

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX090920\
 Data File : VX018324.D
 Acq On : 09 Sep 2020 15:52
 Operator : JC/SP
 Sample : PB131488ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB131488ZHE#13

Quant Time: Sep 10 07:05:32 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	5.63	168	440887	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	719215	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	710744	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	350266	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	320499	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
35) Dibromofluoromethane	5.47	113	250846	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
50) Toluene-d8	8.70	98	889803	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
62) 4-Bromofluorobenzene	11.12	95	343035	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	

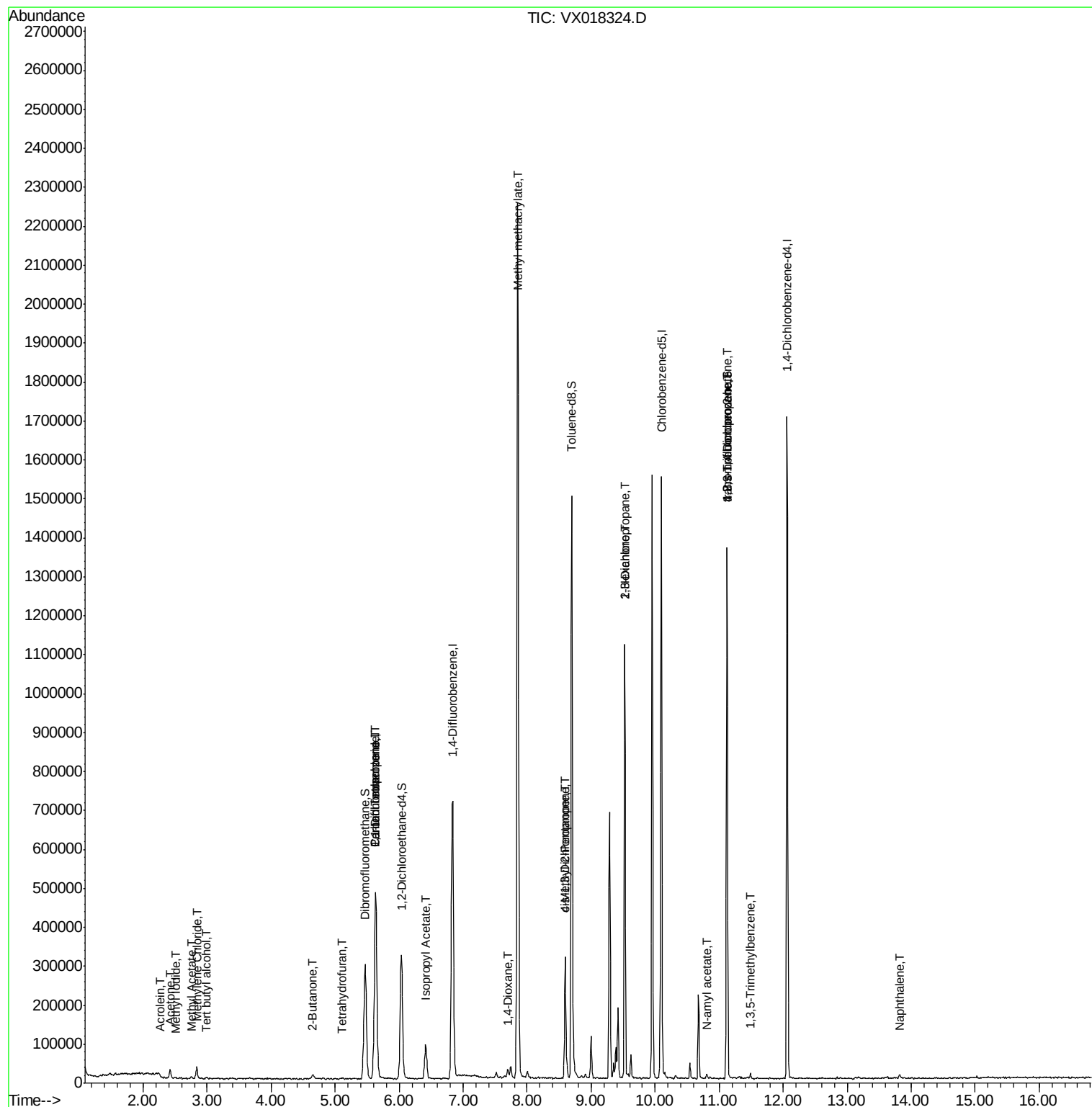
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	229	5.333	ug/l #	71
11) Tert butyl alcohol	2.98	59	2550	2.143	ug/l #	89
13) Acrolein	2.28	56	405	0.821	ug/l	87
16) Acetone	2.42	43	22332	9.364	ug/l #	88
18) Methyl Acetate	2.75	43	5979	1.039	ug/l #	85
20) Methylene Chloride	2.84	84	14210	1.788	ug/l	93
25) 2-Butanone	4.64	43	7726	1.971	ug/l	91
29) Tetrahydrofuran	5.10	42	757	0.303	ug/l #	18
36) 1,1-Dichloropropene	5.63	75	34631	5.220	ug/l #	51
38) Carbon Tetrachloride	5.63	117	45710	6.114	ug/l #	18
43) Isopropyl Acetate	6.42	43	119856	9.631	ug/l	99
48) Methyl methacrylate	7.85	41	201867	32.586	ug/l #	44
49) 1,4-Dioxane	7.71	88	149	1.328	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	121113	15.756	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	51619	5.960	ug/l #	60
57) 1,3-Dichloropropane	9.52	76	8896	1.023	ug/l #	47
59) 2-Hexanone	9.52	43	127323	21.783	ug/l #	52
74) N-amyl acetate	10.80	43	5694	0.519	ug/l #	55
76) 1,2,3-Trichloropropane	11.12	75	177147	22.735	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.49	105	5112	0.269	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.12	75	177147	61.404	ug/l #	12
95) Naphthalene	13.82	128	6485	0.280	ug/l #	86

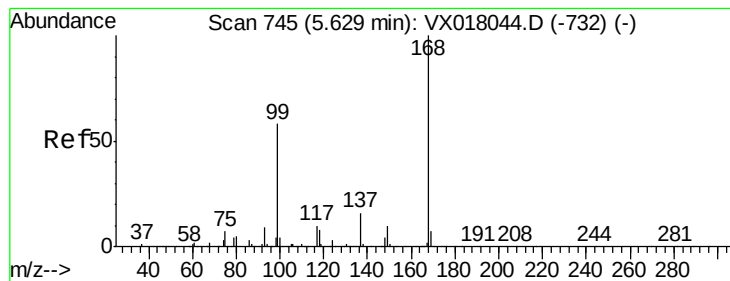
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 10 07:05:32 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

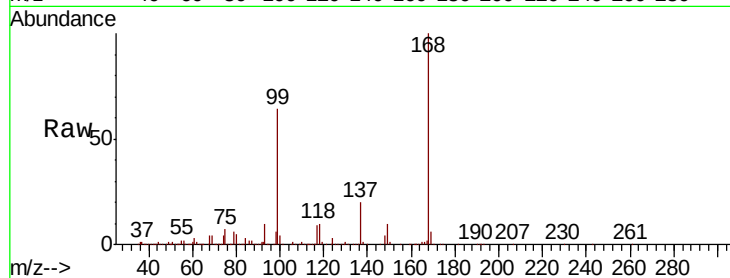
PB131488ZHE#13

Tot Ion:168 Resp: 440887

Ion Ratio Lower Upper

168 100

99 63.7 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

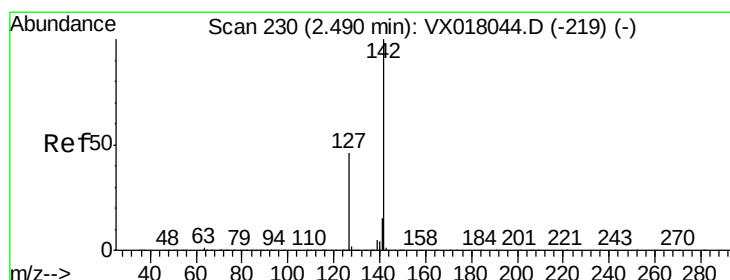
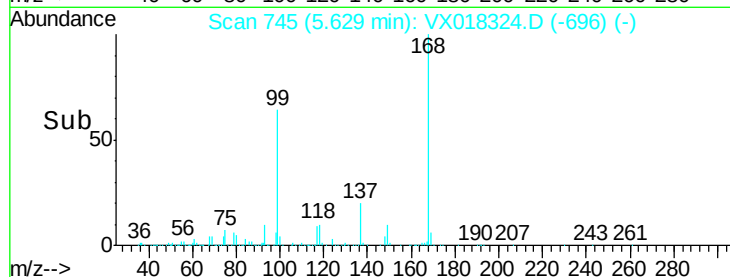
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 5.333 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

