

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012919\
 Data File : VX007293.D
 Acq On : 29 Jan 2019 17:29
 Operator : JC/SP
 Sample : PB116677ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 30 00:46:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	526947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	815528	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	794663	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	382709	50.00	ug/l	0.00

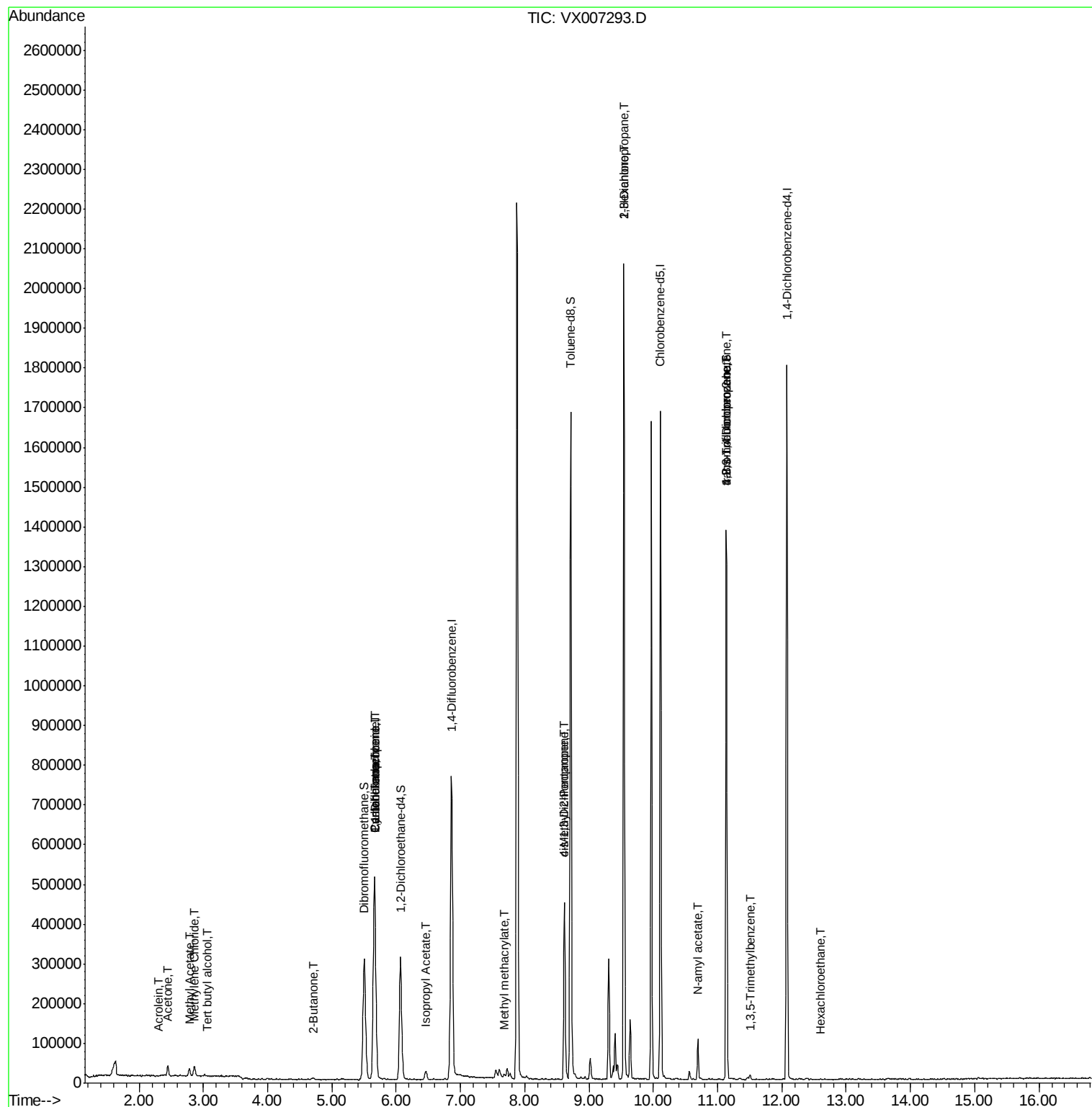
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	281478	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
35) Dibromofluoromethane	5.50	113	258215	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
50) Toluene-d8	8.71	98	1005291	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	
62) 4-Bromofluorobenzene	11.13	95	356592	53.51	ug/l	0.00
Spiked Amount			Recovery	=	107.02%	

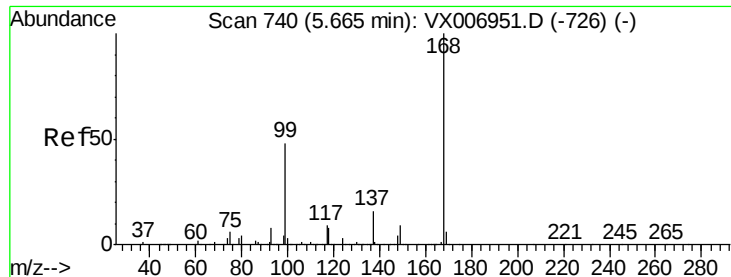
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.07	59	286	0.220	ug/l #	1
13) Acrolein	2.29	56	290	3.595	ug/l	93
16) Acetone	2.45	43	29668	10.897	ug/l	98
18) Methyl Acetate	2.78	43	23802	3.019	ug/l	95
20) Methylene Chloride	2.86	84	12635	1.896	ug/l	94
25) 2-Butanone	4.71	43	7529	1.933	ug/l #	89
31) Cyclohexane	5.67	56	9973	1.284	ug/l #	13
36) 1,1-Dichloropropene	5.67	75	33519	4.727	ug/l #	49
38) Carbon Tetrachloride	5.66	117	47644	6.679	ug/l #	14
43) Isopropyl Acetate	6.46	43	28466	2.374	ug/l	98
48) Methyl methacrylate	7.68	41	13258	2.153	ug/l #	12
49) 1,4-Dioxane	7.73	88	99	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	143468	18.618	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	71171	8.932	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	17570	1.927	ug/l #	45
59) 2-Hexanone	9.54	43	220032	37.470	ug/l #	51
74) N-amyl acetate	10.69	43	21269	1.958	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	171440	22.106	ug/l #	41
80) 1,3,5-Trimethylbenzene	11.51	105	4892	0.217	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	171440	65.448	ug/l #	10
90) Hexachloroethane	12.60	117	51	2.921	ug/l #	6

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

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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jan 30 00:12:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007293.D

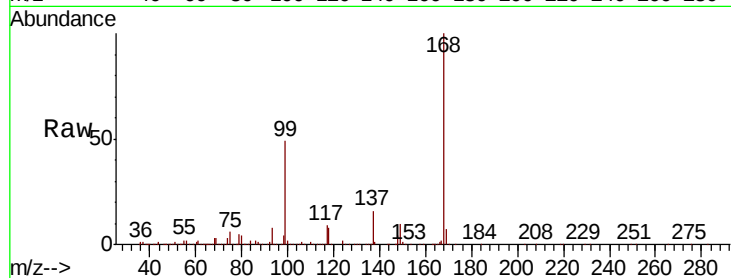
Acq: 29 Jan 2019 17:29

Tot Ion:168 Resp: 526947

Ion Ratio Lower Upper

168 100

99 48.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

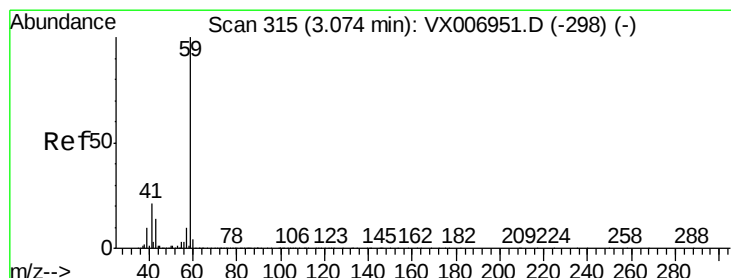
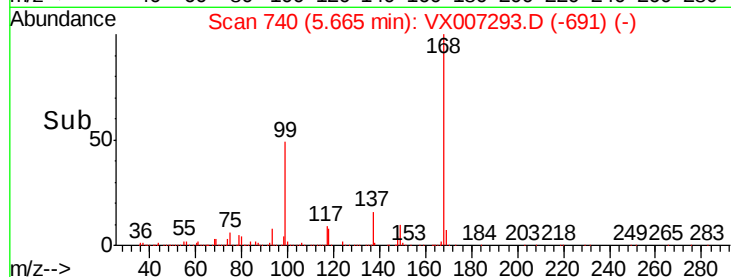
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.220 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX007293.D

