

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120919\
 Data File : VX013879.D
 Acq On : 10 Dec 2019 03:04
 Operator : JC/SP
 Sample : K6176-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 48-SPRUCE

Quant Time: Dec 12 08:19:42 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	593749	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	916089	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	832783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	366386	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	335901	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
35) Dibromofluoromethane	5.49	113	271270	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
50) Toluene-d8	8.71	98	1098520	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	11.14	95	367603	46.20	ug/l	0.00
Spiked Amount			Recovery	=	92.40%	

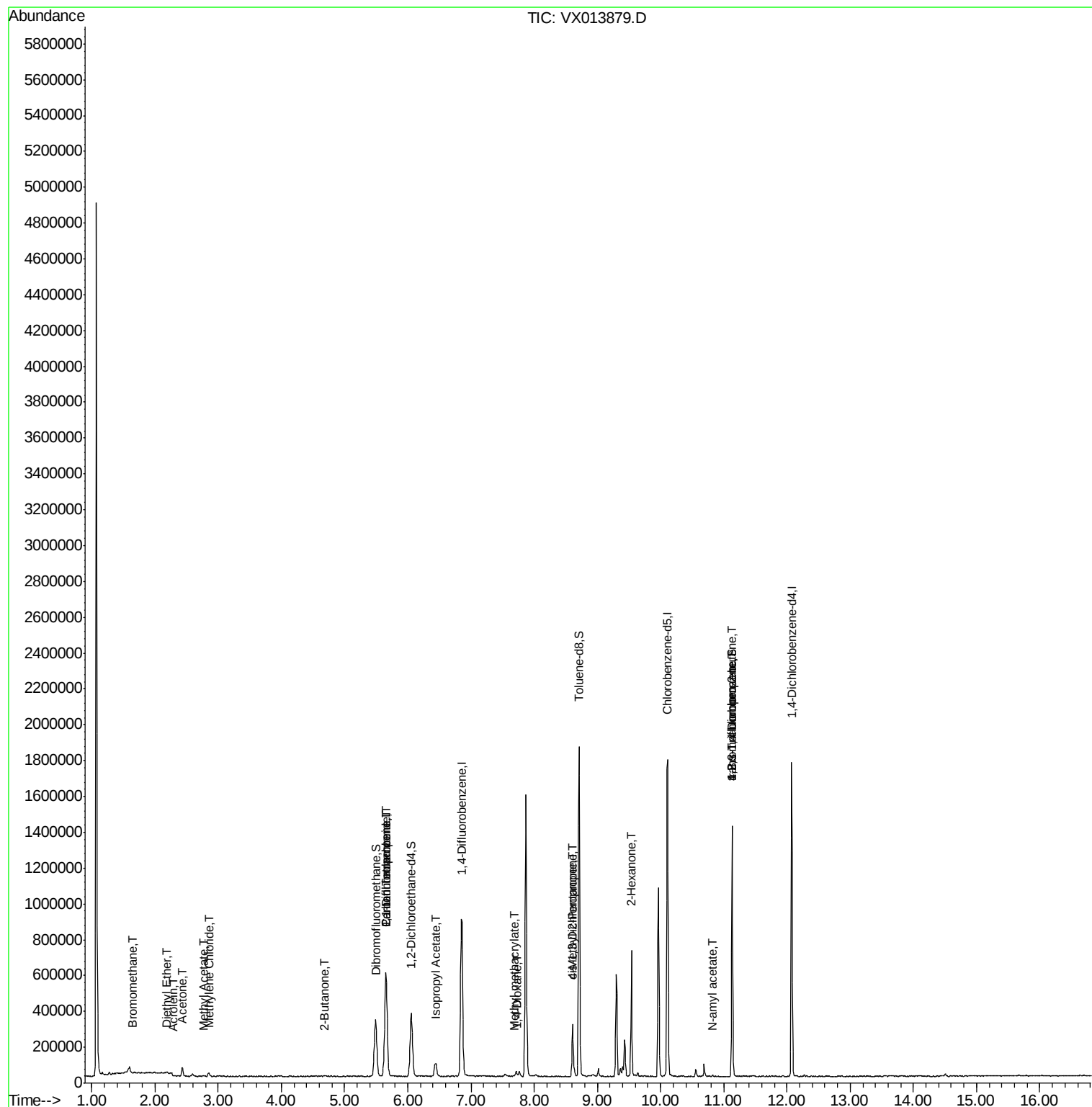
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1823	0.325	ug/l	82
8) Diethyl Ether	2.17	74	2654	0.633	ug/l	58
13) Acrolein	2.29	56	636	6.549	ug/l #	15
16) Acetone	2.43	43	51600	15.164	ug/l	96
18) Methyl Acetate	2.76	43	7759	0.819	ug/l	94
20) Methylene Chloride	2.85	84	11204	1.714	ug/l	95
25) 2-Butanone	4.68	43	7855	1.553	ug/l #	71
36) 1,1-Dichloropropene	5.65	75	40573	4.879	ug/l #	51
38) Carbon Tetrachloride	5.66	117	53055	6.919	ug/l #	16
43) Isopropyl Acetate	6.44	43	107099	6.973	ug/l	98
48) Methyl methacrylate	7.68	41	5927	0.794	ug/l #	21
49) 1,4-Dioxane	7.73	88	444	2.658	ug/l #	24
51) 4-Methyl-2-Pentanone	8.61	43	110303	11.417	ug/l #	45
54) cis-1,3-Dichloropropene	8.61	75	48963	4.839	ug/l #	60
59) 2-Hexanone	9.54	43	79170	10.507	ug/l #	52
74) N-amyl acetate	10.82	43	5067	0.430	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	178207	21.625	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	178207	59.163	ug/l #	11

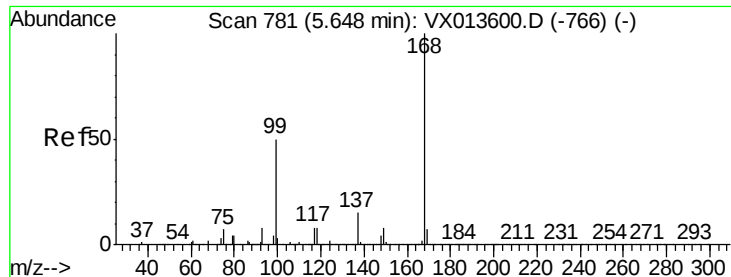
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013879.D

Acq: 10 Dec 2019 03:04

Instrument :

MSVOA_X

ClientSampleId :

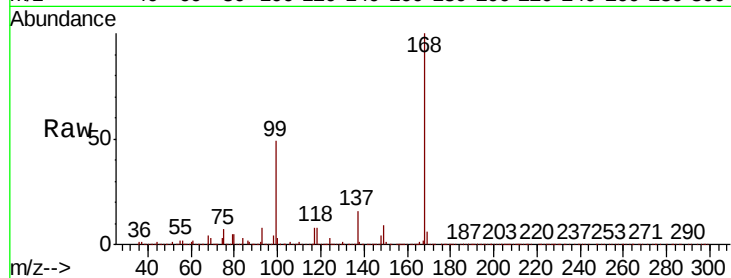
48-SPRUCE

Tot Ion:168 Resp: 593749

Ion Ratio Lower Upper

168 100

99 49.3 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

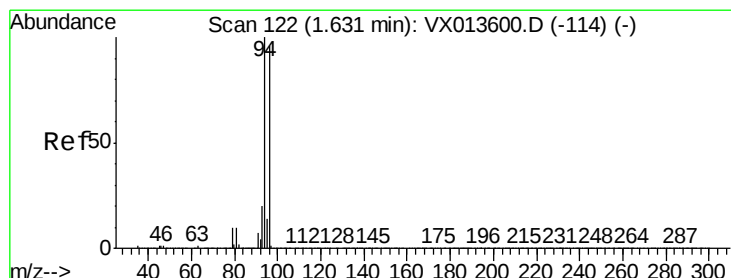
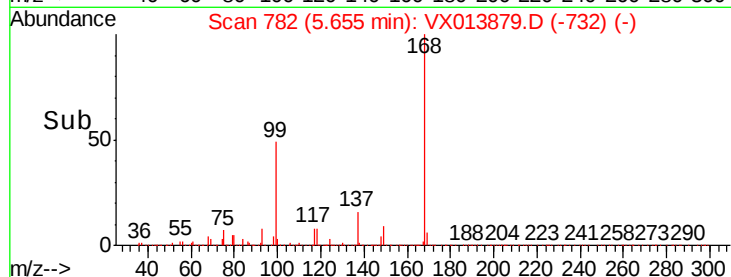
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.325 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013879.D

