

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112119\
 Data File : VX013498.D
 Acq On : 21 Nov 2019 13:17
 Operator : JC/SP
 Sample : K5962-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 22 01:07:28 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	5.65	168	704246	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1140043	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1019863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	464197	50.00	ug/l	0.00

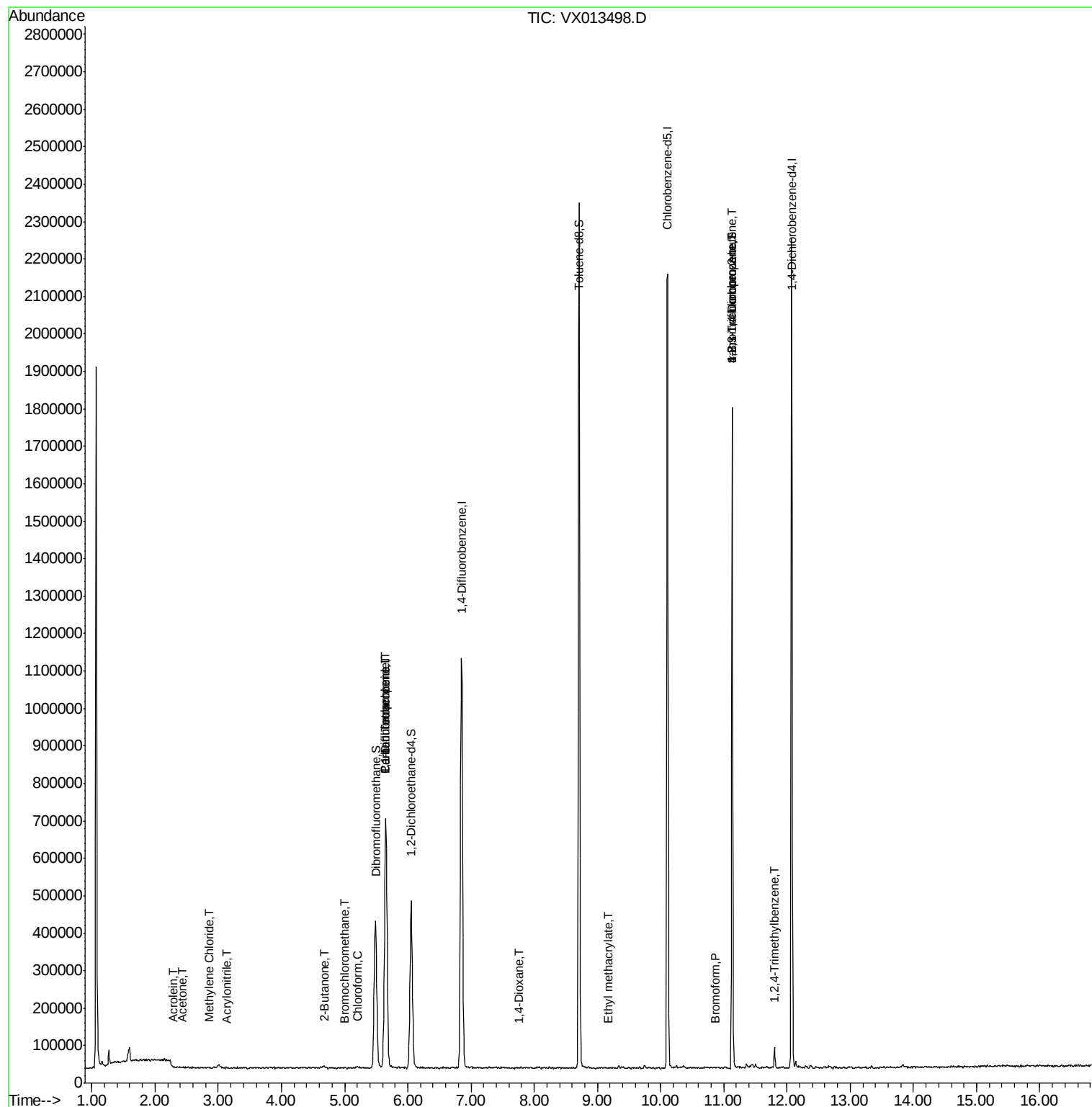
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	413295	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
35) Dibromofluoromethane	5.49	113	338129	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	
50) Toluene-d8	8.71	98	1362469	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
62) 4-Bromofluorobenzene	11.14	95	452692	46.53	ug/l	0.00
Spiked Amount			Recovery	=	93.06%	

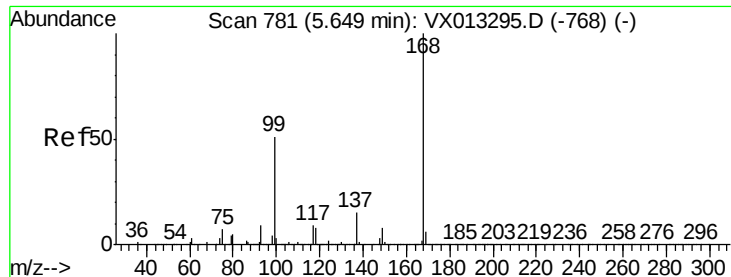
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.67	64	1244	Below Cal	#	43
13) Acrolein	2.29	56	912	0.765	ug/l #	60
15) Acrylonitrile	3.13	53	857	0.209	ug/l #	72
16) Acetone	2.44	43	1486	0.357	ug/l #	74
20) Methylene Chloride	2.84	84	2106	0.274	ug/l #	70
25) 2-Butanone	4.68	43	1430	0.234	ug/l #	81
28) Bromochloromethane	5.00	49	1928	0.536	ug/l #	26
30) Chloroform	5.21	83	5617	0.449	ug/l	90
36) 1,1-Dichloropropene	5.65	75	47645	4.872	ug/l #	51
38) Carbon Tetrachloride	5.65	117	61672	6.448	ug/l #	16
49) 1,4-Dioxane	7.76	88	551	2.561	ug/l #	75
56) Ethyl methacrylate	9.18	69	316	1.586	ug/l #	15
71) Bromoform	10.85	173	571	3.279	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	224442	23.805	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	224442	61.273	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	25731	1.001	ug/l	99

(#) = 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# 782

Delta R.T. 0.01 min

Lab File: VX013498.D

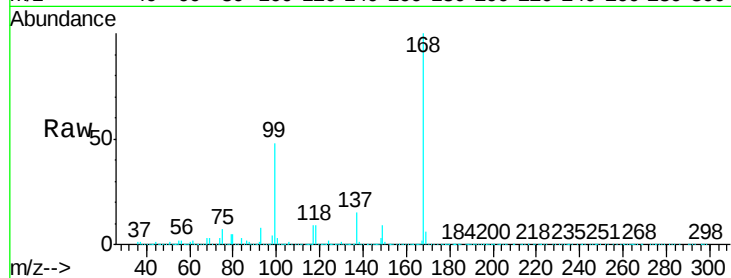
Acq: 21 Nov 2019 13:17

Tgt Ion: 168 Resp: 704246

Ion Ratio Lower Upper

168 100

99 48.2 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

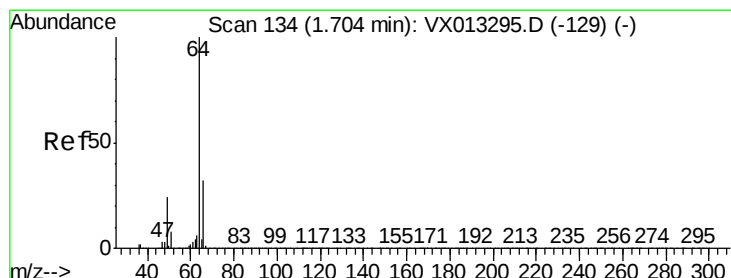
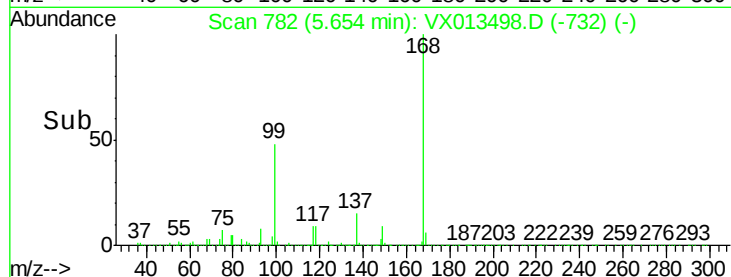
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 128