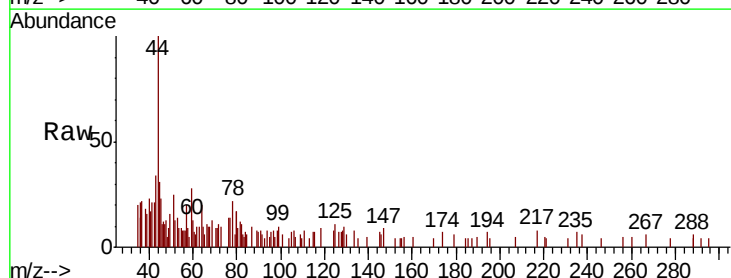
Acq: 29 Jan 2019 17:29

Tgt Ion: 59 Resp: 286

Ion Ratio Lower Upper

59 100

57 204.5 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.07

500

400

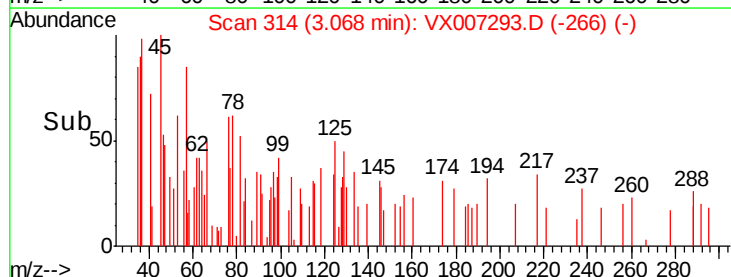
300

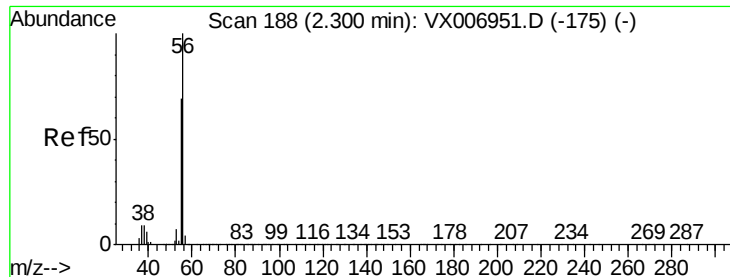
200

100

0

Time-->





#13

Acrolein

Concen: 3.595 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007293.D

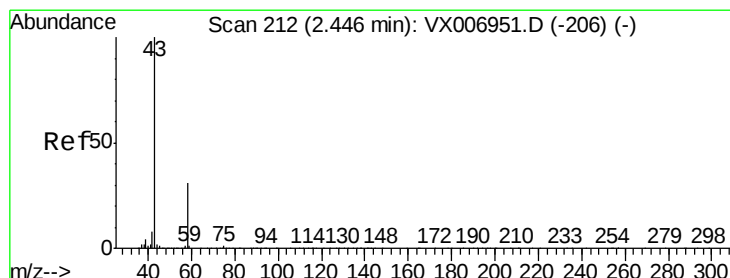
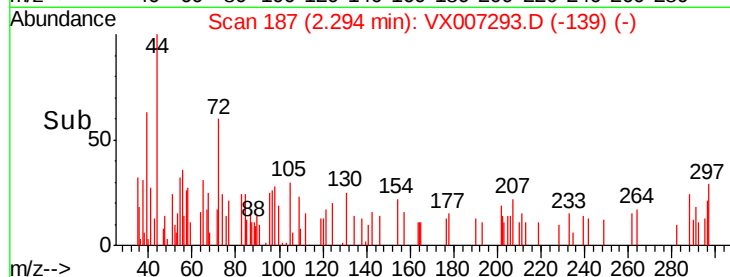
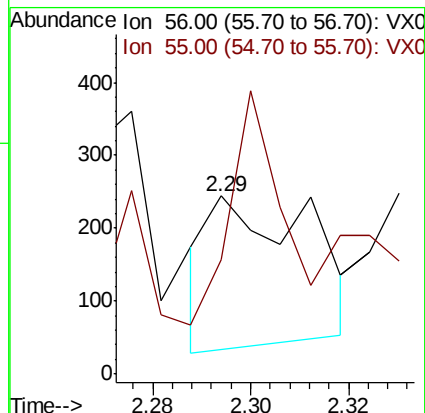
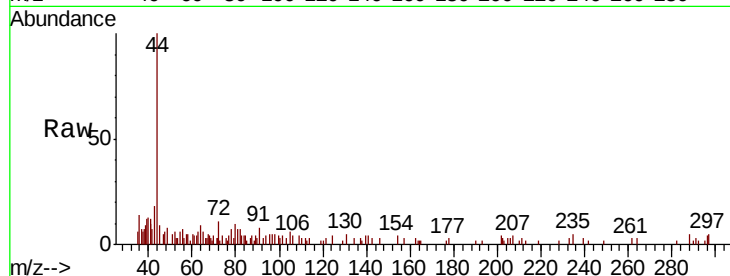
Acq: 29 Jan 2019 17:29

Tot Ion: 56 Resp: 290

Ion Ratio Lower Upper

56 100

55 78.3 58.2 87.4



#16

Acetone

Concen: 10.897 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007293.D

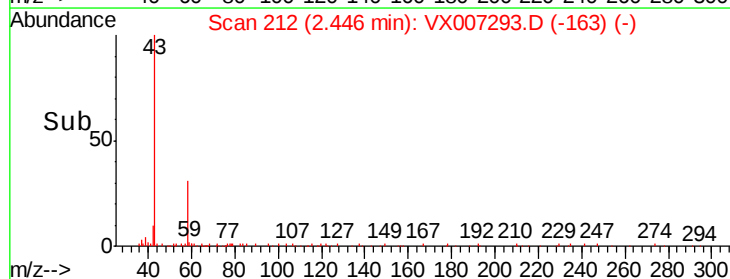
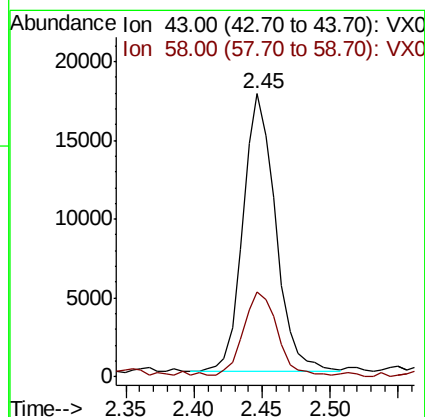
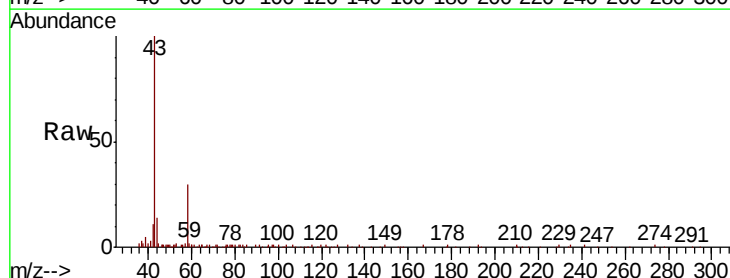
Acq: 29 Jan 2019 17:29

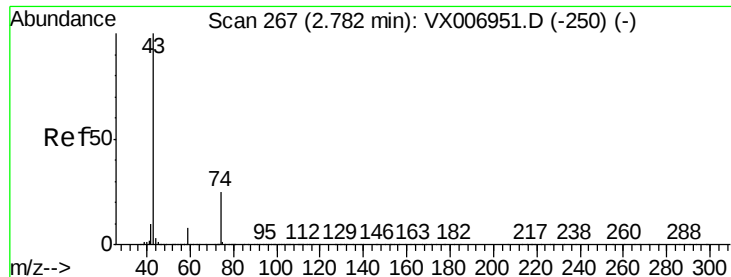
Tgt Ion: 43 Resp: 29668

Ion Ratio Lower Upper

43 100

58 30.3 25.0 37.6





#18

Methyl Acetate

Concen: 3.019 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007293.D

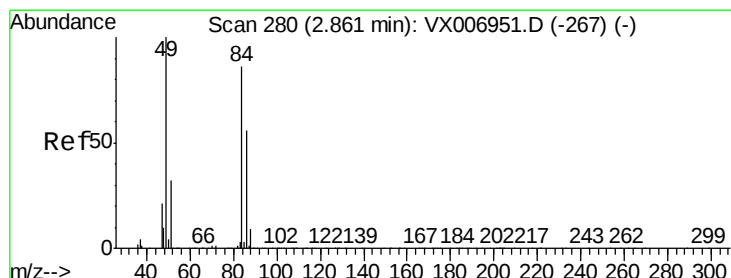
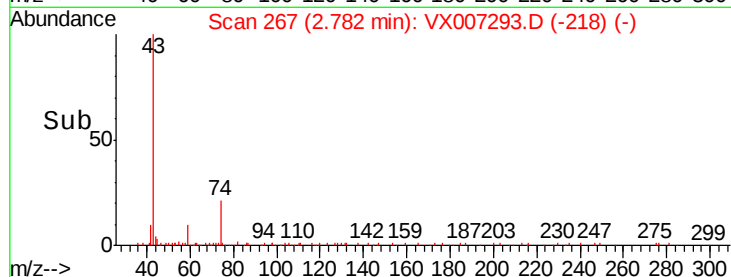
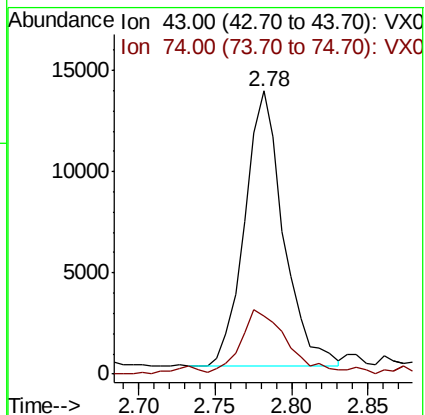
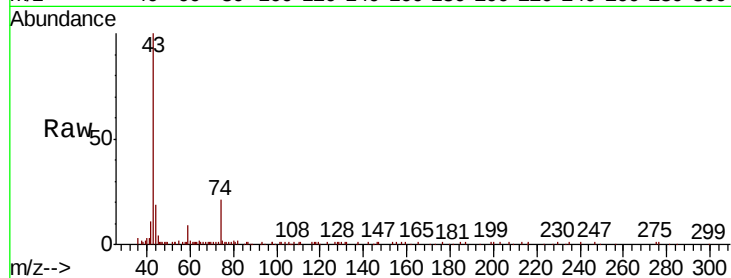
Acq: 29 Jan 2019 17:29

Tot Ion: 43 Resp: 23802

Ion Ratio Lower Upper

43 100

74 25.7 18.6 28.0



#20

Methylene Chloride

Concen: 1.896 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX007293.D

Acq: 29 Jan 2019 17:29

Tgt Ion: 84 Resp: 12635

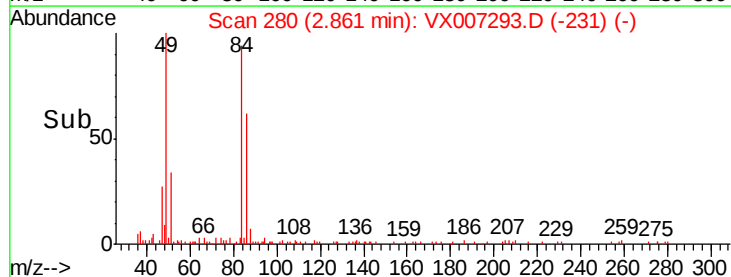
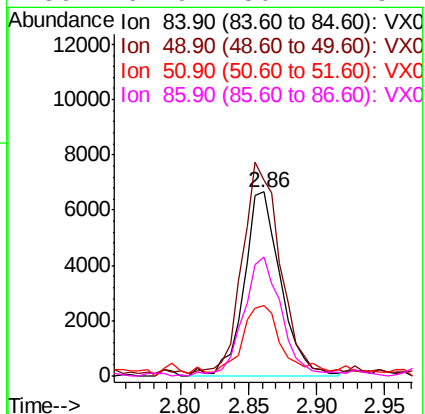
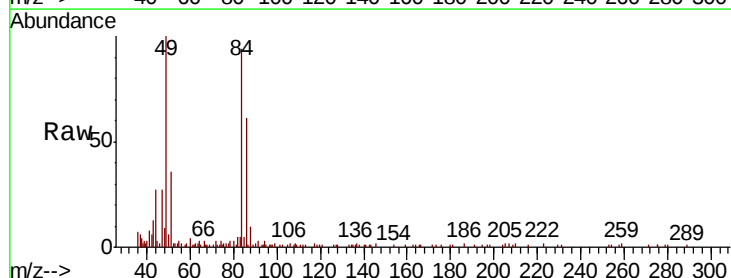
Ion Ratio Lower Upper

