

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062123.D
 Acq On : 23 Mar 2019 18:02
 Operator : VA/AP
 Sample : K2045-13
 Misc : 6.52g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB436-190320-(20-22)

Quant Time: Mar 25 01:29:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	245890	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	400386	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.77	117	305551	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	145665	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	74365	40.66	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	81.32%	
35) Dibromofluoromethane	4.11	113	112293	41.46	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	82.92%	
50) Toluene-d8	7.56	98	291903	36.11	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	72.22%	
62) 4-Bromofluorobenzene	11.41	95	127773	40.94	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	81.88%	

Target Compounds						Qvalue
4) Vinyl Chloride	1.14	62	383693	125.851	ug/l	98
11) Tert butyl alcohol	2.56	59	1636	16.257	ug/l #	76
13) Acrolein	2.00	56	1052	8.693	ug/l #	3
14) Allyl chloride	2.17	41	3002	1.186	ug/l #	53
15) Acrylonitrile	2.95	53	941	2.659	ug/l #	29
16) Acetone	2.24	43	19571	50.843	ug/l	93
18) Methyl Acetate	2.38	43	9469	10.312	ug/l #	56
20) Methylene Chloride	2.18	84	2538	Below Cal		89
21) trans-1,2-Dichloroethene	2.31	96	21556	9.452	ug/l	89
24) 1,1-Dichloroethane	2.87	63	62820	15.789	ug/l	97
25) 2-Butanone	4.34	43	1152	1.434	ug/l #	55
27) cis-1,2-Dichloroethene	3.47	96	415041	137.342	ug/l	95
29) Tetrahydrofuran	4.14	42	413	1.182	ug/l #	33
31) Cyclohexane	3.69	56	7202	1.733	ug/l #	83
37) Ethyl Acetate	4.01	43	12567	7.540	ug/l #	59
39) Methylcyclohexane	5.46	83	53878	12.173	ug/l	92
40) Benzene	4.64	78	109708	10.731	ug/l	99
41) Methacrylonitrile	4.67	41	6265	7.104	ug/l #	47
42) 1,2-Dichloroethane	4.94	62	14599	6.038	ug/l	96
49) 1,4-Dioxane	6.90	88	70	6.942	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	4355	3.224	ug/l #	61
52) Toluene	7.62	92	30928	5.223	ug/l	99
56) Ethyl methacrylate	8.62	69	5556	2.770	ug/l #	69
59) 2-Hexanone	9.51	43	1301	1.314	ug/l	85
65) Chlorobenzene	9.80	112	2953723	516.650	ug/l #	88
67) Ethyl Benzene	9.90	91	34286	3.448	ug/l	98
68) m/p-Xylenes	10.13	106	4713	1.268	ug/l	90
69) o-Xylene	10.71	106	18891	4.854	ug/l	88
73) Isopropylbenzene	11.13	105	17433	1.701	ug/l	98
74) N-amyl acetate	11.39	43	8204	3.359	ug/l #	75
75) 1,1,2,2-Tetrachloroethane	11.68	83	8454	4.804	ug/l #	41
78) n-propylbenzene	11.59	91	43234	3.632	ug/l	95
79) 2-Chlorotoluene	11.72	91	13008	1.966	ug/l	84
83) tert-Butylbenzene	12.13	119	12094	1.370	ug/l	79

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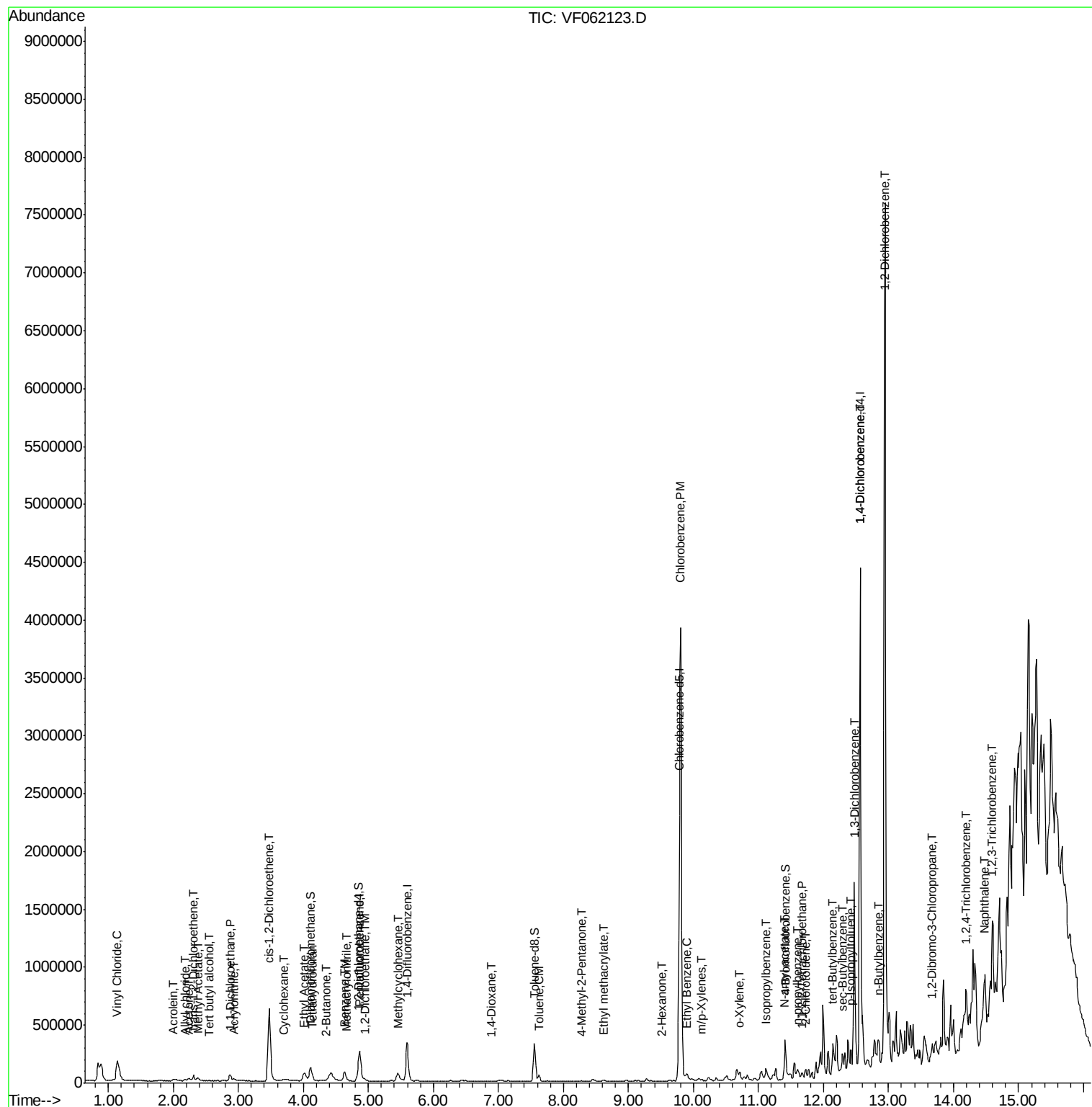
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
85) sec-Butylbenzene	12.31	105	31710	2.777	ug/l #	71
86) p-Isopropyltoluene	12.43	119	26470	2.676	ug/l	95
87) 1,3-Dichlorobenzene	12.48	146	709730	152.547	ug/l	94
88) 1,4-Dichlorobenzene	12.56	146	1707551	376.119	ug/l	89
89) n-Butylbenzene	12.84	91	35125	3.722	ug/l	92
91) 1,2-Dichlorobenzene	12.95	146	3119256	714.004	ug/l	83
92) 1,2-Dibromo-3-Chloropropan	13.66	75	1543	5.786	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.20	180	154049	50.595	ug/l	95
95) Naphthalene	14.47	128	6624	1.241	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.60	180	26605	9.335	ug/l	88

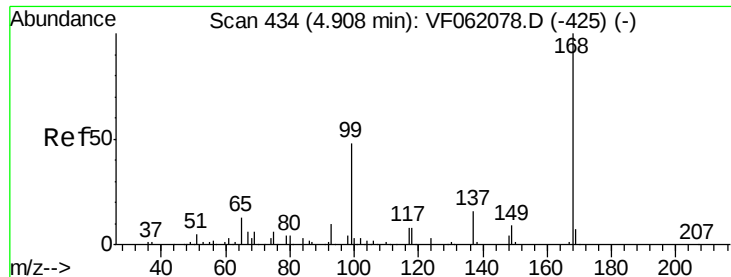
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

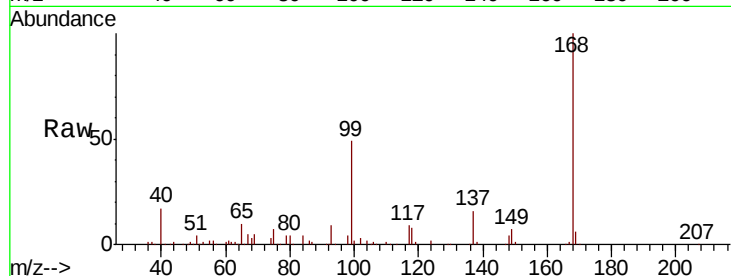
WP022SB436-190320-(20-22)

Tot Ion:168 Resp: 245890

Ion Ratio Lower Upper

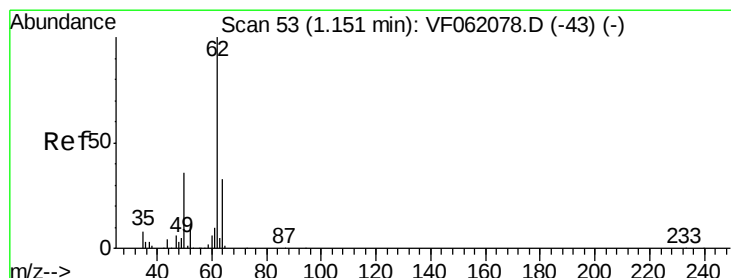
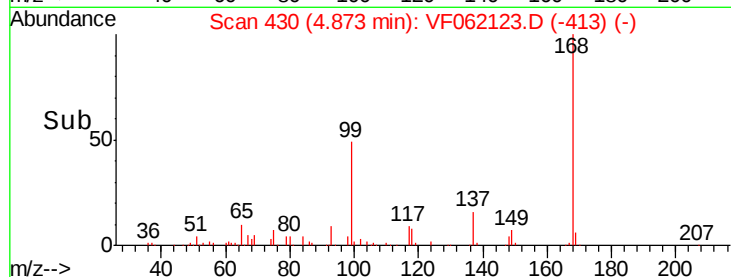
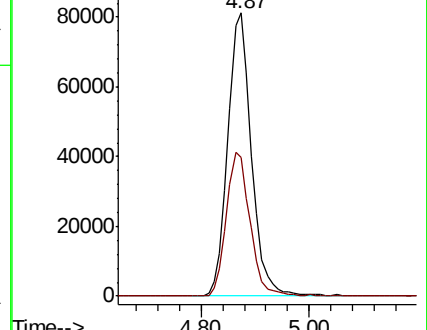
168 100

