: 47.704 ug/l
RT: 6.06 min Scan# 804
Delta R.T. -0.00 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

Tgt Ion: 65 Resp: 218516
Ion Ratio Lower Upper
65 100
67 52.8 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: VX011762.D

Acq: 22 Aug 2019 15:21

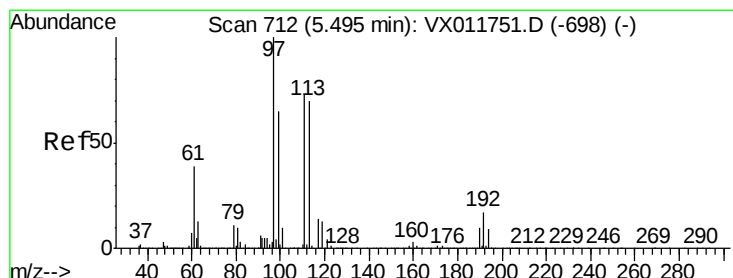
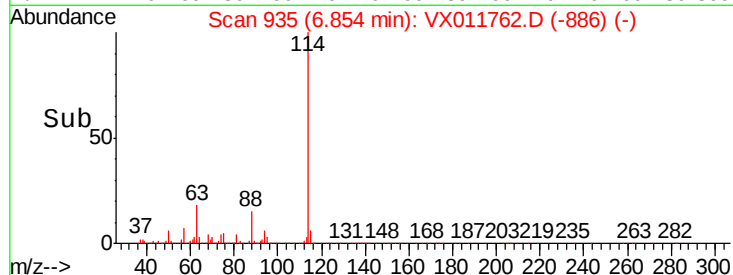
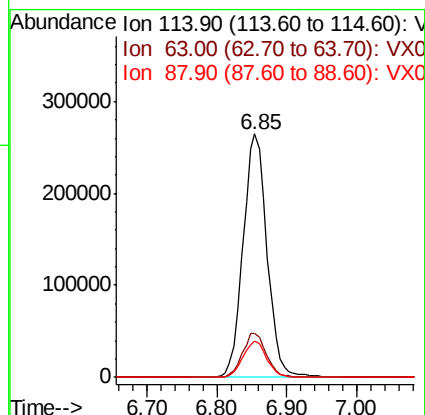
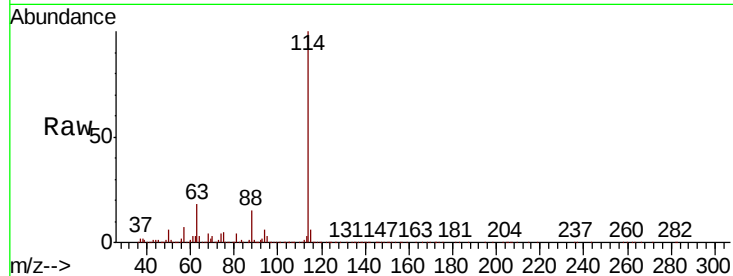
Instrument :

MSVOA_X

ClientSampleId :

T4-C-(2)

Tgt Ion:	114	Resp:	627813
Ion	Ratio	Lower	Upper
114	100		
63	18.0	0.0	36.8
88	14.7	0.0	30.2



#35

Dibromofluoromethane

Concen: 45.909 ug/l

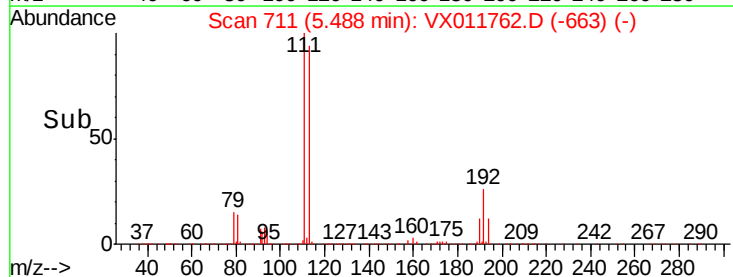
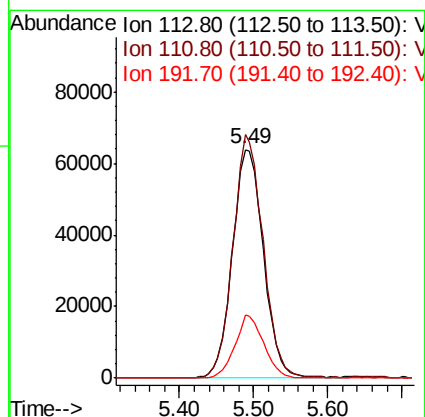
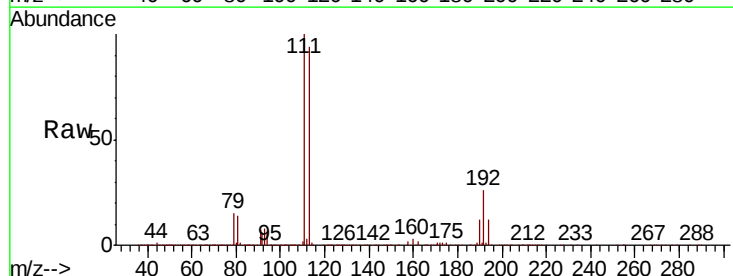
RT: 5.49 min Scan# 711

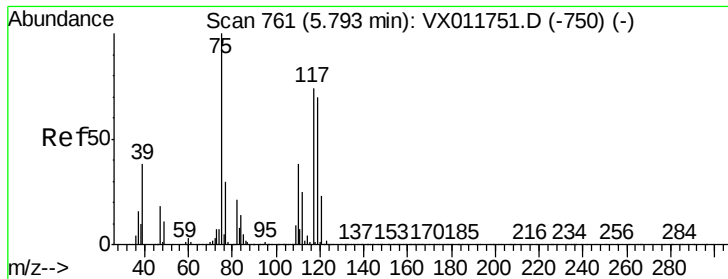
Delta R.T. -0.01 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

