

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX013878.D
 Acq On : 10 Dec 2019 02:41
 Operator : JC/SP
 Sample : K6176-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 42-SPRUCE

Quant Time: Dec 12 08:19:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	613171	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	949263	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	864903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	385749	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	340713	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
35) Dibromofluoromethane	5.49	113	284096	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
50) Toluene-d8	8.71	98	1137266	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
62) 4-Bromofluorobenzene	11.14	95	382745	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	

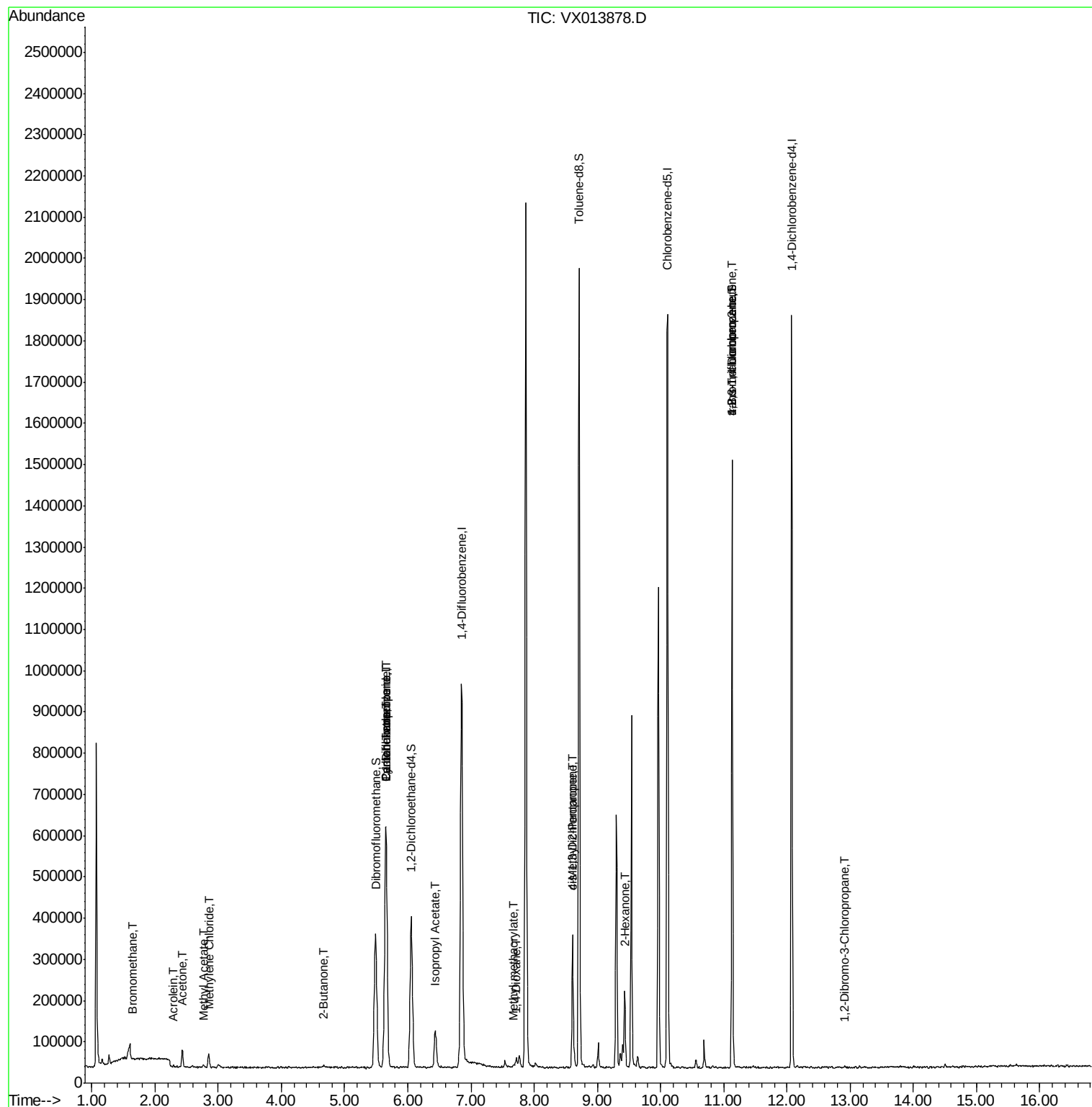
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	2164	0.374	ug/l	88
13) Acrolein	2.28	56	711	6.594	ug/l #	36
16) Acetone	2.43	43	46821	13.324	ug/l	96
18) Methyl Acetate	2.76	43	6668	0.681	ug/l #	76
20) Methylene Chloride	2.85	84	16360	2.423	ug/l	90
25) 2-Butanone	4.67	43	5107	0.978	ug/l #	67
31) Cyclohexane	5.65	56	11408	1.085	ug/l #	10
36) 1,1-Dichloropropene	5.65	75	41374	4.801	ug/l #	50
38) Carbon Tetrachloride	5.65	117	54208	6.822	ug/l #	16
43) Isopropyl Acetate	6.43	43	123566	7.764	ug/l	100
48) Methyl methacrylate	7.68	41	6497	0.840	ug/l #	16
49) 1,4-Dioxane	7.72	88	285	1.647	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	120137	12.001	ug/l #	47
54) cis-1,3-Dichloropropene	8.61	75	53341	5.088	ug/l #	61
59) 2-Hexanone	9.43	43	140751	18.027	ug/l #	23
76) 1,2,3-Trichloropropane	11.14	75	184095	21.218	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	184095	58.050	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.90	75	511	0.250	ug/l	75

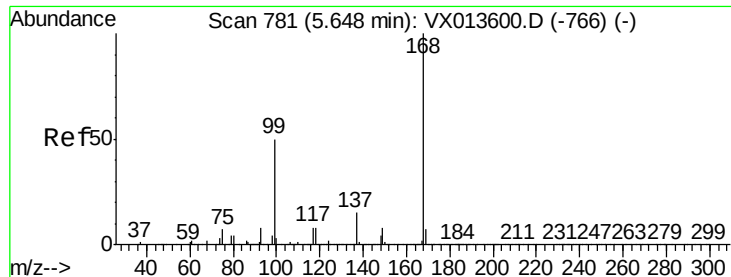
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

Instrument :

MSVOA_X

ClientSampleId :

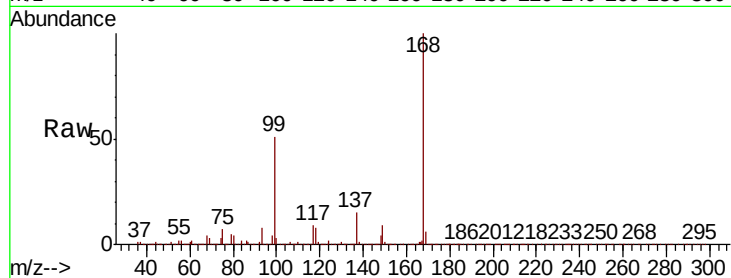
42-SPRUCE

Tot Ion:168 Resp: 613171

Ion Ratio Lower Upper

168 100

99 51.0 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

150000

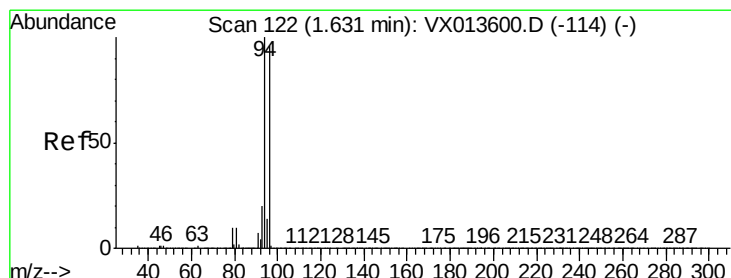
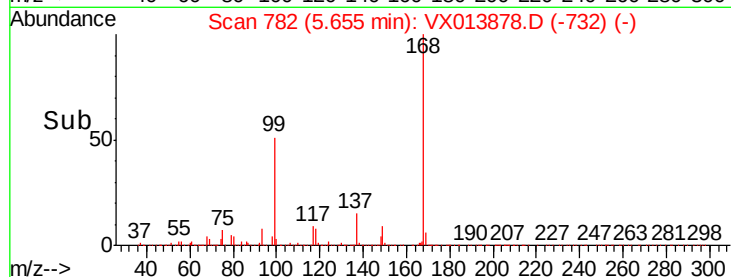
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.374 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013878.D