99 49.0 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#4

Vinyl Chloride

Concen: 125.851 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF062123.D

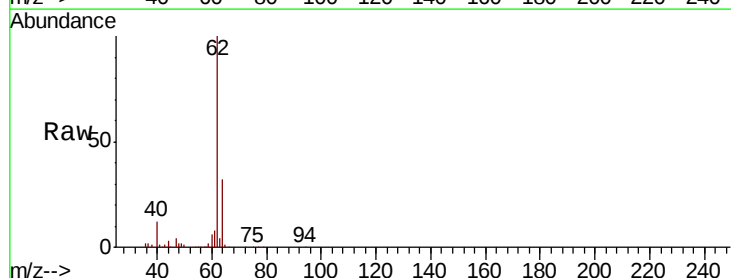
Acq: 23 Mar 2019 18:02

Tgt Ion: 62 Resp: 383693

Ion Ratio Lower Upper

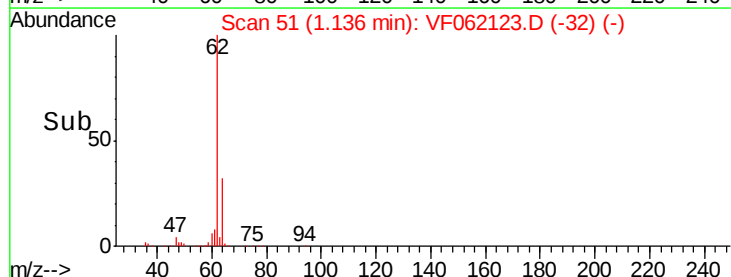
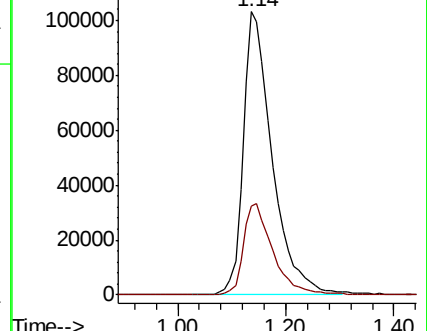
62 100

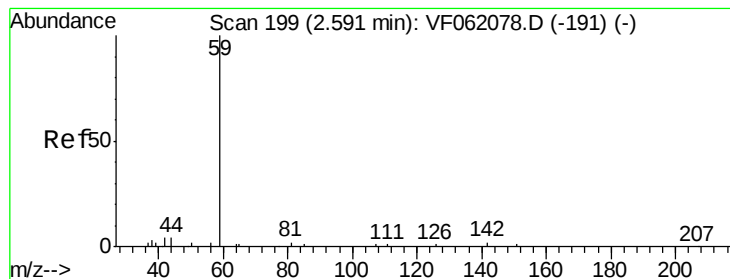
64 31.5 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#11

Tert butyl alcohol

Concen: 16.257 ug/l

RT: 2.56 min Scan# 195

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

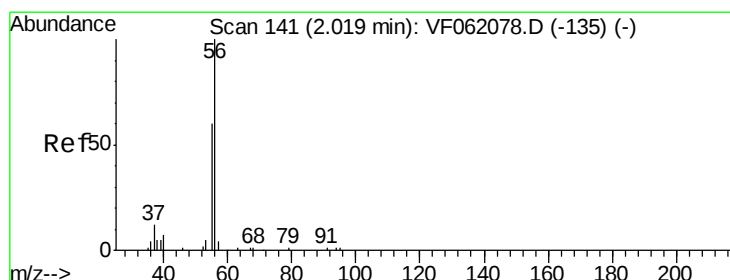
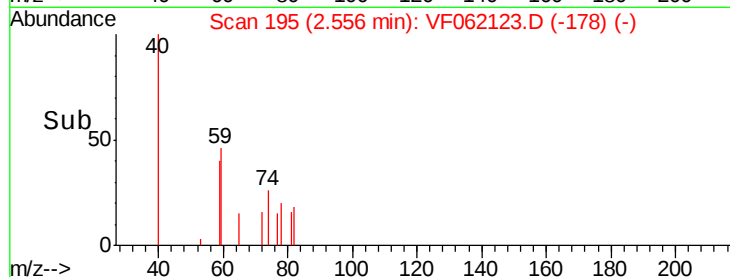
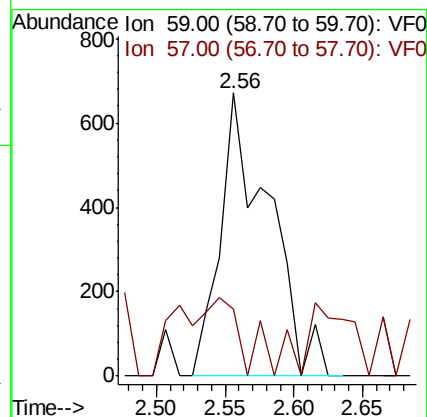
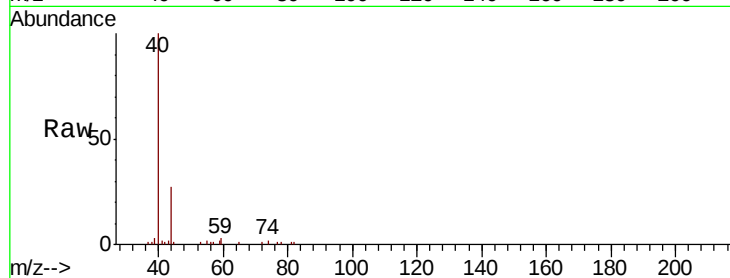
WP022SB436-190320-(20-22)

Tot Ion: 59 Resp: 1636

Ion Ratio Lower Upper

59 100

57 23.5 11.0 16.4#



#13

Acrolein

Concen: 8.693 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062123.D

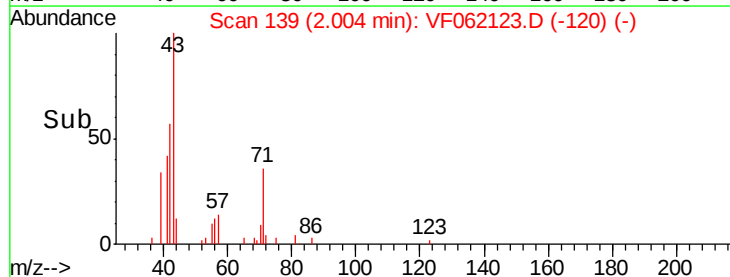
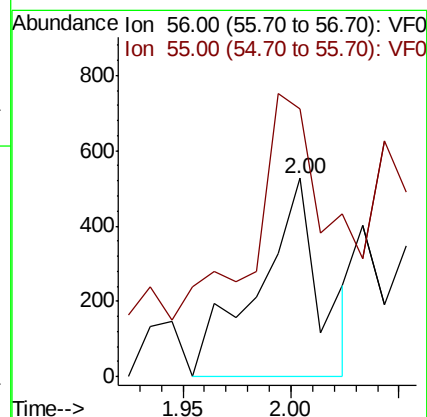
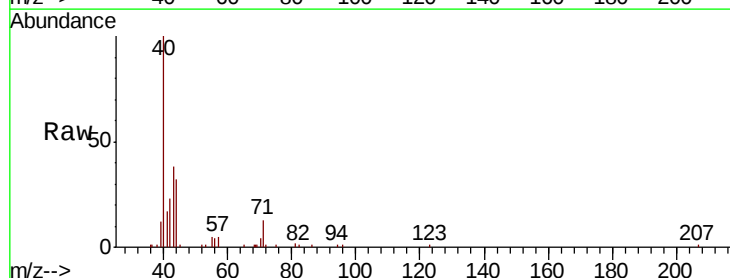
Acq: 23 Mar 2019 18:02

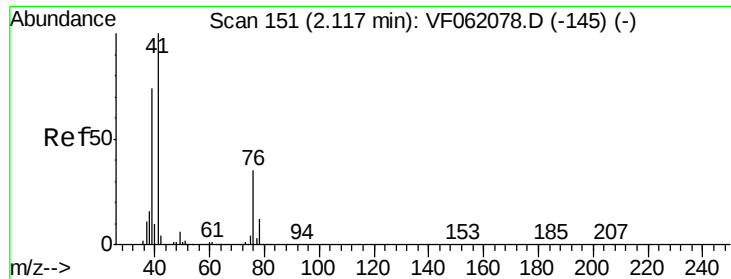
Tgt Ion: 56 Resp: 1052

Ion Ratio Lower Upper

56 100

55 135.0 49.0 73.4#





#14

Allvl chloride

Concen: 1.186 ug/l

RT: 2.17 min Scan# 156

Delta R.T. 0.05 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

WP022SB436-190320-(20-22)

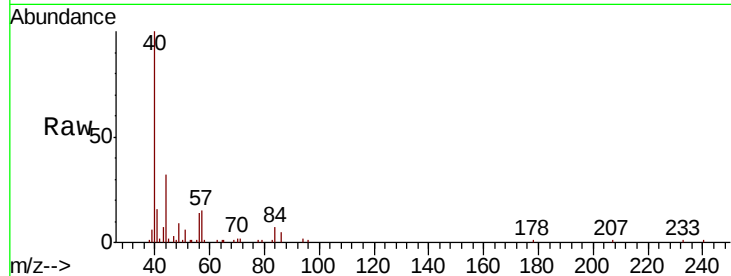
Tot Ion: 41 Resp: 3002

Ion Ratio Lower Upper

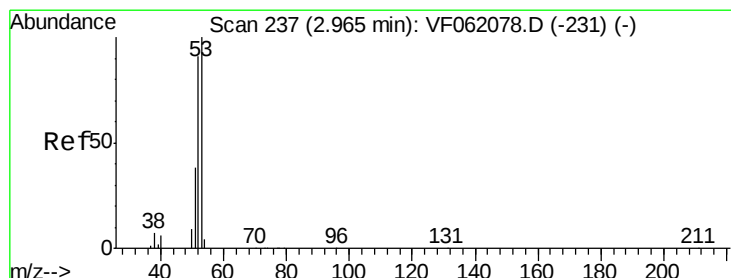
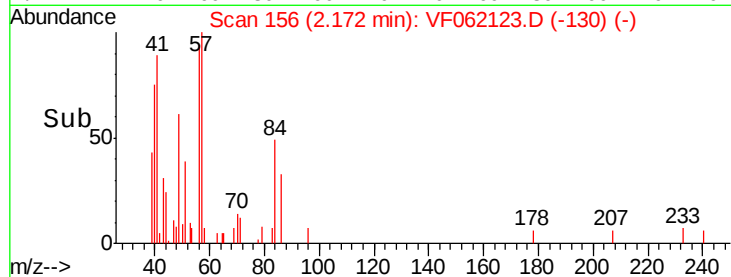
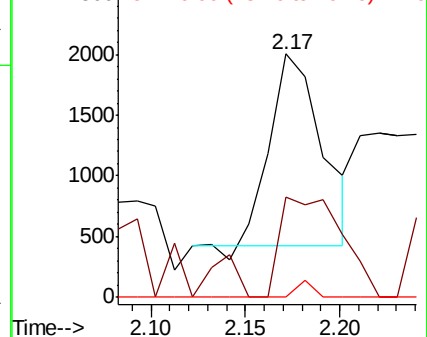
41 100