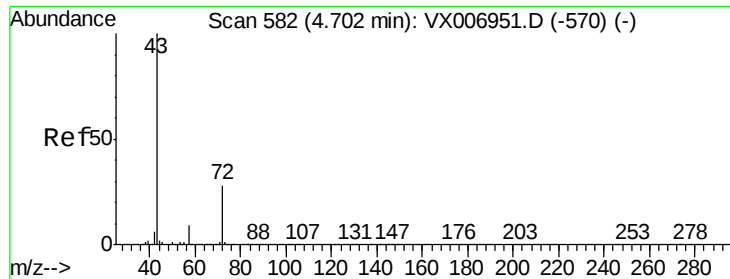
84 100

49 105.5 91.8 137.6

51 36.9 28.5 42.7

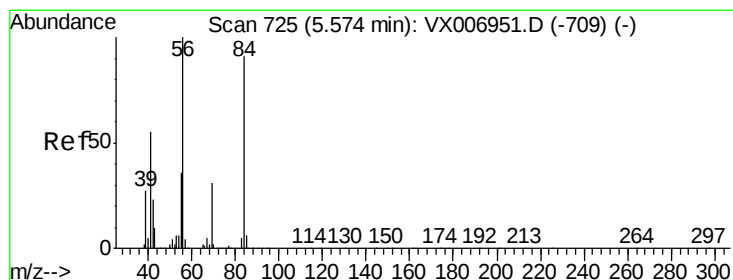
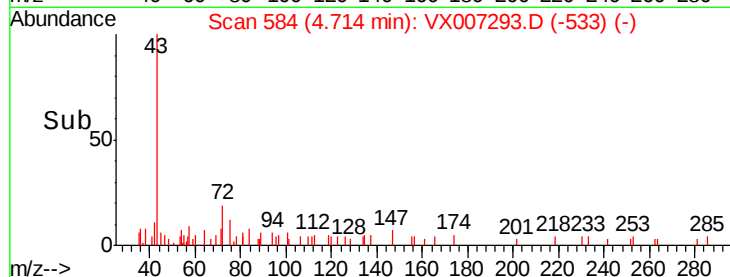
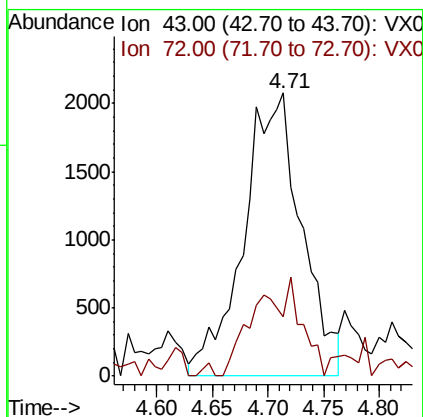
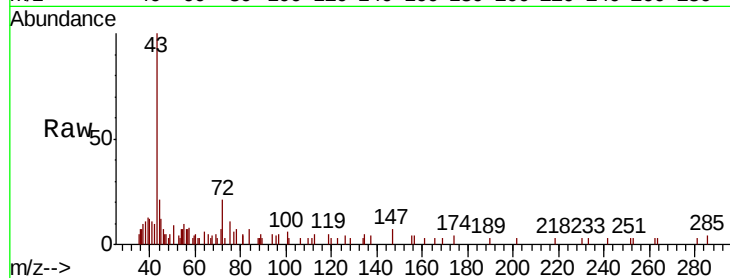
86 64.9 50.2 75.2





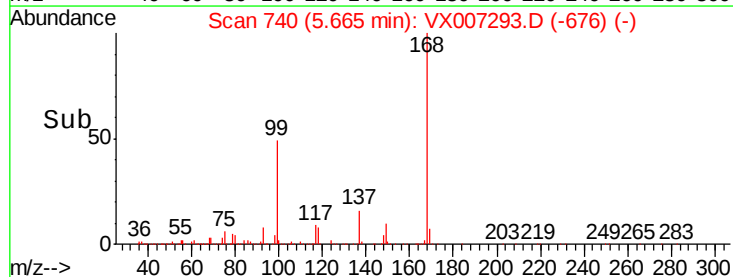
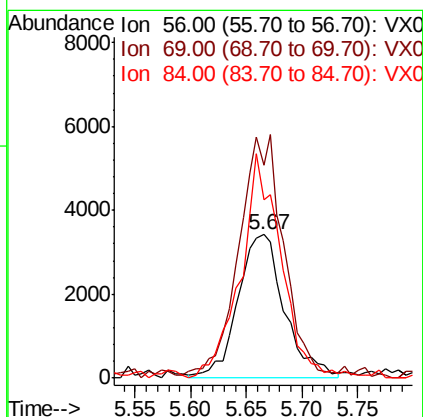
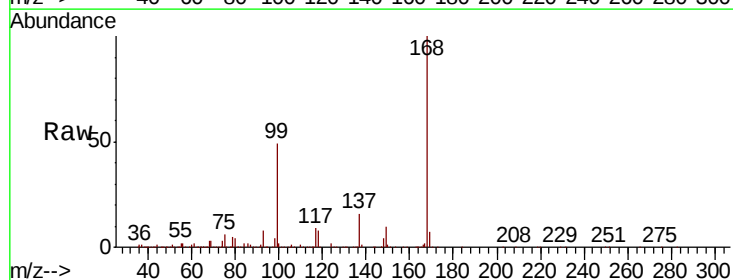
#25
2-Butanone
Concen: 1.933 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

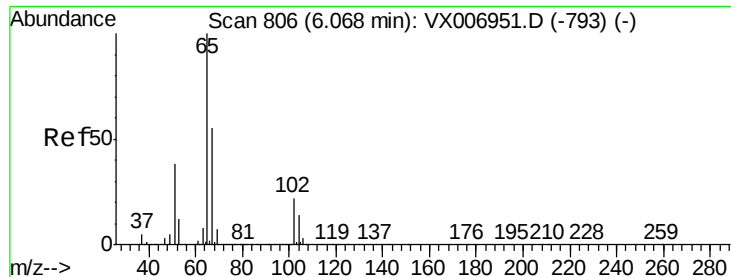
Tot Ion: 43 Resp: 7529
Ion Ratio Lower Upper
43 100
72 22.1 22.4 33.6#



#31
Cyclohexane
Concen: 1.284 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

Tgt Ion: 56 Resp: 9973
Ion Ratio Lower Upper
56 100
69 147.5 24.4 36.6#
84 127.2 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 51.112 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007293.D

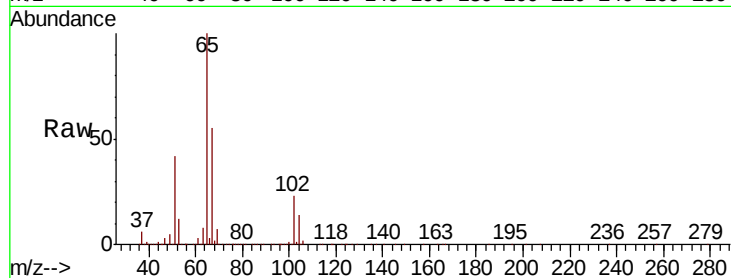
Acq: 29 Jan 2019 17:29

Tot Ion: 65 Resp: 281478

Ion Ratio Lower Upper

65 100

67 54.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

120000

100000

80000

60000

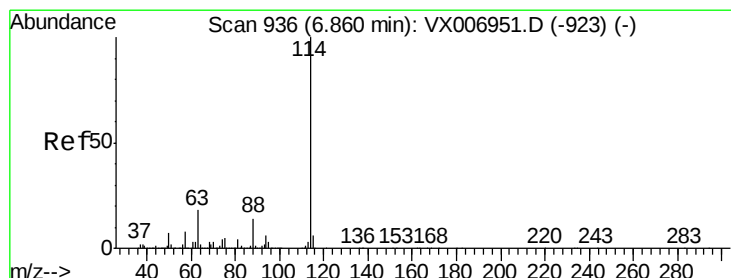
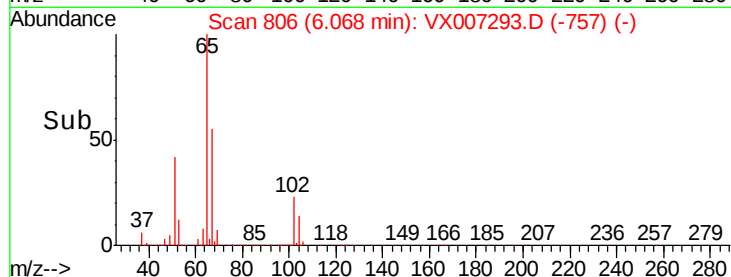
40000