Tgt Ion:	113	Resp:	186377
Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.0	121.4
192	25.6	19.9	29.9





#36

1,1-Dichloropropene

Concen: 5.300 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.15 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

Instrument :

MSVOA_X

ClientSampleId :

T4-C-(2)

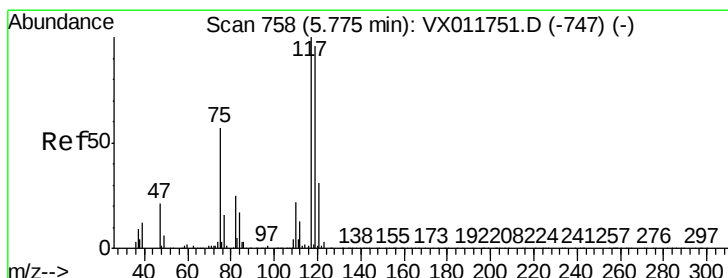
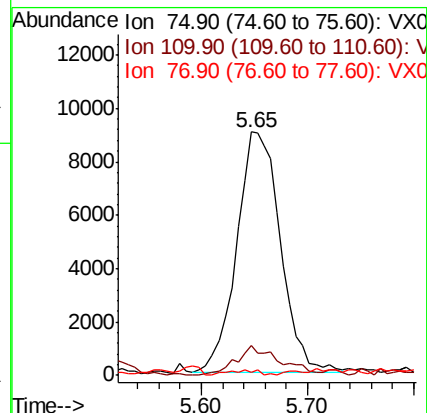
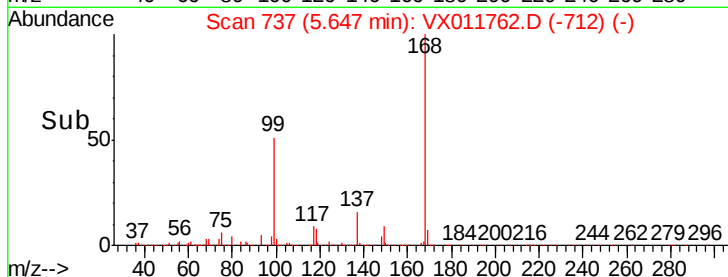
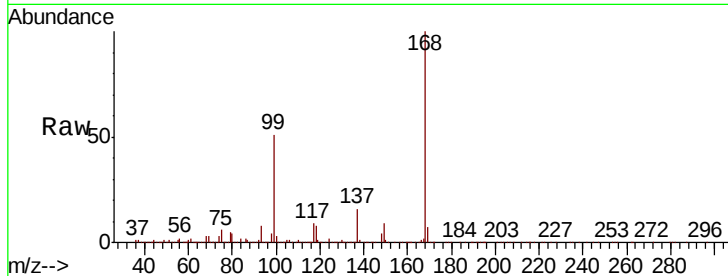
Tgt Ion: 75 Resp: 26094

Ion Ratio Lower Upper

75 100

110 12.3 19.0 57.0#

77 0.8 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 6.748 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.12 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

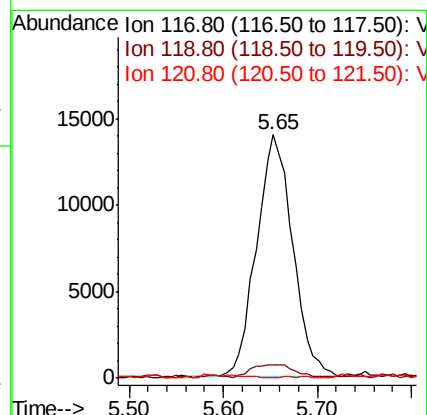
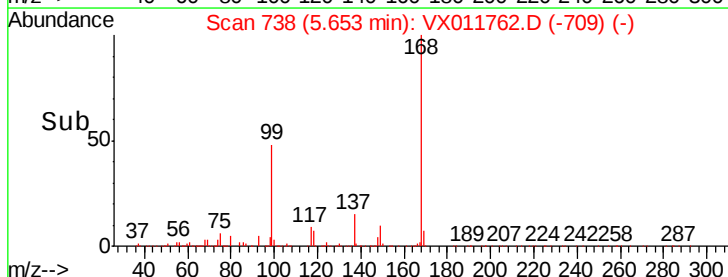
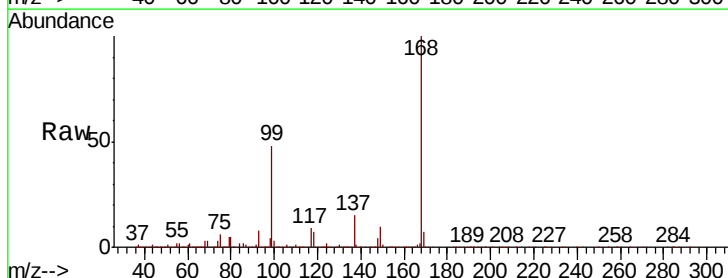
Tgt Ion: 117 Resp: 37650

