

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082019\
 Data File : VX011711.D
 Acq On : 21 Aug 2019 02:23
 Operator : JC/SP
 Sample : K4387-35
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-A2-(2)

Quant Time: Aug 21 05:30:53 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	350793	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	501660	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	463003	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	232874	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	188995	58.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.20%	
35) Dibromofluoromethane	5.49	113	153127	46.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.34%	
50) Toluene-d8	8.71	98	595464	58.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.48%	
62) 4-Bromofluorobenzene	11.13	95	220905	51.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.38%	

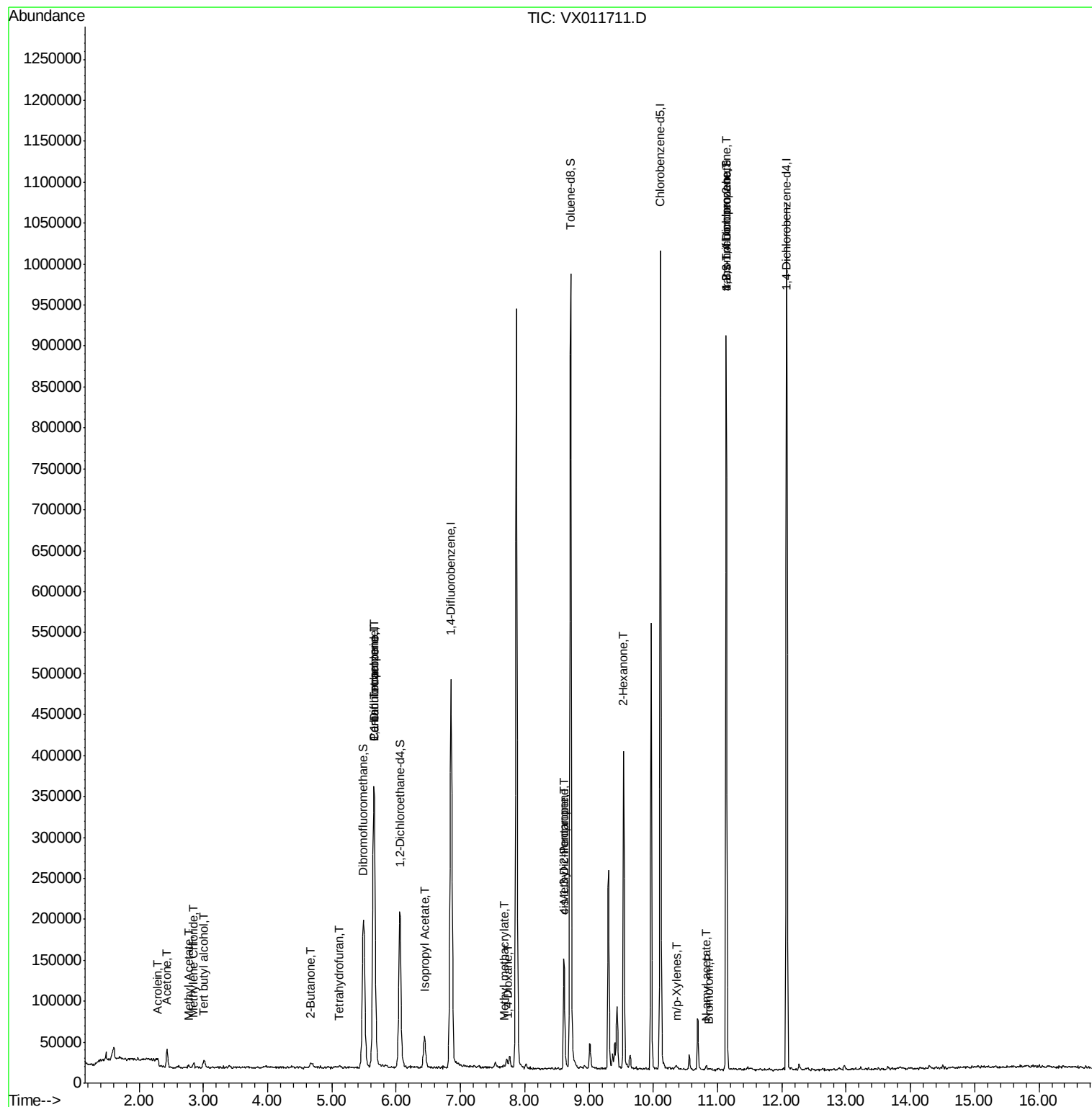
Target Compounds						Qvalue
11) Tert butyl alcohol	3.00	59	6898	8.643	ug/l #	93
13) Acrolein	2.28	56	667	14.768	ug/l #	63
16) Acetone	2.43	43	22873	13.983	ug/l	94
18) Methyl Acetate	2.77	43	4262	0.840	ug/l	91
20) Methylene Chloride	2.85	84	3463	1.008	ug/l #	80
25) 2-Butanone	4.68	43	7408	2.885	ug/l #	87
29) Tetrahydrofuran	5.12	42	452	0.268	ug/l #	80
36) 1,1-Dichloropropene	5.65	75	21519	5.017	ug/l #	53
38) Carbon Tetrachloride	5.65	117	31471	6.660	ug/l #	16
43) Isopropyl Acetate	6.44	43	52298	6.793	ug/l	98
48) Methyl methacrylate	7.68	41	2759	0.724	ug/l #	17
49) 1,4-Dioxane	7.74	88	354	3.491	ug/l #	2
51) 4-Methyl-2-Pentanone	8.61	43	46297	9.187	ug/l #	54
54) cis-1,3-Dichloropropene	8.61	75	23124	4.590	ug/l #	64
59) 2-Hexanone	9.54	43	49543	12.749	ug/l #	50
68) m/p-Xylenes	10.36	106	1725	0.273	ug/l #	64
71) Bromoform	10.86	173	76	3.311	ug/l #	28
74) N-amyl acetate	10.82	43	3528	0.549	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	104289	23.617	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	104289	62.723	ug/l #	11

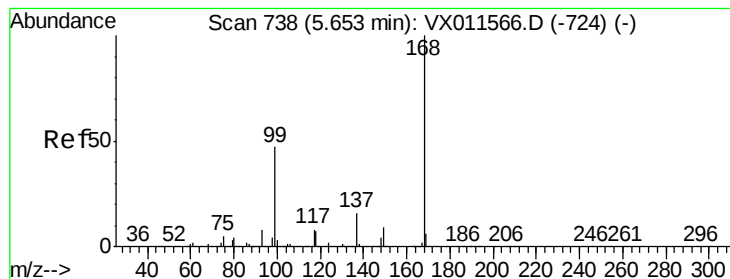
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

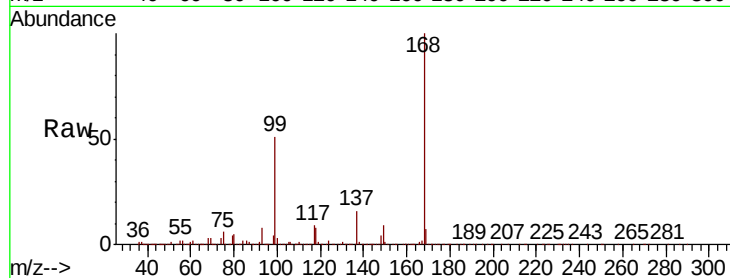
T4-A2-(2)

Tgt Ion:168 Resp: 350793

Ion Ratio Lower Upper

168 100

99 50.7 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

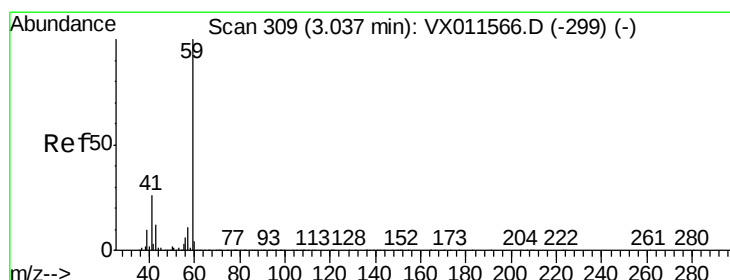
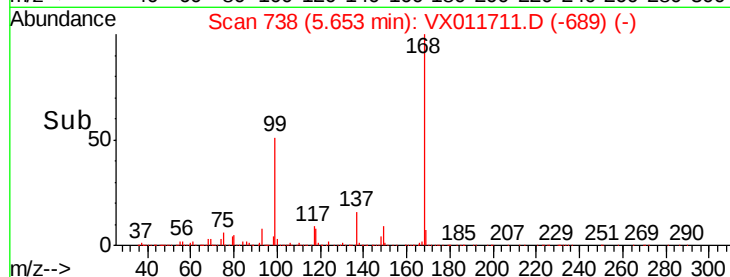
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 8.643 ug/l

RT: 3.00 min Scan# 303

Delta R.T. -0.04 min

Lab File: VX011711.D

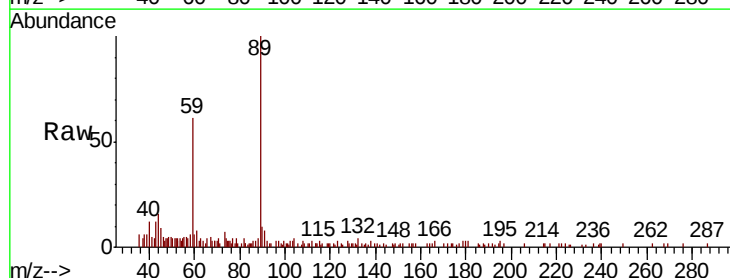
Acq: 21 Aug 2019 02:23

Tgt Ion: 59 Resp: 6898

Ion Ratio Lower Upper

59 100

57 8.4 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

2500

2000

1500

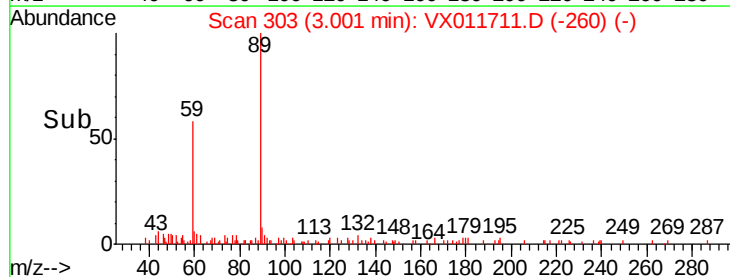
1000

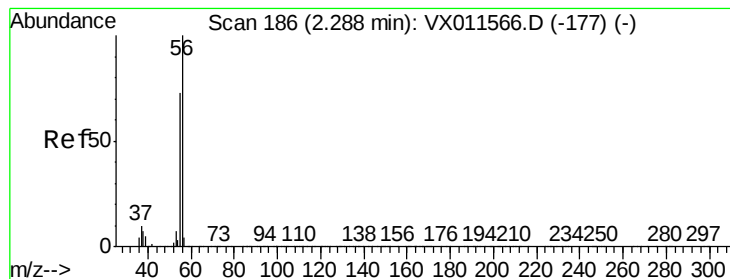
500

0

Time-->

2.90 3.00 3.10





#13

Acrolein

Concen: 14.768 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampled :

