

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112119\
 Data File : VX013511.D
 Acq On : 21 Nov 2019 18:20
 Operator : JC/SP
 Sample : K5962-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Nov 22 01:11:15 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	706860	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1140697	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	1025870	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	453711	50.00	ug/l	0.00

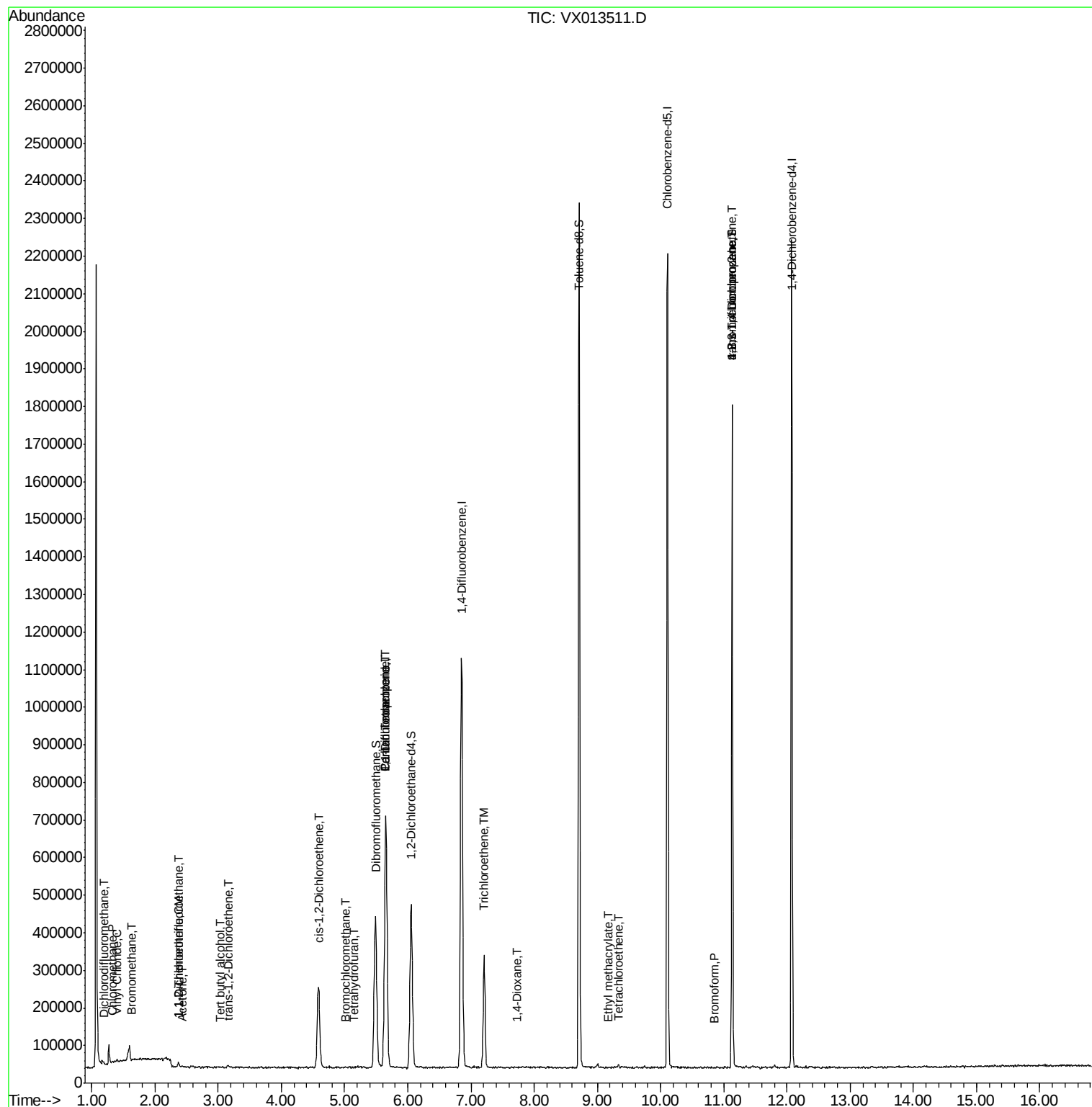
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	414537	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
35) Dibromofluoromethane	5.49	113	344289	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
50) Toluene-d8	8.71	98	1372931	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	11.14	95	454754	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	

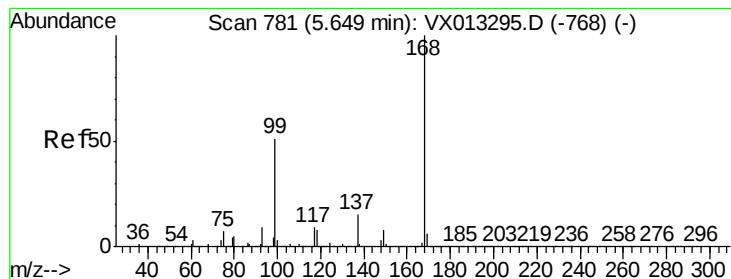
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	2696	0.331	ug/l	97
3) Chloromethane	1.32	50	2592	0.293	ug/l #	65
4) Vinyl Chloride	1.40	62	2936	0.292	ug/l #	86
5) Bromomethane	1.64	94	1601	0.228	ug/l #	49
6) Chloroethane	1.72	64	929	Below Cal	#	64
9) 1,1,2-Trichlorotrifluoroet	2.37	101	2987	0.451	ug/l #	80
11) Tert butyl alcohol	3.03	59	995	0.451	ug/l #	65
12) 1,1-Dichloroethene	2.37	96	3301	0.509	ug/l	81
16) Acetone	2.43	43	4112	0.984	ug/l	95
21) trans-1,2-Dichloroethene	3.16	96	3228	0.457	ug/l	85
27) cis-1,2-Dichloroethene	4.59	96	144774	18.306	ug/l	90
28) Bromochloromethane	5.00	49	974	0.270	ug/l #	86
29) Tetrahydrofuran	5.15	42	816	0.216	ug/l	92
36) 1,1-Dichloropropene	5.65	75	47885	4.893	ug/l #	42
38) Carbon Tetrachloride	5.65	117	60154	6.286	ug/l #	16
44) Trichloroethene	7.21	130	122831	14.639	ug/l	95
49) 1,4-Dioxane	7.72	88	181	0.841	ug/l #	1
56) Ethyl methacrylate	9.18	69	225	1.579	ug/l #	1
64) Tetrachloroethene	9.32	164	1705	0.232	ug/l #	55
71) Bromoform	10.85	173	512	3.270	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	224160	24.324	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.14	75	224160	62.610	ug/l #	9

(#) = 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: VX013511.D

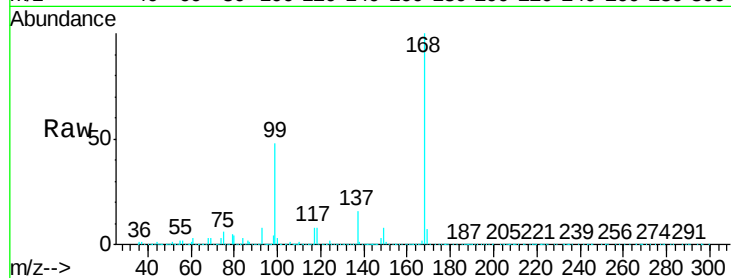
Acq: 21 Nov 2019 18:20

Tgt Ion: 168 Resp: 706860

Ion Ratio Lower Upper

168 100

99 48.1 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

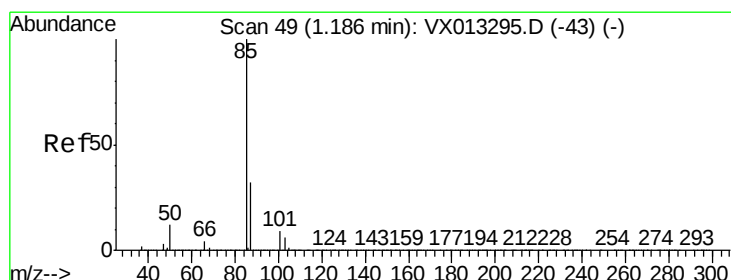
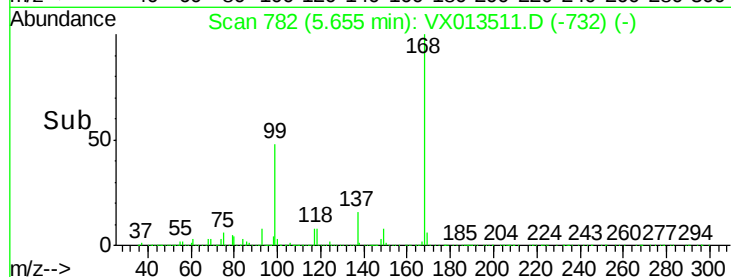
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.331 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.01 min

Lab File: VX013511.D

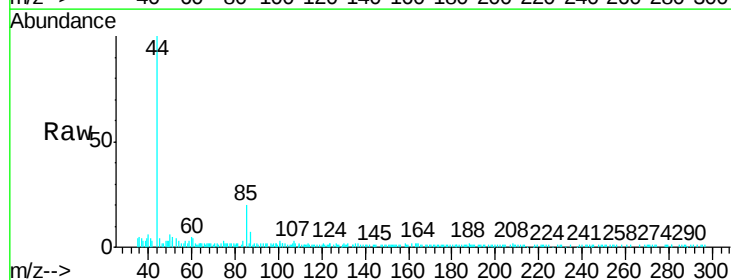
Acq: 21 Nov 2019 18:20

Tgt Ion: 85 Resp: 2696

Ion Ratio Lower Upper

85 100

87 30.3 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

2500

2000

1500

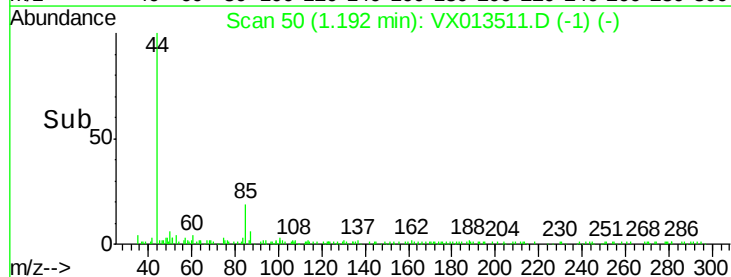
1000

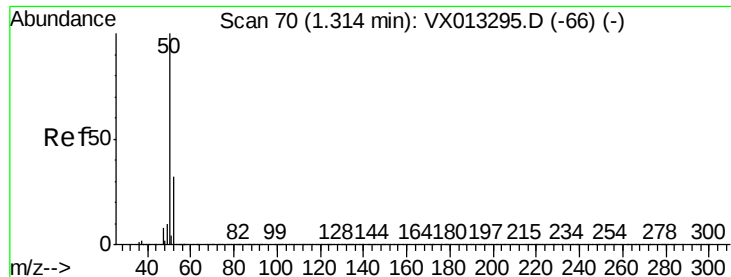
500

0

Time-->

1.16 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 0.293 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013511.D