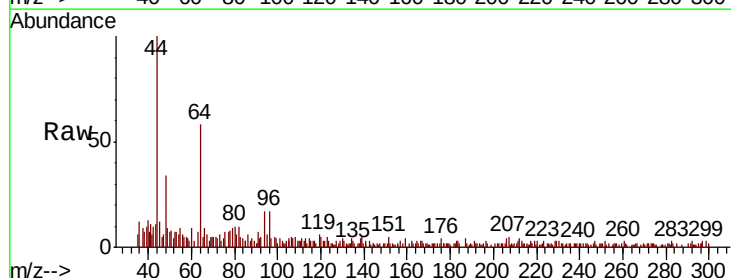
Acq: 10 Dec 2019 02:41

Tgt Ion: 94 Resp: 2164

Ion Ratio Lower Upper

94 100

96 108.3 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

600

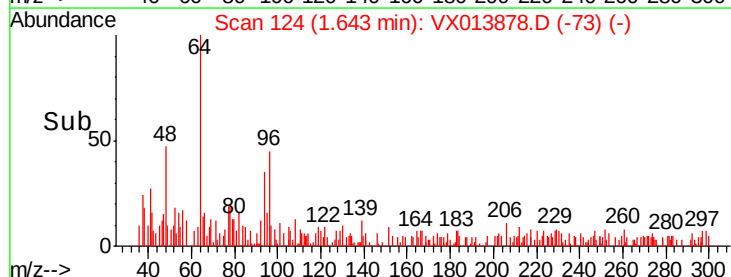
400

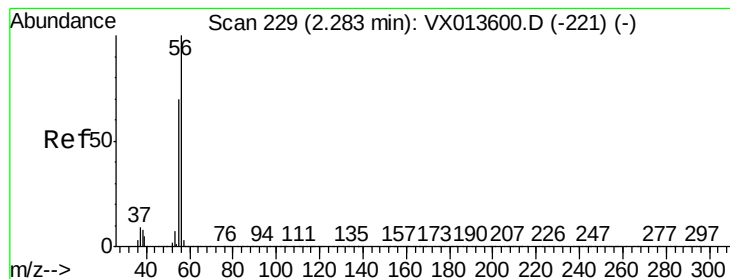
200

0

Time-->

1.60 1.65 1.70 1.75





#13

Acrolein

Concen: 6.594 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

Instrument :

MSVOA_X

ClientSampleId :

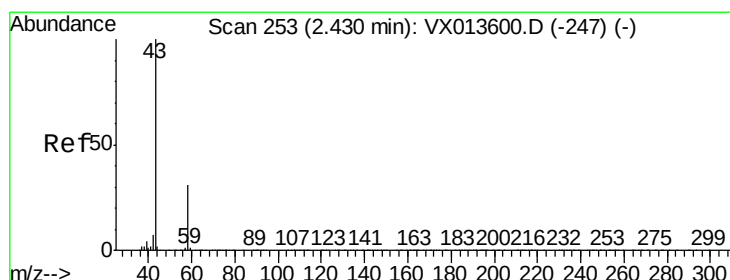
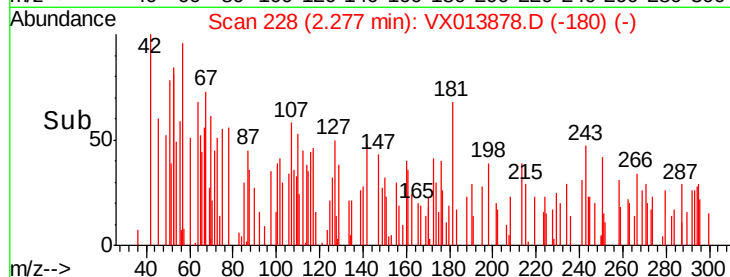
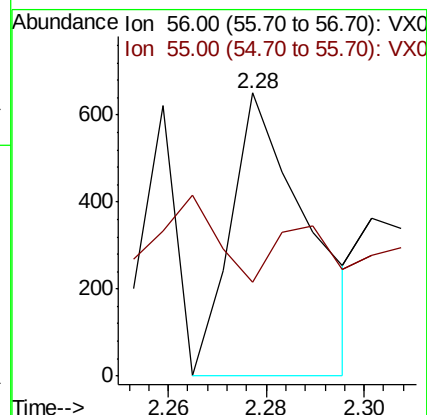
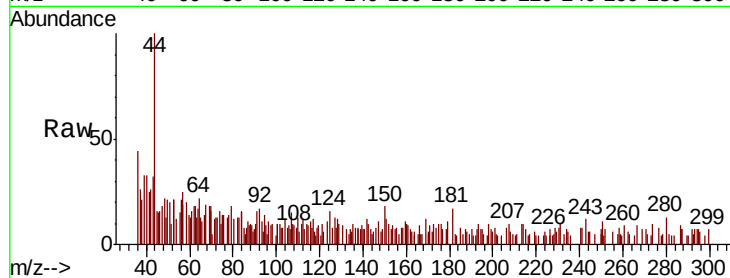
42-SPRUCE

Tot Ion: 56 Resp: 711

Ion Ratio Lower Upper

56 100

55 17.3 56.2 84.4#



#16

Acetone

Concen: 13.324 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013878.D

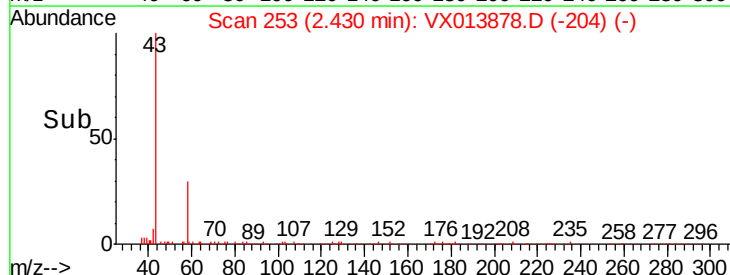
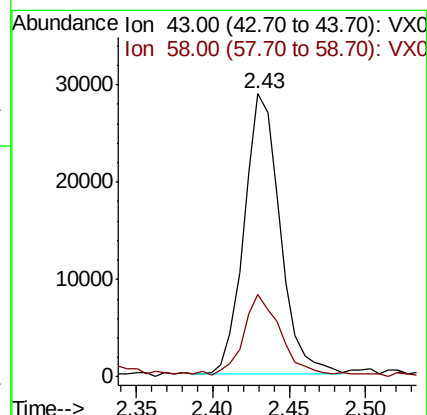
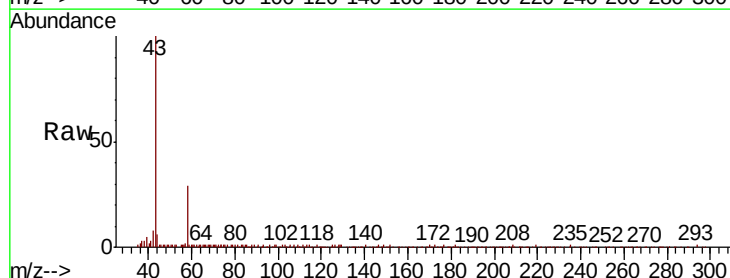
Acq: 10 Dec 2019 02:41

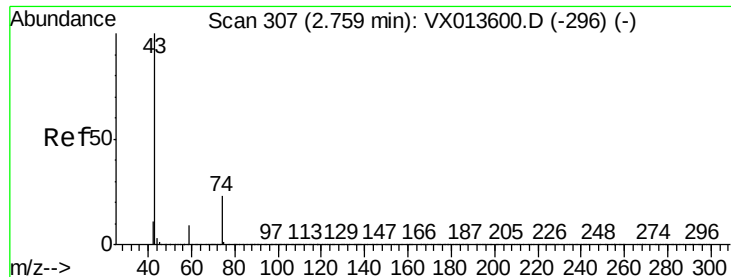
Tgt Ion: 43 Resp: 46821

Ion Ratio Lower Upper

43 100

58 28.2 24.6 36.8

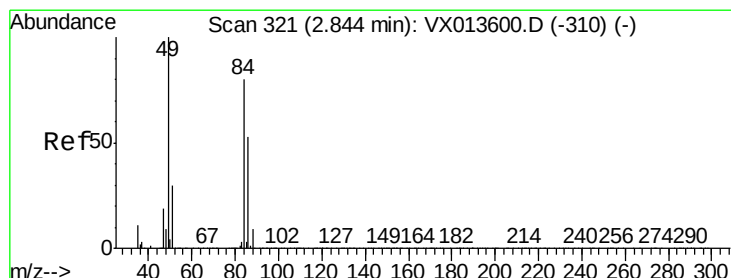
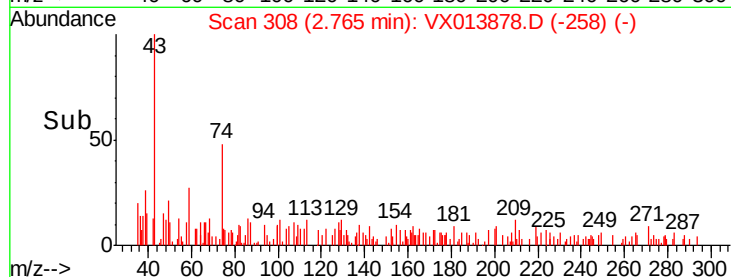
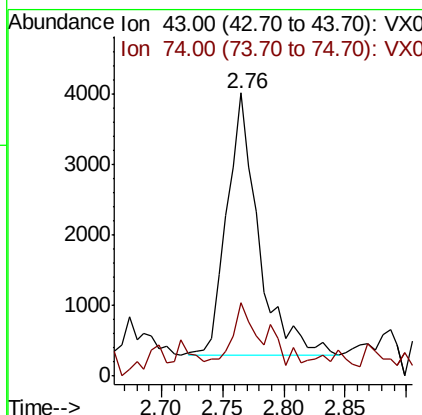
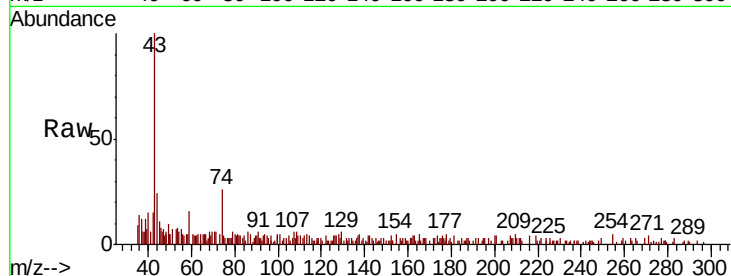




#18
Methyl Acetate
Concen: 0.681 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.01 min
Lab File: VX013878.D
Acq: 10 Dec 2019 02:41