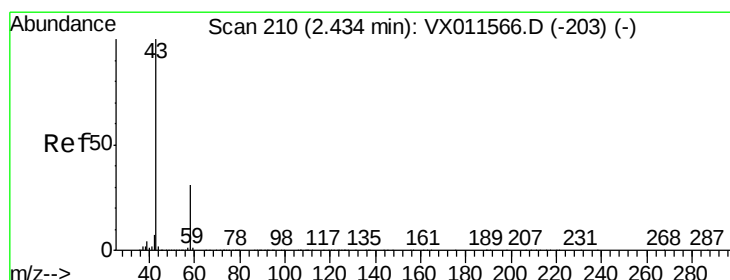
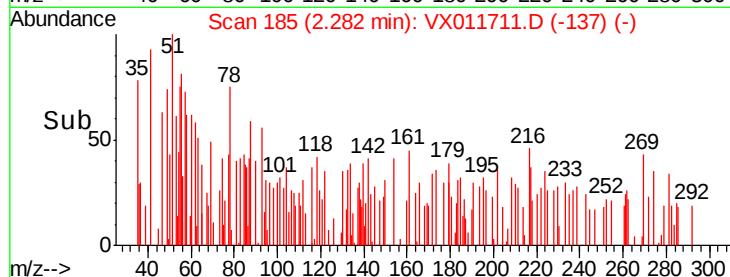
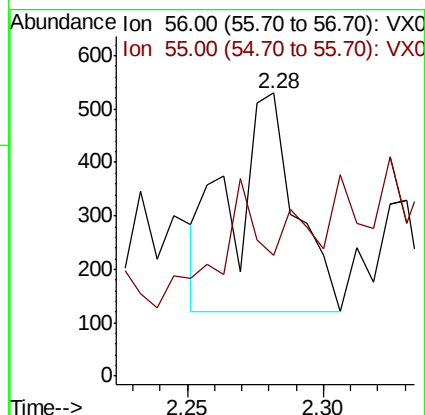
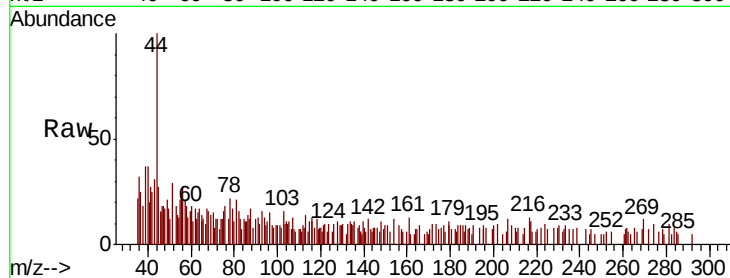
T4-A2-(2)

Tgt Ion: 56 Resp: 667

Ion Ratio Lower Upper

56 100

55 39.1 55.5 83.3#



#16

Acetone

Concen: 13.983 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011711.D

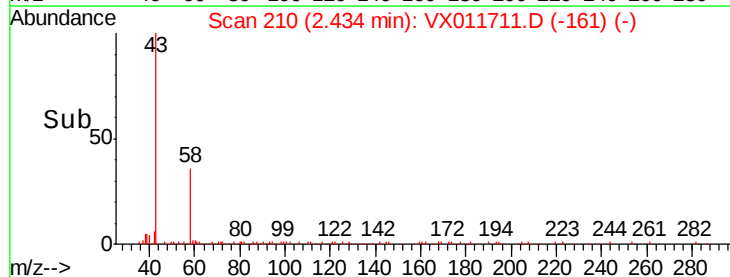
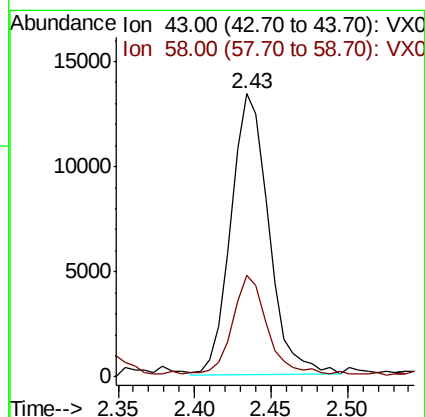
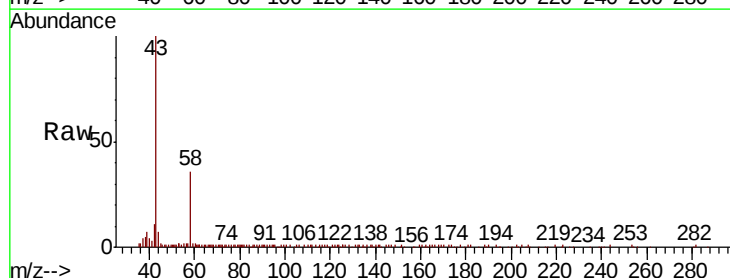
Acq: 21 Aug 2019 02:23

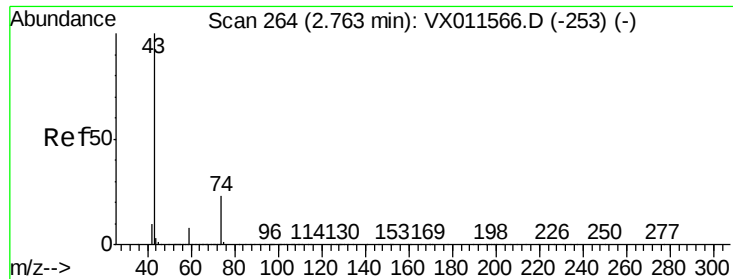
Tgt Ion: 43 Resp: 22873

Ion Ratio Lower Upper

43 100

58 34.8 25.2 37.8

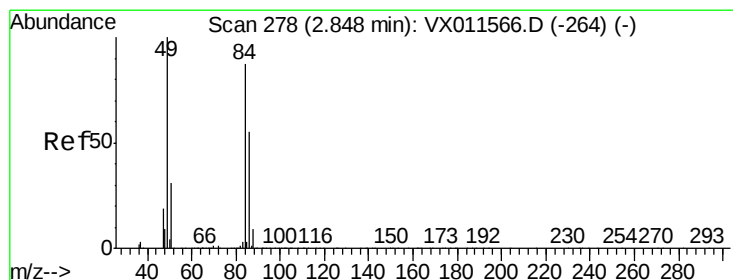
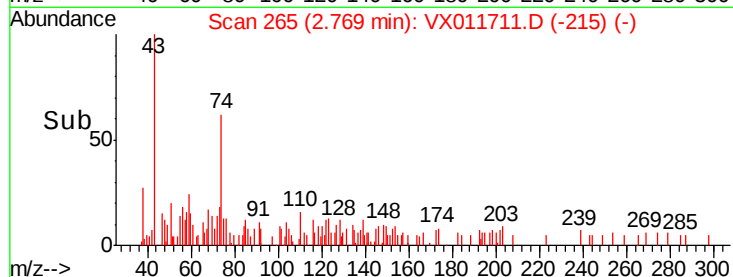
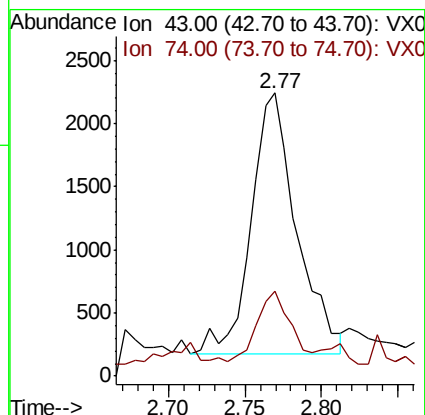
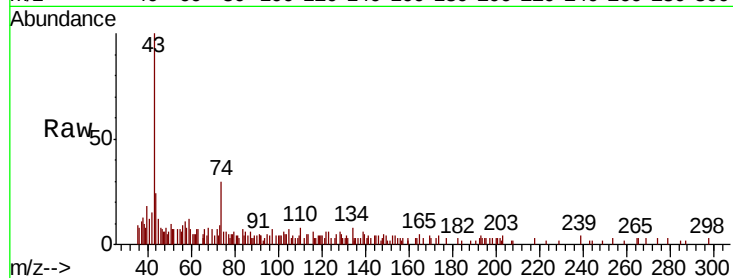




#18
Methyl Acetate
Concen: 0.840 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011711.D
Acq: 21 Aug 2019 02:23

