

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112119\
 Data File : VX013500.D
 Acq On : 21 Nov 2019 14:03
 Operator : JC/SP
 Sample : K5967-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 22 01:07:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	660336	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1064994	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	950359	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	442758	50.00	ug/l	0.00

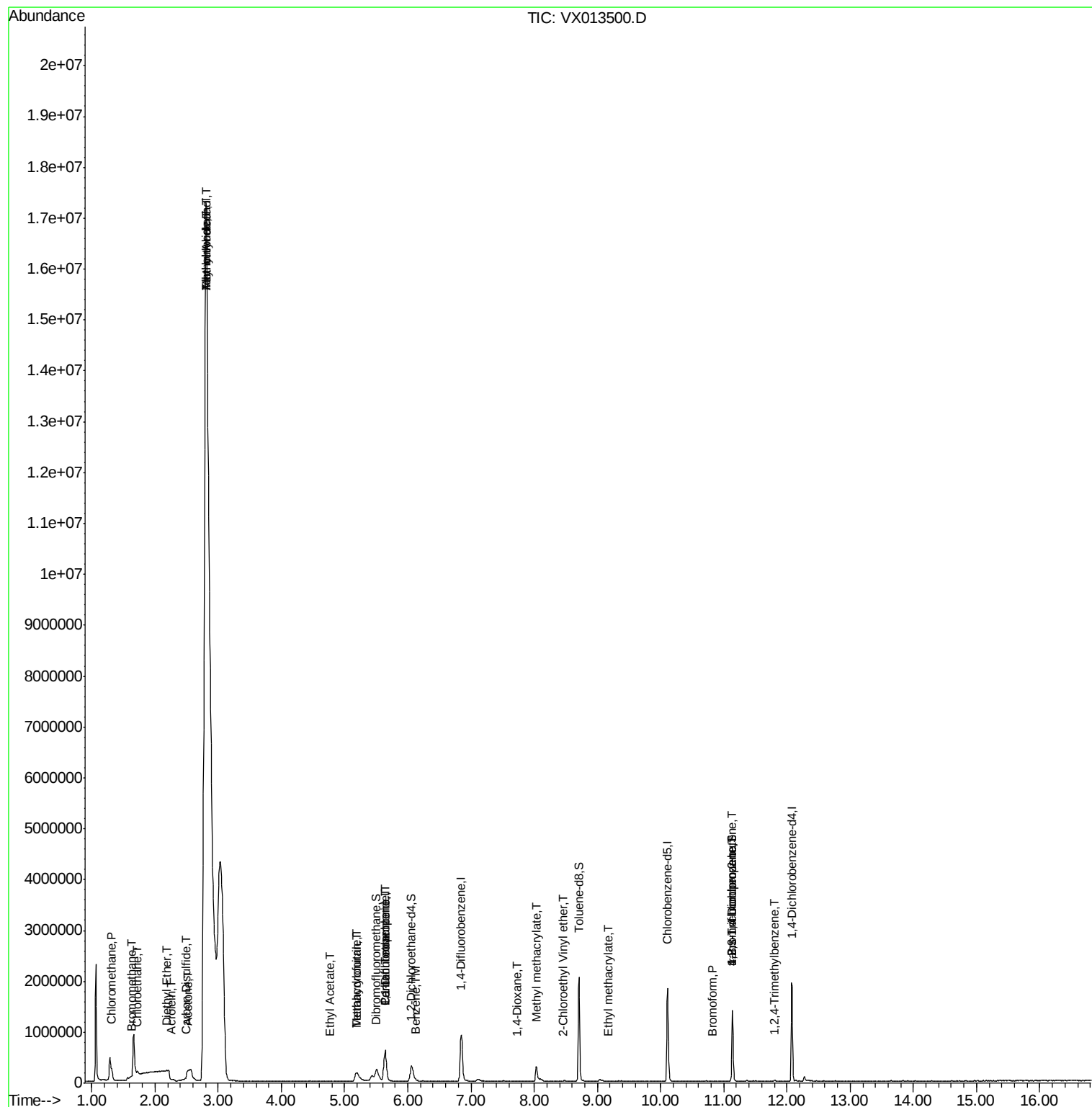
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	373477	47.74	ug/l	0.01
Spiked Amount			Recovery	=	95.48%	
35) Dibromofluoromethane	5.51	113	269128	40.29	ug/l	0.02
Spiked Amount			Recovery	=	80.58%	
50) Toluene-d8	8.71	98	1280773	50.86	ug/l	0.00
Spiked Amount			Recovery	=	101.72%	
62) 4-Bromofluorobenzene	11.14	95	427577	47.05	ug/l	0.00
Spiked Amount			Recovery	=	94.10%	

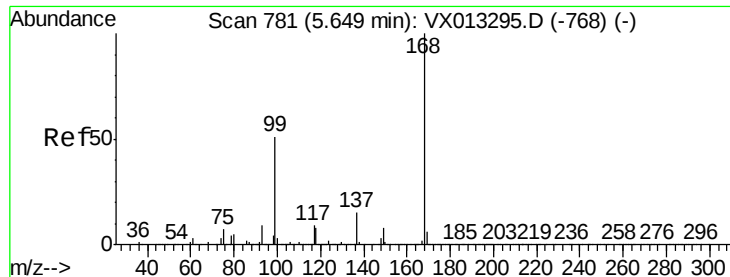
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	93945	11.386	ug/l	99
5) Bromomethane	1.62	94	7053	1.077	ug/l	91
6) Chloroethane	1.72	64	65670	11.308	ug/l #	53
8) Diethyl Ether	2.17	74	1883	0.384	ug/l #	1
11) Tert butyl alcohol	2.81	59	1659498	804.832	ug/l #	73
13) Acrolein	2.25	56	274	0.245	ug/l #	63
14) Allyl chloride	2.82	41	42758936	3885.189	ug/l #	40
16) Acetone	2.52	43	687387	176.162	ug/l	99
17) Carbon Disulfide	2.48	76	25993	1.603	ug/l #	91
18) Methyl Acetate	2.81	43	19014542	1765.080	ug/l	99
29) Tetrahydrofuran	5.19	42	248419	70.422	ug/l	97
36) 1,1-Dichloropropene	5.64	75	47655	5.216	ug/l #	51
37) Ethyl Acetate	4.77	43	2329	0.206	ug/l #	73
38) Carbon Tetrachloride	5.64	117	59382	6.647	ug/l #	15
40) Benzene	6.12	78	6521	0.229	ug/l	96
41) Methacrylonitrile	5.19	41	141087	22.297	ug/l #	46
48) Methyl methacrylate	8.03	41	34020	3.877	ug/l #	51
49) 1,4-Dioxane	7.74	88	237	1.179	ug/l #	70
56) Ethyl methacrylate	9.17	69	536	1.605	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.45	63	1071	0.214	ug/l	97
71) Bromoform	10.82	173	356	3.253	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	212830	23.666	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	212830	60.916	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	11754	0.479	ug/l	89

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

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Quant Title : SW846 8260
QLast Update : Sat Nov 02 07:06:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.01 min

Lab File: VX013500.D

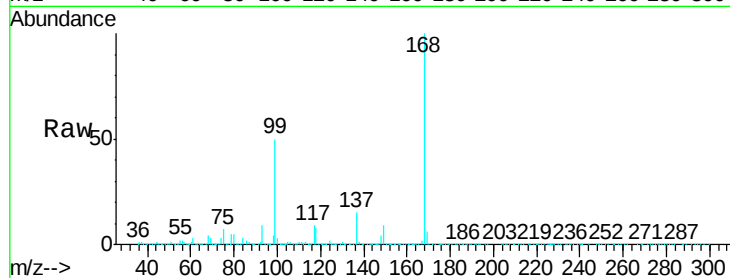
Acq: 21 Nov 2019 14:03

Tgt Ion: 168 Resp: 660336

Ion Ratio Lower Upper

168 100

99 49.5 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

250000

200000

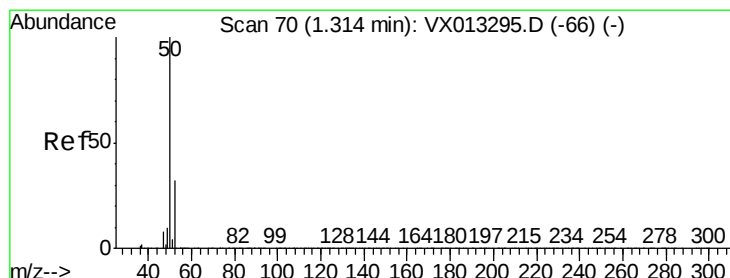
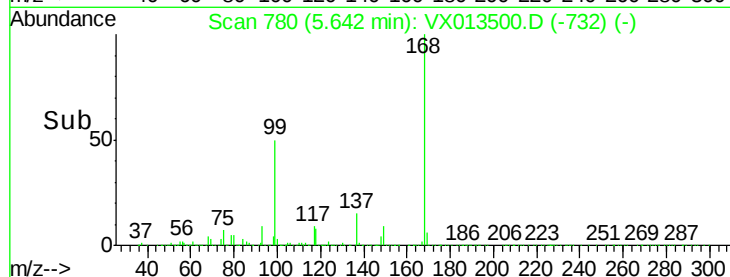
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 11.386 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013500.D