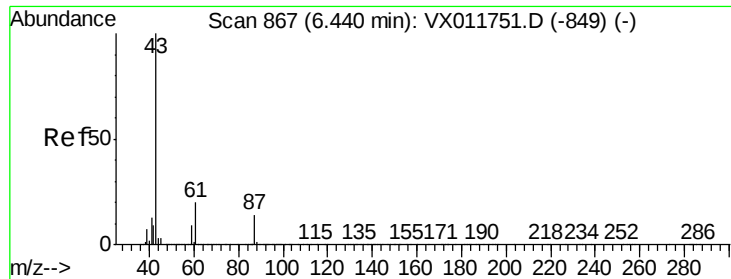
Ion Ratio Lower Upper

117 100

119 5.3 76.6 114.8#

121 0.0 25.2 37.8#

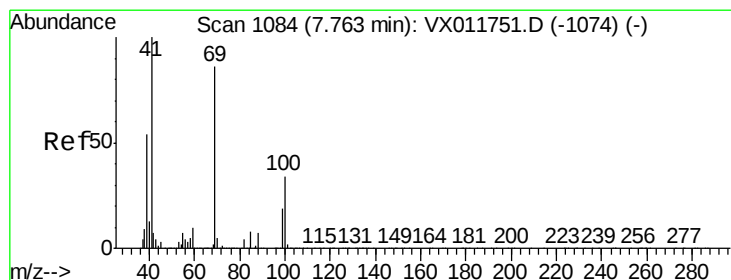
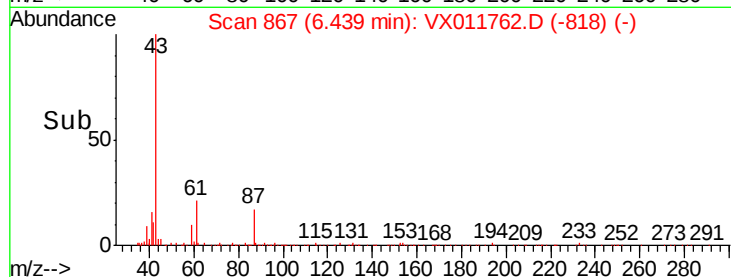
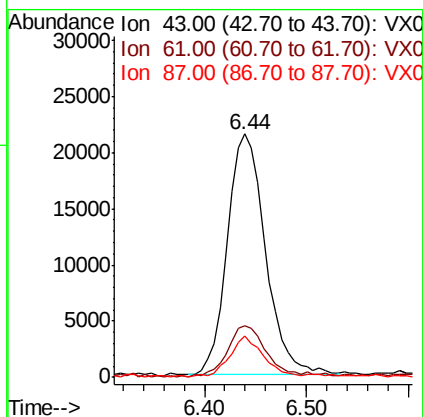
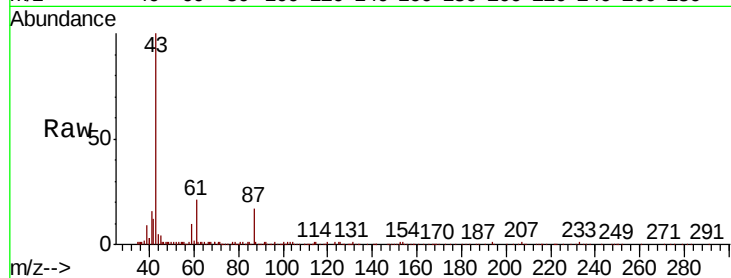




#43
Isopropyl Acetate
Concen: 6.604 ug/l
RT: 6.44 min Scan# 867
Delta R.T. -0.00 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

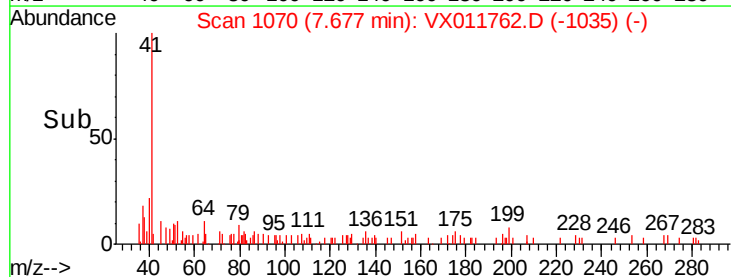
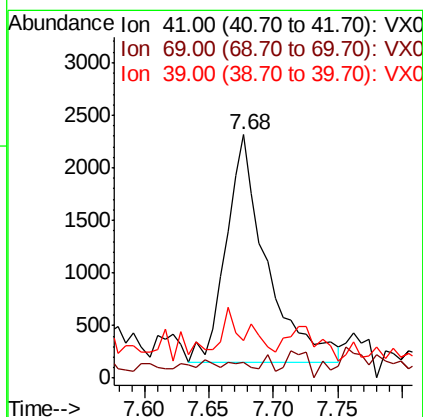
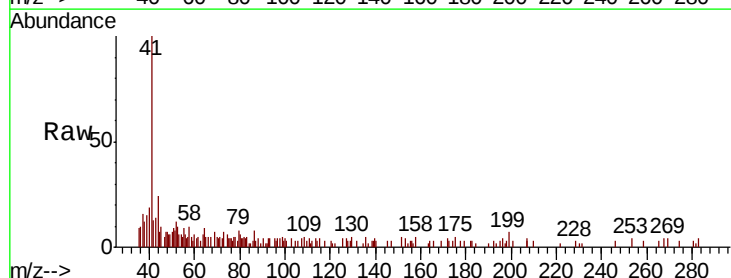
Instrument :
MSVOA_X
ClientSampleId :
T4-C-(2)

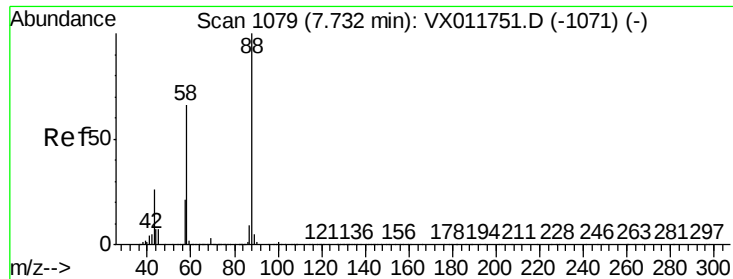
Tgt Ion:	43	Resp:	55684
Ion	Ratio	Lower	Upper
43	100		
61	22.3	16.2	24.2
87	14.7	11.6	17.4