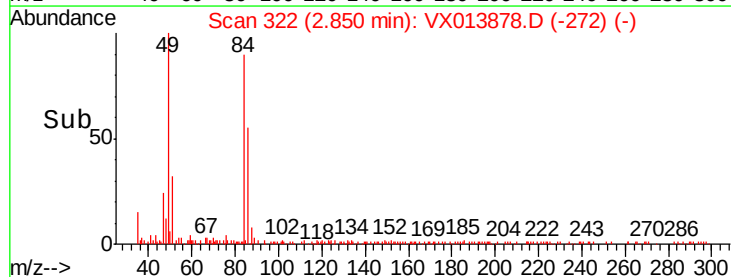
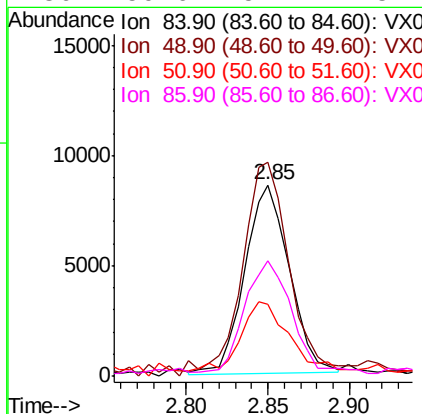
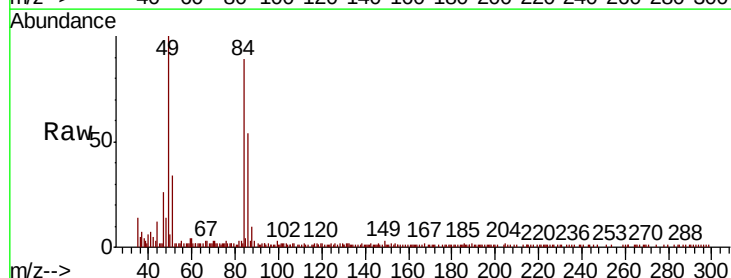
Instrument :
MSVOA_X
ClientSampleId :
42-SPRUCE

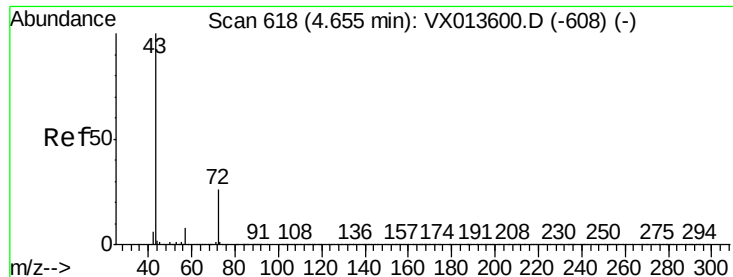
Tot Ion: 43 Resp: 6668
Ion Ratio Lower Upper
43 100
74 12.4 19.5 29.3#



#20
Methylene Chloride
Concen: 2.423 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013878.D
Acq: 10 Dec 2019 02:41

Tgt Ion: 84 Resp: 16360
Ion Ratio Lower Upper
84 100
49 108.7 99.7 149.5
51 35.8 29.9 44.9
86 59.6 52.2 78.4





#25

2-Butanone

Concen: 0.978 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

Instrument :

MSVOA_X

ClientSampleId :

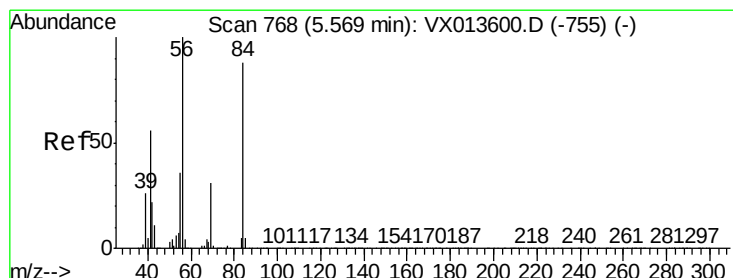
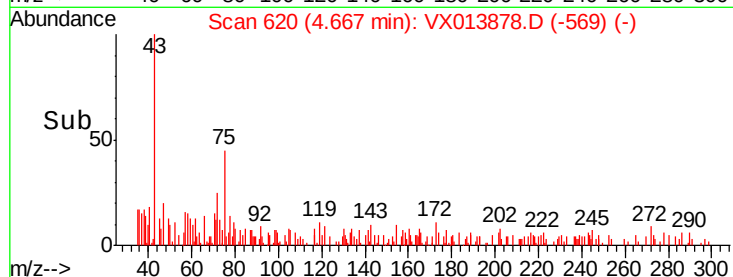
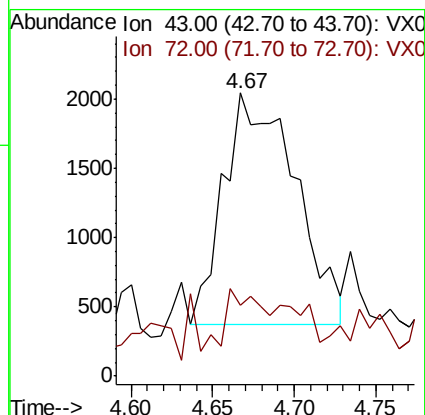
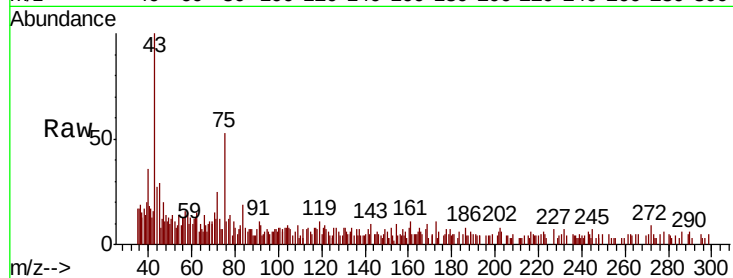
42-SPRUCE

Tot Ion: 43 Resp: 5107

Ion Ratio Lower Upper

43 100

72 9.0 20.6 31.0#



#31

Cyclohexane

Concen: 1.085 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

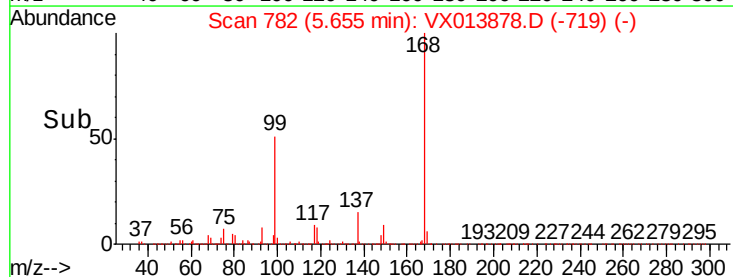
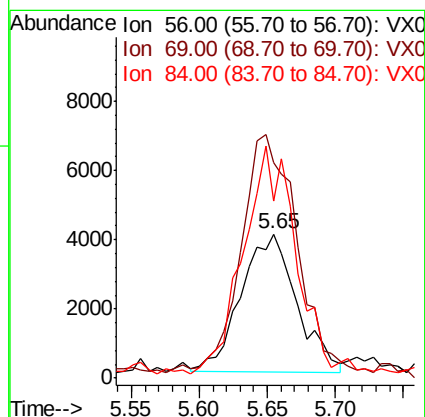
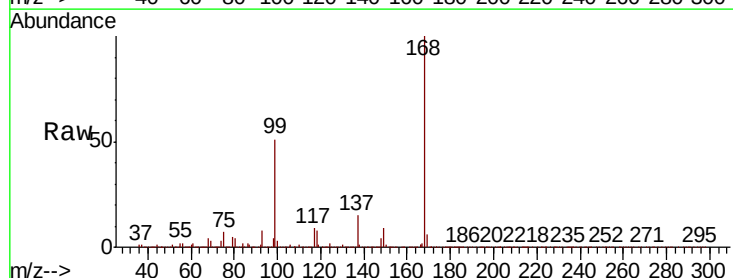
Tgt Ion: 56 Resp: 11408