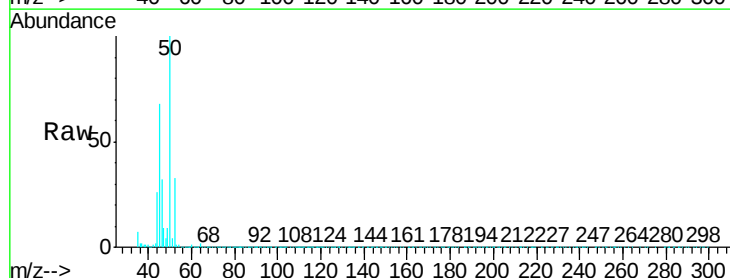
Acq: 21 Nov 2019 14:03

Tgt Ion: 50 Resp: 93945

Ion Ratio Lower Upper

50 100

52 32.3 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

80000

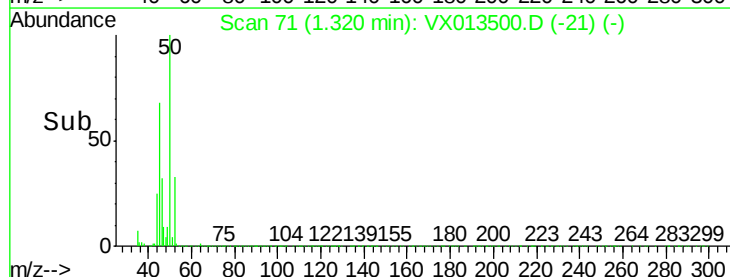
60000

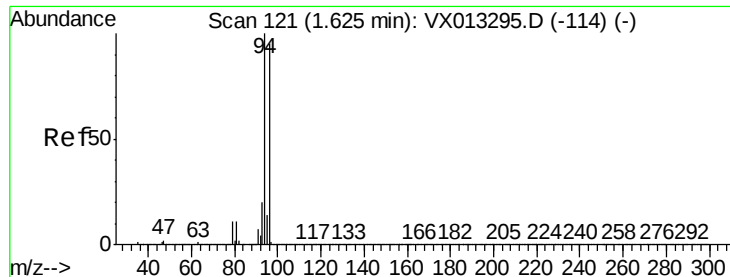
40000

20000

0

Time-->





#5

Bromomethane

Concen: 1.077 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX013500.D

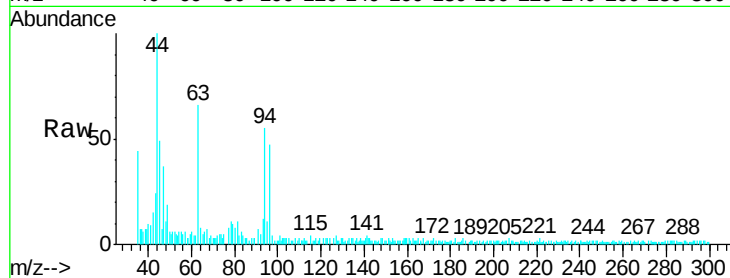
Acq: 21 Nov 2019 14:03

Tgt Ion: 94 Resp: 7053

Ion Ratio Lower Upper

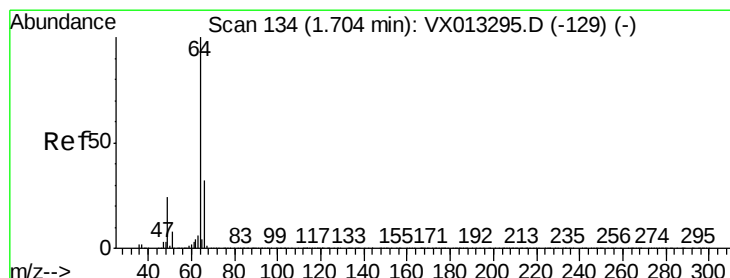
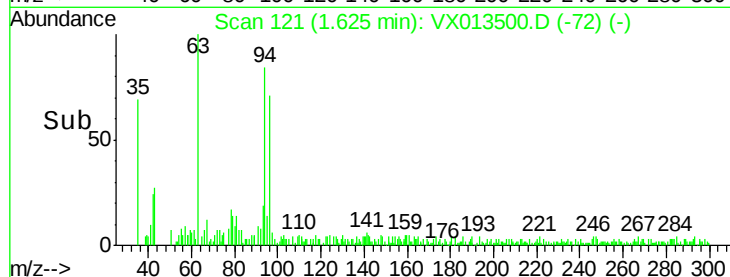
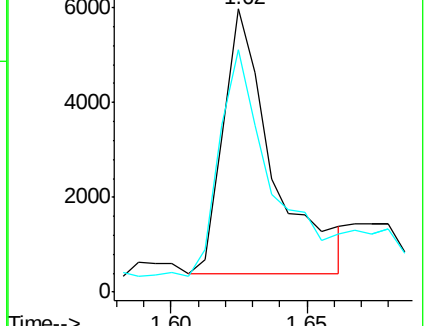
94 100

96 86.1 75.8 113.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 11.308 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.02 min

Lab File: VX013500.D

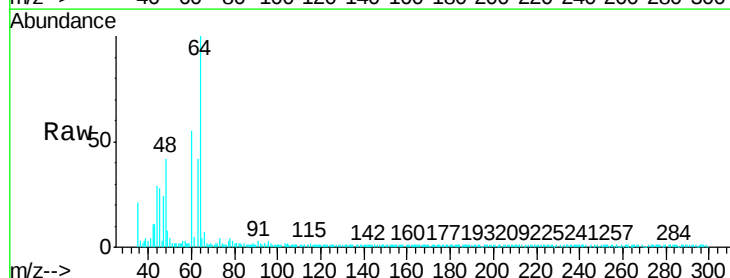
Acq: 21 Nov 2019 14:03

Tgt Ion: 64 Resp: 65670

Ion Ratio Lower Upper

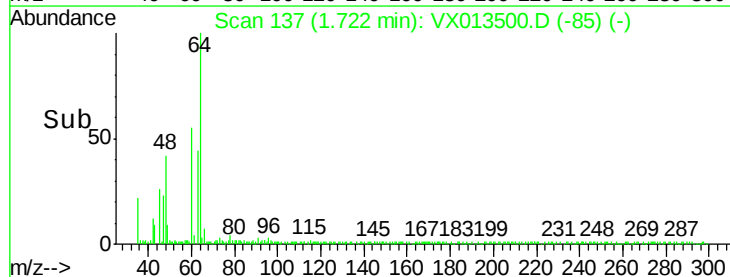
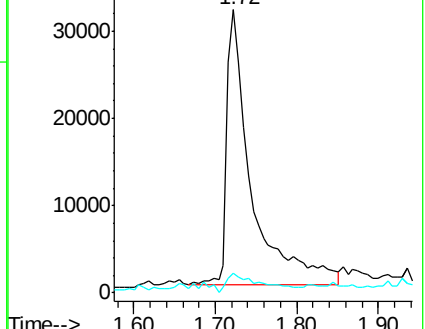
64 100

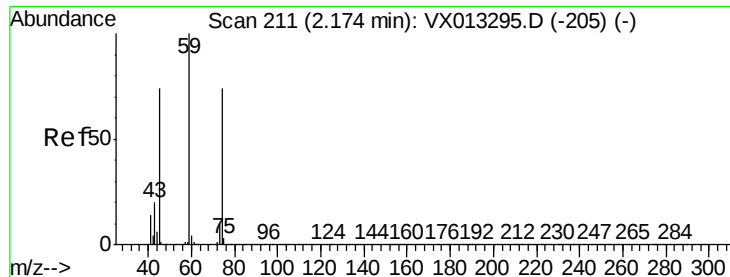
66 5.6 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.384 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX013500.D

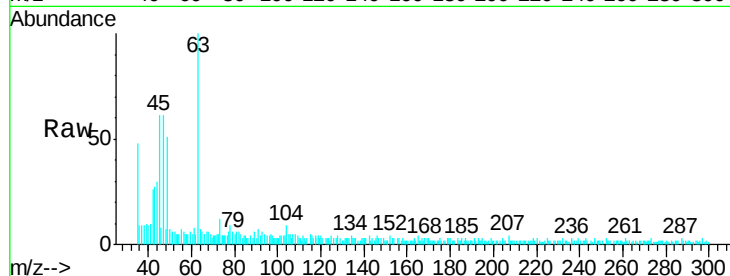
Acq: 21 Nov 2019 14:03

Tgt Ion: 74 Resp: 1883

Ion Ratio Lower Upper

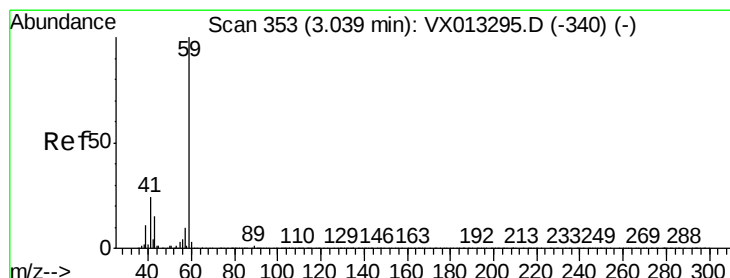
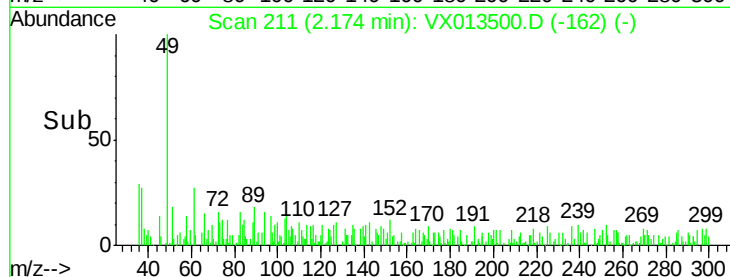
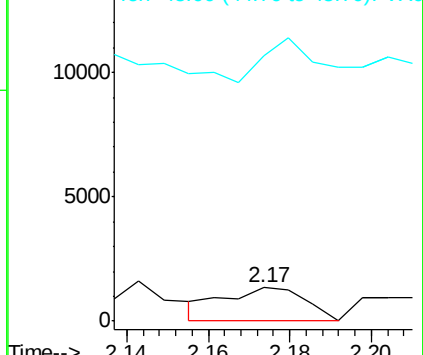
74 100

45 0.0 48.5 145.6#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 804.832 ug/l

RT: 2.81 min Scan# 315

Delta R.T. -0.23 min

Lab File: VX013500.D

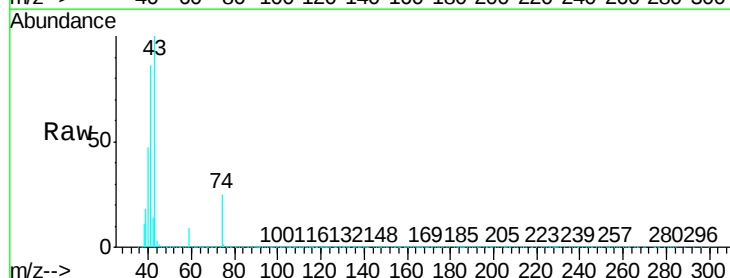
Acq: 21 Nov 2019 14:03

Tgt Ion: 59 Resp: 1659498

Ion Ratio Lower Upper

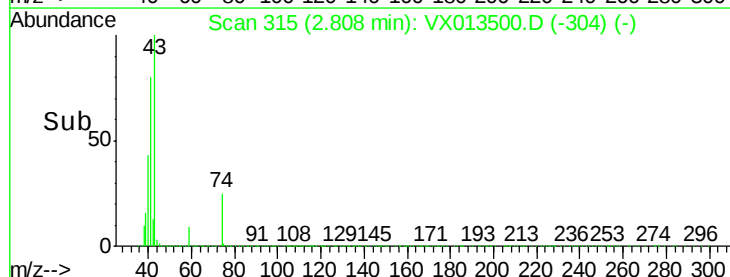
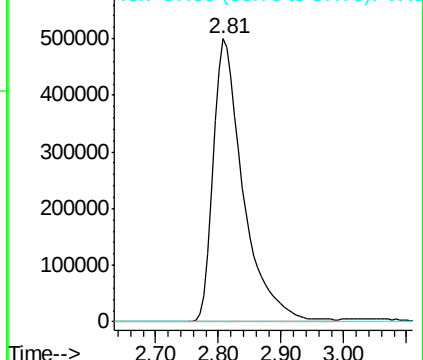
59 100

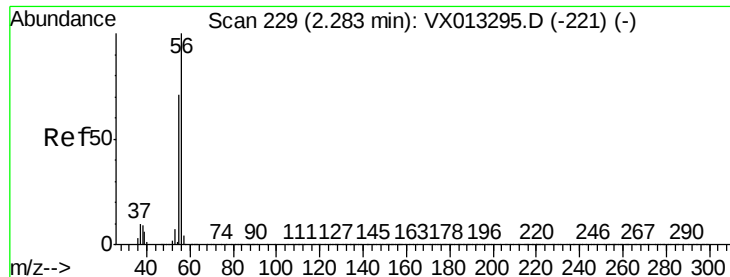
57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.245 ug/l