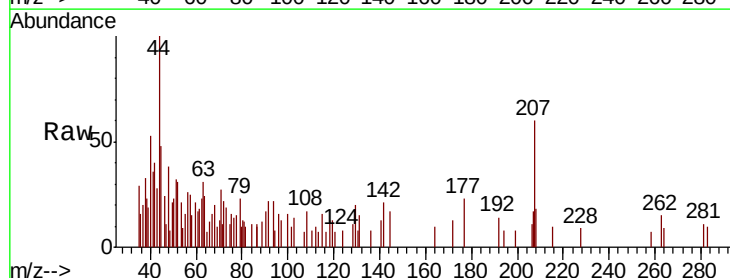
Tgt Ion:142 Resp: 229

Ion Ratio Lower Upper

142 100

127 70.7 37.0 55.6#

141 15.7 11.5 17.3



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

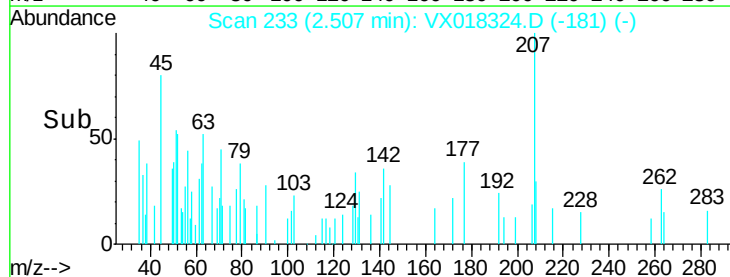
300

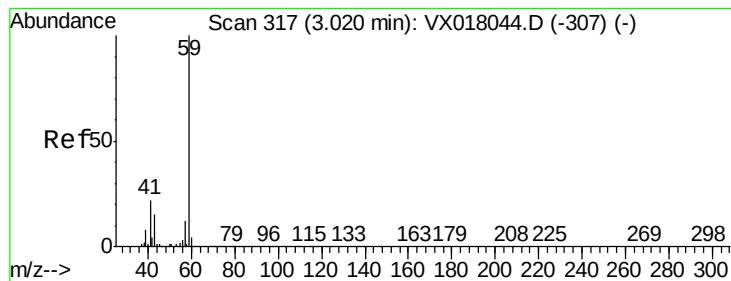
200

100

0

Time-->



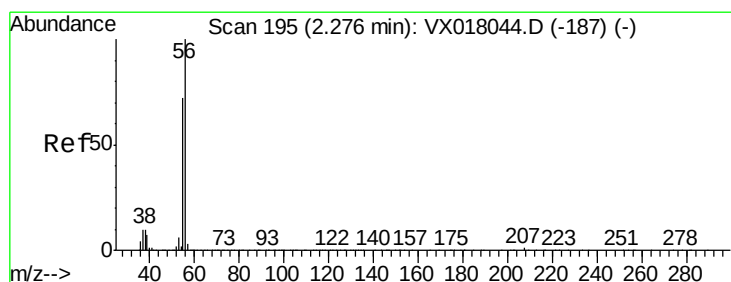
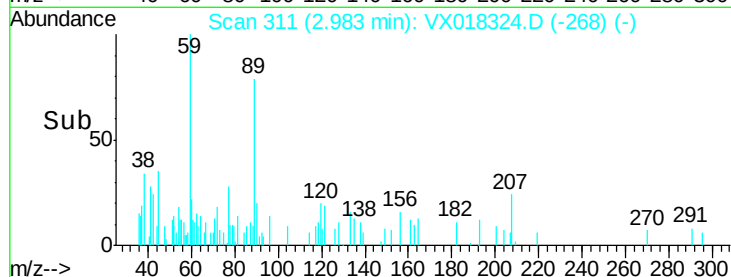
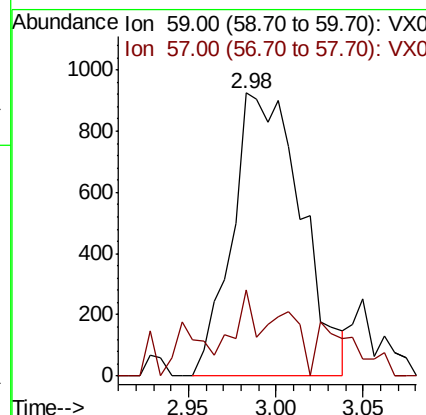
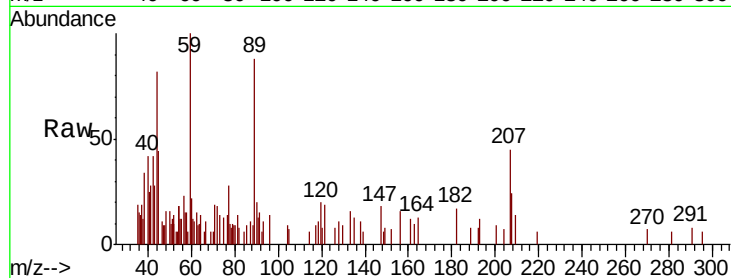


#11

Tert butyl alcohol
Concen: 2.143 ug/l
RT: 2.98 min Scan# 311
Delta R.T. -0.04 min
Lab File: VX018324.D
Acq: 09 Sep 2020 15:52

Instrument :
MSVOA_X
ClientSampleId :
PB131488ZHE#13

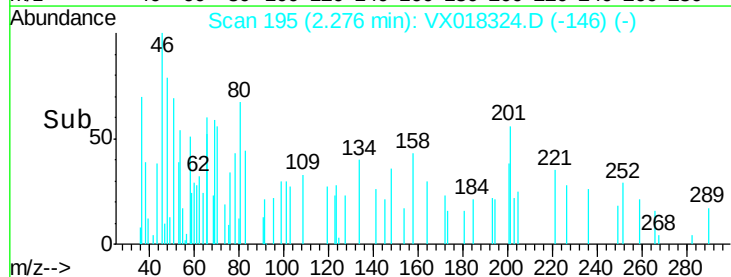
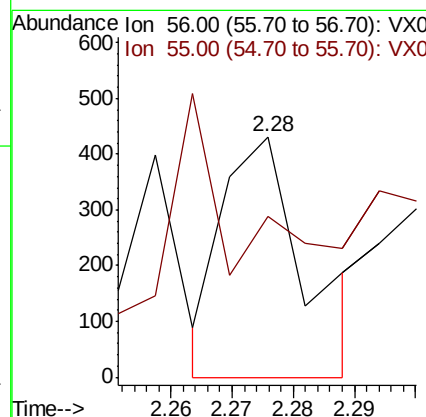
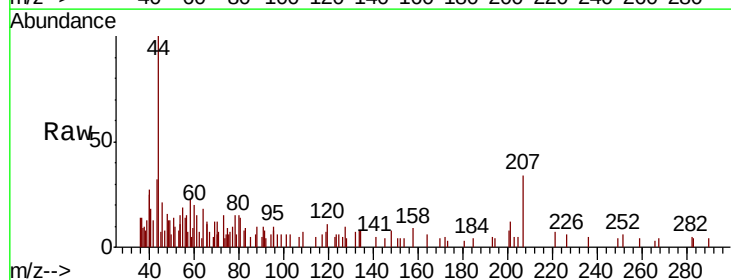
Tot Ion: 59 Resp: 2550
Ion Ratio Lower Upper
59 100
57 7.0 8.9 13.3#

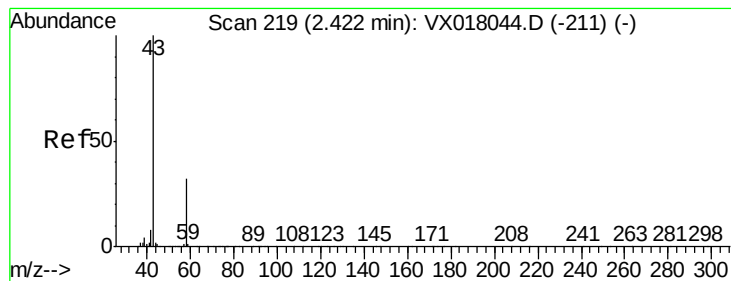


#13

Acrolein
Concen: 0.821 ug/l
RT: 2.28 min Scan# 195
Delta R.T. -0.00 min
Lab File: VX018324.D
Acq: 09 Sep 2020 15:52

Tgt Ion: 56 Resp: 405
Ion Ratio Lower Upper
56 100
55 60.5 57.0 85.6





#16

Acetone

Concen: 9.364 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

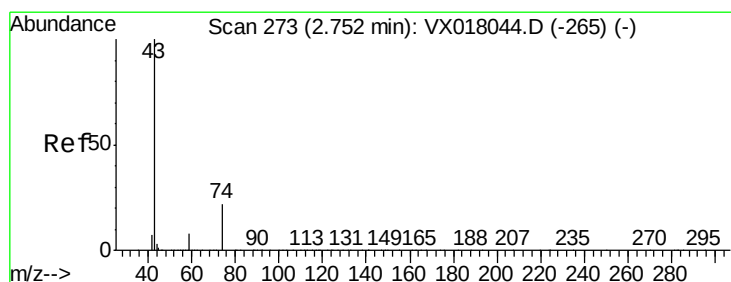
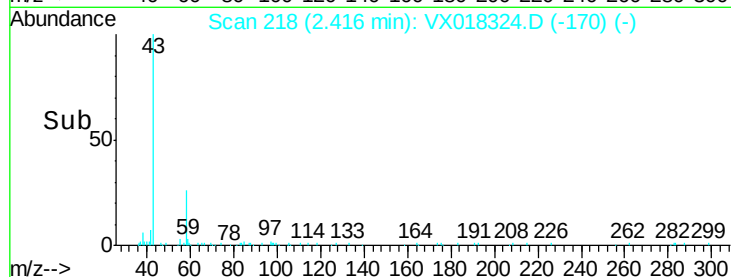
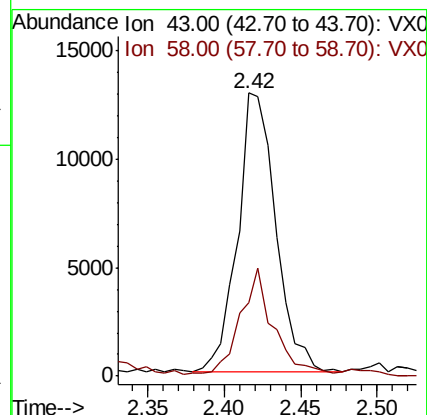
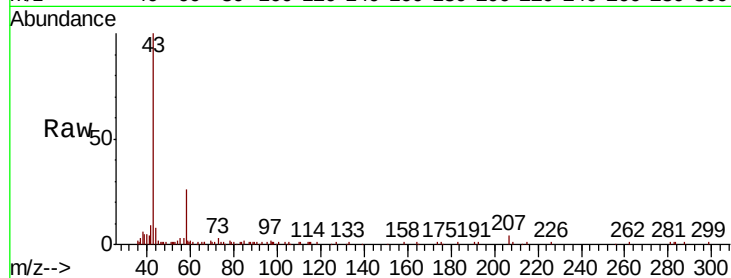
PB131488ZHE#13

Tot Ion: 43 Resp: 22332

Ion Ratio Lower Upper

43 100

58 25.0 25.5 38.3#



#18

Methyl Acetate

Concen: 1.039 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX018324.D

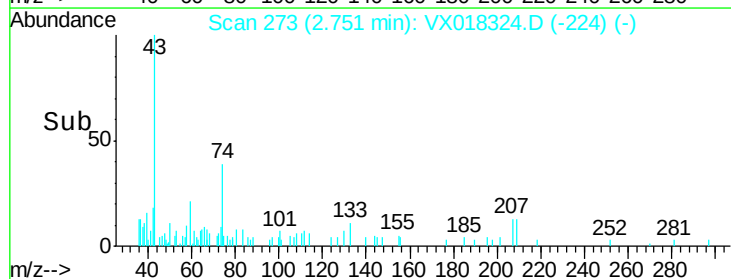
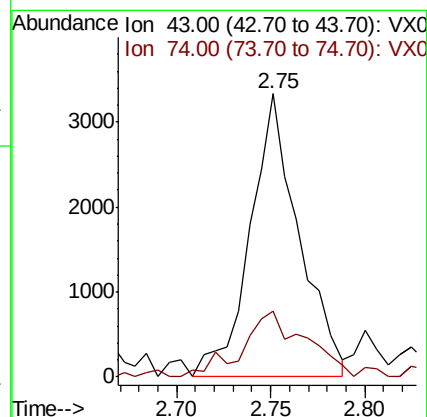
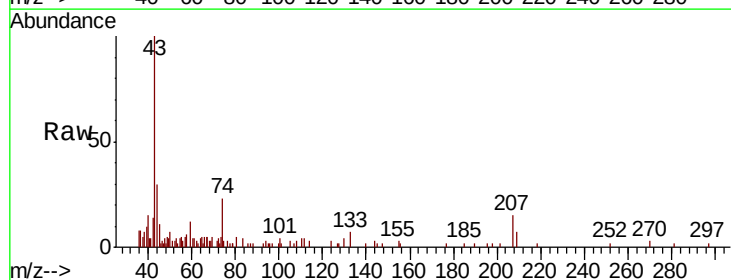
Acq: 09 Sep 2020 15:52