39 41.0 59.8 89.8#

76 0.0 30.0 45.0#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 76.00 (75.70 to 76.70): VF0



#15

Acrylonitrile

Concen: 2.659 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

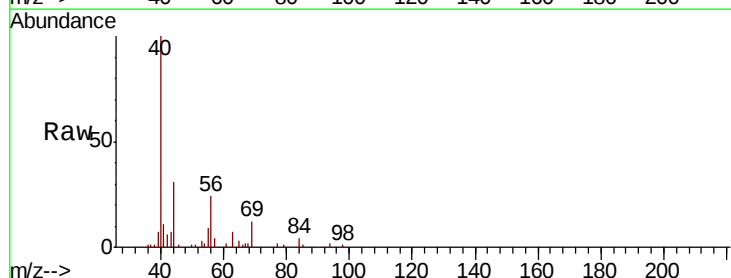
Tgt Ion: 53 Resp: 941

Ion Ratio Lower Upper

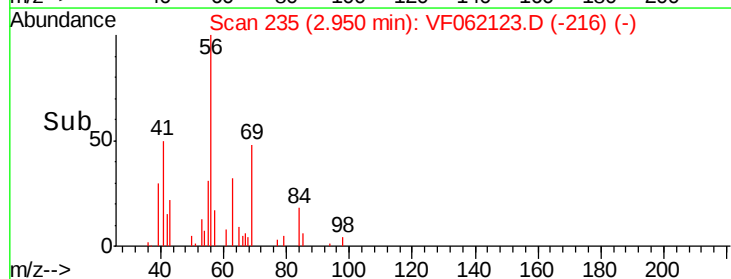
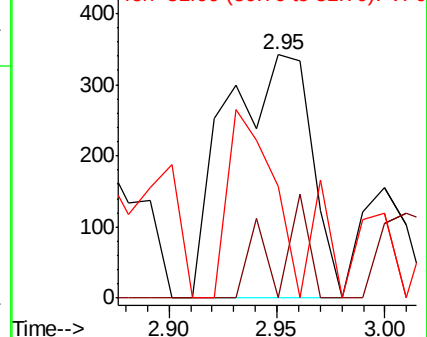
53 100

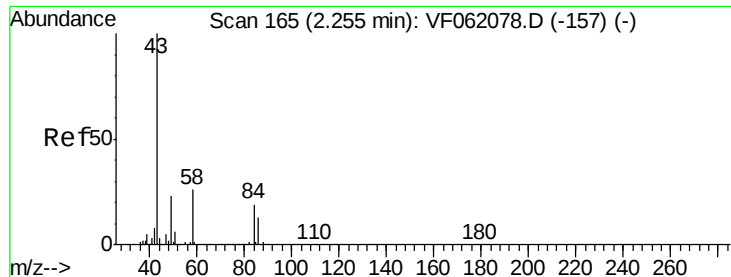
52 0.0 72.3 108.5#

51 46.2 30.4 45.6#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 50.843 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

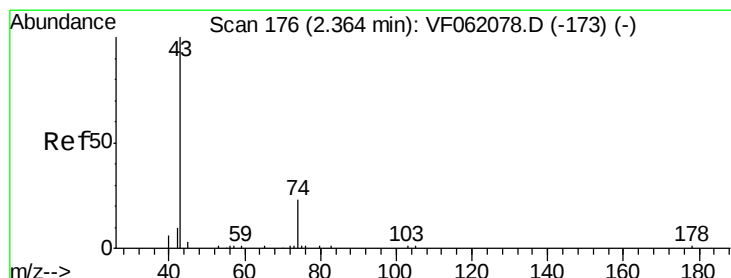
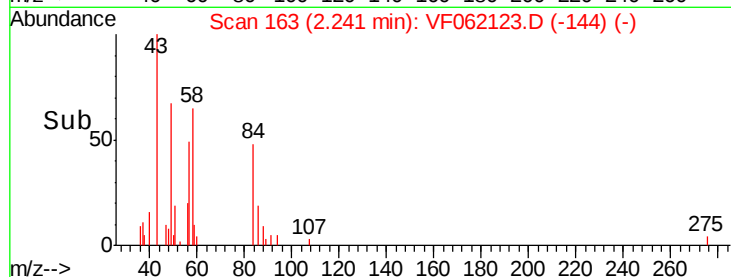
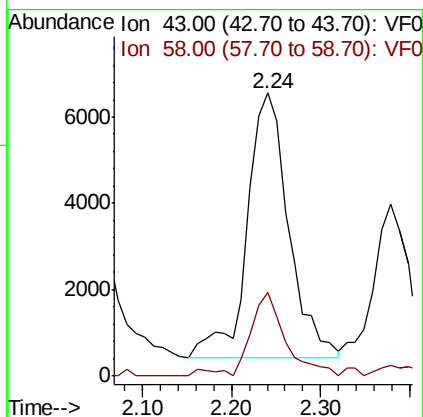
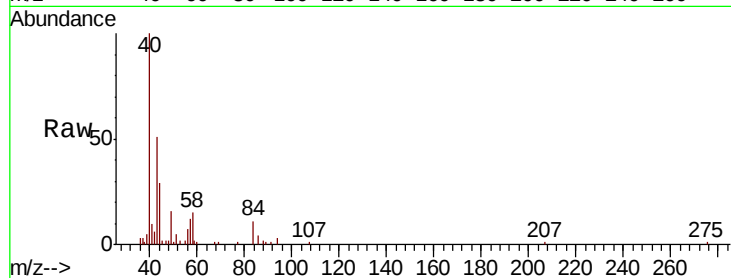
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Tot Ion: 43 Resp: 19571

Ion Ratio Lower Upper

43 100

58 29.6 20.8 31.2



#18

Methyl Acetate

Concen: 10.312 ug/l

RT: 2.38 min Scan# 177

Delta R.T. 0.02 min

Lab File: VF062123.D

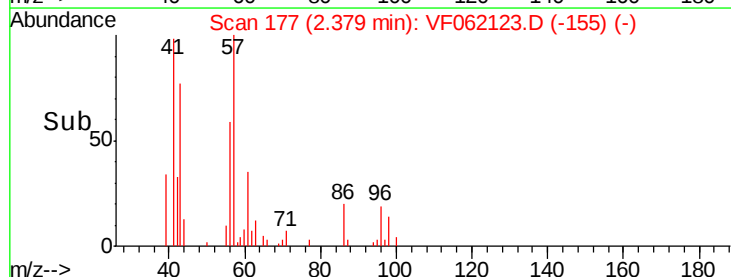
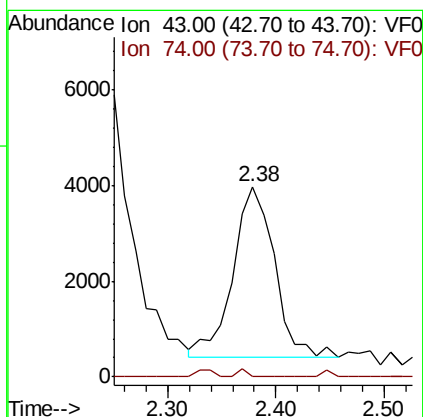
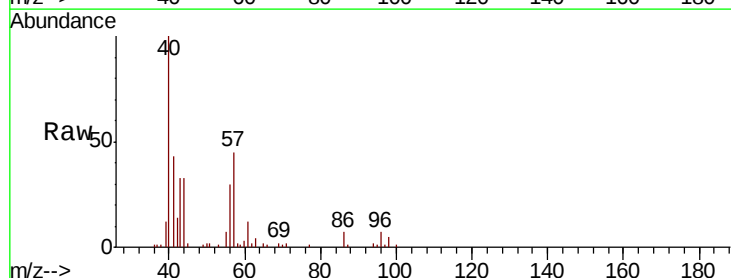
Acq: 23 Mar 2019 18:02

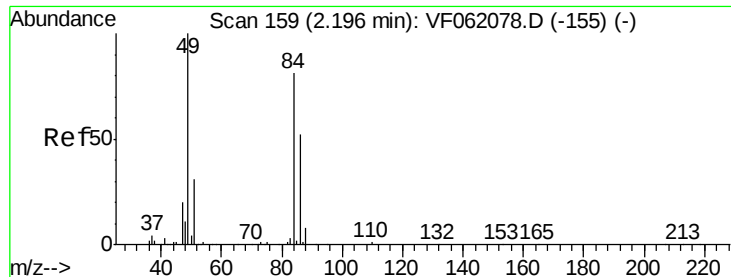
Tgt Ion: 43 Resp: 9469

Ion Ratio Lower Upper

43 100

74 0.0 16.3 24.5#

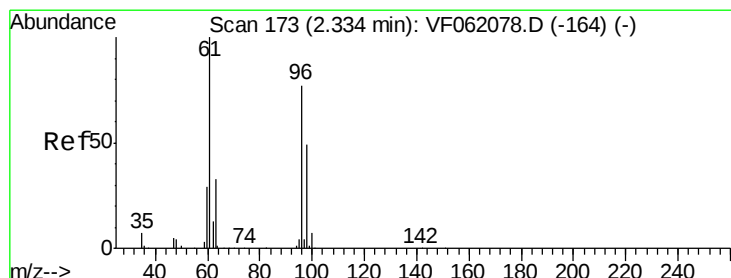
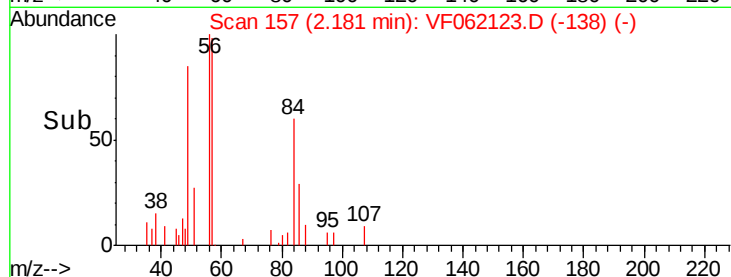
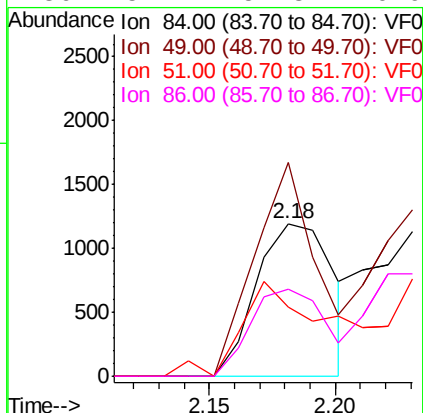
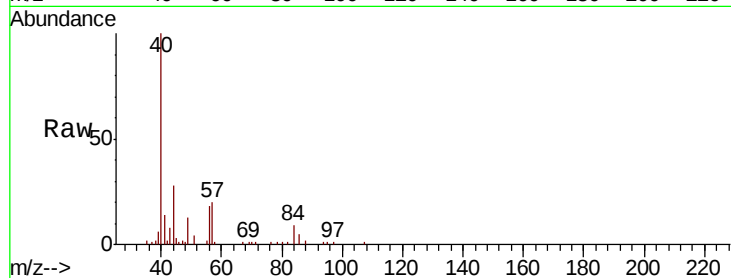