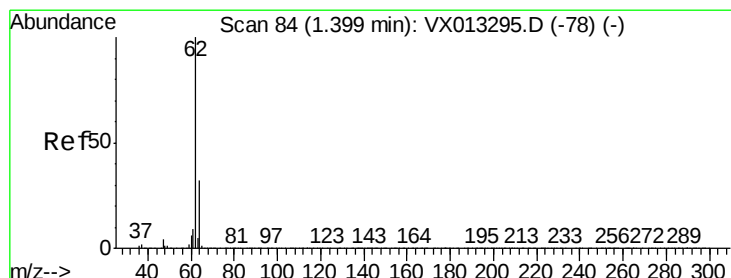
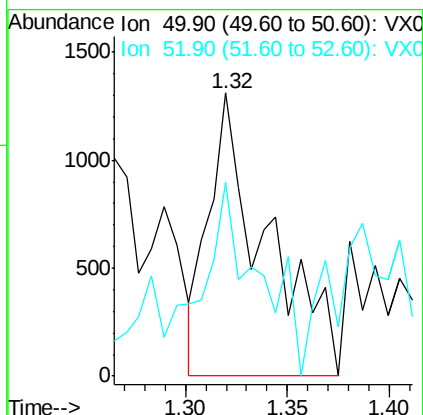
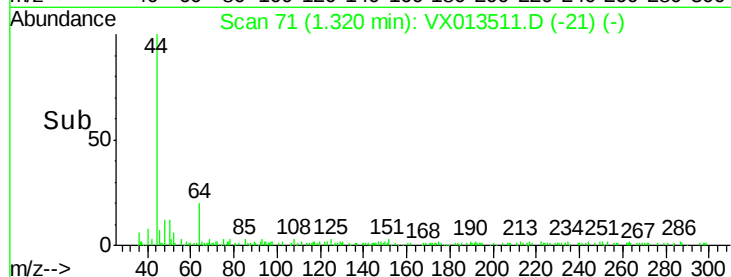
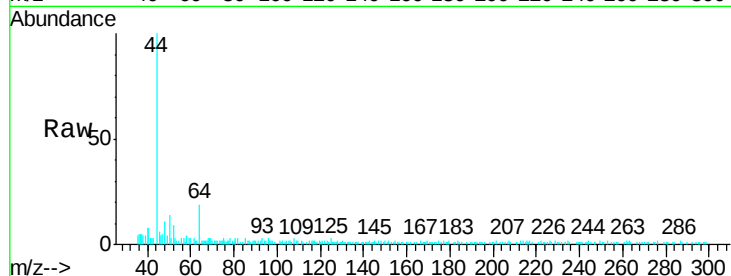
Acq: 21 Nov 2019 18:20

Tgt Ion: 50 Resp: 2592

Ion Ratio Lower Upper

50 100

52 51.3 25.5 38.3#



#4

Vinyl Chloride

Concen: 0.292 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013511.D

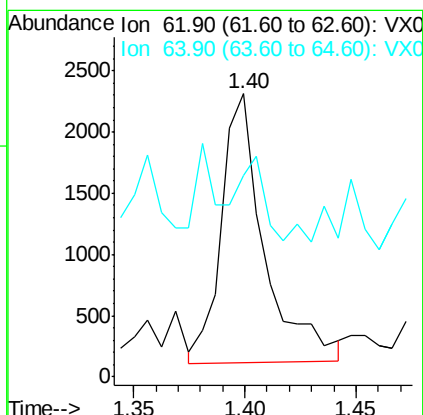
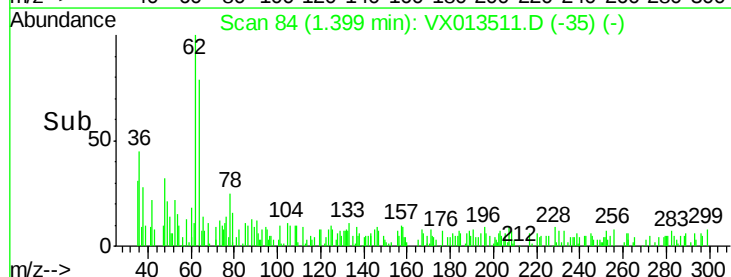
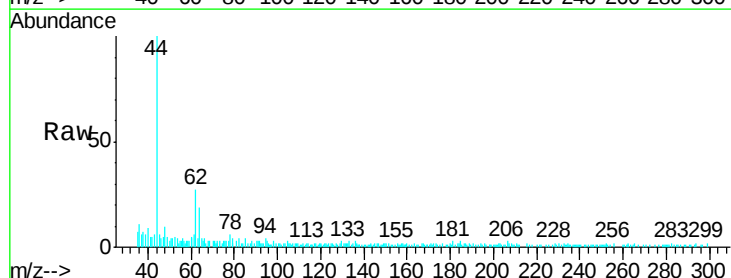
Acq: 21 Nov 2019 18:20

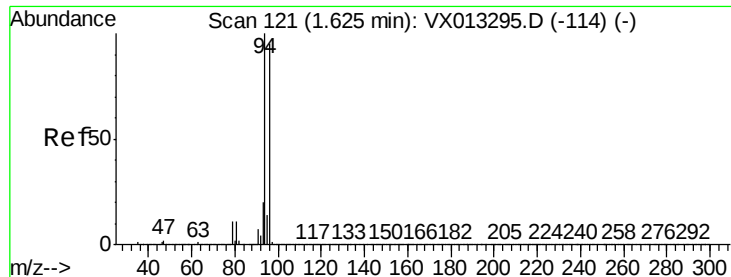
Tgt Ion: 62 Resp: 2936

Ion Ratio Lower Upper

62 100

64 24.3 25.6 38.4#





#5

Bromomethane

Concen: 0.228 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX013511.D

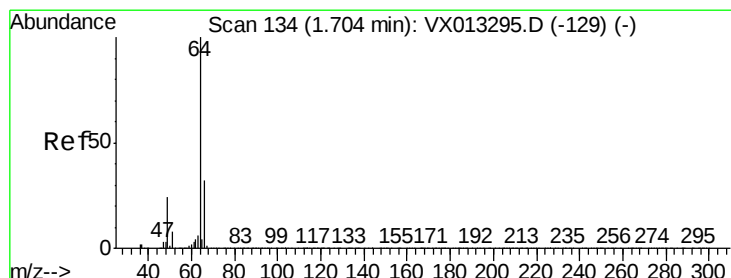
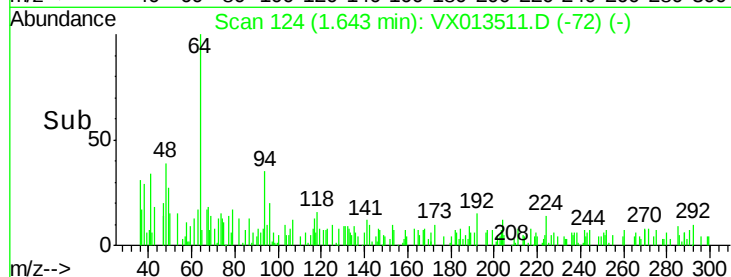
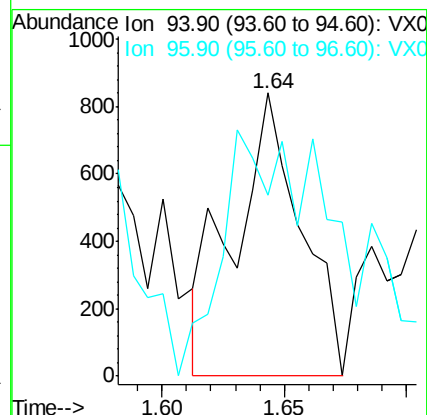
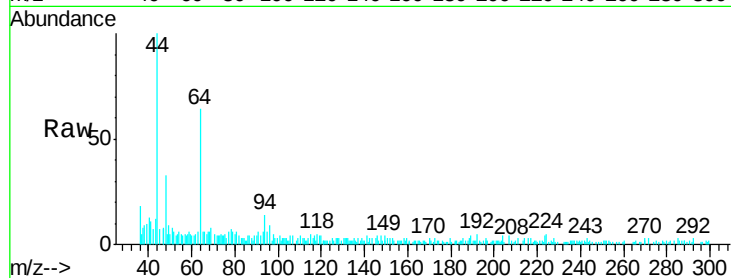
Acq: 21 Nov 2019 18:20

Tgt Ion: 94 Resp: 1601

Ion Ratio Lower Upper

94 100

96 45.5 75.8 113.8#



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX013511.D

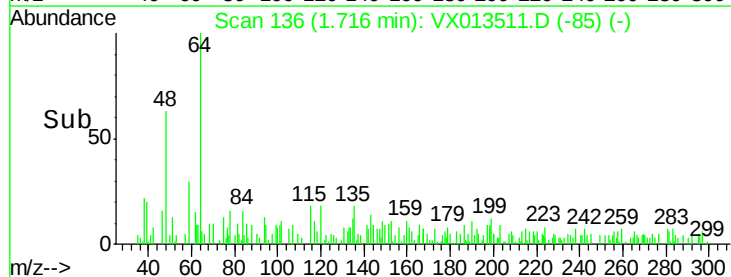
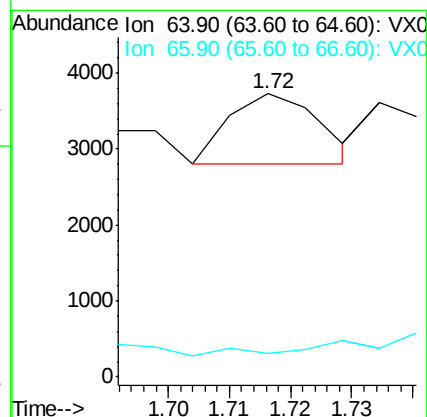
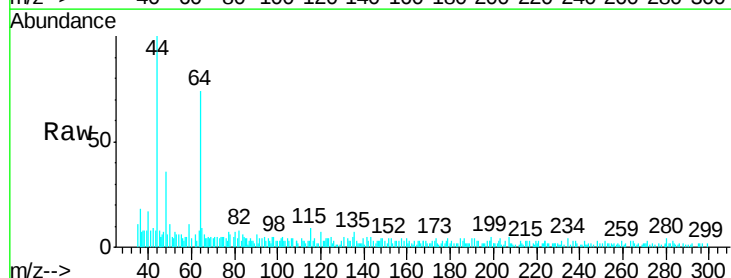
Acq: 21 Nov 2019 18:20