Delta R.T. -0.04 min

Lab File: VX013498.D

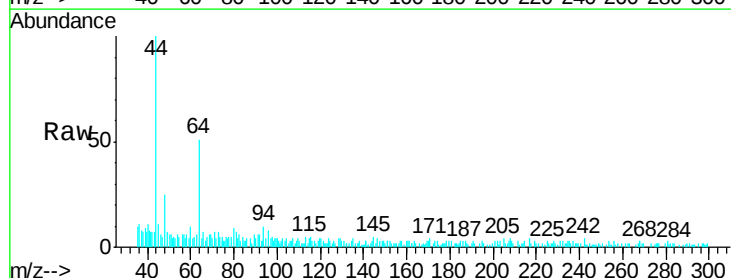
Acq: 21 Nov 2019 13:17

Tgt Ion: 64 Resp: 1244

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.67

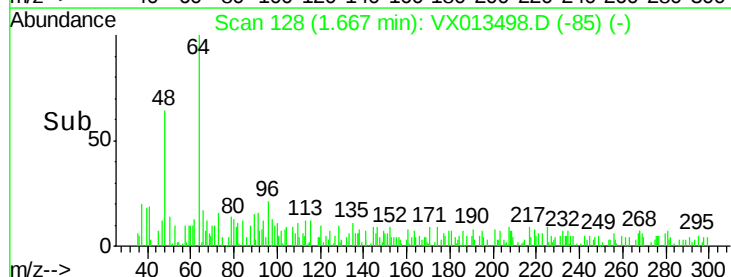
3000

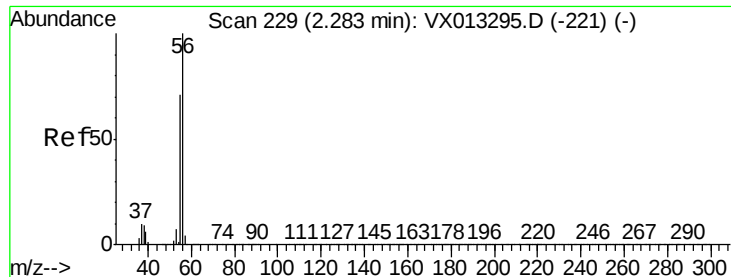
2000

1000

0

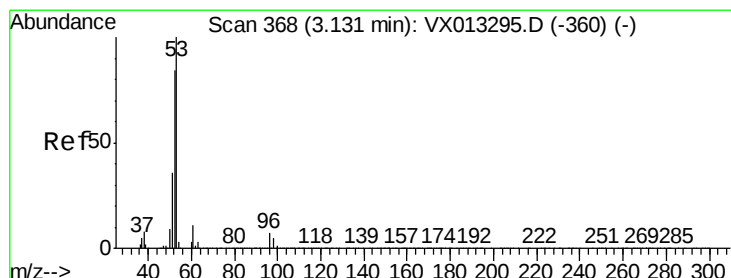
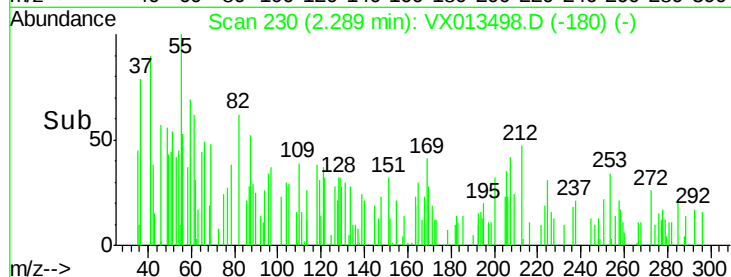
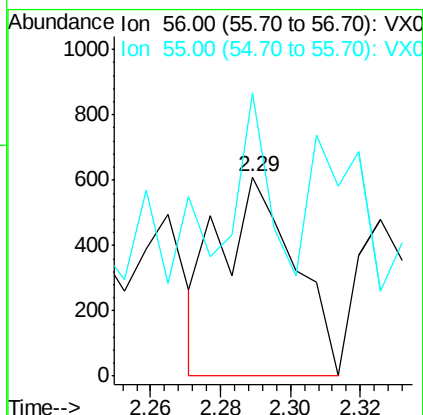
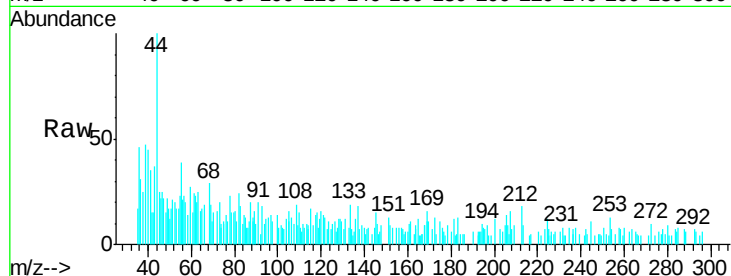
Time-->





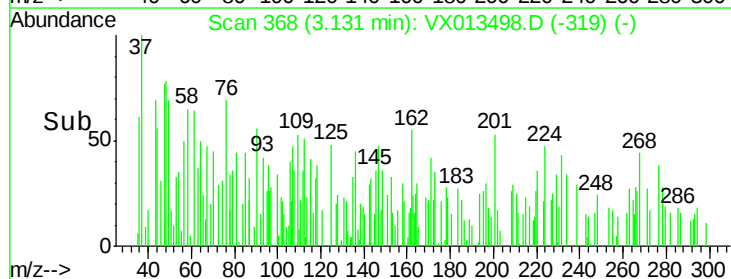
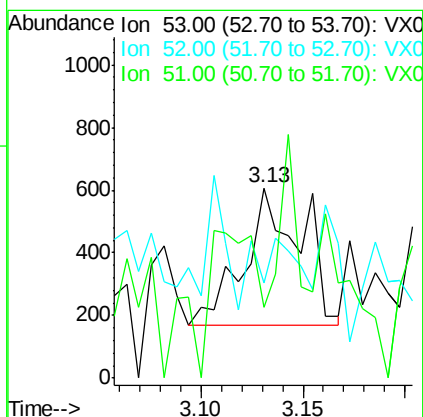
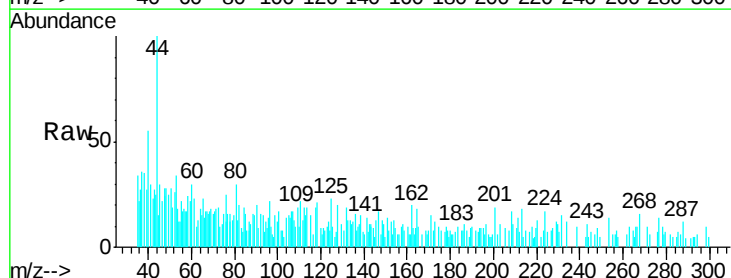
#13
Acrolein
Concen: 0.765 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX013498.D
Acq: 21 Nov 2019 13:17

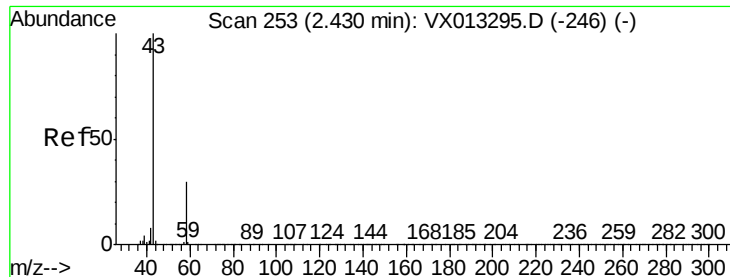
Tgt Ion: 56 Resp: 912
Ion Ratio Lower Upper
56 100
55 38.5 57.4 86.0#



#15
Acrylonitrile
Concen: 0.209 ug/l
RT: 3.13 min Scan# 368
Delta R.T. -0.00 min
Lab File: VX013498.D
Acq: 21 Nov 2019 13:17

Tgt Ion: 53 Resp: 857
Ion Ratio Lower Upper
53 100
52 47.8 67.4 101.0#
51 36.8 29.4 44.2