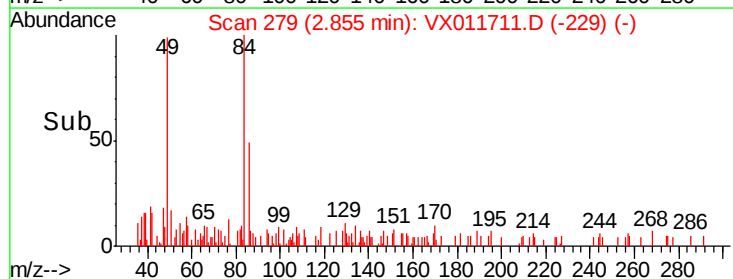
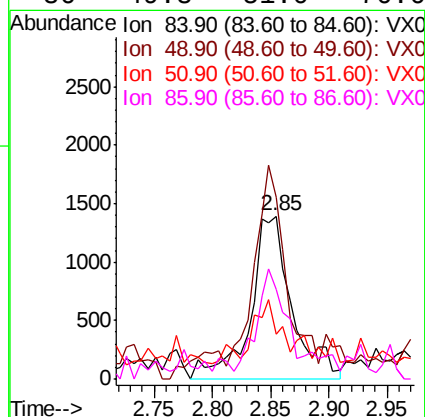
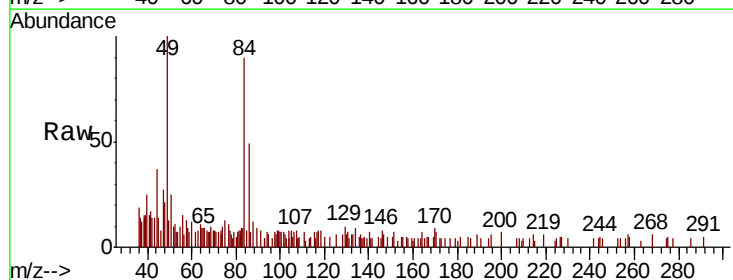
Instrument :
MSVOA_X
ClientSampleId :
T4-A2-(2)

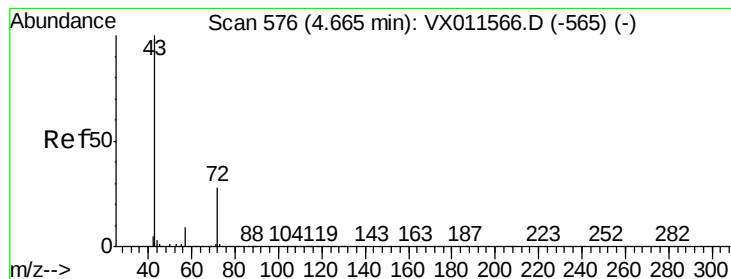
Tgt Ion: 43 Resp: 4262
Ion Ratio Lower Upper
43 100
74 20.0 19.7 29.5



#20
Methylene Chloride
Concen: 1.008 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011711.D
Acq: 21 Aug 2019 02:23

Tgt Ion: 84 Resp: 3463
Ion Ratio Lower Upper
84 100
49 100.1 92.4 138.6
51 12.2 28.5 42.7#
86 49.8 51.0 76.6#





#25

2-Butanone

Concen: 2.885 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

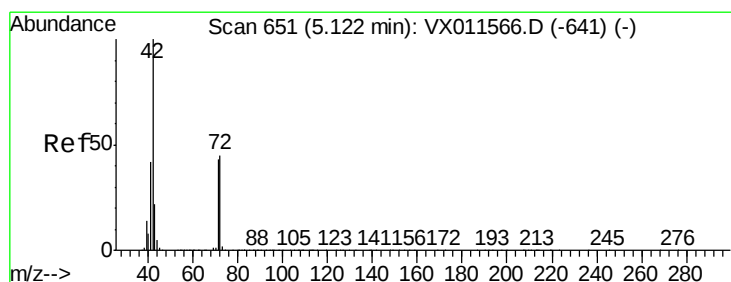
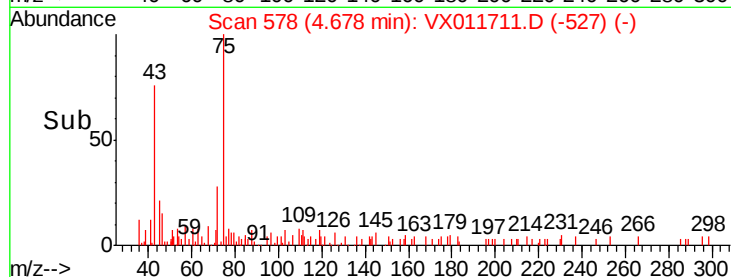
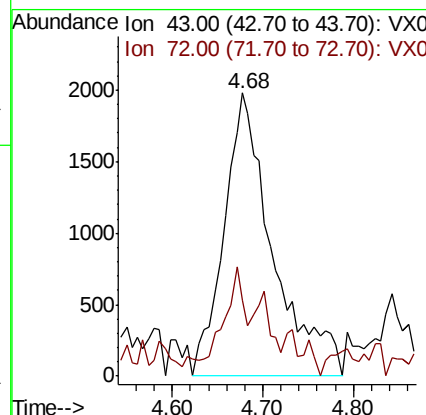
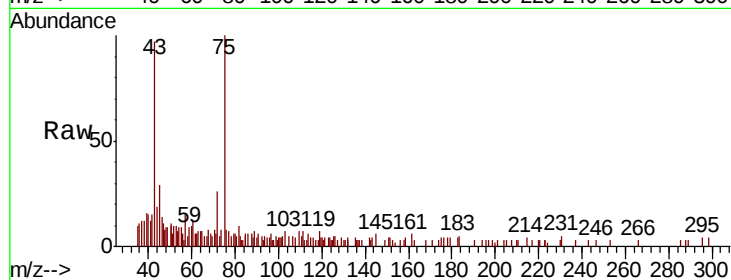
T4-A2-(2)

Tgt Ion: 43 Resp: 7408

Ion Ratio Lower Upper

43 100

72 20.9 22.2 33.4#



#29

Tetrahydrofuran

Concen: 0.268 ug/l

RT: 5.12 min Scan# 651

Delta R.T. 0.00 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

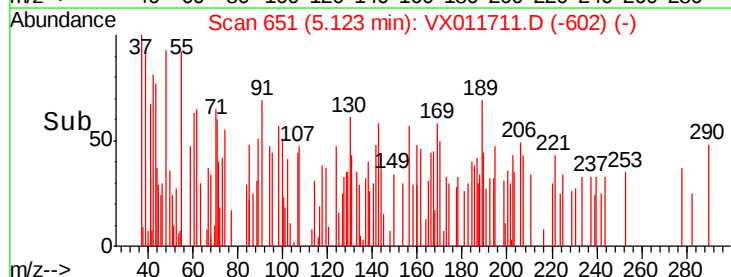
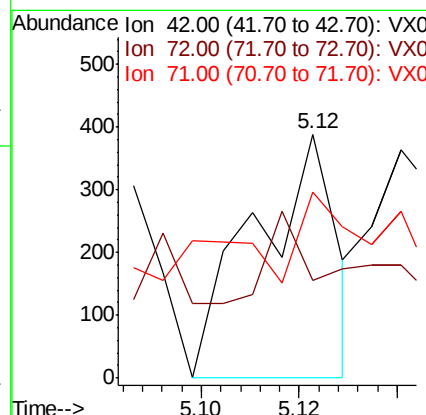
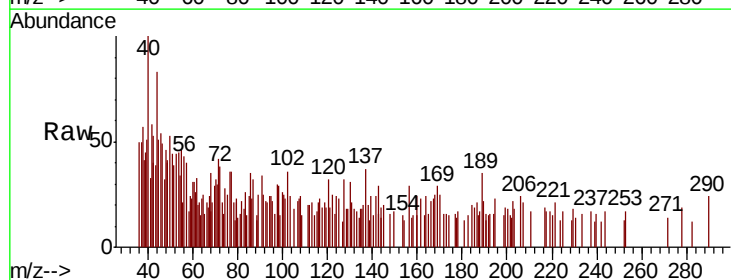
Tgt Ion: 42 Resp: 452

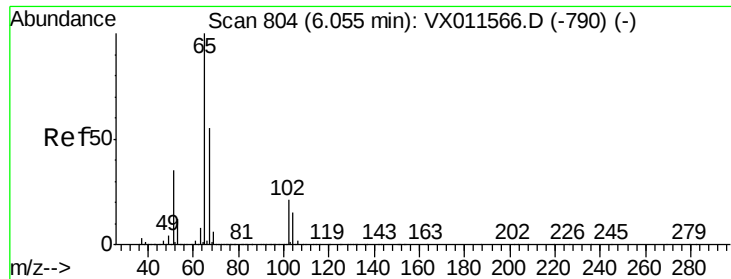
Ion Ratio Lower Upper

42 100

72 36.9 36.1 54.1

71 24.1 33.8 50.8#





#33

1,2-Dichloroethane-d4

Concen: 58.096 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

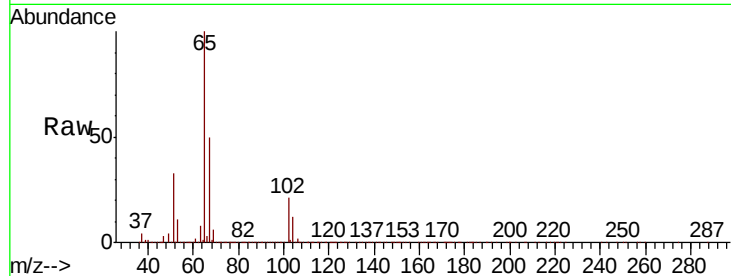
T4-A2-(2)

Tgt Ion: 65 Resp: 188995

Ion Ratio Lower Upper

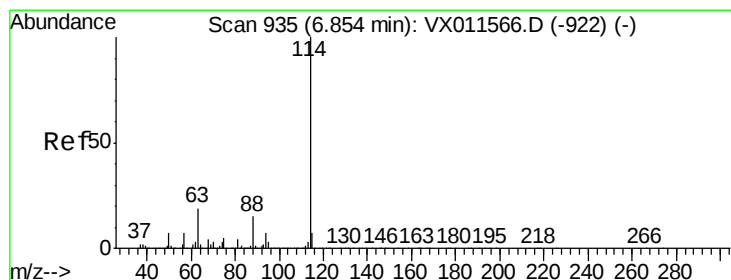
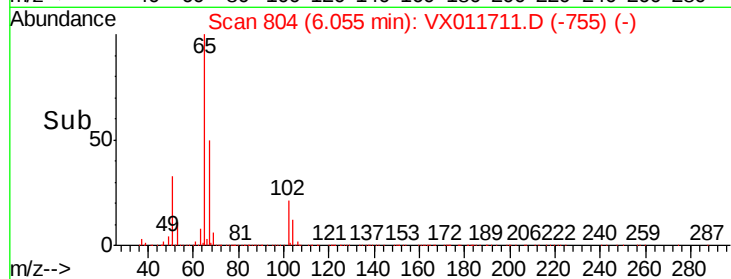
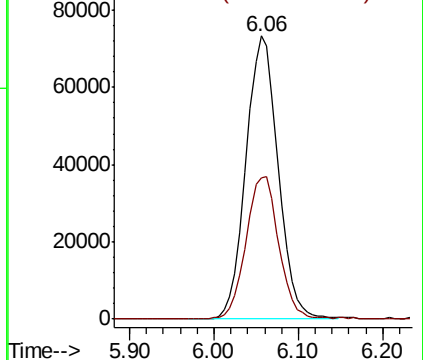
65 100