#20
Methylene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

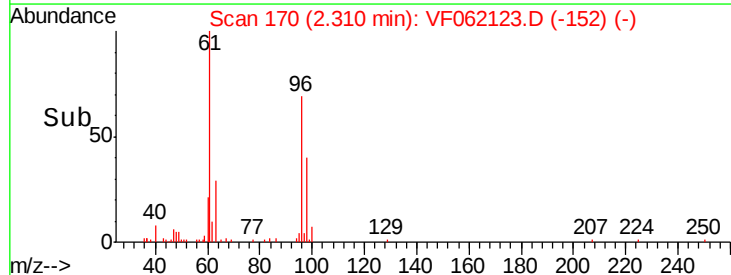
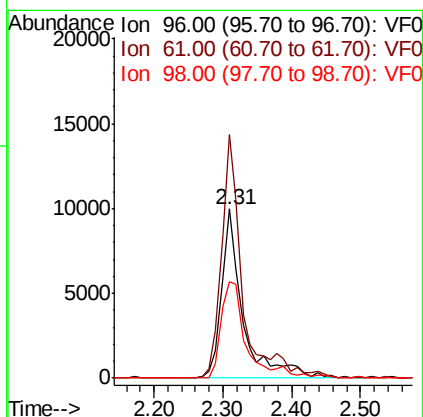
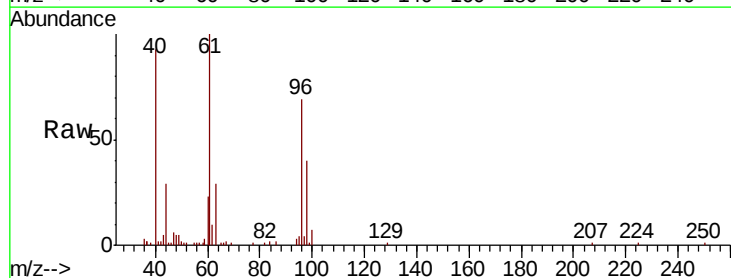
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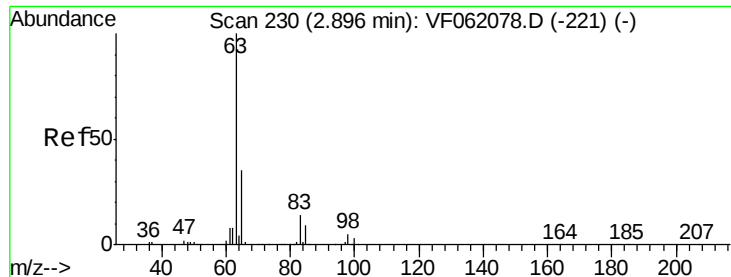
Tot Ion:	84	Resp:	2538
Ion	Ratio	Lower	Upper
84	100		
49	140.2	100.4	150.6
51	45.3	31.0	46.6
86	57.4	51.3	76.9



#21
trans-1,2-Dichloroethene
Concen: 9.452 ug/l
RT: 2.31 min Scan# 170
Delta R.T. -0.02 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

Tgt Ion:	96	Resp:	21556
Ion	Ratio	Lower	Upper
96	100		
61	144.2	104.5	156.7
98	57.3	51.2	76.8





#24

1,1-Dichloroethane

Concen: 15.789 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.02 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

WP022SB436-190320-(20-22)

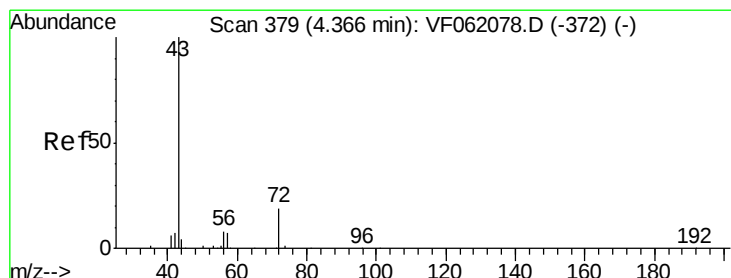
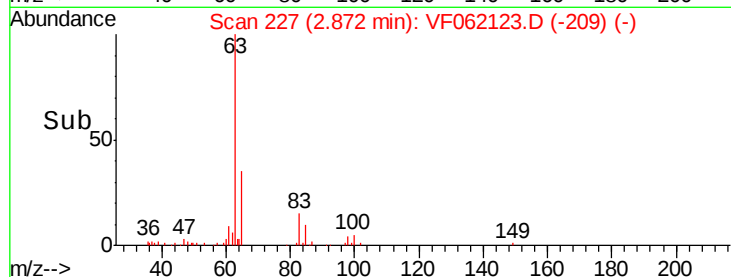
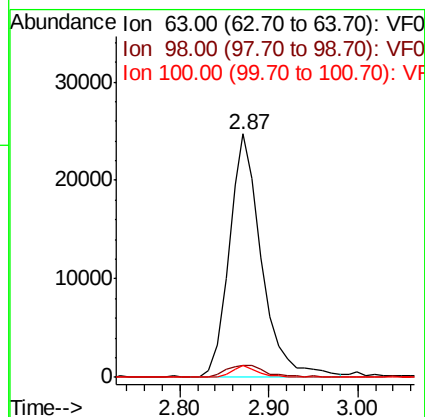
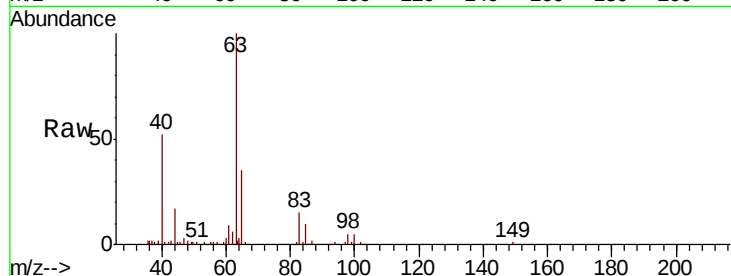
Tot Ion: 63 Resp: 62820

Ion Ratio Lower Upper

63 100

98 4.7 2.7 8.1

100 4.6 1.7 5.1



#25

2-Butanone

Concen: 1.434 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.02 min

Lab File: VF062123.D

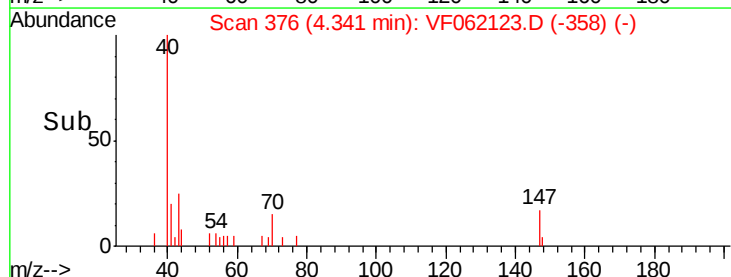
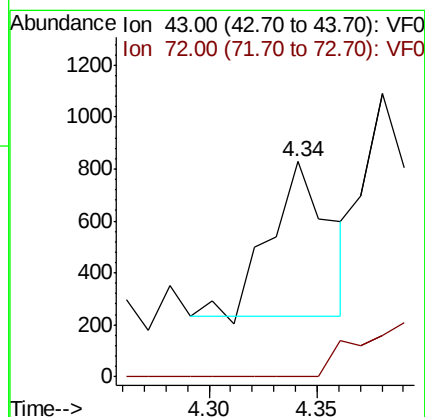
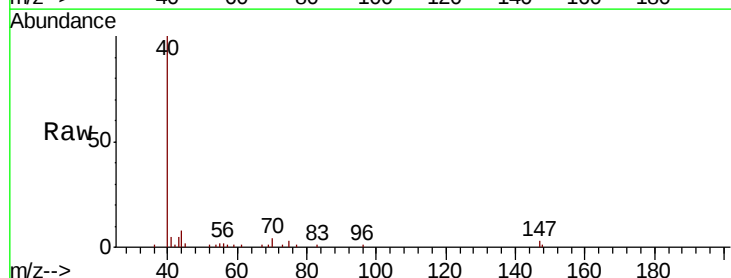
Acq: 23 Mar 2019 18:02

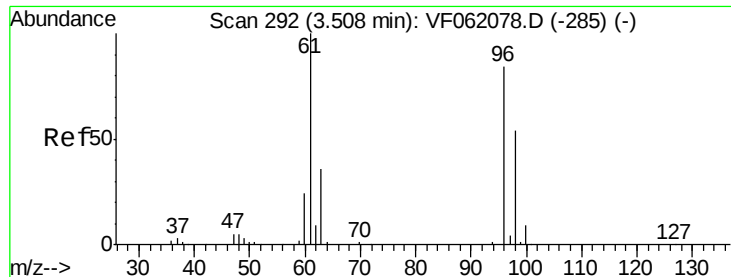
Tgt Ion: 43 Resp: 1152

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



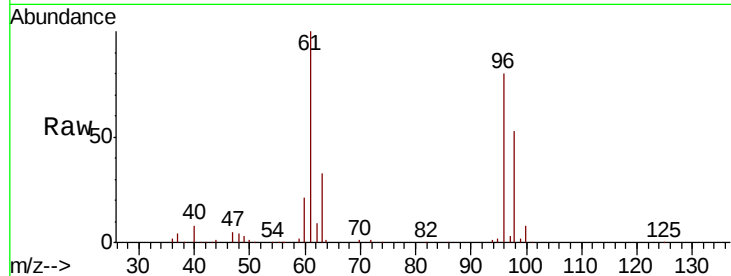


#27

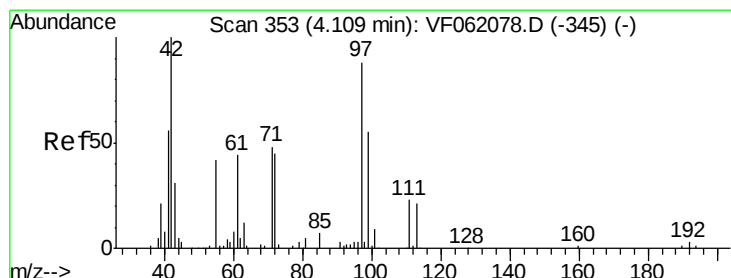
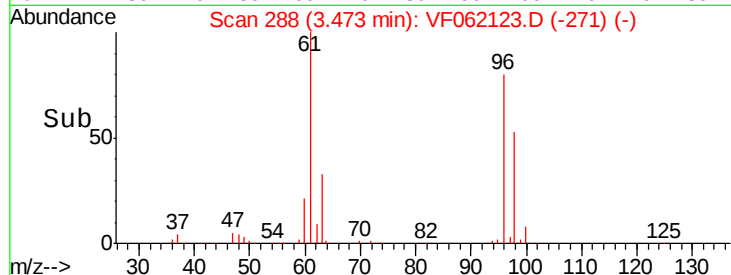
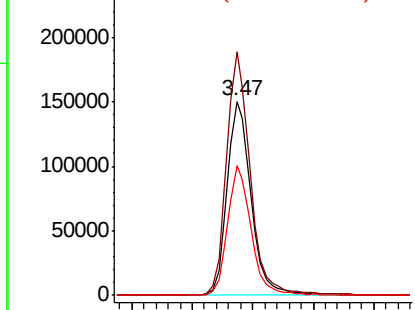
cis-1,2-Dichloroethene
 Concen: 137.342 ug/l
 RT: 3.47 min Scan# 288
 Delta R.T. -0.03 min
 Lab File: VF062123.D
 Acq: 23 Mar 2019 18:02

