

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX090920\
 Data File : VX018331.D
 Acq On : 09 Sep 2020 18:54
 Operator : JC/SP
 Sample : L3942-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 N35868

Quant Time: Sep 10 07:06:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

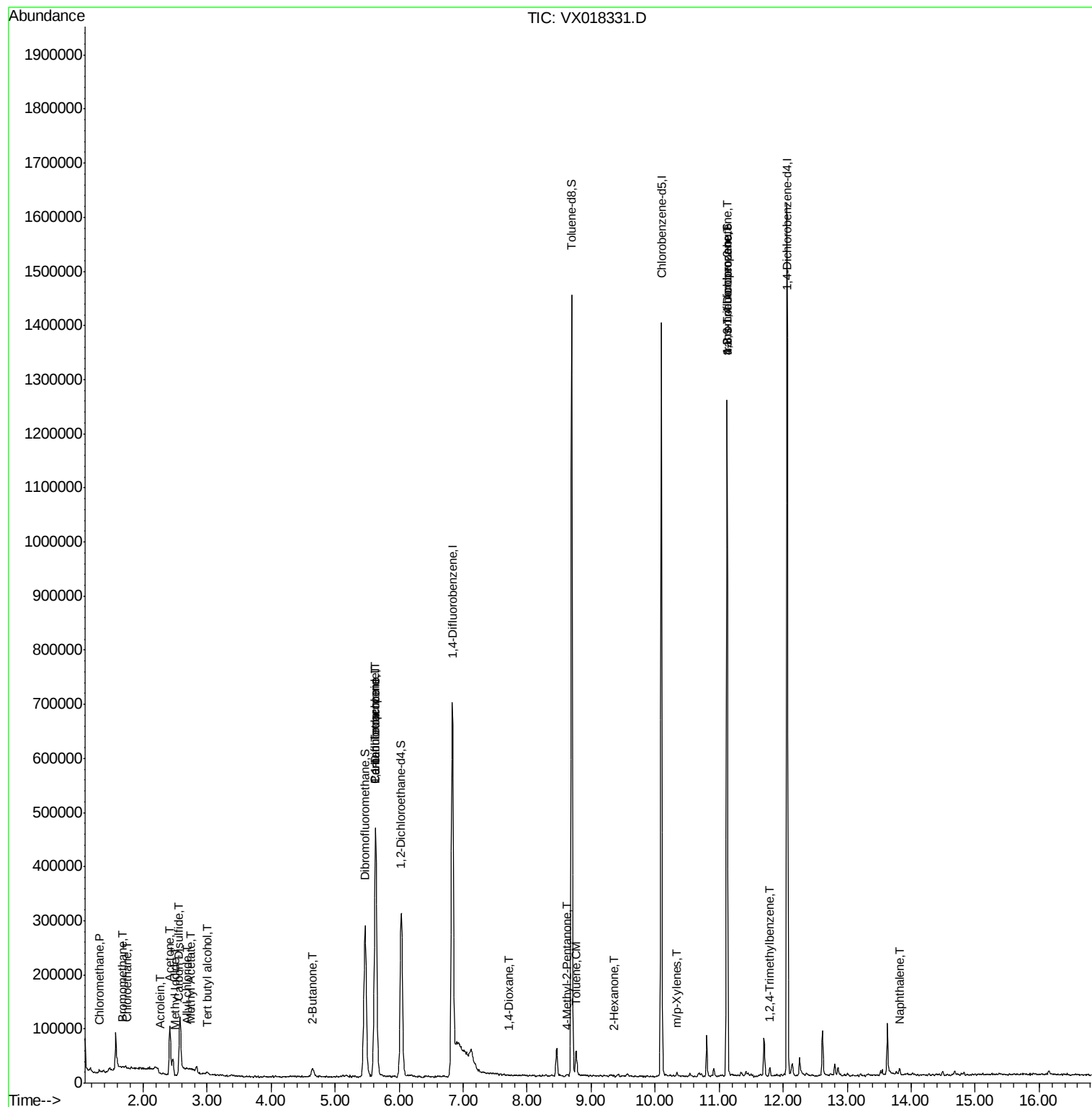
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	418724	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	671323	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	628653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	323340	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	307203	52.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.70%	
35) Dibromofluoromethane	5.46	113	241176	52.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.50%	
50) Toluene-d8	8.70	98	833673	48.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.92%	
62) 4-Bromofluorobenzene	11.12	95	310155	46.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.58%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	1271	0.236	ug/l	100
5) Bromomethane	1.67	94	966	0.374	ug/l	82
6) Chloroethane	1.75	64	1300	0.452	ug/l	98
10) Methyl Iodide	2.50	142	180	5.325	ug/l #	1
11) Tert butyl alcohol	3.00	59	3229	2.857	ug/l	95
13) Acrolein	2.28	56	507	1.082	ug/l	86
14) Allyl chloride	2.68	41	2039	0.277	ug/l #	77
16) Acetone	2.42	43	96119	42.435	ug/l	93
17) Carbon Disulfide	2.56	76	19126	1.546	ug/l #	94
18) Methyl Acetate	2.75	43	1158	0.212	ug/l #	57
25) 2-Butanone	4.65	43	7779	2.090	ug/l	99
36) 1,1-Dichloropropene	5.63	75	32671	5.276	ug/l #	53
38) Carbon Tetrachloride	5.63	117	42883	6.145	ug/l #	20
49) 1,4-Dioxane	7.71	88	75	0.716	ug/l #	2
51) 4-Methyl-2-Pentanone	8.62	43	2112	0.294	ug/l	96
52) Toluene	8.77	92	16073	1.393	ug/l	91
59) 2-Hexanone	9.36	43	1310	0.240	ug/l	100
68) m/p-Xylenes	10.34	106	1727	0.217	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	161291	22.424	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	161291	60.563	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.79	105	6430	0.359	ug/l	96
95) Naphthalene	13.82	128	6706	0.314	ug/l #	88

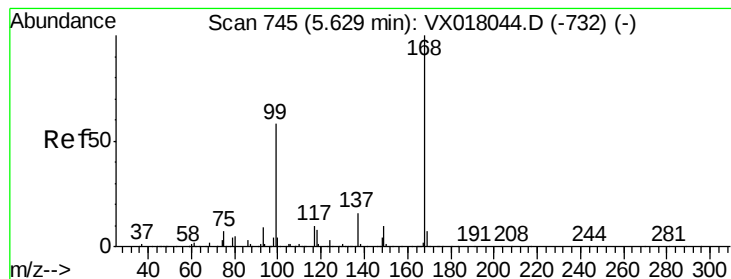
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

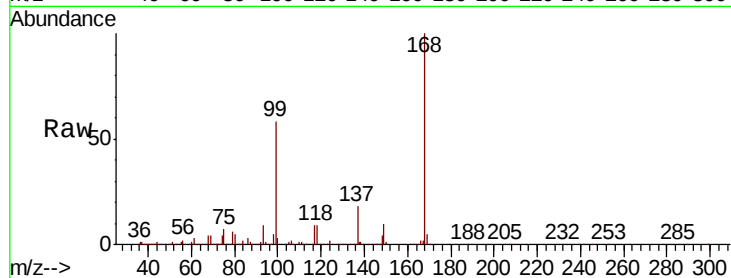
N35868

Tot Ion:168 Resp: 418724

Ion Ratio Lower Upper

168 100

99 57.6 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

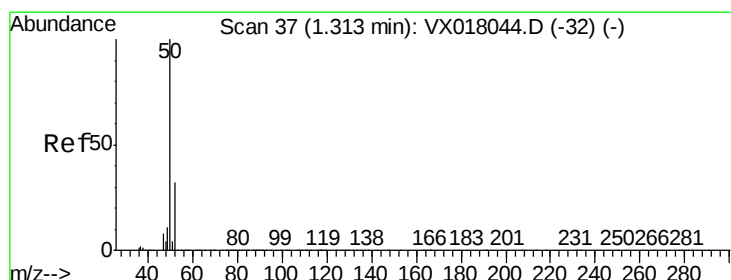
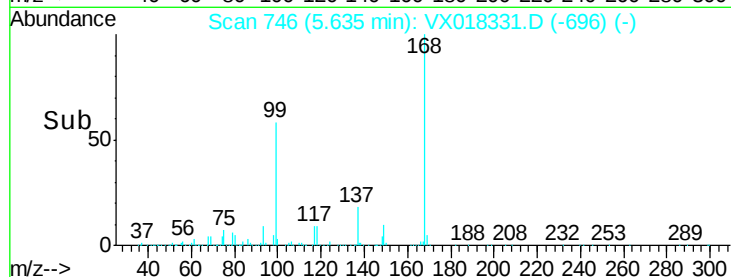
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.236 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX018331.D