#48
Methyl methacrylate
Concen: 1.122 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

Tgt Ion:	41	Resp:	4710
Ion	Ratio	Lower	Upper
41	100		
69	0.0	69.4	104.2#
39	0.0	43.6	65.4#





#49

1,4-Dioxane

Concen: 1.290 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

Instrument :

MSVOA_X

ClientSampleId :

T4-C-(2)

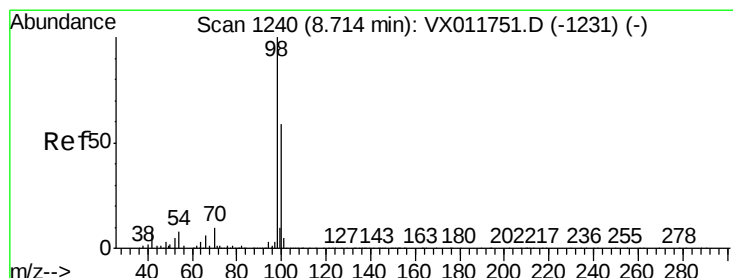
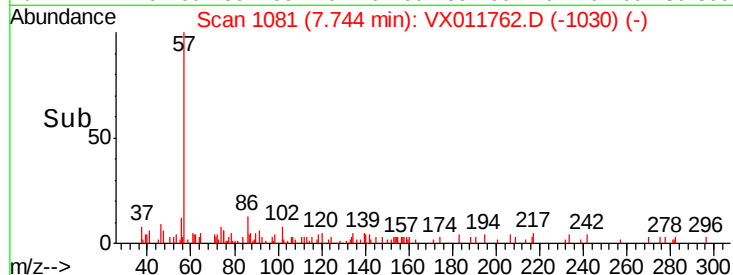
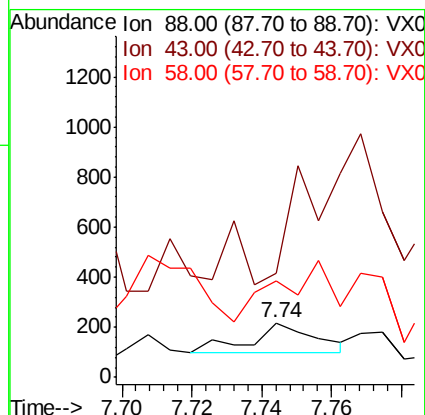
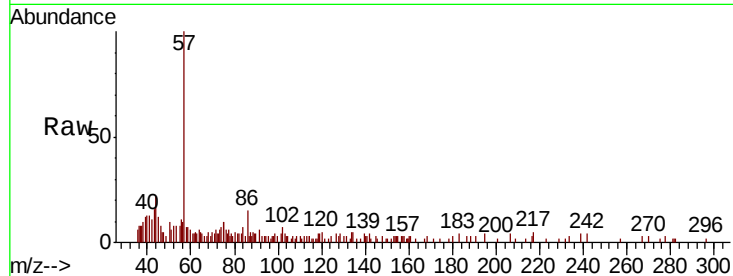
Tgt Ion: 88 Resp: 150

Ion Ratio Lower Upper

88 100

43 0.0 24.6 37.0#

58 726.0 51.4 77.2#



#50

Toluene-d8

Concen: 50.962 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011762.D

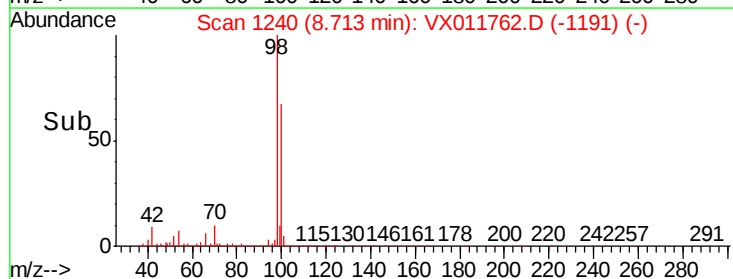
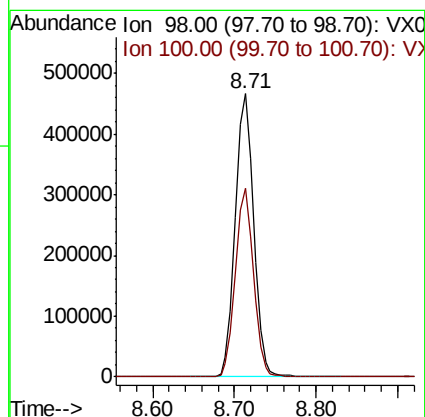
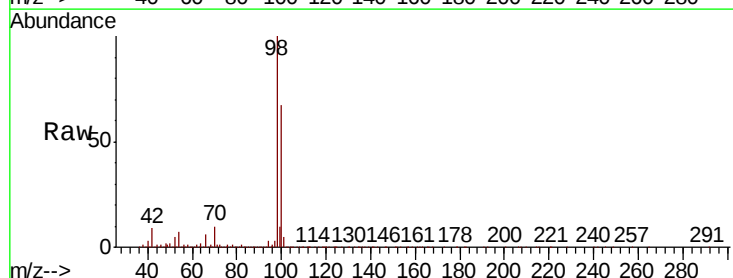
Acq: 22 Aug 2019 15:21

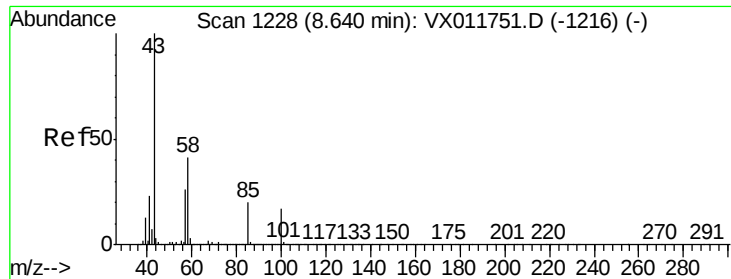
Tgt Ion: 98 Resp: 721635

Ion Ratio Lower Upper

98 100

100 65.7 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 9.334 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