#16

Acetone

Concen: 0.357 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013498.D

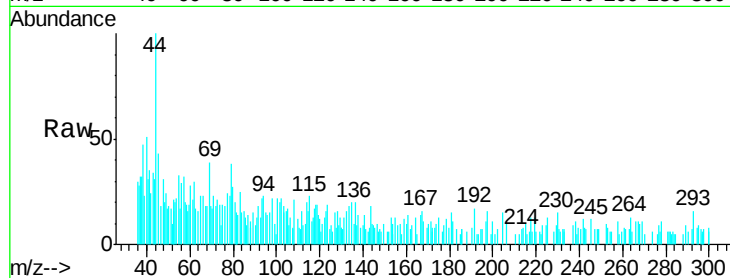
Acq: 21 Nov 2019 13:17

Tgt Ion: 43 Resp: 1486

Ion Ratio Lower Upper

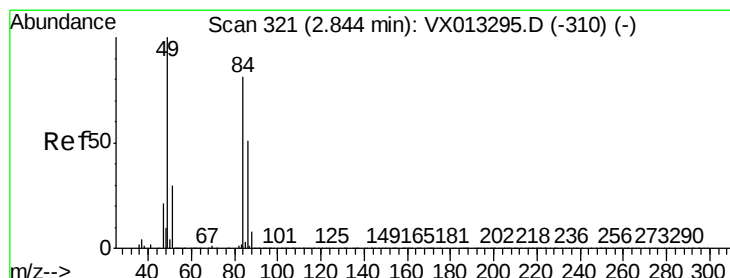
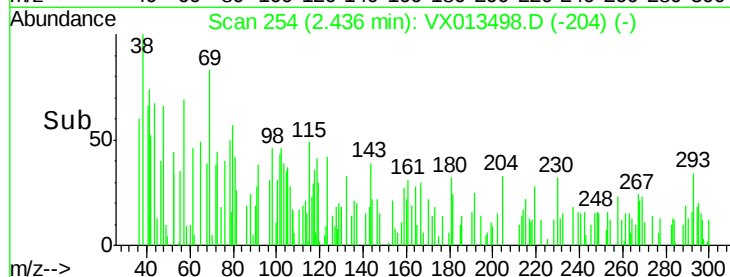
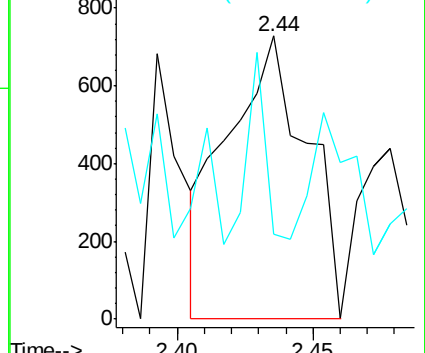
43 100

58 16.3 24.3 36.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.274 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX013498.D

Acq: 21 Nov 2019 13:17

Tgt Ion: 84 Resp: 2106

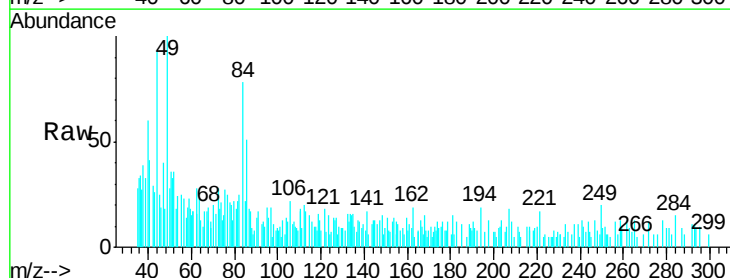
Ion Ratio Lower Upper

84 100

49 83.2 98.2 147.4#

51 56.1 29.9 44.9#

86 48.9 49.9 74.9#

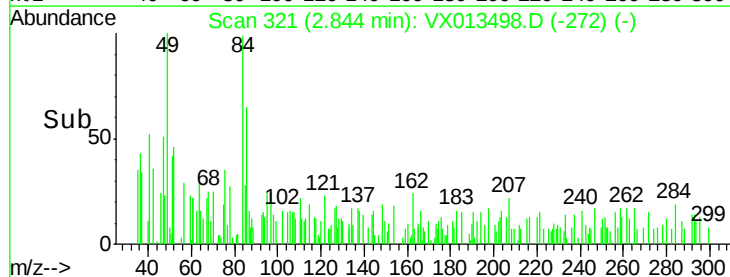
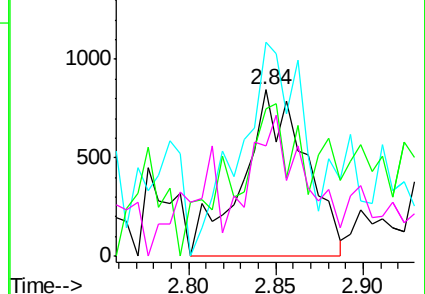


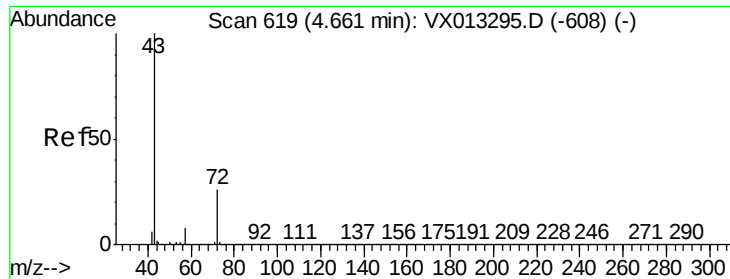
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.234 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013498.D

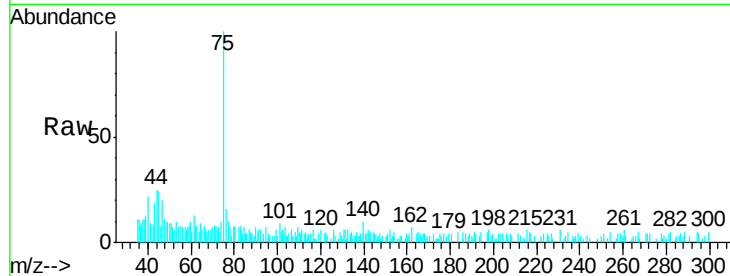
Acq: 21 Nov 2019 13:17

Tgt Ion: 43 Resp: 1430

Ion Ratio Lower Upper

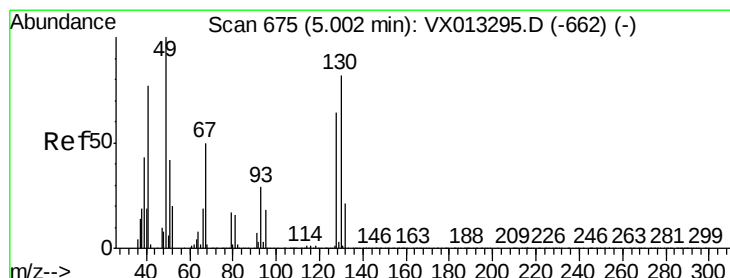
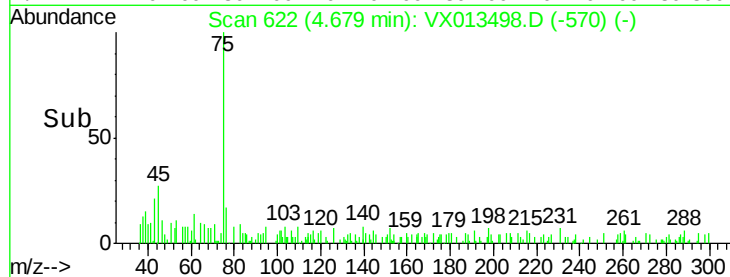
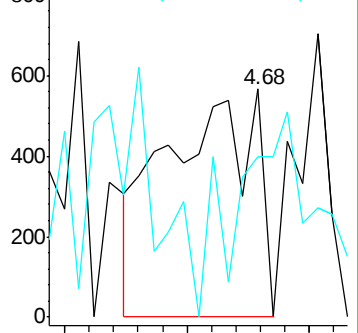
43 100

72 16.8 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: 0.536 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX013498.D

Acq: 21 Nov 2019 13:17

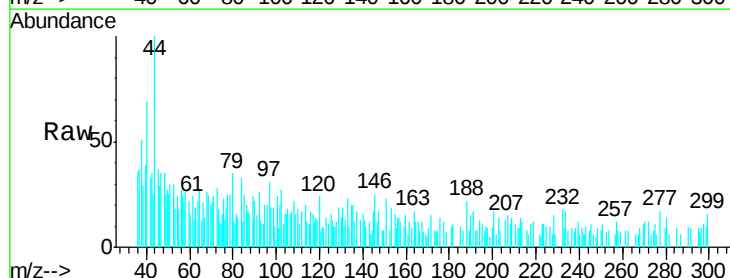
Tgt Ion: 49 Resp: 1928

Ion Ratio Lower Upper

49 100

129 14.4 0.0 5.2#

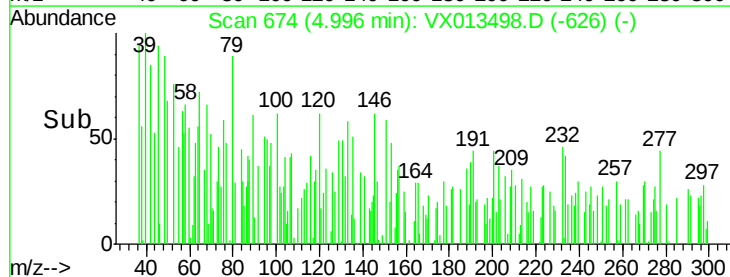
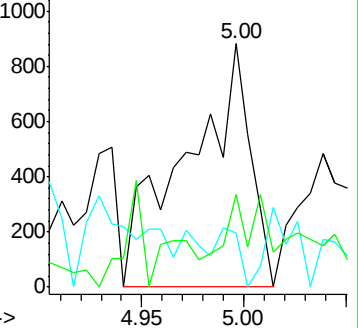
130 13.0 63.8 95.6#