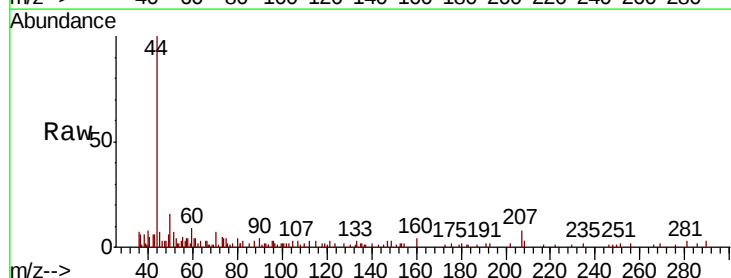
Acq: 09 Sep 2020 18:54

Tgt Ion: 50 Resp: 1271

Ion Ratio Lower Upper

50 100

52 31.8 25.4 38.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

800

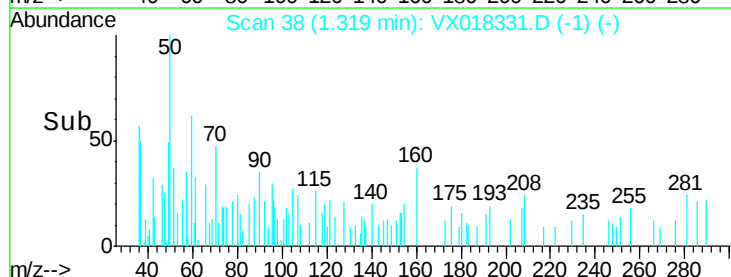
600

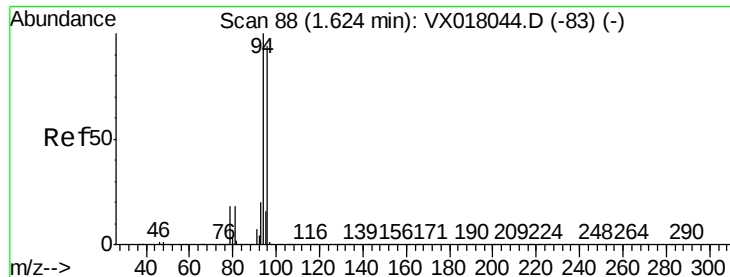
400

200

0

Time-->





#5

Bromomethane

Concen: 0.374 ug/l

RT: 1.67 min Scan# 95

Delta R.T. 0.04 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

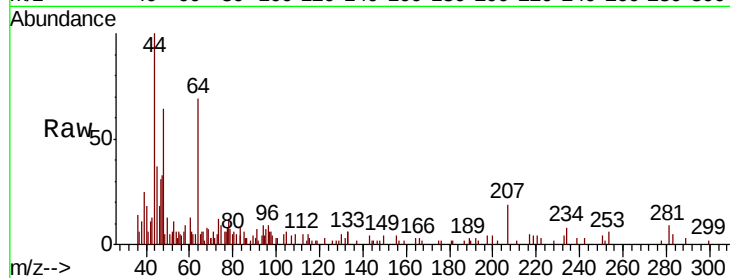
N35868

Tot Ion: 94 Resp: 966

Ion Ratio Lower Upper

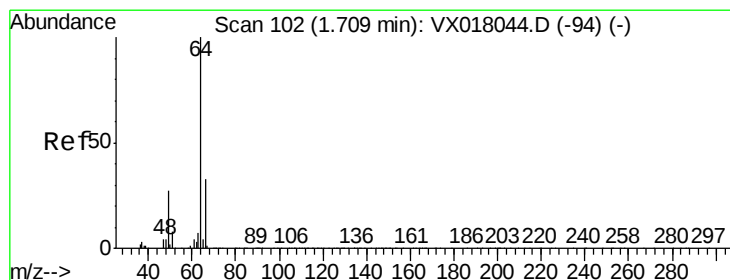
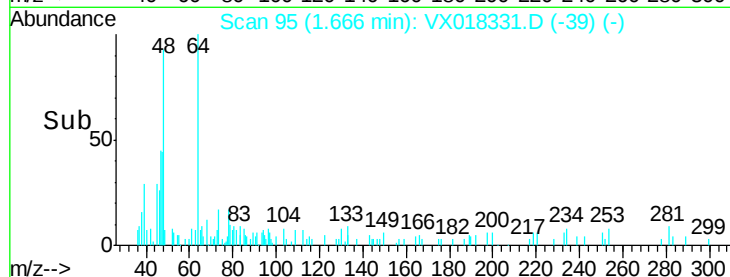
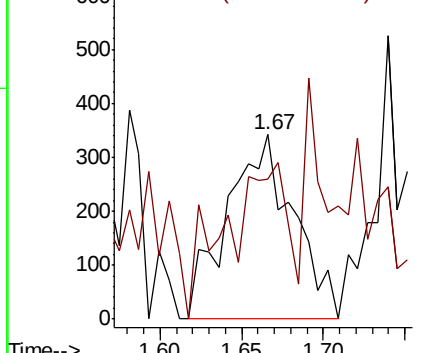
94 100

96 75.7 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.452 ug/l

RT: 1.75 min Scan# 109

Delta R.T. 0.04 min

Lab File: VX018331.D

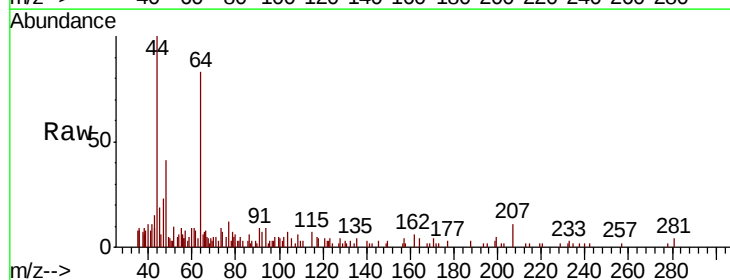
Acq: 09 Sep 2020 18:54

Tgt Ion: 64 Resp: 1300

Ion Ratio Lower Upper

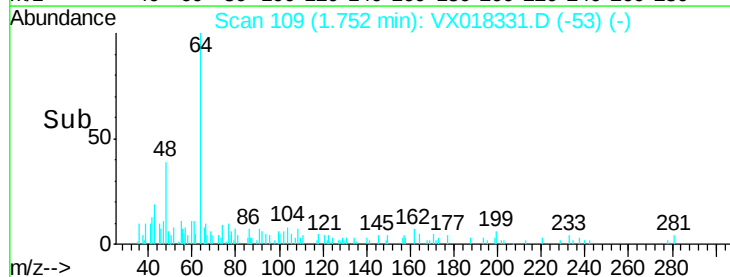
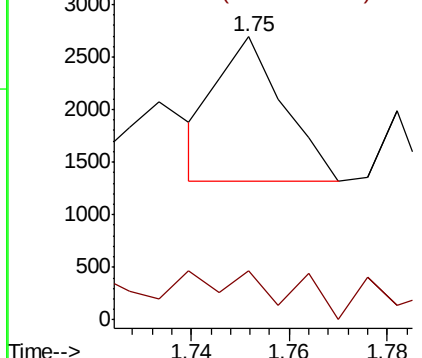
64 100

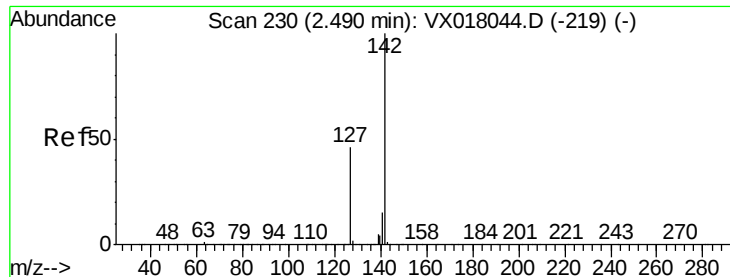
66 34.1 26.6 39.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

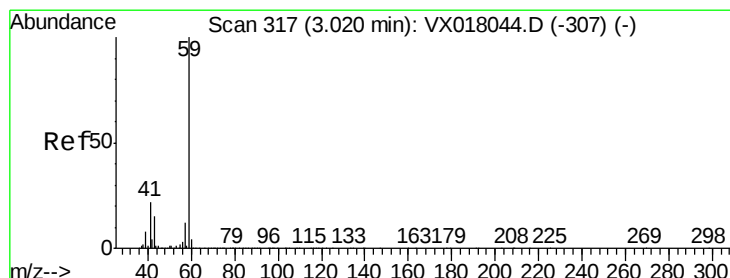
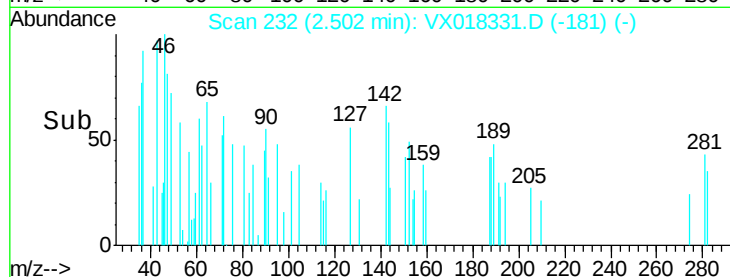
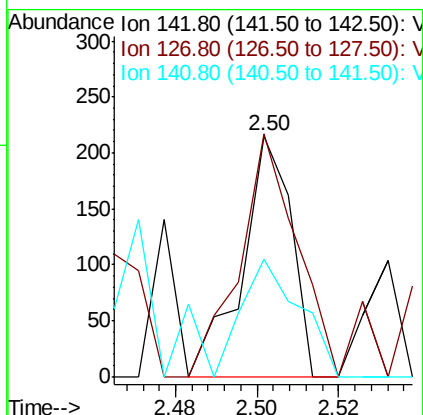
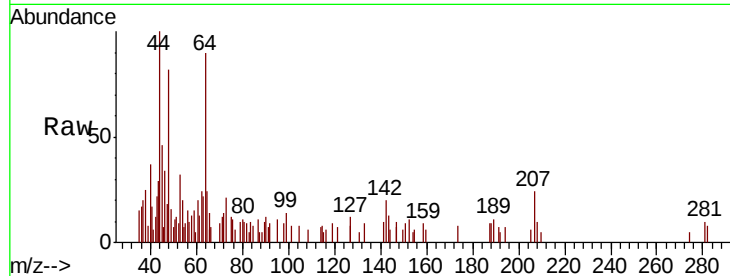




#10
Methyl Iodide
Concen: 5.325 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX018331.D
Acq: 09 Sep 2020 18:54

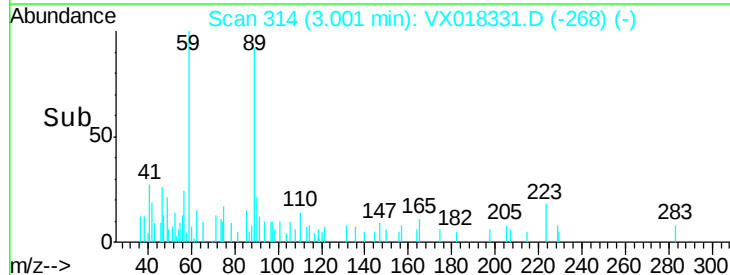
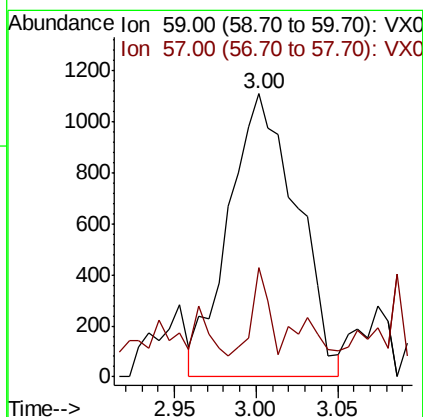
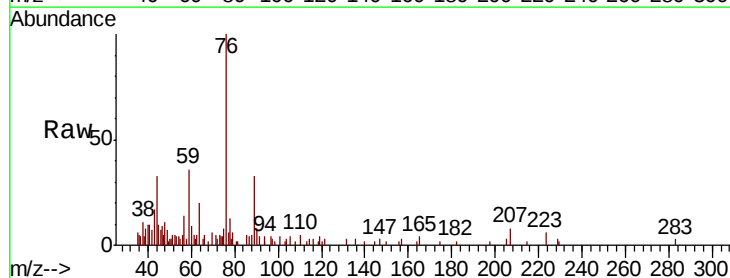
Instrument :
MSVOA_X
ClientSampled :
N35868