RT: 2.25 min Scan# 224

Delta R.T. -0.03 min

Lab File: VX013500.D

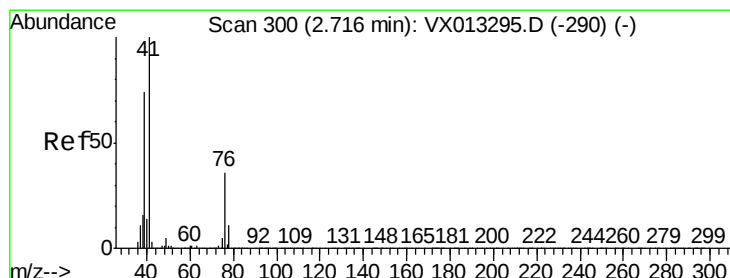
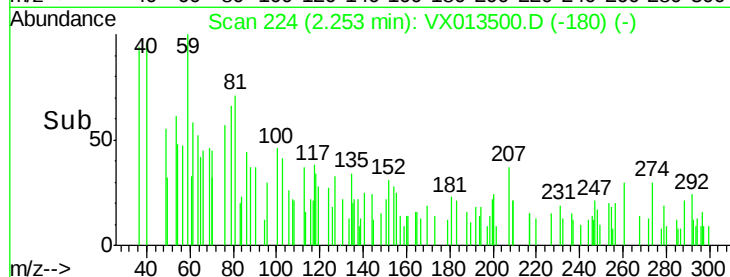
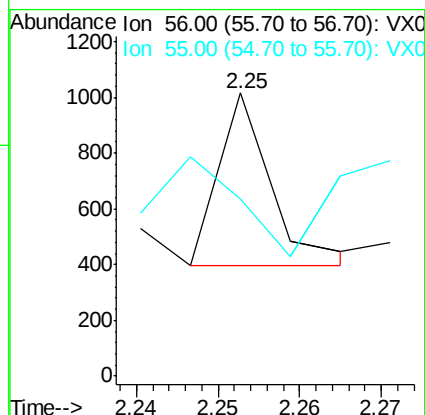
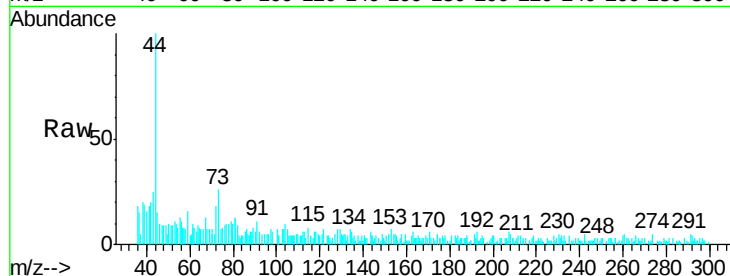
Acq: 21 Nov 2019 14:03

Tgt Ion: 56 Resp: 274

Ion Ratio Lower Upper

56 100

55 102.2 57.4 86.0#



#14

Allyl chloride

Concen: 3885.189 ug/l

RT: 2.82 min Scan# 317

Delta R.T. 0.10 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

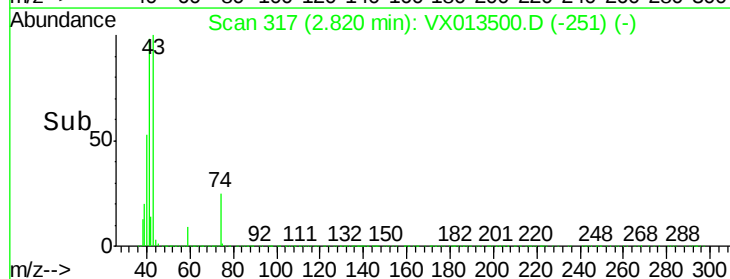
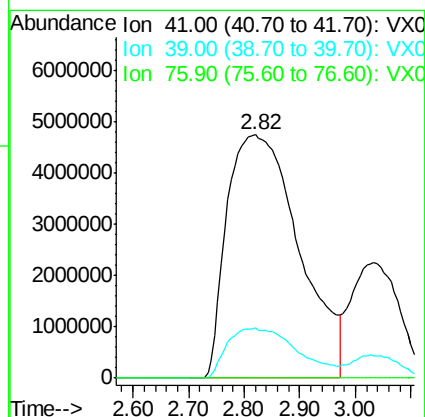
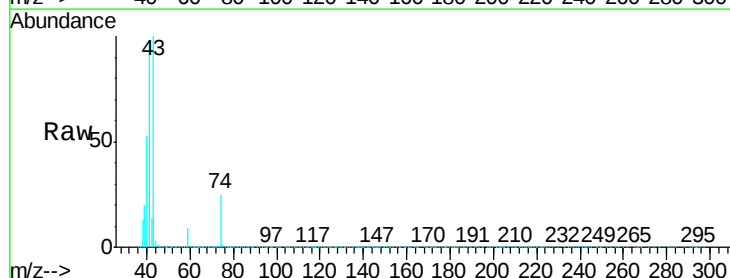
Tgt Ion: 41 Resp: 42758936

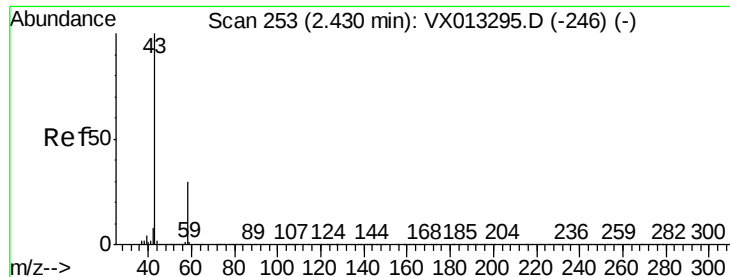
Ion Ratio Lower Upper

41 100

39 20.2 55.8 83.8#

76 0.1 26.4 39.6#





#16

Acetone

Concen: 176.162 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.09 min

Lab File: VX013500.D

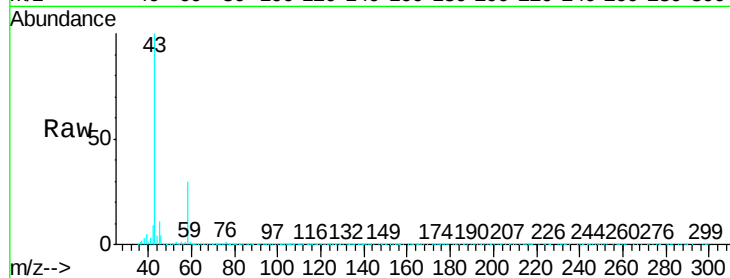
Acq: 21 Nov 2019 14:03

Tgt Ion: 43 Resp: 687387

Ion Ratio Lower Upper

43 100

58 29.8 24.3 36.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

6000000

5000000

4000000

3000000

2000000

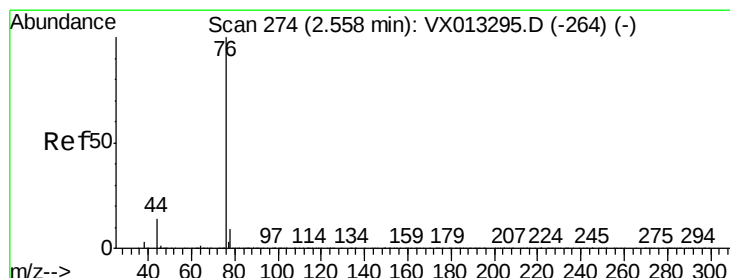
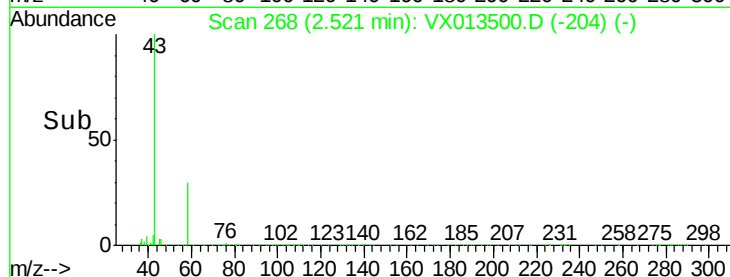
1000000

0

Time-->

2.40 2.60

2.52



#17

Carbon Disulfide

Concen: 1.603 ug/l

RT: 2.48 min Scan# 261

Delta R.T. -0.08 min

Lab File: VX013500.D

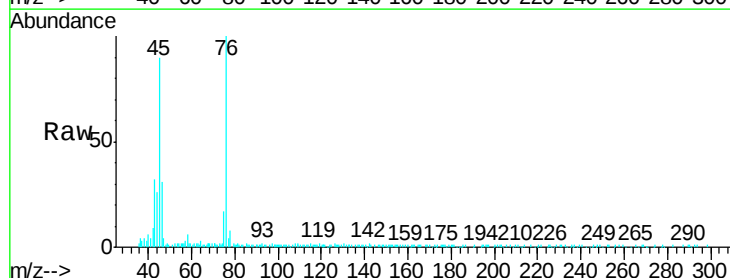
Acq: 21 Nov 2019 14:03

Tgt Ion: 76 Resp: 25993

Ion Ratio Lower Upper

76 100

78 5.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

15000

10000

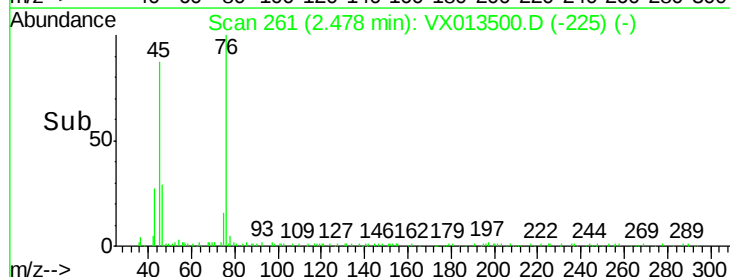
5000

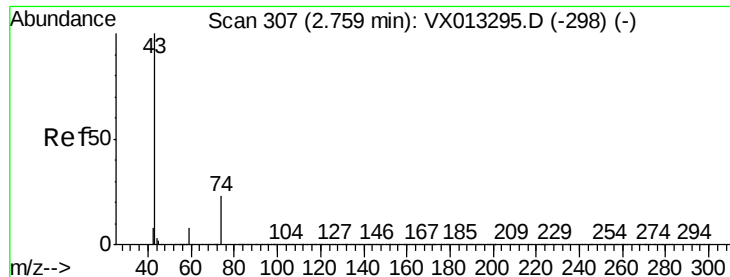
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Time-->

2.40 2.50 2.60

2.48





#18

Methyl Acetate

Concen: 1765.080 ug/l

RT: 2.81 min Scan# 315

Delta R.T. 0.05 min

Lab File: VX013500.D

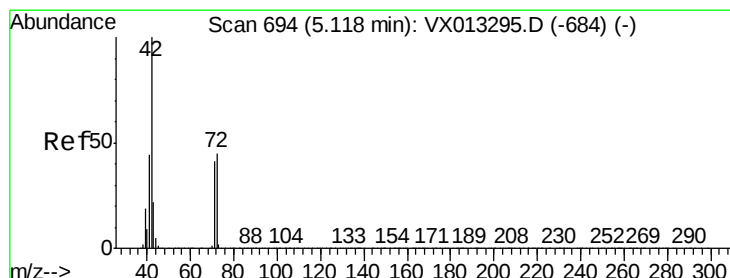
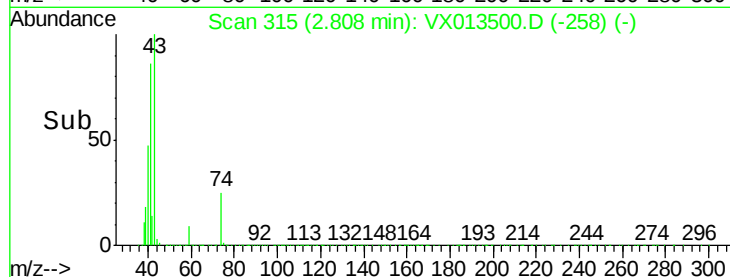
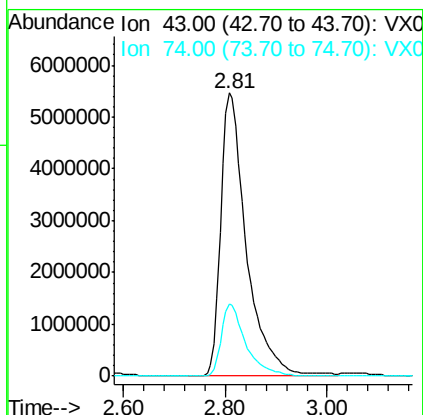
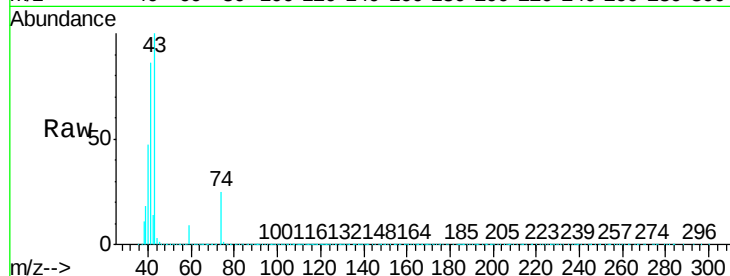
Acq: 21 Nov 2019 14:03