20000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007293.D

Acq: 29 Jan 2019 17:29

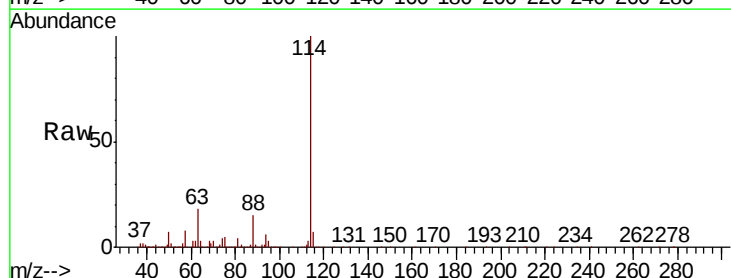
Tgt Ion: 114 Resp: 815528

Ion Ratio Lower Upper

114 100

63 17.5 0.0 34.8

88 14.6 0.0 28.8



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

6.86

400000

300000

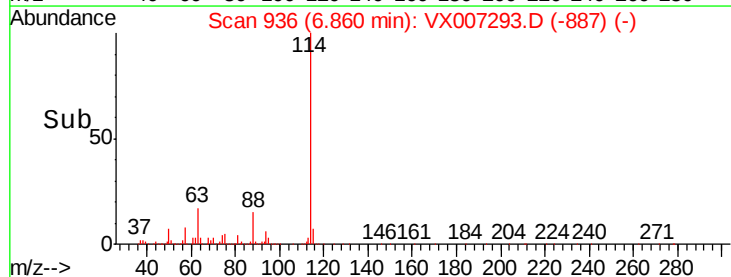
200000

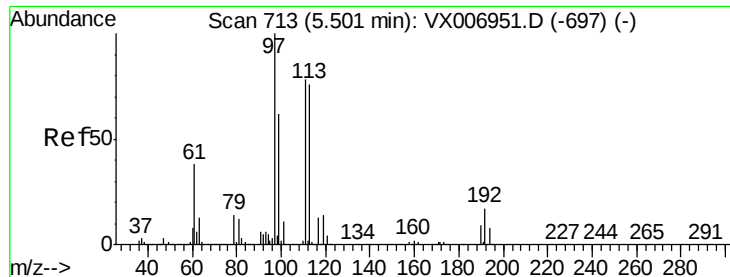
100000

0

Time-->

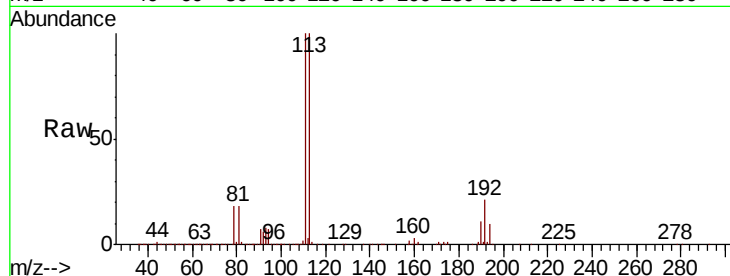
6.80 6.90 7.00



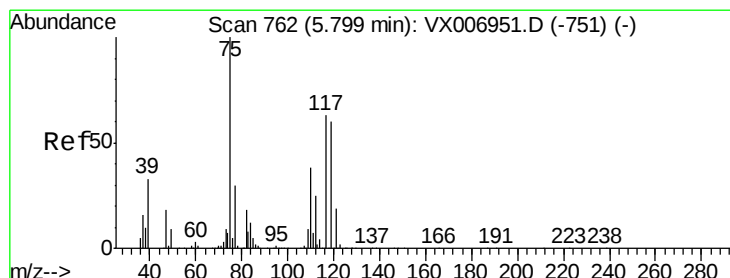
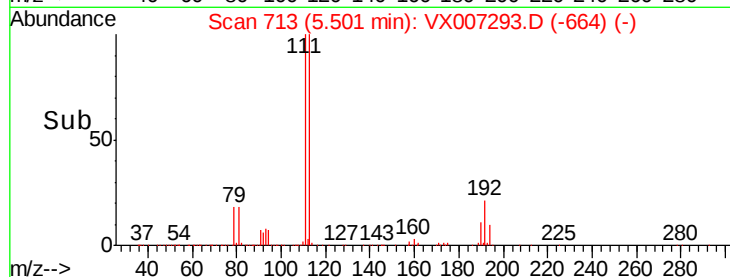
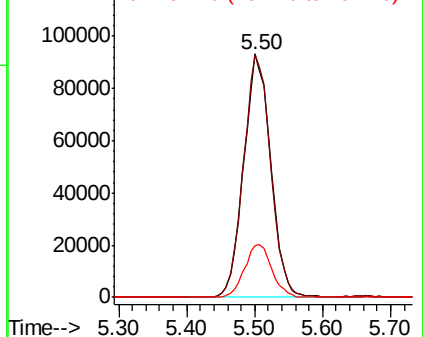


#35
Dibromofluoromethane
Concen: 49.442 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.2	81.6	122.4
192	22.0	16.7	25.1

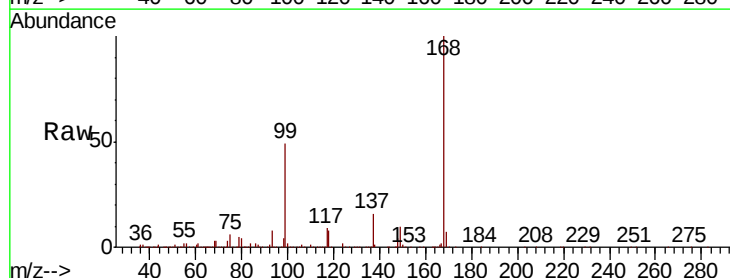


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

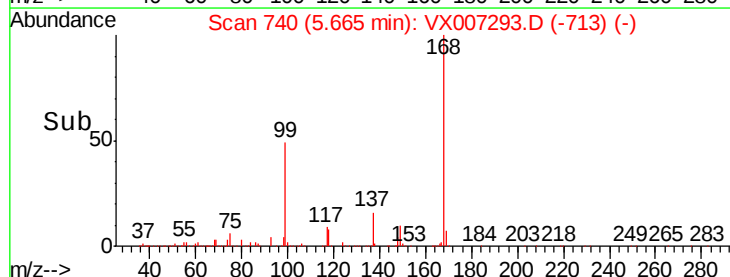
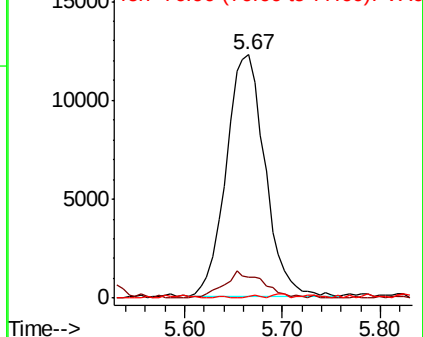


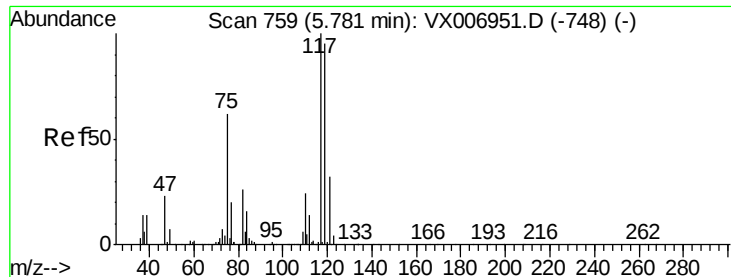
#36
1,1-Dichloropropene
Concen: 4.727 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.13 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.4	20.2	60.5#
77	0.4	24.8	37.2#



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: 6.679 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007293.D

Acq: 29 Jan 2019 17:29

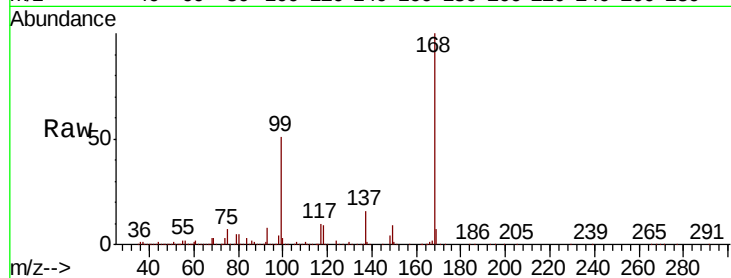
Tot Ion:117 Resp: 47644

Ion Ratio Lower Upper

117 100

119 4.2 79.4 119.2#

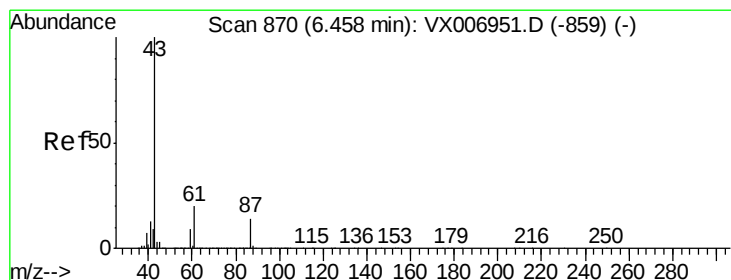
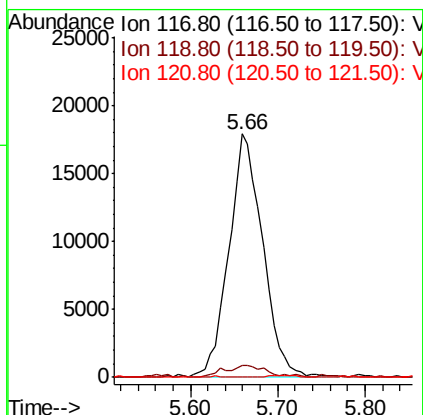
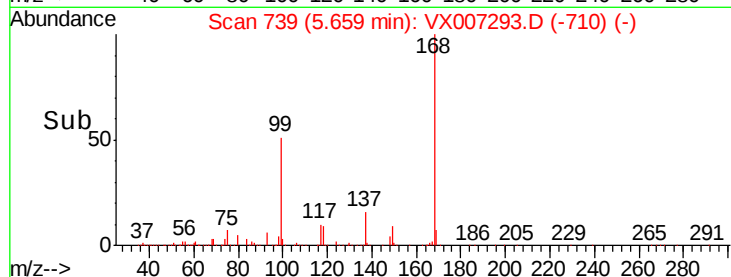
121 0.0 24.0 36.0#



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: 2.374 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007293.D