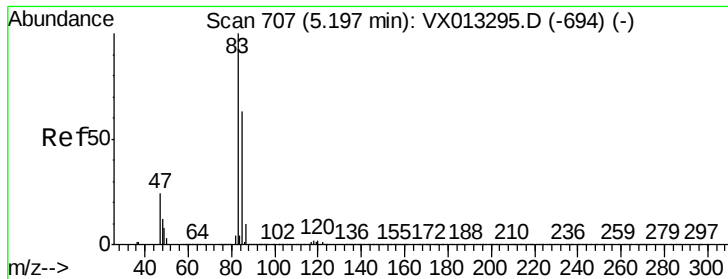


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#30

Chloroform

Concen: 0.449 ug/l

RT: 5.21 min Scan# 709

Delta R.T. 0.01 min

Lab File: VX013498.D

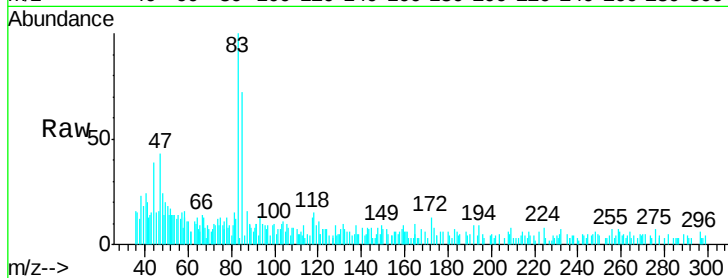
Acq: 21 Nov 2019 13:17

Tgt Ion: 83 Resp: 5617

Ion Ratio Lower Upper

83 100

85 70.7 50.2 75.4



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21

2500

2000

1500

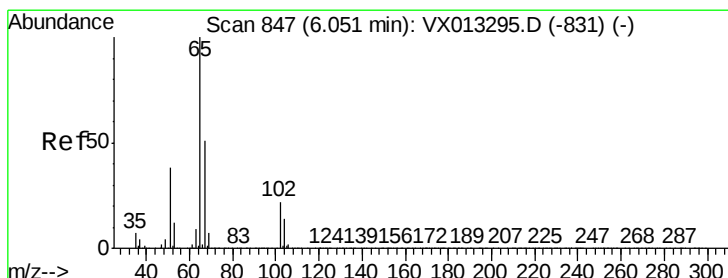
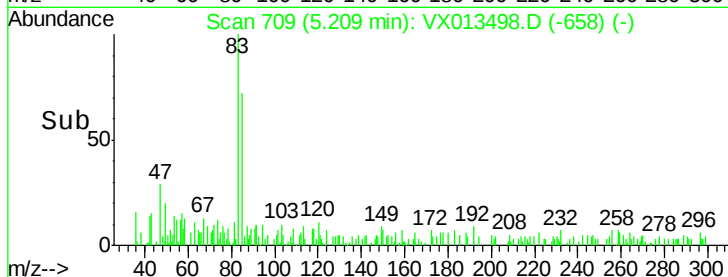
1000

500

0

Time-->

5.10 5.15 5.20 5.25 5.30



#33

1,2-Dichloroethane-d4

Concen: 49.537 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013498.D

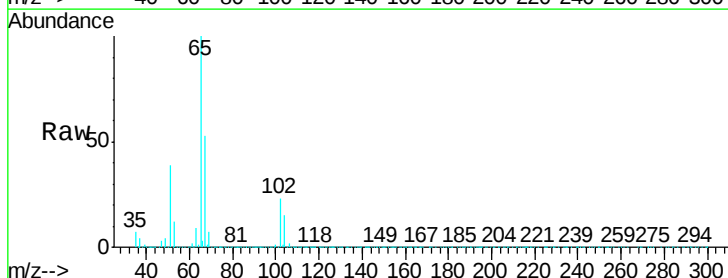
Acq: 21 Nov 2019 13:17

Tgt Ion: 65 Resp: 413295

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

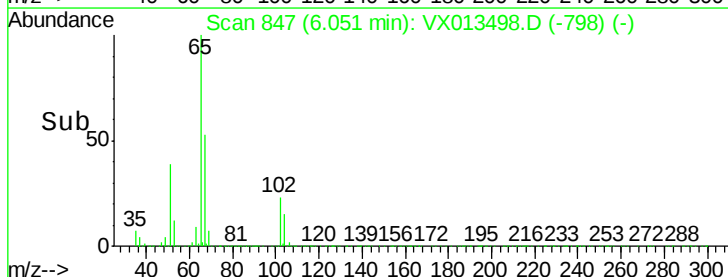
100000

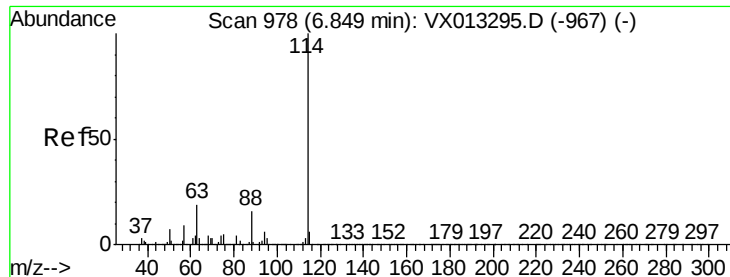
50000

0

Time-->

5.90 6.00 6.10 6.20





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013498.D

Acq: 21 Nov 2019 13:17

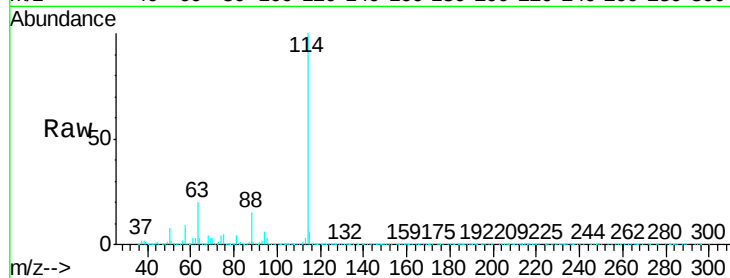
Tgt Ion:114 Resp: 1140043

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.4

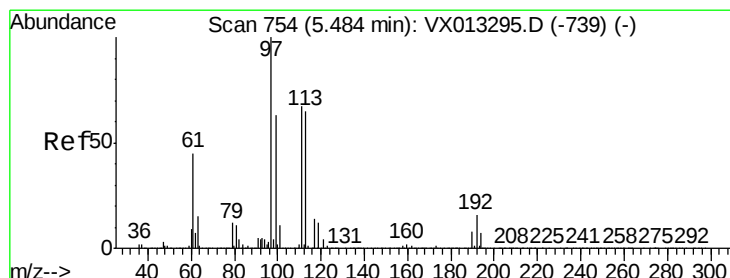
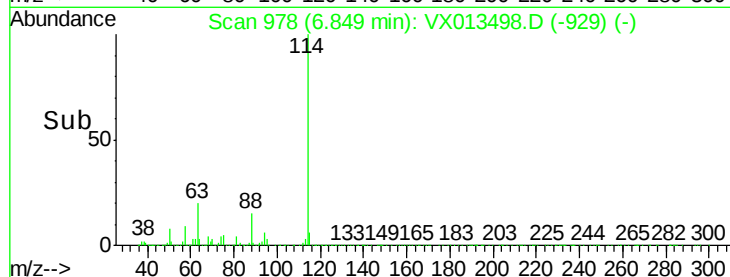
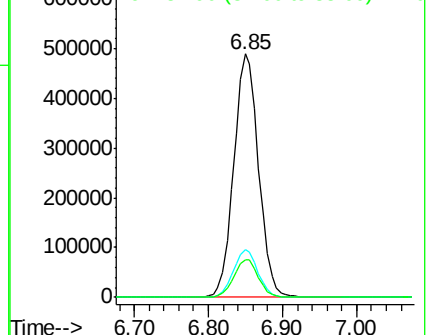
88 15.1 0.0 32.2