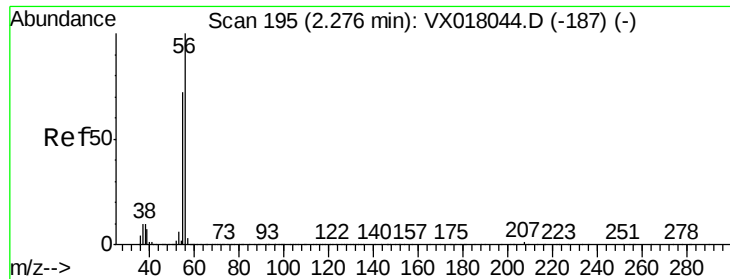
Tot Ion:142 Resp: 180
Ion Ratio Lower Upper
142 100
127 117.8 37.0 55.6#
141 58.3 11.5 17.3#



#11
Tert butyl alcohol
Concen: 2.857 ug/l
RT: 3.00 min Scan# 314
Delta R.T. -0.02 min
Lab File: VX018331.D
Acq: 09 Sep 2020 18:54

Tgt Ion: 59 Resp: 3229
Ion Ratio Lower Upper
59 100
57 9.3 8.9 13.3





#13

Acrolein

Concen: 1.082 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

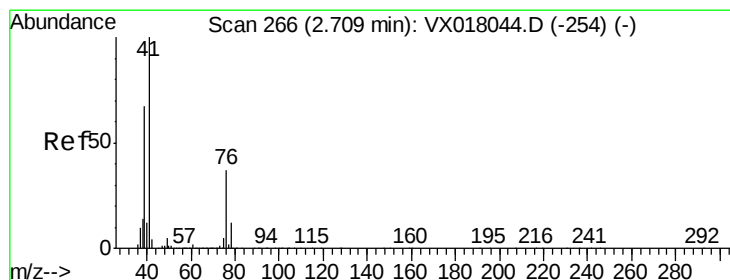
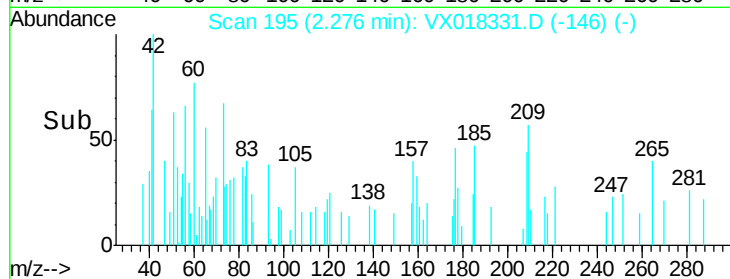
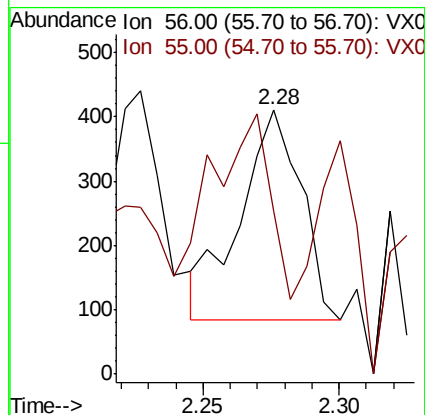
N35868

Tot Ion: 56 Resp: 507

Ion Ratio Lower Upper

56 100

55 82.6 57.0 85.6



#14

Allyl chloride

Concen: 0.277 ug/l

RT: 2.68 min Scan# 262

Delta R.T. -0.02 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

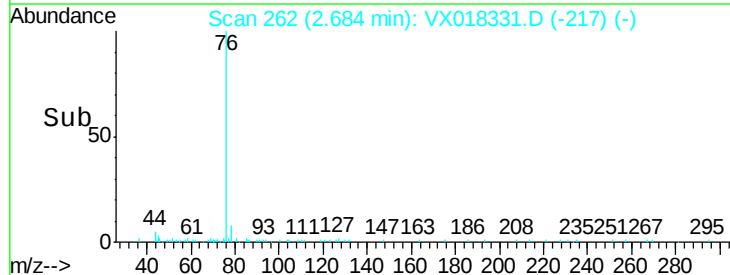
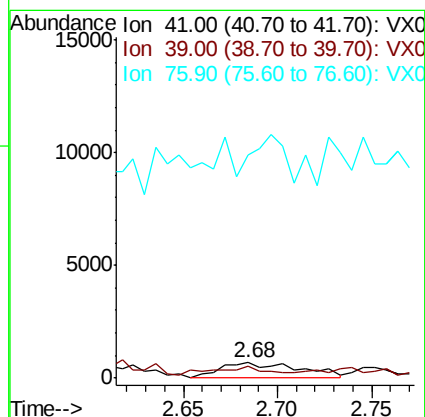
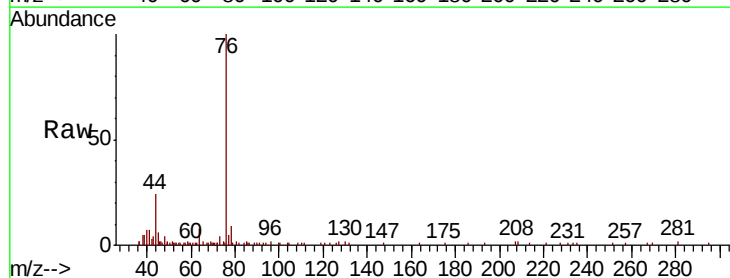
Tgt Ion: 41 Resp: 2039

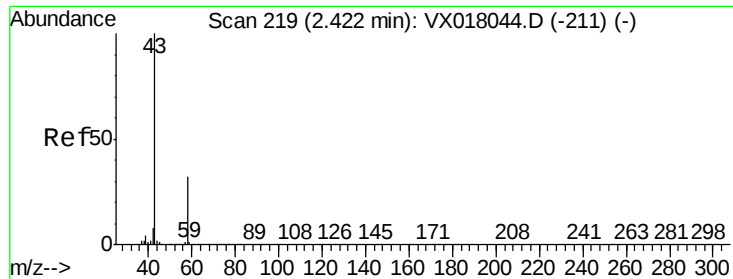
Ion Ratio Lower Upper

41 100

39 59.8 50.6 76.0

76 0.0 26.2 39.2#





#16

Acetone

Concen: 42.435 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

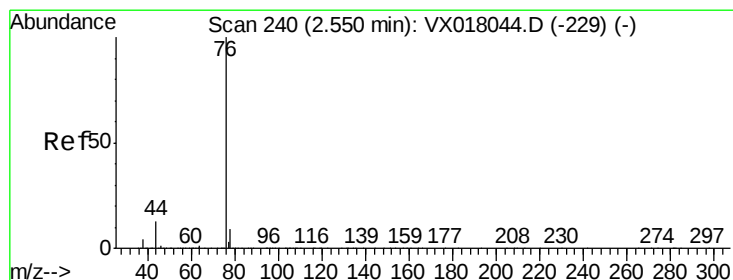
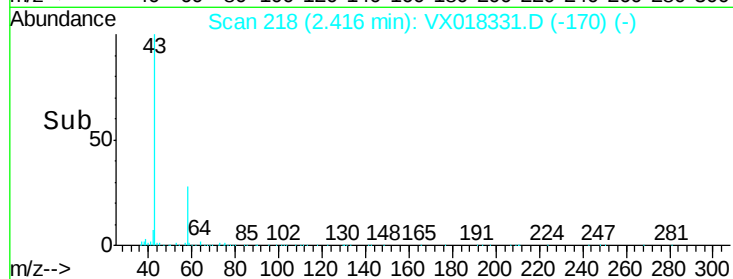
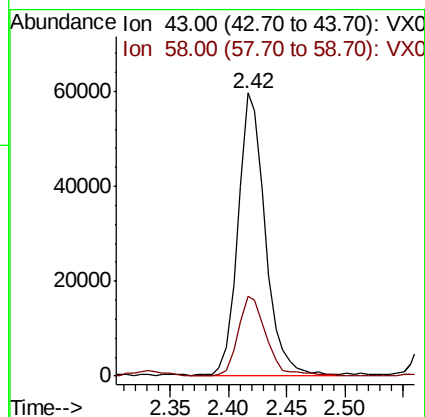
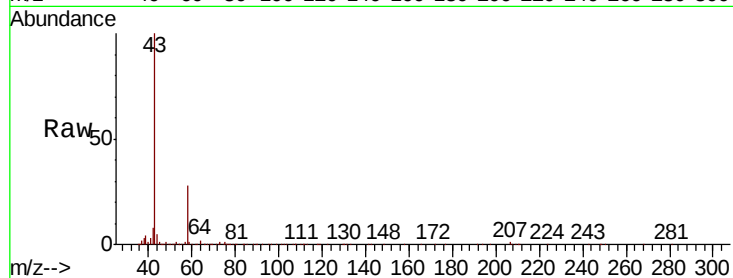
N35868

Tot Ion: 43 Resp: 96119

Ion Ratio Lower Upper

43 100

58 27.9 25.5 38.3



#17

Carbon Disulfide

Concen: 1.546 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018331.D

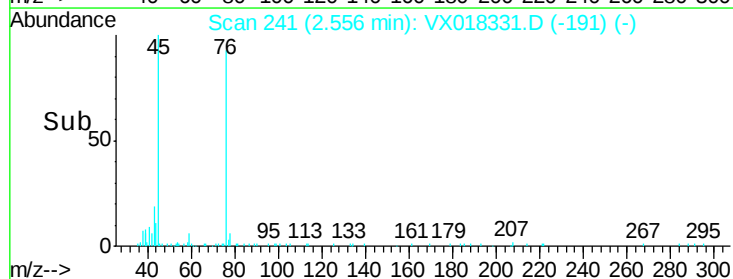
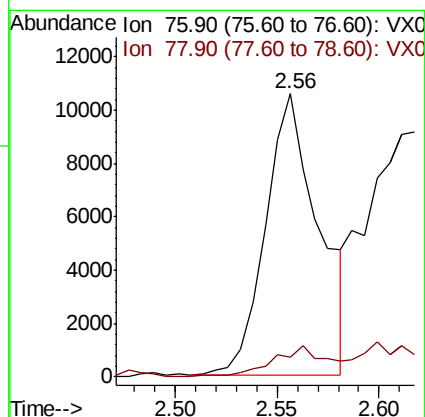
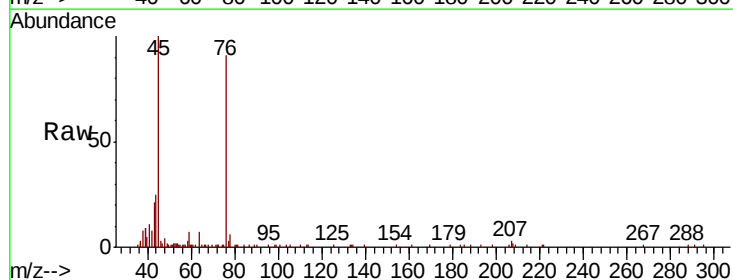
Acq: 09 Sep 2020 18:54