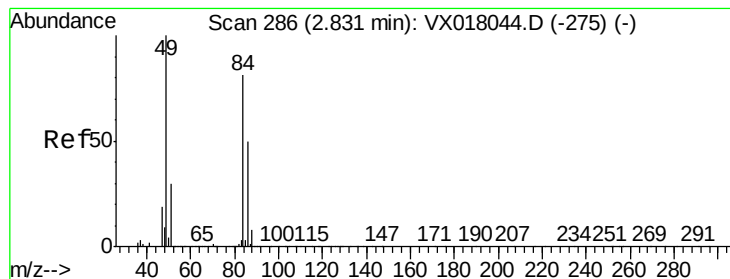
Tgt Ion: 43 Resp: 5979

Ion Ratio Lower Upper

43 100

74 29.9 18.2 27.4#





#20

Methylene Chloride

Concen: 1.788 ug/l

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

PB131488ZHE#13

Tot Ion: 84 Resp: 14210

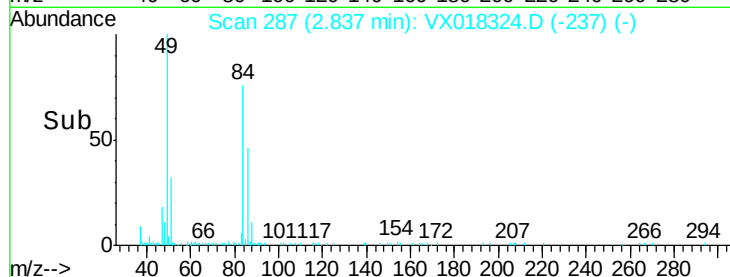
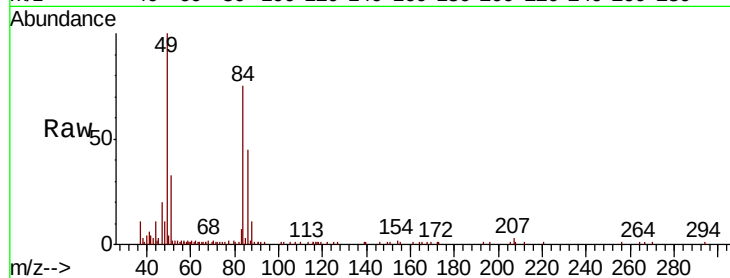
Ion	Ratio	Lower	Upper
84	100		
49	133.8	98.6	148.0
51	42.7	29.6	44.4
86	60.2	49.8	74.6

84 100

49 133.8 98.6 148.0

51 42.7 29.6 44.4

86 60.2 49.8 74.6



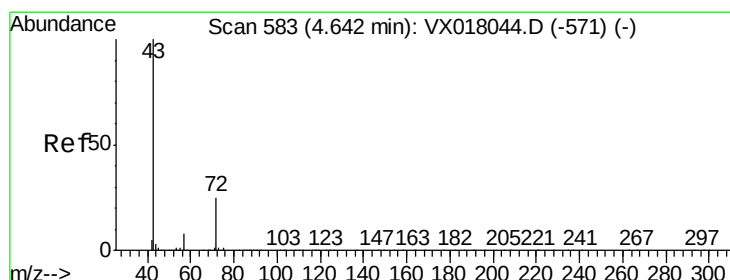
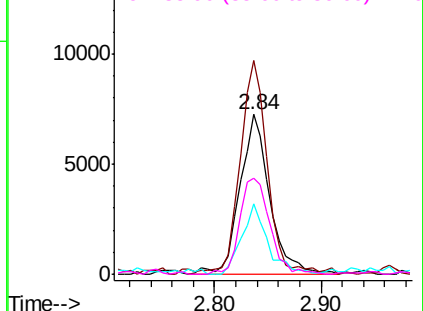
Abundance

Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.971 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.00 min

Lab File: VX018324.D

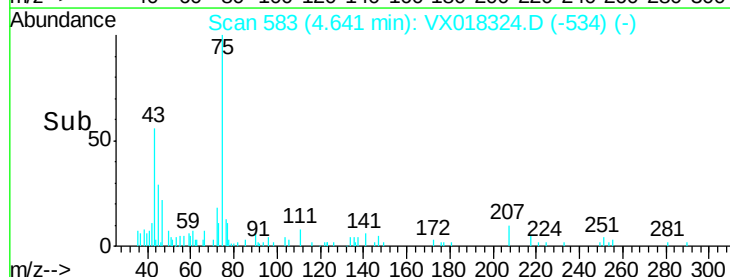
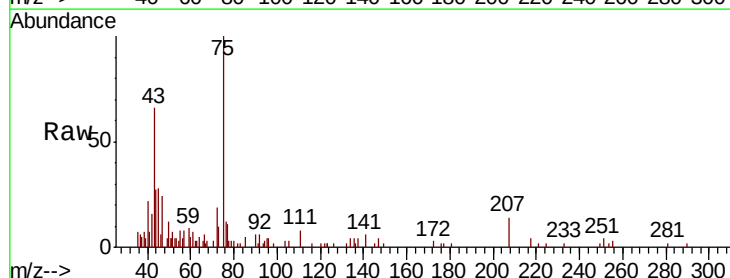
Acq: 09 Sep 2020 15:52

Tgt Ion: 43 Resp: 7726

Ion	Ratio	Lower	Upper
43	100		
72	29.3	19.8	29.6

43 100

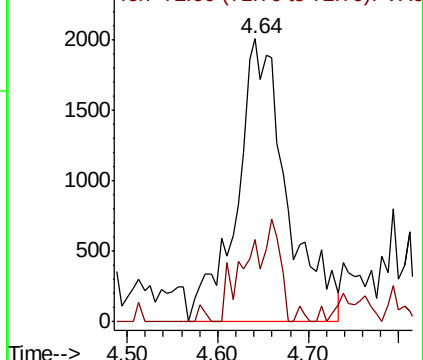
72 29.3 19.8 29.6

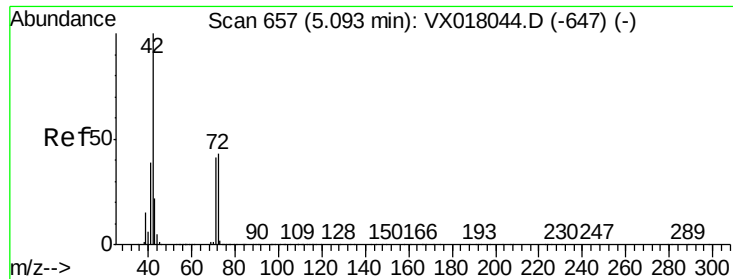


Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

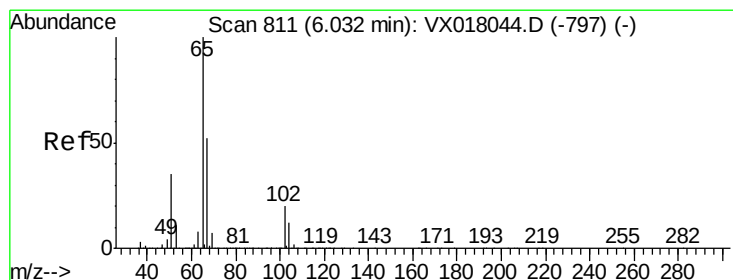
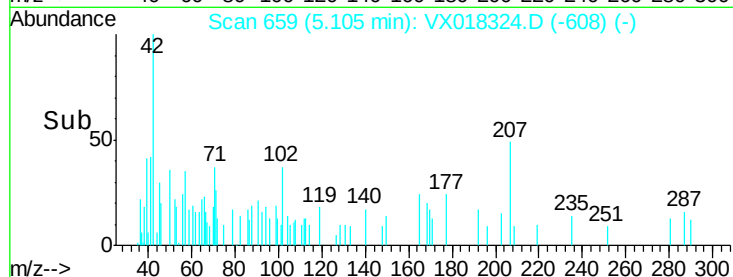
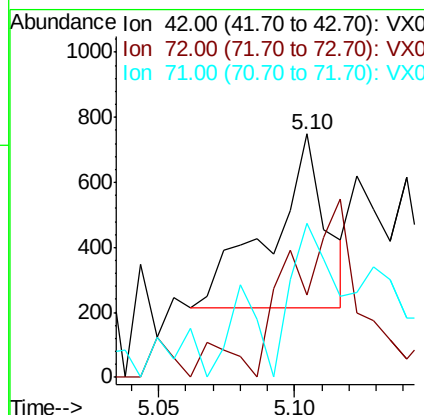
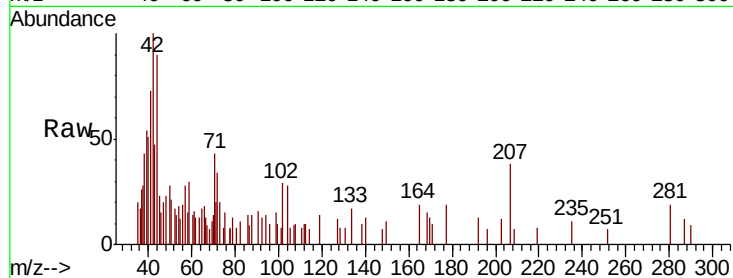




#29
Tetrahydrofuran
Concen: 0.303 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX018324.D
Acq: 09 Sep 2020 15:52

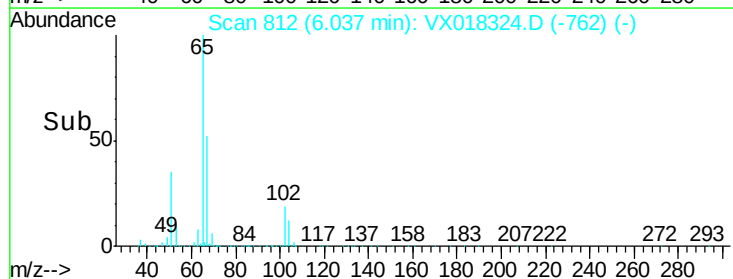
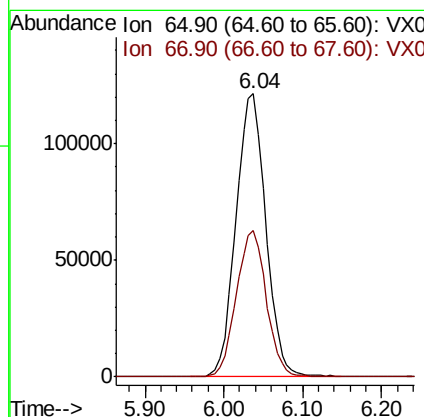
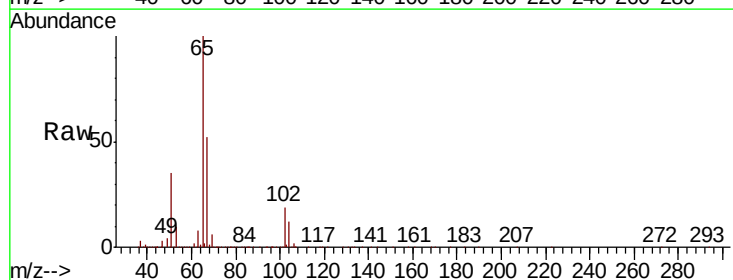
Instrument :
MSVOA_X
ClientSampleId :
PB131488ZHE#13