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: 47.288 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013498.D

Acq: 21 Nov 2019 13:17

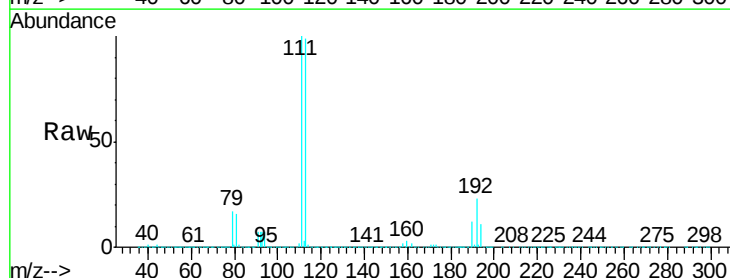
Tgt Ion:113 Resp: 338129

Ion Ratio Lower Upper

113 100

111 103.7 81.9 122.9

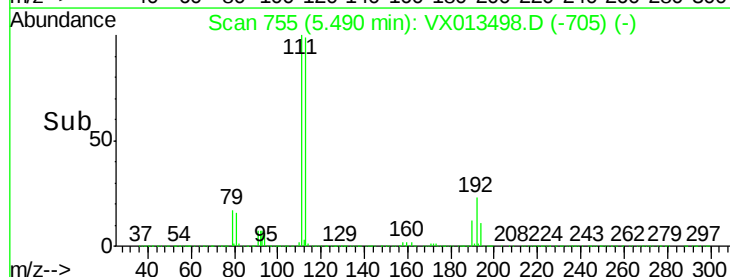
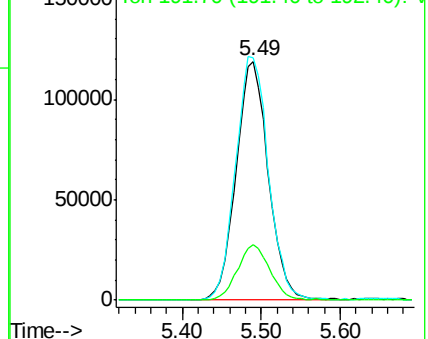
192 23.4 19.1 28.7

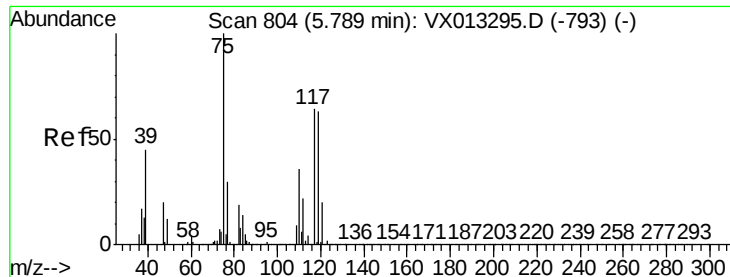


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

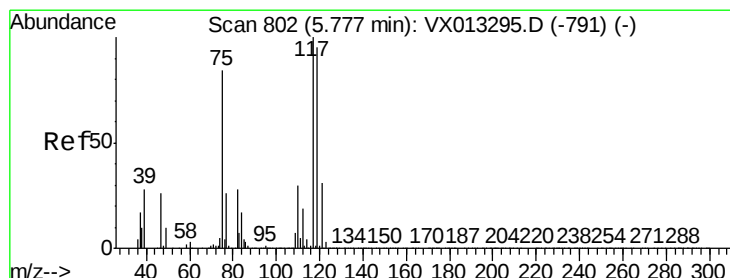
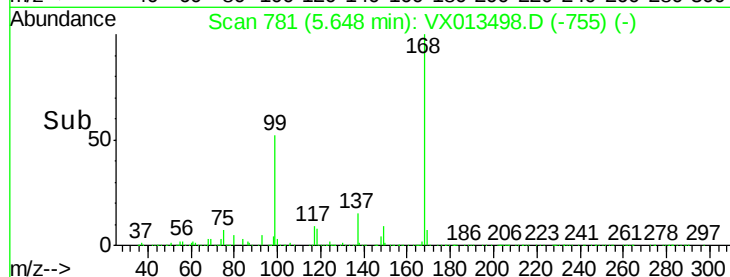
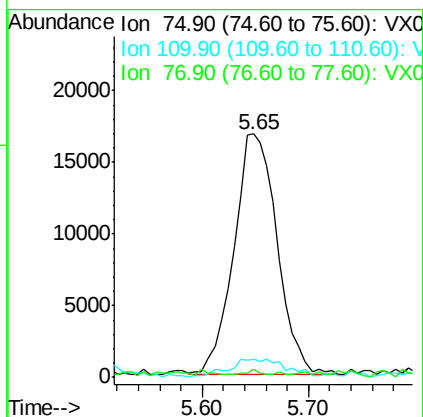
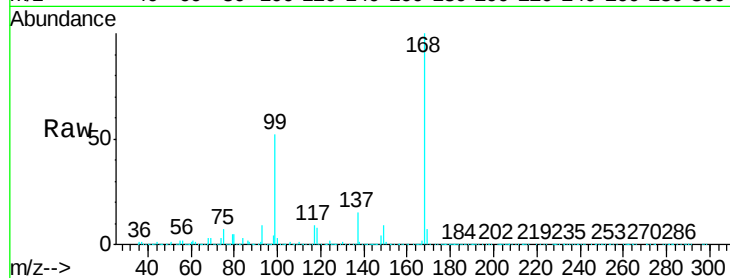
Ion 191.70 (191.40 to 192.40): V





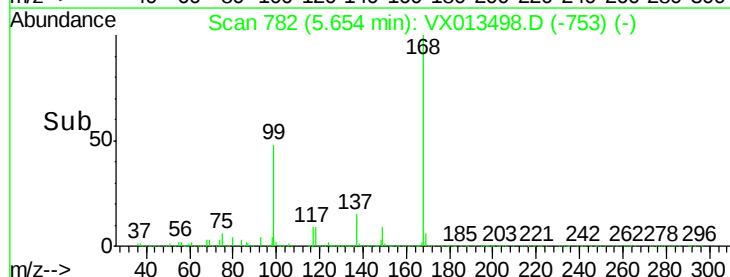
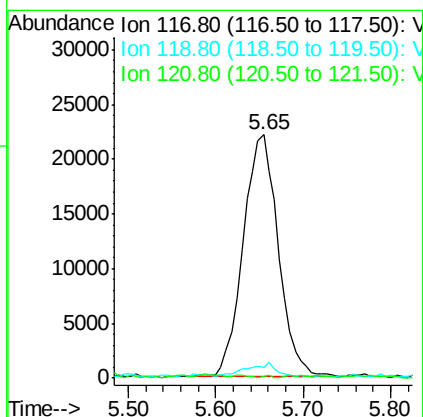
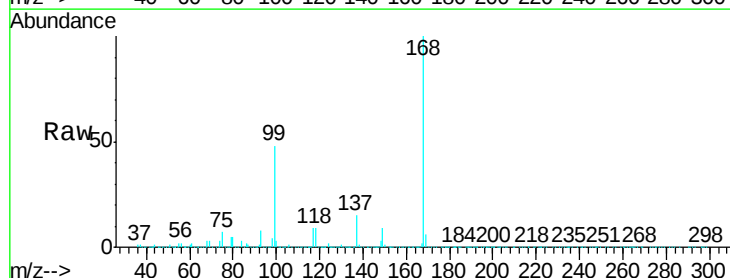
#36
 1,1-Dichloropropene
 Concen: 4.872 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013498.D
 Acq: 21 Nov 2019 13:17

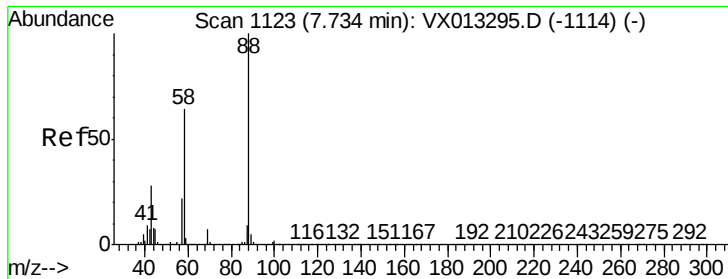
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.1	54.1#
77	0.7	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.448 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013498.D
 Acq: 21 Nov 2019 13:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.1	76.1	114.1#
121	1.1	24.6	37.0#