Tgt Ion: 43 Resp:19014542

Ion Ratio Lower Upper

43 100

74 24.4 19.0 28.6



#29

Tetrahydrofuran

Concen: 70.422 ug/l

RT: 5.19 min Scan# 705

Delta R.T. 0.07 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

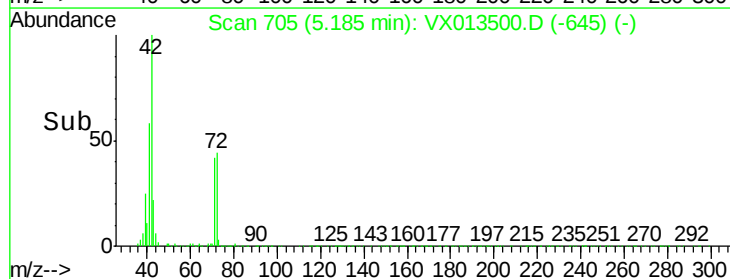
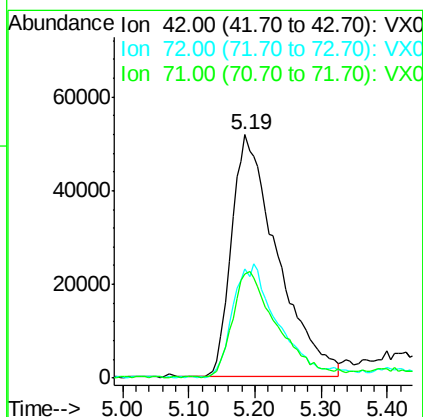
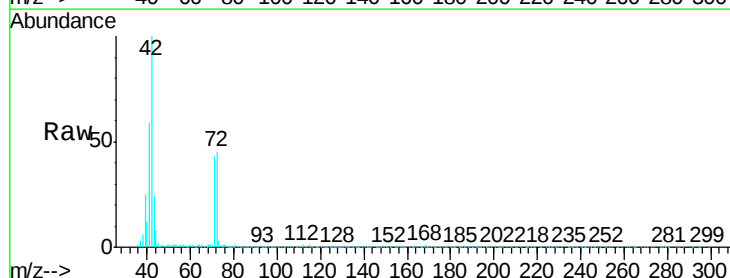
Tgt Ion: 42 Resp: 248419

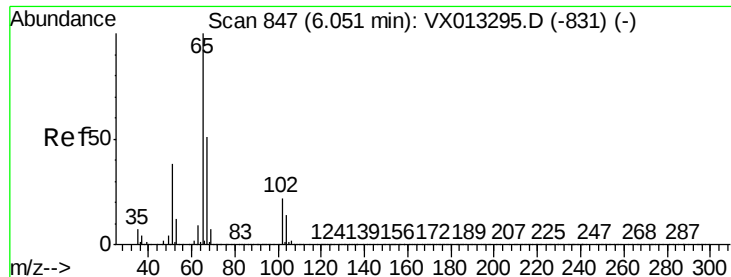
Ion Ratio Lower Upper

42 100

72 47.5 35.8 53.8

71 42.4 33.4 50.0





#33

1,2-Dichloroethane-d4

Concen: 47.741 ug/l

RT: 6.06 min Scan# 849

Delta R.T. 0.01 min

Lab File: VX013500.D

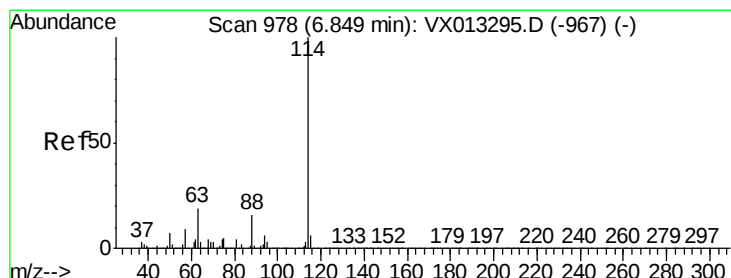
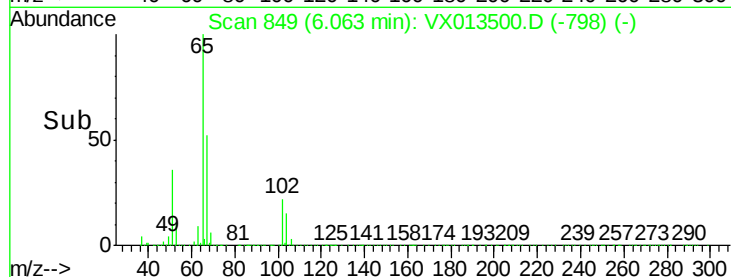
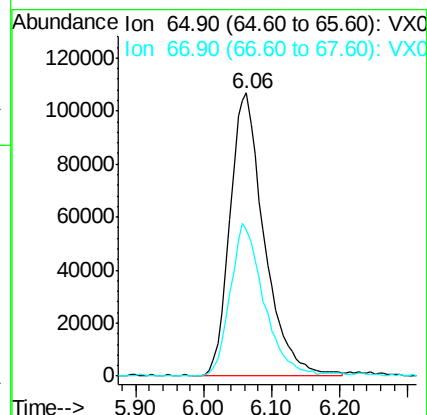
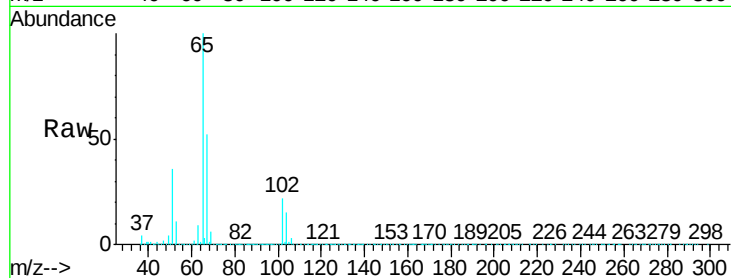
Acq: 21 Nov 2019 14:03

Tgt Ion: 65 Resp: 373477

Ion Ratio Lower Upper

65 100

67 52.9 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

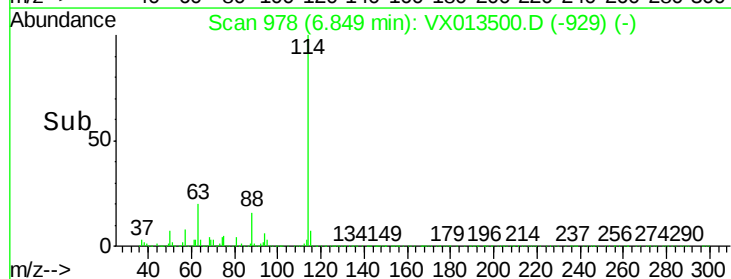
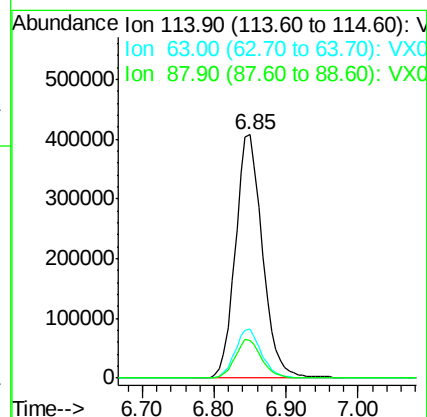
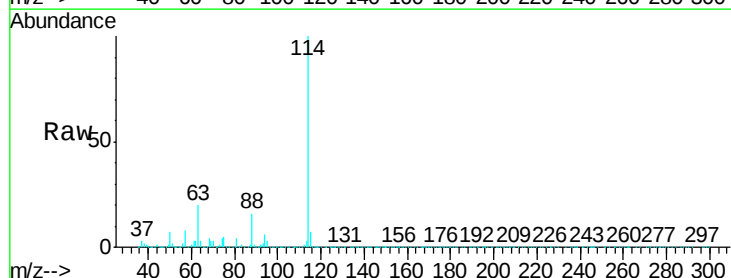
Tgt Ion: 114 Resp: 1064994

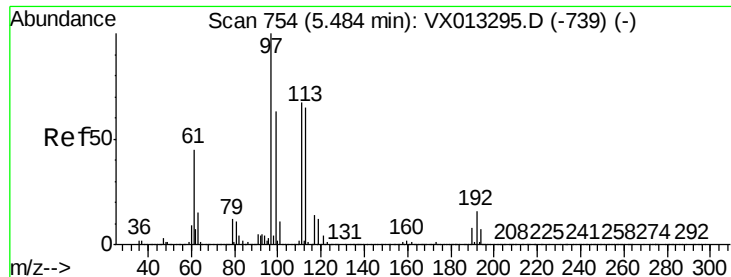
Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.4

88 15.7 0.0 32.2





#35

Dibromofluoromethane

Concen: 40.290 ug/l

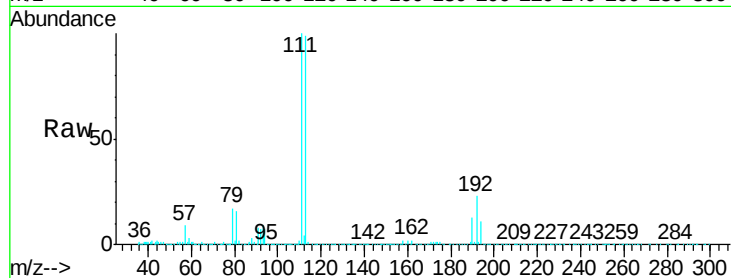
RT: 5.51 min Scan# 758

Delta R.T. 0.02 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

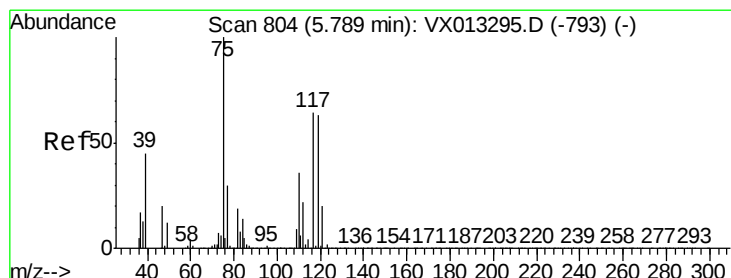
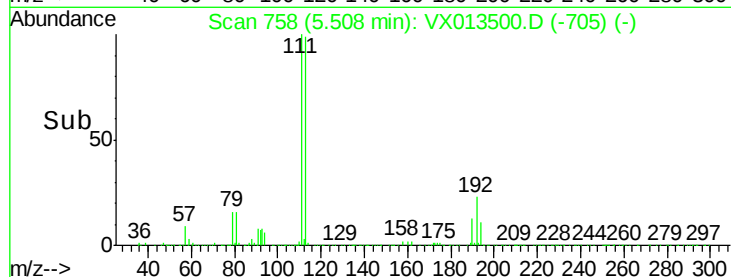
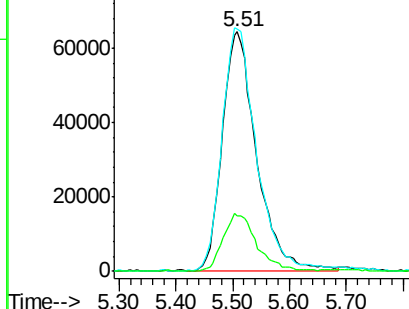
Tgt Ion:	113	Resp:	269128
Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.9	122.9
192	23.7	19.1	28.7