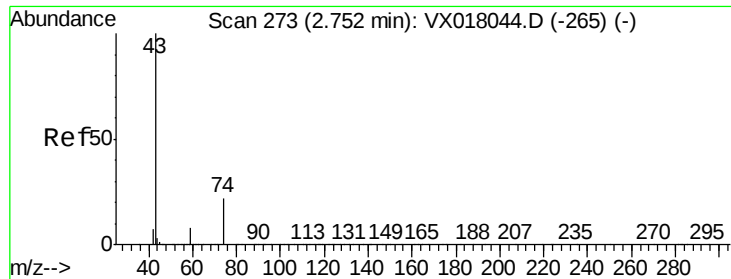
Tgt Ion: 76 Resp: 19126

Ion Ratio Lower Upper

76 100

78 6.9 7.4 11.0#

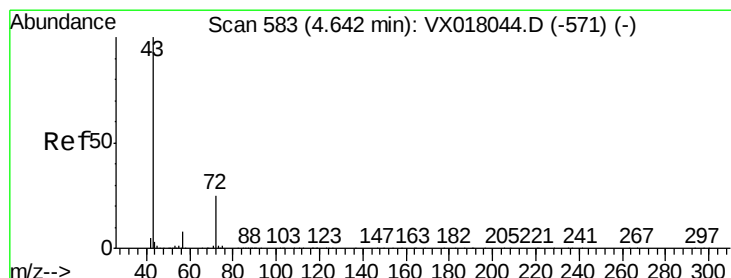
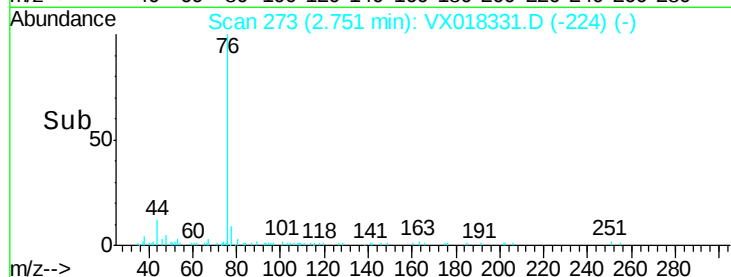
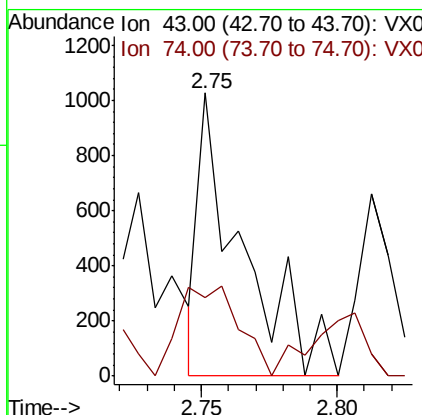
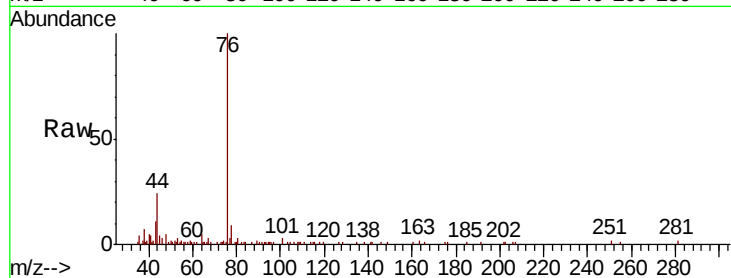




#18
Methyl Acetate
Concen: 0.212 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018331.D
Acq: 09 Sep 2020 18:54

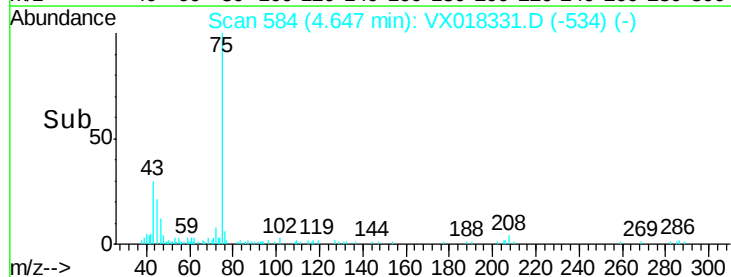
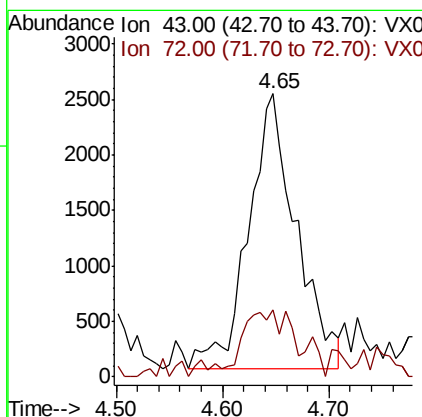
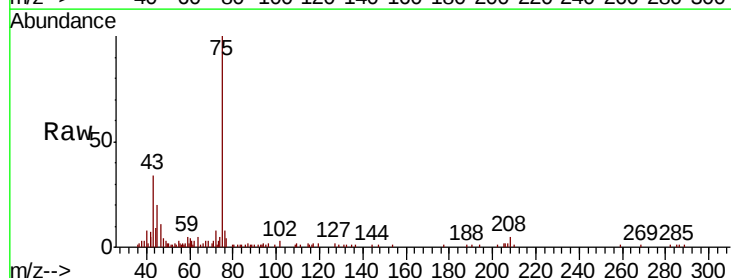
Instrument :
MSVOA_X
ClientSampled :
N35868

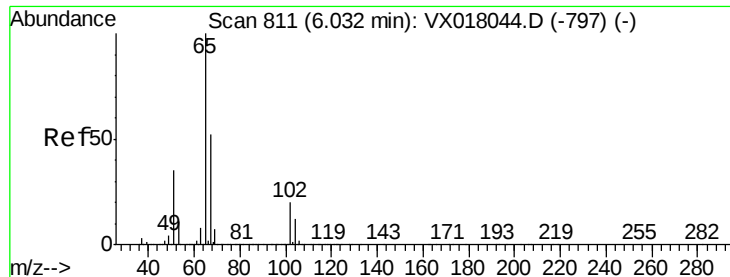
Tot Ion: 43 Resp: 1158
Ion Ratio Lower Upper
43 100
74 43.7 18.2 27.4#



#25
2-Butanone
Concen: 2.090 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018331.D
Acq: 09 Sep 2020 18:54

Tgt Ion: 43 Resp: 7779
Ion Ratio Lower Upper
43 100
72 24.3 19.8 29.6





#33

1,2-Dichloroethane-d4

Concen: 52.848 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampled :

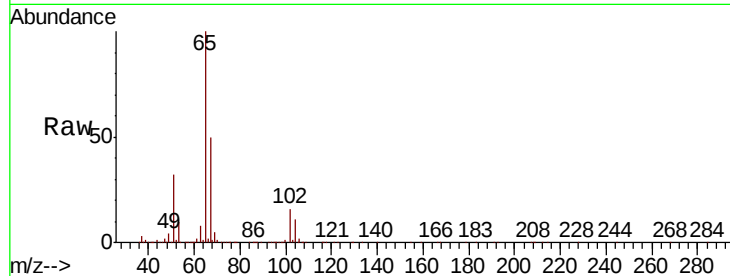
N35868

Tot Ion: 65 Resp: 307203

Ion Ratio Lower Upper

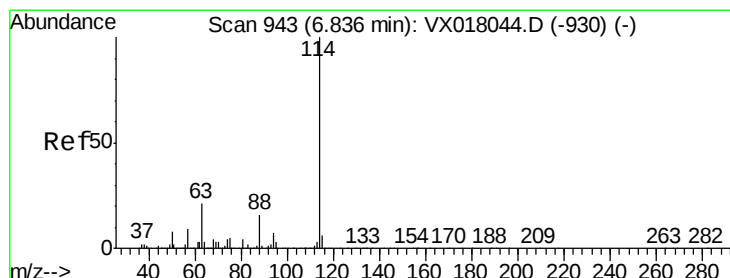
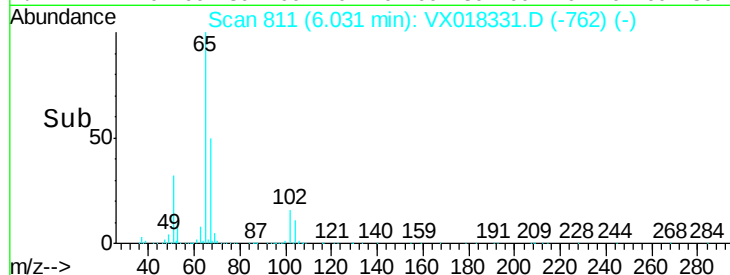
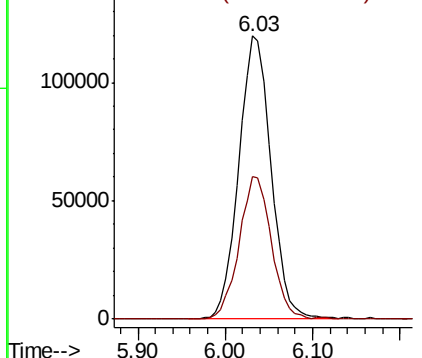
65 100

67 49.9 0.0 105.8



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: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

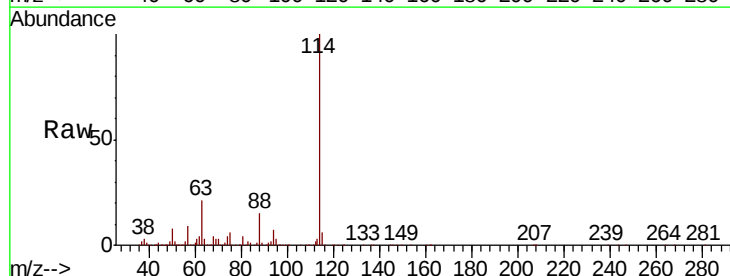
Tgt Ion: 114 Resp: 671323

Ion Ratio Lower Upper

114 100

63 20.5 0.0 42.6

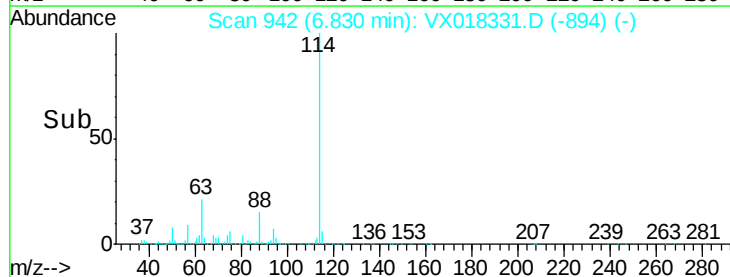
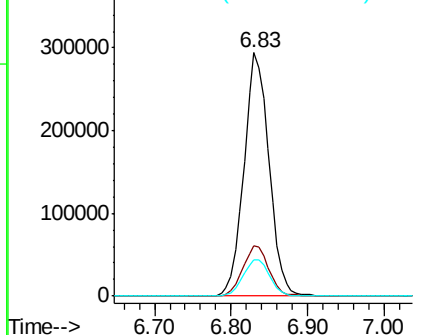
88 14.9 0.0 31.8