#49

1,4-Dioxane

Concen: 2.561 ug/l

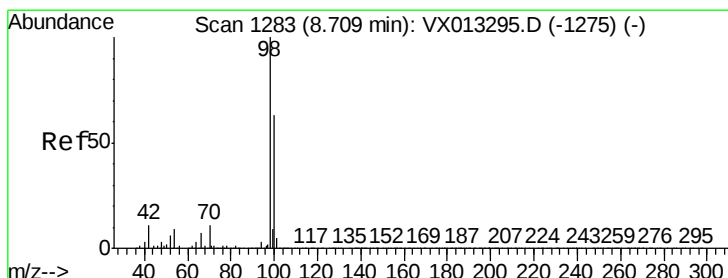
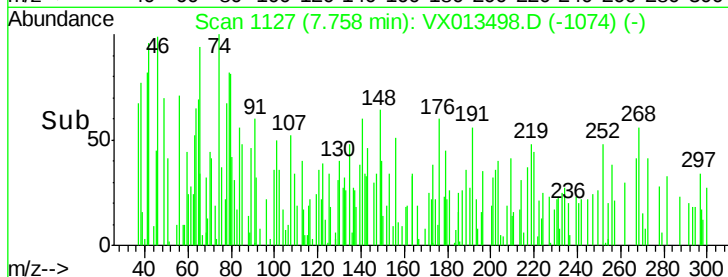
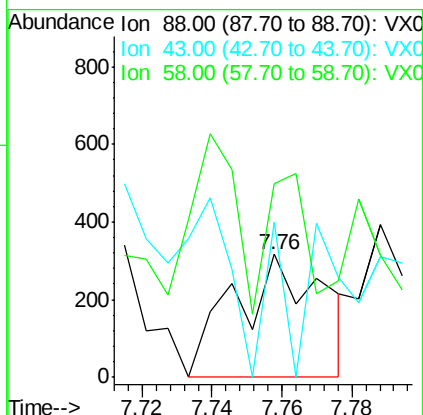
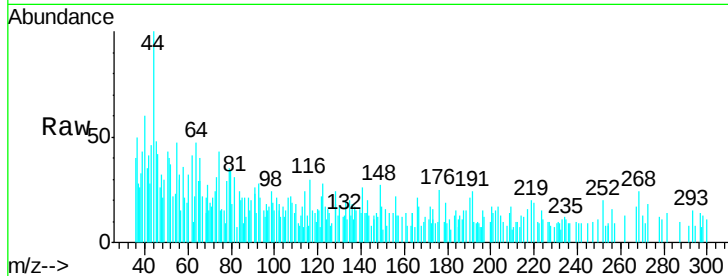
RT: 7.76 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VX013498.D

Acq: 21 Nov 2019 13:17

Tgt Ion:	88	Resp:	551
Ion	Ratio	Lower	Upper
88	100		
43	26.7	26.6	39.8
58	94.6	55.0	82.6#



#50

Toluene-d8

Concen: 50.543 ug/l

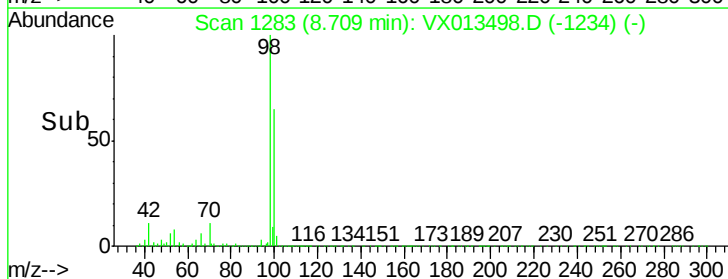
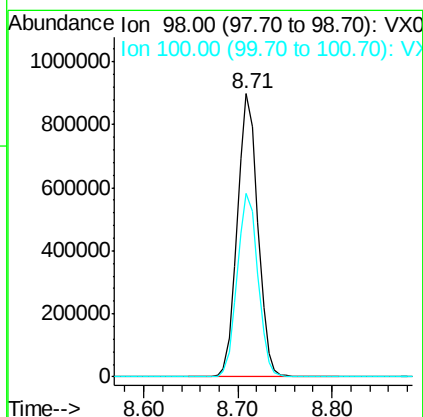
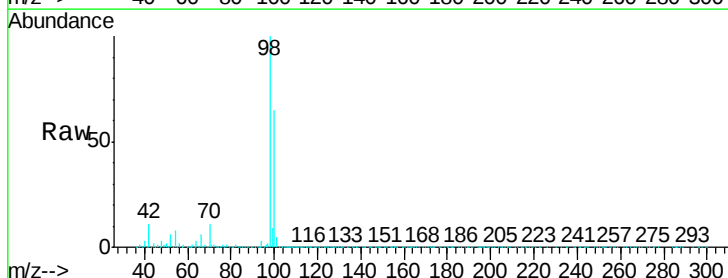
RT: 8.71 min Scan# 1283

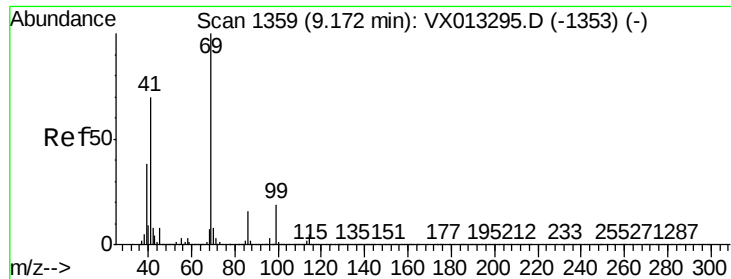
Delta R.T. -0.00 min

Lab File: VX013498.D

Acq: 21 Nov 2019 13:17

Tgt Ion:	98	Resp:	1362469
Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.2	78.2





#56

Ethyl methacrylate

Concen: 1.586 ug/l

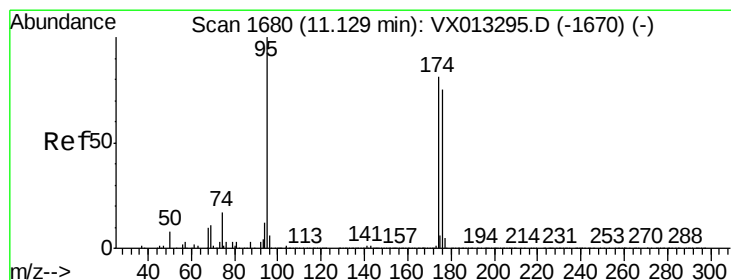
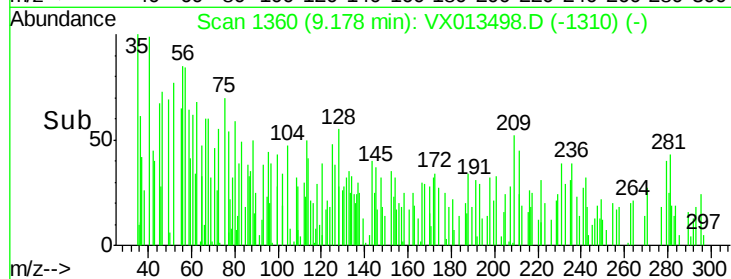
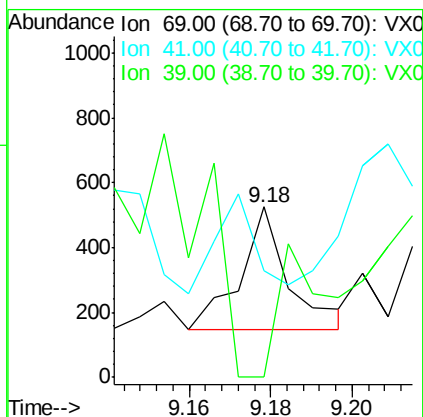
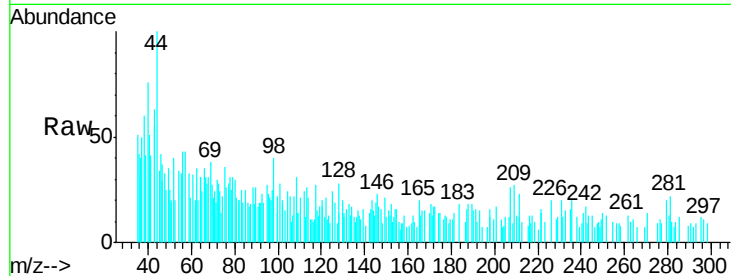
RT: 9.18 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VX013498.D

Acq: 21 Nov 2019 13:17

Tgt Ion:	69	Resp:	316
Ion	Ratio	Lower	Upper
69	100		
41	128.5	56.2	84.2#
39	105.7	31.1	46.7#