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: 5.216 ug/l

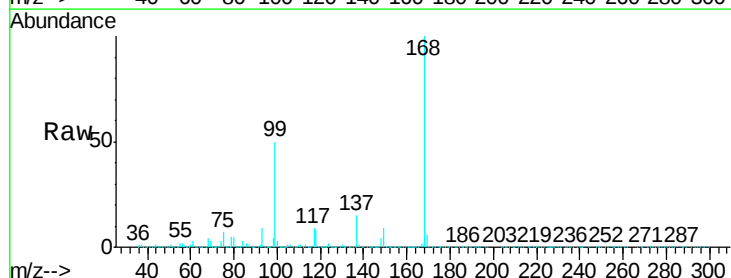
RT: 5.64 min Scan# 780

Delta R.T. -0.15 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

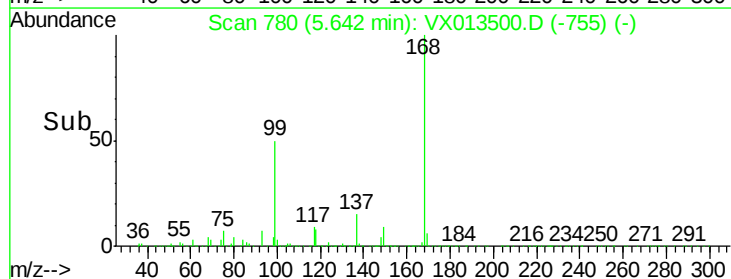
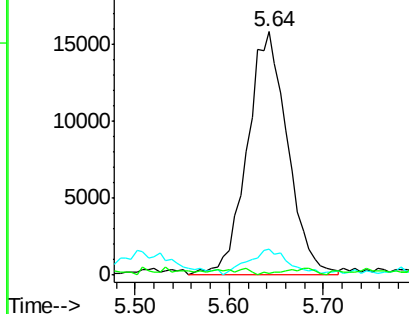
Tgt Ion:	75	Resp:	47655
Ion	Ratio	Lower	Upper
75	100		
110	10.9	18.1	54.1#
77	0.0	25.0	37.4#

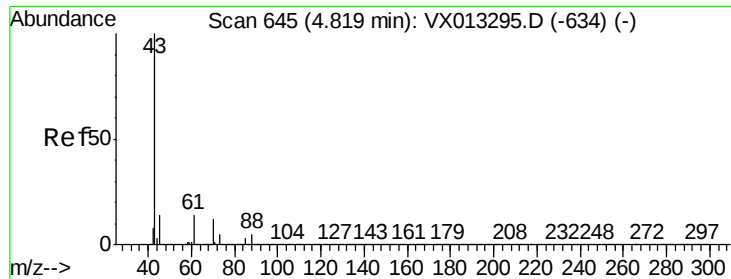


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

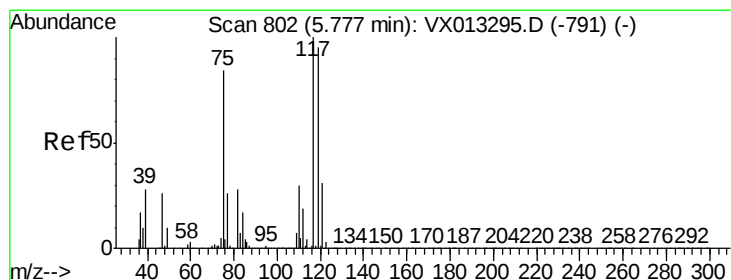
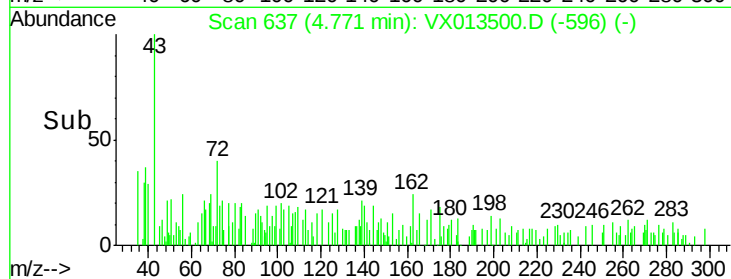
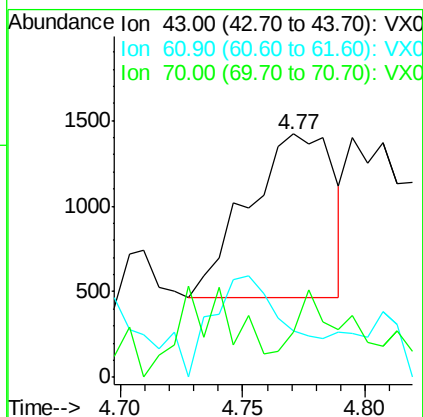
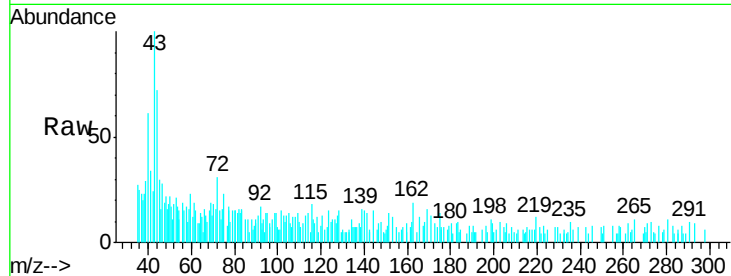
Ion 76.90 (76.60 to 77.60): VX0





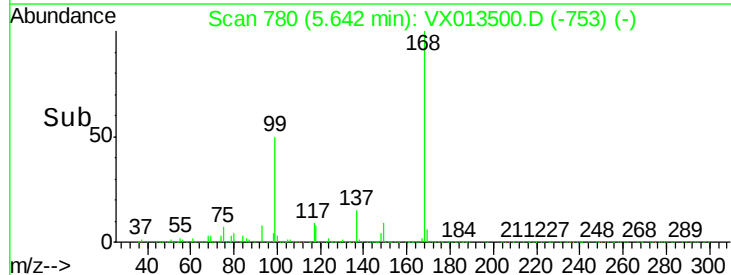
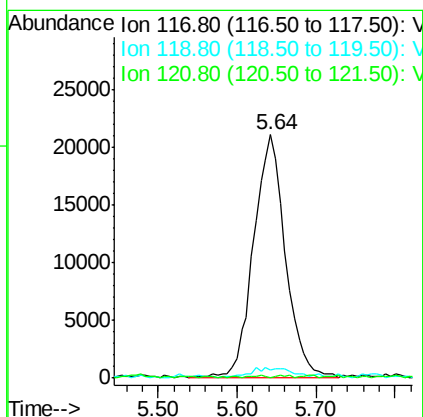
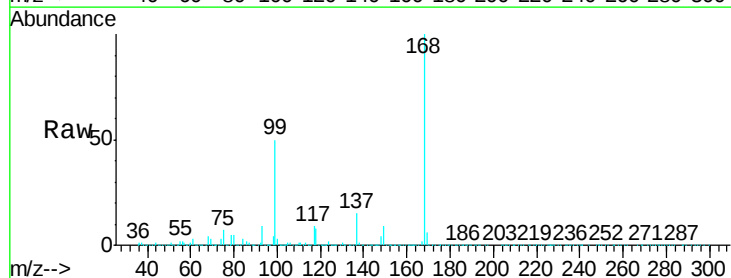
#37
Ethyl Acetate
Concen: 0.206 ug/l
RT: 4.77 min Scan# 637
Delta R.T. -0.05 min
Lab File: VX013500.D
Acq: 21 Nov 2019 14:03

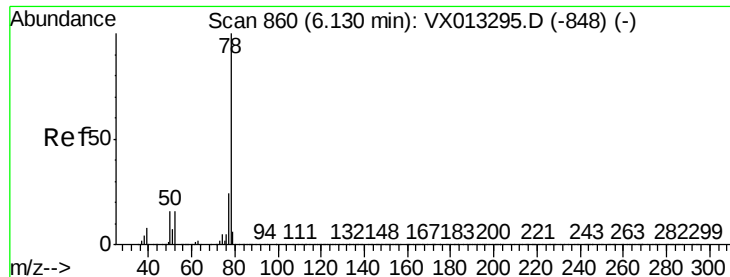
Tgt Ion: 43 Resp: 2329
Ion Ratio Lower Upper
43 100
61 0.0 10.7 16.1#
70 18.5 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 6.647 ug/l
RT: 5.64 min Scan# 780
Delta R.T. -0.13 min
Lab File: VX013500.D
Acq: 21 Nov 2019 14:03

Tgt Ion: 117 Resp: 59382
Ion Ratio Lower Upper
117 100
119 3.1 76.1 114.1#
121 0.1 24.6 37.0#





#40

Benzene

Concen: 0.229 ug/l

RT: 6.12 min Scan# 859

Delta R.T. -0.01 min

Lab File: VX013500.D

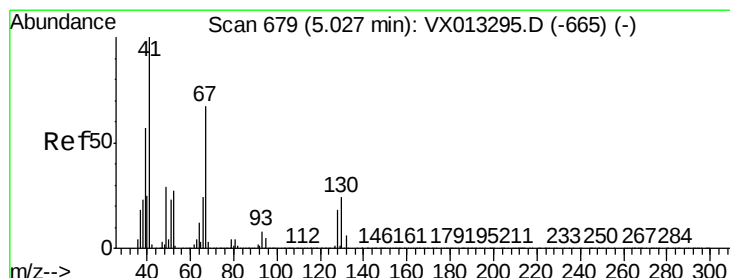
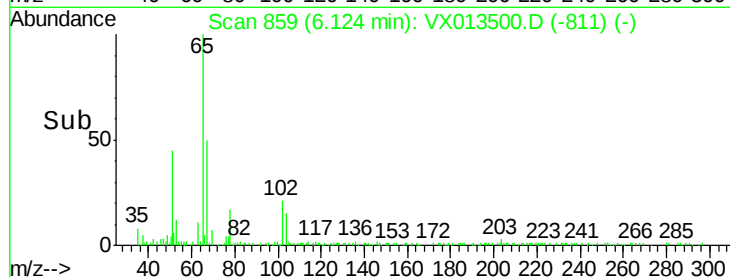
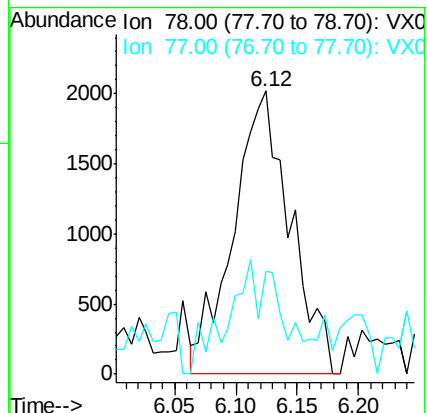
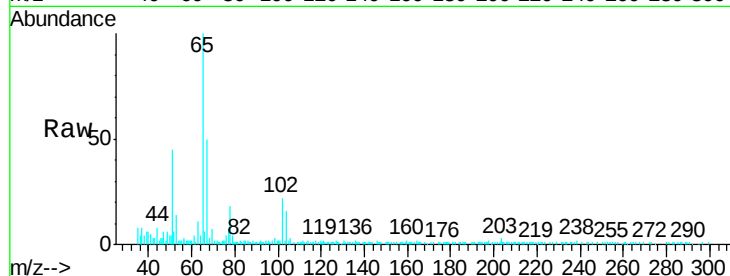
Acq: 21 Nov 2019 14:03