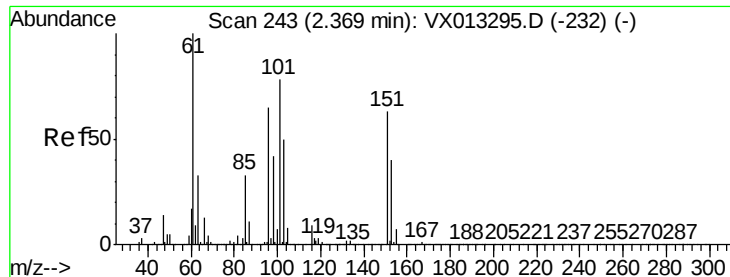
Tgt Ion: 64 Resp: 929

Ion Ratio Lower Upper

64 100

66 11.9 25.6 38.4#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.451 ug/l

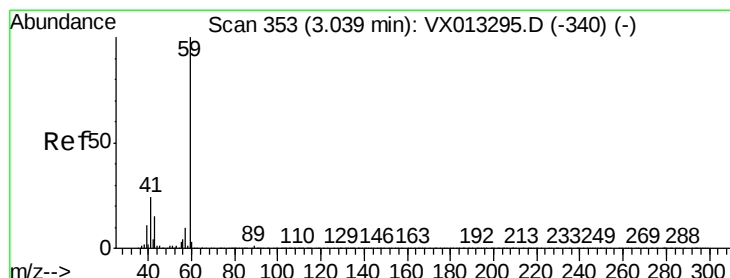
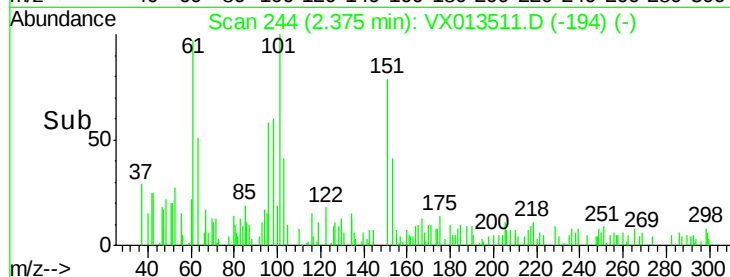
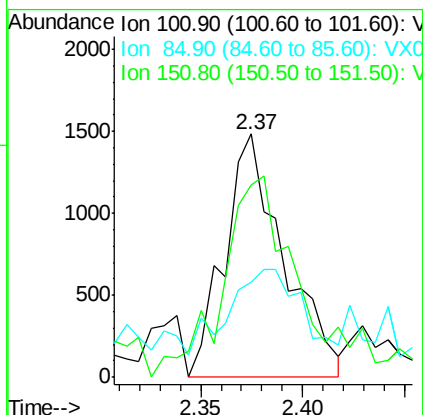
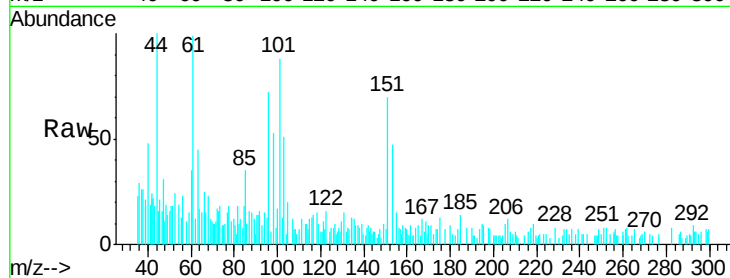
RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

Tgt Ion:	101	Resp:	2987
Ion	Ratio	Lower	Upper
101	100		
85	48.6	34.4	51.6
151	106.5	66.4	99.6#



#11

Tert butyl alcohol

Concen: 0.451 ug/l

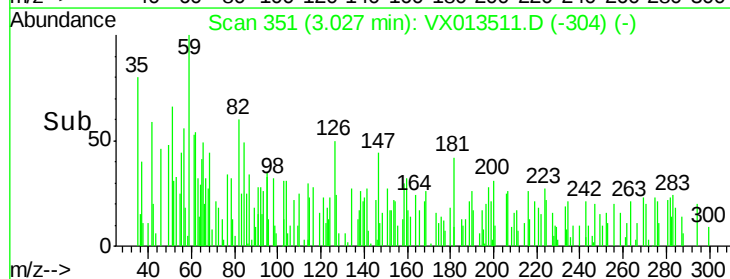
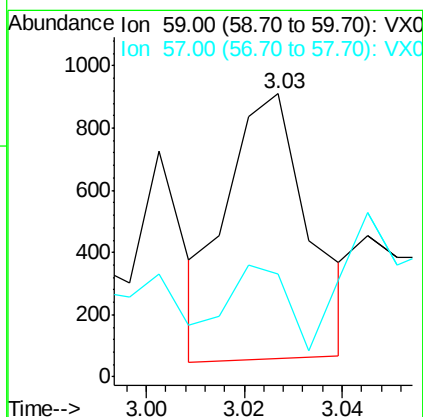
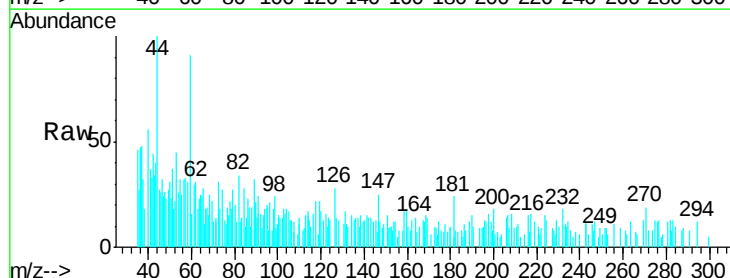
RT: 3.03 min Scan# 351

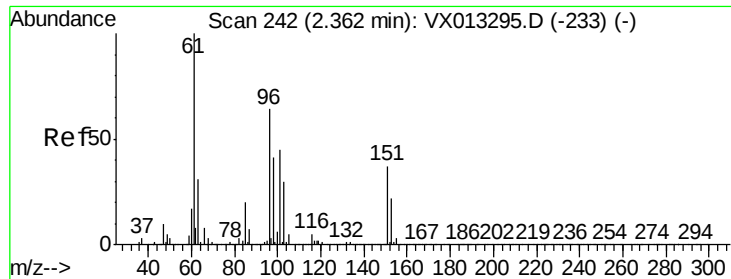
Delta R.T. -0.01 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

Tgt Ion:	59	Resp:	995
Ion	Ratio	Lower	Upper
59	100		
57	23.0	8.0	12.0#





#12

1,1-Dichloroethene

Concen: 0.509 ug/l

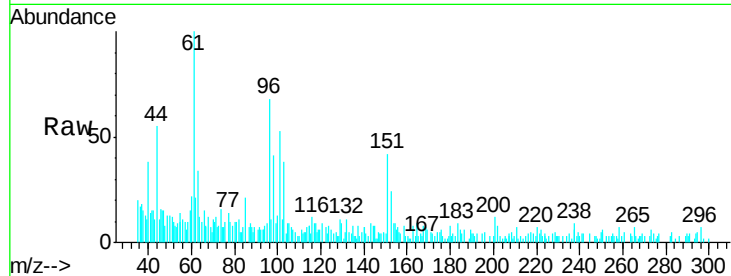
RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

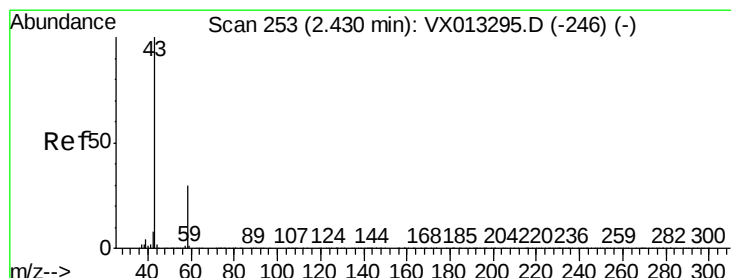
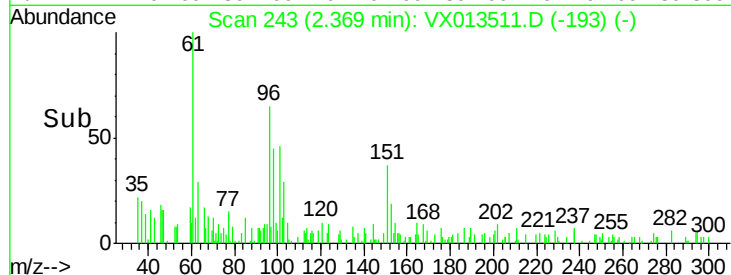
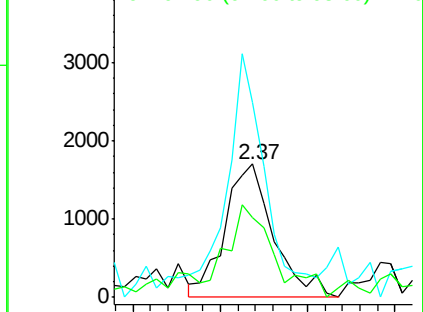
Tgt Ion:	96	Resp:	3301
Ion	Ratio	Lower	Upper
96	100		
61	129.0	125.0	187.6
98	52.6	50.7	76.1



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#16

Acetone

Concen: 0.984 ug/l

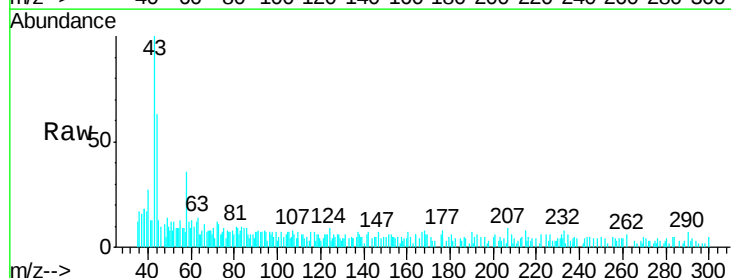
RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013511.D

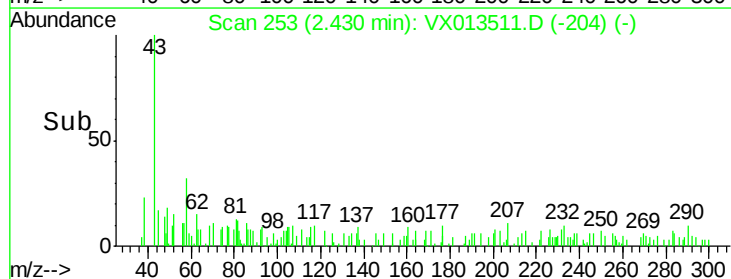
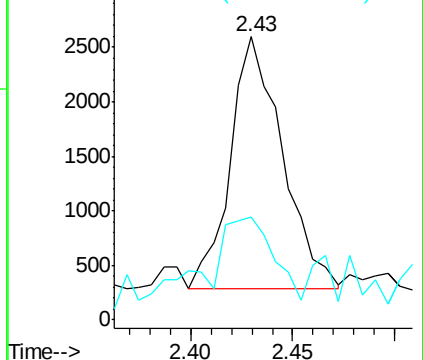
Acq: 21 Nov 2019 18:20