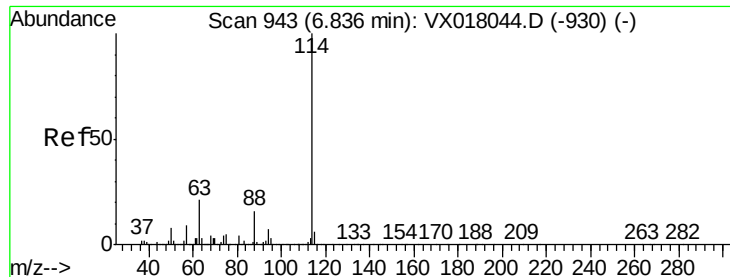
Tot Ion: 42 Resp: 757
Ion Ratio Lower Upper
42 100
72 118.2 34.2 51.4#
71 67.1 32.1 48.1#



#33
1,2-Dichloroethane-d4
Concen: 52.364 ug/l
RT: 6.04 min Scan# 812
Delta R.T. 0.01 min
Lab File: VX018324.D
Acq: 09 Sep 2020 15:52

Tgt Ion: 65 Resp: 320499
Ion Ratio Lower Upper
65 100
67 51.6 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

PB131488ZHE#13

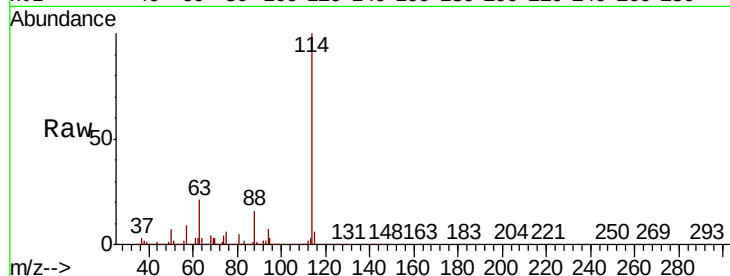
Tot Ion:114 Resp: 719215

Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.6

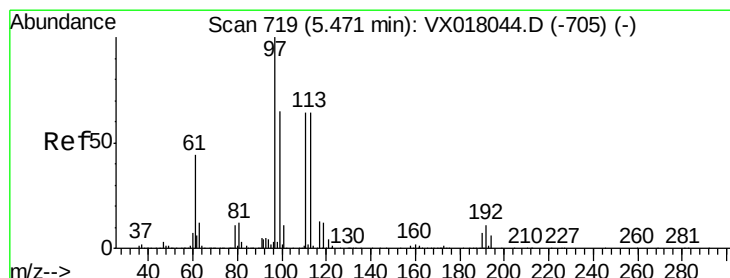
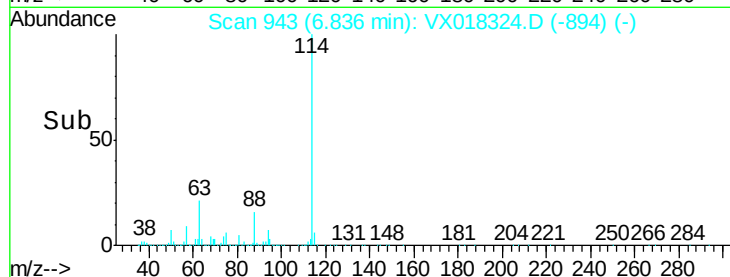
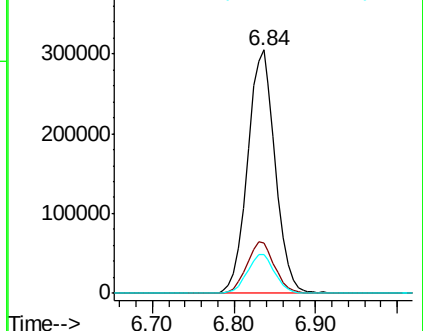
88 15.7 0.0 31.8



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: 51.212 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

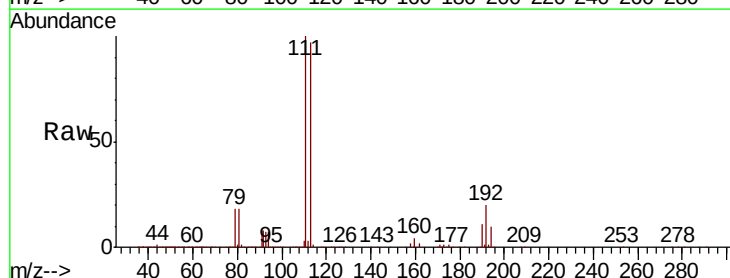
Tgt Ion:113 Resp: 250846

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

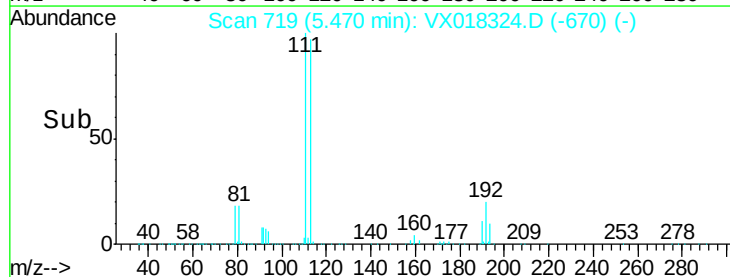
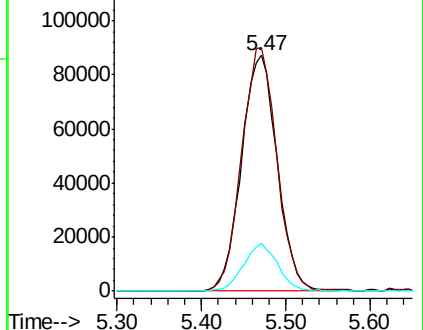
192 19.4 15.8 23.8

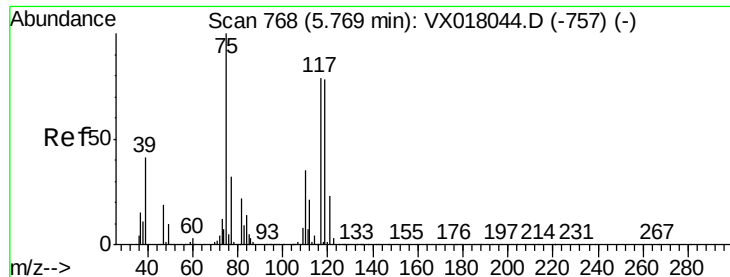


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.220 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

PB131488ZHE#13

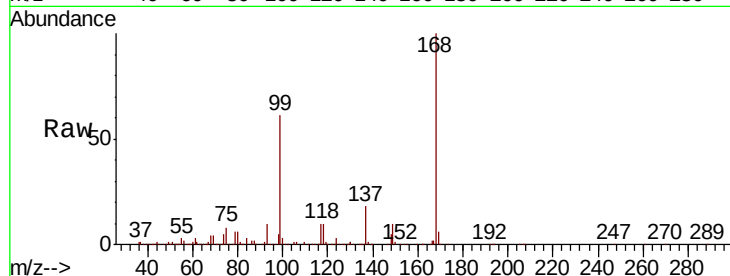
Tot Ion: 75 Resp: 34631

Ion Ratio Lower Upper

75 100

110 10.4 18.0 54.0#

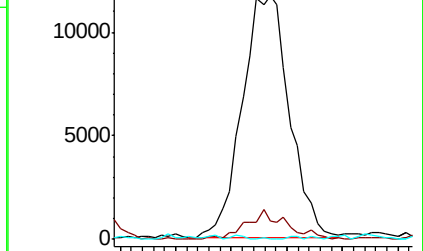
77 0.1 24.4 36.6#



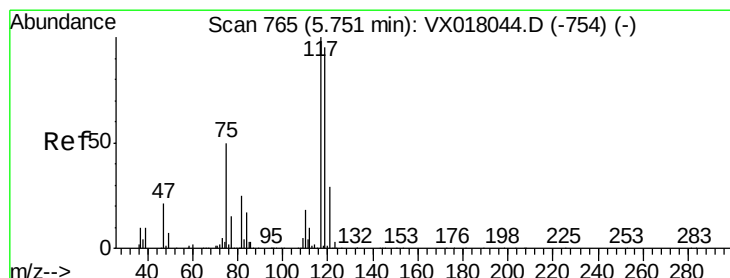
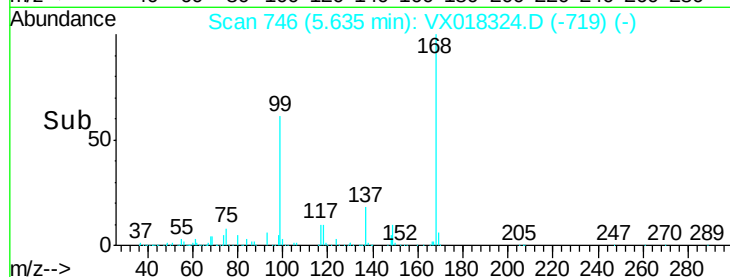
Abundance Ion 74.90 (74.60 to 75.60): VX018324.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX018324.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX018324.D (-719) (-)



Time-->



#38

Carbon Tetrachloride

Concen: 6.114 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

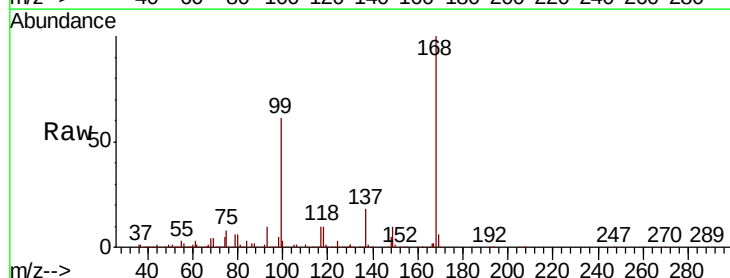
Tgt Ion: 117 Resp: 45710

Ion Ratio Lower Upper

117 100

119 6.5 75.8 113.6#

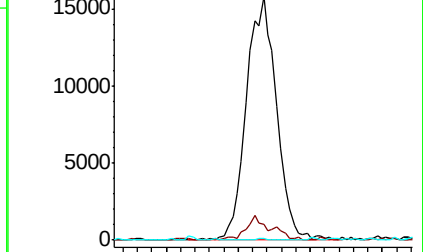
121 0.0 23.4 35.0#



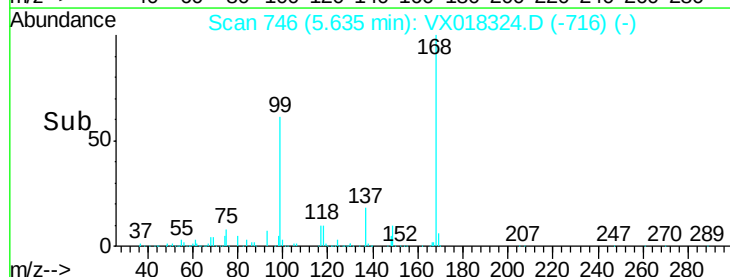
Abundance Ion 116.80 (116.50 to 117.50): VX018324.D (-716) (-)