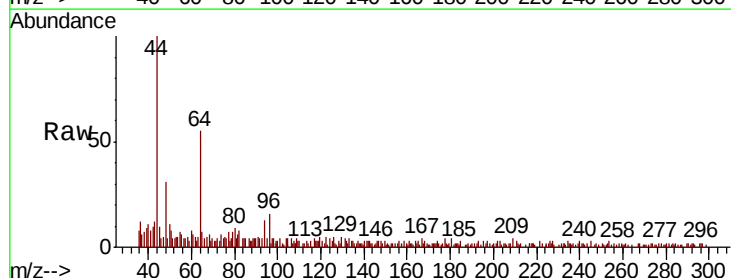
Acq: 10 Dec 2019 03:04

Tgt Ion: 94 Resp: 1823

Ion Ratio Lower Upper

94 100

96 78.3 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

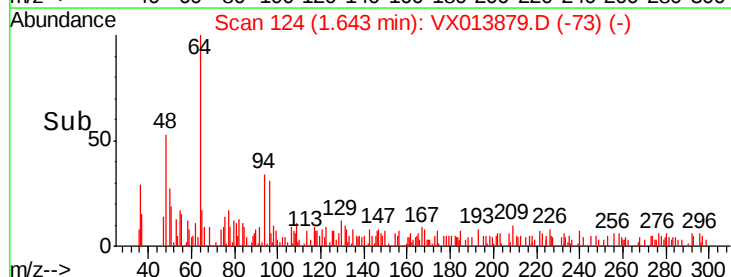
400

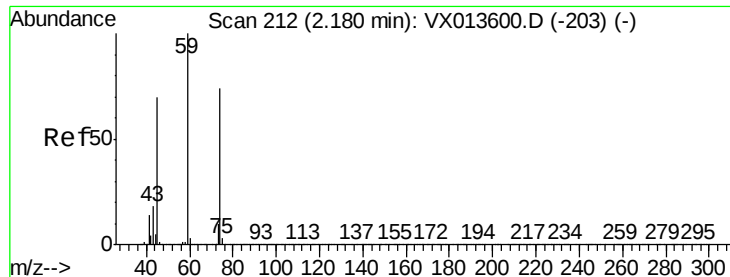
200

0

Time-->

1.60 1.65 1.70





#8

Diethyl Ether

Concen: 0.633 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX013879.D

Acq: 10 Dec 2019 03:04

Instrument :

MSVOA_X

ClientSampled :

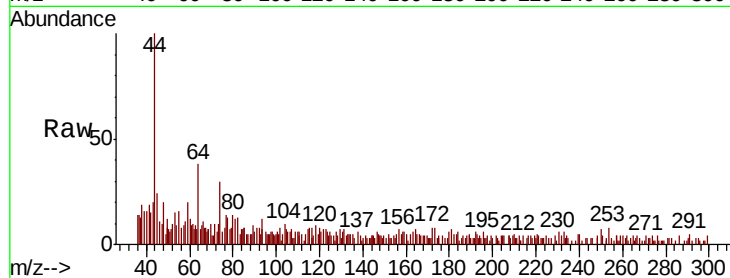
48-SPRUCE

Tot Ion: 74 Resp: 2654

Ion Ratio Lower Upper

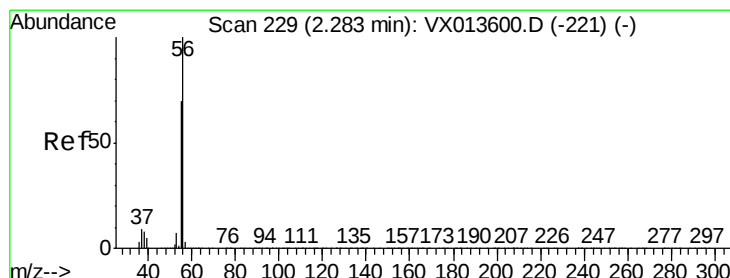
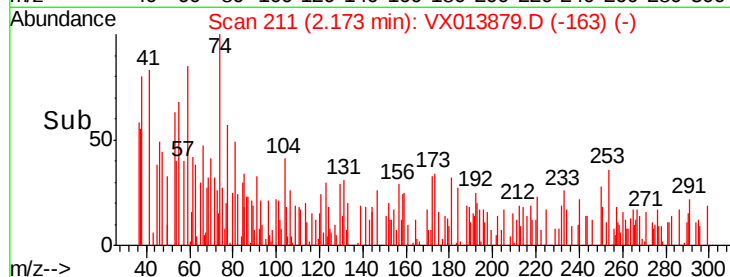
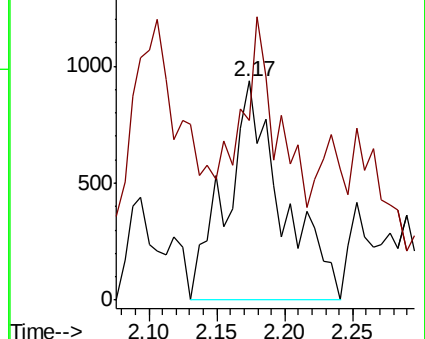
74 100

45 56.7 48.9 146.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#13

Acrolein

Concen: 6.549 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX013879.D

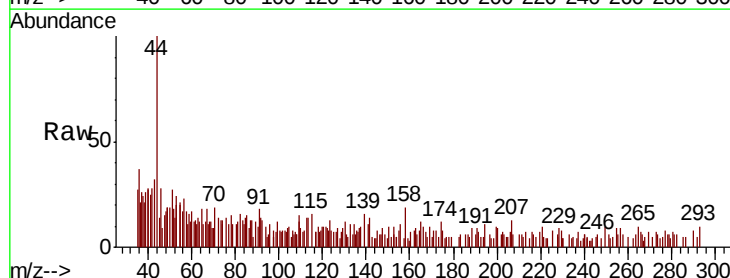
Acq: 10 Dec 2019 03:04

Tgt Ion: 56 Resp: 636

Ion Ratio Lower Upper

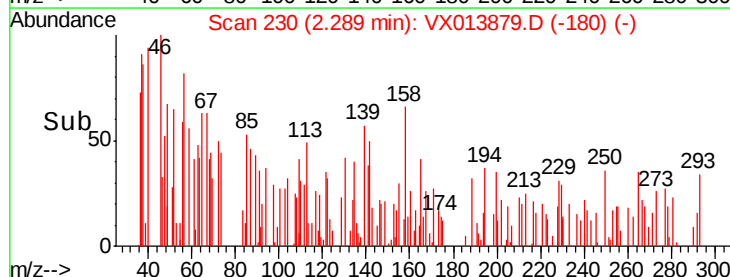
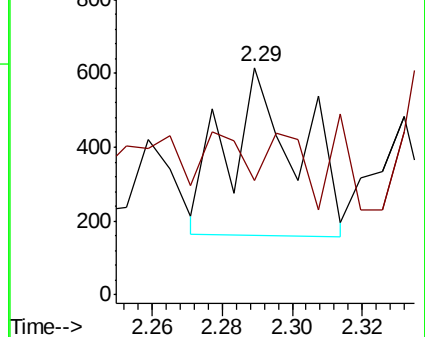
56 100

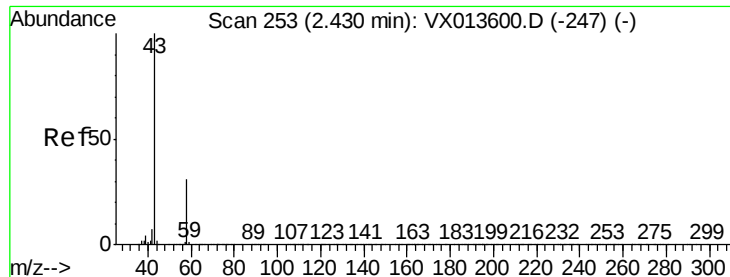
55 0.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 15.164 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013879.D

Acq: 10 Dec 2019 03:04

Instrument :

MSVOA_X

ClientSampleId :

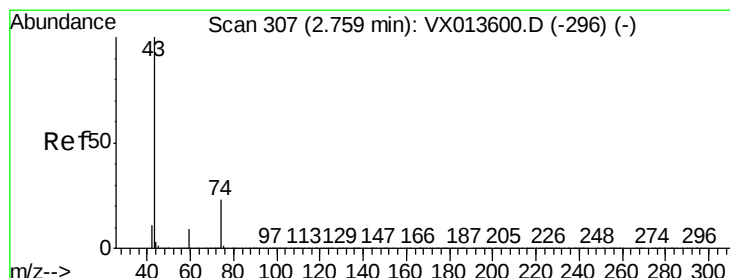
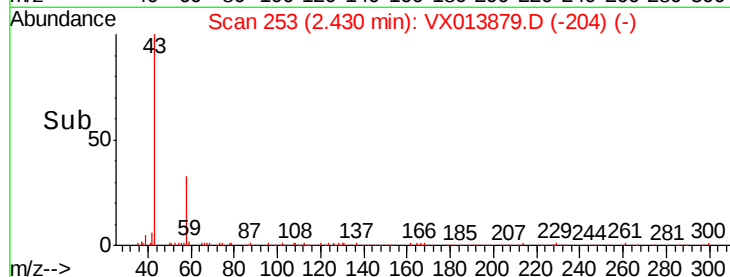
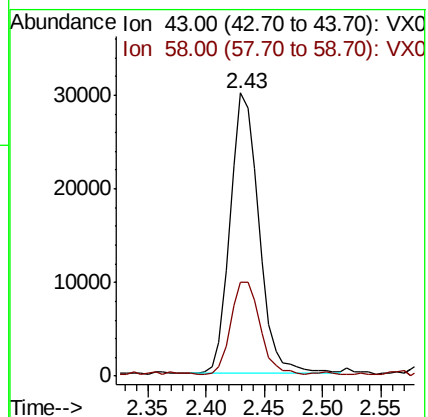
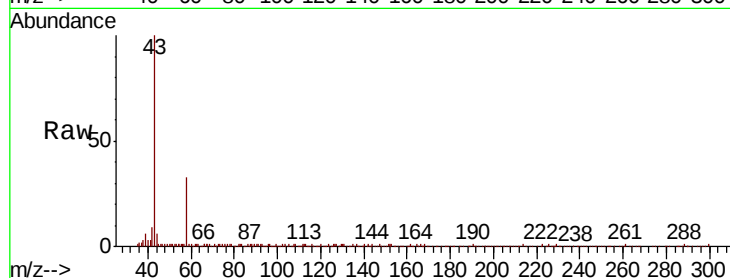
48-SPRUCE