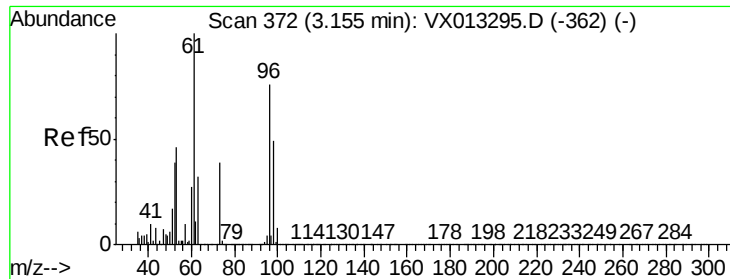
Tgt Ion:	43	Resp:	4112
Ion	Ratio	Lower	Upper
43	100		
58	33.3	24.3	36.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.457 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

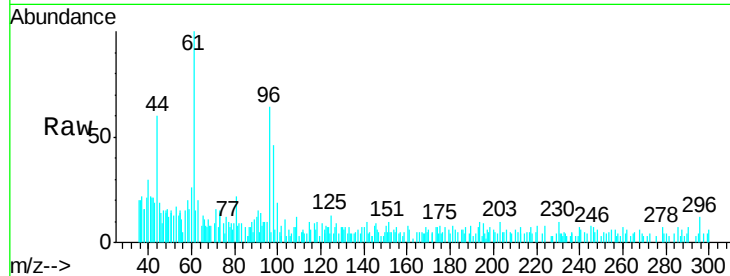
Tgt Ion: 96 Resp: 3228

Ion Ratio Lower Upper

96 100

61 154.6 105.8 158.6

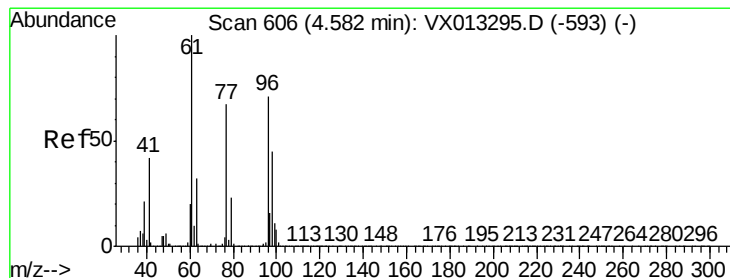
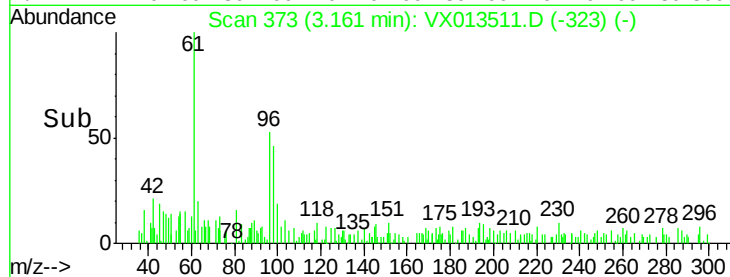
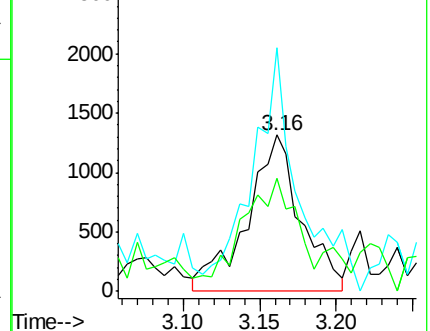
98 69.5 51.8 77.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 18.306 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

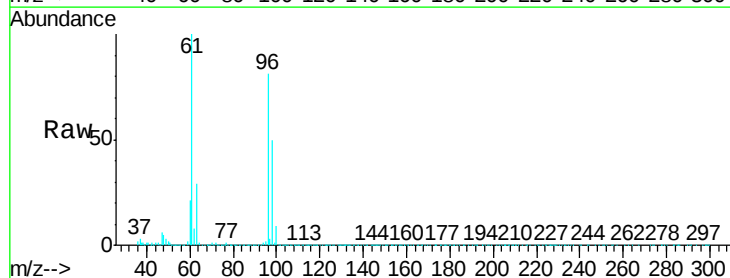
Tgt Ion: 96 Resp: 144774

Ion Ratio Lower Upper

96 100

61 125.5 0.0 288.0

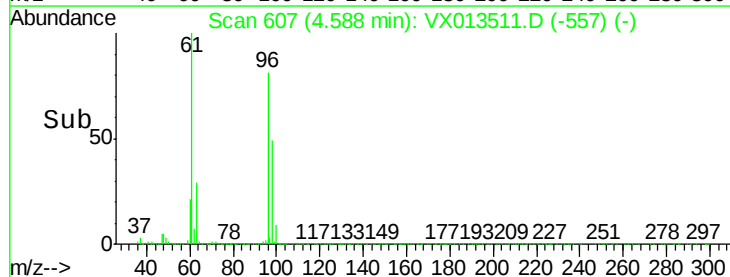
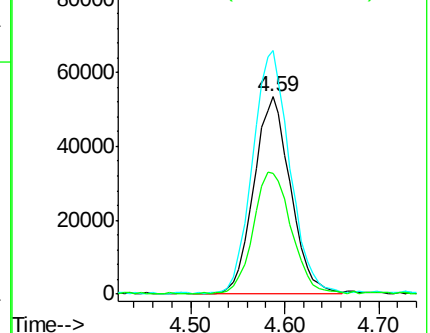
98 64.5 0.0 129.6

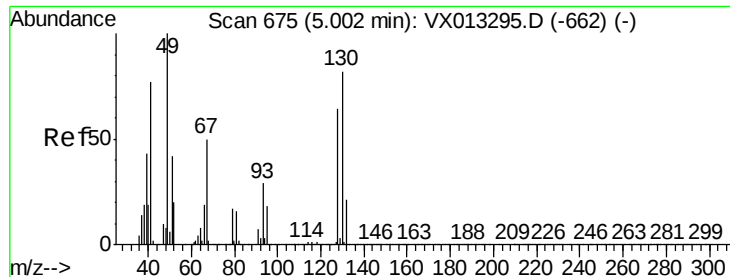


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: 0.270 ug/l

RT: 5.00 min Scan# 675

Delta R.T. -0.00 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

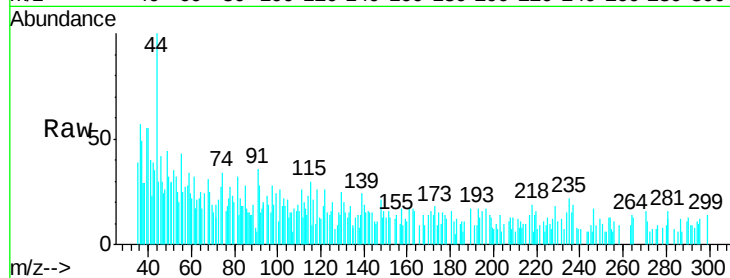
Tgt Ion: 49 Resp: 974

Ion Ratio Lower Upper

49 100

129 35.1 0.0 5.2#

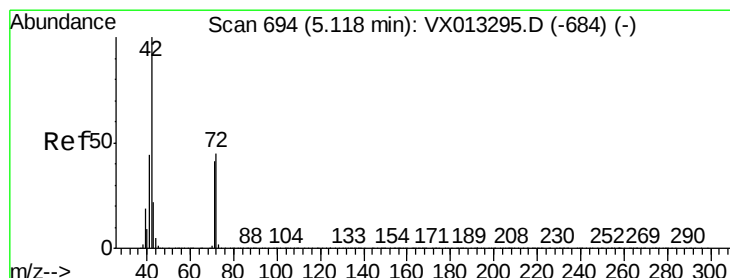
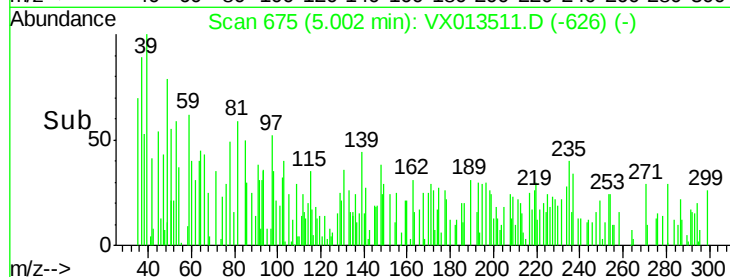
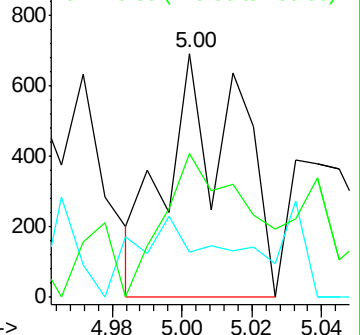
130 69.6 63.8 95.6



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



#29

Tetrahydrofuran

Concen: 0.216 ug/l

RT: 5.15 min Scan# 700

Delta R.T. 0.04 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

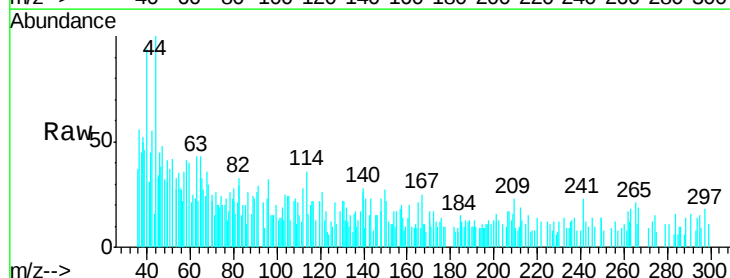
Tgt Ion: 42 Resp: 816

Ion Ratio Lower Upper

42 100

72 41.3 35.8 53.8

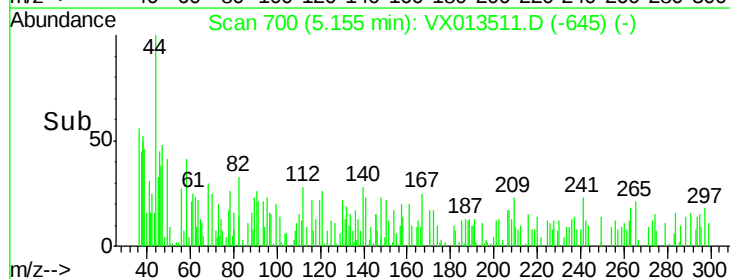
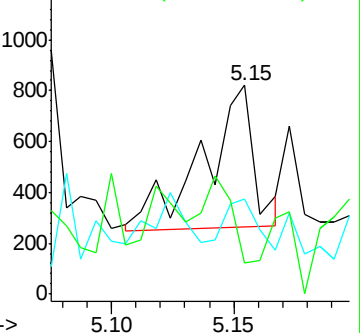
71 35.0 33.4 50.0