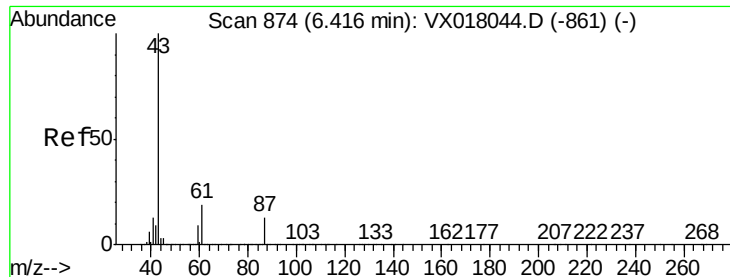
Ion 118.80 (118.50 to 119.50): VX018324.D (-716) (-)

Ion 120.80 (120.50 to 121.50): VX018324.D (-716) (-)



Time-->





#43

Isopropyl Acetate

Concen: 9.631 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

PB131488ZHE#13

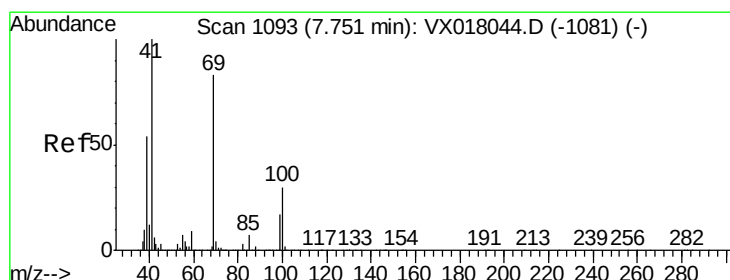
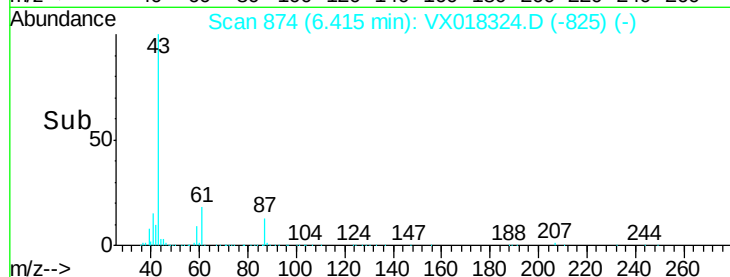
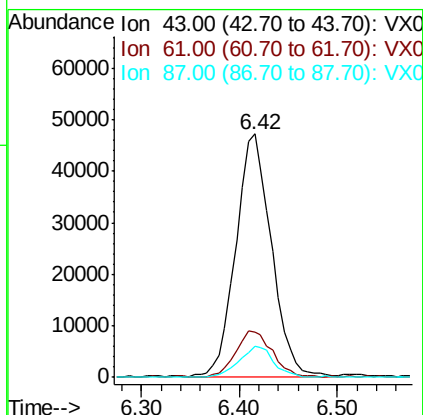
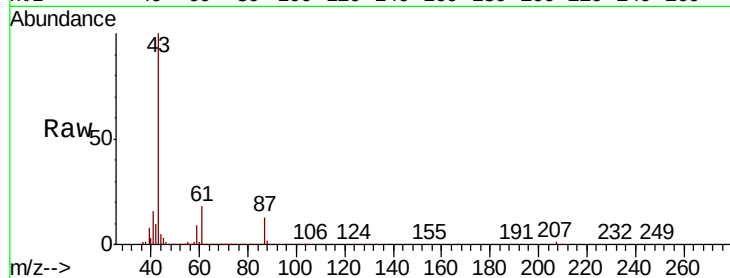
Tot Ion: 43 Resp: 119856

Ion Ratio Lower Upper

43 100

61 19.4 15.7 23.5

87 12.4 10.3 15.5



#48

Methyl methacrylate

Concen: 32.586 ug/l

RT: 7.85 min Scan# 1109

Delta R.T. 0.10 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

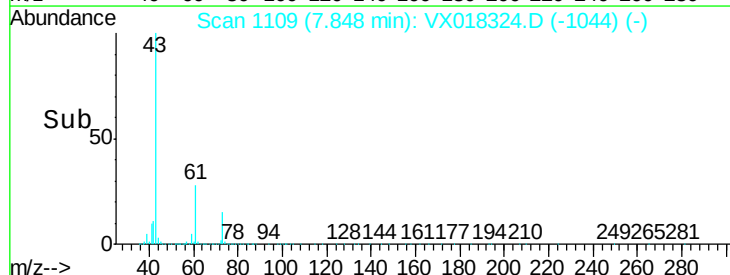
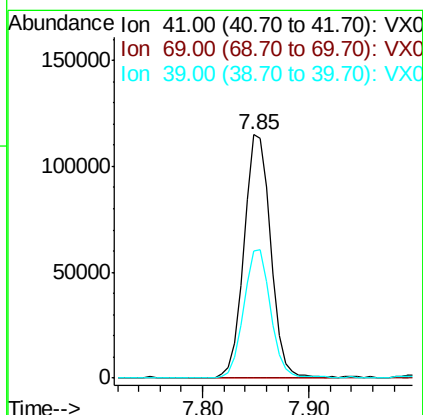
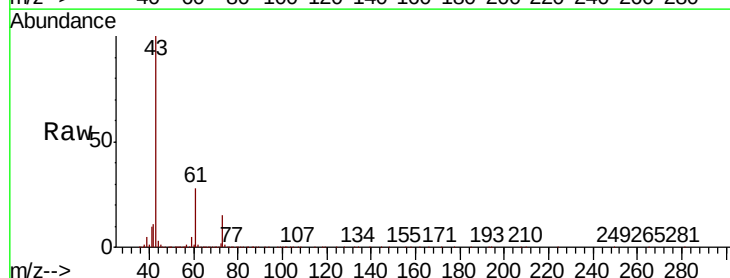
Tgt Ion: 41 Resp: 201867

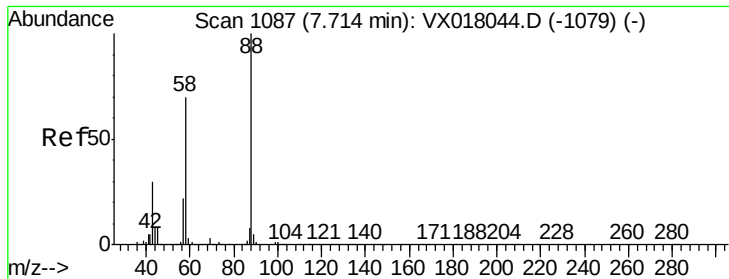
Ion Ratio Lower Upper

41 100

69 0.2 65.5 98.3#

39 53.0 44.5 66.7





#49

1,4-Dioxane

Concen: 1.328 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

PB131488ZHE#13

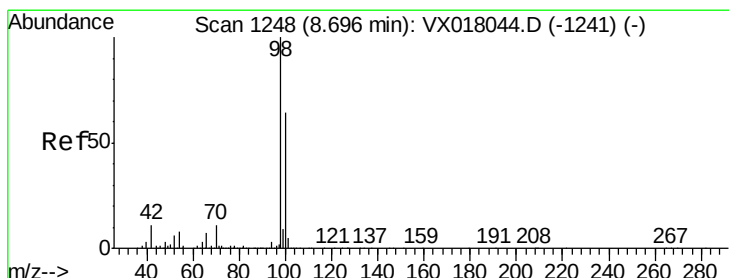
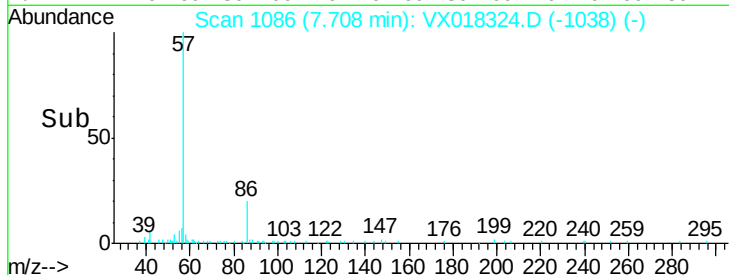
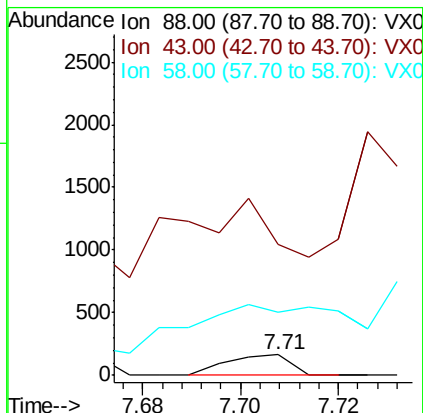
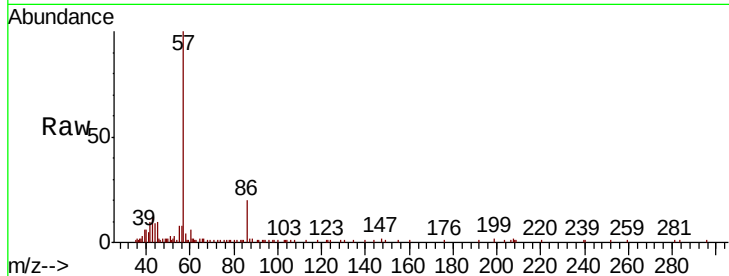
Tot Ion: 88 Resp: 149

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 836.2 56.4 84.6#



#50

Toluene-d8

Concen: 48.773 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018324.D

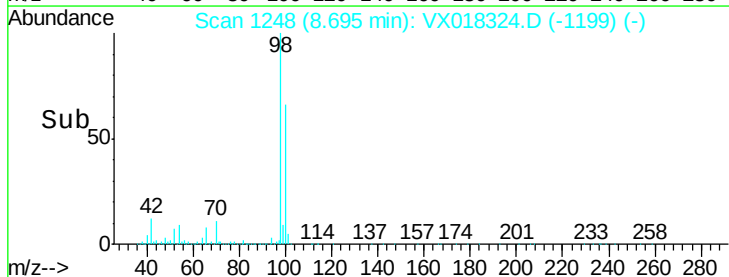
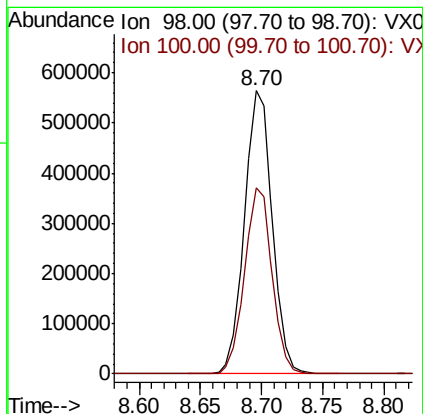
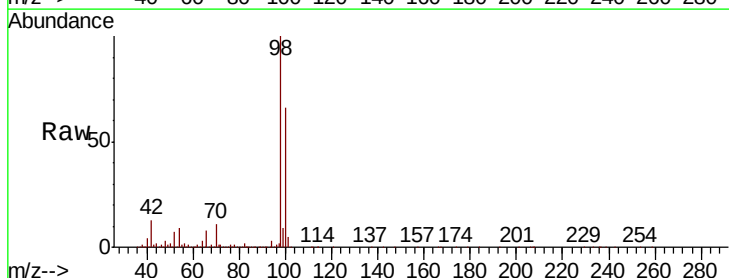
Acq: 09 Sep 2020 15:52