Tot Ion: 43 Resp: 51600

Ion Ratio Lower Upper

43 100

58 32.7 24.6 36.8



#18

Methyl Acetate

Concen: 0.819 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.01 min

Lab File: VX013879.D

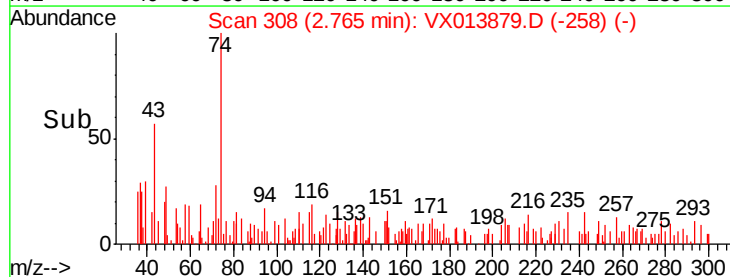
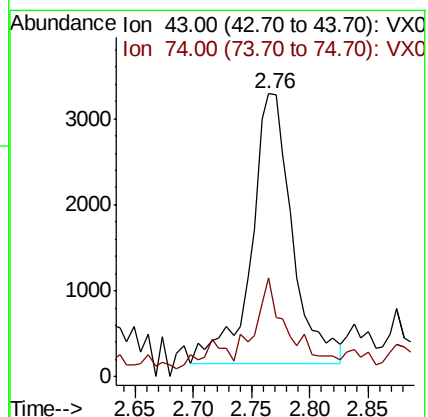
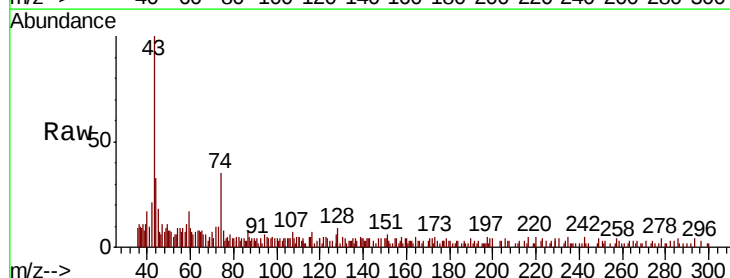
Acq: 10 Dec 2019 03:04

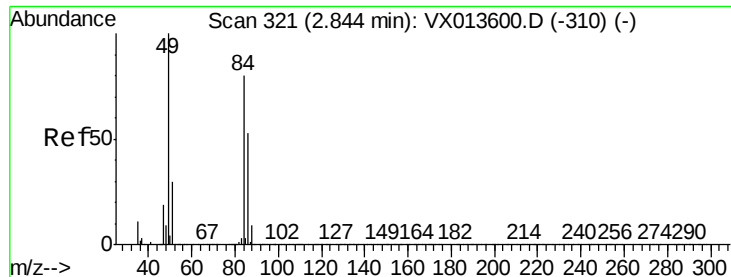
Tgt Ion: 43 Resp: 7759

Ion Ratio Lower Upper

43 100

74 27.5 19.5 29.3

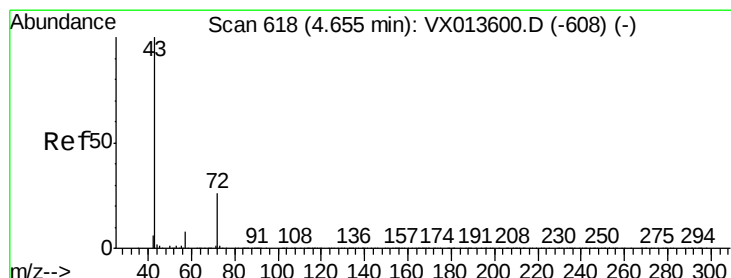
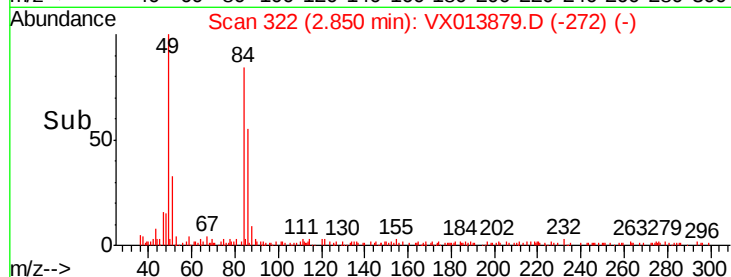
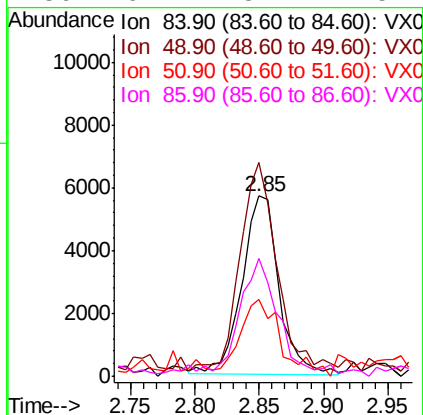
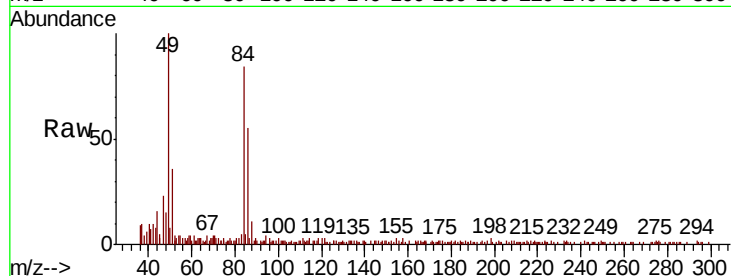




#20
Methvlene Chloride
Concen: 1.714 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013879.D
Acq: 10 Dec 2019 03:04

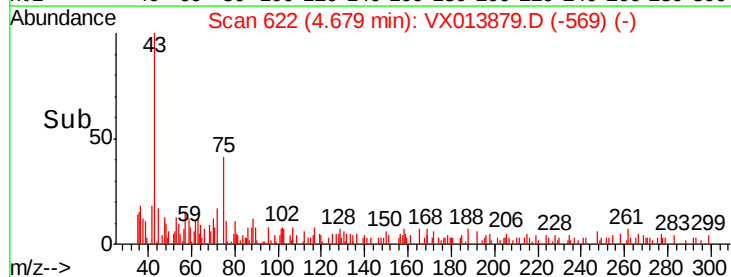
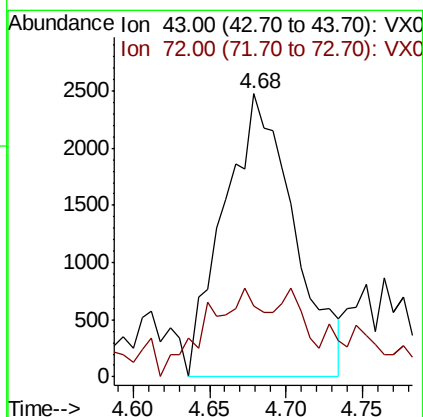
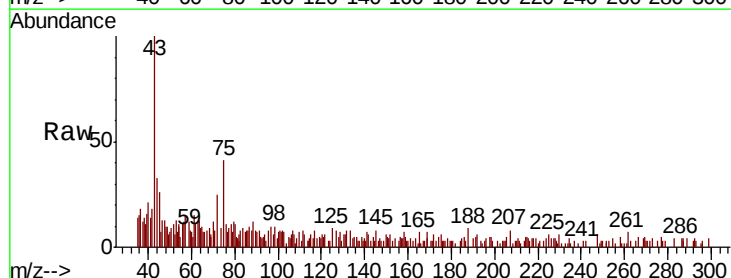
Instrument :
MSVOA_X
ClientSampled :
48-SPRUCE

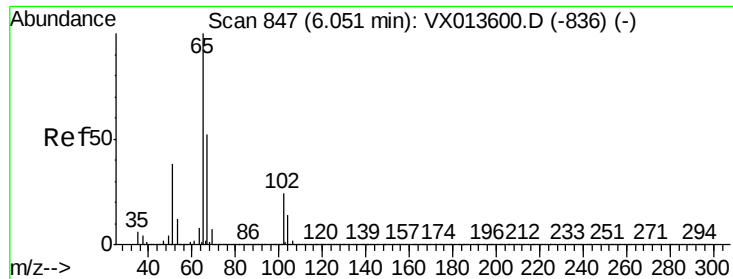
Tot Ion: 84 Resp: 11204
Ion Ratio Lower Upper
84 100
49 118.3 99.7 149.5
51 38.9 29.9 44.9
86 62.2 52.2 78.4



#25
2-Butanone
Concen: 1.553 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX013879.D
Acq: 10 Dec 2019 03:04