Instrument :

MSVOA_X

ClientSampleId :

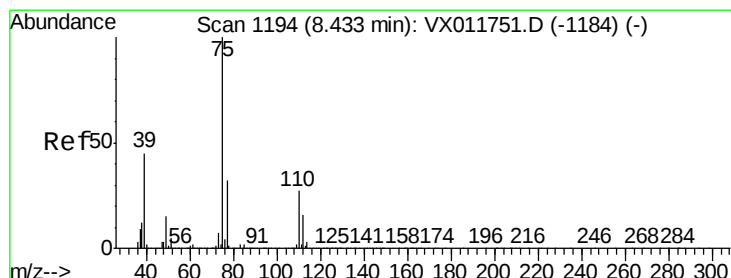
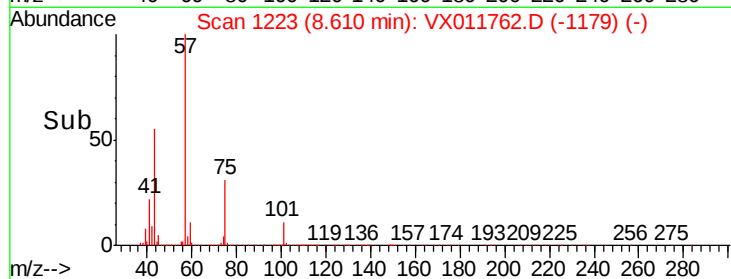
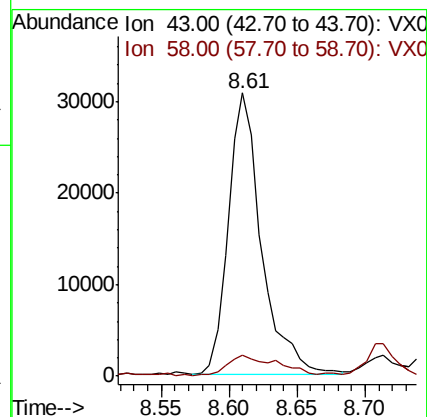
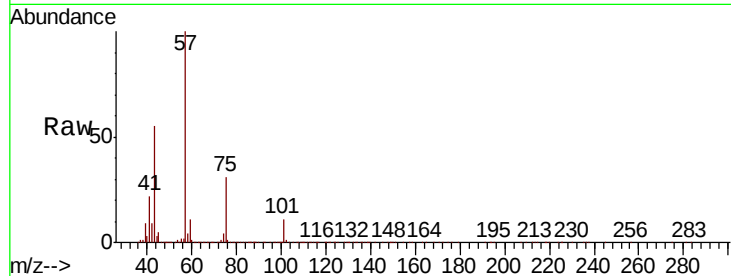
T4-C-(2)

Tgt Ion: 43 Resp: 51860

Ion Ratio Lower Upper

43 100

58 11.6 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 4.262 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

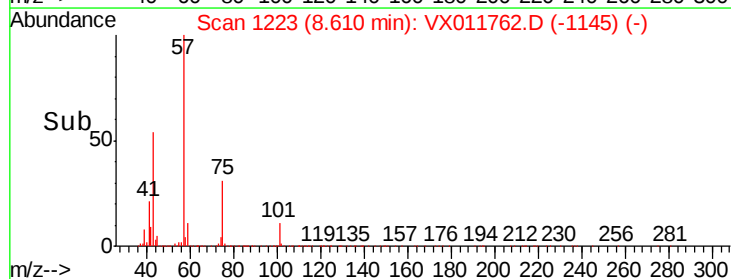
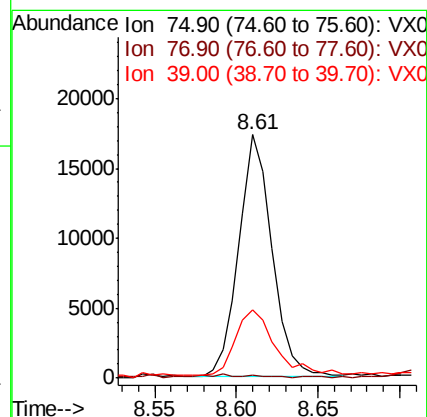
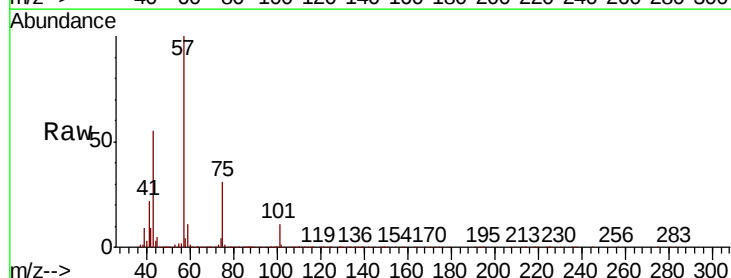
Tgt Ion: 75 Resp: 24800