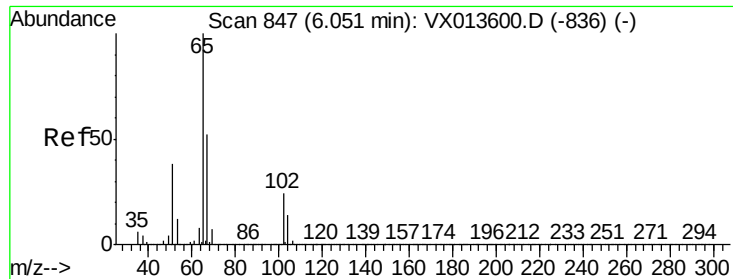
Ion Ratio Lower Upper

56 100

69 152.7 24.6 36.8#

84 128.2 70.0 105.0#

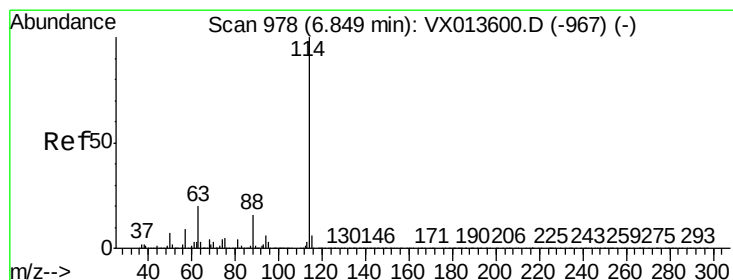
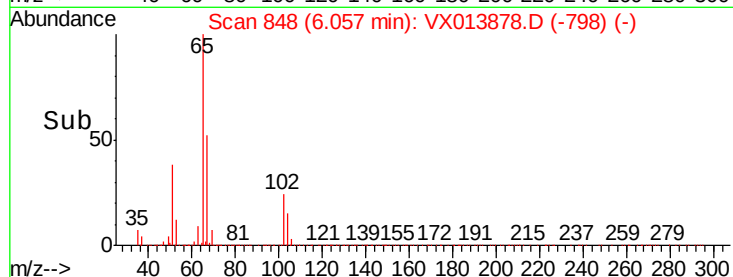
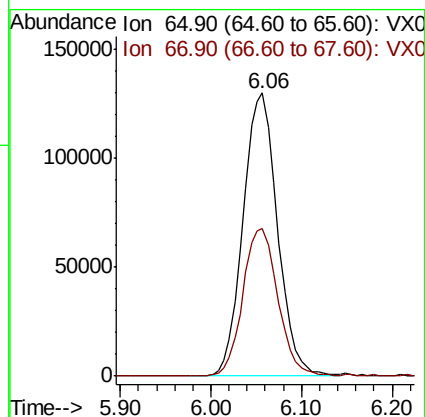
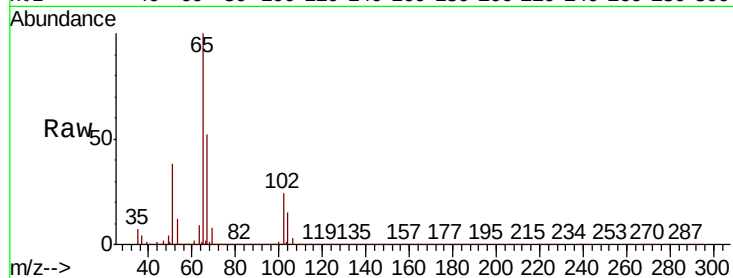




#33
 1,2-Dichloroethane-d4
 Concen: 47.870 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX013878.D
 Acq: 10 Dec 2019 02:41

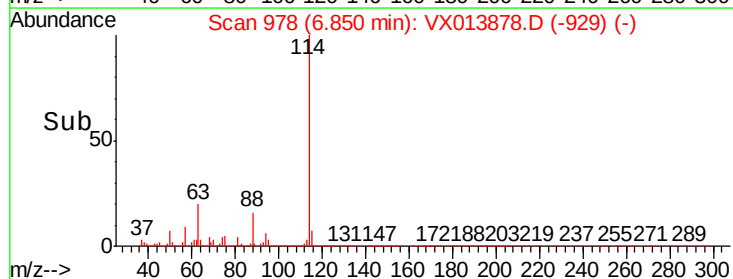
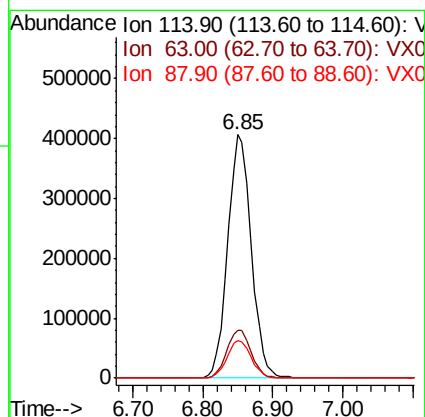
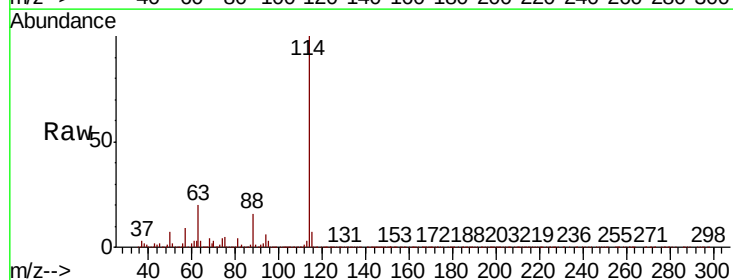
Instrument :
 MSVOA_X
 ClientSampleId :
 42-SPRUCE

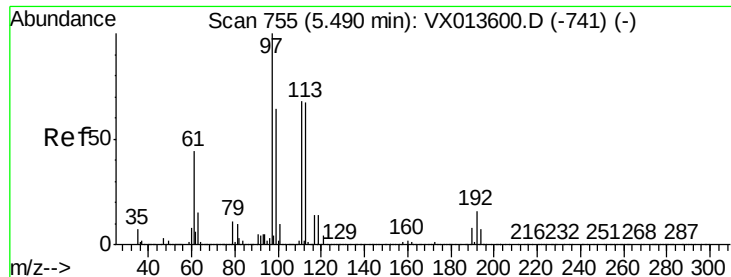
Tot Ion: 65 Resp: 340713
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013878.D
 Acq: 10 Dec 2019 02:41

Tgt Ion: 114 Resp: 949263
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 39.6
 88 15.7 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.411 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

Instrument :

MSVOA_X

ClientSampleId :

42-SPRUCE

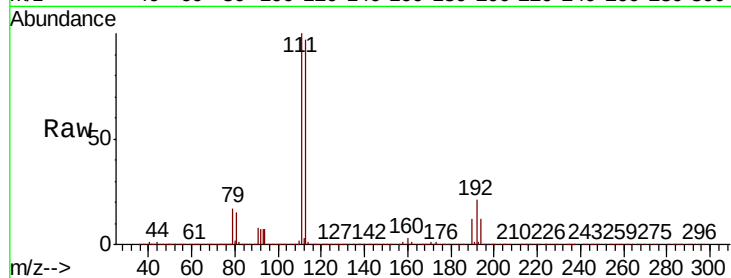
Tot Ion:113 Resp: 284096

Ion Ratio Lower Upper

113 100

111 102.8 83.6 125.4

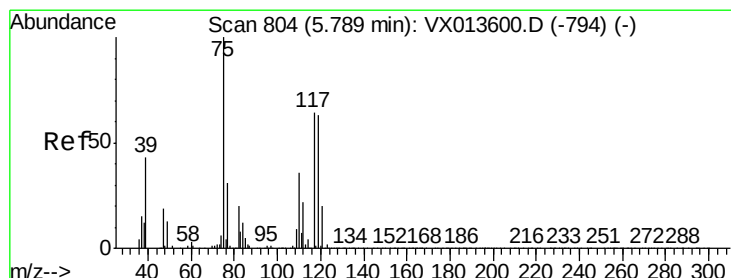
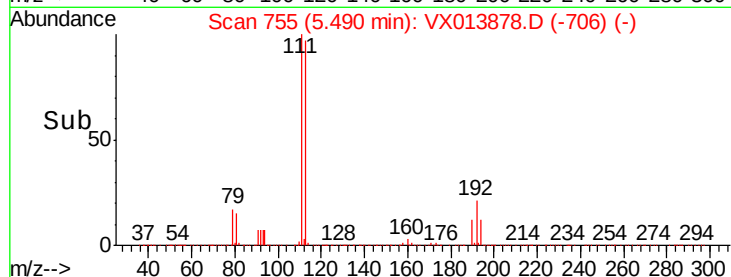
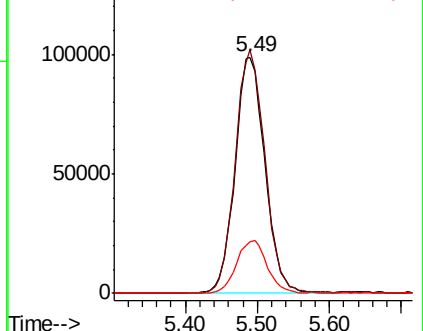
192 22.7 19.2 28.8



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: 4.801 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

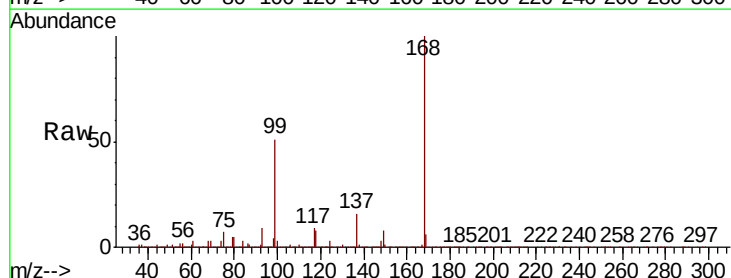
Tgt Ion: 75 Resp: 41374

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.1#

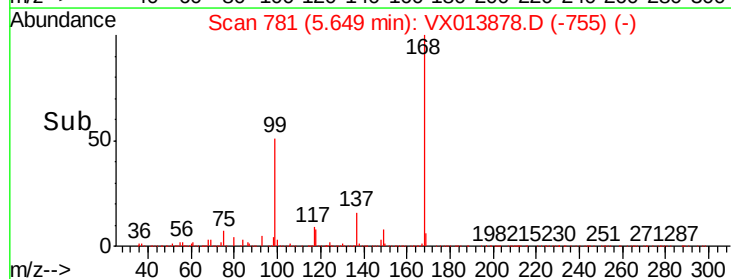
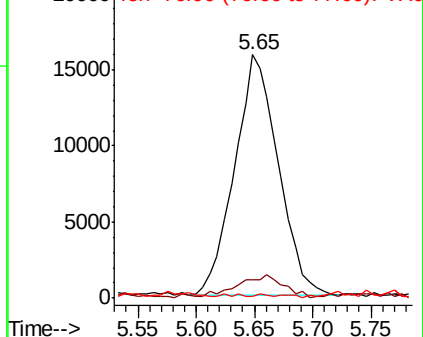
77 0.2 24.5 36.7#