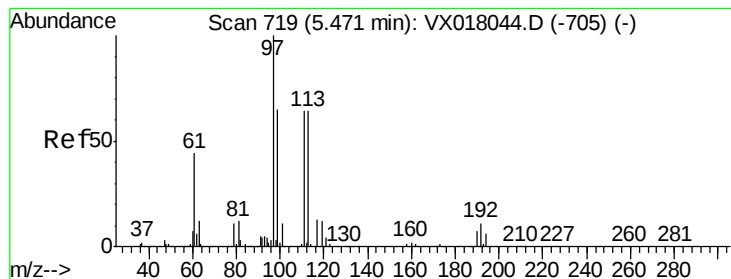


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 52.750 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

N35868

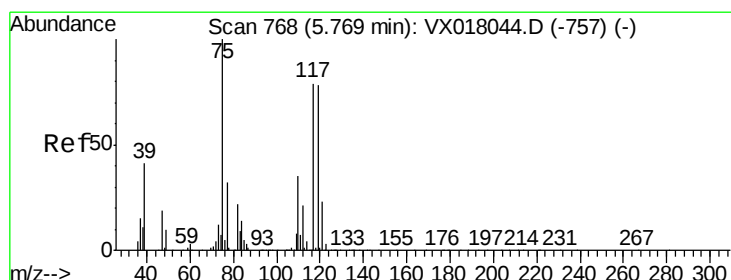
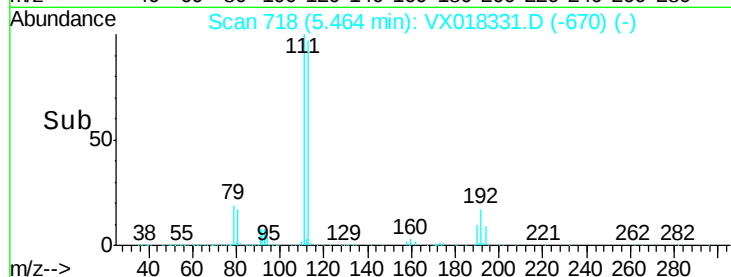
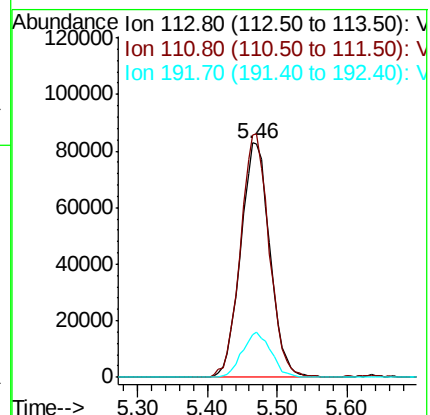
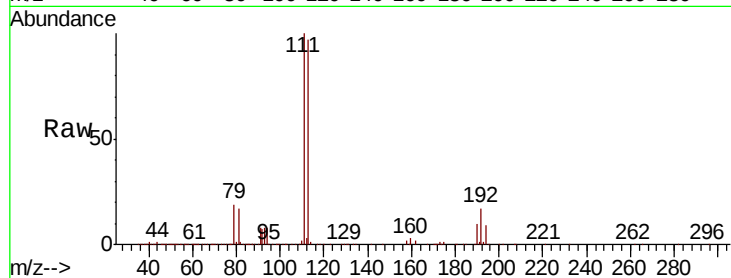
Tot Ion:113 Resp: 241176

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

192 19.0 15.8 23.8



#36

1,1-Dichloropropene

Concen: 5.276 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

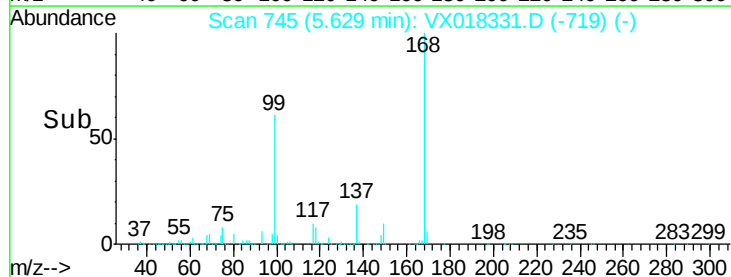
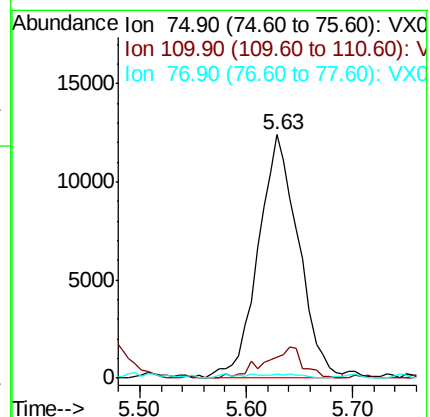
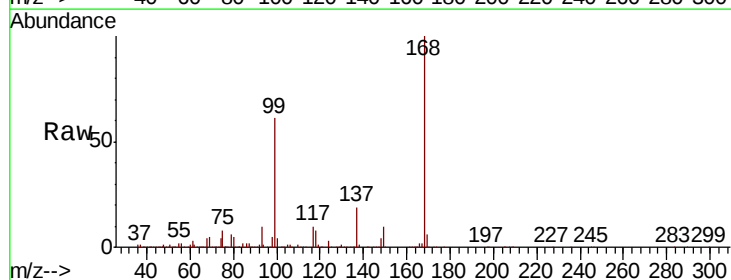
Tgt Ion: 75 Resp: 32671

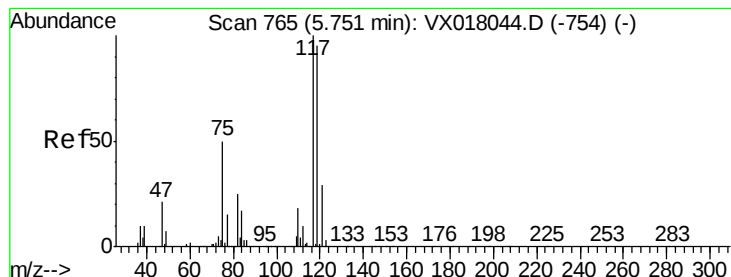
Ion Ratio Lower Upper

75 100

110 12.1 18.0 54.0#

77 1.1 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 6.145 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

N35868

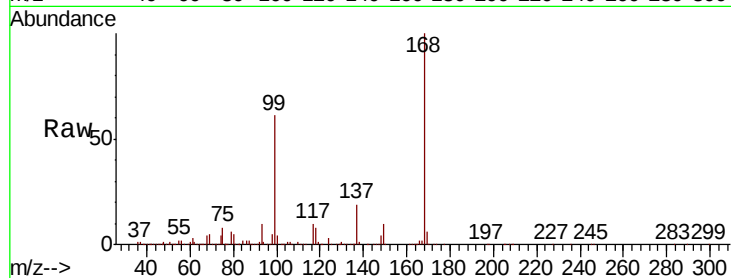
Tot Ion:117 Resp: 42883

Ion Ratio Lower Upper

117 100

119 8.5 75.8 113.6#

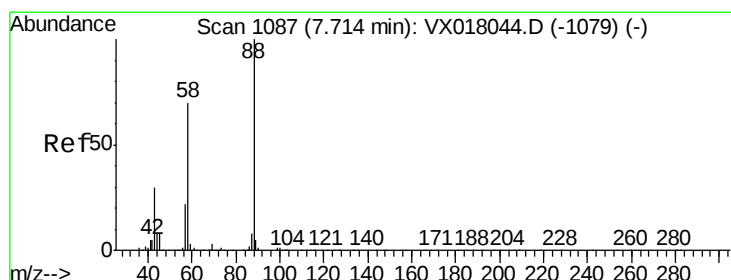
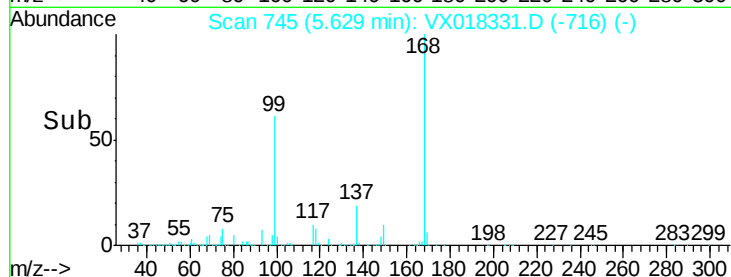
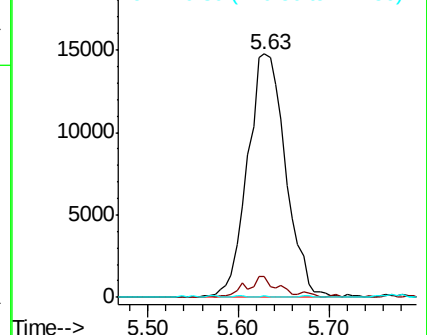
121 0.7 23.4 35.0#



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



#49

1,4-Dioxane

Concen: 0.716 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

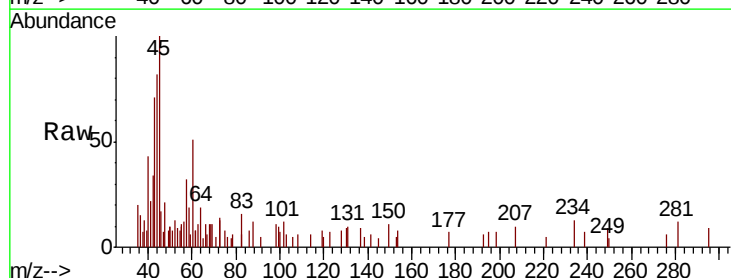
Tgt Ion: 88 Resp: 75

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

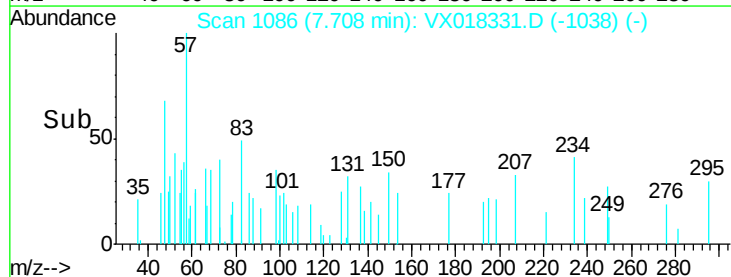
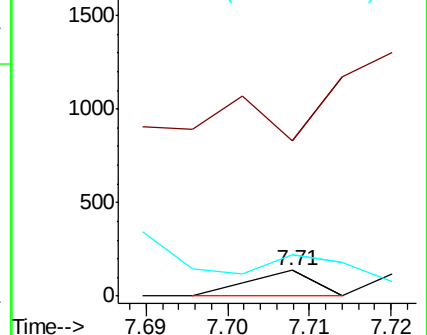
58 166.7 56.4 84.6#