67 50.7 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. 0.00 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

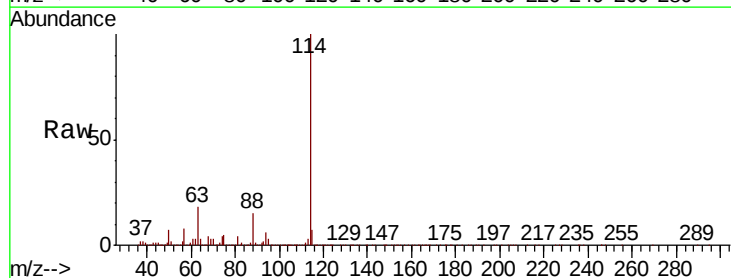
Tgt Ion: 114 Resp: 501660

Ion Ratio Lower Upper

114 100

63 18.3 0.0 37.8

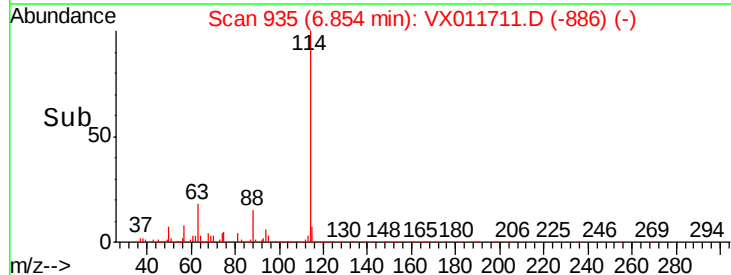
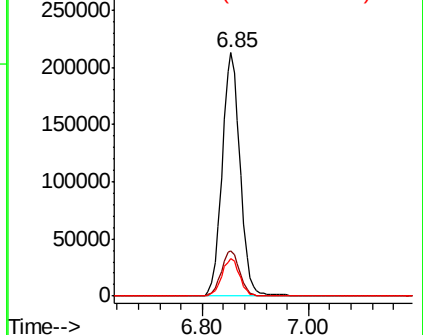
88 15.5 0.0 30.2

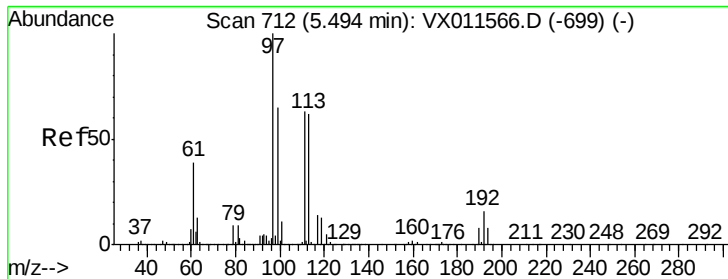


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.668 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

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T4-A2-(2)

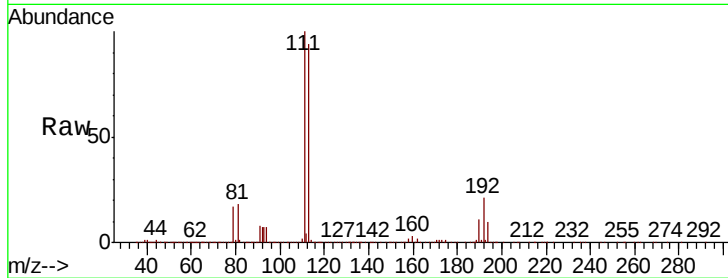
Tgt Ion:113 Resp: 153127

Ion Ratio Lower Upper

113 100

111 103.0 81.1 121.7

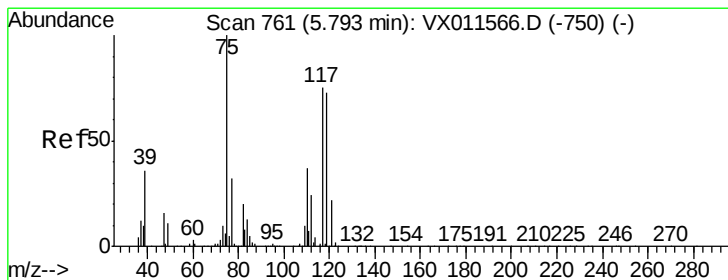
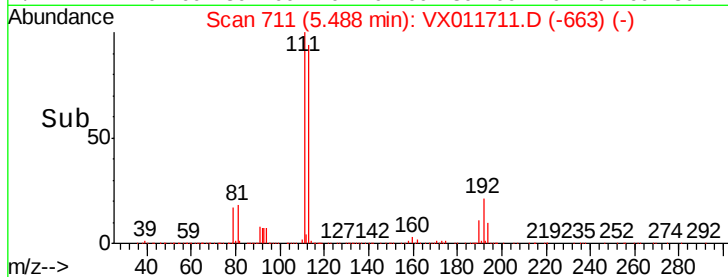
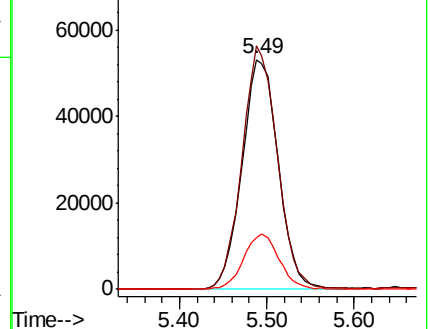
192 24.0 20.8 31.2



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: 5.017 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.15 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

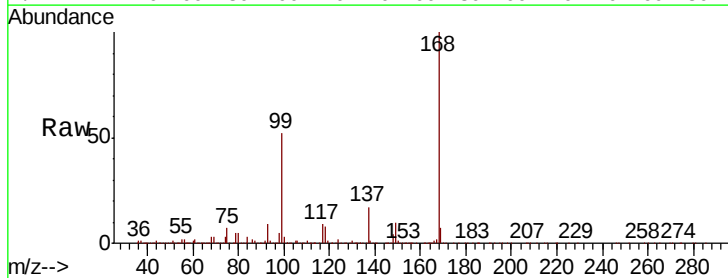
Tgt Ion: 75 Resp: 21519

Ion Ratio Lower Upper

75 100

110 13.3 19.4 58.1#

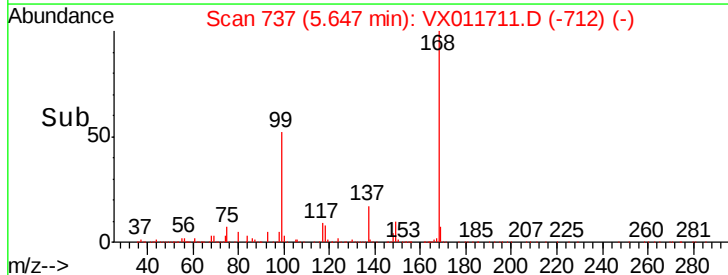
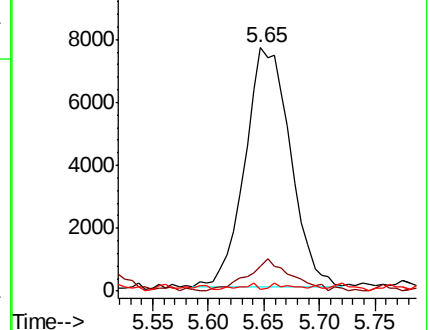
77 1.4 25.1 37.7#

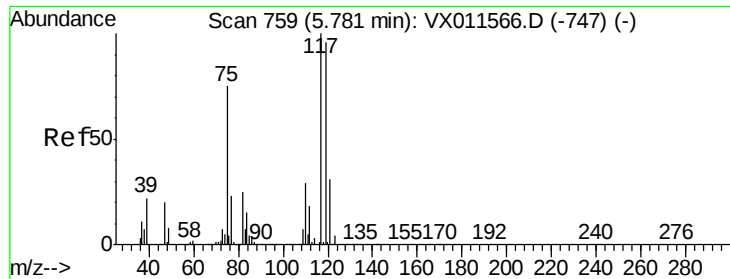


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.660 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

T4-A2-(2)

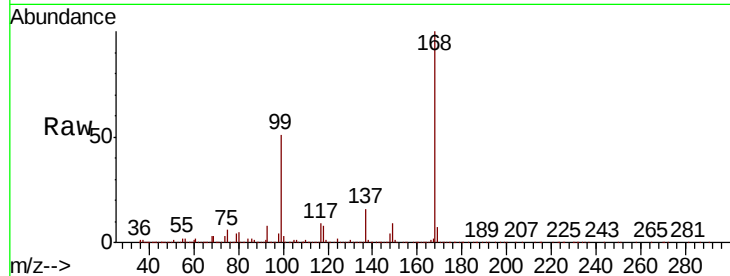
Tgt Ion:117 Resp: 31471

Ion Ratio Lower Upper

117 100

119 5.4 76.9 115.3#

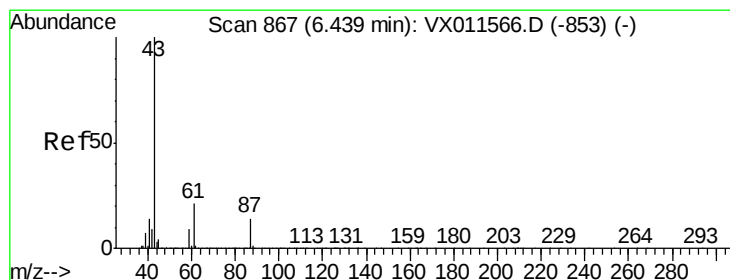
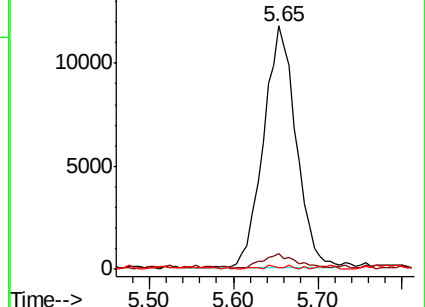
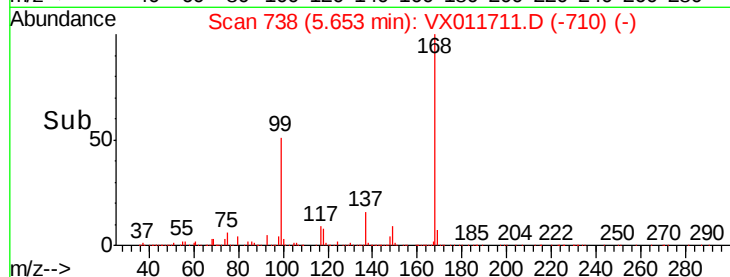
121 0.8 24.8 37.2#