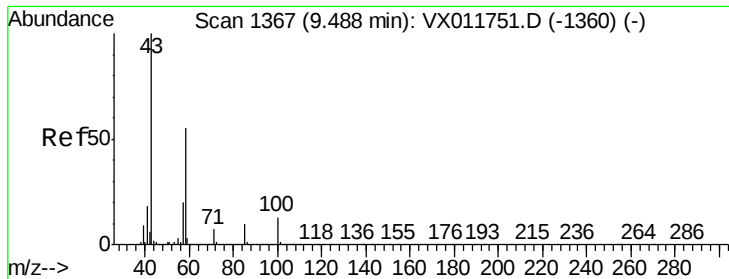
Ion Ratio Lower Upper

75 100

77 0.5 25.4 38.2#

39 27.1 36.2 54.4#

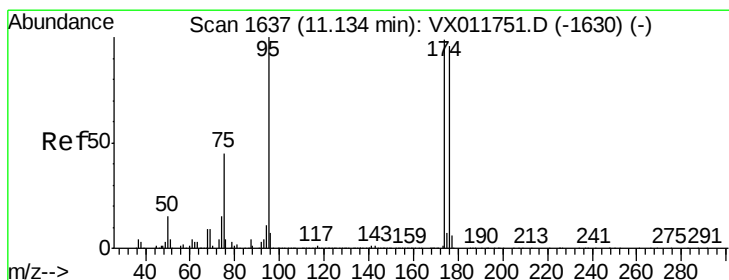
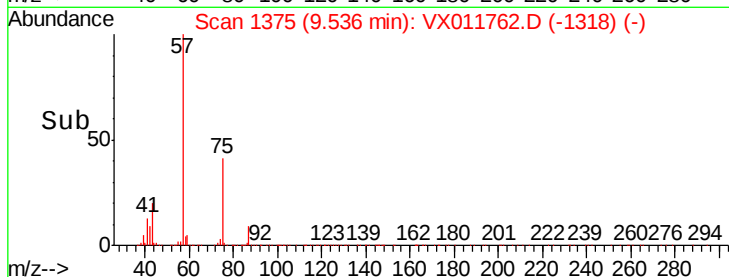
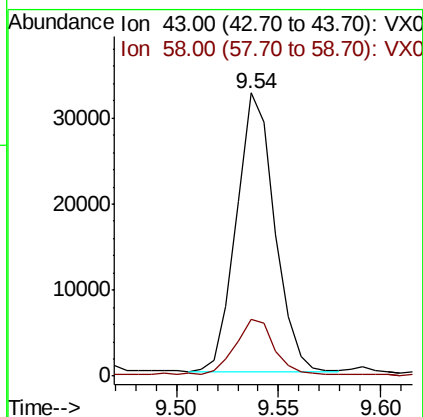
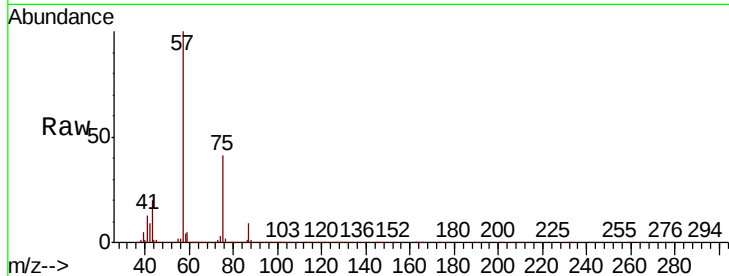




#59
2-Hexanone
Concen: 9.851 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

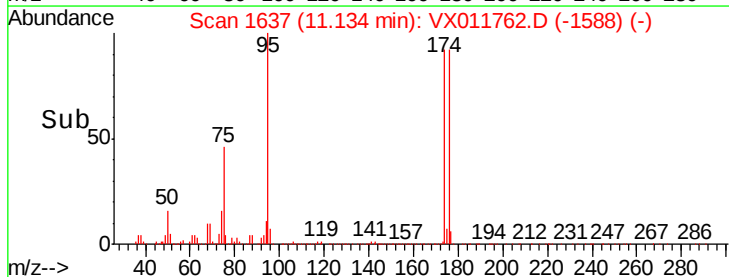
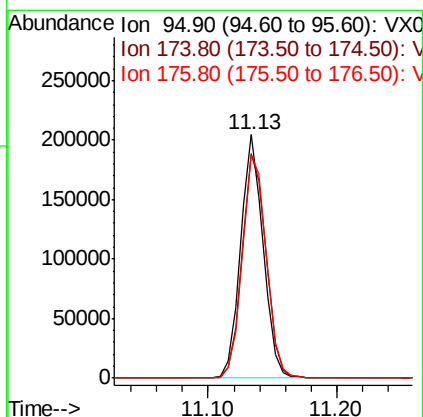
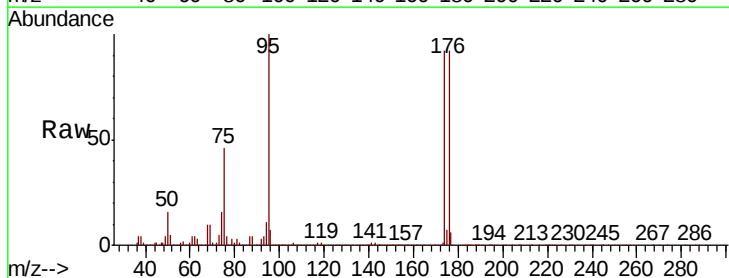
Instrument :
MSVOA_X
ClientSampleId :
T4-C-(2)

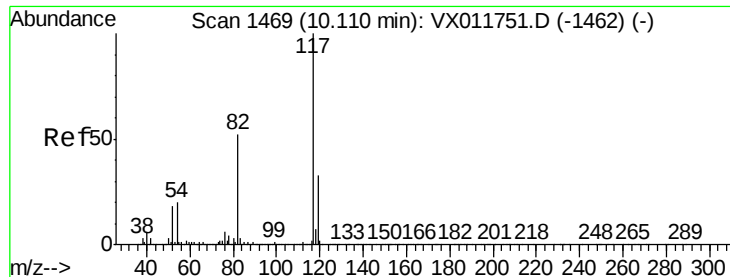
Tgt Ion: 43 Resp: 42010
Ion Ratio Lower Upper
43 100
58 21.5 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 44.200 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

Tgt Ion: 95 Resp: 247388
Ion Ratio Lower Upper
95 100
174 97.5 0.0 197.4
176 96.6 0.0 194.4