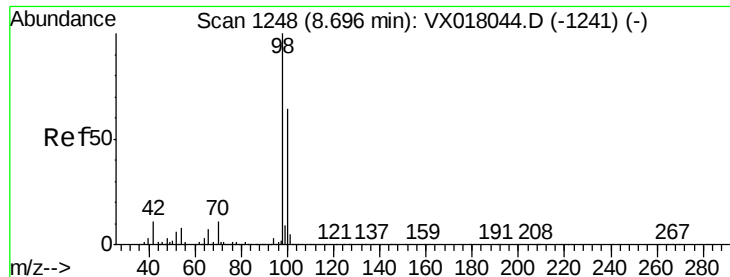


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.957 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampled :

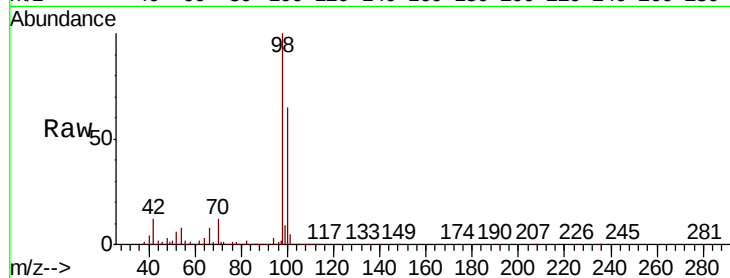
N35868

Tot Ion: 98 Resp: 833673

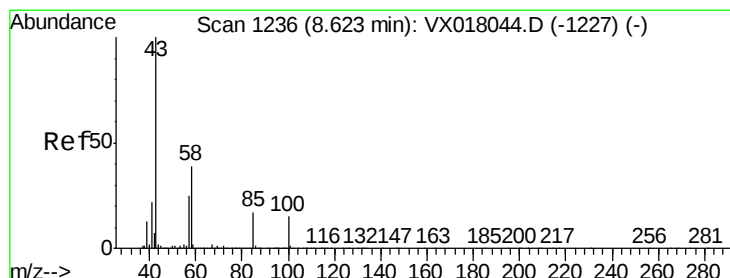
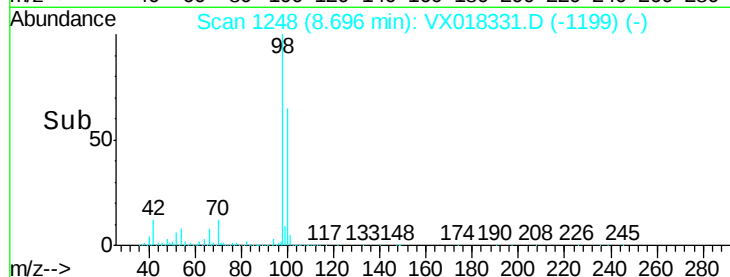
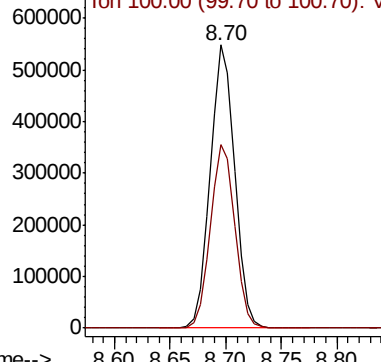
Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.294 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX018331.D

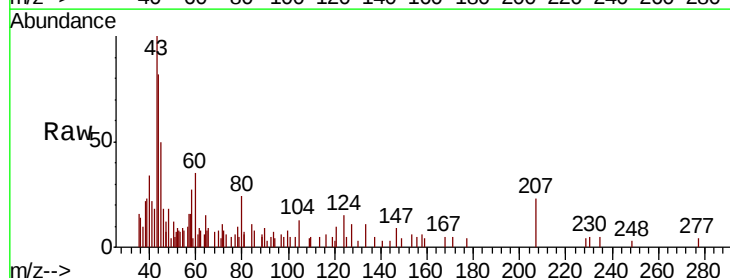
Acq: 09 Sep 2020 18:54

Tgt Ion: 43 Resp: 2112

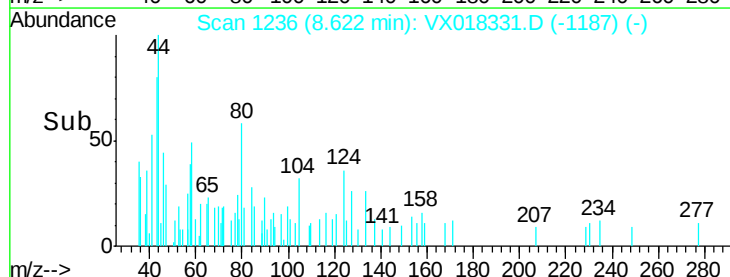
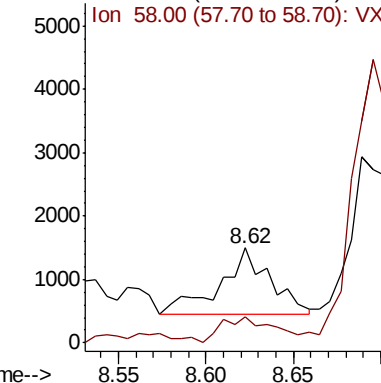
Ion Ratio Lower Upper

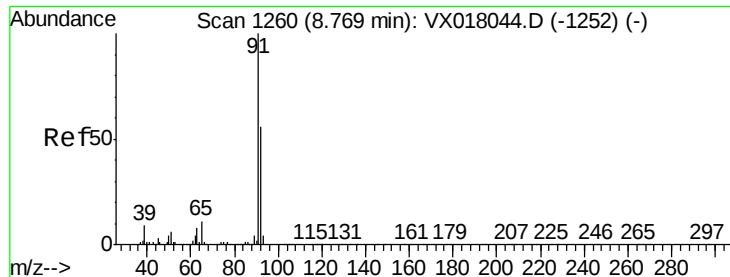
43 100

58 40.6 30.7 46.1



Abundance Ion 43.00 (42.70 to 43.70): VX0





#52

Toluene

Concen: 1.393 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampled :

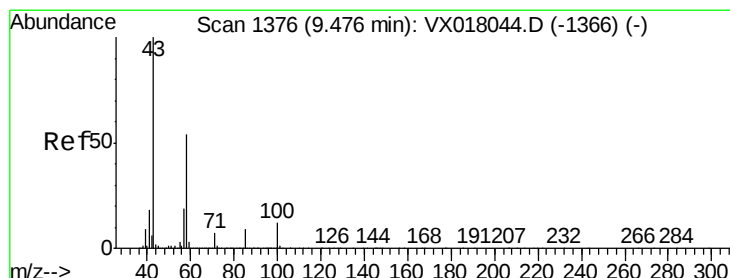
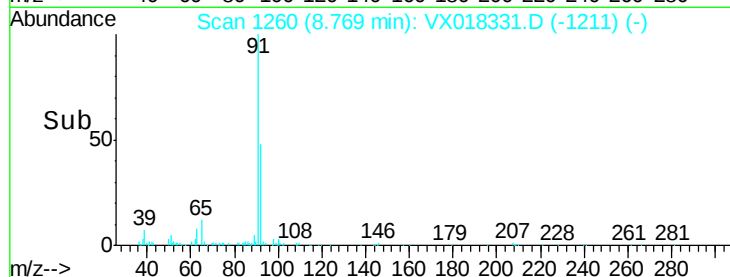
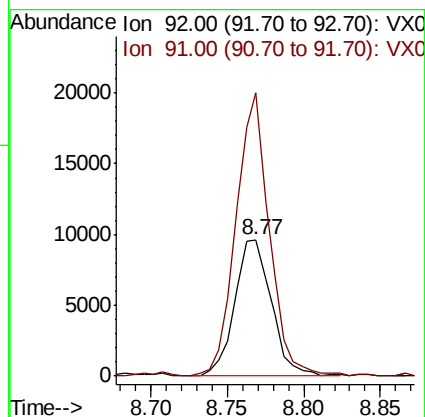
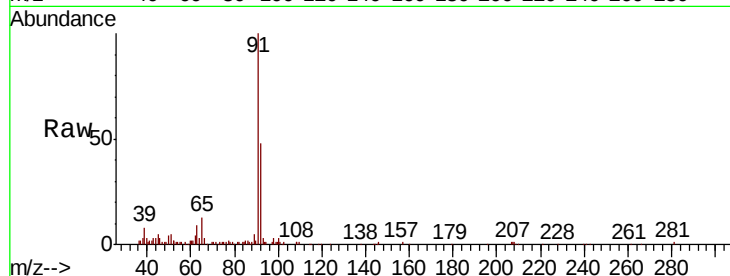
N35868

Tot Ion: 92 Resp: 16073

Ion Ratio Lower Upper

92 100

91 187.7 140.3 210.5



#59

2-Hexanone

Concen: 0.240 ug/l

RT: 9.36 min Scan# 1357

Delta R.T. -0.12 min

Lab File: VX018331.D

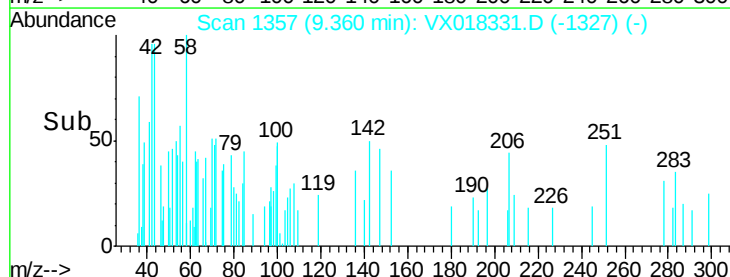
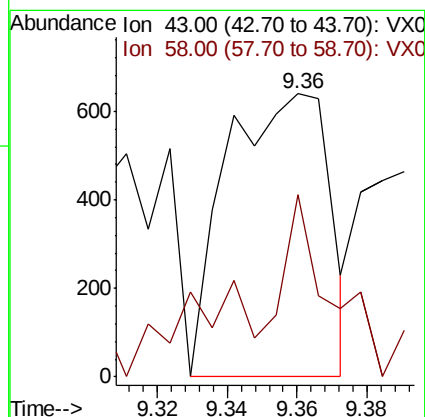
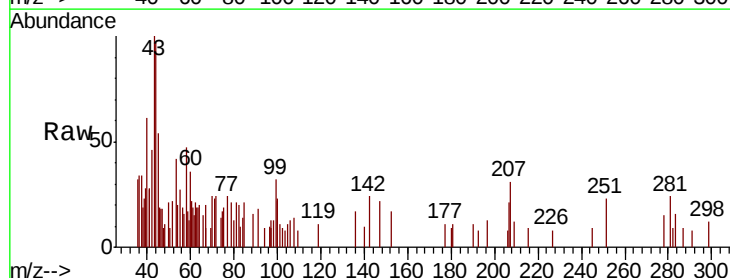
Acq: 09 Sep 2020 18:54