Tgt Ion: 43 Resp: 7855
Ion Ratio Lower Upper
43 100
72 11.3 20.6 31.0#

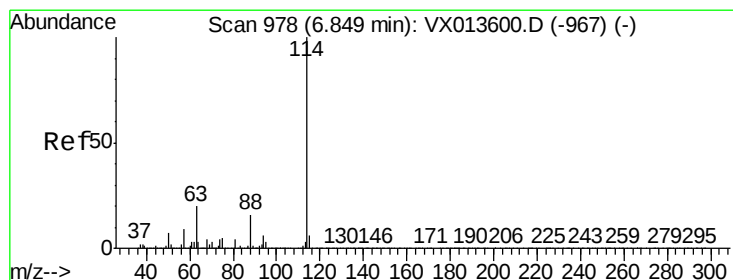
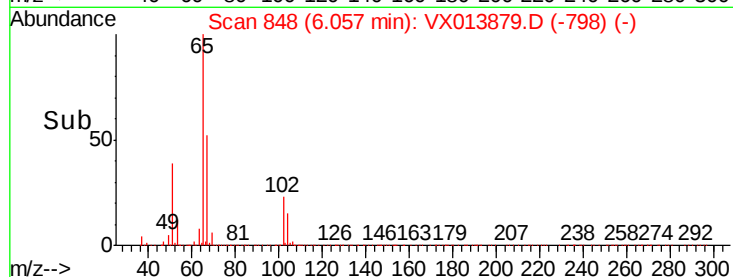
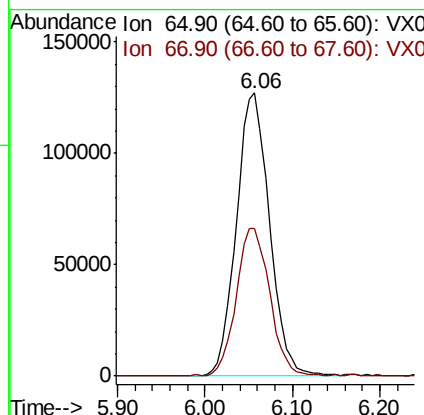
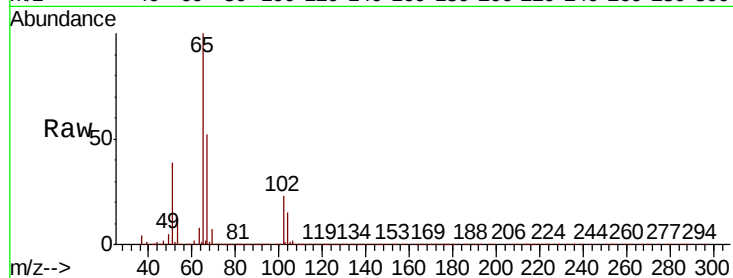




#33
 1,2-Dichloroethane-d4
 Concen: 48.737 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX013879.D
 Acq: 10 Dec 2019 03:04

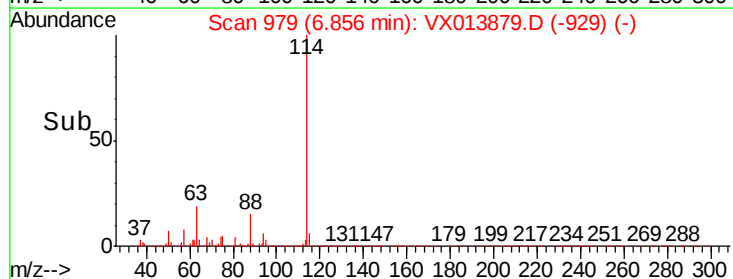
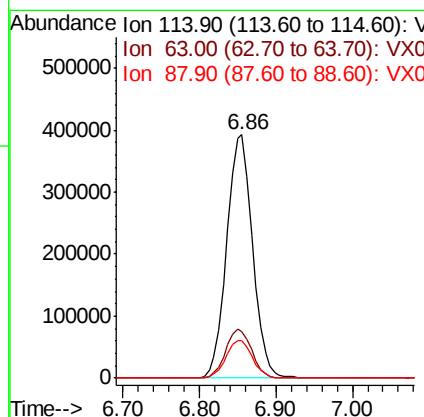
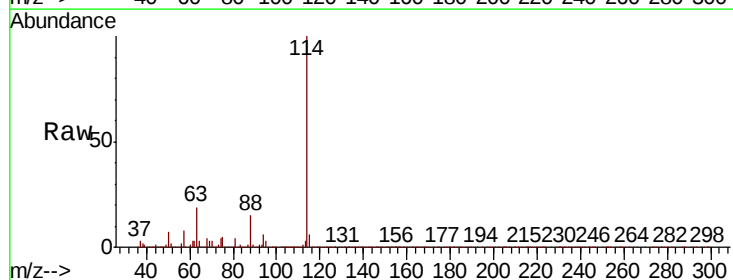
Instrument :
 MSVOA_X
 ClientSampleId :
 48-SPRUCE

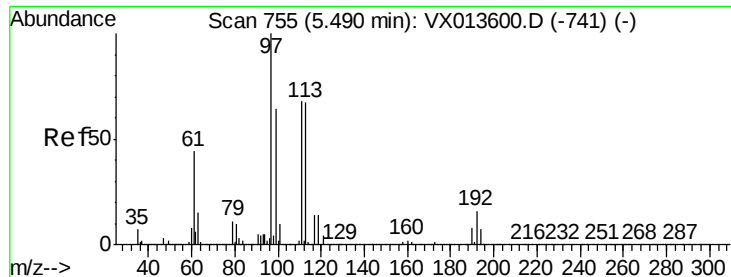
Tot Ion: 65 Resp: 335901
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX013879.D
 Acq: 10 Dec 2019 03:04

Tgt Ion: 114 Resp: 916089
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.6
 88 15.3 0.0 31.4

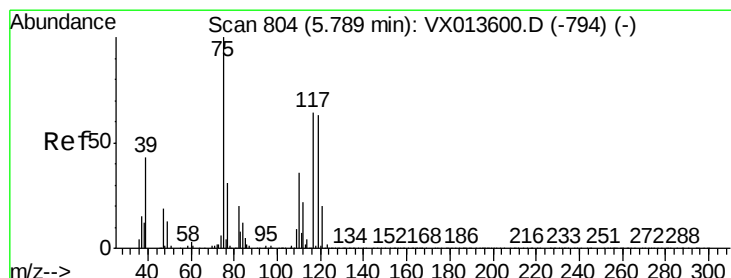
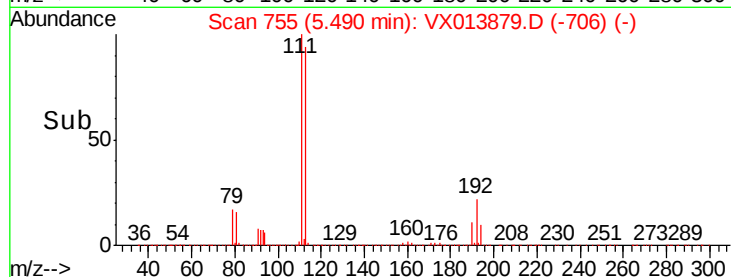
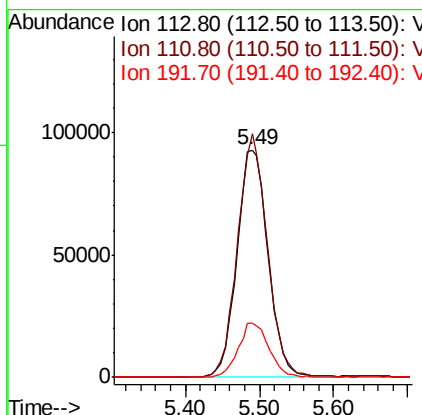
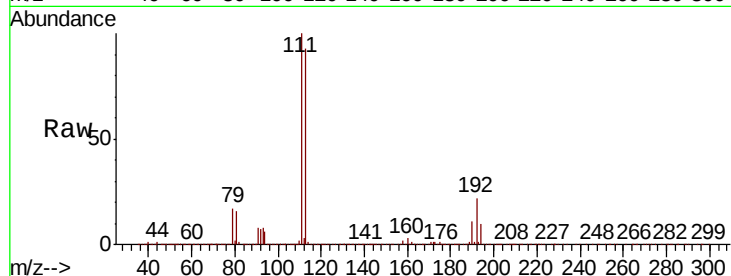




#35
 Dibromofluoromethane
 Concen: 47.899 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX013879.D
 Acq: 10 Dec 2019 03:04

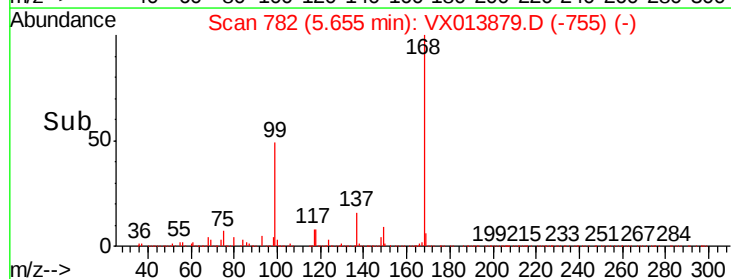
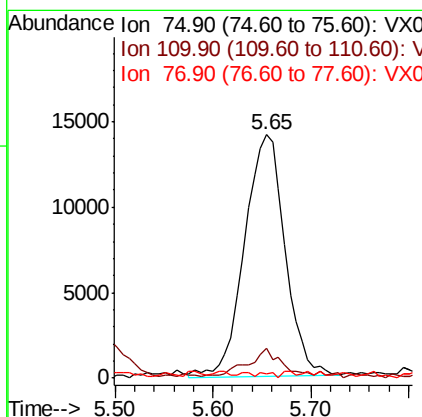
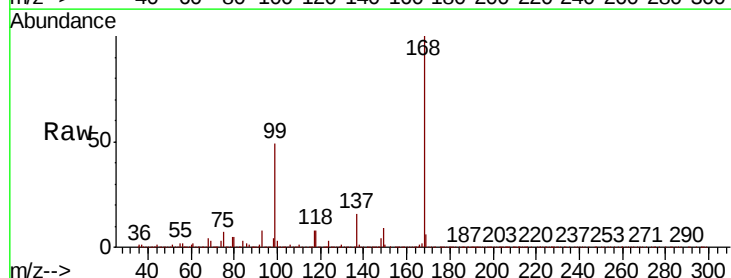
Instrument :
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 ClientSampleId :
 48-SPRUCE