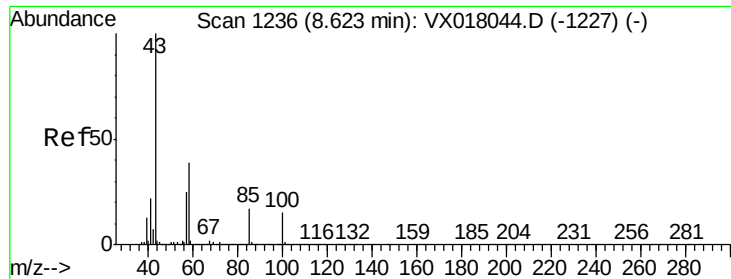
Tgt Ion: 98 Resp: 889803

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.4

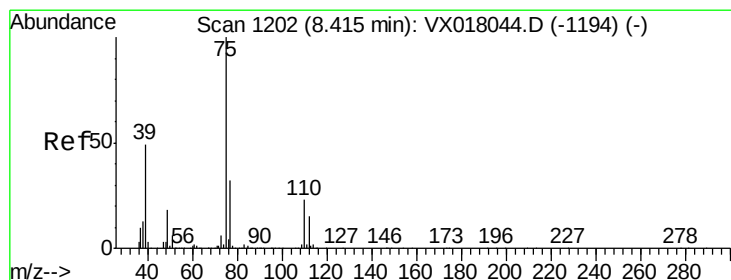
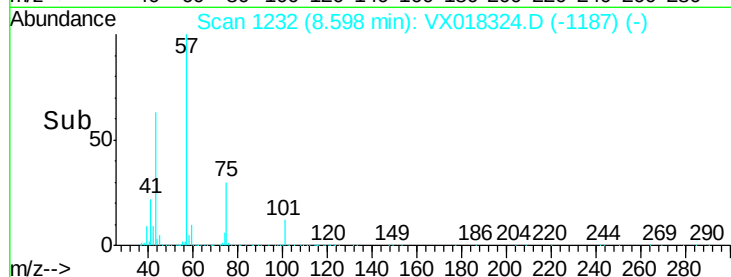
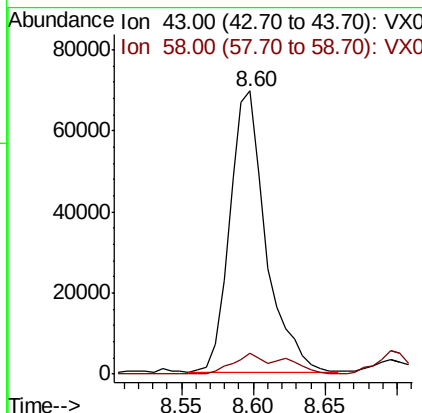
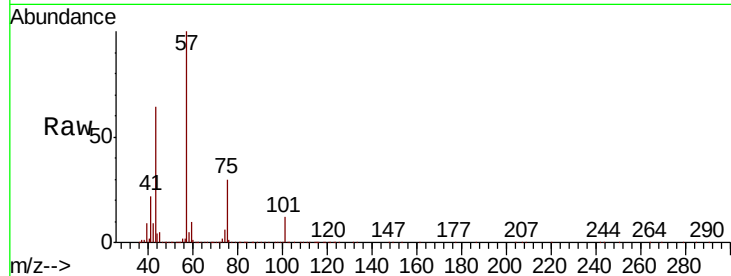




#51
 4-Methyl-2-Pentanone
 Concen: 15.756 ug/l
 RT: 8.60 min Scan# 1232
 Delta R.T. -0.02 min
 Lab File: VX018324.D
 Acq: 09 Sep 2020 15:52

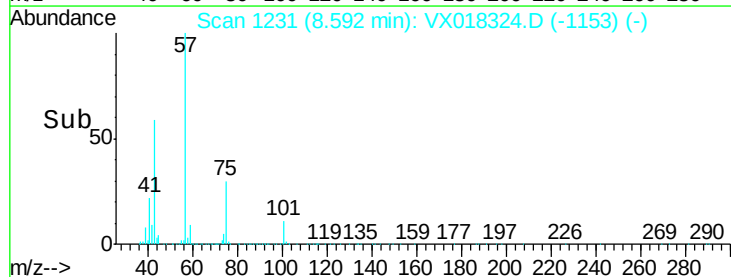
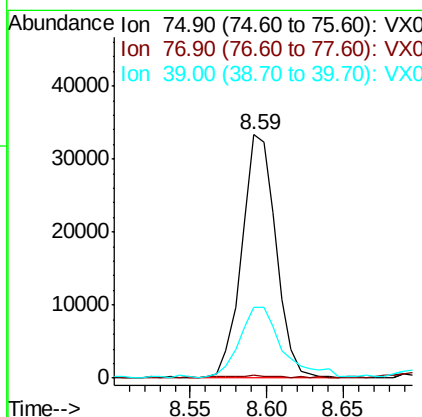
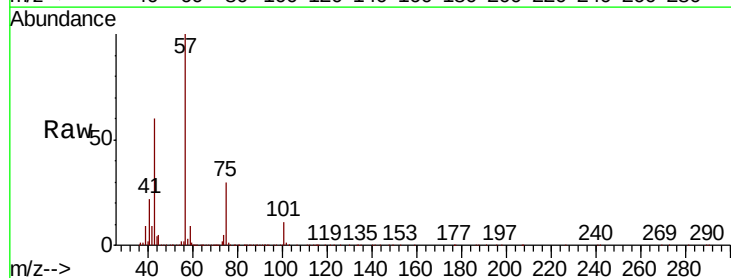
Instrument :
 MSVOA_X
 ClientSampleId :
 PB131488ZHE#13

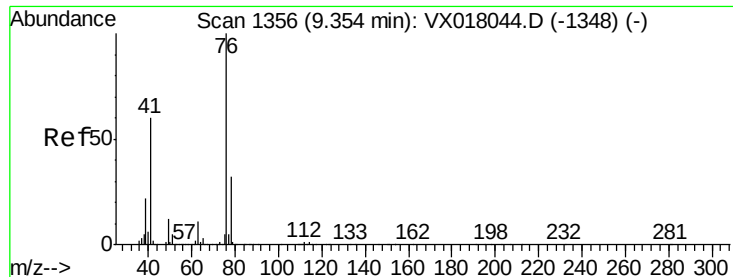
Tot Ion: 43 Resp: 121113
 Ion Ratio Lower Upper
 43 100
 58 6.3 30.7 46.1#



#54
 cis-1,3-Dichloropropene
 Concen: 5.960 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX018324.D
 Acq: 09 Sep 2020 15:52

Tgt Ion: 75 Resp: 51619
 Ion Ratio Lower Upper
 75 100
 77 1.0 25.8 38.8#
 39 28.4 38.8 58.2#





#57

1,3-Dichloropropane

Concen: 1.023 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.17 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

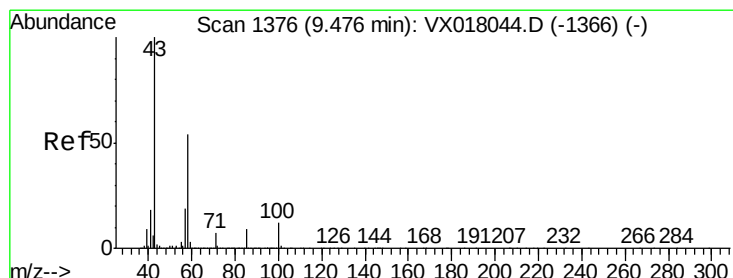
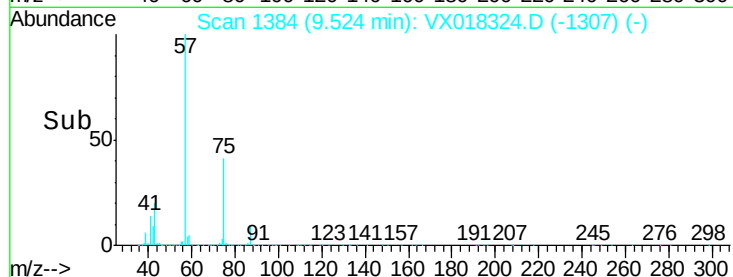
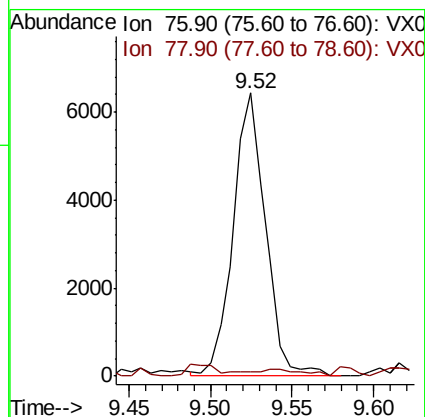
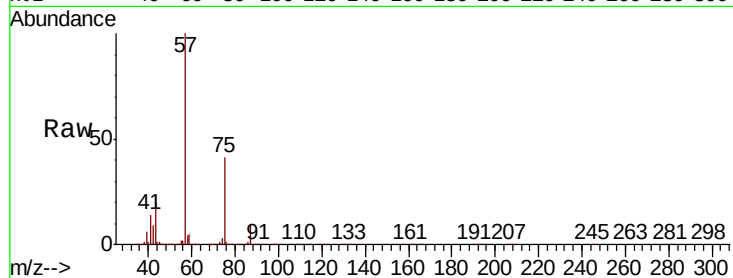
PB131488ZHE#13

Tot Ion: 76 Resp: 8896

Ion Ratio Lower Upper

76 100

78 2.3 25.8 38.6#



#59

2-Hexanone

Concen: 21.783 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018324.D

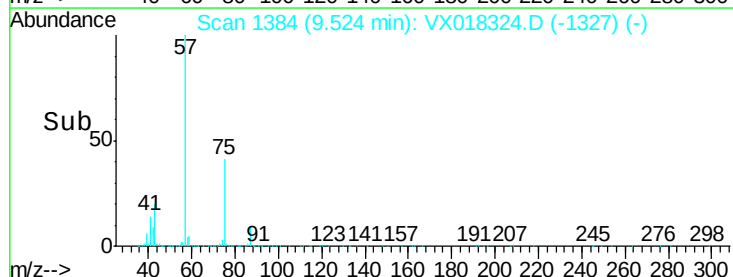
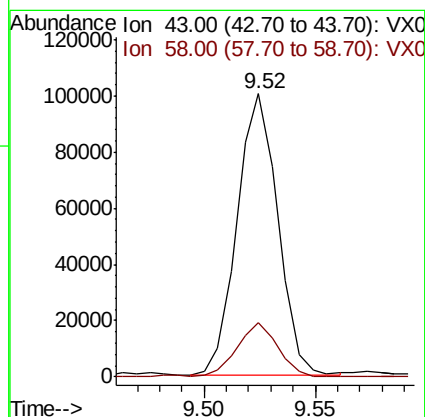
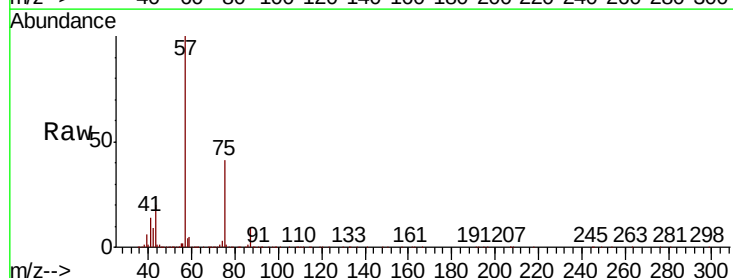
Acq: 09 Sep 2020 15:52