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: 6.793 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

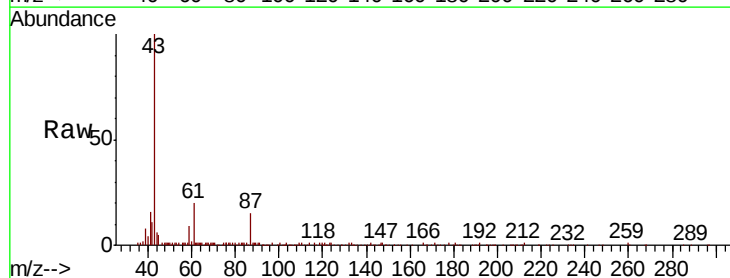
Tgt Ion: 43 Resp: 52298

Ion Ratio Lower Upper

43 100

61 21.0 16.6 24.8

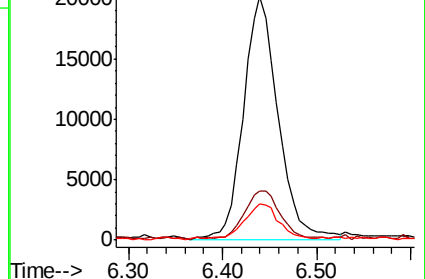
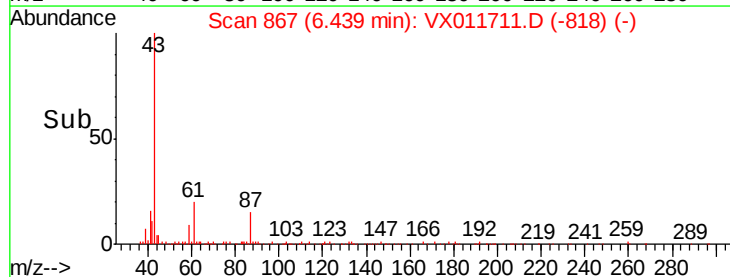
87 15.8 11.4 17.2

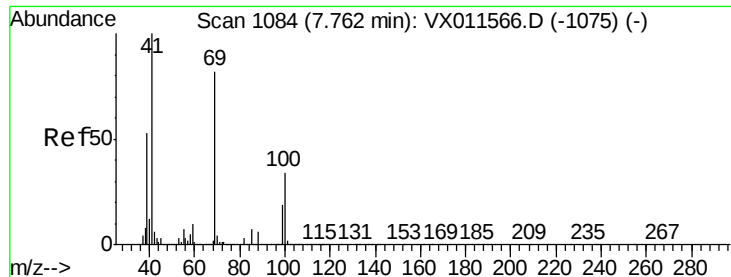


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

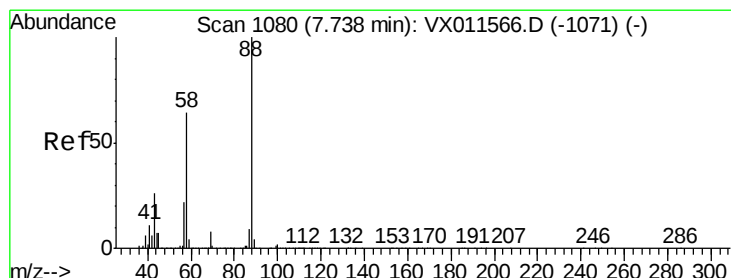
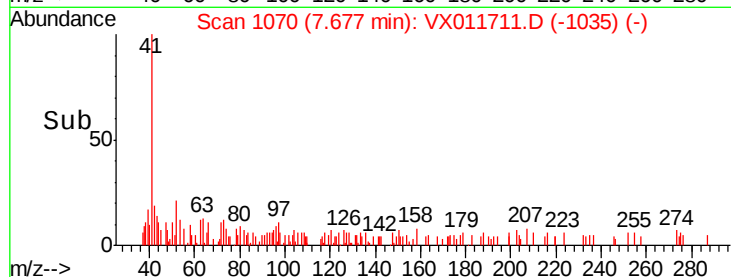
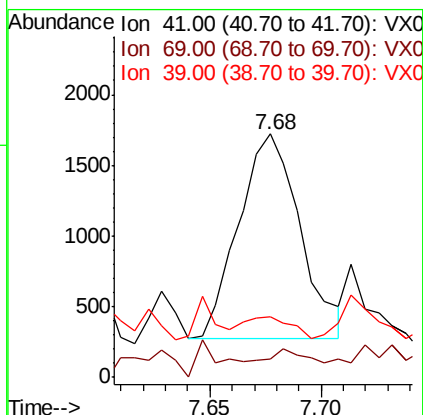
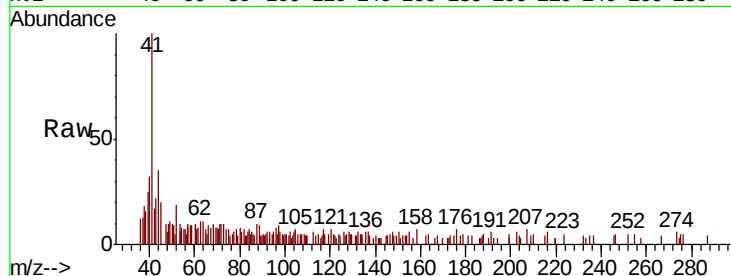




#48
Methyl methacrylate
Concen: 0.724 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011711.D
Acq: 21 Aug 2019 02:23

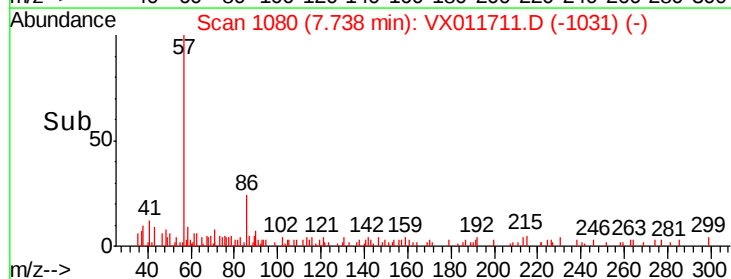
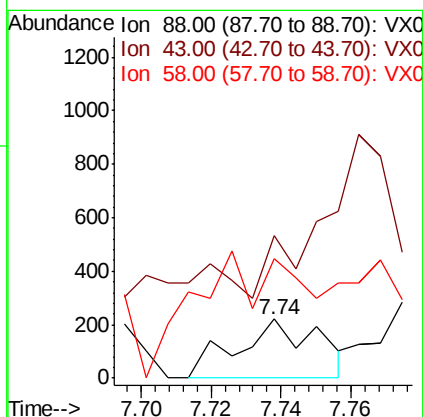
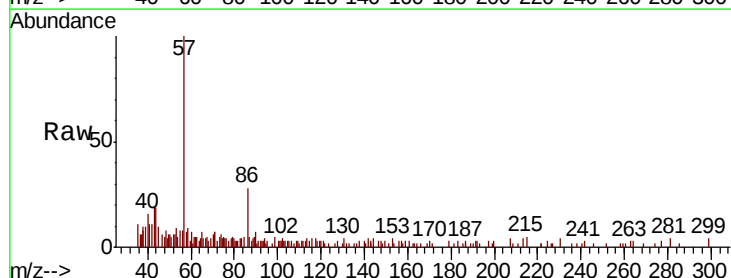
Instrument :
MSVOA_X
ClientSampled :
T4-A2-(2)

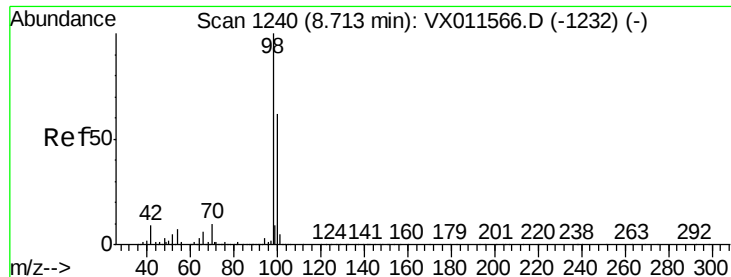
Tgt Ion: 41 Resp: 2759
Ion Ratio Lower Upper
41 100
69 4.6 67.9 101.9#
39 0.0 41.6 62.4#



#49
1,4-Dioxane
Concen: 3.491 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.00 min
Lab File: VX011711.D
Acq: 21 Aug 2019 02:23

Tgt Ion: 88 Resp: 354
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.0#
58 161.6 54.3 81.5#





#50

Toluene-d8

Concen: 58.243 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

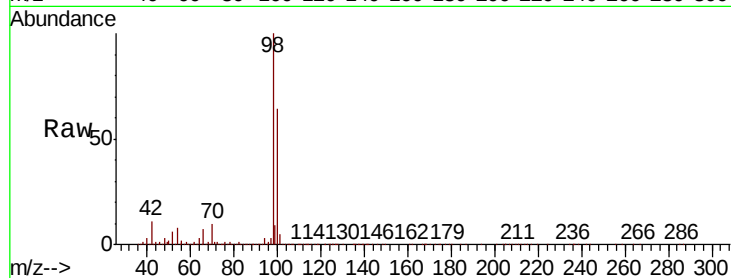
T4-A2-(2)