Tgt Ion: 78 Resp: 6521

Ion Ratio Lower Upper

78 100

77 26.6 19.5 29.3



#41

Methacrylonitrile

Concen: 22.297 ug/l

RT: 5.19 min Scan# 705

Delta R.T. 0.16 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

Tgt Ion: 41 Resp: 141087

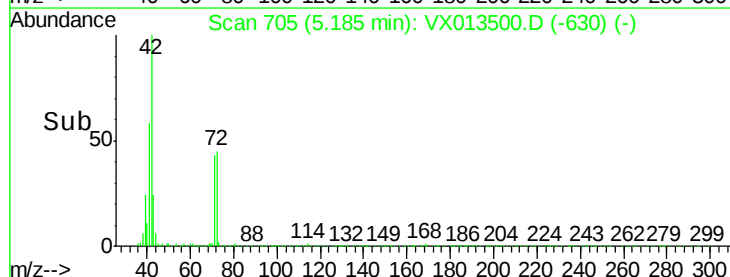
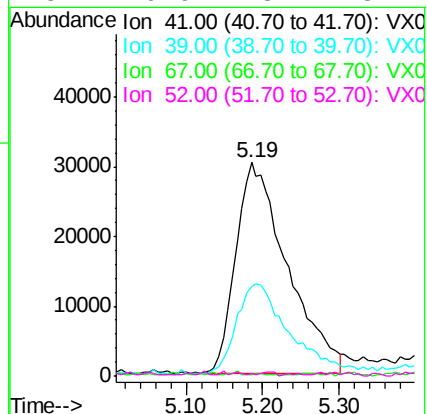
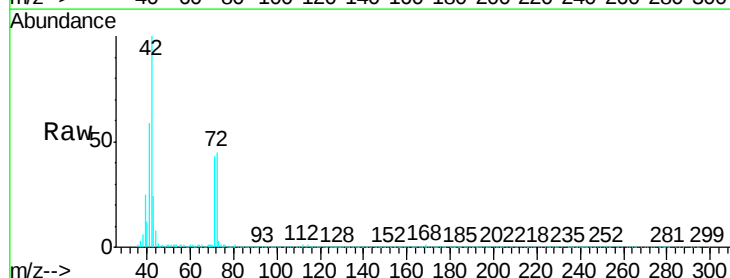
Ion Ratio Lower Upper

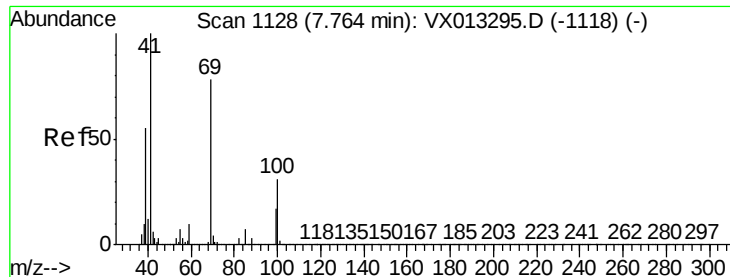
41 100

39 42.9 45.0 67.6#

67 0.4 55.4 83.2#

52 0.6 23.1 34.7#





#48

Methyl methacrylate

Concen: 3.877 ug/l

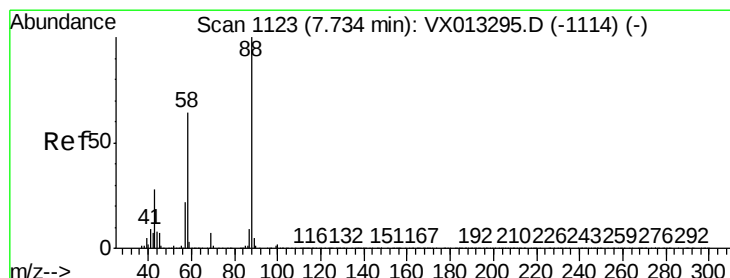
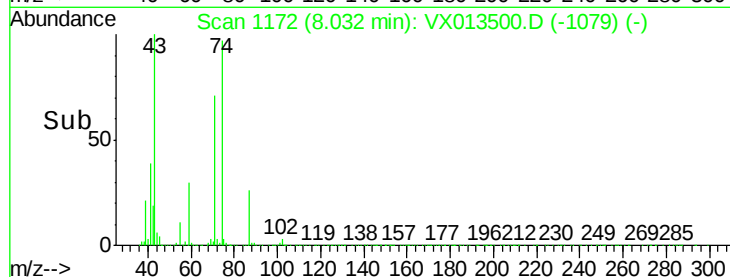
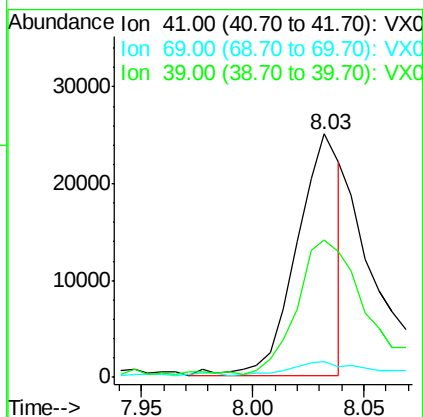
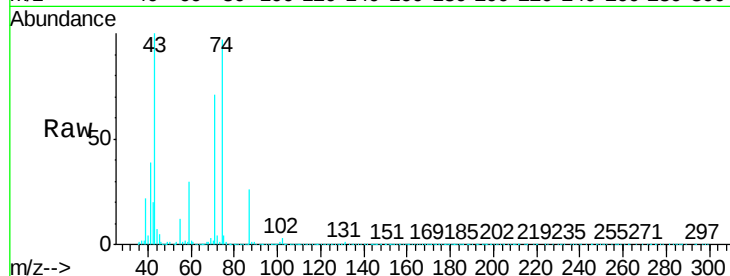
RT: 8.03 min Scan# 1172

Delta R.T. 0.27 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

Tgt Ion:	41	Resp:	34020
Ion	Ratio	Lower	Upper
41	100		
69	5.8	63.0	94.6#
39	55.9	45.9	68.9



#49

1,4-Dioxane

Concen: 1.179 ug/l

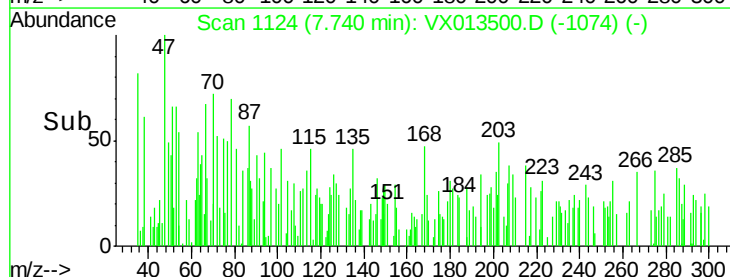
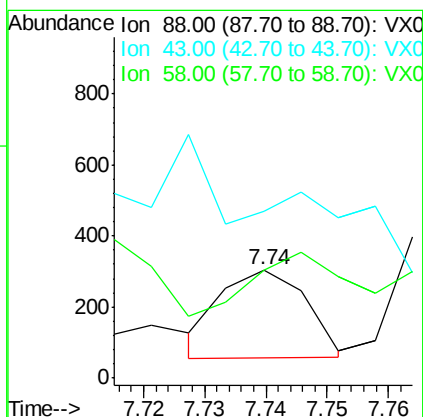
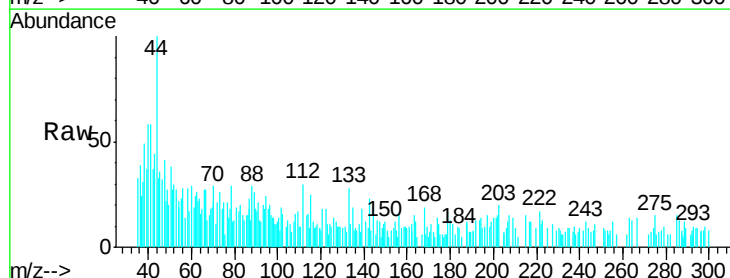
RT: 7.74 min Scan# 1124

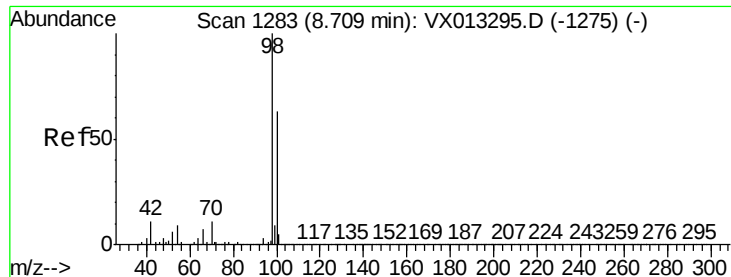
Delta R.T. 0.01 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

Tgt Ion:	88	Resp:	237
Ion	Ratio	Lower	Upper
88	100		
43	0.0	26.6	39.8#
58	81.9	55.0	82.6





#50

Toluene-d8

Concen: 50.861 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013500.D

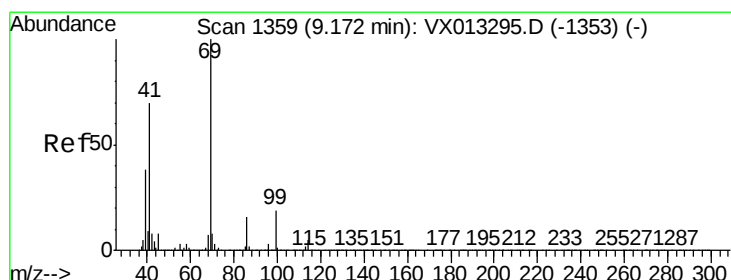
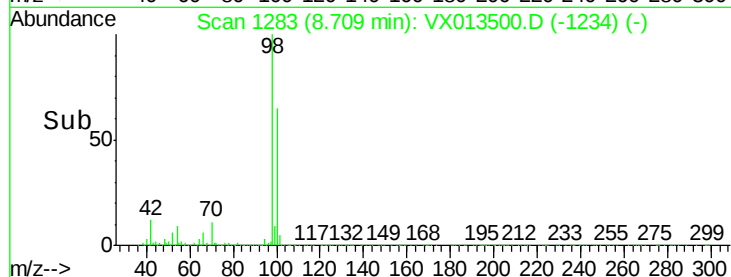
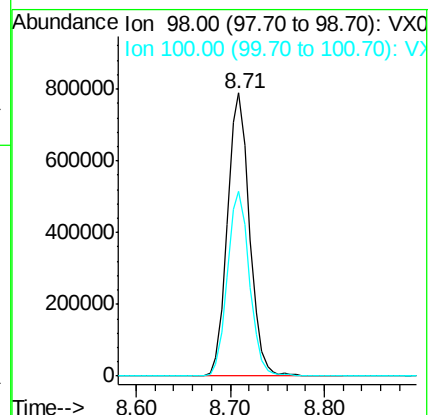
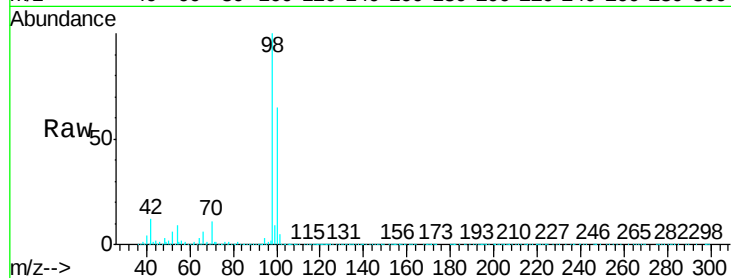
Acq: 21 Nov 2019 14:03