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB436-190320-(20-22)

Tot Ion: 96 Resp: 415041
 Ion Ratio Lower Upper
 96 100
 61 125.5 0.0 239.0
 98 67.1 0.0 128.2



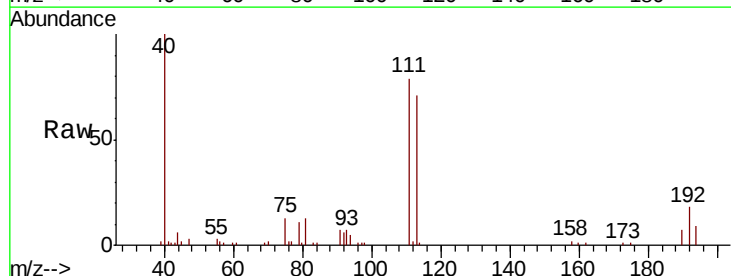
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



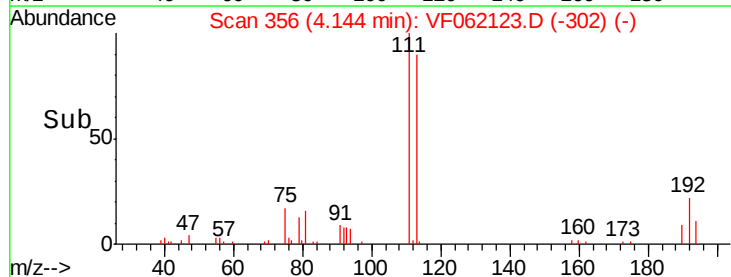
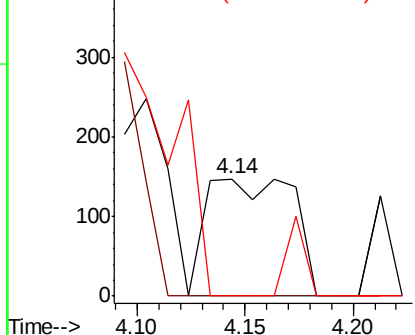
#29

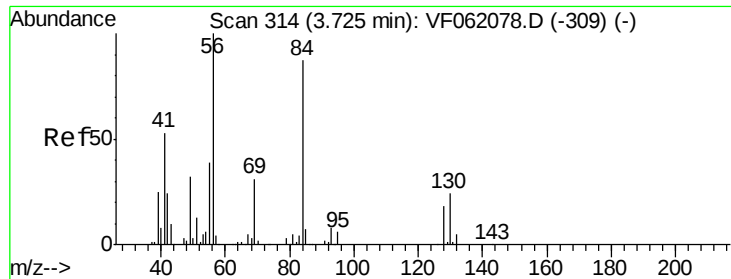
Tetrahydrofuran
 Concen: 1.182 ug/l
 RT: 4.14 min Scan# 356
 Delta R.T. 0.03 min
 Lab File: VF062123.D
 Acq: 23 Mar 2019 18:02

Tgt Ion: 42 Resp: 413
 Ion Ratio Lower Upper
 42 100
 72 0.0 33.3 49.9#
 71 0.0 35.0 52.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0
 Ion 72.00 (71.70 to 72.70): VF0
 Ion 71.00 (70.70 to 71.70): VF0

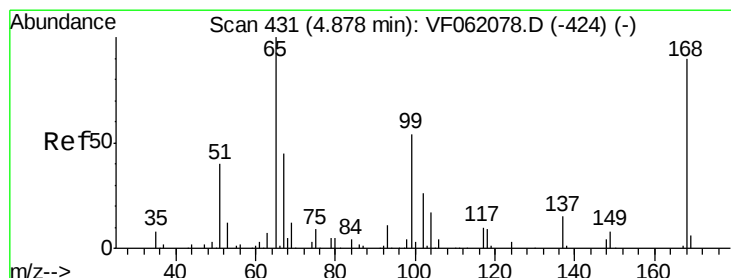
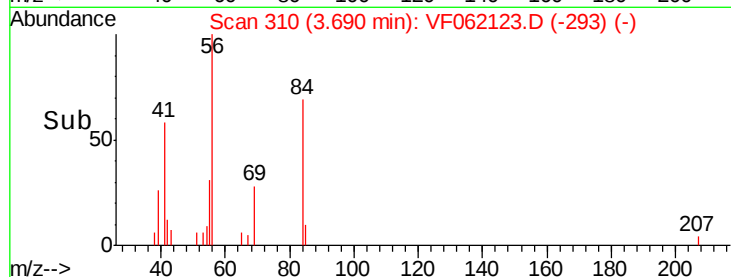
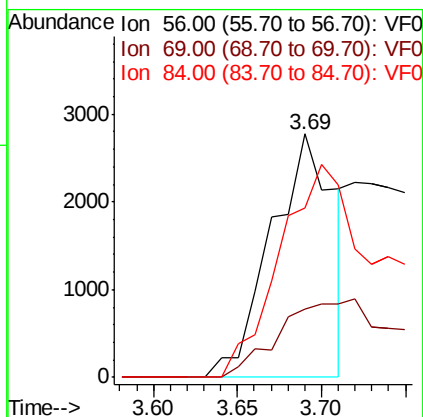
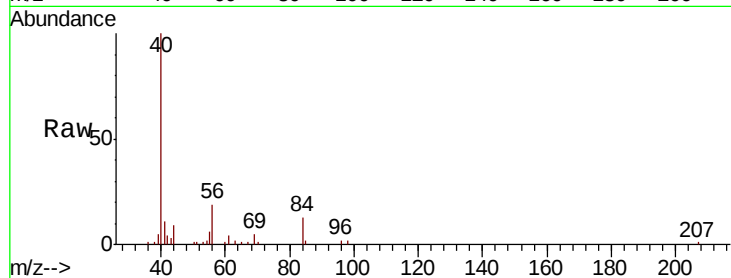




#31
Cyclohexane
Concen: 1.733 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.03 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

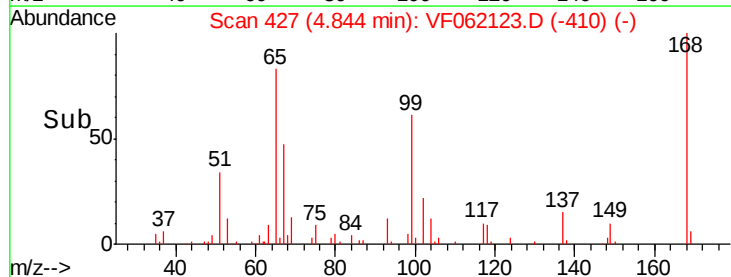
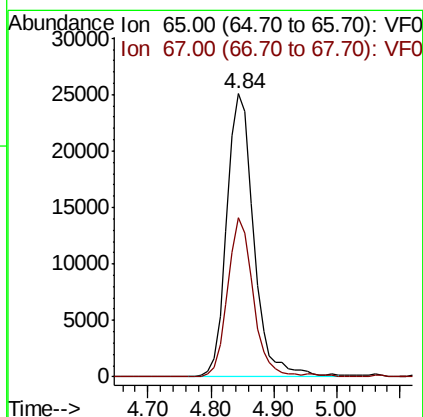
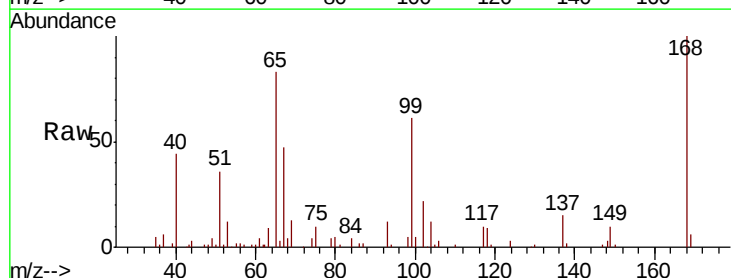
Instrument :
MSVOA_F
ClientSampleId :
WP022SB436-190320-(20-22)

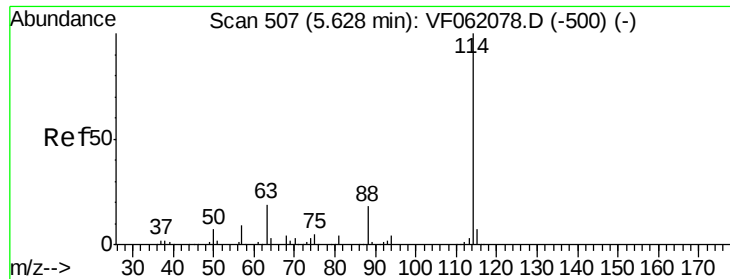
Tot Ion: 56 Resp: 7202
Ion Ratio Lower Upper
56 100
69 28.3 25.9 38.9
84 69.3 71.1 106.7#



#33
1,2-Dichloroethane-d4
Concen: 40.660 ug/l
RT: 4.84 min Scan# 427
Delta R.T. -0.03 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

Tgt Ion: 65 Resp: 74365
Ion Ratio Lower Upper
65 100
67 56.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

WP022SB436-190320-(20-22)

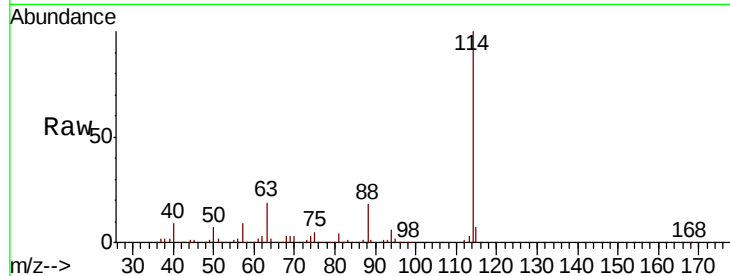
Tot Ion:114 Resp: 400386

Ion Ratio Lower Upper

114 100

63 19.4 0.0 37.8

88 17.8 0.0 36.4



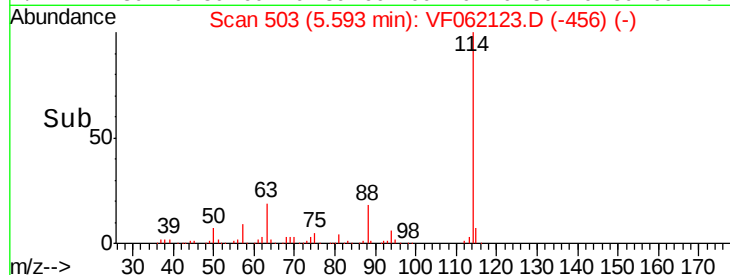
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