#62

4-Bromofluorobenzene

Concen: 46.531 ug/l

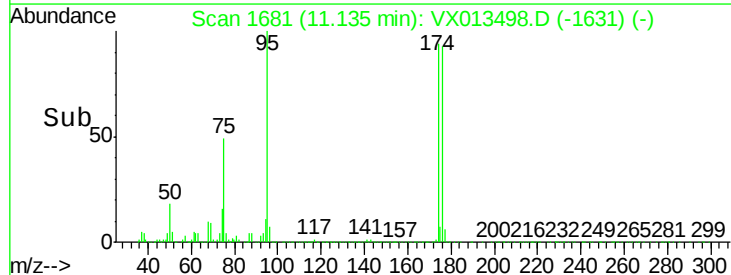
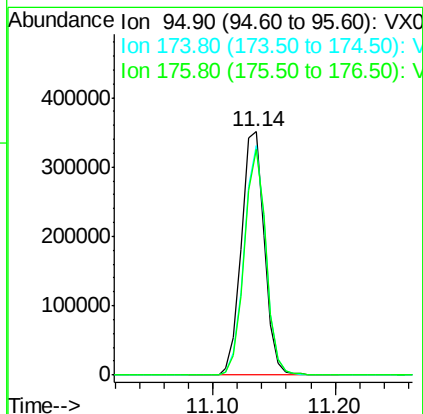
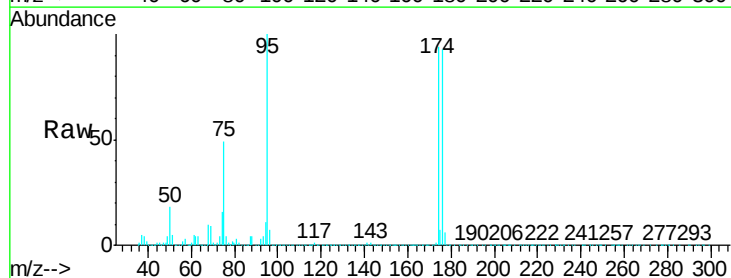
RT: 11.14 min Scan# 1681

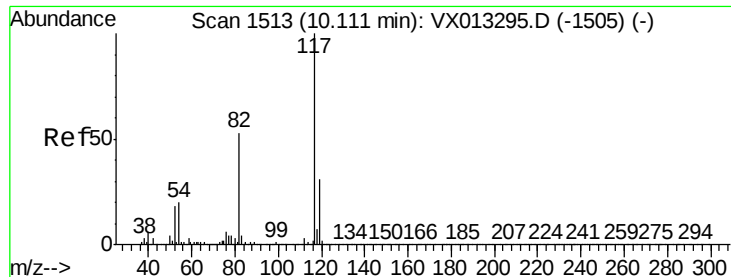
Delta R.T. 0.01 min

Lab File: VX013498.D

Acq: 21 Nov 2019 13:17

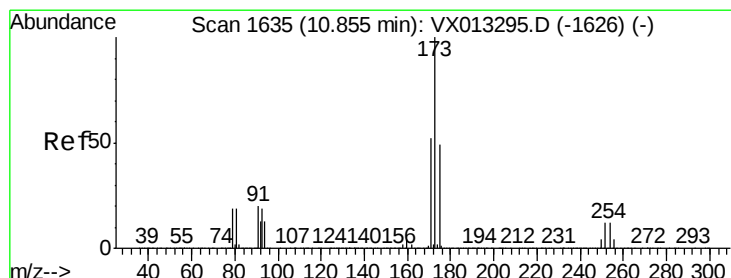
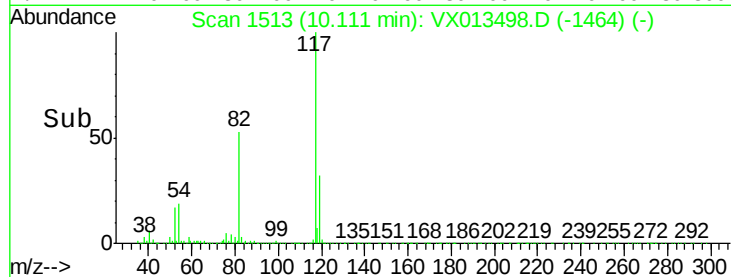
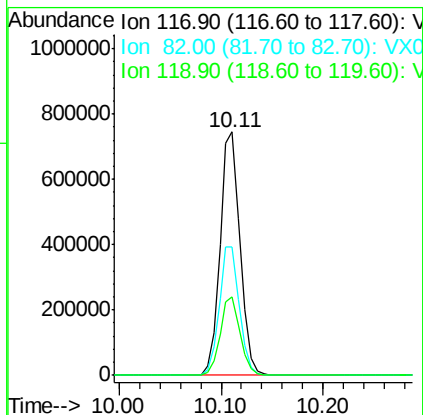
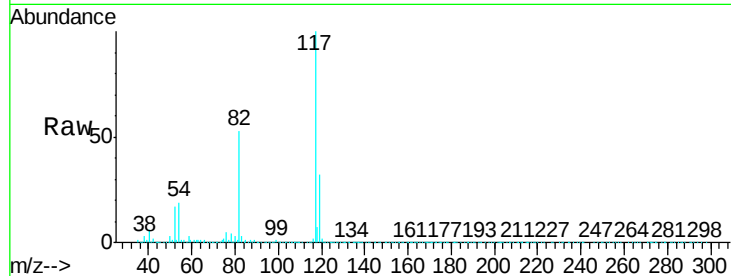
Tgt Ion:	95	Resp:	452692
Ion	Ratio	Lower	Upper
95	100		
174	89.7	0.0	179.8
176	88.2	0.0	173.0





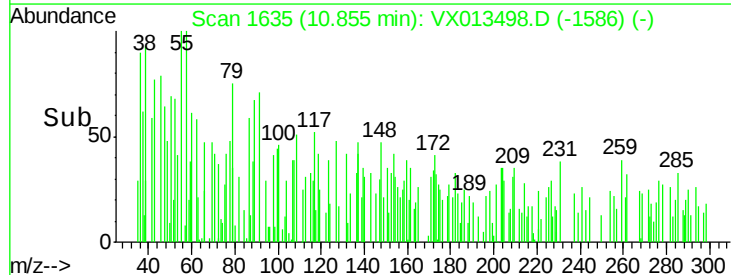
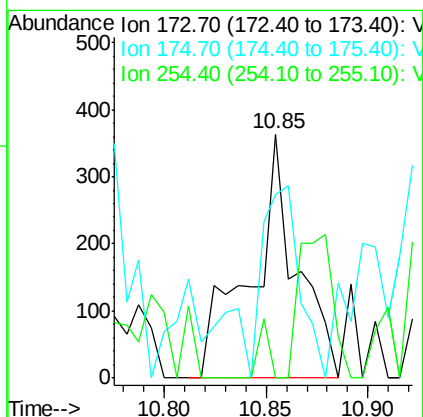
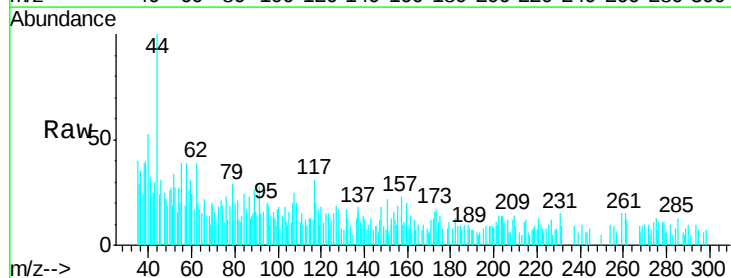
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013498.D
Acq: 21 Nov 2019 13:17

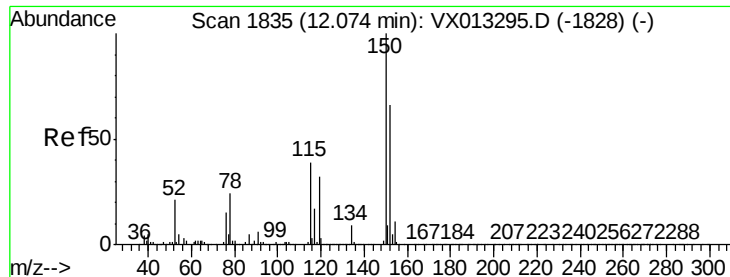
Tgt Ion:117 Resp: 1019863
Ion Ratio Lower Upper
117 100
82 52.7 42.6 64.0
119 32.1 24.8 37.2