Tgt Ion: 98 Resp: 1280773

Ion Ratio Lower Upper

98 100

100 65.6 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.605 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

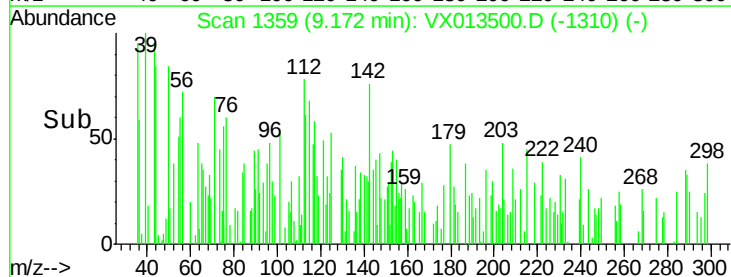
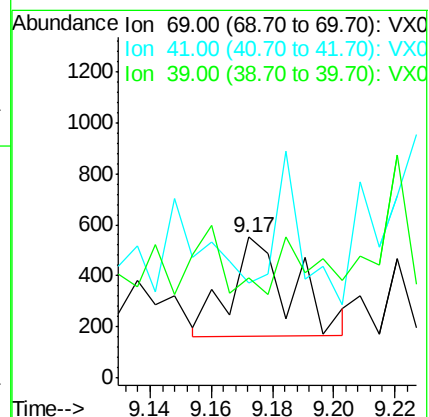
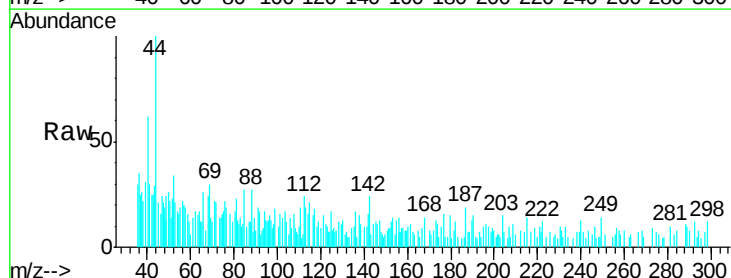
Tgt Ion: 69 Resp: 536

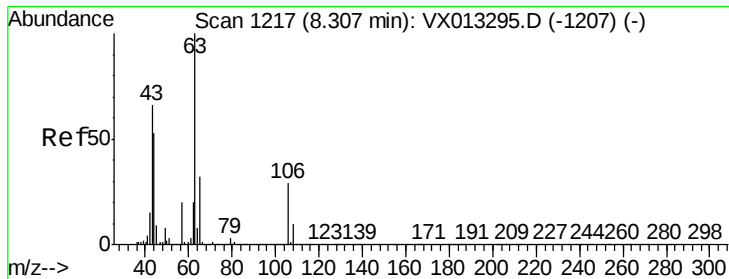
Ion Ratio Lower Upper

69 100

41 67.0 56.2 84.2

39 35.3 31.1 46.7





#58

2-Chloroethyl Vinyl ether

Concen: 0.214 ug/l

RT: 8.45 min Scan# 1240

Delta R.T. 0.14 min

Lab File: VX013500.D

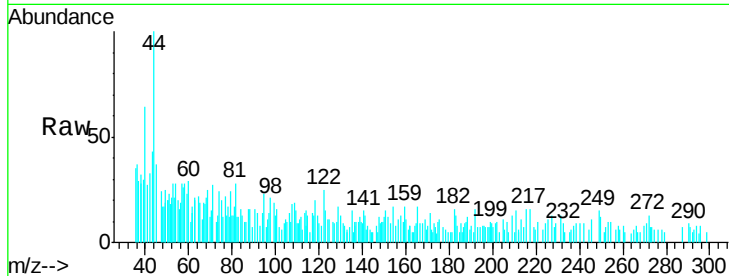
Acq: 21 Nov 2019 14:03

Tgt Ion: 63 Resp: 1071

Ion Ratio Lower Upper

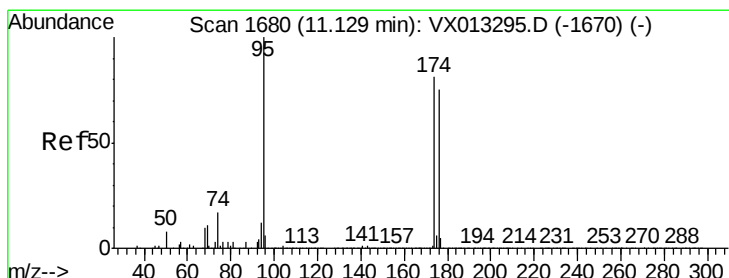
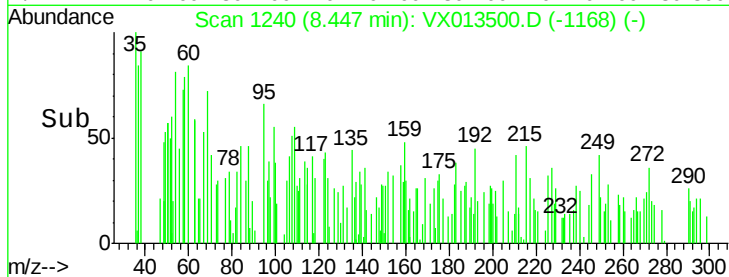
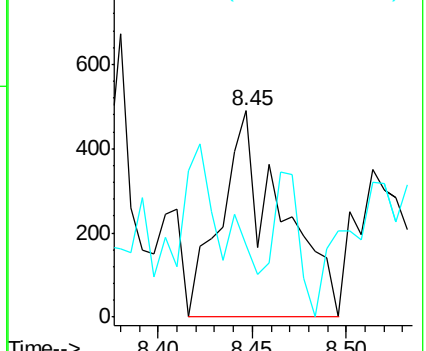
63 100

106 30.8 23.4 35.2



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V



#62

4-Bromofluorobenzene

Concen: 47.047 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013500.D

Acq: 21 Nov 2019 14:03

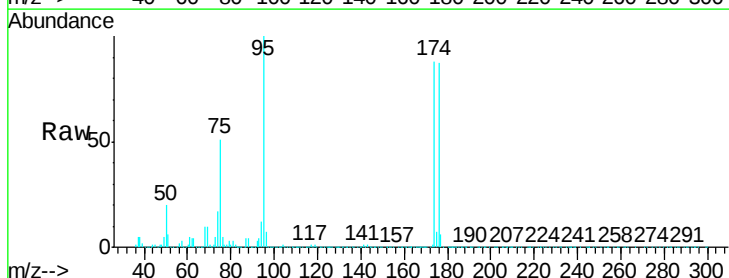
Tgt Ion: 95 Resp: 427577

Ion Ratio Lower Upper

95 100

174 90.8 0.0 179.8

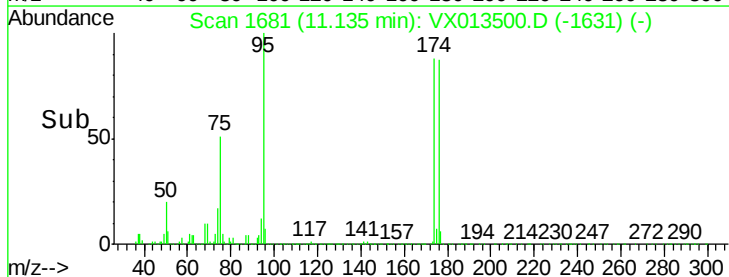
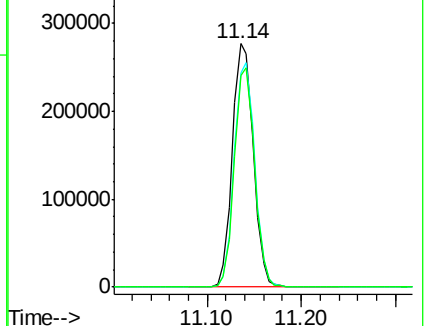
176 87.3 0.0 173.0

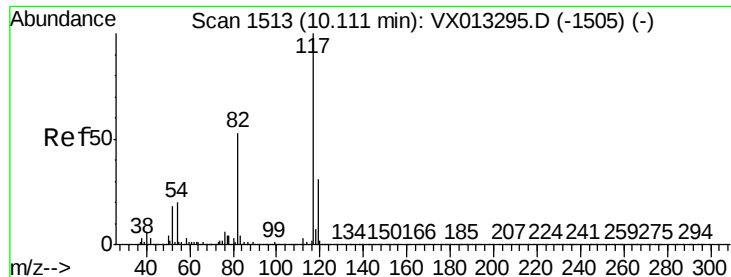


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

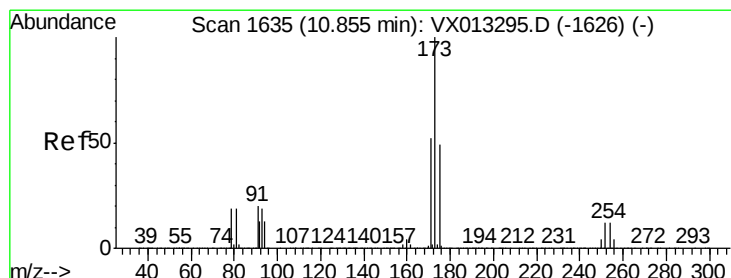
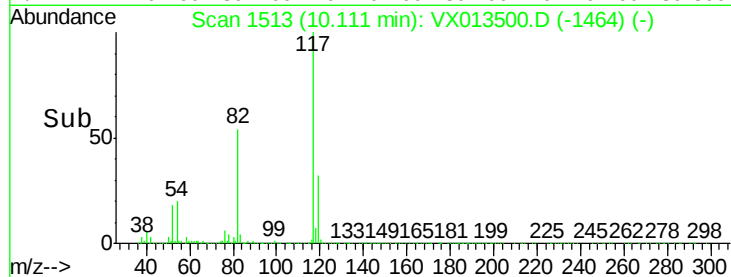
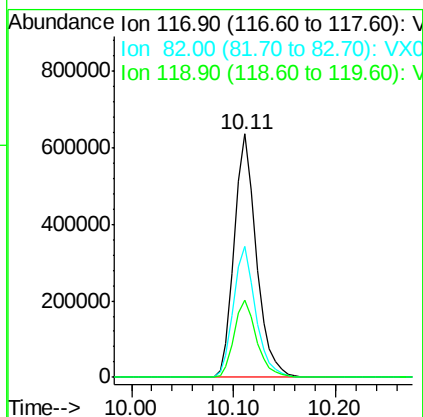
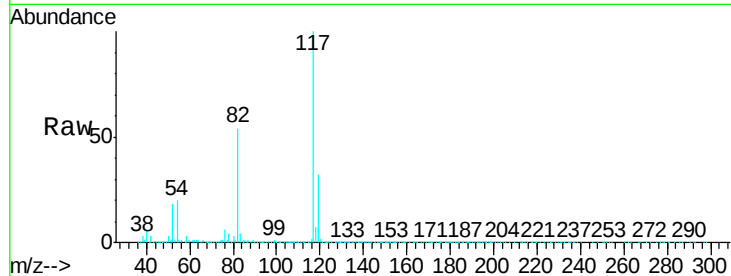
Ion 175.80 (175.50 to 176.50): V