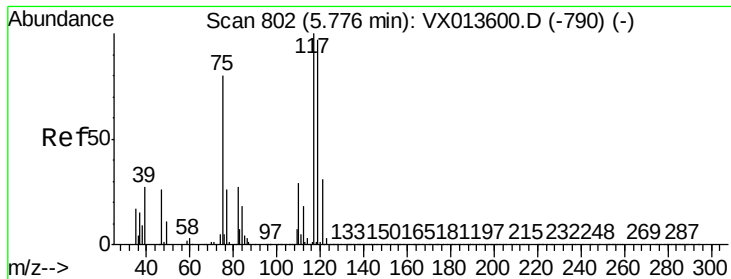


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.822 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

Instrument :

MSVOA_X

ClientSampleId :

42-SPRUCE

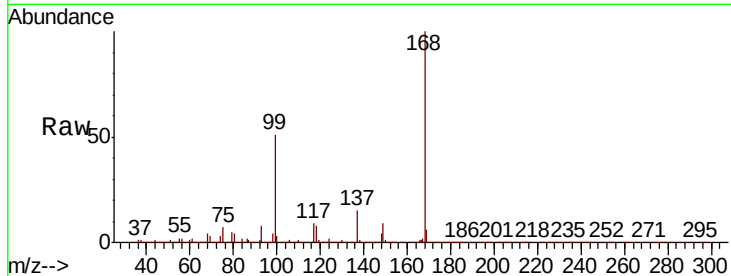
Tot Ion:117 Resp: 54208

Ion Ratio Lower Upper

117 100

119 4.8 77.5 116.3#

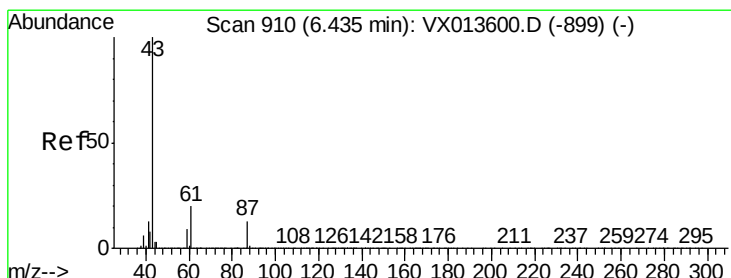
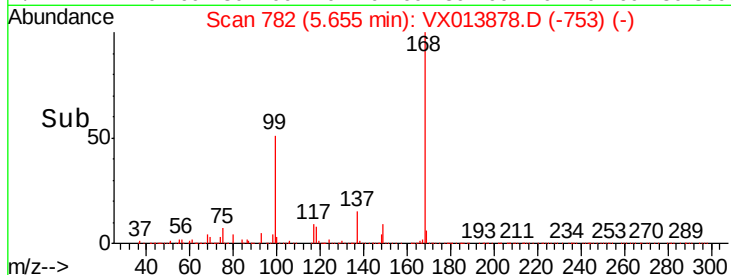
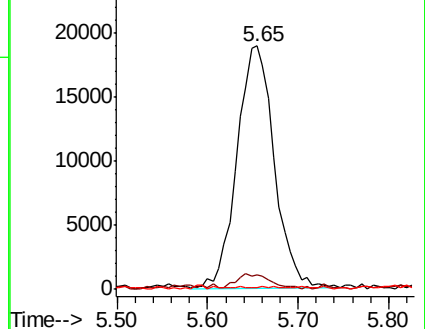
121 0.6 25.0 37.6#



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: 7.764 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

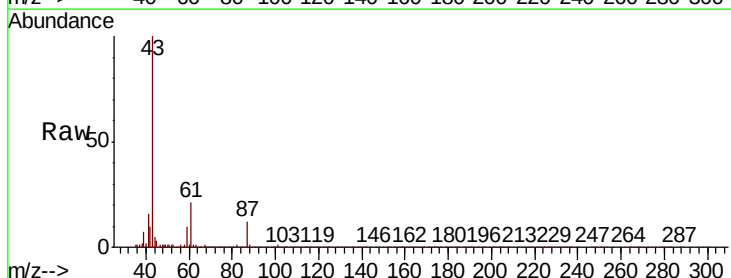
Tgt Ion: 43 Resp: 123566

Ion Ratio Lower Upper

43 100

61 20.3 16.3 24.5

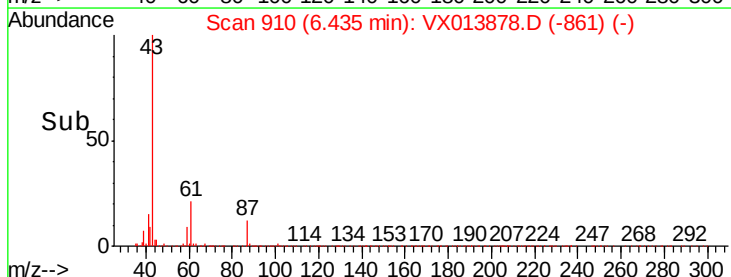
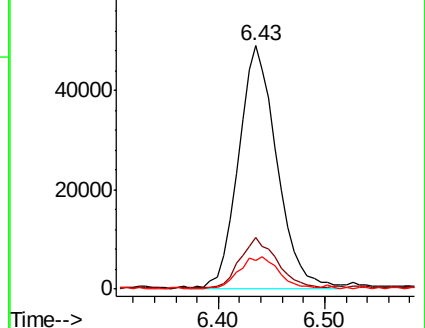
87 13.4 10.8 16.2

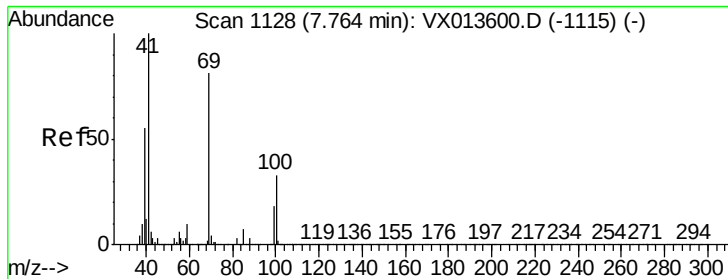


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

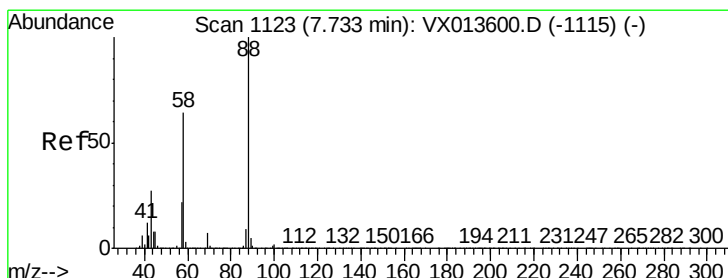
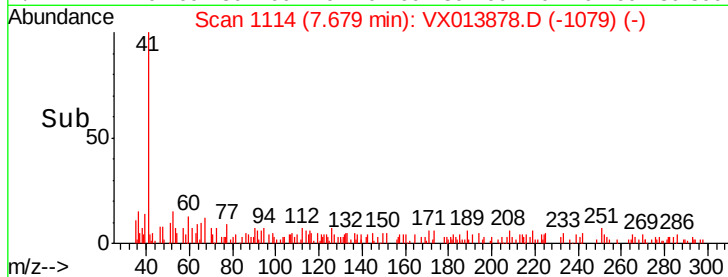
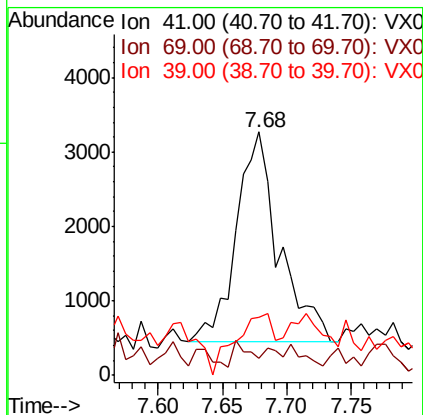
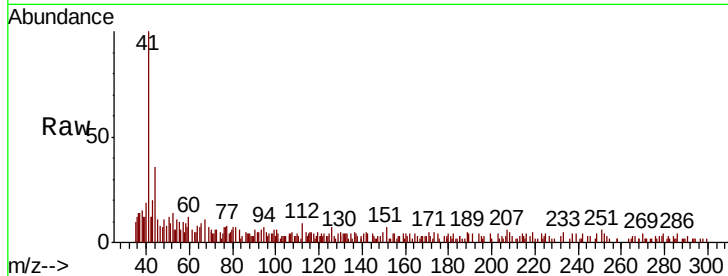




#48
Methyl methacrylate
Concen: 0.840 ug/l
RT: 7.68 min Scan# 1114
Delta R.T. -0.09 min
Lab File: VX013878.D
Acq: 10 Dec 2019 02:41