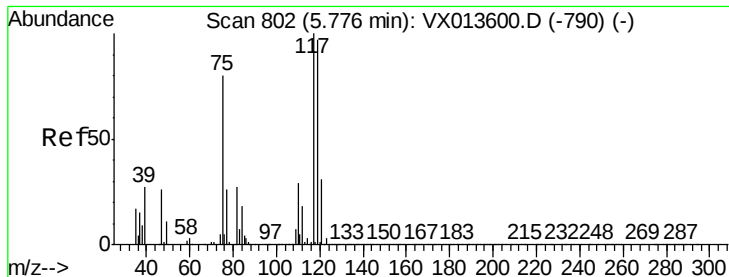
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.6	125.4
192	23.9	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.879 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX013879.D
 Acq: 10 Dec 2019 03:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	18.1	54.1#
77	0.8	24.5	36.7#

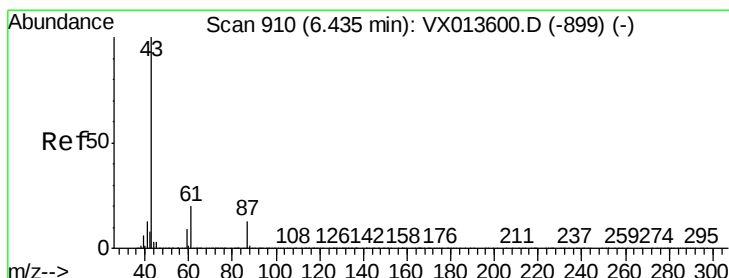
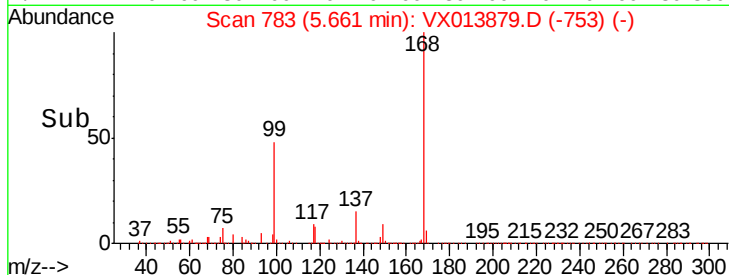
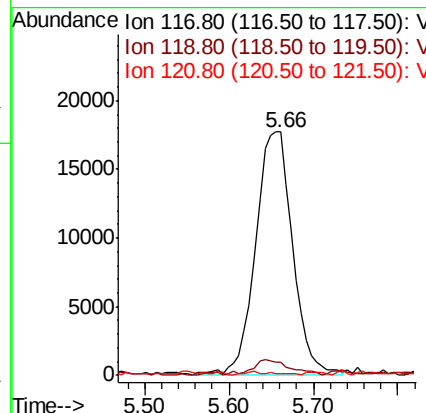
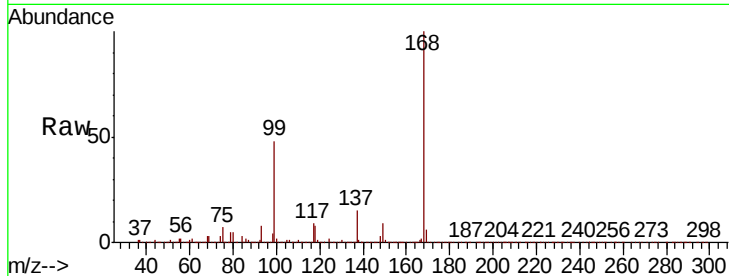




#38
Carbon Tetrachloride
Concen: 6.919 ug/l
RT: 5.66 min Scan# 783
Delta R.T. -0.12 min
Lab File: VX013879.D
Acq: 10 Dec 2019 03:04

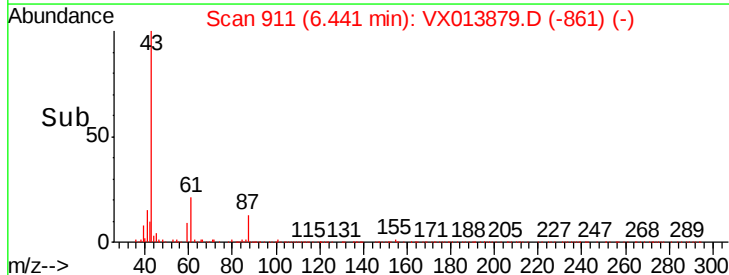
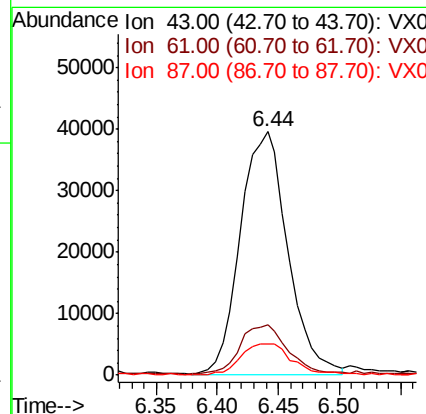
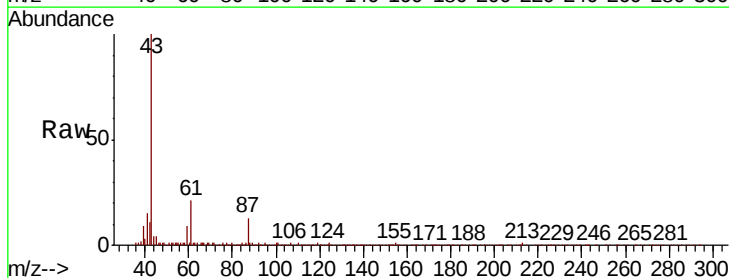
Instrument :
MSVOA_X
ClientSampleId :
48-SPRUCE

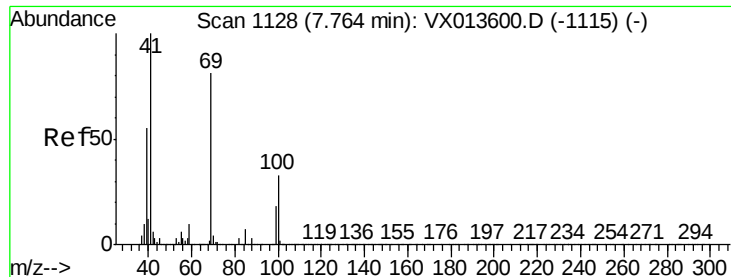
Tot Ion:117 Resp: 53055
Ion Ratio Lower Upper
117 100
119 5.7 77.5 116.3#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 6.973 ug/l
RT: 6.44 min Scan# 911
Delta R.T. 0.01 min
Lab File: VX013879.D
Acq: 10 Dec 2019 03:04

Tgt Ion: 43 Resp: 107099
Ion Ratio Lower Upper
43 100
61 21.4 16.3 24.5
87 14.2 10.8 16.2

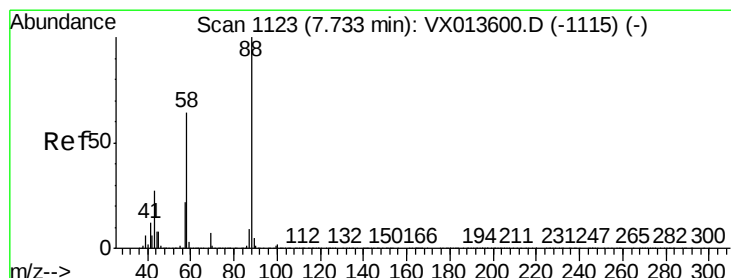
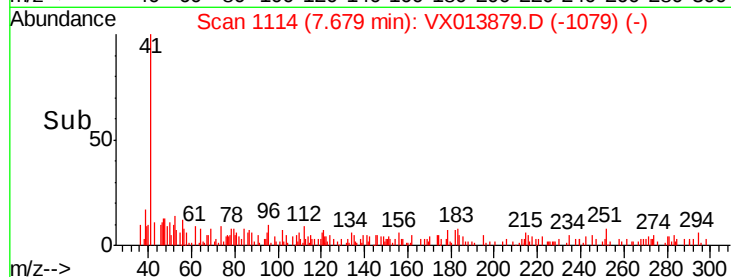
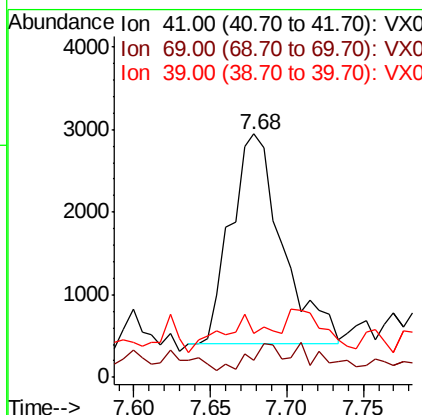
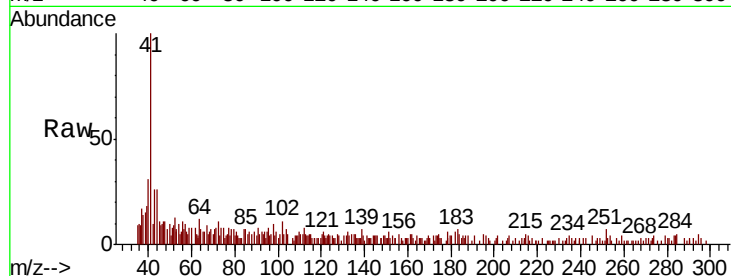




#48
Methvl methacrylate
Concen: 0.794 ug/l
RT: 7.68 min Scan# 1114
Delta R.T. -0.09 min
Lab File: VX013879.D
Acq: 10 Dec 2019 03:04