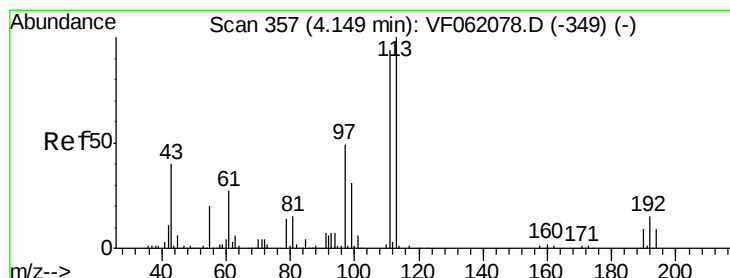
Ion 88.00 (87.70 to 88.70): VF0

5.59

Time-->



Time-->



#35

Dibromofluoromethane

Concen: 41.460 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

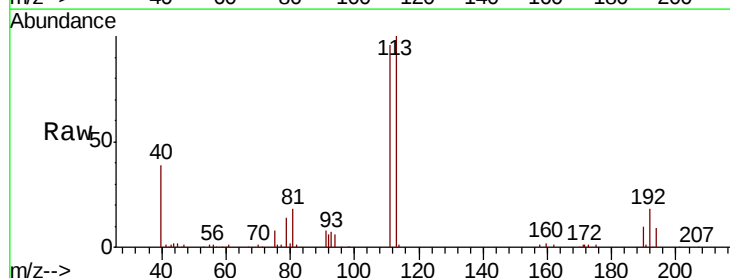
Tgt Ion:113 Resp: 112293

Ion Ratio Lower Upper

113 100

111 96.3 75.4 113.0

192 17.8 12.3 18.5



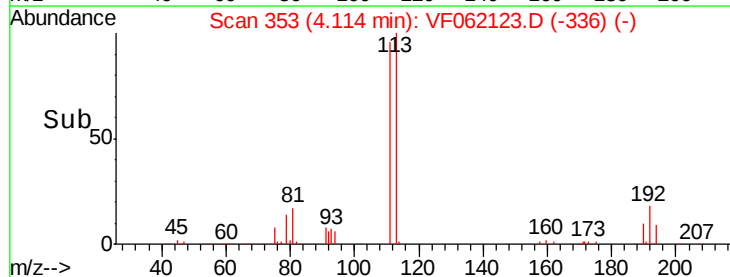
Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

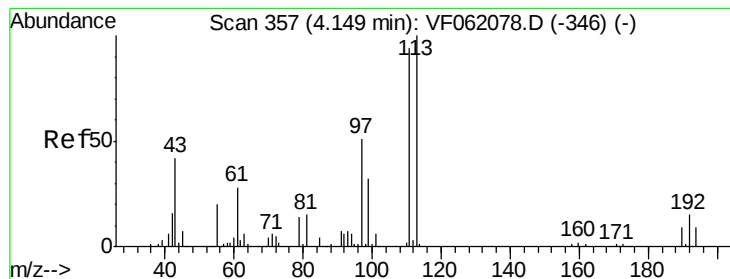
Ion 192.00 (191.70 to 192.70): V

4.11

Time-->



Time-->



#37

Ethyl Acetate

Concen: 7.540 ug/l

RT: 4.01 min Scan# 342

Delta R.T. -0.14 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

WP022SB436-190320-(20-22)

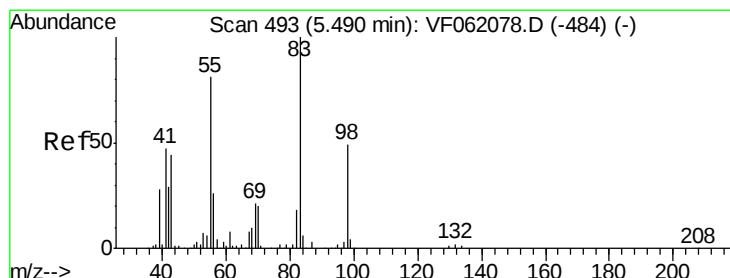
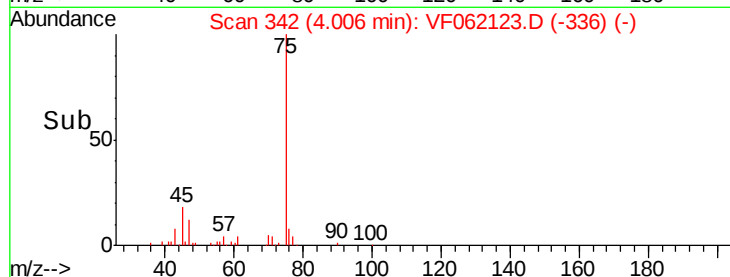
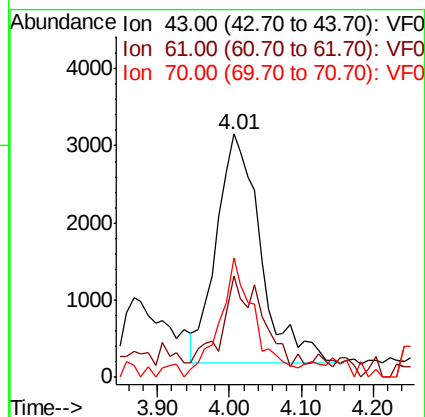
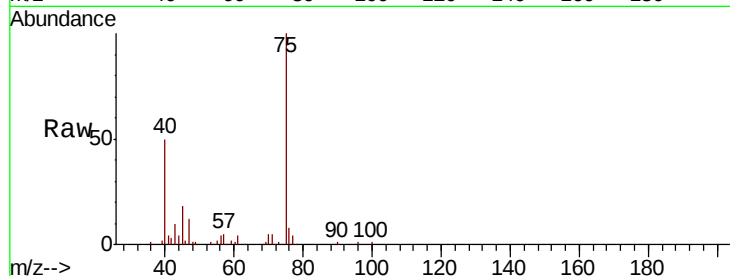
Tot Ion: 43 Resp: 12567

Ion Ratio Lower Upper

43 100

61 41.8 53.6 80.4#

70 49.1 9.0 13.6#



#39

Methylcyclohexane

Concen: 12.173 ug/l

RT: 5.46 min Scan# 489

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

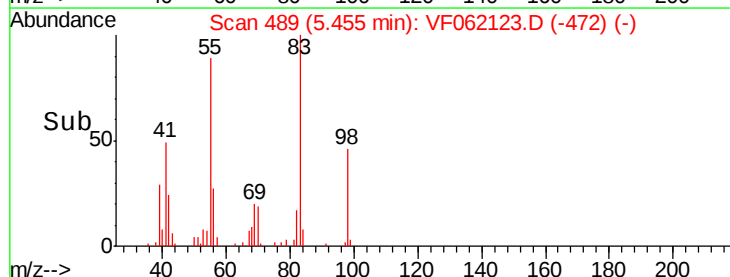
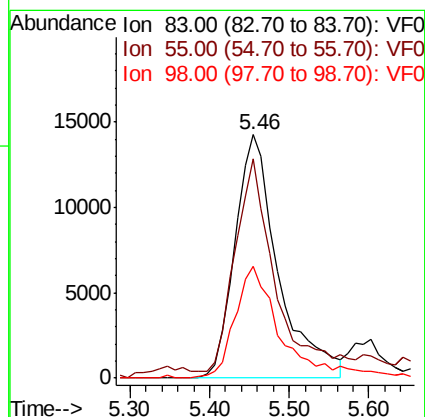
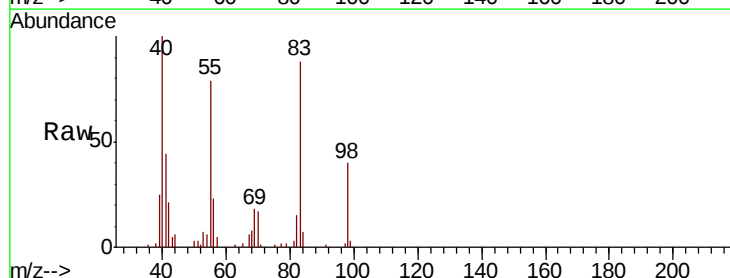
Tgt Ion: 83 Resp: 53878

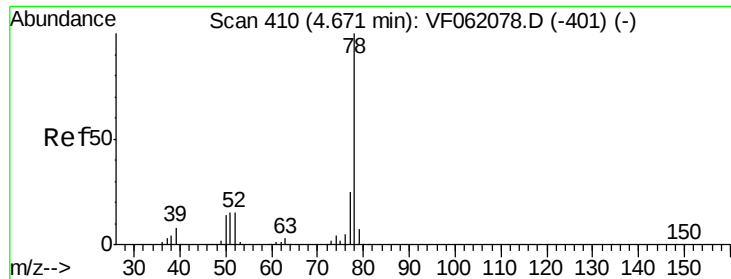
Ion Ratio Lower Upper

83 100

55 89.8 64.5 96.7

98 46.1 39.1 58.7





#40

Benzene

Concen: 10.731 ug/l

RT: 4.64 min Scan# 406

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

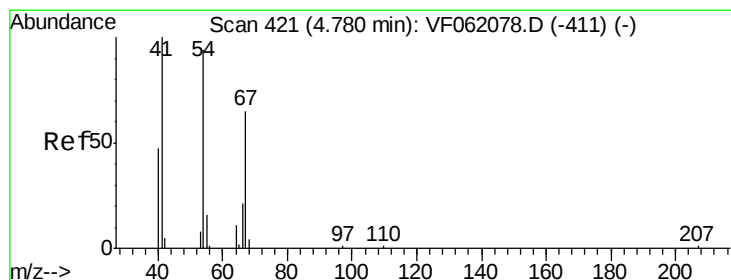
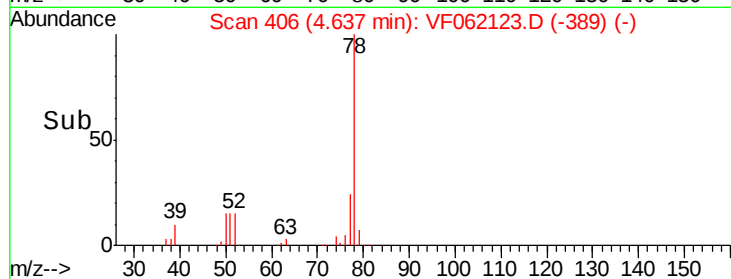
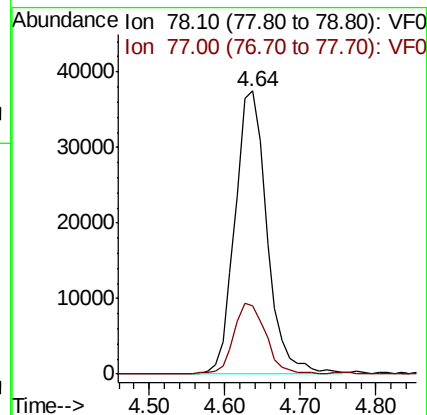
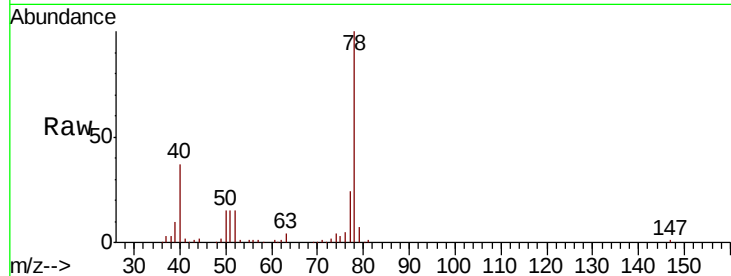
WP022SB436-190320-(20-22)