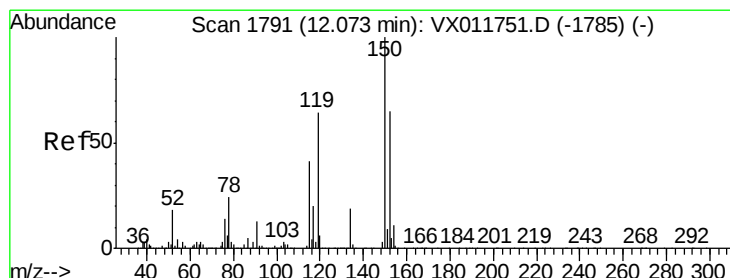
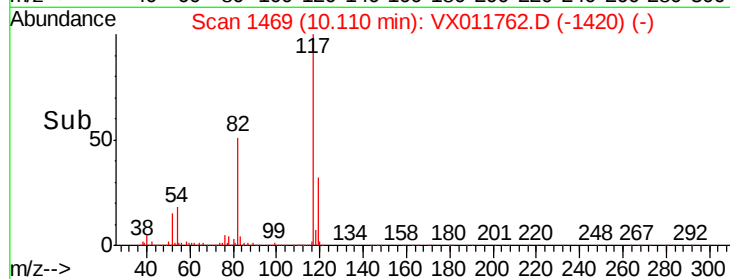
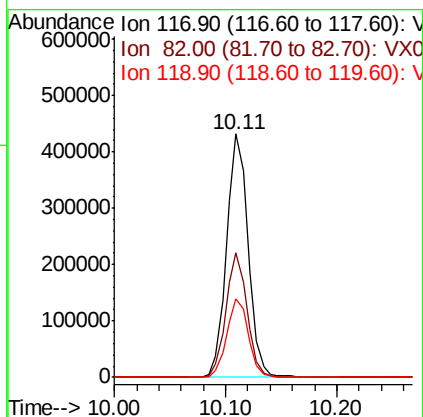
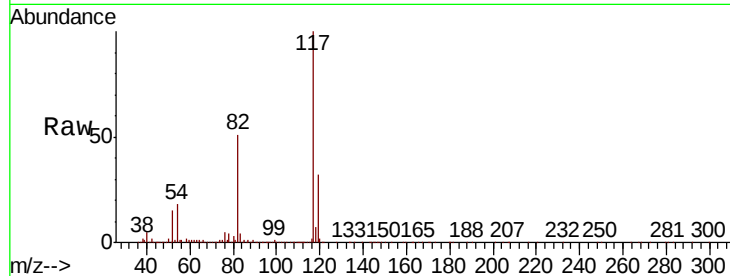




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

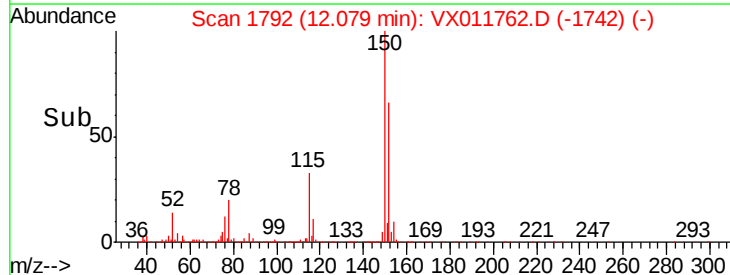
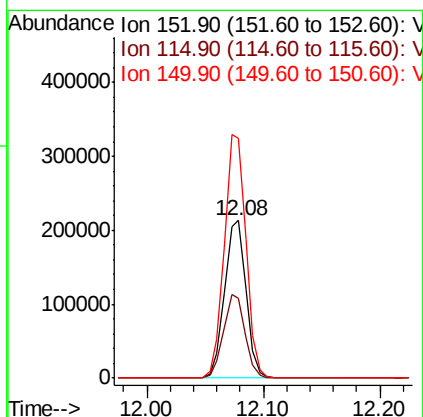
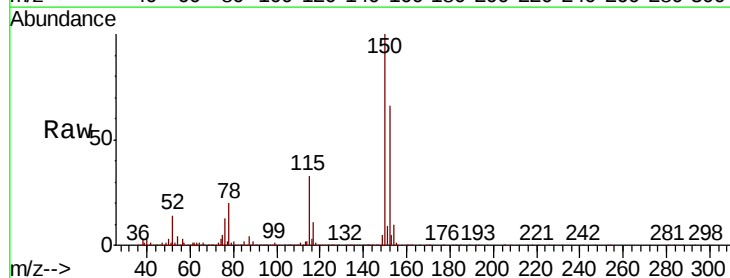
Instrument :
MSVOA_X
ClientSampleId :
T4-C-(2)

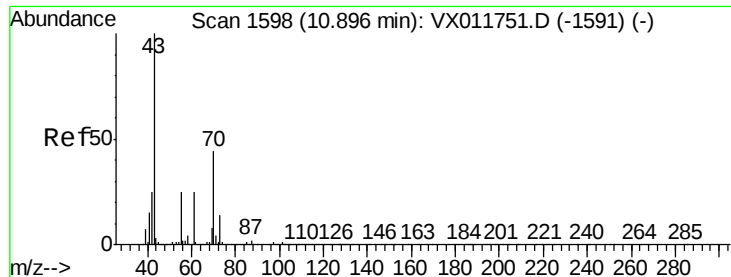
Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.9	41.7	62.5
119	32.4	26.2	39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.01 min
Lab File: VX011762.D
Acq: 22 Aug 2019 15:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.0	37.3	111.8
150	155.3	0.0	343.0





#74

N-ethyl acetate

Concen: 0.476 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

Instrument :

MSVOA_X

ClientSampleId :

T4-C-(2)