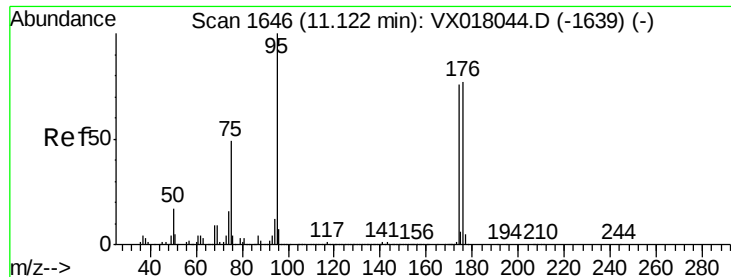
Tgt Ion: 43 Resp: 1310

Ion Ratio Lower Upper

43 100

58 52.7 26.6 79.7





#62

4-Bromofluorobenzene

Concen: 46.293 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

N35868

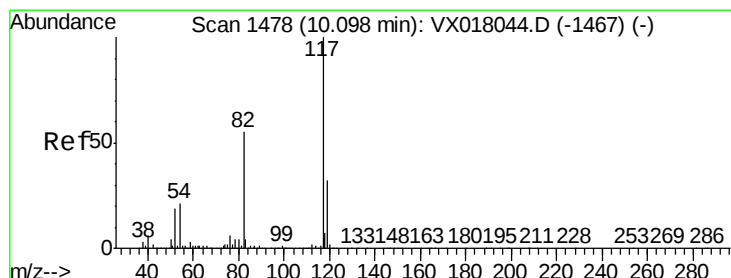
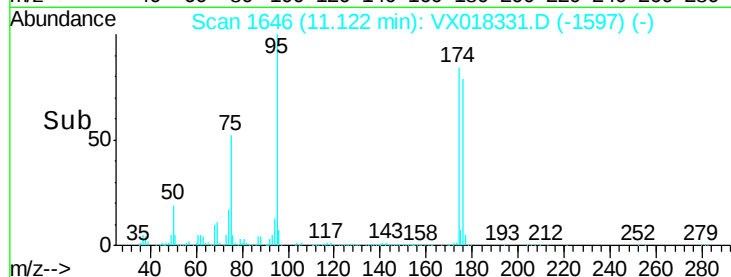
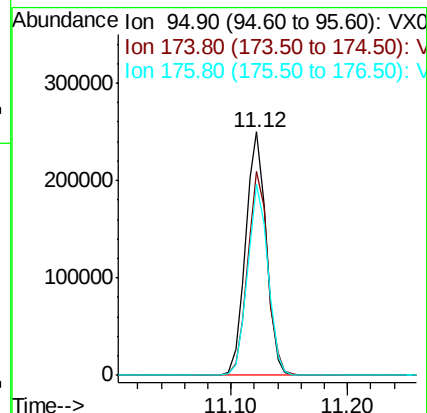
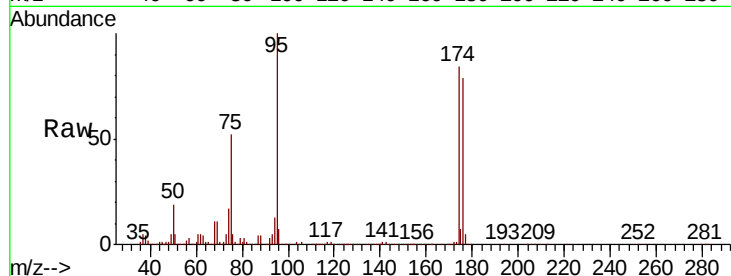
Tot Ion: 95 Resp: 310155

Ion Ratio Lower Upper

95 100

174 82.2 0.0 160.2

176 77.8 0.0 155.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

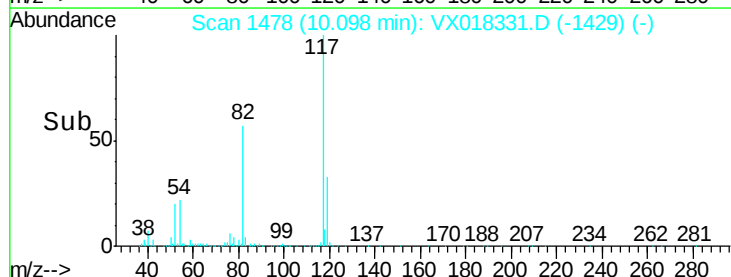
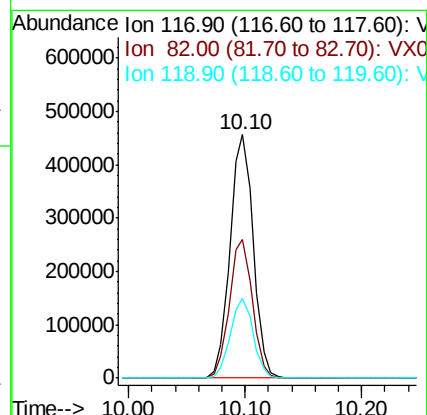
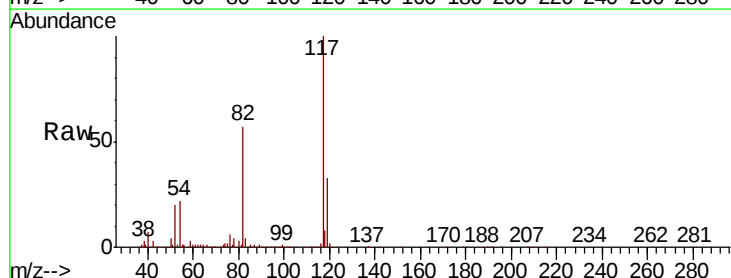
Tgt Ion: 117 Resp: 628653

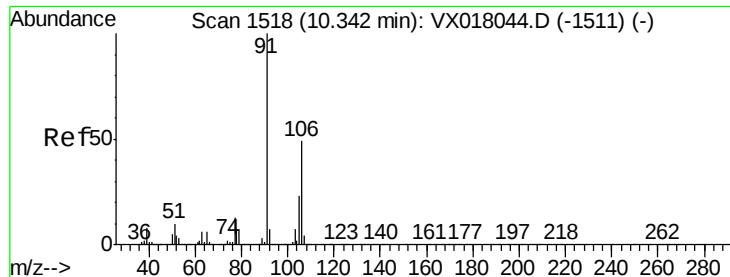
Ion Ratio Lower Upper

117 100

82 57.2 44.2 66.2

119 32.8 25.7 38.5





#68

m/p-Xvlenes

Concen: 0.217 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

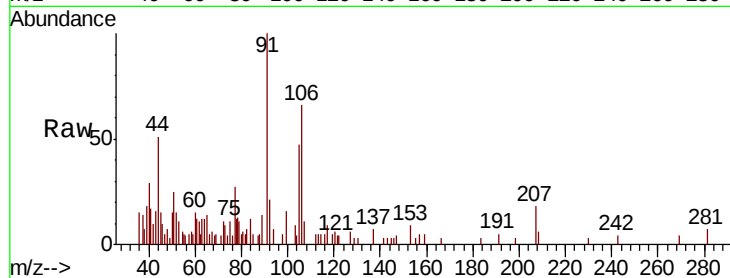
N35868

Tot Ion:106 Resp: 1727

Ion Ratio Lower Upper

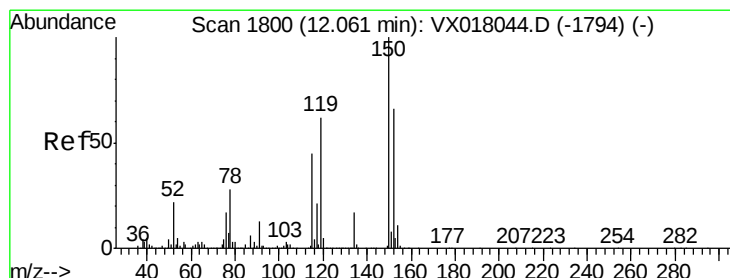
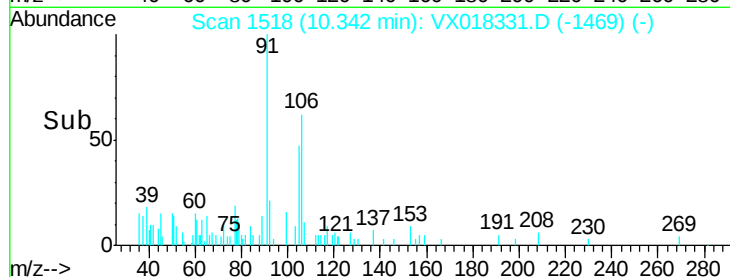
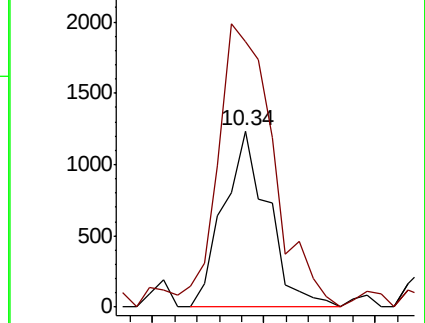
106 100