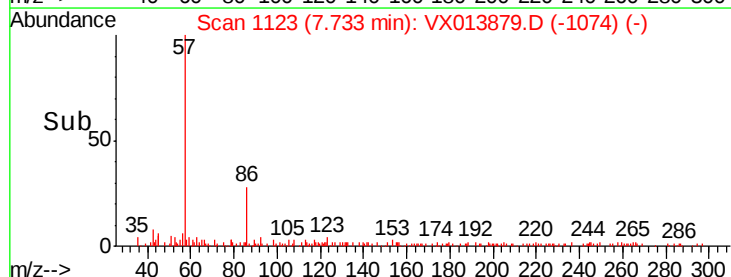
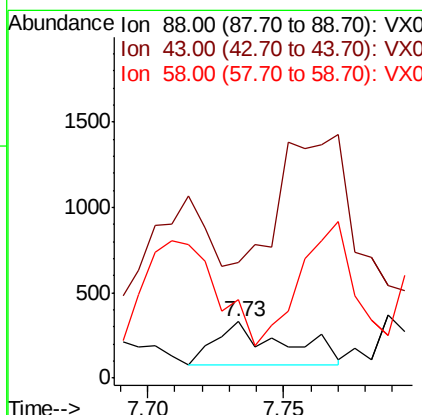
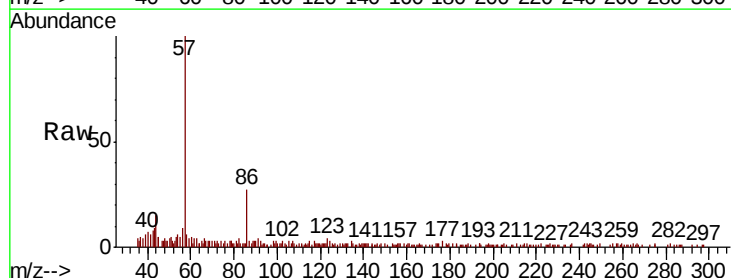
Instrument :
MSVOA_X
ClientSampleId :
48-SPRUCE

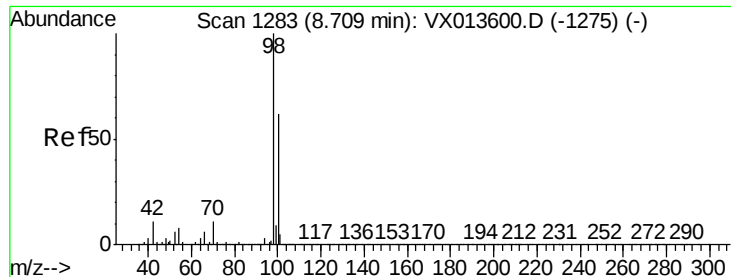
Tot Ion	Ratio	Lower	Upper
41	100		
69	8.4	64.7	97.1#
39	0.0	43.8	65.6#



#49
1,4-Dioxane
Concen: 2.658 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VX013879.D
Acq: 10 Dec 2019 03:04

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





#50

Toluene-d8

Concen: 49.785 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013879.D

Acq: 10 Dec 2019 03:04

Instrument :

MSVOA_X

ClientSampleId :

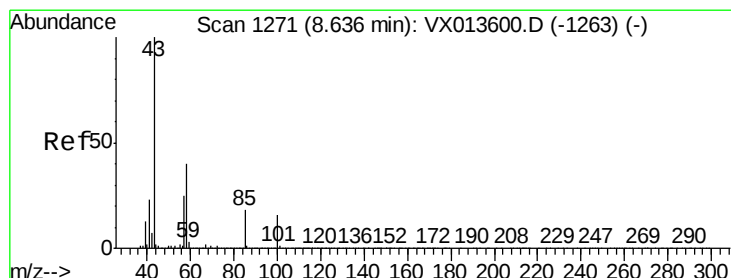
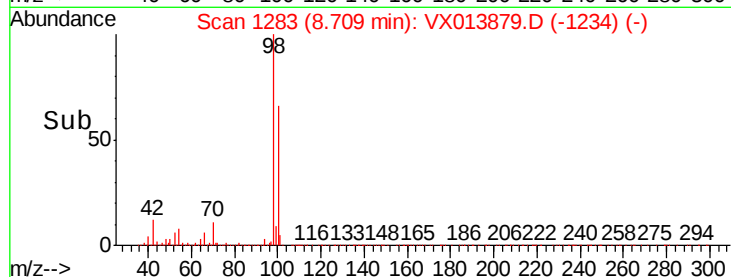
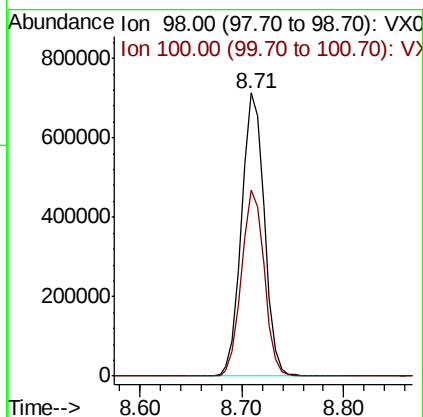
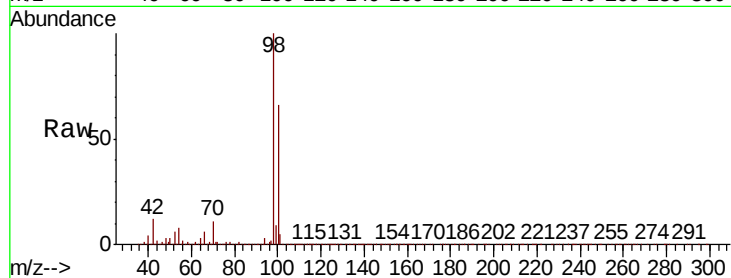
48-SPRUCE

Tot Ion: 98 Resp: 1098520

Ion Ratio Lower Upper

98 100

100 65.7 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 11.417 ug/l

RT: 8.61 min Scan# 1267

Delta R.T. -0.02 min

Lab File: VX013879.D

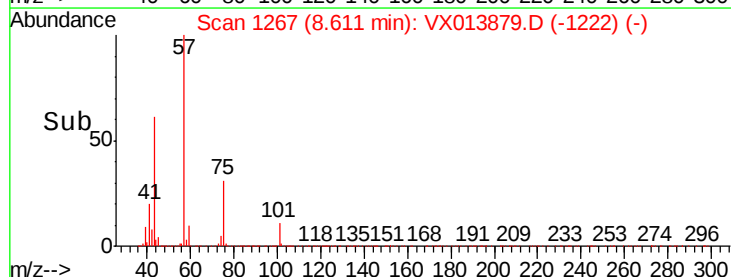
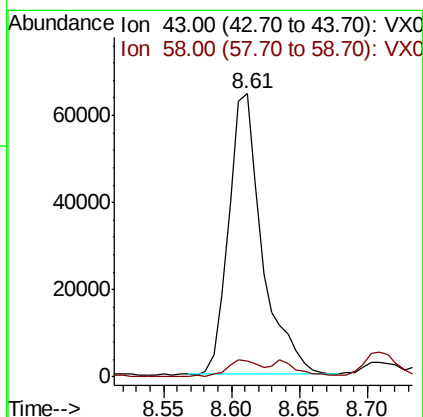
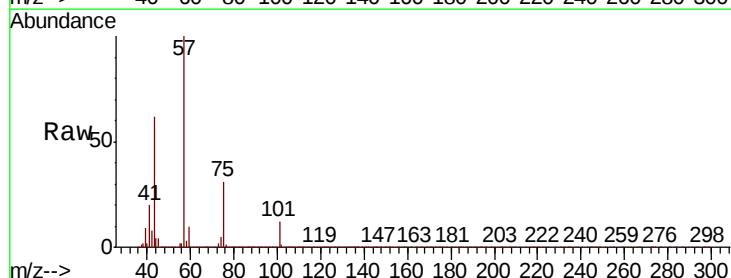
Acq: 10 Dec 2019 03:04