Tgt Ion: 98 Resp: 595464

Ion Ratio Lower Upper

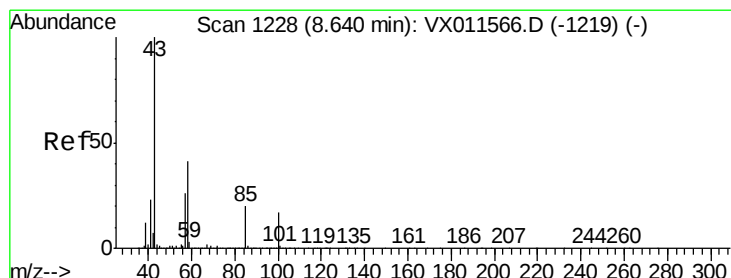
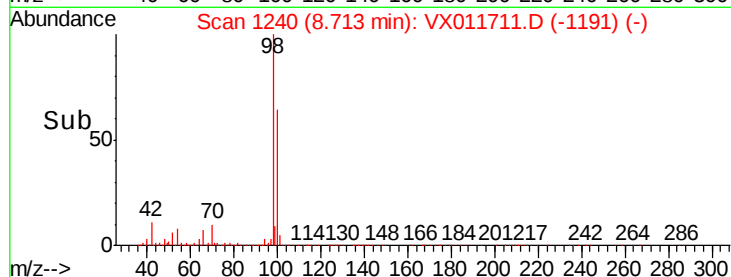
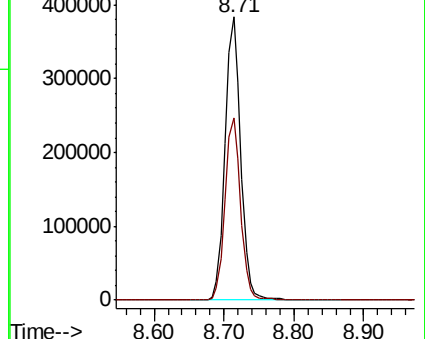
98 100

100 64.2 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 9.187 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011711.D

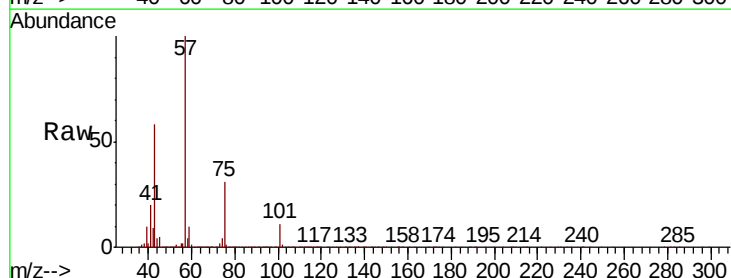
Acq: 21 Aug 2019 02:23

Tgt Ion: 43 Resp: 46297

Ion Ratio Lower Upper

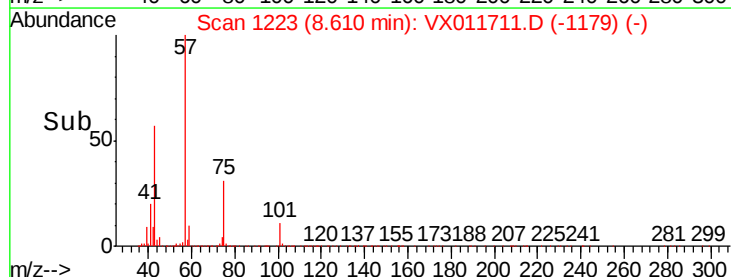
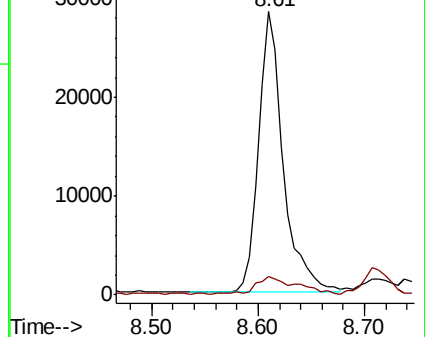
43 100

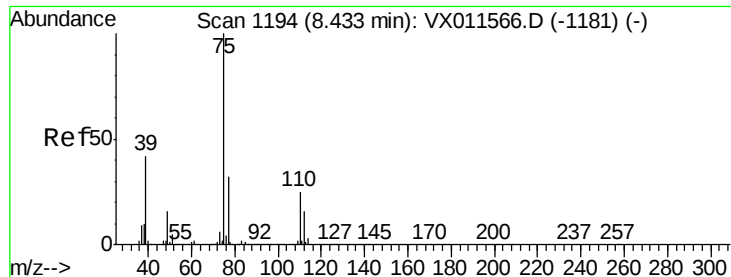
58 11.4 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 4.590 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

T4-A2-(2)

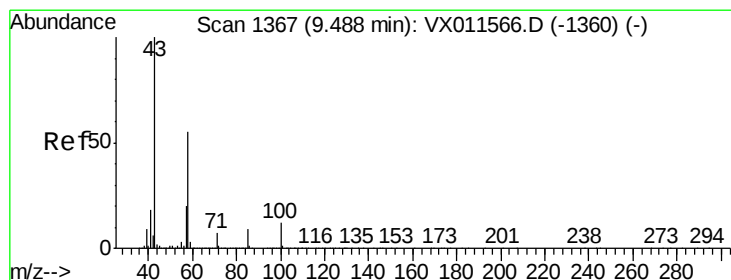
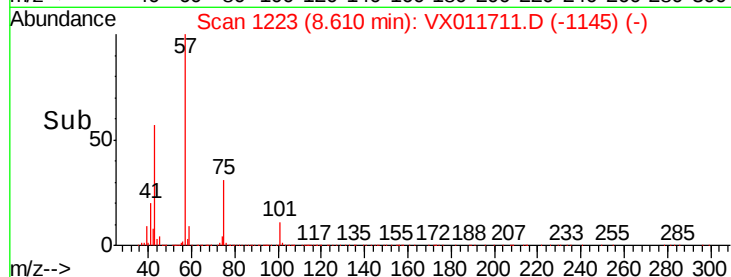
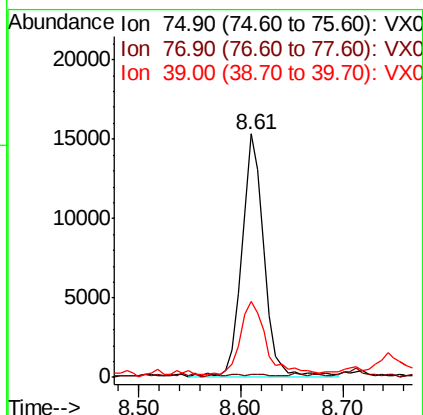
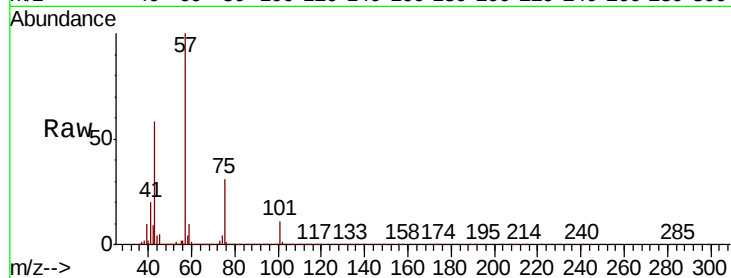
Tgt Ion: 75 Resp: 23124

Ion Ratio Lower Upper

75 100

77 0.6 25.5 38.3#

39 28.7 33.6 50.4#



#59

2-Hexanone

Concen: 12.749 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011711.D

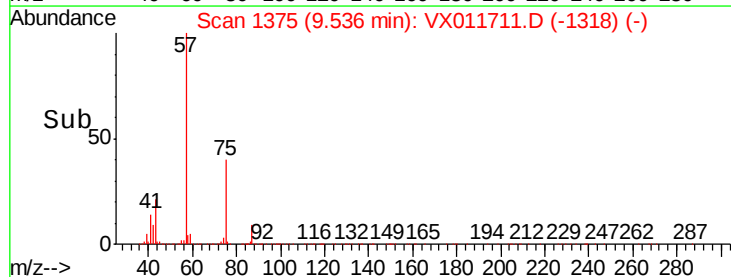
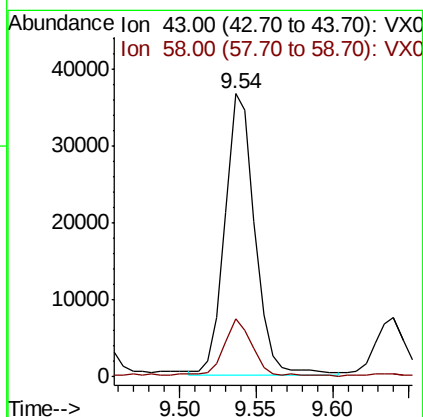
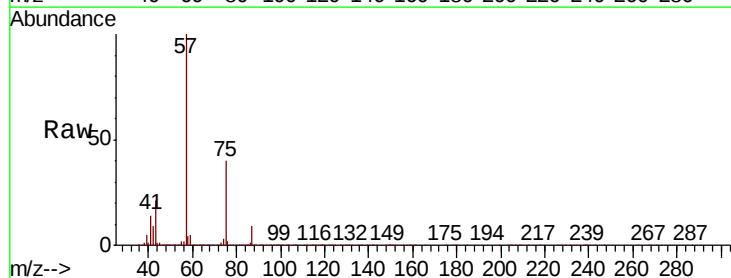
Acq: 21 Aug 2019 02:23