#71
Bromoform
Concen: 3.279 ug/l
RT: 10.85 min Scan# 1635
Delta R.T. 0.00 min
Lab File: VX013498.D
Acq: 21 Nov 2019 13:17

Tgt Ion:173 Resp: 571
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 5.6 0.2 0.2#

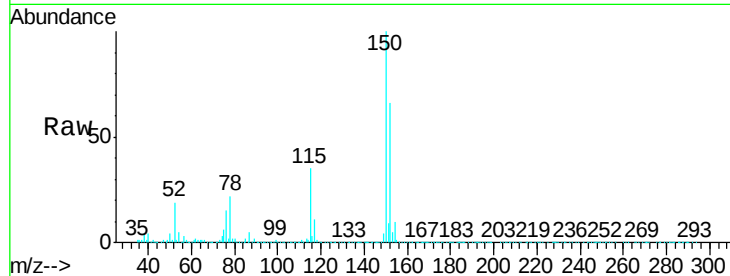




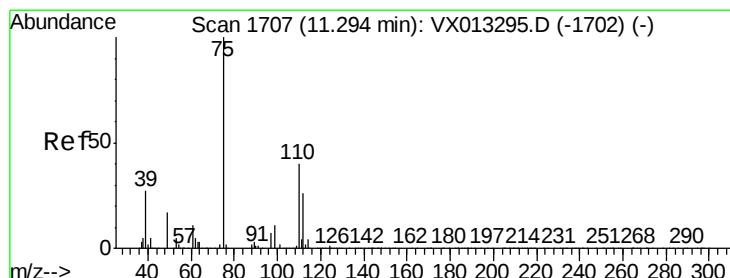
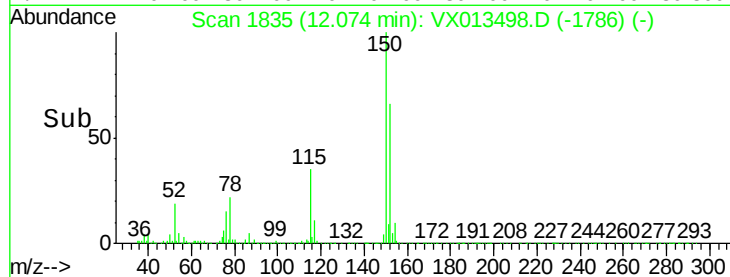
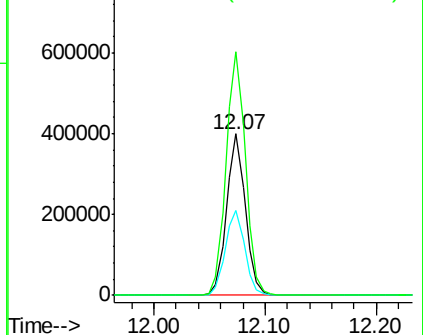
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013498.D
Acq: 21 Nov 2019 13:17

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	39.5	118.3
150	156.2	0.0	344.4



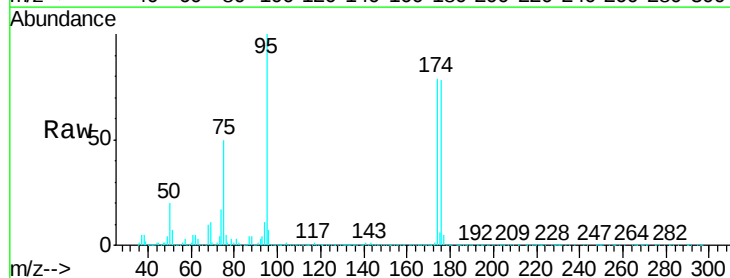
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



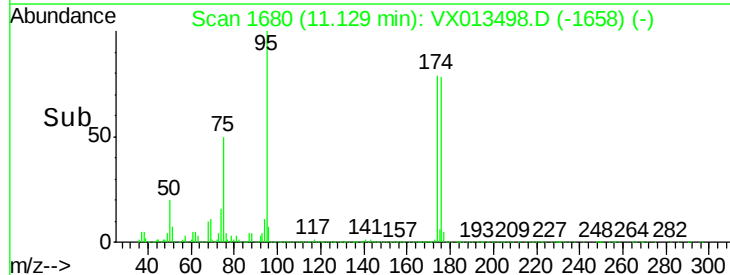
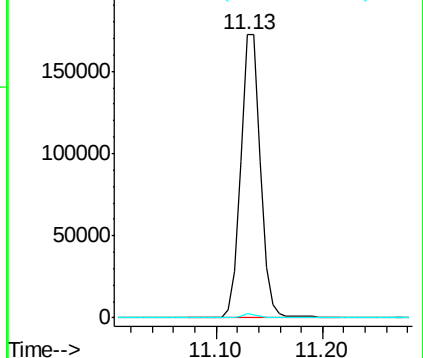
#76

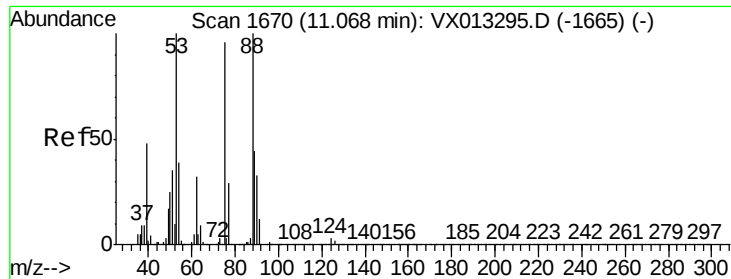
1,2,3-Trichloropropane
Concen: 23.805 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX013498.D
Acq: 21 Nov 2019 13:17

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.9	22.3	66.8#



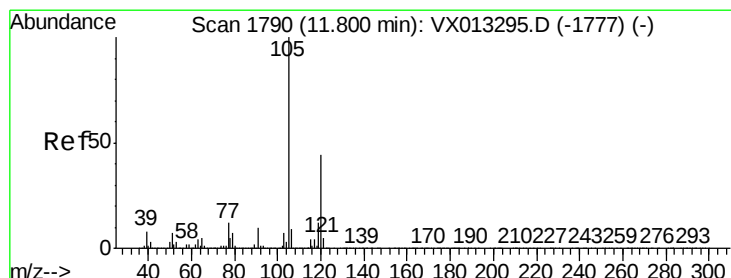
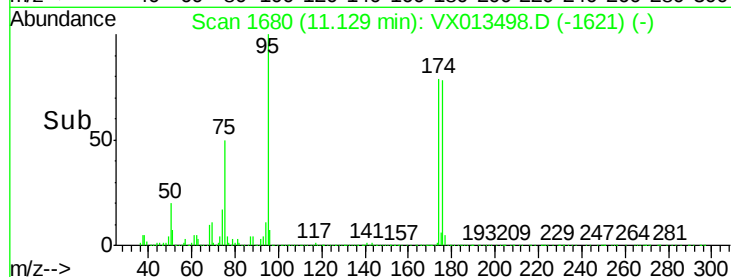
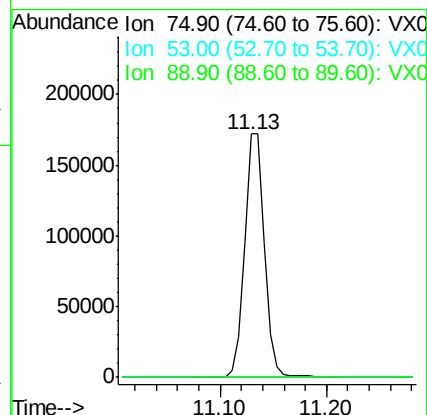
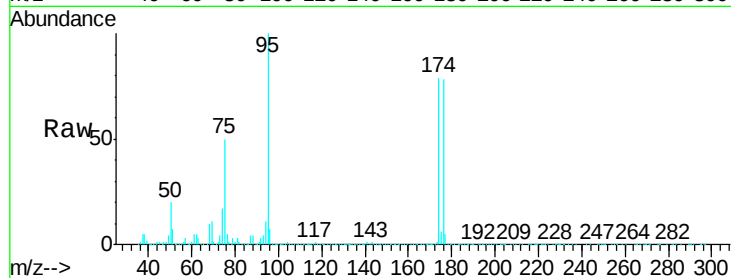
Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81
trans-1,4-Dichloro-2-butene
Concen: 61.273 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013498.D
Acq: 21 Nov 2019 13:17

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



#84
1,2,4-Trimethylbenzene
Concen: 1.001 ug/l
RT: 11.81 min Scan# 1791
Delta R.T. 0.01 min
Lab File: VX013498.D
Acq: 21 Nov 2019 13:17

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.3	22.7	68.1