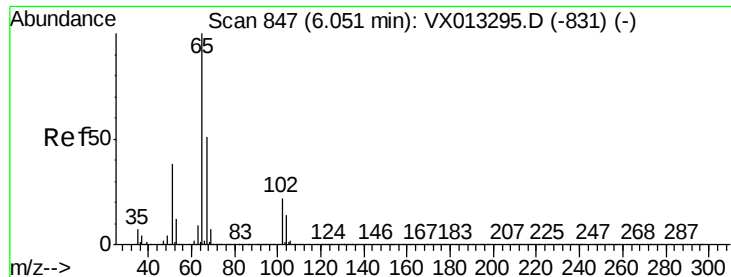


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.502 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013511.D

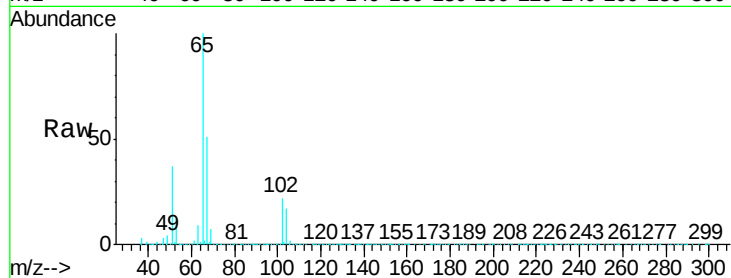
Acq: 21 Nov 2019 18:20

Tgt Ion: 65 Resp: 414537

Ion Ratio Lower Upper

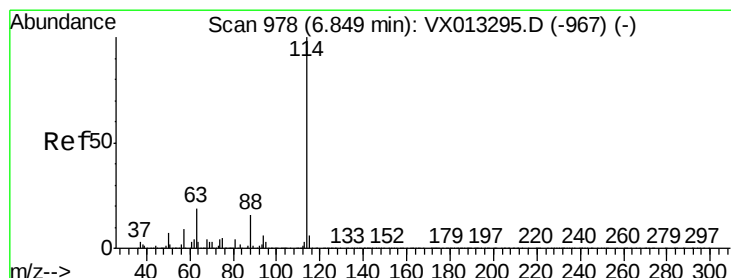
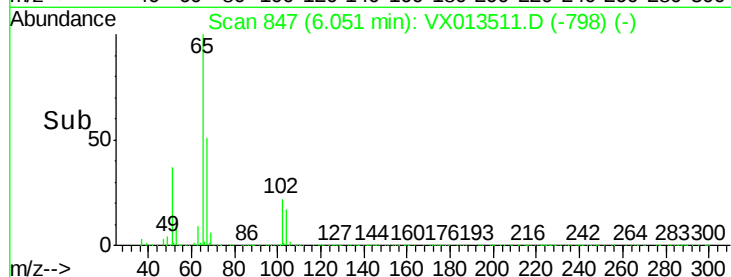
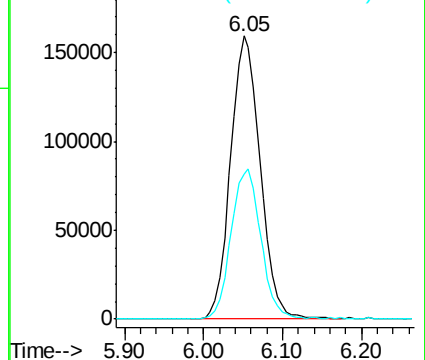
65 100

67 53.0 0.0 104.2



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# 978

Delta R.T. -0.00 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

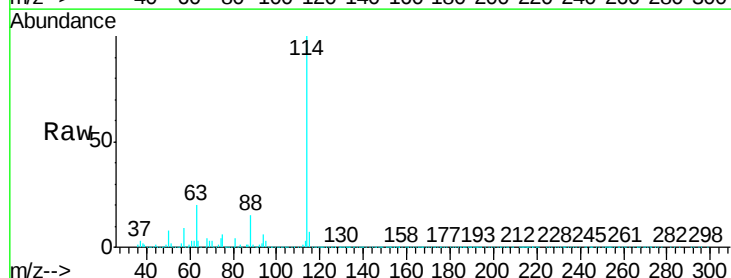
Tgt Ion: 114 Resp: 1140697

Ion Ratio Lower Upper

114 100

63 20.4 0.0 38.4

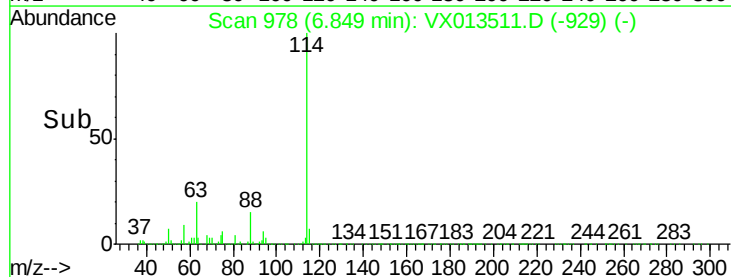
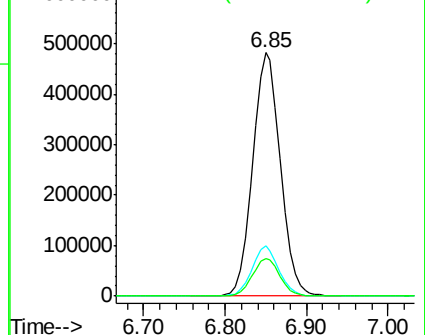
88 15.4 0.0 32.2

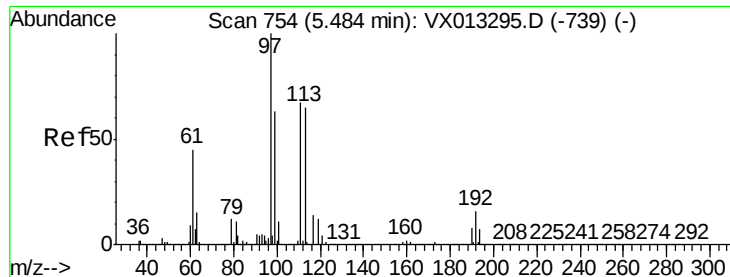


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.121 ug/l

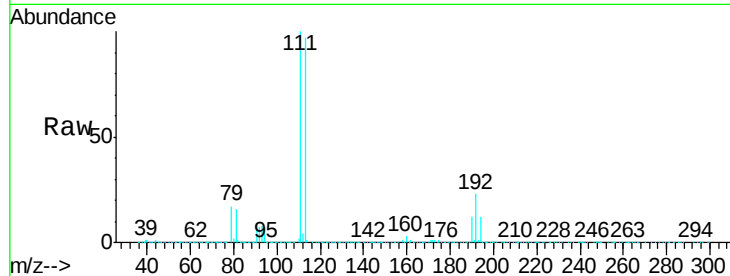
RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

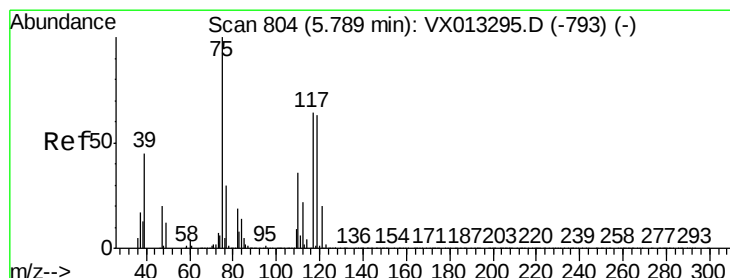
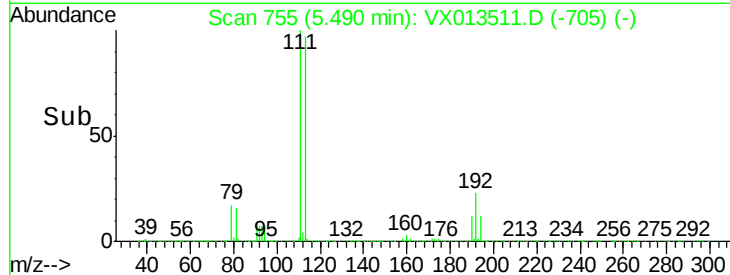
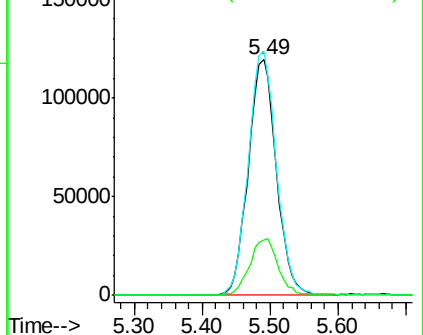
Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

Tgt Ion:	113	Resp:	344289
Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.9	122.9
192	24.2	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: 4.893 ug/l

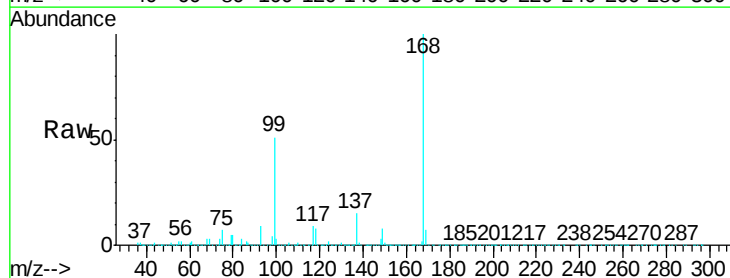
RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

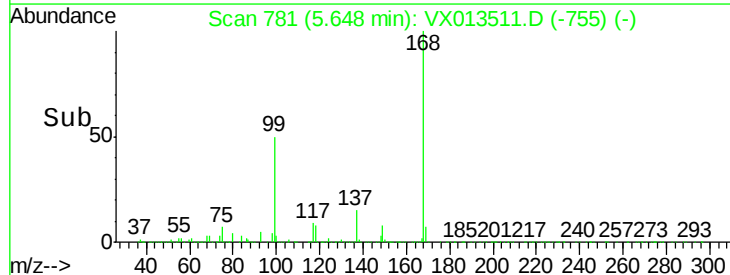
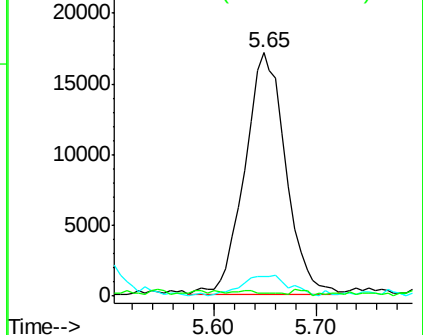
Lab File: VX013511.D