Acq: 29 Jan 2019 17:29

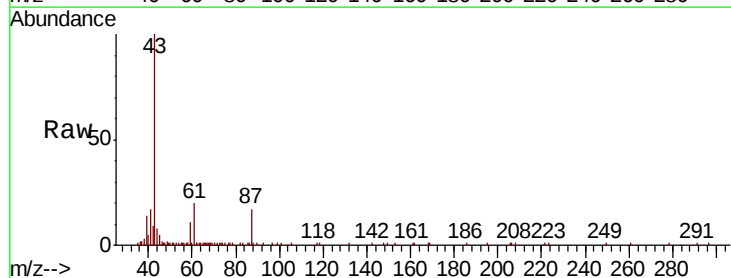
Tgt Ion: 43 Resp: 28466

Ion Ratio Lower Upper

43 100

61 19.4 16.8 25.2

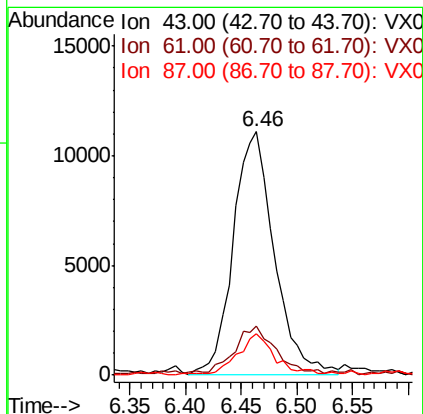
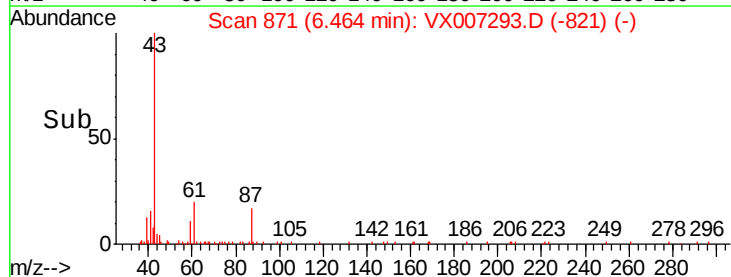
87 15.8 12.4 18.6

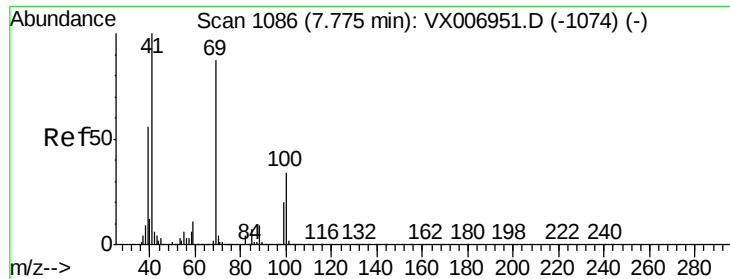


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

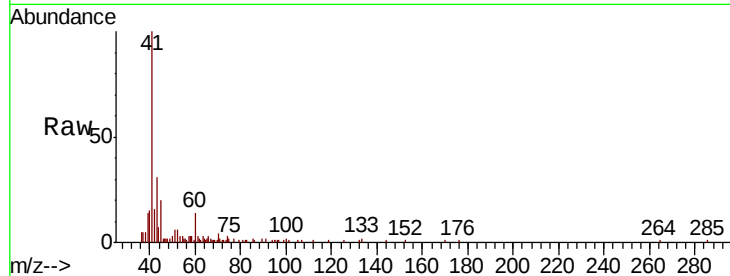
Ion 87.00 (86.70 to 87.70): VX0



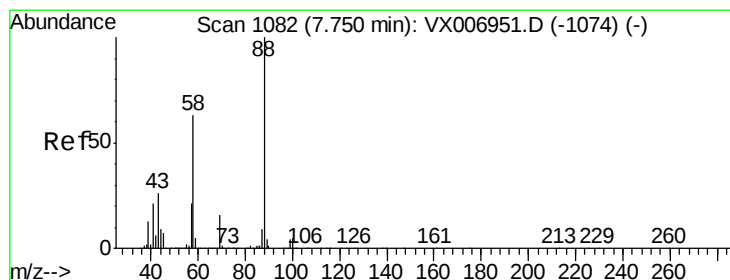
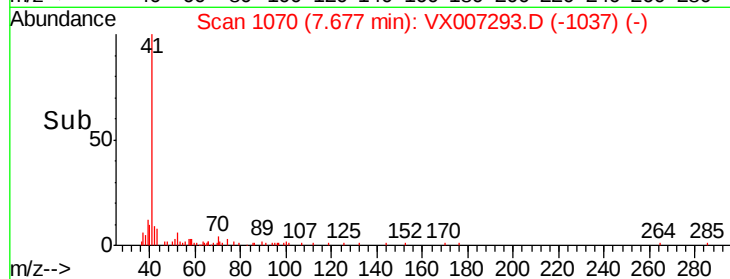
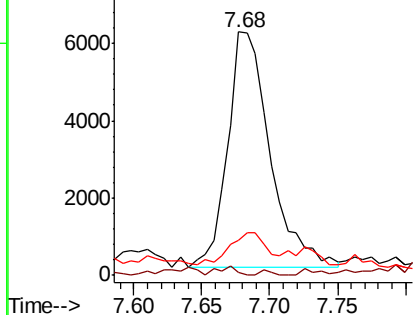


#48
Methvl methacrylate
Concen: 2.153 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.10 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

Tot Ion	Ratio	Lower	Upper
41	100		
69	1.6	72.4	108.6#
39	0.0	45.8	68.8#

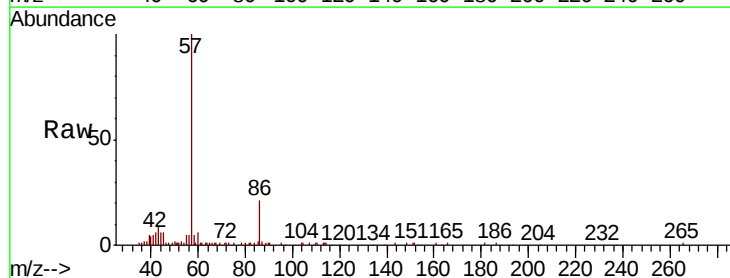


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

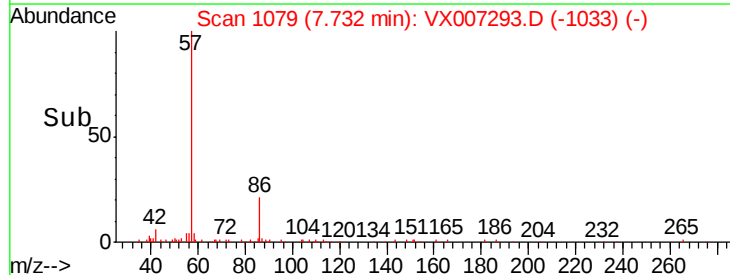
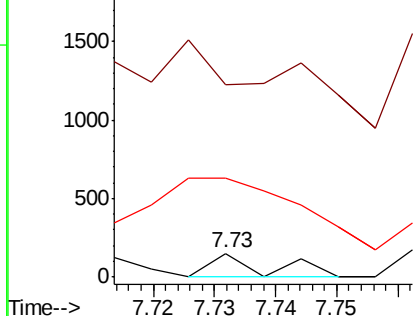


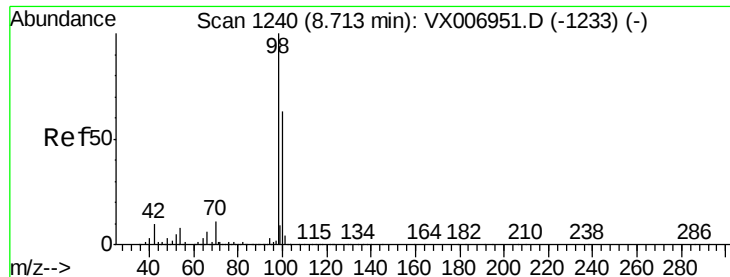
#49
1,4-Dioxane
Concen: Below Cal
RT: 7.73 min Scan# 1079
Delta R.T. -0.02 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	1147.5	51.0	76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.588 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007293.D

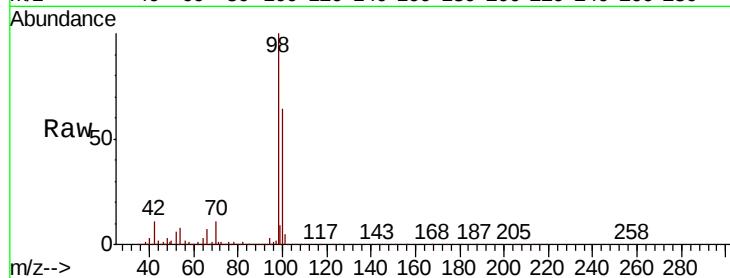
Acq: 29 Jan 2019 17:29

Tot Ion: 98 Resp: 1005291

Ion Ratio Lower Upper

98 100

100 64.5 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

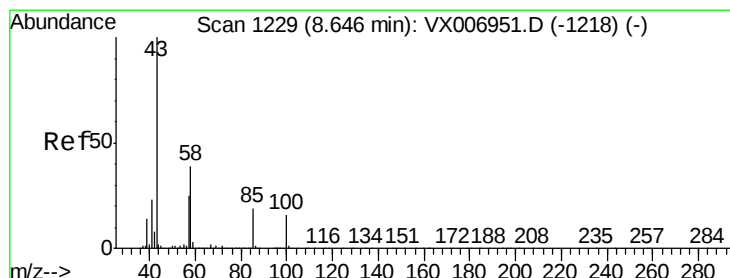
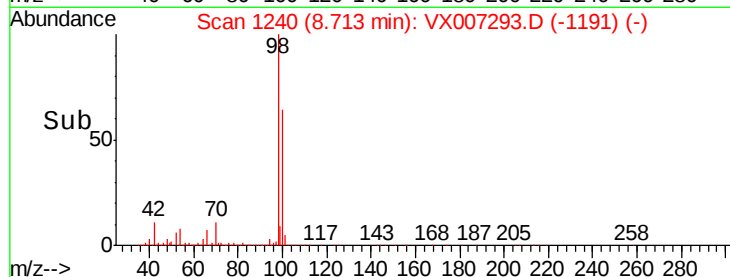
600000

400000

200000

0

Time--> 8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 18.618 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007293.D