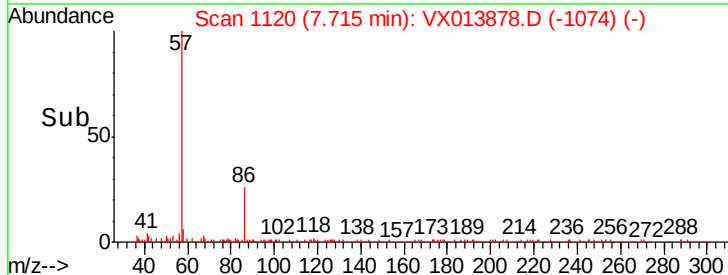
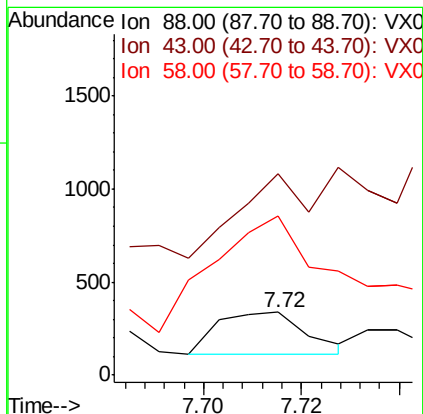
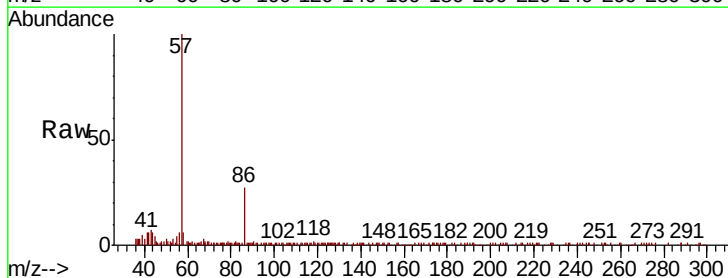
Instrument :
MSVOA_X
ClientSampleId :
42-SPRUCE

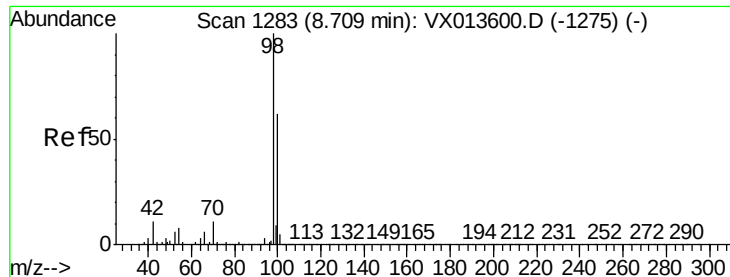
Tot Ion	Ratio	Lower	Upper
41	100		
69	1.6	64.7	97.1#
39	0.0	43.8	65.6#



#49
1,4-Dioxane
Concen: 1.647 ug/l
RT: 7.72 min Scan# 1120
Delta R.T. -0.02 min
Lab File: VX013878.D
Acq: 10 Dec 2019 02:41

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	25.8	38.6#
58	464.2	54.6	82.0#





#50

Toluene-d8

Concen: 49.740 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

Instrument :

MSVOA_X

ClientSampleId :

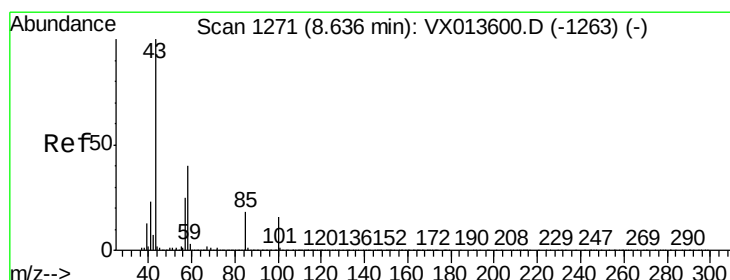
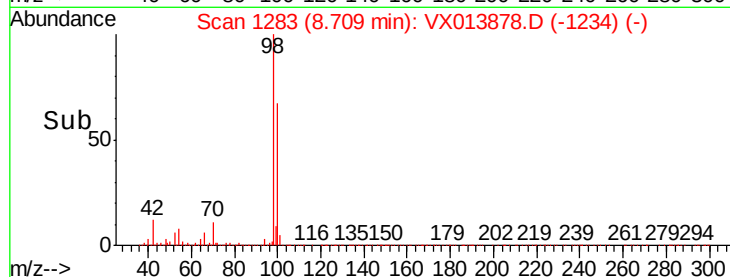
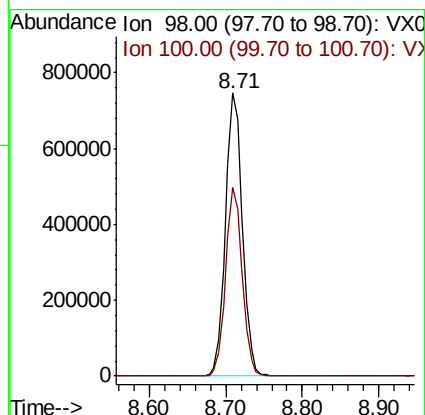
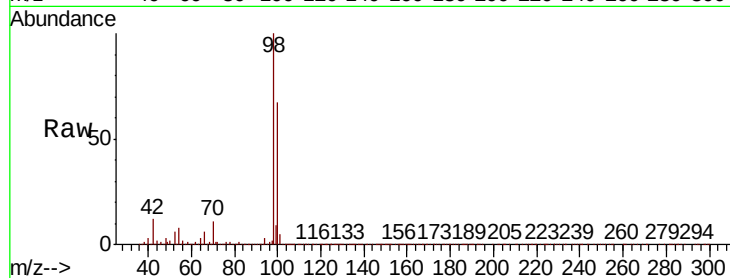
42-SPRUCE

Tot Ion: 98 Resp: 1137266

Ion Ratio Lower Upper

98 100

100 65.4 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 12.001 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX013878.D

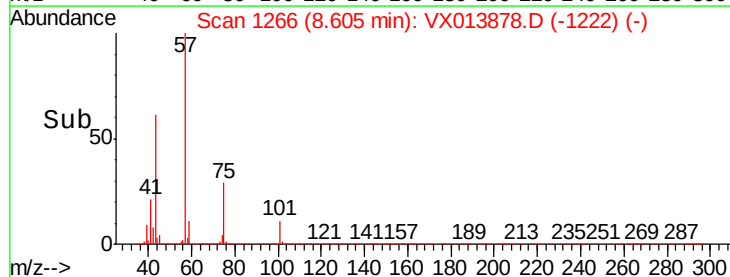
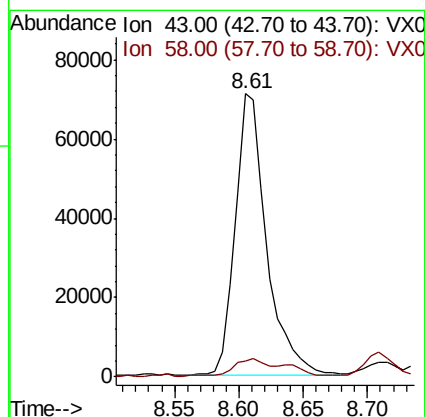
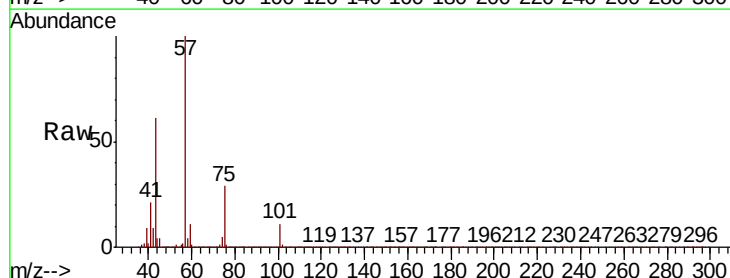
Acq: 10 Dec 2019 02:41

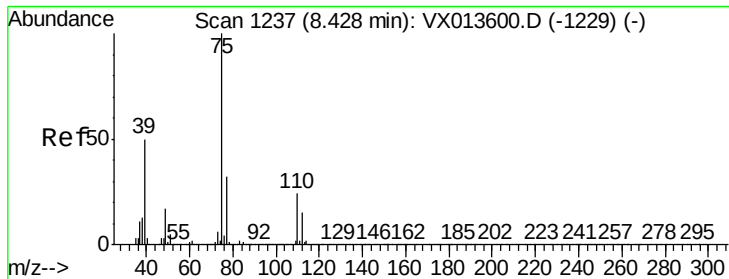
Tgt Ion: 43 Resp: 120137

Ion Ratio Lower Upper

43 100

58 7.1 32.1 48.1#



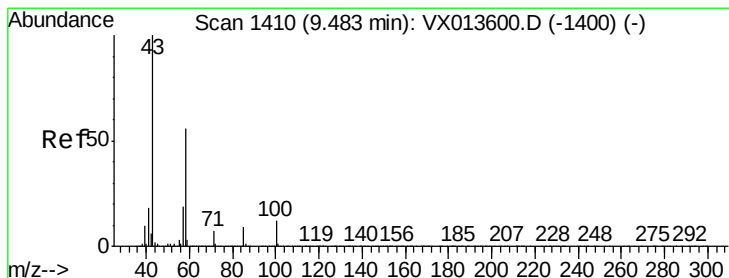
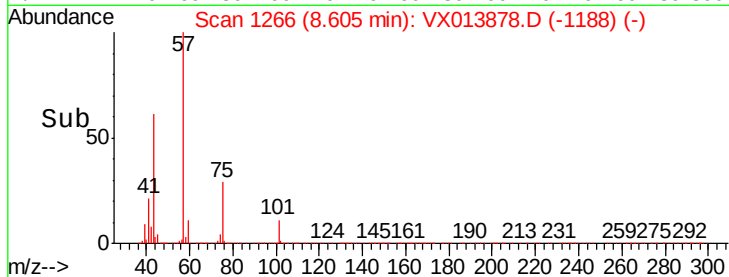
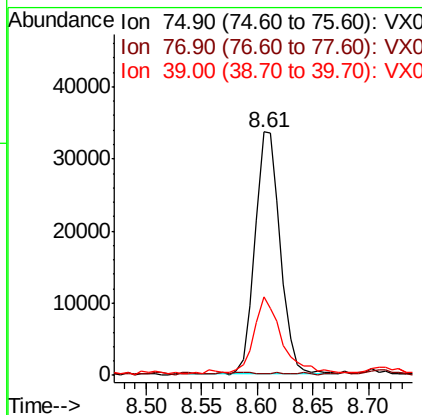
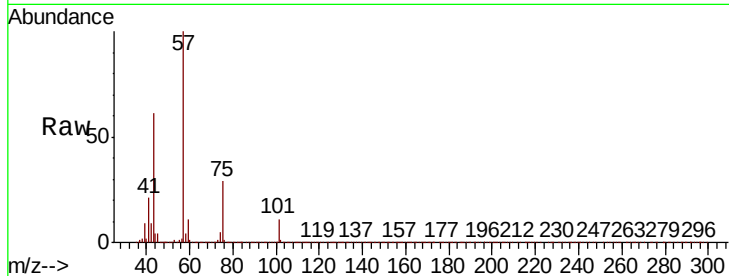