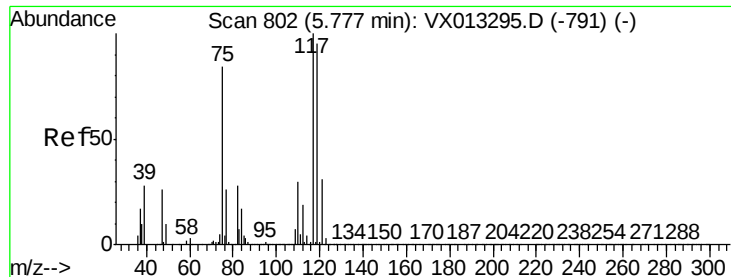
Acq: 21 Nov 2019 18:20

Tgt Ion:	75	Resp:	47885
Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.1	54.1#
77	0.9	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





#38

Carbon Tetrachloride

Concen: 6.286 ug/l

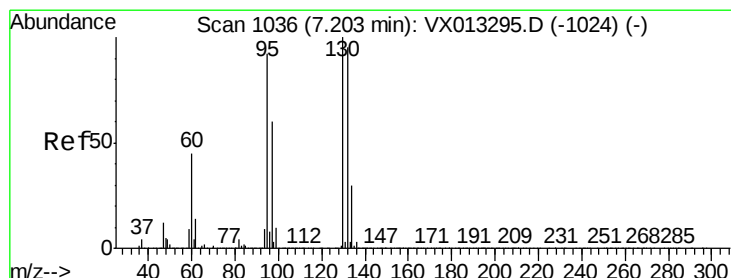
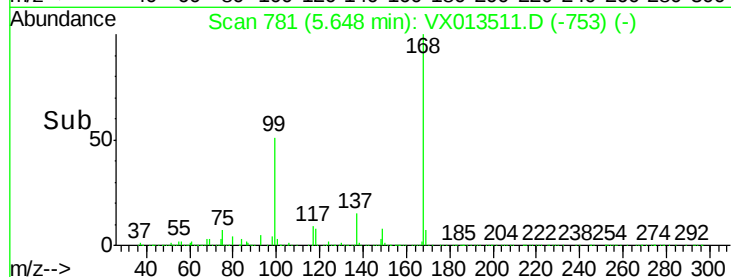
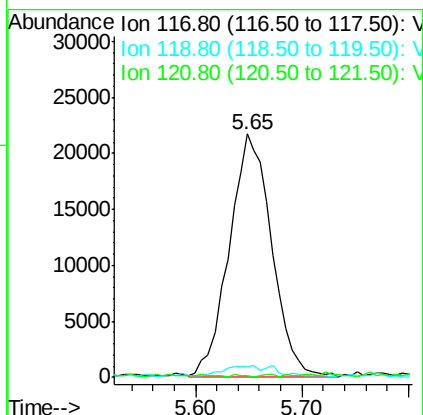
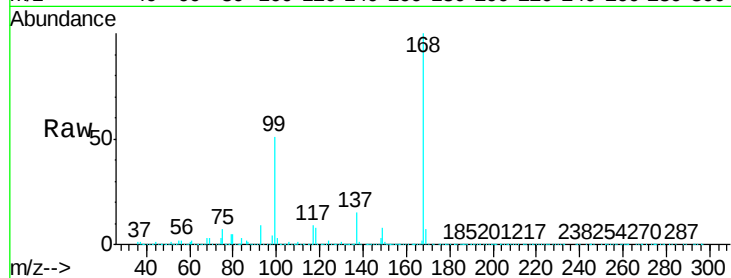
RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

Tgt Ion:	117	Resp:	60154
Ion Ratio	Lower	Upper	
117	100		
119	3.9	76.1	114.1#
121	0.3	24.6	37.0#



#44

Trichloroethene

Concen: 14.639 ug/l

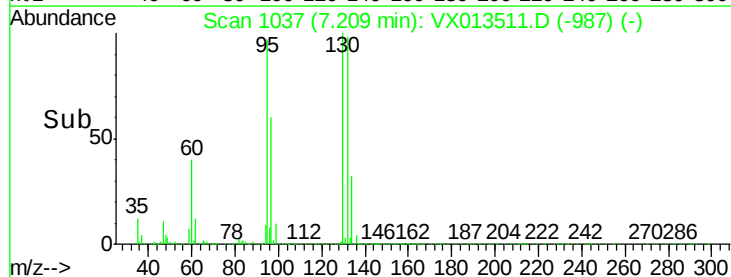
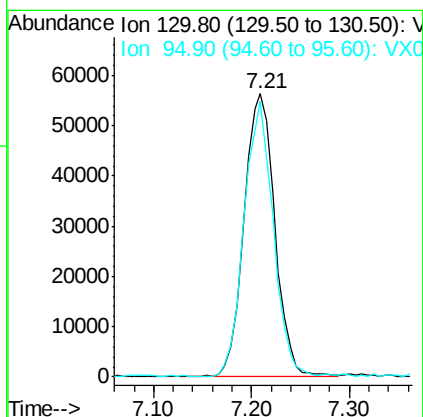
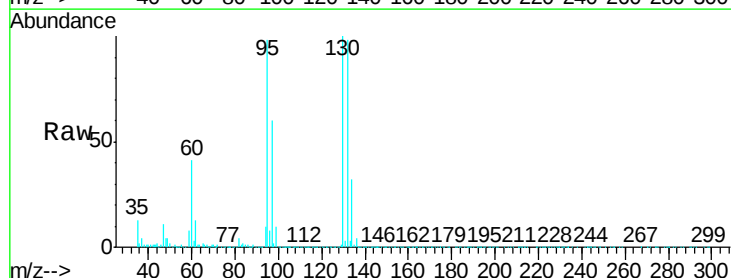
RT: 7.21 min Scan# 1037

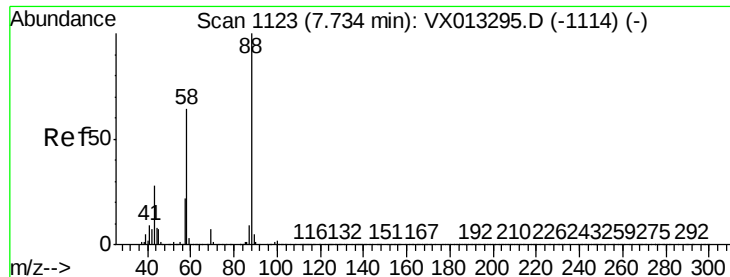
Delta R.T. 0.01 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

Tgt Ion:	130	Resp:	122831
Ion Ratio	Lower	Upper	
130	100		
95	97.3	0.0	184.8





#49

1,4-Dioxane

Concen: 0.841 ug/l

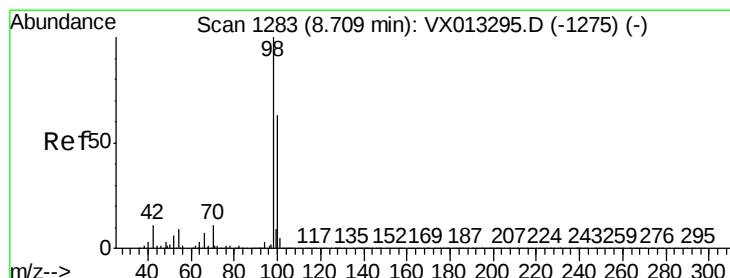
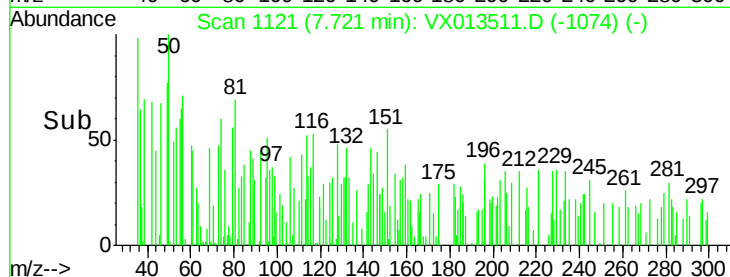
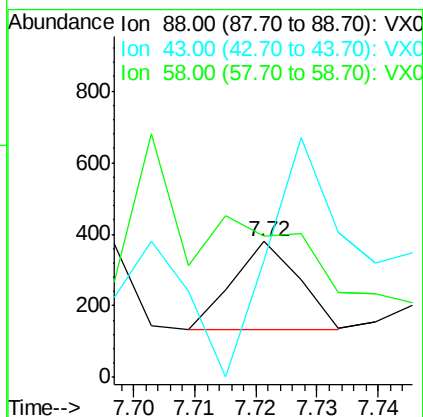
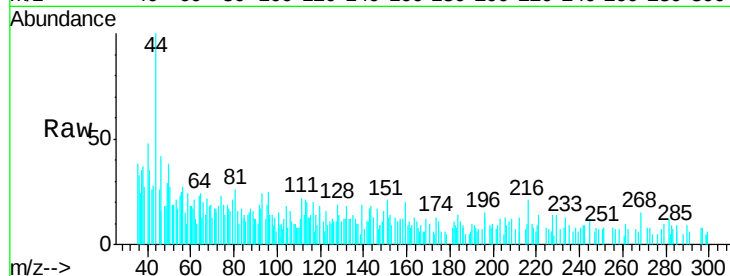
RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

Tgt Ion:	88	Resp:	181
Ion	Ratio	Lower	Upper
88	100		
43	347.5	26.6	39.8#
58	0.0	55.0	82.6#



#50

Toluene-d8

Concen: 50.902 ug/l

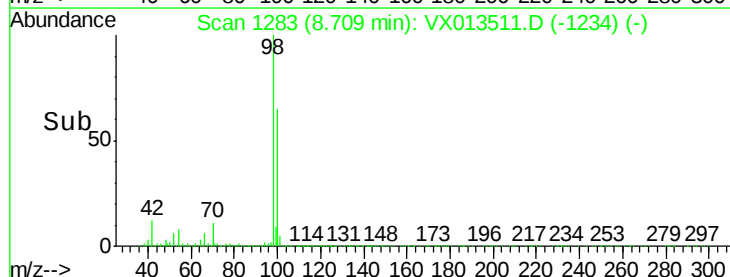
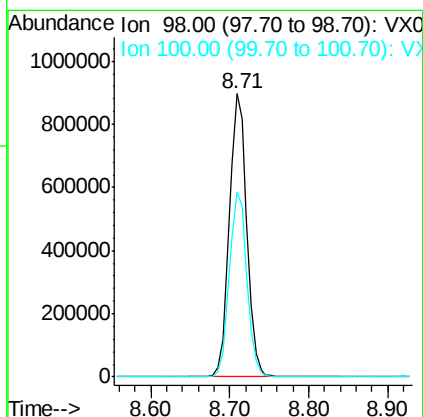
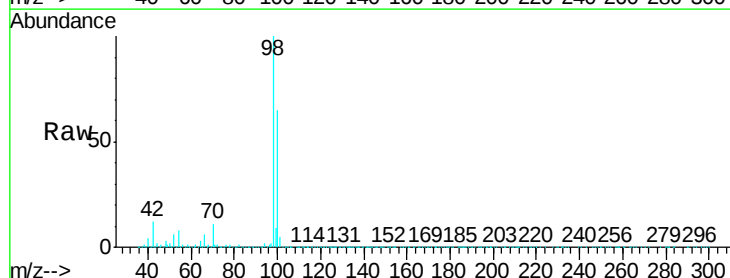
RT: 8.71 min Scan# 1283