91 204.5 162.2 243.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

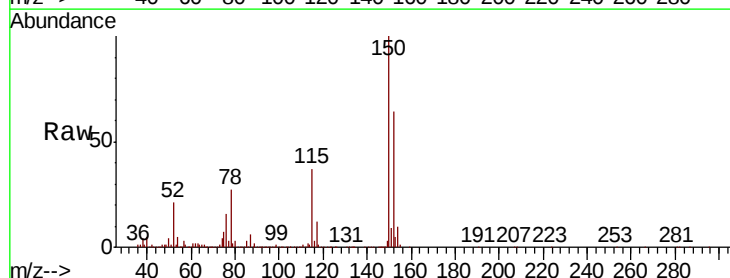
Tgt Ion:152 Resp: 323340

Ion Ratio Lower Upper

152 100

115 59.4 41.5 124.5

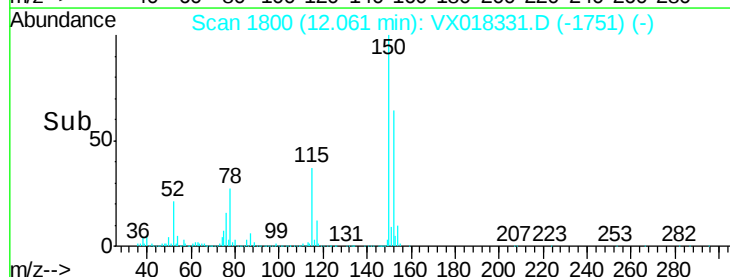
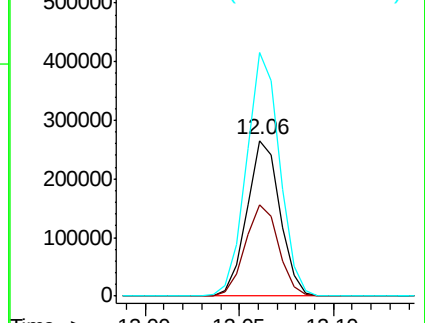
150 157.2 0.0 343.8

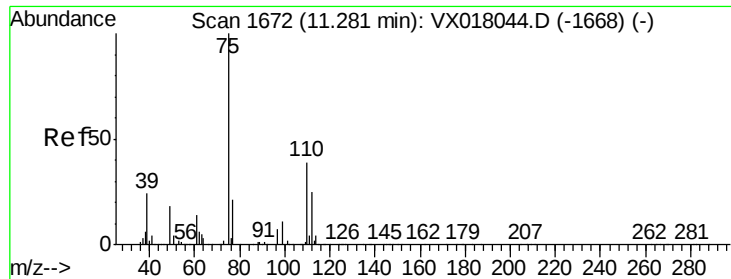


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.424 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampleId :

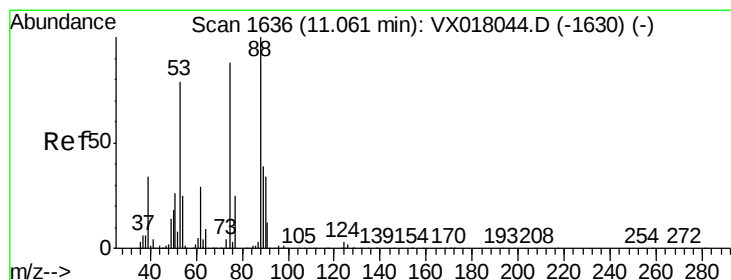
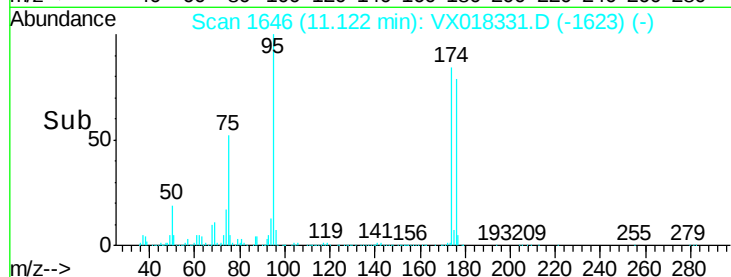
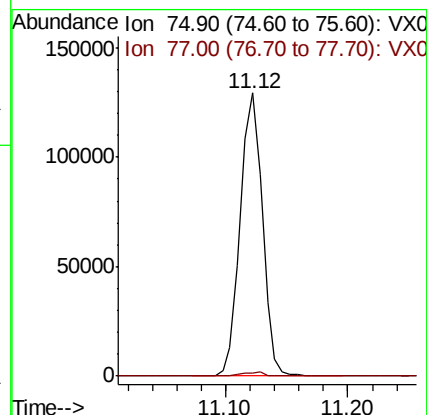
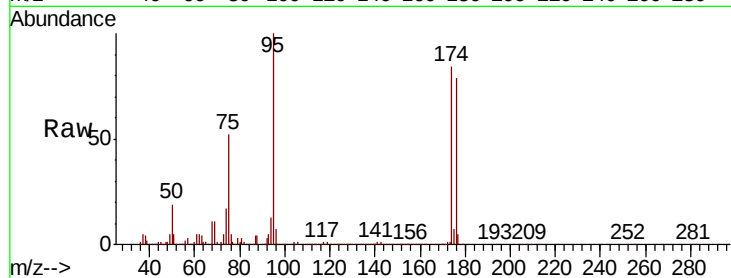
N35868

Tot Ion: 75 Resp: 161291

Ion Ratio Lower Upper

75 100

77 1.6 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.563 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

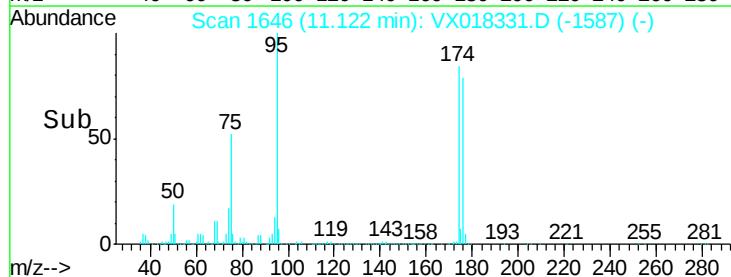
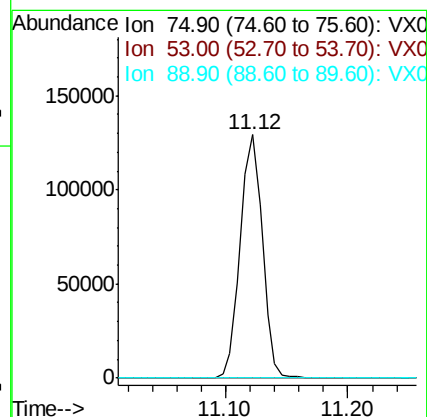
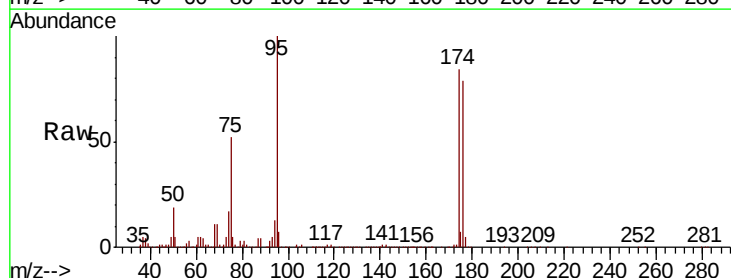
Tgt Ion: 75 Resp: 161291

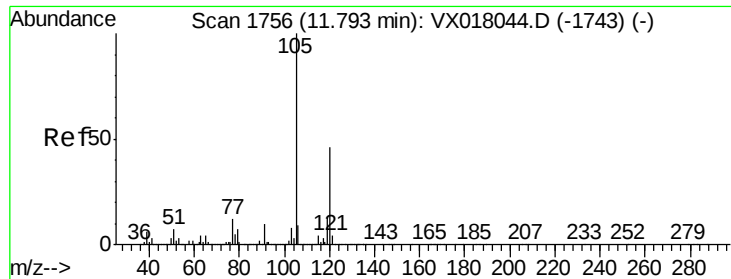
Ion Ratio Lower Upper

75 100

53 0.4 74.7 112.1#

89 0.0 36.6 54.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.359 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

Instrument :

MSVOA_X

ClientSampled :

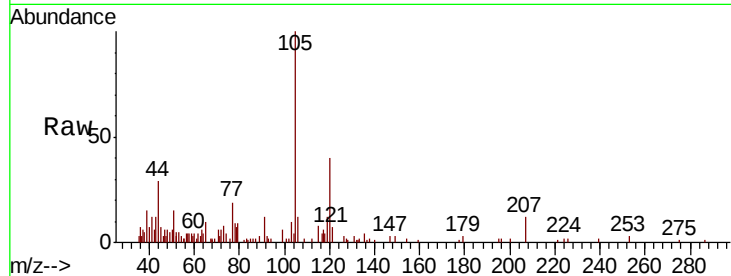
N35868

Tot Ion:105 Resp: 6430

Ion Ratio Lower Upper

105 100

120 41.9 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.79

5000

4000

3000

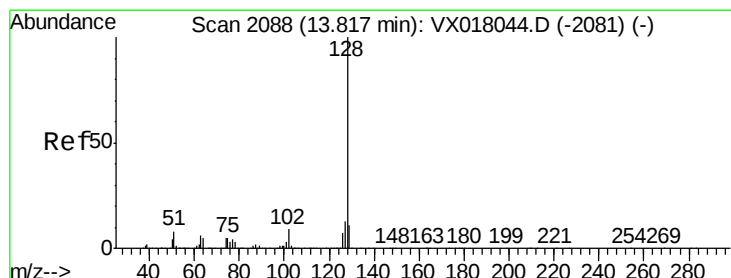
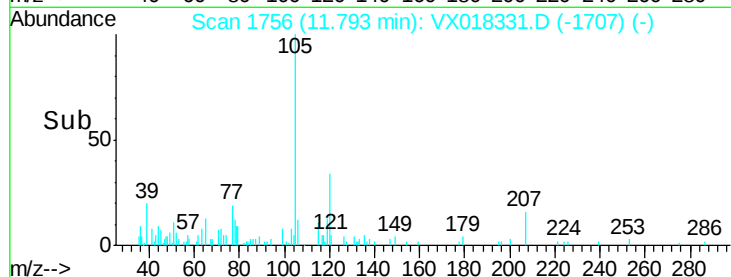
2000

1000

0

Time-->

11.75 11.80



#95

Naphthalene

Concen: 0.314 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018331.D

Acq: 09 Sep 2020 18:54

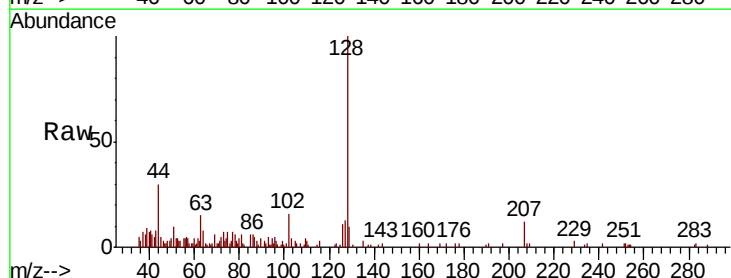
Tgt Ion:128 Resp: 6706

Ion Ratio Lower Upper

128 100

127 19.3 10.2 15.2#

129 13.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

13.82

6000

5000

4000

3000

2000

1000

0

Time-->

13.75 13.80 13.85 13.90