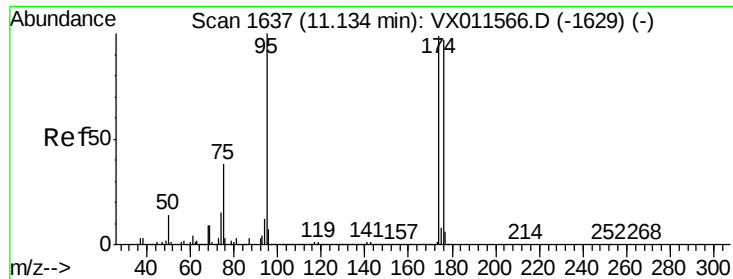
Tgt Ion: 43 Resp: 49543

Ion Ratio Lower Upper

43 100

58 18.8 27.5 82.4#

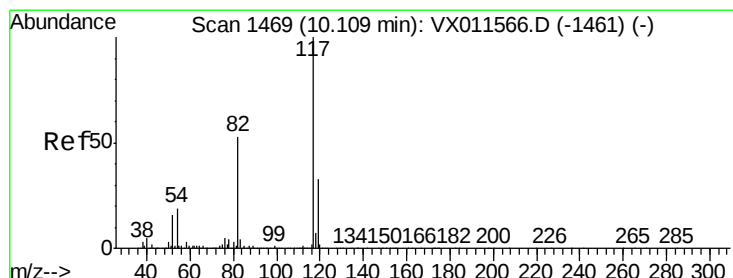
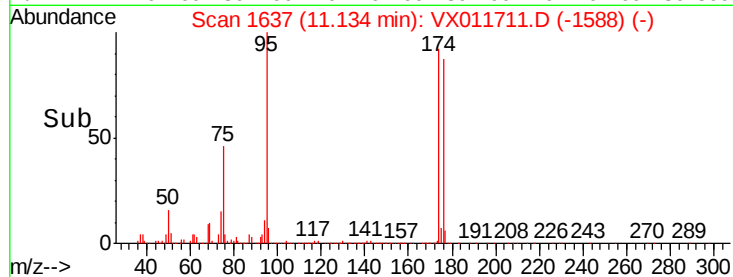
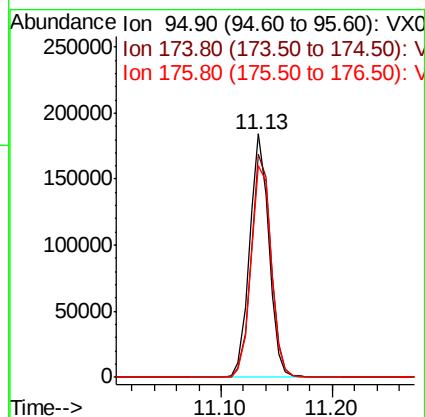
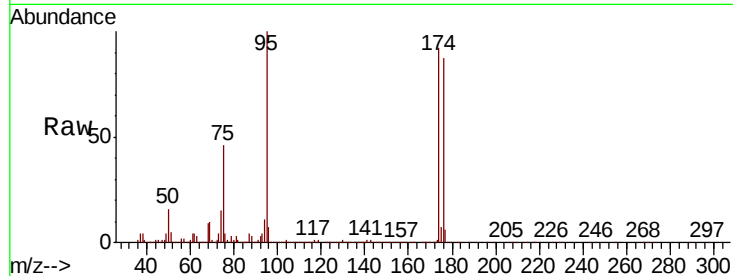




#62
4-Bromofluorobenzene
Concen: 51.191 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011711.D
Acq: 21 Aug 2019 02:23

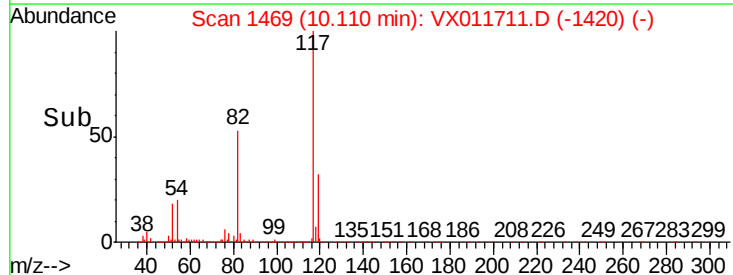
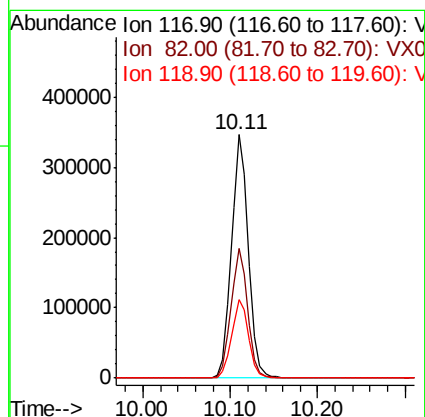
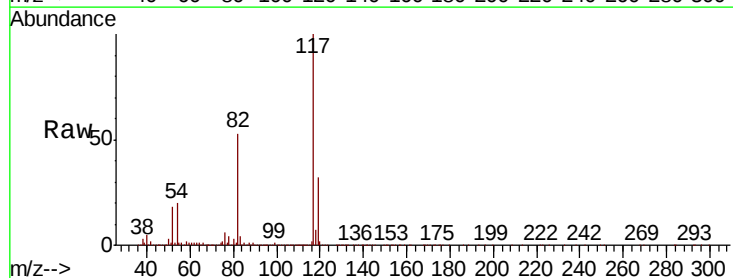
Instrument :
MSVOA_X
ClientSampleId :
T4-A2-(2)

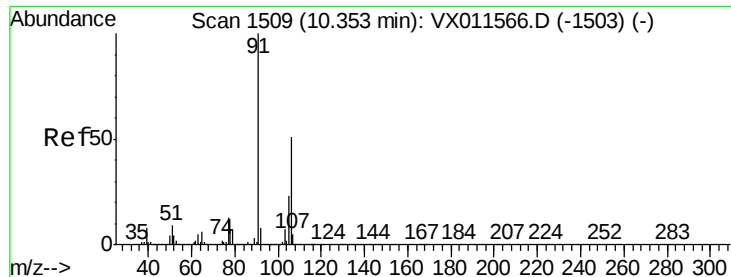
Tgt Ion	Ratio	Lower	Upper
95	100		
174	94.9	0.0	200.6
176	91.7	0.0	196.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011711.D
Acq: 21 Aug 2019 02:23

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.0	63.0
119	32.2	26.5	39.7





#68

m/p-Xylenes

Concen: 0.273 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.01 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

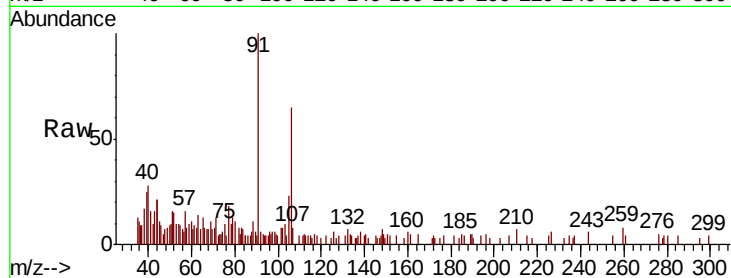
T4-A2-(2)

Tgt Ion:106 Resp: 1725

Ion Ratio Lower Upper

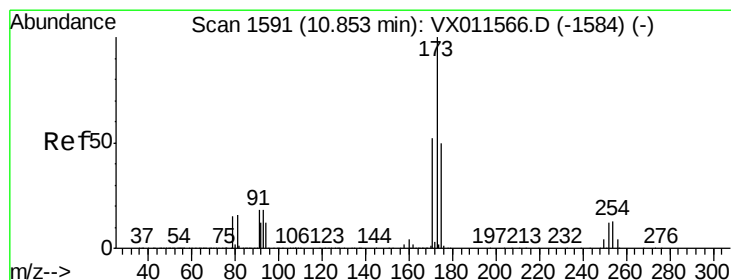
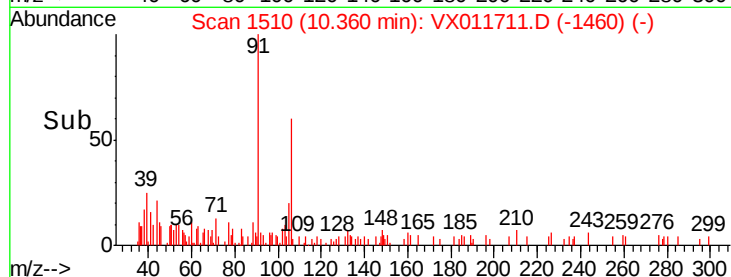
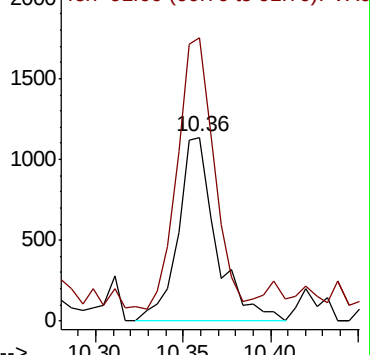
106 100

91 141.7 156.0 234.0#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#71

Bromoform

Concen: 3.311 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

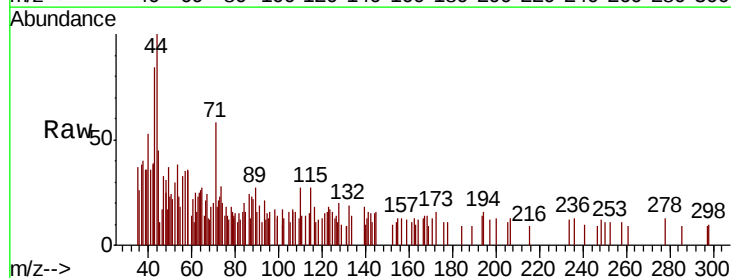
Tgt Ion:173 Resp: 76

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

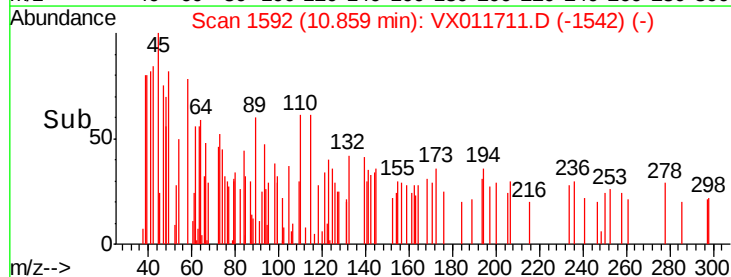
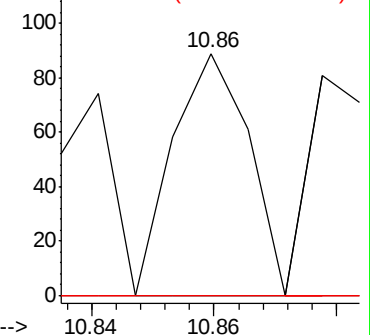
254 0.0 0.1 0.1#