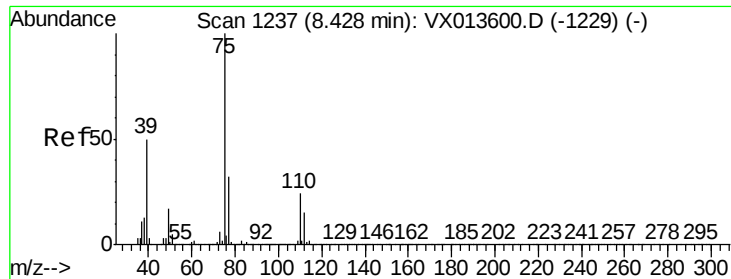
Tgt Ion: 43 Resp: 110303

Ion Ratio Lower Upper

43 100

58 5.8 32.1 48.1#



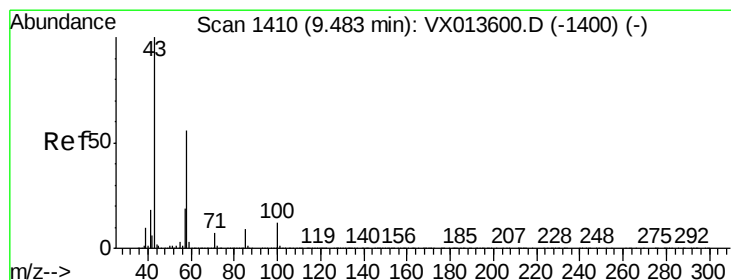
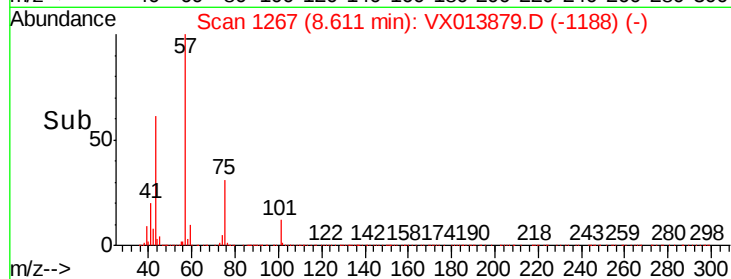
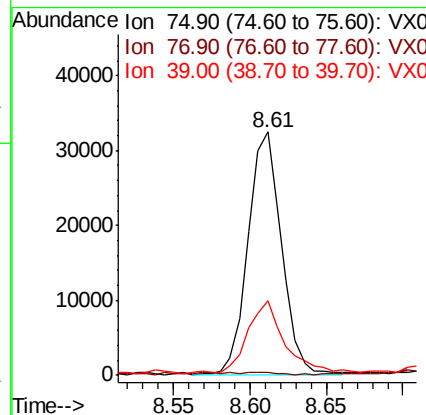
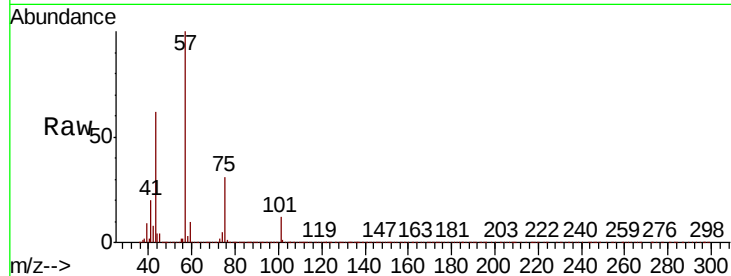


#54

cis-1,3-Dichloropropene
 Concen: 4.839 ug/l
 RT: 8.61 min Scan# 1267
 Delta R.T. 0.18 min
 Lab File: VX013879.D
 Acq: 10 Dec 2019 03:04

Instrument :
 MSVOA_X
 ClientSampleId :
 48-SPRUCE

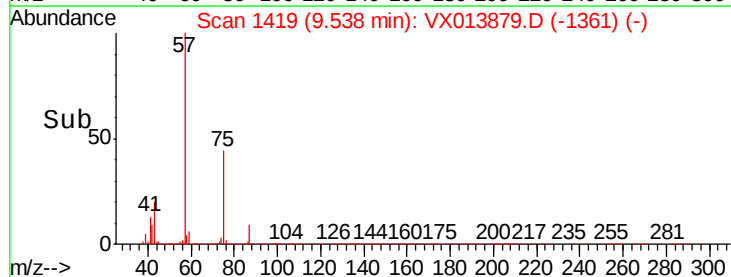
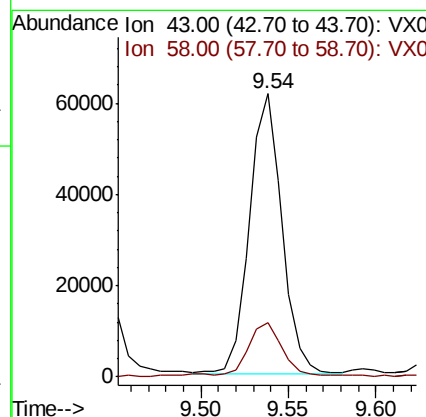
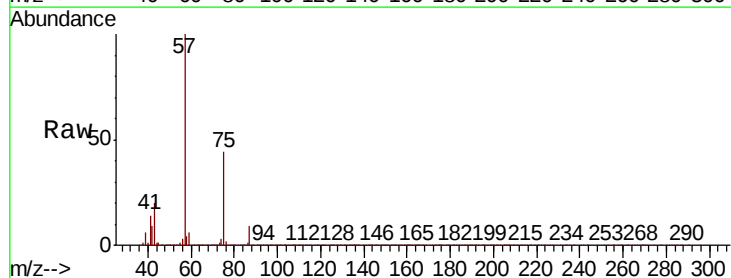
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.8	38.6#
39	29.6	39.9	59.9#

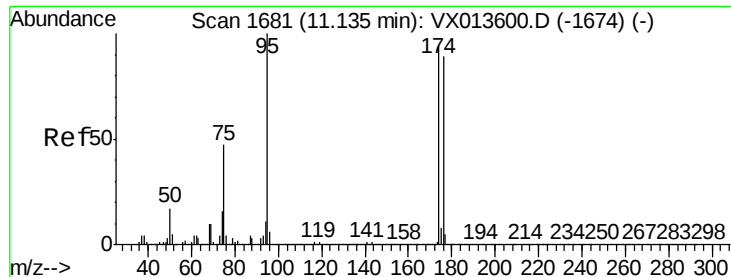


#59

2-Hexanone
 Concen: 10.507 ug/l
 RT: 9.54 min Scan# 1419
 Delta R.T. 0.05 min
 Lab File: VX013879.D
 Acq: 10 Dec 2019 03:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	20.8	28.1	84.4#





#62

4-Bromofluorobenzene

Concen: 46.200 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013879.D

Acq: 10 Dec 2019 03:04

Instrument :

MSVOA_X

ClientSampleId :

48-SPRUCE

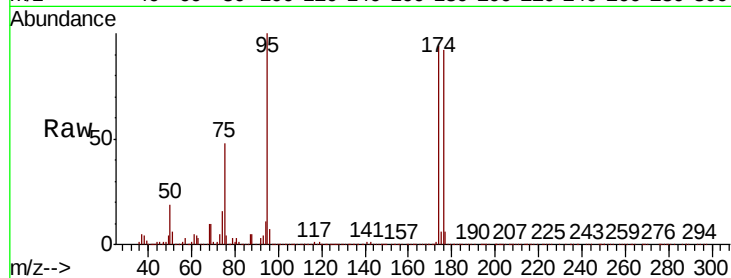
Tot Ion: 95 Resp: 367603

Ion Ratio Lower Upper

95 100

174 87.9 0.0 180.0

176 86.6 0.0 173.6

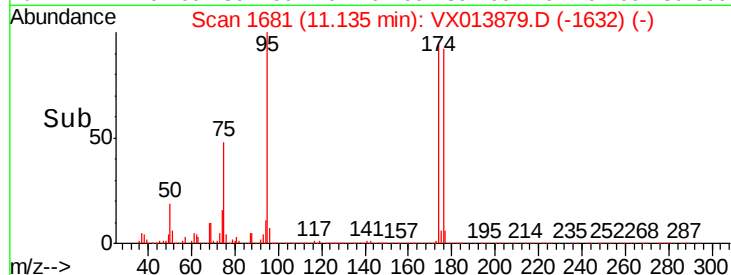


Abundance Ion 94.90 (94.60 to 95.60): VX013600.D (-1674) (-)

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

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

Time-->

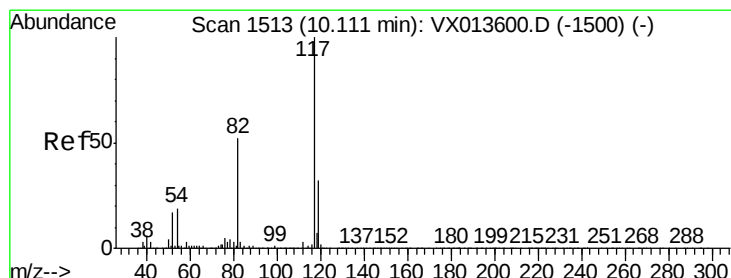


Abundance Ion 94.90 (94.60 to 95.60): VX013879.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX013879.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX013879.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013879.D

Acq: 10 Dec 2019 03:04

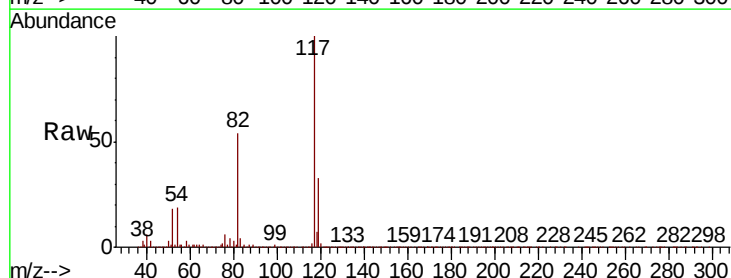
Tgt Ion: 117 Resp: 832783

Ion Ratio Lower Upper

117 100

82 53.5 41.8 62.8

119 33.1 25.8 38.8

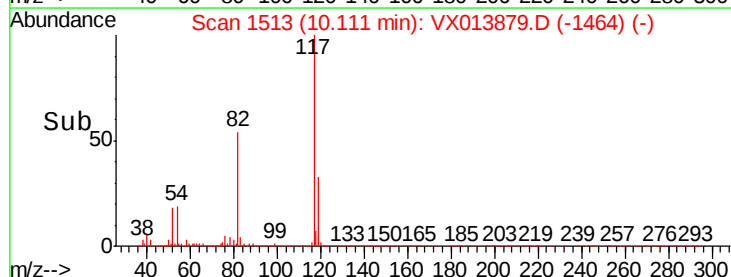


Abundance Ion 116.90 (116.60 to 117.60): VX013600.D (-1500) (-)

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

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

Time-->

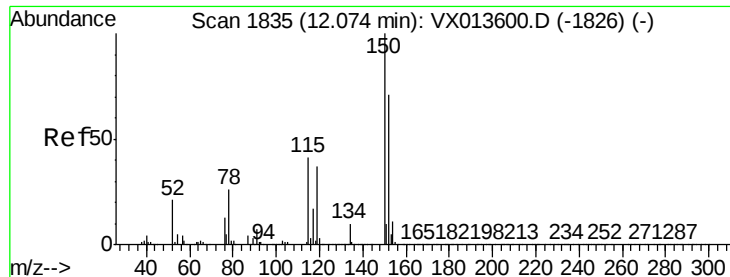


Abundance Ion 116.90 (116.60 to 117.60): VX013879.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX013879.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX013879.D (-1464) (-)