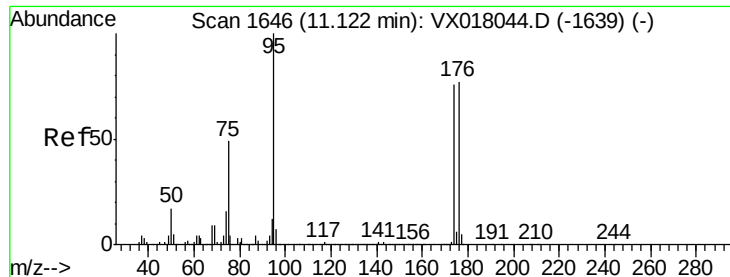
Tgt Ion: 43 Resp: 127323

Ion Ratio Lower Upper

43 100

58 19.3 26.6 79.7#





#62

4-Bromofluorobenzene

Concen: 47.791 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

PB131488ZHE#13

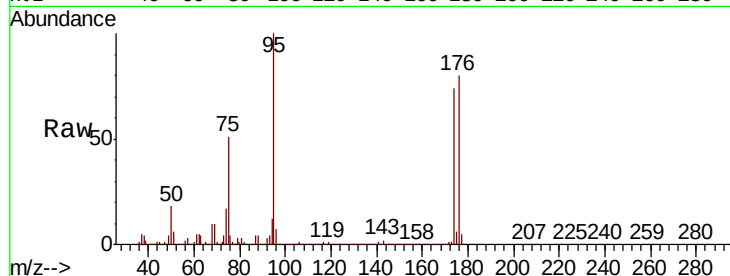
Tot Ion: 95 Resp: 343035

Ion Ratio Lower Upper

95 100

174 76.9 0.0 160.2

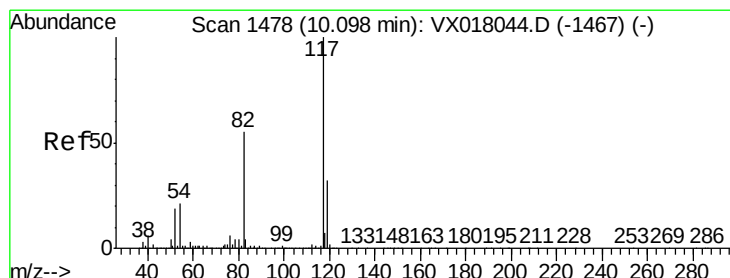
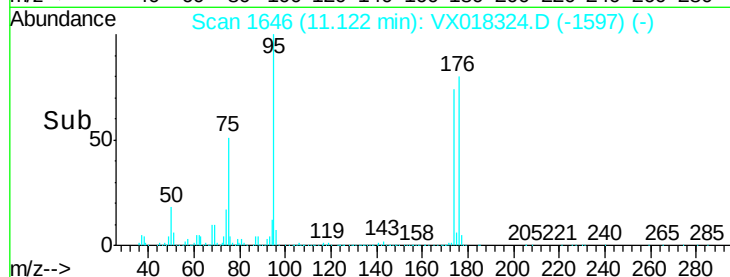
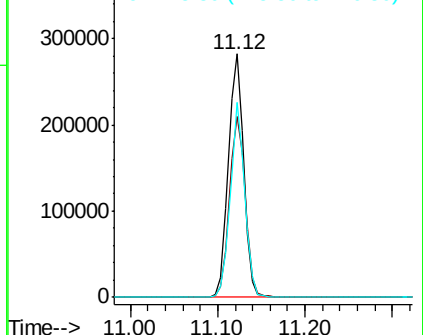
176 75.7 0.0 155.8



Abundance Ion 94.90 (94.60 to 95.60): VX018324.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX018324.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX018324.D (-1597) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

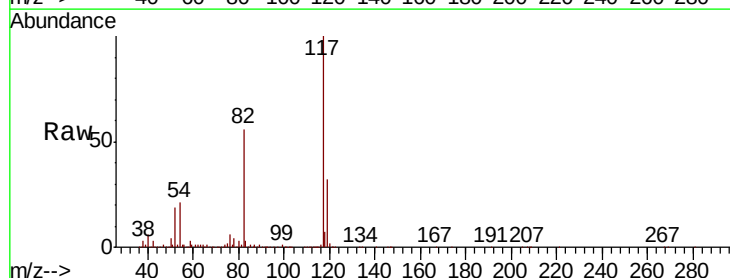
Tgt Ion: 117 Resp: 710744

Ion Ratio Lower Upper

117 100

82 55.9 44.2 66.2

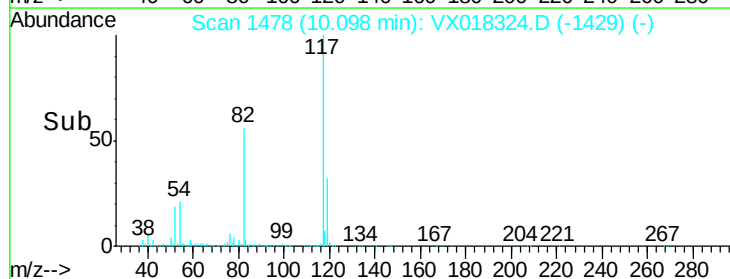
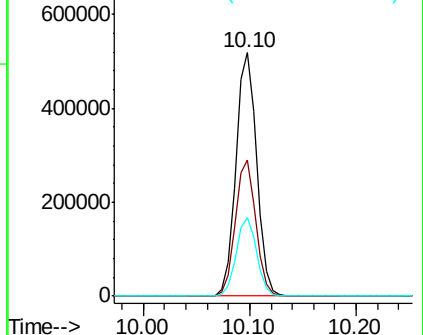
119 32.4 25.7 38.5

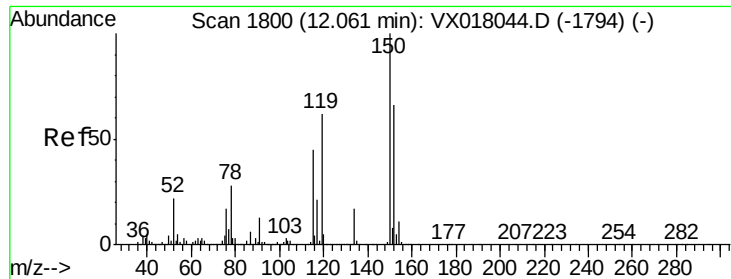


Abundance Ion 116.90 (116.60 to 117.60): VX018324.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX018324.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX018324.D (-1429) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

PB131488ZHE#13

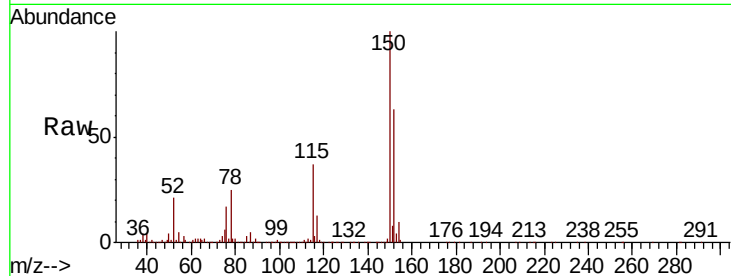
Tot Ion:152 Resp: 350266

Ion Ratio Lower Upper

152 100

115 58.3 41.5 124.5

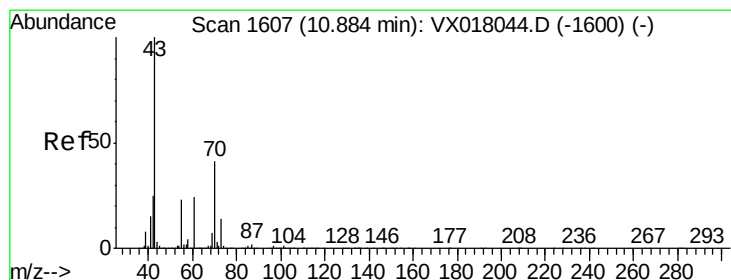
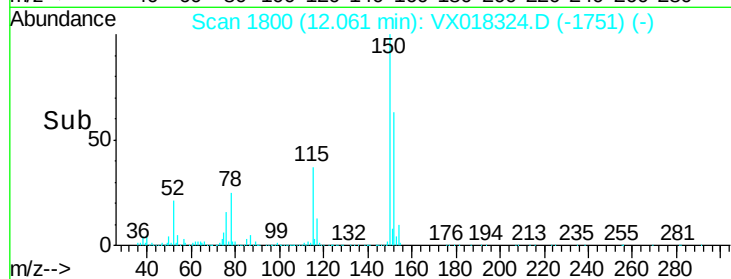
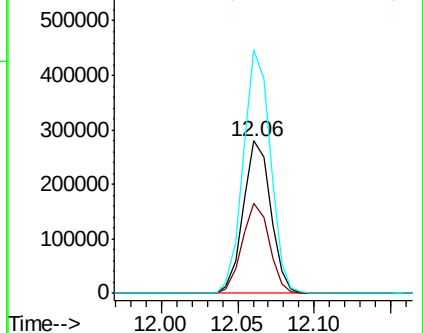
150 157.5 0.0 343.8



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



#74

N-amil acetate

Concen: 0.519 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.08 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Tgt Ion: 43 Resp: 5694

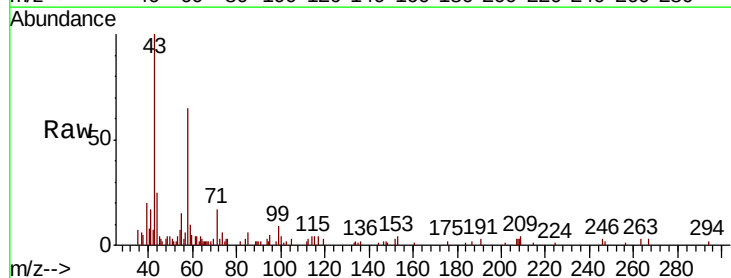
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 19.1 18.2 27.2