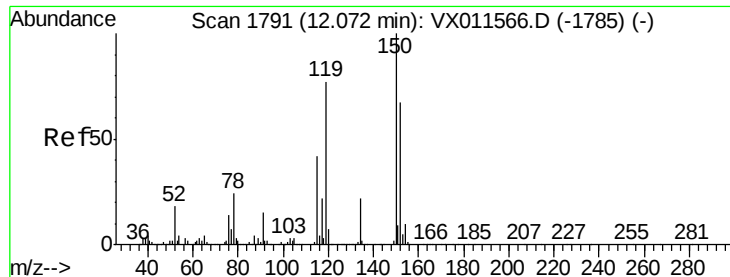


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Instrument :

MSVOA_X

ClientSampleId :

T4-A2-(2)

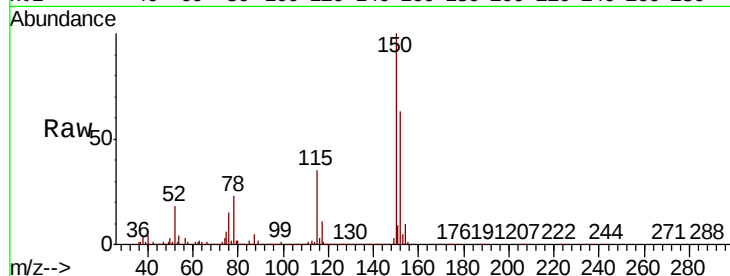
Tgt Ion:152 Resp: 232874

Ion Ratio Lower Upper

152 100

115 54.0 37.3 111.9

150 157.9 0.0 346.2

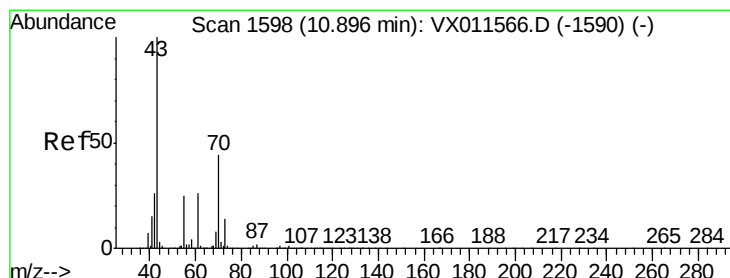
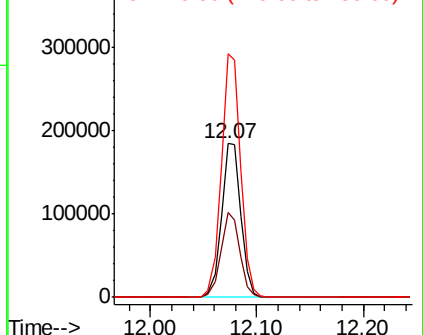
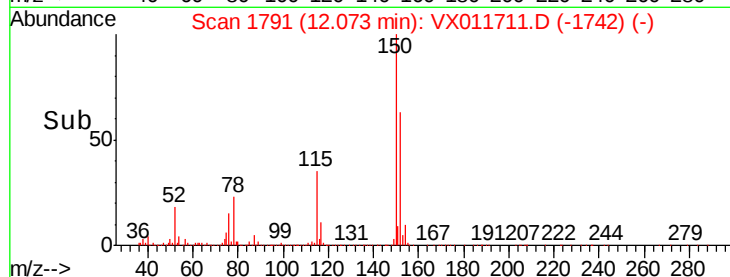


Abundance

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-ethyl acetate

Concen: 0.549 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011711.D

Acq: 21 Aug 2019 02:23

Tgt Ion: 43 Resp: 3528

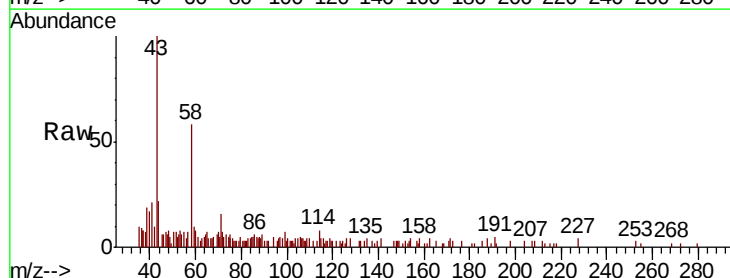
Ion Ratio Lower Upper

43 100

70 6.5 34.7 52.1#

55 7.8 19.6 29.4#

61 0.0 19.9 29.9#



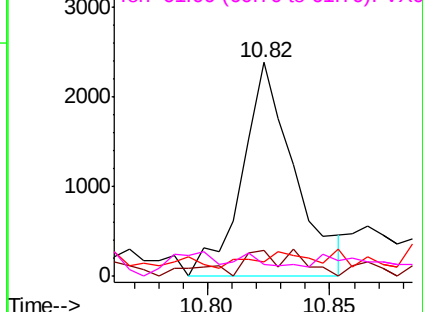
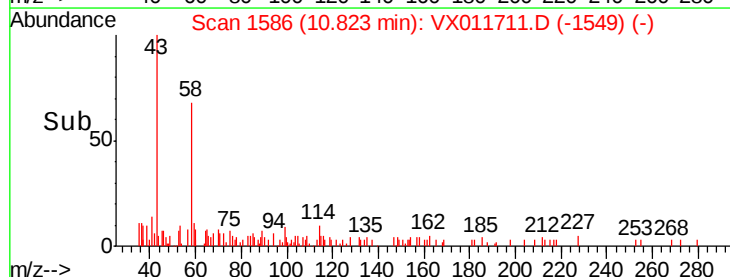
Abundance

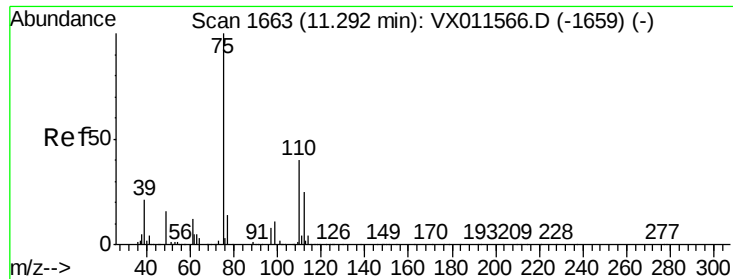
Ion 43.00 (42.70 to 43.70): VX0

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

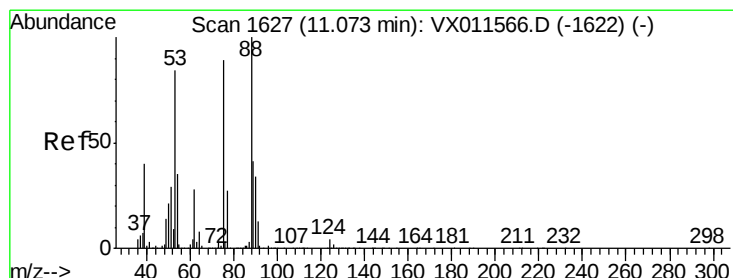
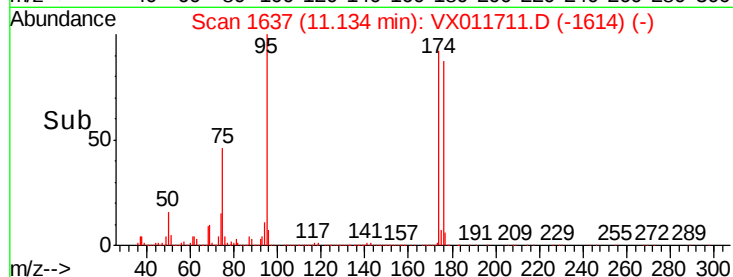
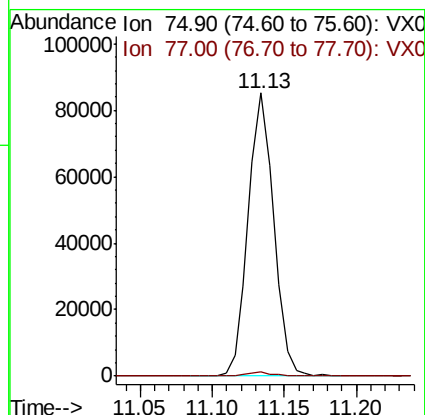
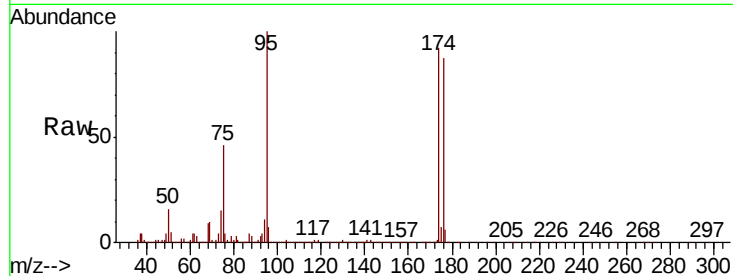




#76
 1,2,3-Trichloropropane
 Concen: 23.617 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011711.D
 Acq: 21 Aug 2019 02:23

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-A2-(2)

Tgt Ion: 75 Resp: 104289
 Ion Ratio Lower Upper
 75 100
 77 1.6 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.723 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011711.D
 Acq: 21 Aug 2019 02:23

Tgt Ion: 75 Resp: 104289
 Ion Ratio Lower Upper
 75 100
 53 0.1 77.4 116.0#
 89 0.0 37.3 55.9#