Tot Ion: 78 Resp: 109708

Ion Ratio Lower Upper

78 100

77 24.1 19.8 29.6



#41

Methacrylonitrile

Concen: 7.104 ug/l

RT: 4.67 min Scan# 409

Delta R.T. -0.11 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Tgt Ion: 41 Resp: 6265

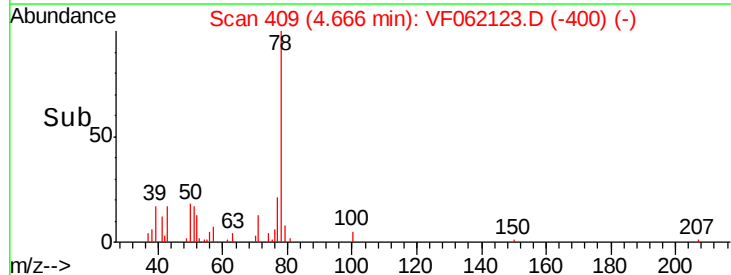
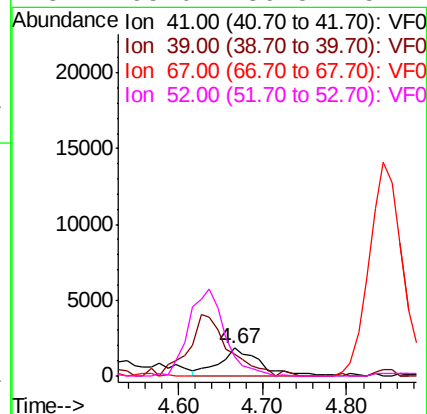
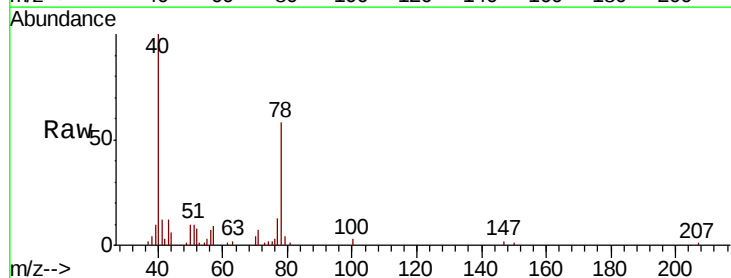
Ion Ratio Lower Upper

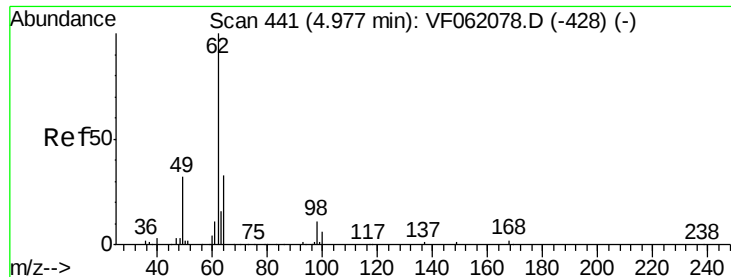
41 100

39 78.3 43.5 65.3#

67 0.0 51.6 77.4#

52 68.0 36.5 54.7#





#42

1,2-Dichloroethane

Concen: 6.038 ug/l

RT: 4.94 min Scan# 437

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

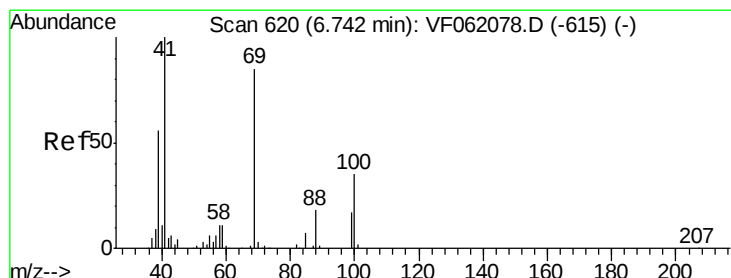
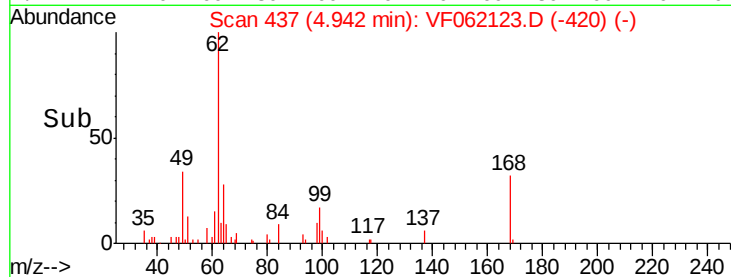
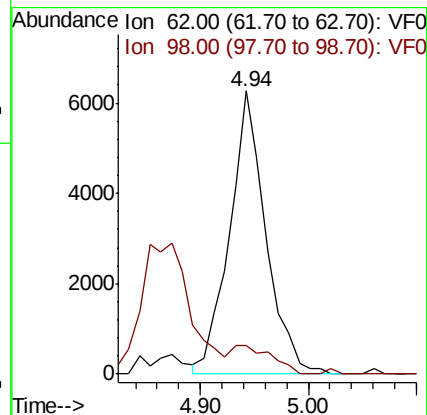
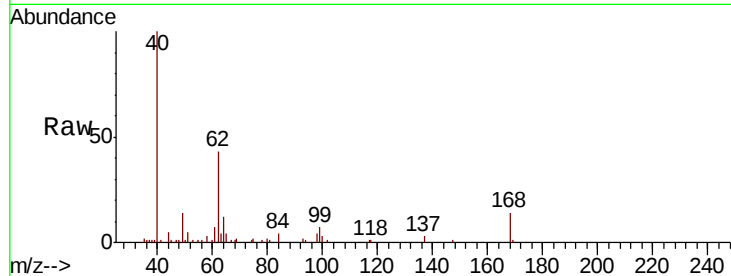
WP022SB436-190320-(20-22)

Tot Ion: 62 Resp: 14599

Ion Ratio Lower Upper

62 100

98 10.2 0.0 23.2



#49

1,4-Dioxane

Concen: 6.942 ug/l

RT: 6.90 min Scan# 636

Delta R.T. 0.16 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

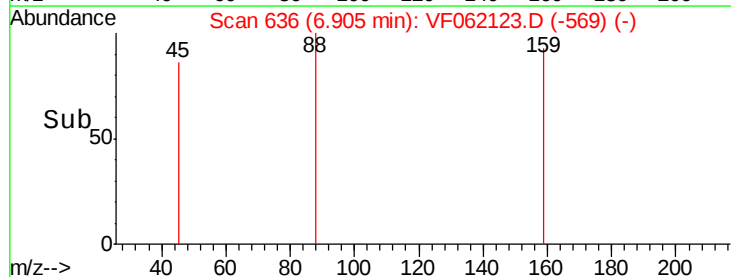
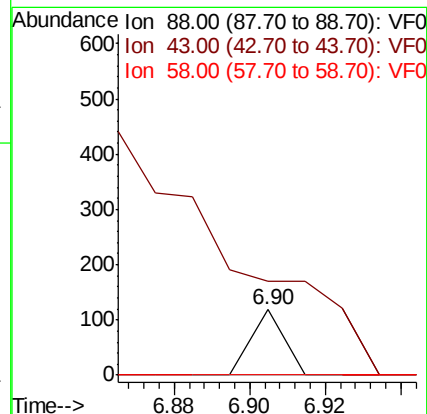
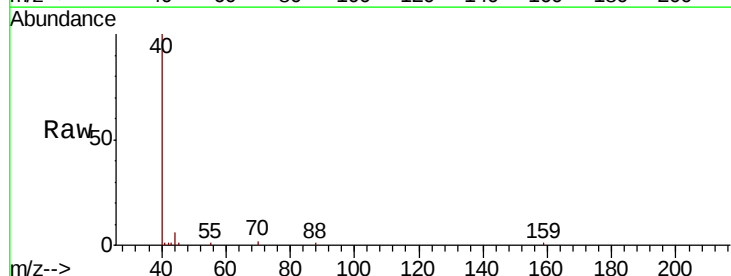
Tgt Ion: 88 Resp: 70

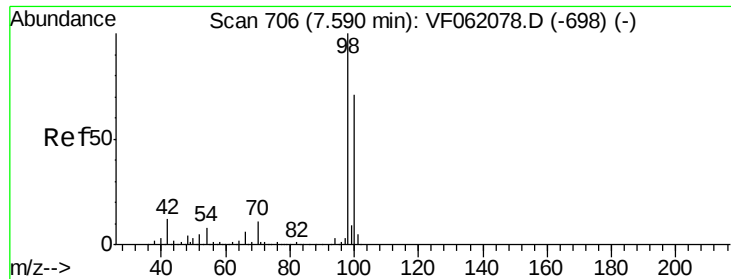
Ion Ratio Lower Upper

88 100

43 144.1 35.0 52.4#

58 0.0 49.9 74.9#

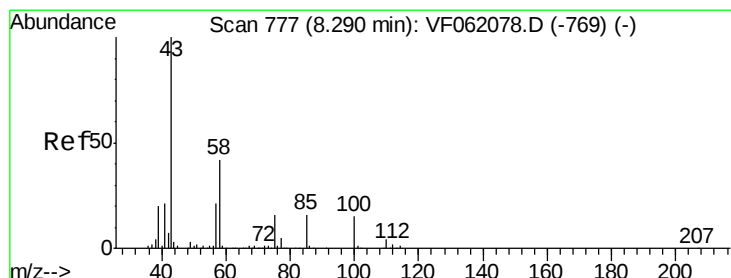
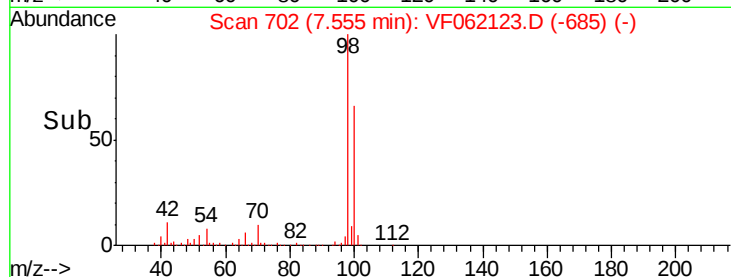
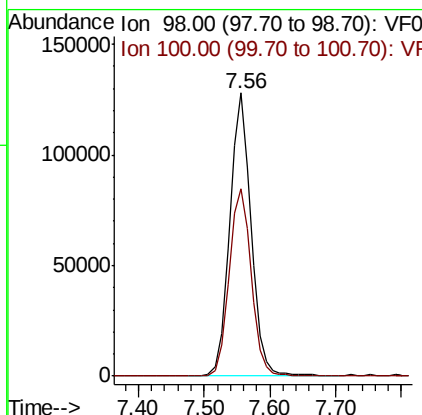
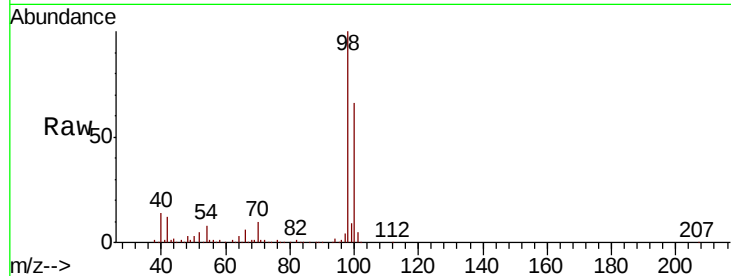