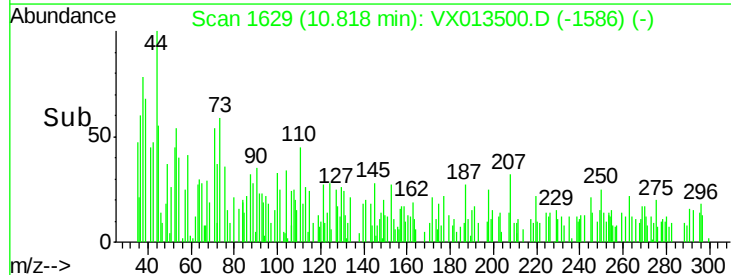
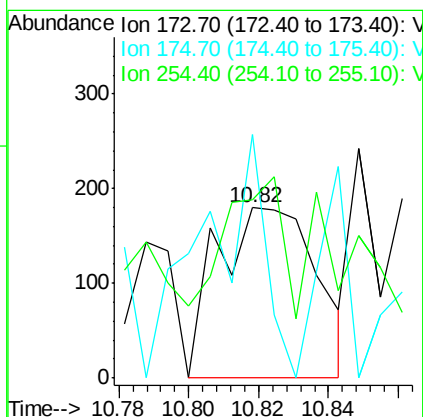
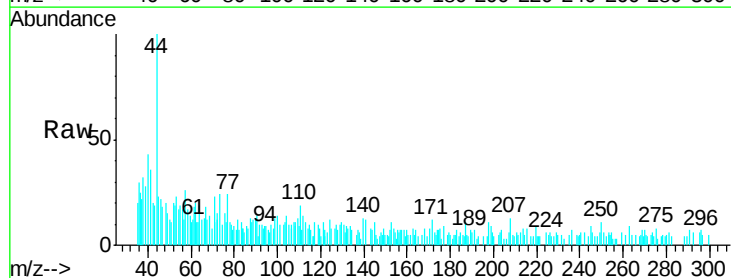
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013500.D
Acq: 21 Nov 2019 14:03

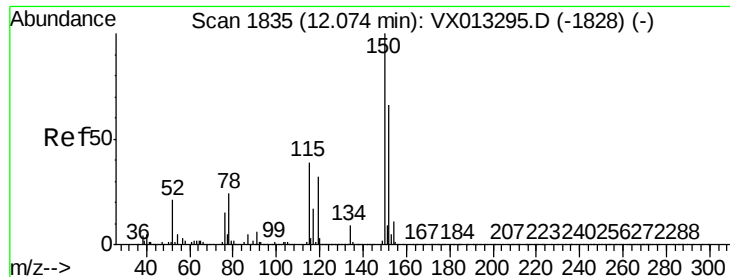
Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.6	42.6	64.0
119	31.9	24.8	37.2



#71
Bromoform
Concen: 3.253 ug/l
RT: 10.82 min Scan# 1629
Delta R.T. -0.04 min
Lab File: VX013500.D
Acq: 21 Nov 2019 14:03

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.8	74.4#
254	47.5	0.2	0.2#

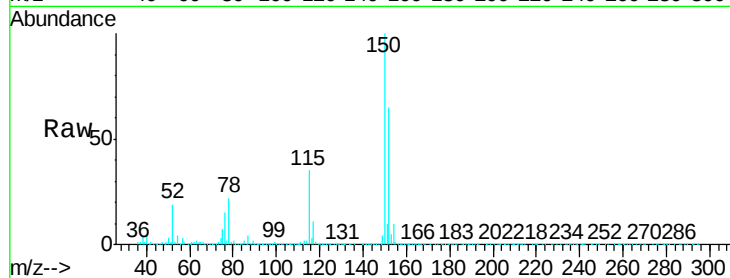




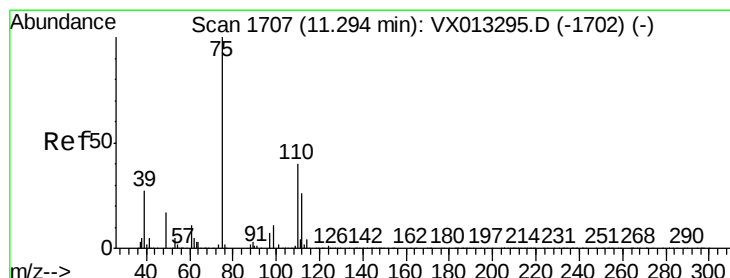
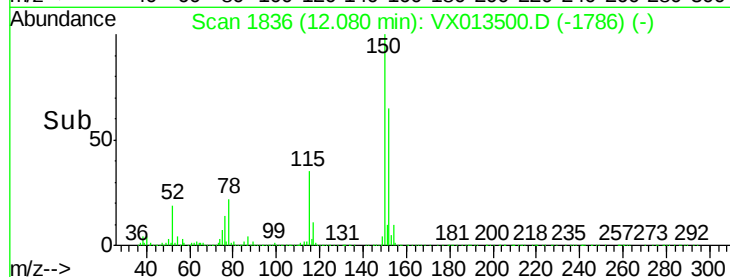
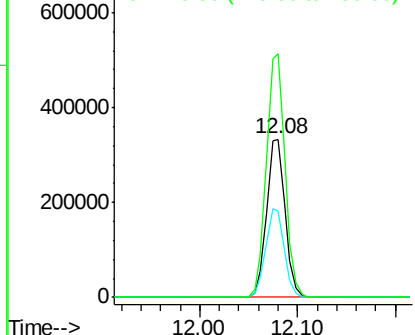
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1836
Delta R.T. 0.01 min
Lab File: VX013500.D
Acq: 21 Nov 2019 14:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.1	39.5	118.3
150	155.5	0.0	344.4



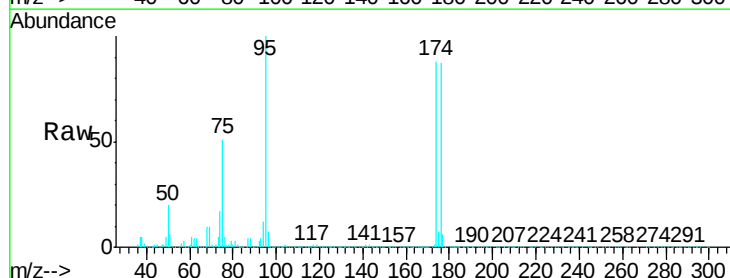
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



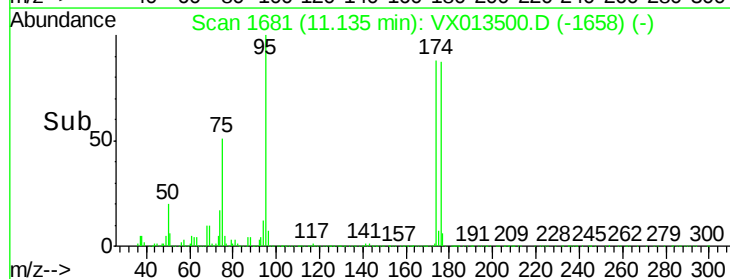
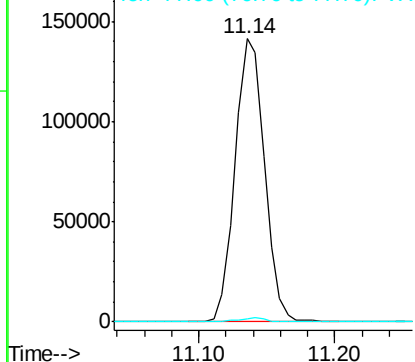
#76

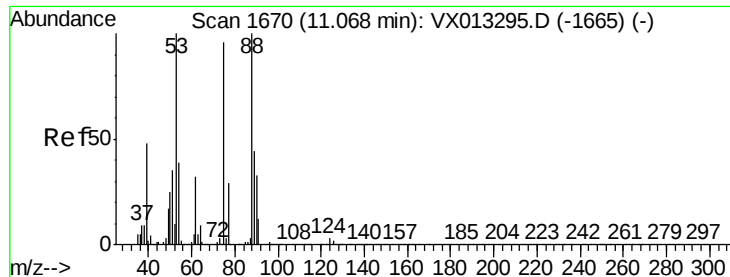
1,2,3-Trichloropropane
Concen: 23.666 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.16 min
Lab File: VX013500.D
Acq: 21 Nov 2019 14:03

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	22.3	66.8#



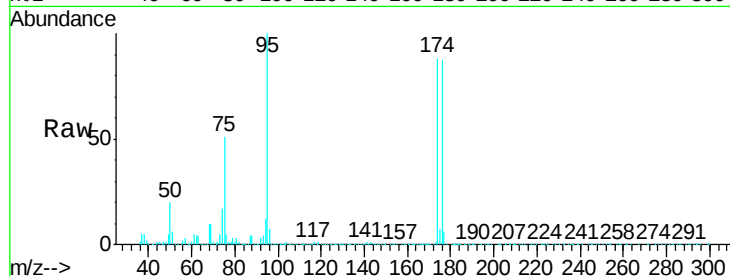
Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0



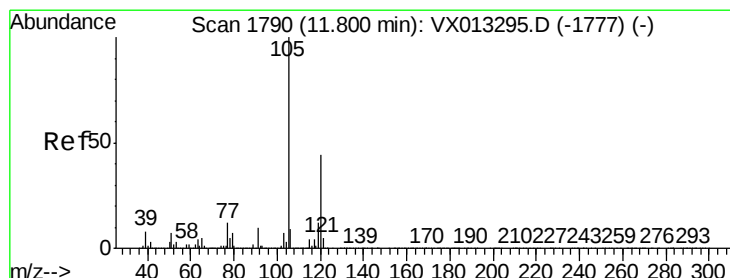
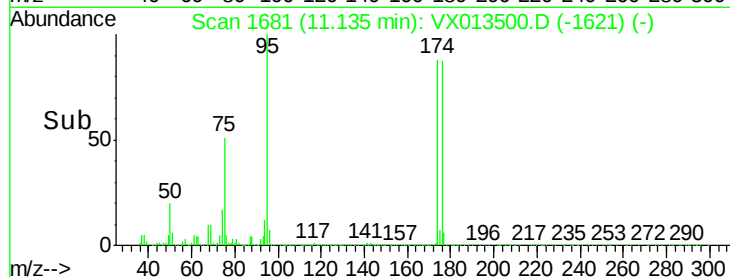
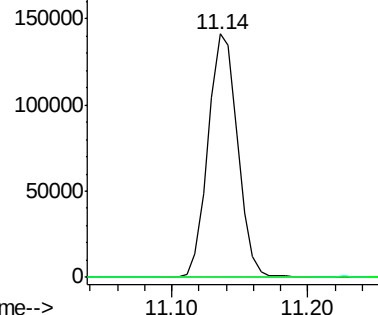


#81
trans-1,4-Dichloro-2-butene
Concen: 60.916 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.07 min
Lab File: VX013500.D
Acq: 21 Nov 2019 14:03

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.2	81.0	121.6#
89	0.1	36.0	54.0#

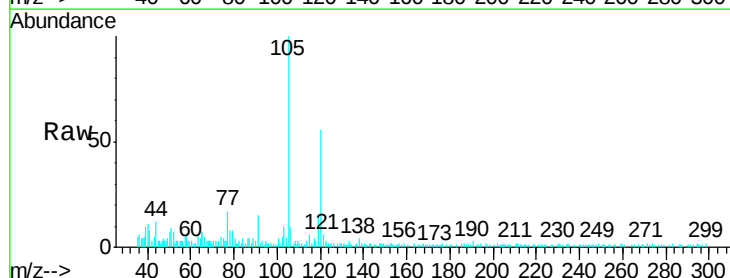


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#84
1,2,4-Trimethylbenzene
Concen: 0.479 ug/l
RT: 11.81 min Scan# 1791
Delta R.T. 0.01 min
Lab File: VX013500.D
Acq: 21 Nov 2019 14:03

Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.9	22.7	68.1



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