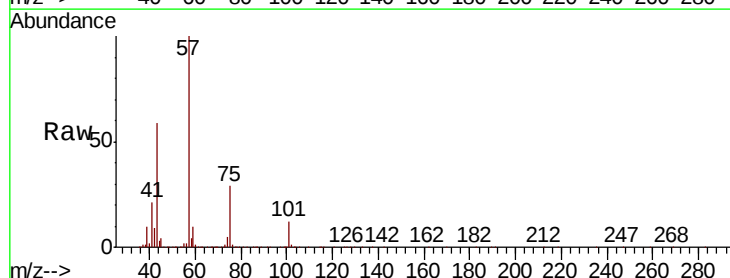
Acq: 29 Jan 2019 17:29

Tgt Ion: 43 Resp: 143468

Ion Ratio Lower Upper

43 100

58 8.7 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

100000

80000

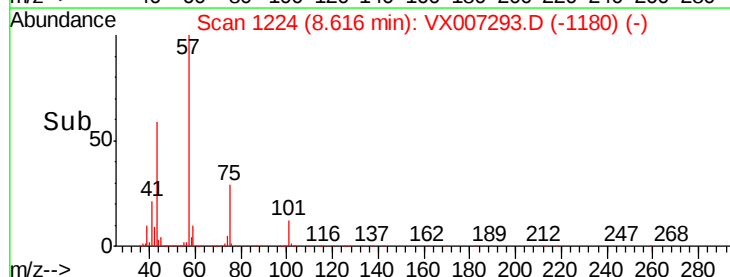
60000

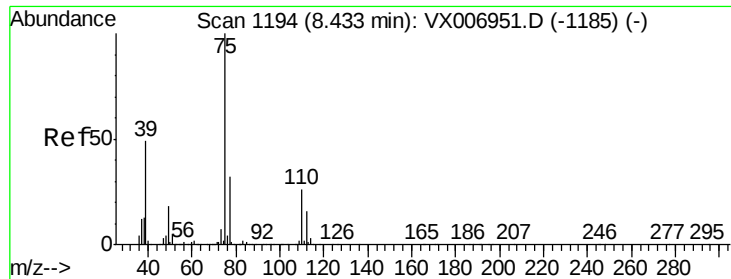
40000

20000

0

Time--> 8.55 8.60 8.65 8.70





#54

cis-1,3-Dichloropropene

Concen: 8.932 ug/l

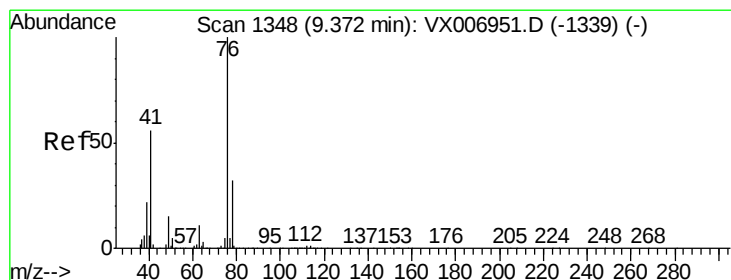
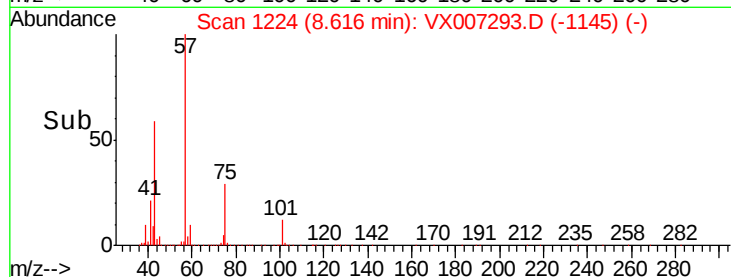
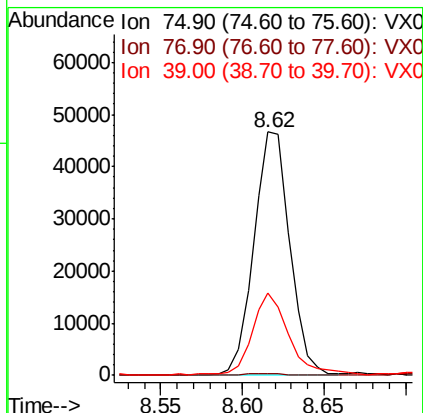
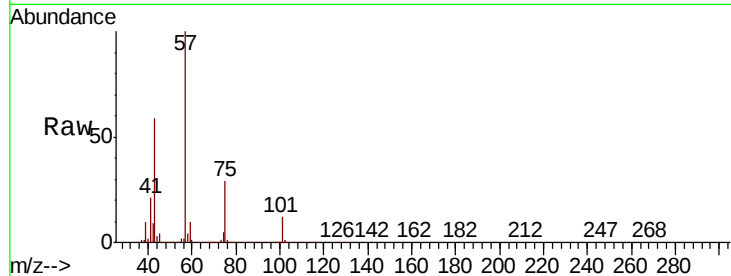
RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007293.D

Acq: 29 Jan 2019 17:29

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.3	26.2	39.2#
39	33.7	36.7	55.1#



#57

1,3-Dichloropropane

Concen: 1.927 ug/l

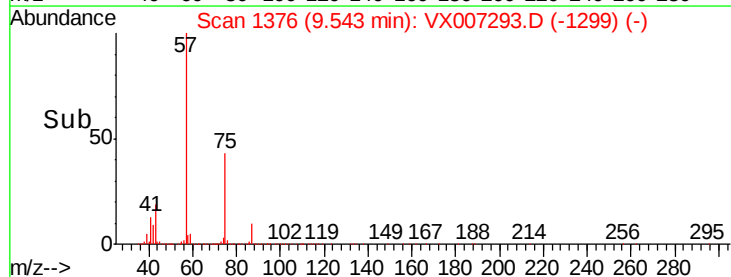
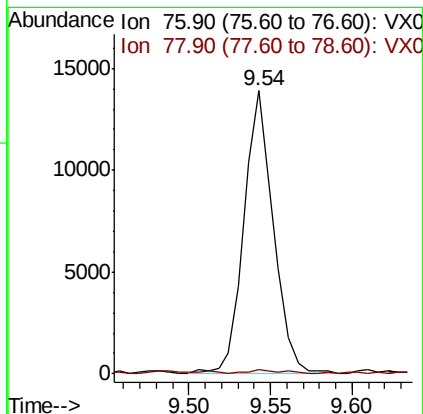
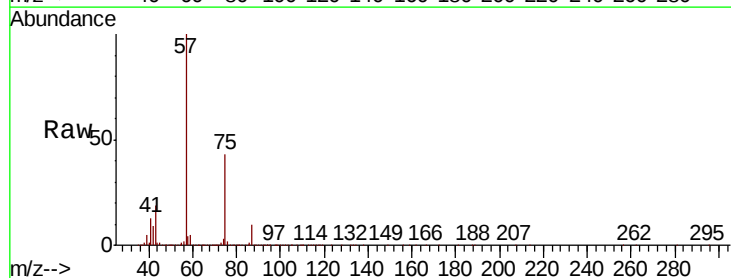
RT: 9.54 min Scan# 1376

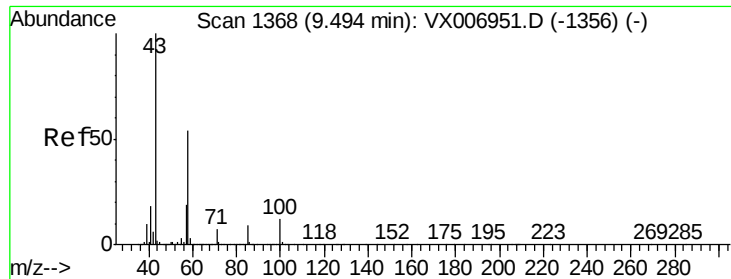
Delta R.T. 0.17 min

Lab File: VX007293.D

Acq: 29 Jan 2019 17:29

Tgt Ion	Ratio	Lower	Upper
76	100		
78	1.9	26.0	39.0#





#59

2-Hexanone

Concen: 37.470 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007293.D

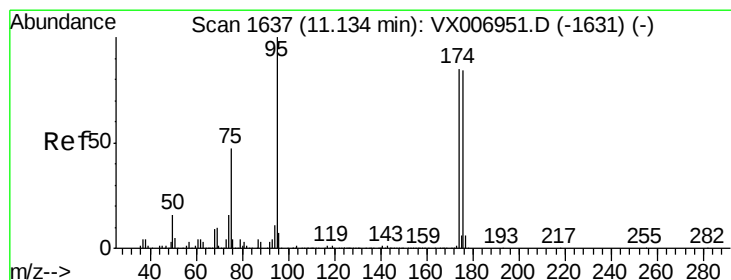
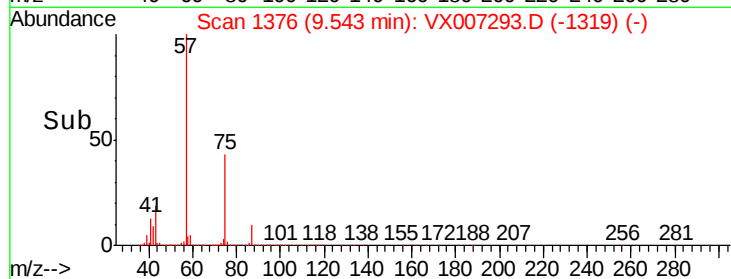
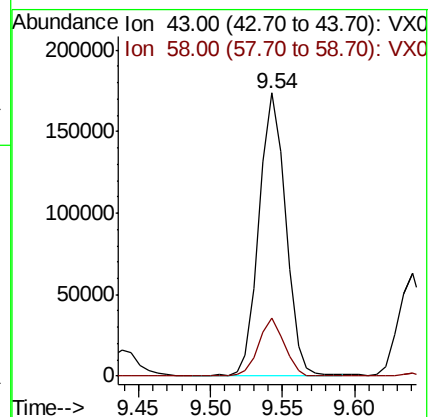
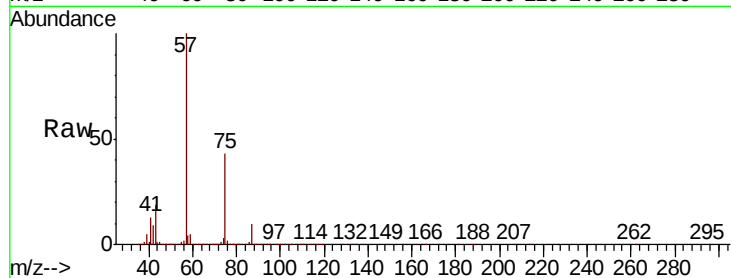
Acq: 29 Jan 2019 17:29

Tot Ion: 43 Resp: 220032

Ion Ratio Lower Upper

43 100

58 19.9 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 53.507 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007293.D