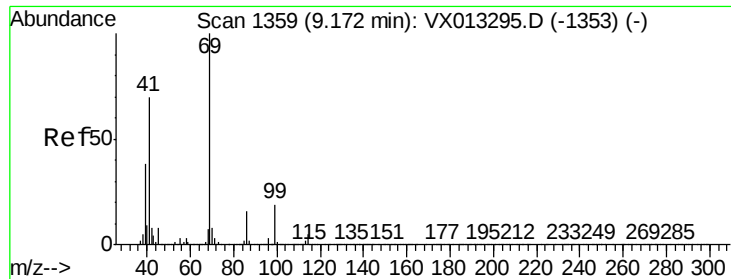
Delta R.T. -0.00 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

Tgt Ion:	98	Resp:	1372931
Ion	Ratio	Lower	Upper
98	100		
100	65.8	52.2	78.2





#56

Ethyl methacrylate

Concen: 1.579 ug/l

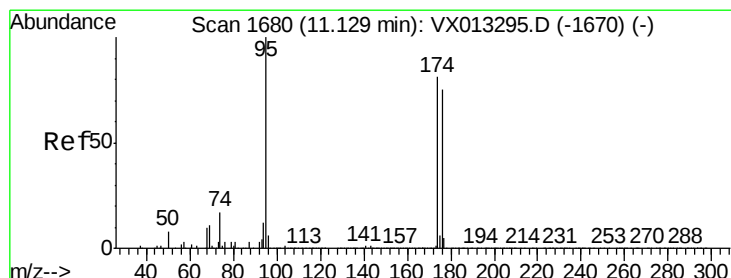
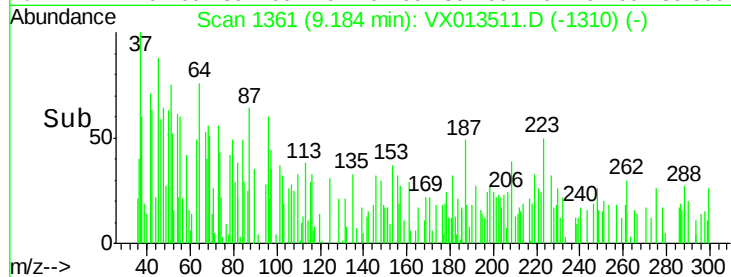
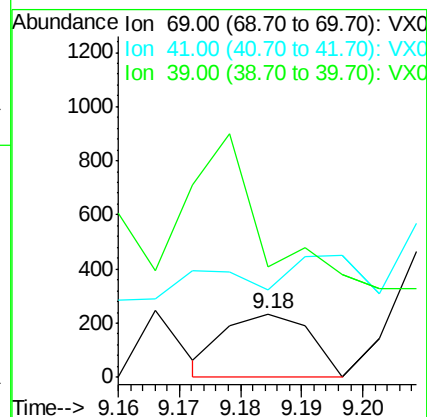
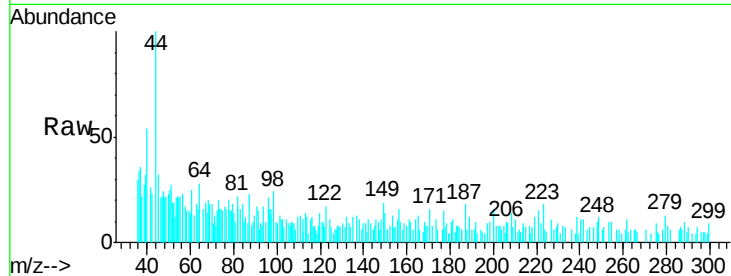
RT: 9.18 min Scan# 1361

Delta R.T. 0.01 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

Tgt Ion:	69	Resp:	225
Ion	Ratio	Lower	Upper
69	100		
41	0.0	56.2	84.2#
39	361.8	31.1	46.7#



#62

4-Bromofluorobenzene

Concen: 46.716 ug/l

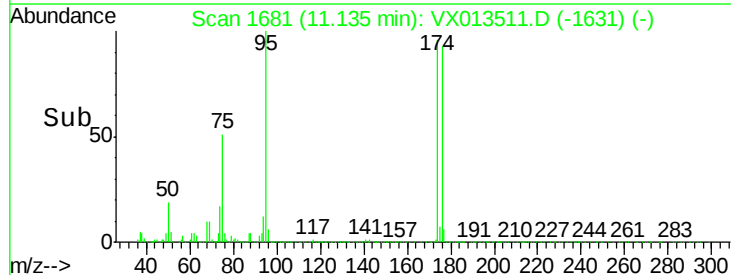
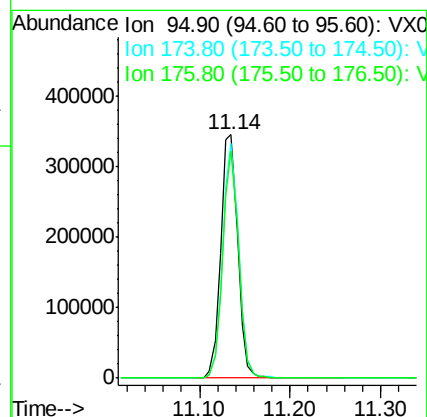
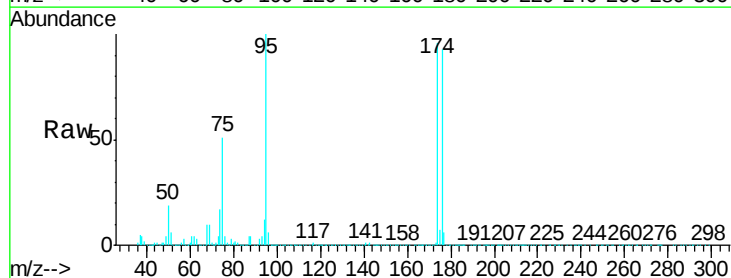
RT: 11.14 min Scan# 1681

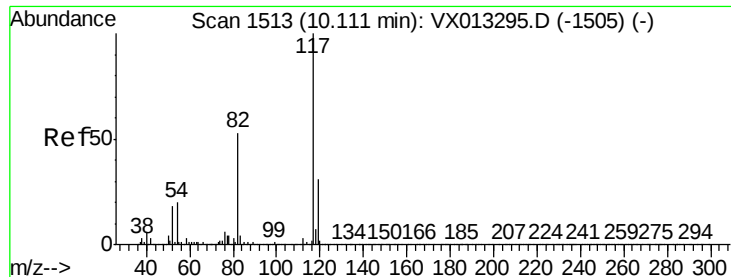
Delta R.T. 0.01 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

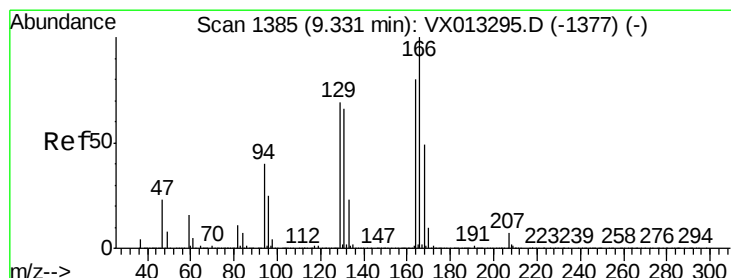
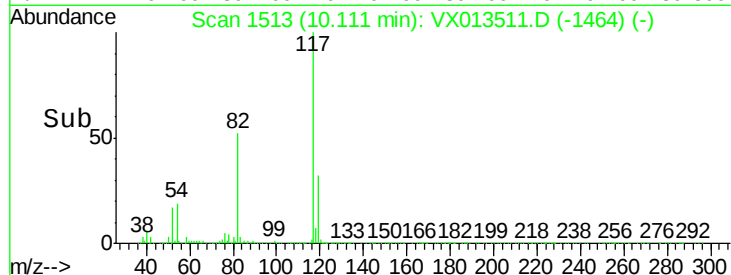
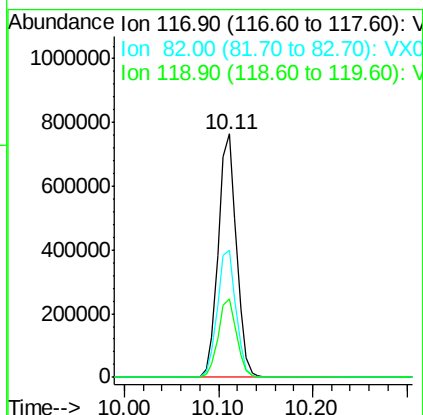
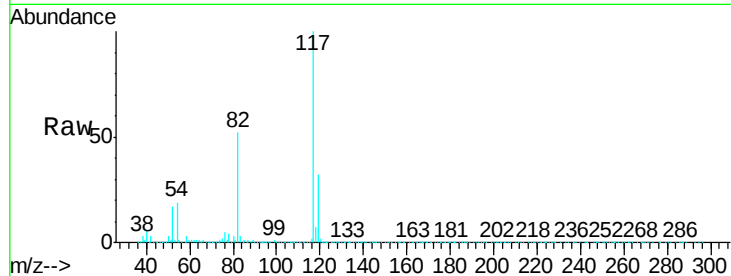
Tgt Ion:	95	Resp:	454754
Ion	Ratio	Lower	Upper
95	100		
174	91.2	0.0	179.8
176	87.4	0.0	173.0