Tgt Ion: 43 Resp: 3021

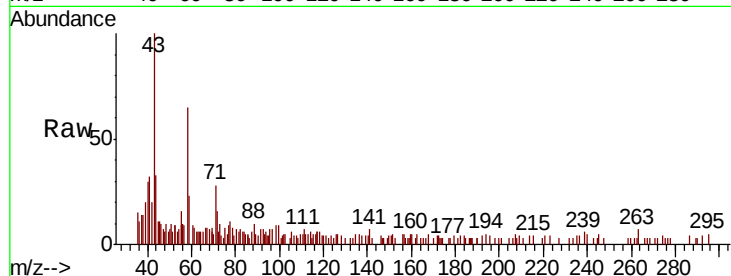
Ion Ratio Lower Upper

43 100

70 10.8 34.8 52.2#

55 13.1 19.5 29.3#

61 0.0 19.8 29.6#

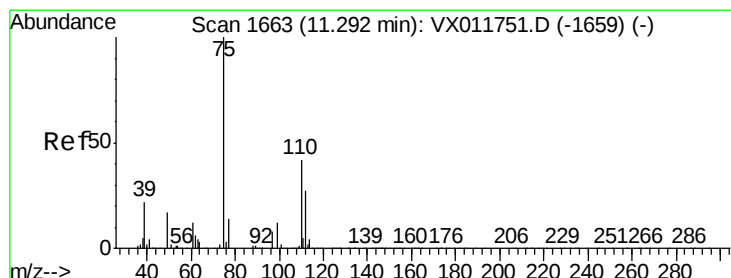
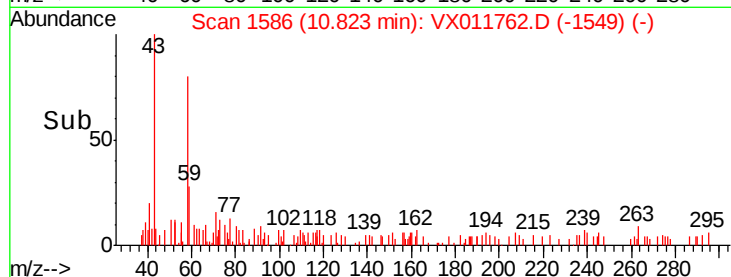
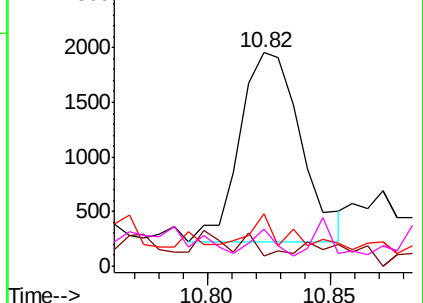


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 24.507 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011762.D

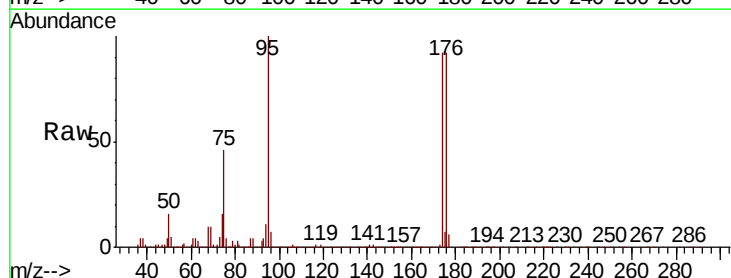
Acq: 22 Aug 2019 15:21

Tgt Ion: 75 Resp: 116899

Ion Ratio Lower Upper

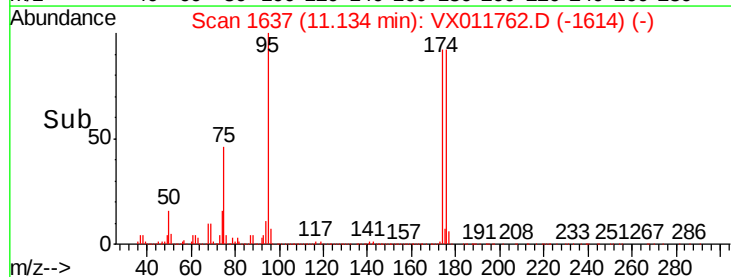
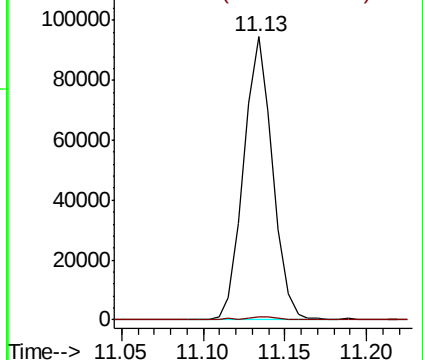
75 100

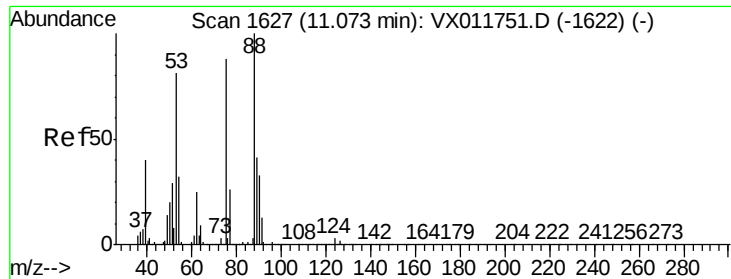
77 1.5 21.1 63.3#



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: 73.910 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011762.D

Acq: 22 Aug 2019 15:21

Instrument :

MSVOA_X

ClientSampleId :

T4-C-(2)

Tgt Ion: 75 Resp: 116899

Ion Ratio Lower Upper

75 100

53 0.6 77.1 115.7#

89 0.0 38.5 57.7#