61 0.0 18.9 28.3#

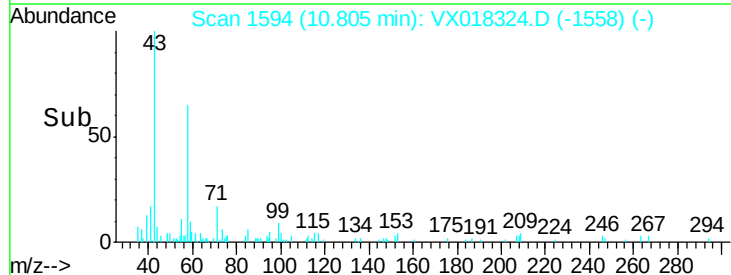
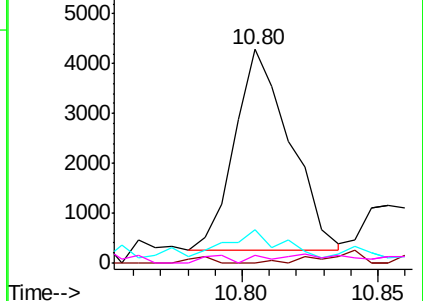


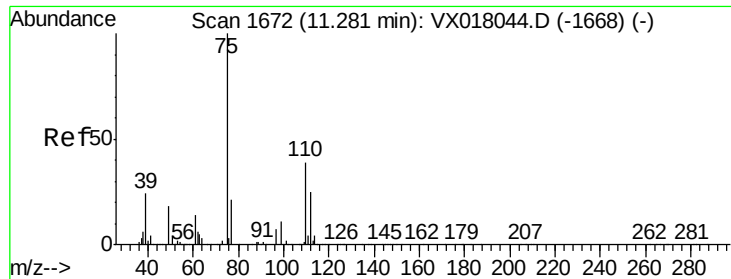
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.735 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

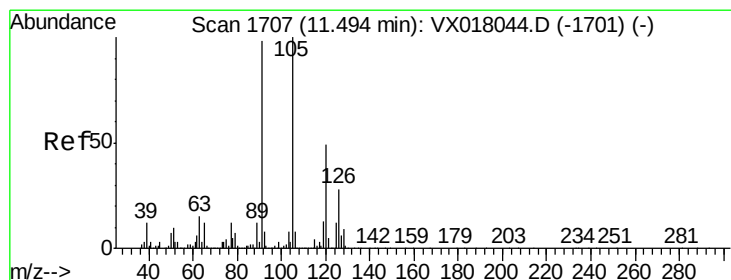
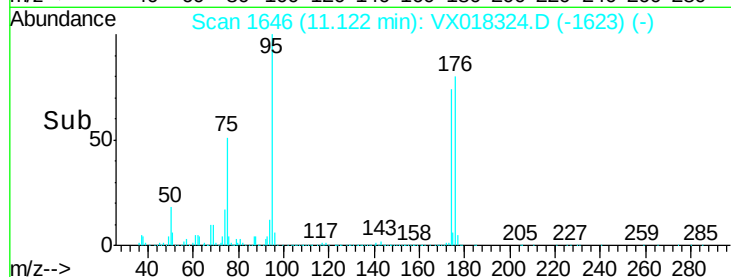
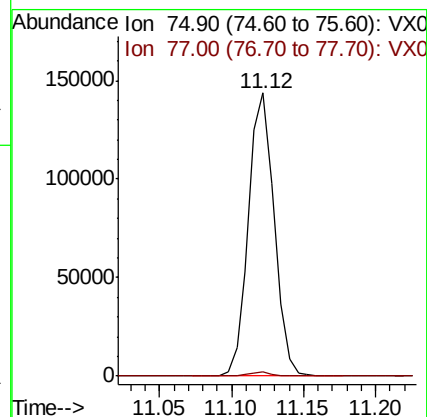
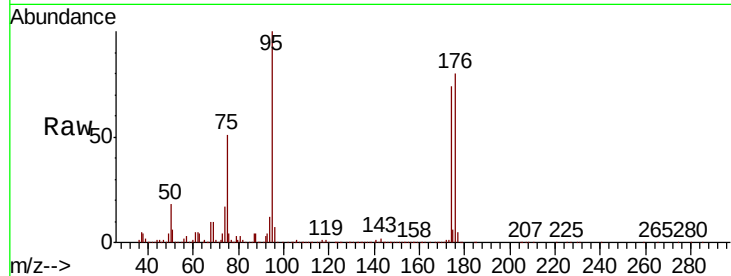
PB131488ZHE#13

Tot Ion: 75 Resp: 177147

Ion Ratio Lower Upper

75 100

77 1.5 20.8 62.2#



#80

1,3,5-Trimethylbenzene

Concen: 0.269 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX018324.D

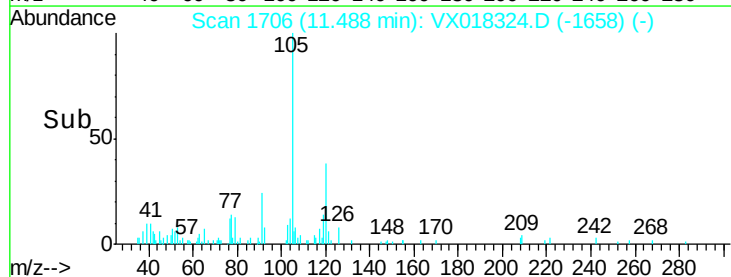
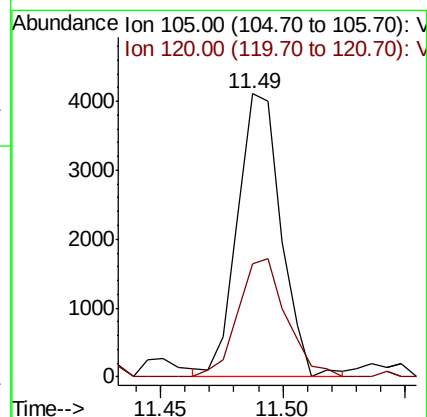
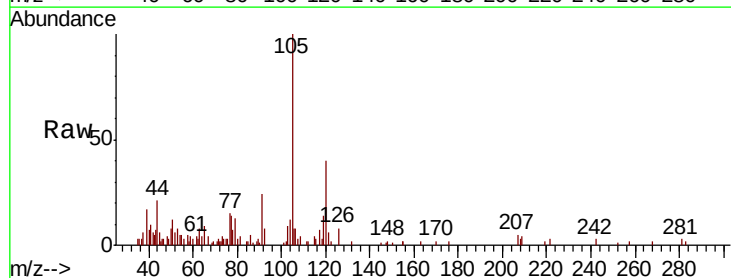
Acq: 09 Sep 2020 15:52

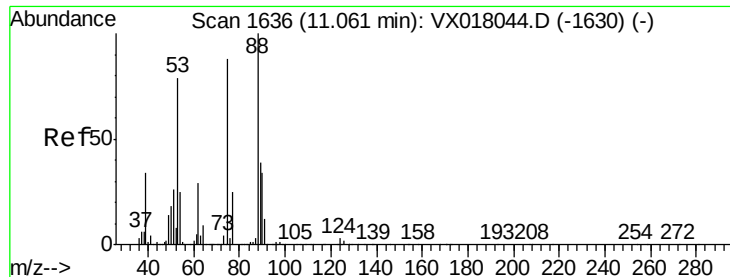
Tgt Ion:105 Resp: 5112

Ion Ratio Lower Upper

105 100

120 46.0 24.1 72.2





#81

trans-1,4-Dichloro-2-butene

Concen: 61.404 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

Instrument :

MSVOA_X

ClientSampleId :

PB131488ZHE#13

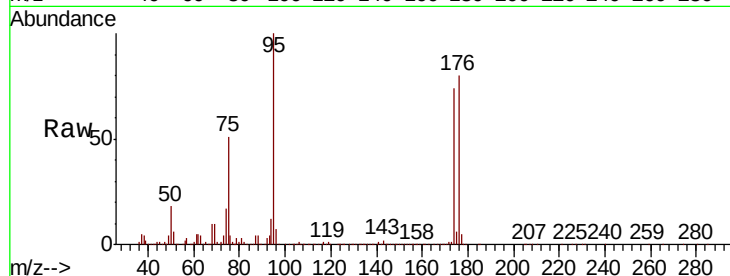
Tot Ion: 75 Resp: 177147

Ion Ratio Lower Upper

75 100

53 0.5 74.7 112.1#

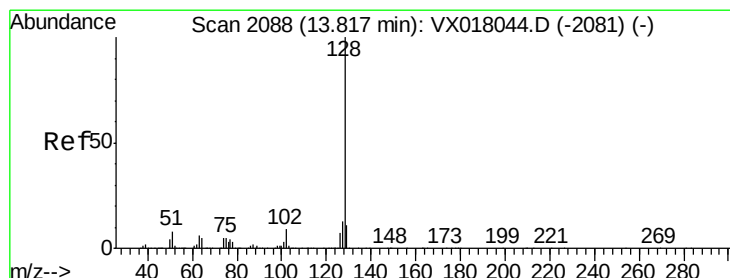
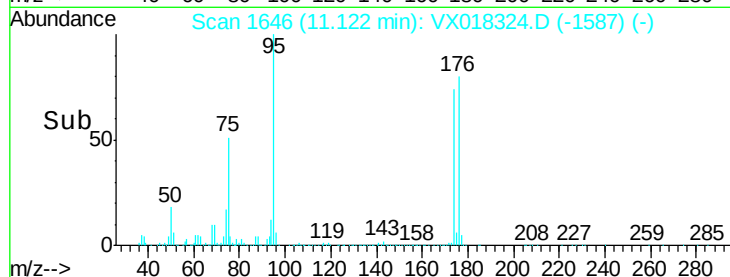
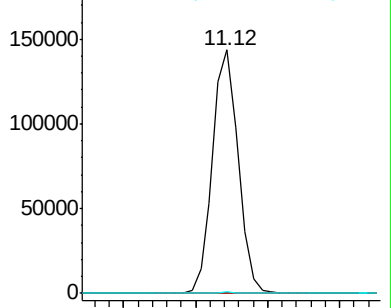
89 0.3 36.6 54.8#



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



#95

Naphthalene

Concen: 0.280 ug/l

RT: 13.82 min Scan# 2089

Delta R.T. 0.01 min

Lab File: VX018324.D

Acq: 09 Sep 2020 15:52

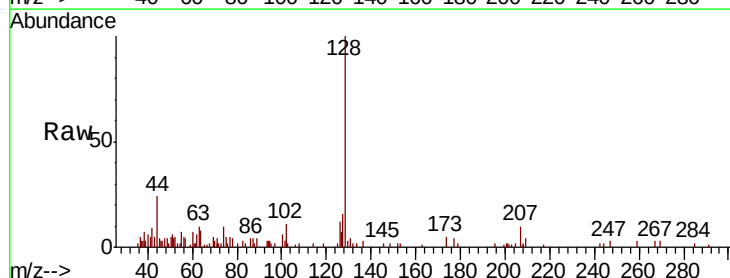
Tgt Ion:128 Resp: 6485

Ion Ratio Lower Upper

128 100

127 21.7 10.2 15.2#

129 12.4 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