Time-->

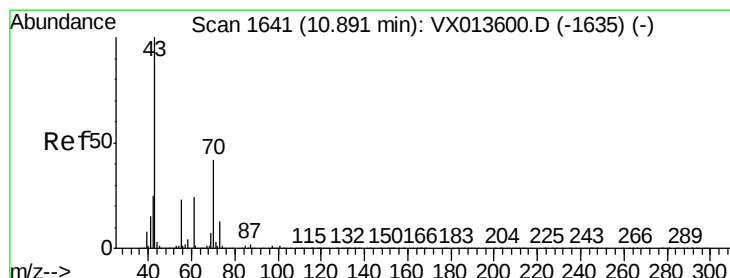
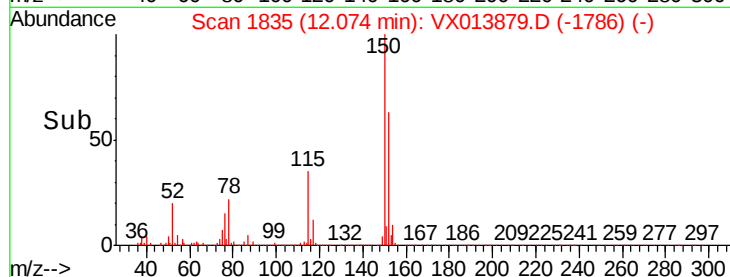
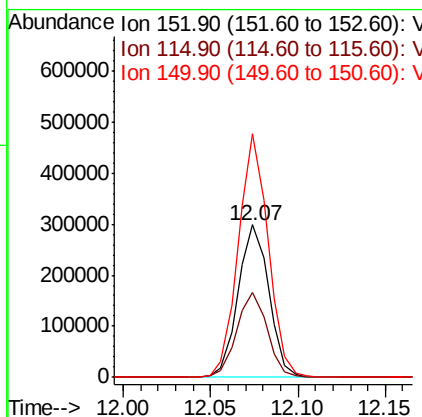
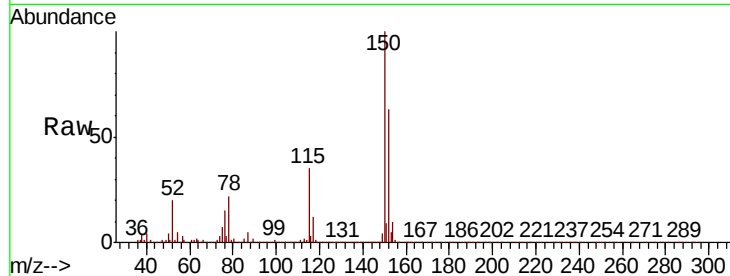


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013879.D
Acq: 10 Dec 2019 03:04

Instrument :
MSVOA_X
ClientSampleId :
48-SPRUCE

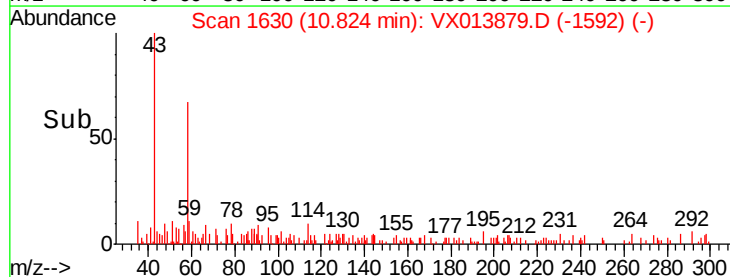
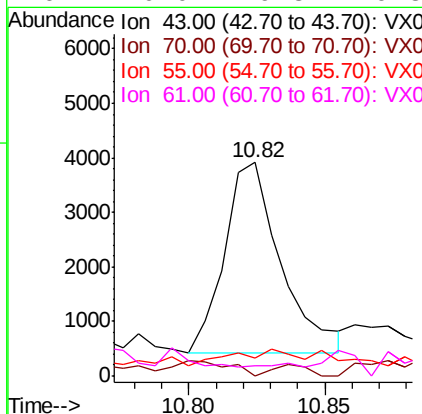
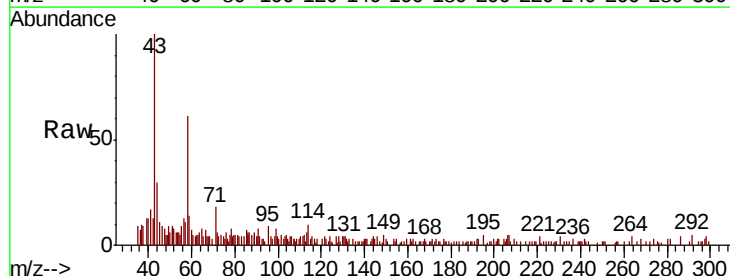
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.8	38.4	115.1
150	154.2	0.0	346.8

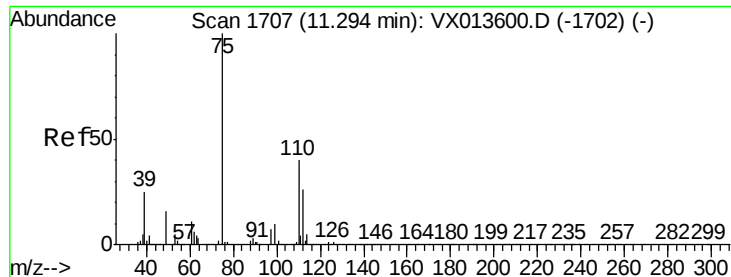


#74

N-ethyl acetate
Concen: 0.430 ug/l
RT: 10.82 min Scan# 1630
Delta R.T. -0.07 min
Lab File: VX013879.D
Acq: 10 Dec 2019 03:04

Tgt Ion	Ratio	Lower	Upper
43	100		
70	3.5	34.3	51.5#
55	9.1	18.5	27.7#
61	0.0	19.8	29.8#





#76

1,2,3-Trichloropropane

Concen: 21.625 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013879.D

Acq: 10 Dec 2019 03:04

Instrument :

MSVOA_X

ClientSampleId :

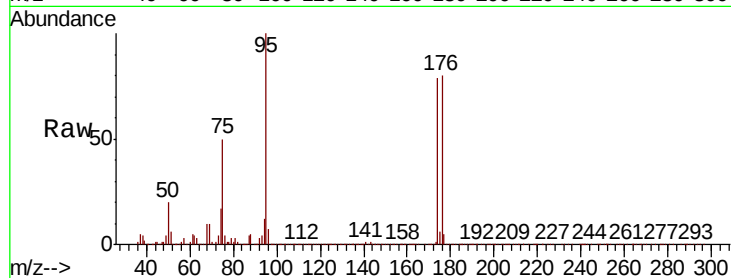
48-SPRUCE

Tot Ion: 75 Resp: 178207

Ion Ratio Lower Upper

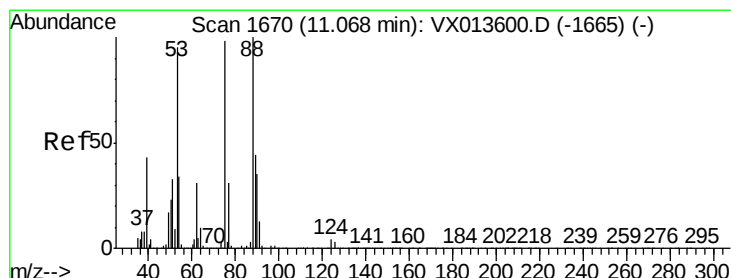
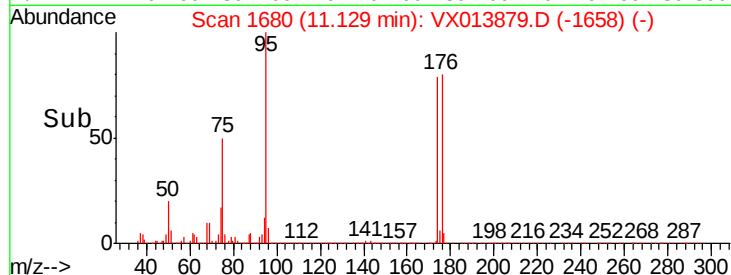
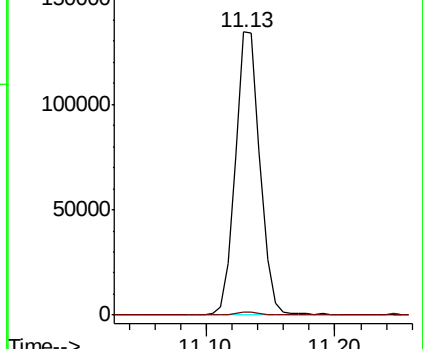
75 100

77 1.2 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: 59.163 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013879.D

Acq: 10 Dec 2019 03:04

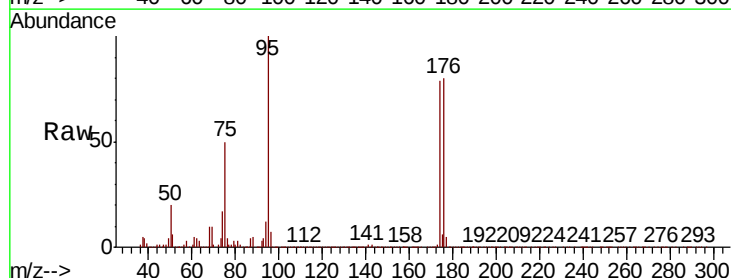
Tgt Ion: 75 Resp: 178207

Ion Ratio Lower Upper

75 100

53 0.4 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