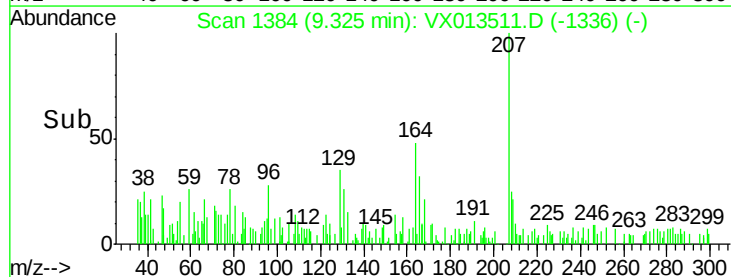
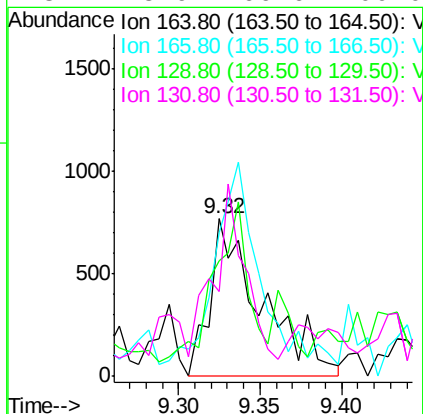
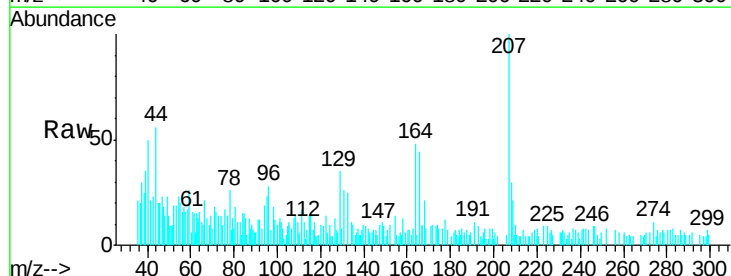
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013511.D
Acq: 21 Nov 2019 18:20

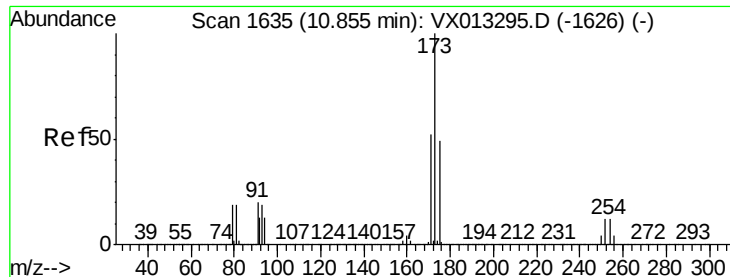
Tgt Ion:117 Resp: 1025870
Ion Ratio Lower Upper
117 100
82 52.0 42.6 64.0
119 32.2 24.8 37.2



#64
Tetrachloroethene
Concen: 0.232 ug/l
RT: 9.32 min Scan# 1384
Delta R.T. -0.01 min
Lab File: VX013511.D
Acq: 21 Nov 2019 18:20

Tgt Ion:164 Resp: 1705
Ion Ratio Lower Upper
164 100
166 83.6 100.4 150.6#
129 51.6 69.4 104.2#
131 25.9 66.6 100.0#





#71

Bromoform

Concen: 3.270 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

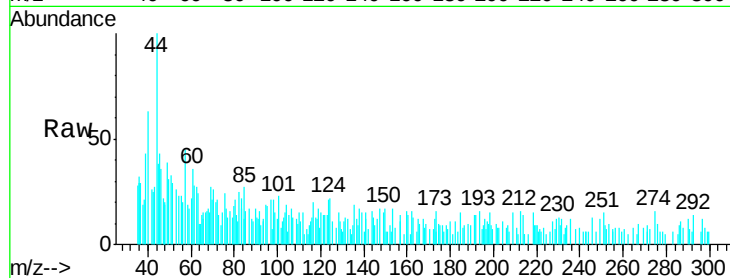
Tgt Ion:173 Resp: 512

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

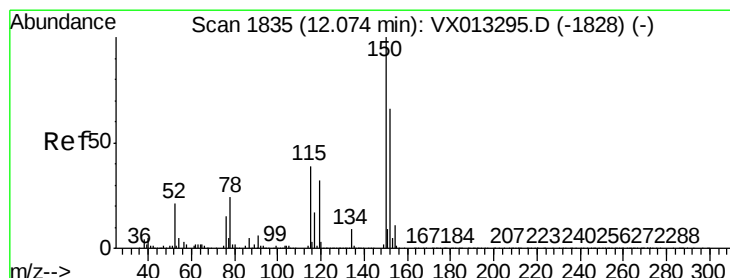
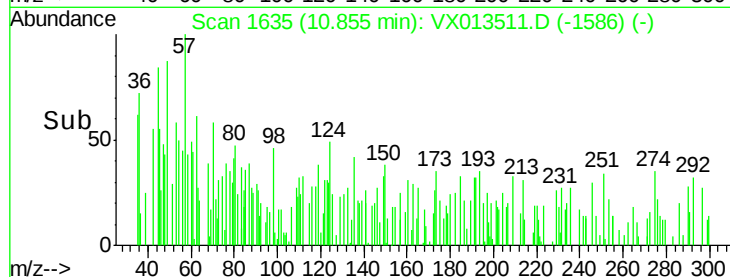
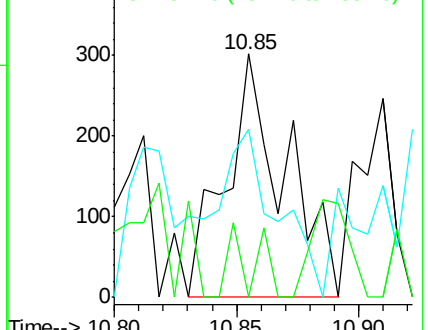
254 12.9 0.2 0.2#



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# 1835

Delta R.T. -0.00 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

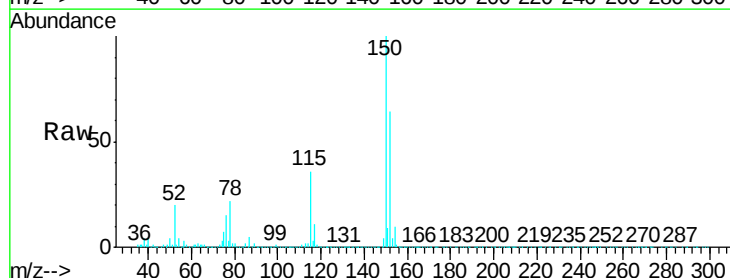
Tgt Ion:152 Resp: 453711

Ion Ratio Lower Upper

152 100

115 55.5 39.5 118.3

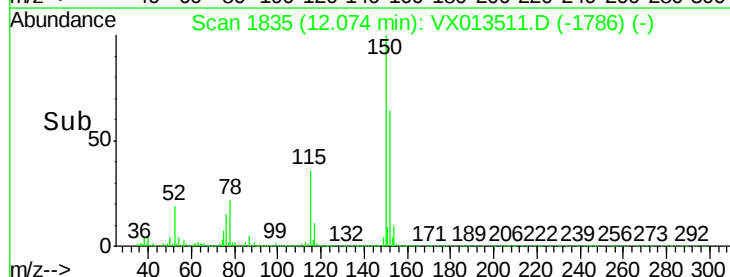
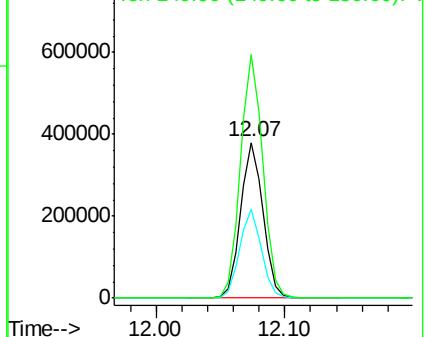
150 157.4 0.0 344.4

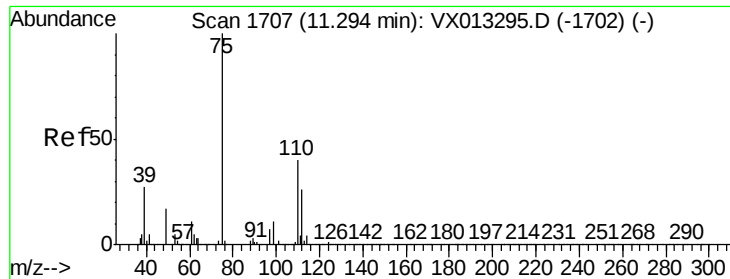


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 24.324 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013511.D

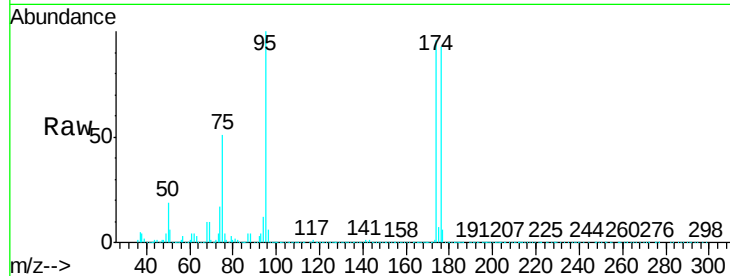
Acq: 21 Nov 2019 18:20

Tgt Ion: 75 Resp: 224160

Ion Ratio Lower Upper

75 100

77 1.4 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

200000

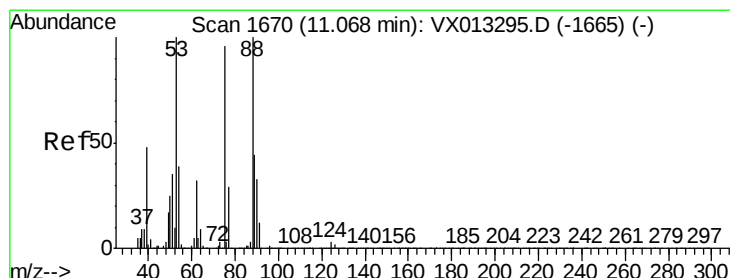
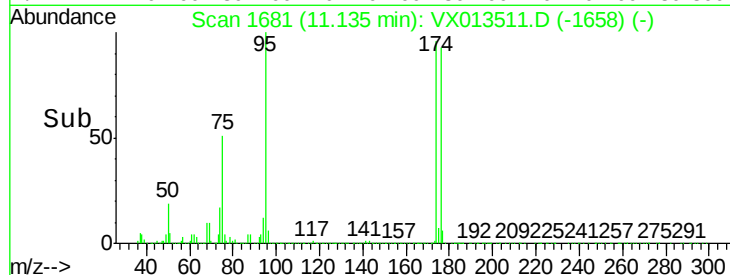
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 62.610 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013511.D

Acq: 21 Nov 2019 18:20

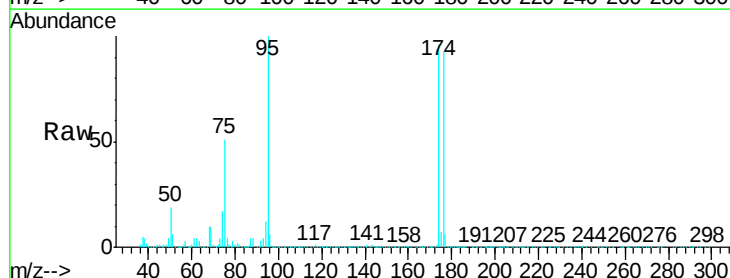
Tgt Ion: 75 Resp: 224160

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.0 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

11.14

200000

150000

100000

50000

0

Time-->