Acq: 29 Jan 2019 17:29

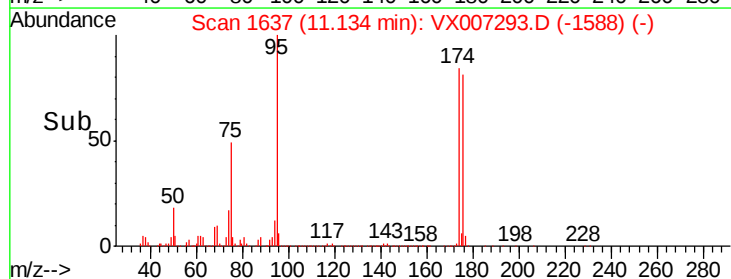
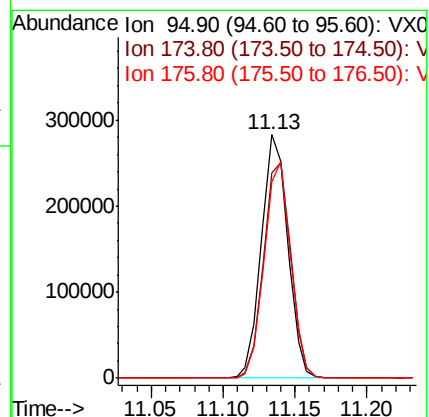
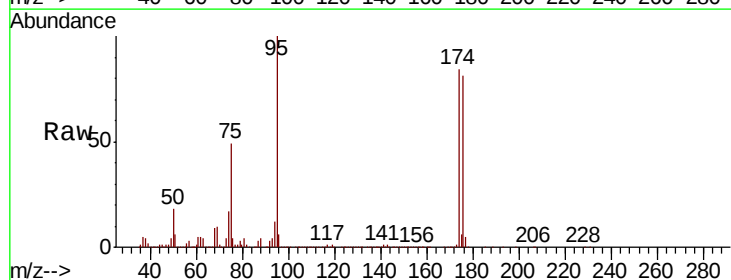
Tgt Ion: 95 Resp: 356592

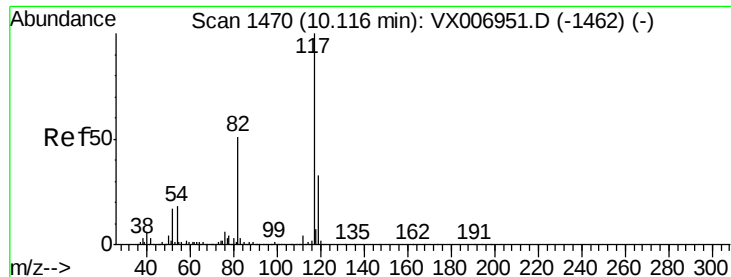
Ion Ratio Lower Upper

95 100

174 91.8 0.0 182.2

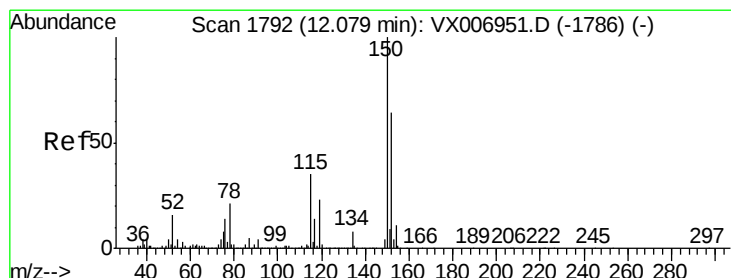
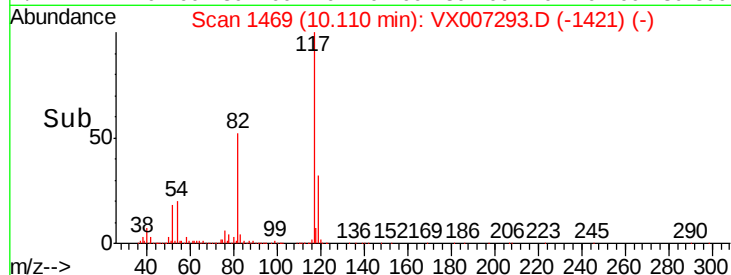
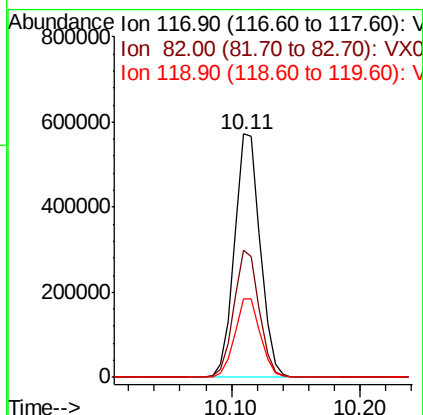
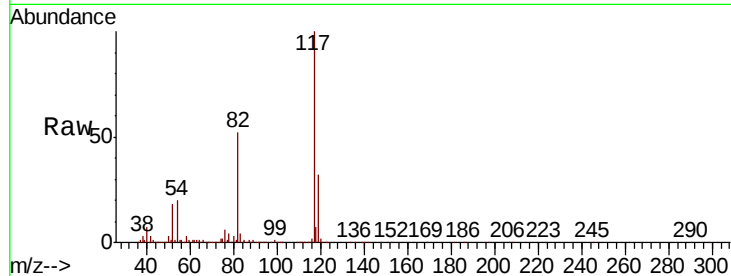
176 89.5 0.0 178.8





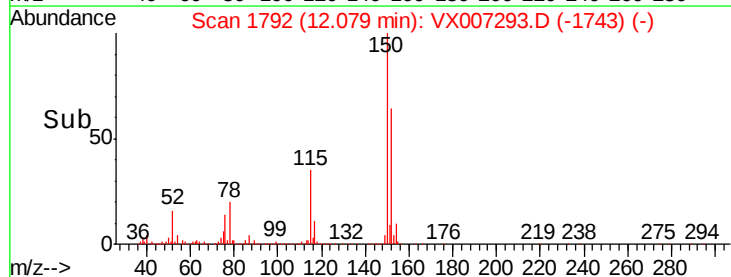
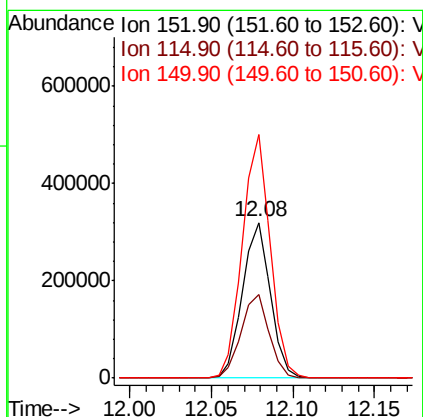
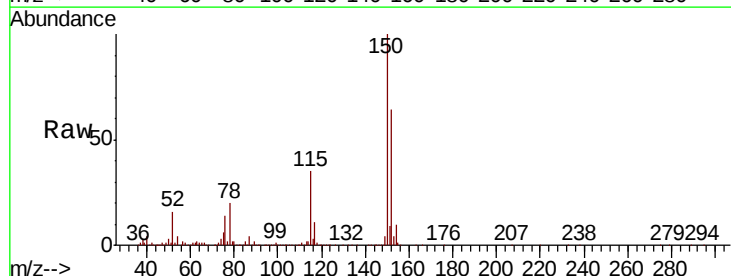
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

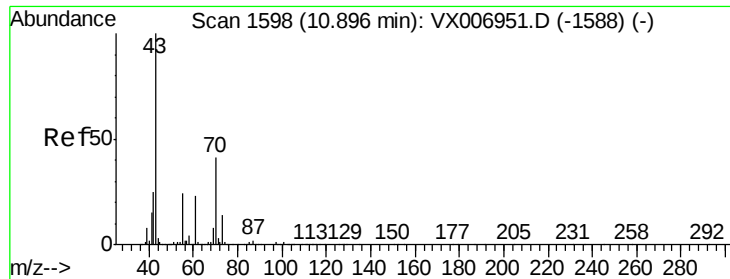
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	41.0	61.6
119	32.2	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.8	39.1	117.2
150	156.8	0.0	344.8





#74

N-amvl acetate

Concen: 1.958 ug/l

RT: 10.69 min Scan# 1565

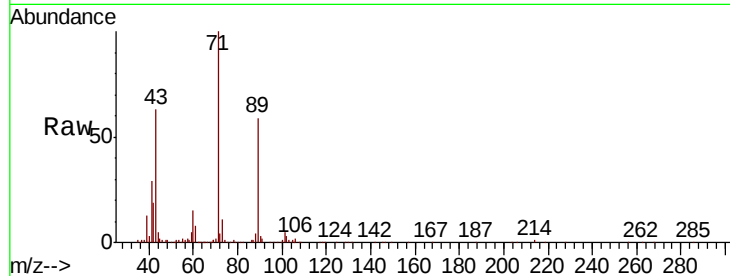
Delta R.T. -0.20 min

Lab File: VX007293.D

Acq: 29 Jan 2019 17:29

Tot Ion: 43 Resp: 21269

Ion	Ratio	Lower	Upper
43	100		
70	3.3	35.8	53.8#
55	6.2	19.4	29.0#
61	14.5	20.1	30.1#

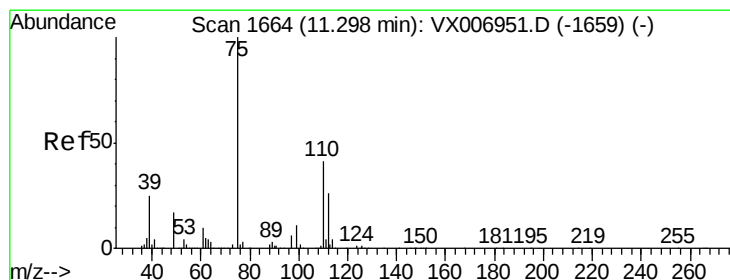
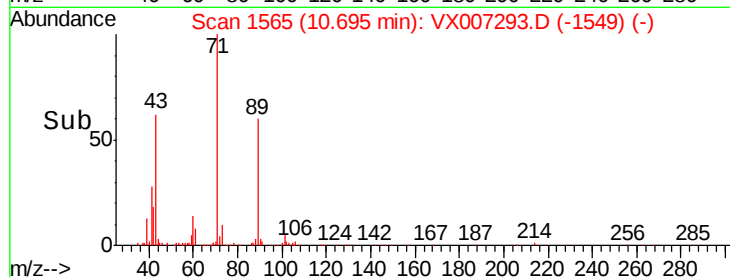
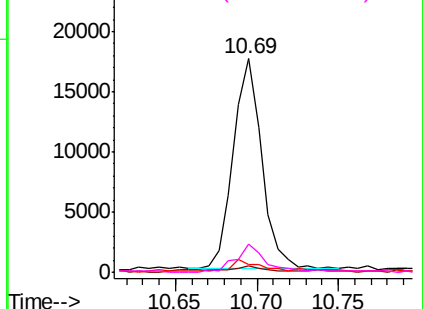