#54

cis-1,3-Dichloropropene
 Concen: 5.088 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. 0.18 min
 Lab File: VX013878.D
 Acq: 10 Dec 2019 02:41

Instrument :
 MSVOA_X
 ClientSampleId :
 42-SPRUCE

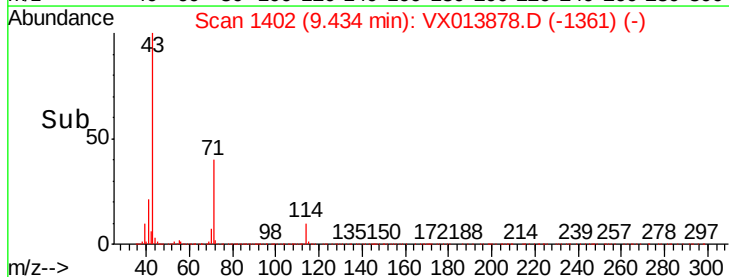
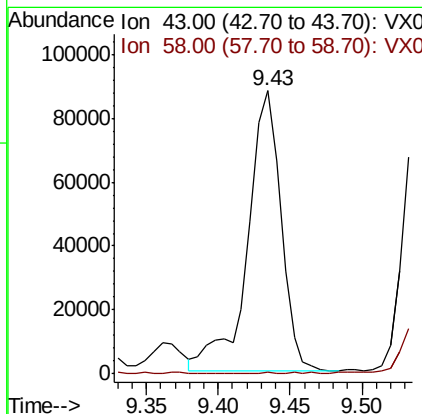
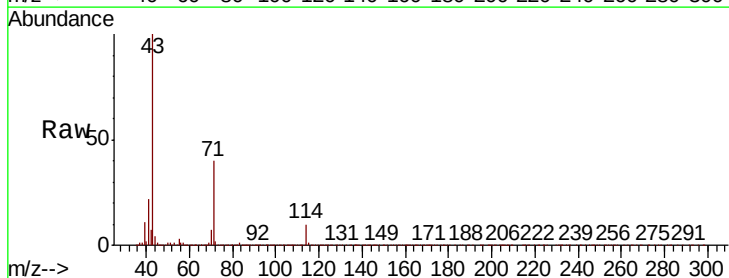
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.3	25.8	38.6#
39	31.6	39.9	59.9#

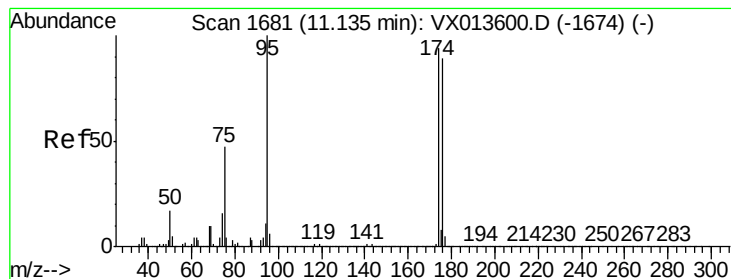


#59

2-Hexanone
 Concen: 18.027 ug/l
 RT: 9.43 min Scan# 1402
 Delta R.T. -0.05 min
 Lab File: VX013878.D
 Acq: 10 Dec 2019 02:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.1	84.4#





#62

4-Bromofluorobenzene

Concen: 46.422 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

Instrument :

MSVOA_X

ClientSampleId :

42-SPRUCE

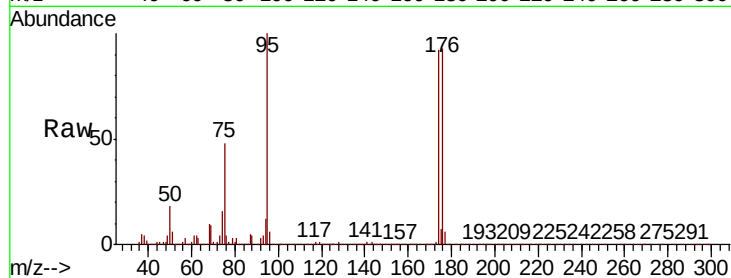
Tot Ion: 95 Resp: 382745

Ion Ratio Lower Upper

95 100

174 89.1 0.0 180.0

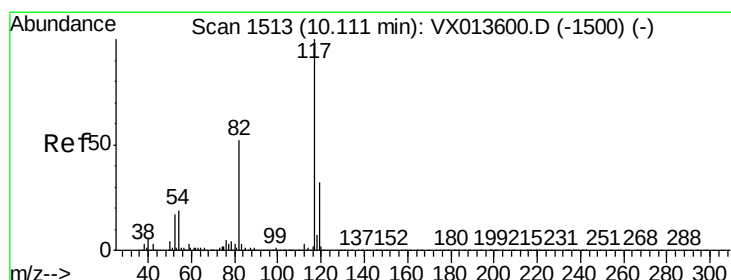
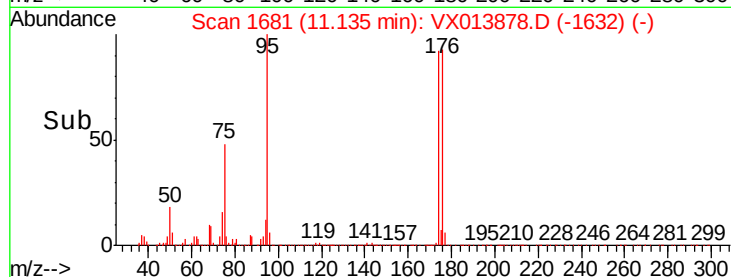
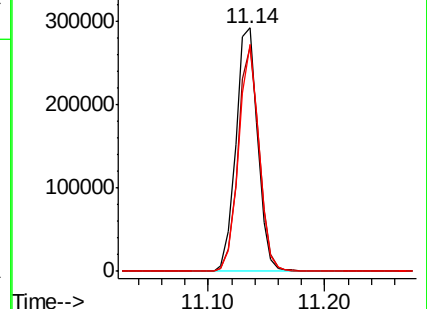
176 87.2 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX013600.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX013600.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

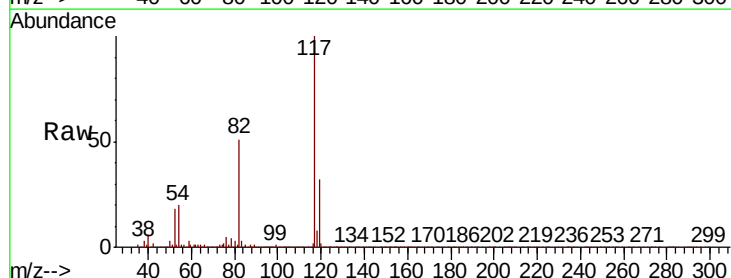
Tgt Ion: 117 Resp: 864903

Ion Ratio Lower Upper

117 100

82 51.3 41.8 62.8

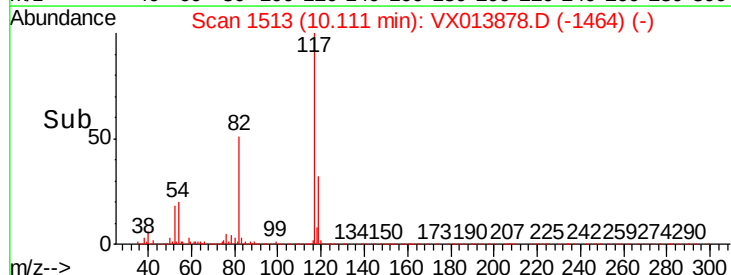
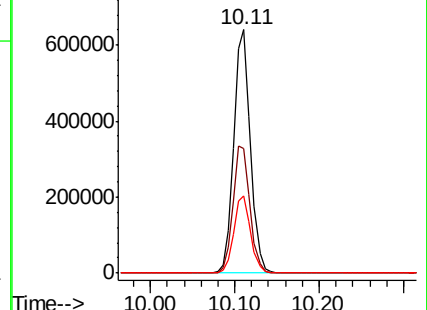
119 31.9 25.8 38.8

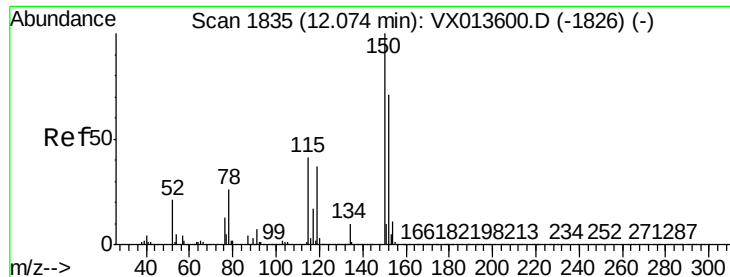


Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

Ion 82.00 (81.70 to 82.70): VX013600.D (-1500) (-)