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.106 ug/l

RT: 11.13 min Scan# 1637

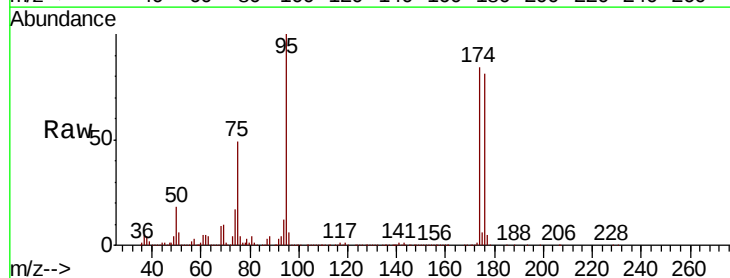
Delta R.T. -0.16 min

Lab File: VX007293.D

Acq: 29 Jan 2019 17:29

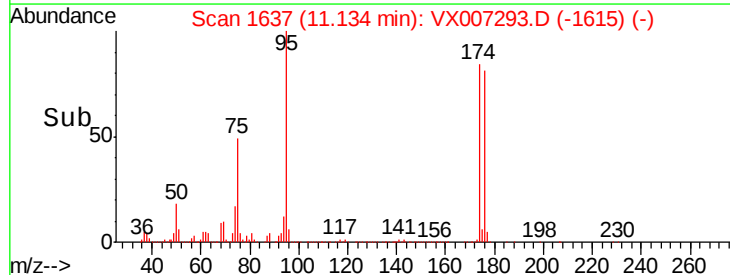
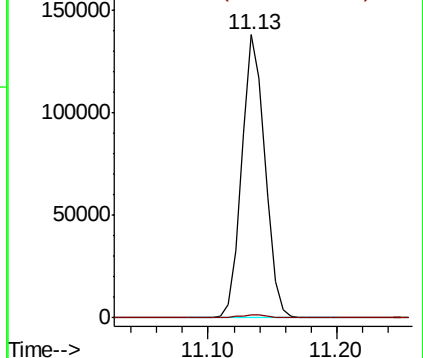
Tgt Ion: 75 Resp: 171440

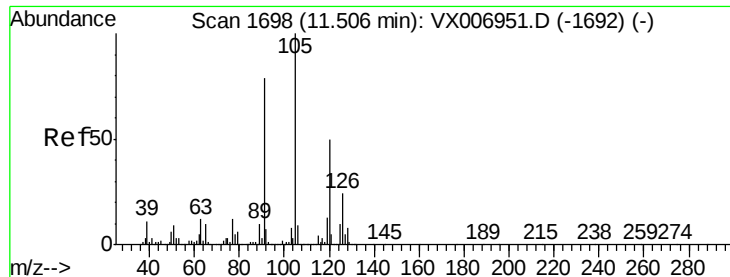
Ion	Ratio	Lower	Upper
75	100		
77	1.6	18.5	55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

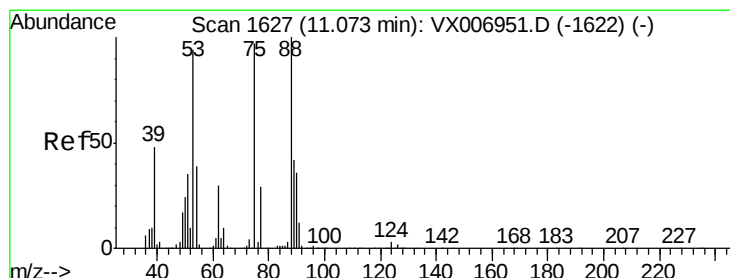
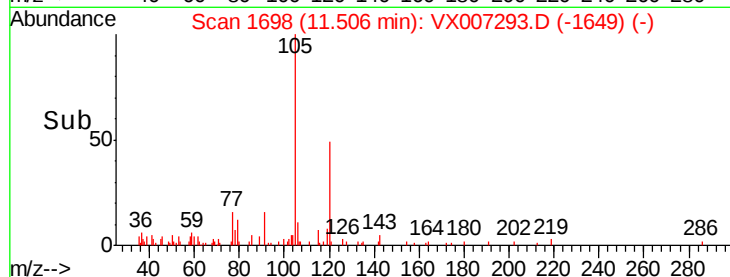
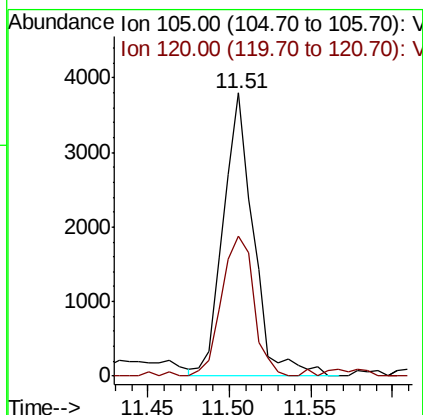
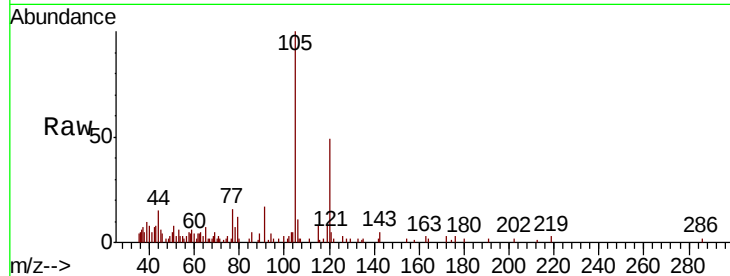




#80

1,3,5-Trimethylbenzene
Concen: 0.217 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

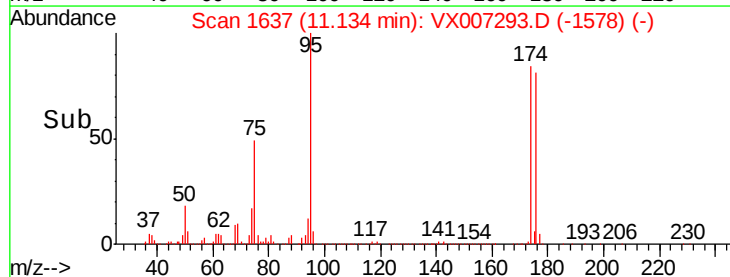
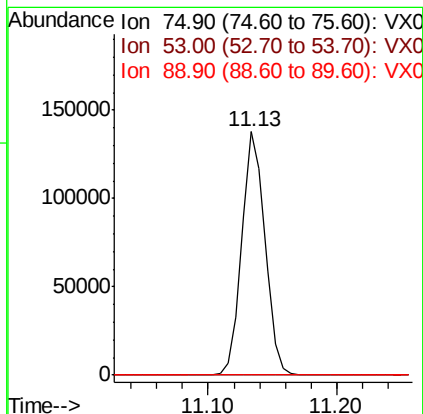
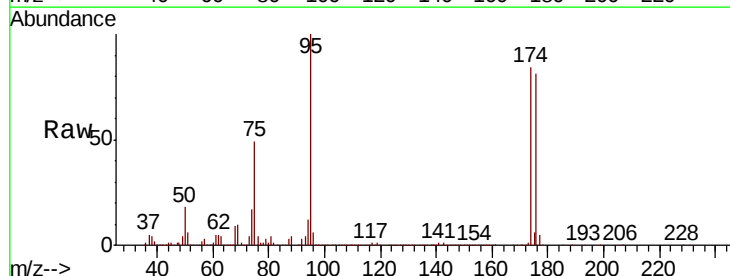
Tot Ion: 105 Resp: 4892
Ion Ratio Lower Upper
105 100
120 52.5 25.1 75.3

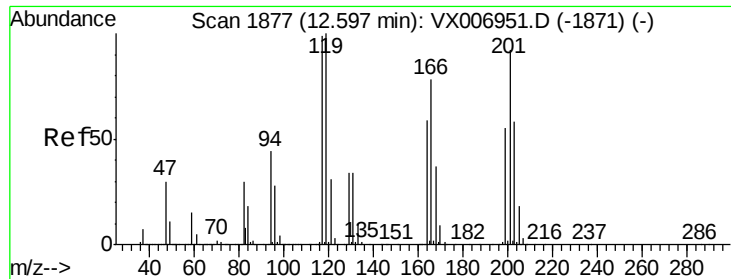


#81

trans-1,4-Dichloro-2-butene
Concen: 65.448 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX007293.D
Acq: 29 Jan 2019 17:29

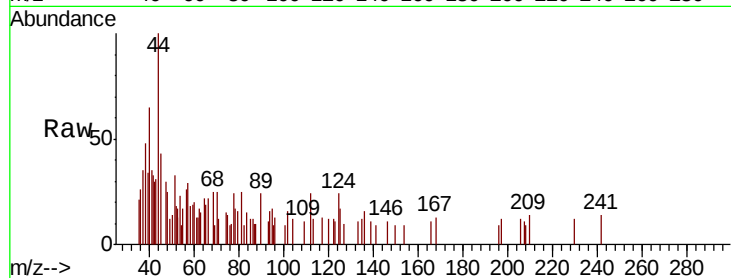
Tgt Ion: 75 Resp: 171440
Ion Ratio Lower Upper
75 100
53 0.2 79.7 119.5#
89 0.0 38.0 57.0#





#90
 Hexachloroethane
 Concen: 2.921 ug/l
 RT: 12.60 min Scan# 1877
 Delta R.T. 0.00 min
 Lab File: VX007293.D
 Acq: 29 Jan 2019 17:29

Tot Ion	Ratio	Lower	Upper
117	100		
201	0.0	42.9	128.7#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V