Ion 118.90 (118.60 to 119.60): VX013600.D (-1500) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

Instrument :

MSVOA_X

ClientSampleId :

42-SPRUCE

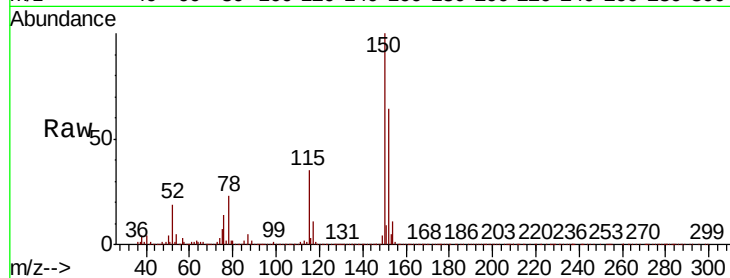
Tot Ion:152 Resp: 385749

Ion Ratio Lower Upper

152 100

115 54.9 38.4 115.1

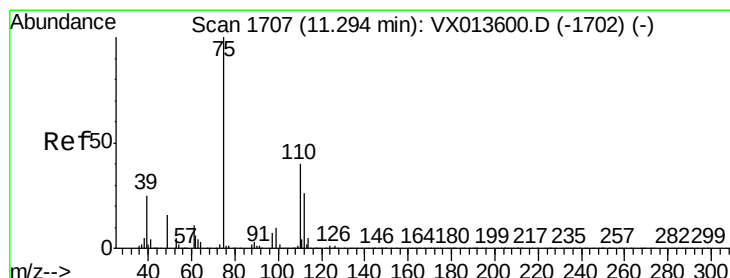
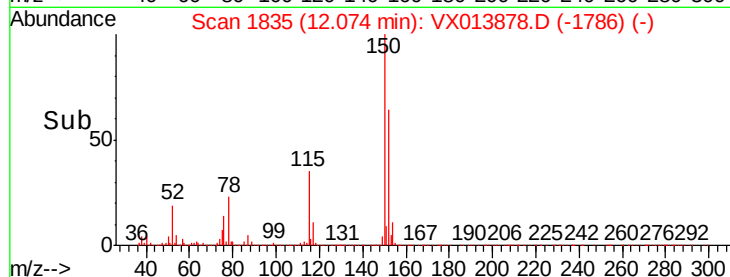
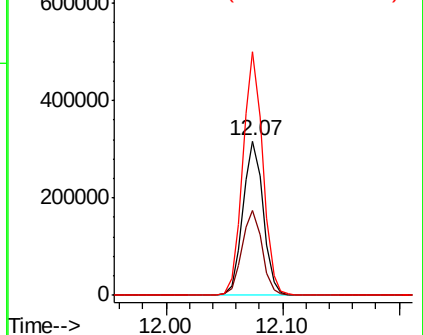
150 155.3 0.0 346.8



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: 21.218 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013878.D

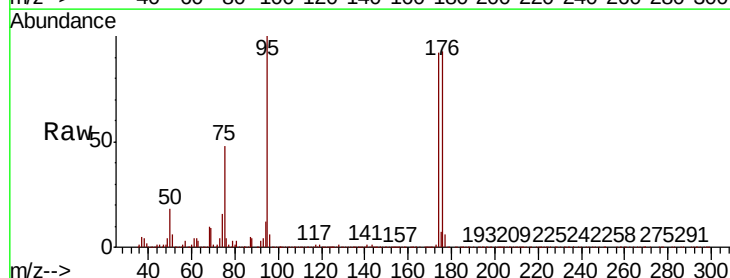
Acq: 10 Dec 2019 02:41

Tgt Ion: 75 Resp: 184095

Ion Ratio Lower Upper

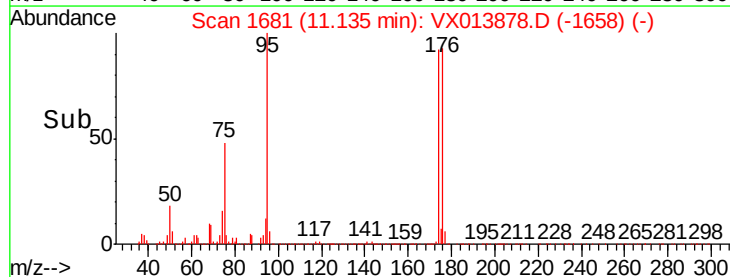
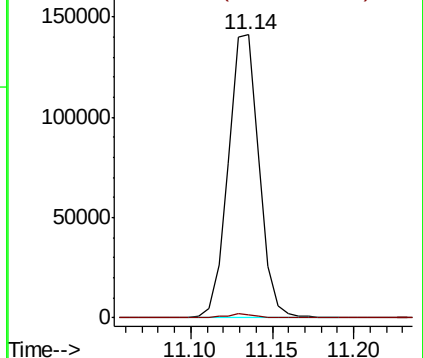
75 100

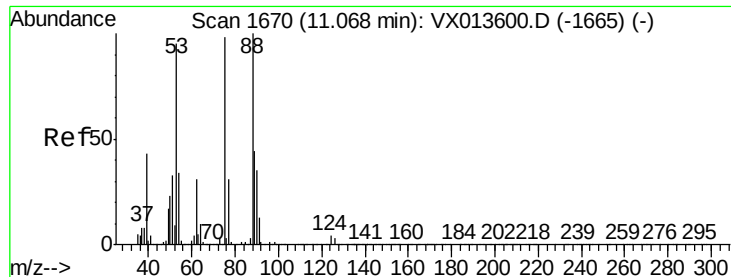
77 1.5 19.1 57.5#



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: 58.050 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

Instrument :

MSVOA_X

ClientSampleId :

42-SPRUCE

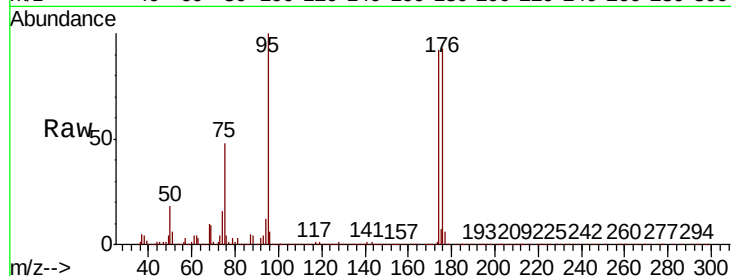
Tot Ion: 75 Resp: 184095

Ion Ratio Lower Upper

75 100

53 0.3 78.2 117.2#

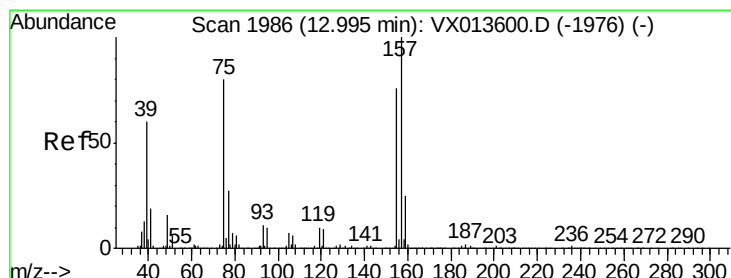
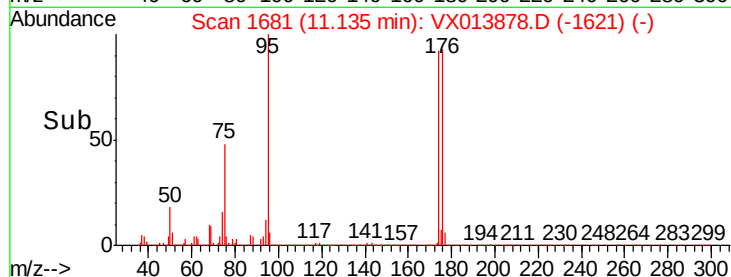
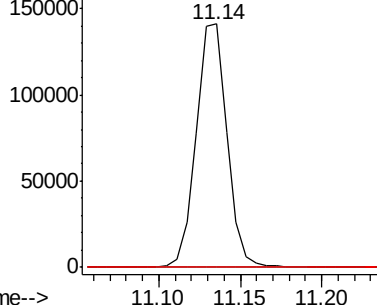
89 0.1 35.4 53.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.250 ug/l

RT: 12.90 min Scan# 1970

Delta R.T. -0.10 min

Lab File: VX013878.D

Acq: 10 Dec 2019 02:41

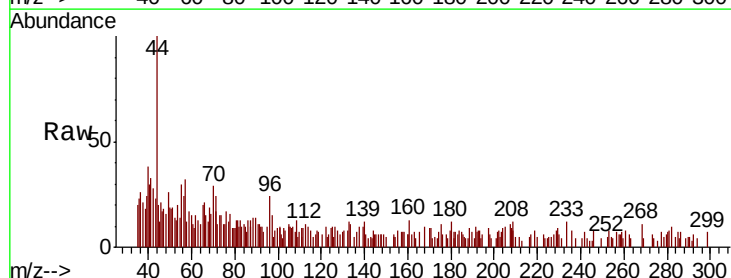
Tgt Ion: 75 Resp: 511

Ion Ratio Lower Upper

75 100

155 122.5 47.6 142.8

157 98.8 62.1 186.2



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