#50
Toluene-d8
Concen: 36.105 ug/l
RT: 7.56 min Scan# 702
Delta R.T. -0.03 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

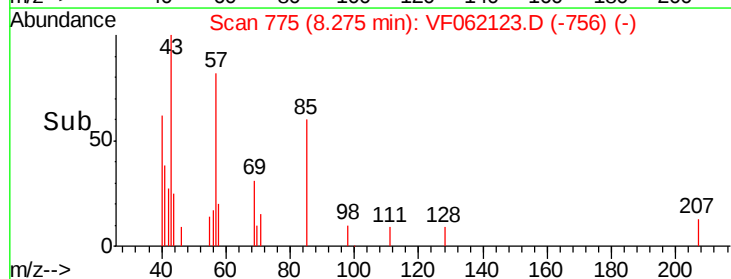
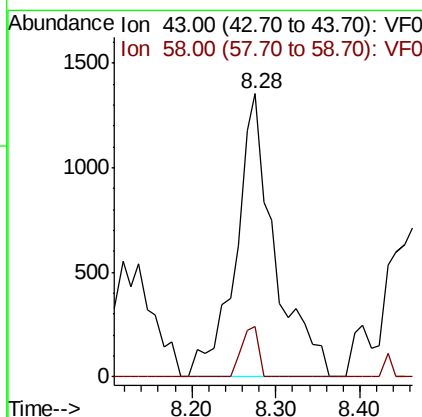
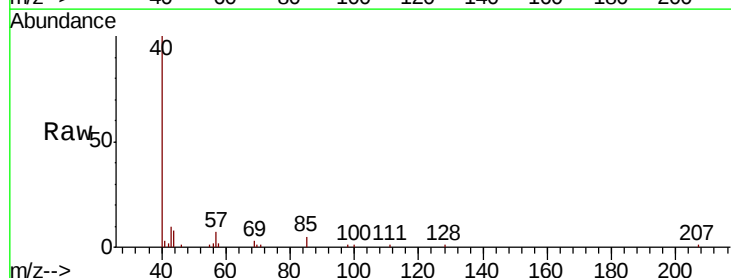
Instrument :
MSVOA_F
ClientSampleId :
WP022SB436-190320-(20-22)

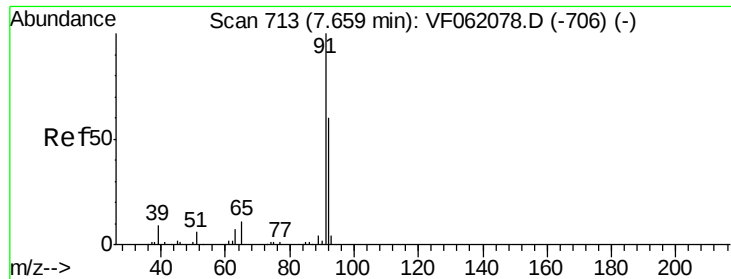
Tot Ion: 98 Resp: 291903
Ion Ratio Lower Upper
98 100
100 66.4 57.0 85.6



#51
4-Methyl-2-Pentanone
Concen: 3.224 ug/l
RT: 8.28 min Scan# 775
Delta R.T. -0.01 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

Tgt Ion: 43 Resp: 4355
Ion Ratio Lower Upper
43 100
58 17.8 33.8 50.8#





#52

Toluene

Concen: 5.223 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

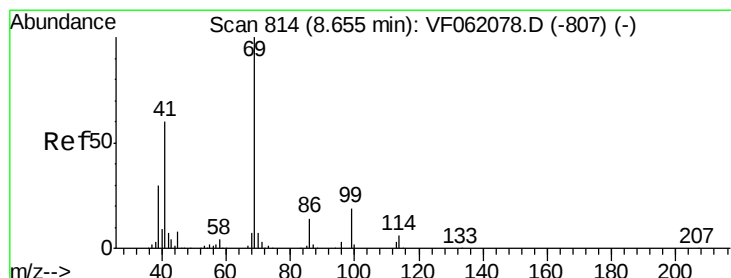
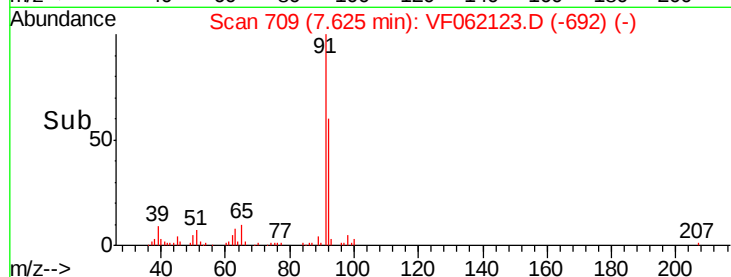
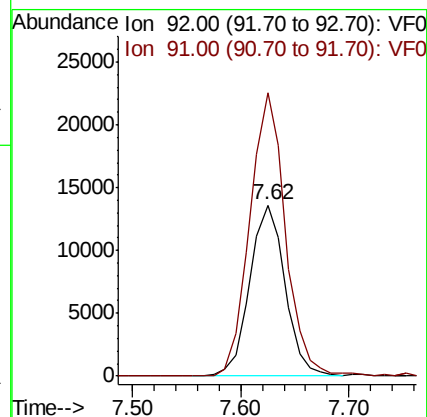
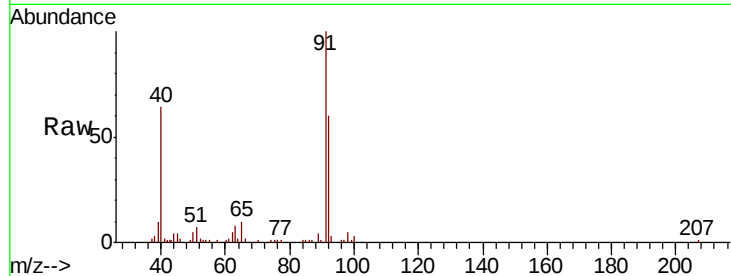
WP022SB436-190320-(20-22)

Tot Ion: 92 Resp: 30928

Ion Ratio Lower Upper

92 100

91 165.7 134.1 201.1



#56

Ethyl methacrylate

Concen: 2.770 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

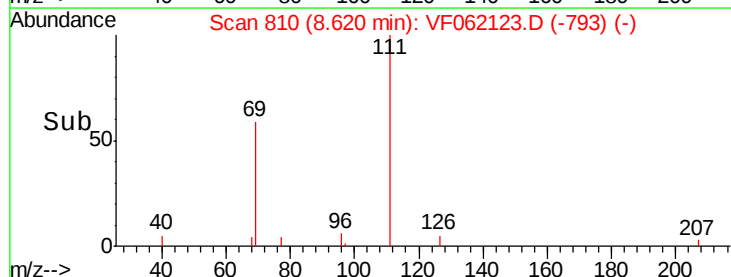
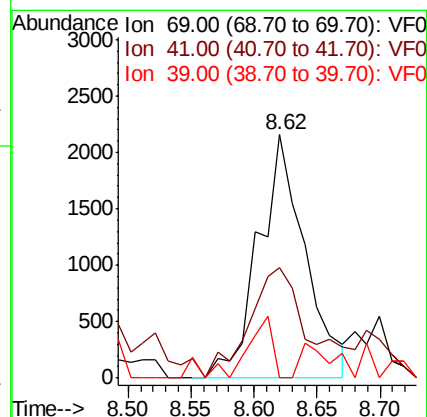
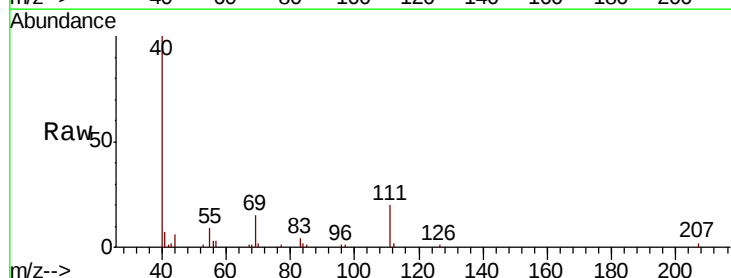
Tgt Ion: 69 Resp: 5556

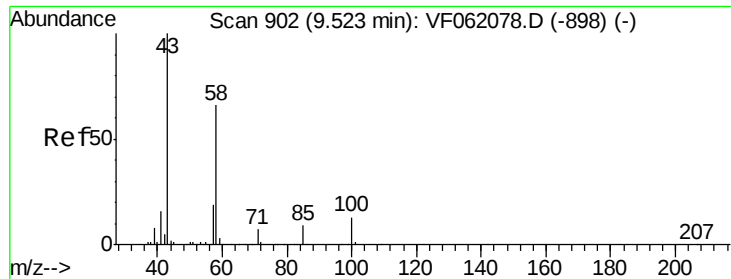
Ion Ratio Lower Upper

69 100

41 45.5 48.2 72.2#

39 0.0 24.0 36.0#

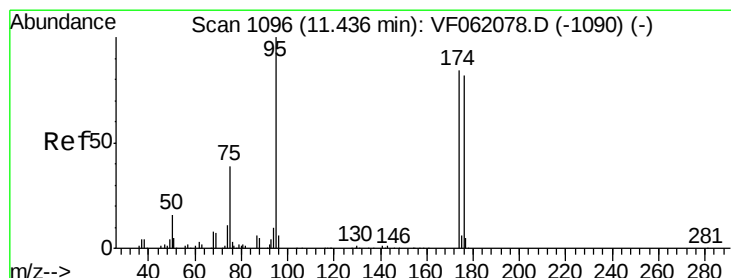
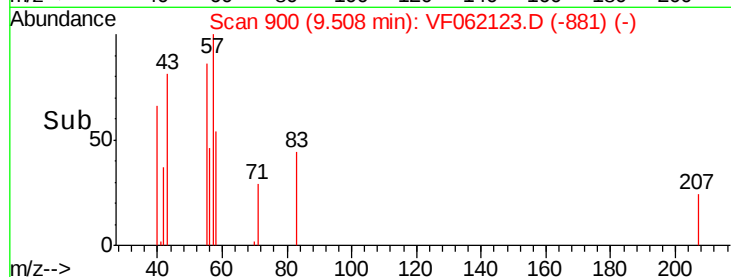
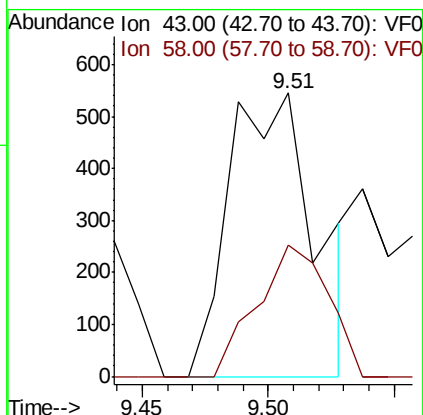
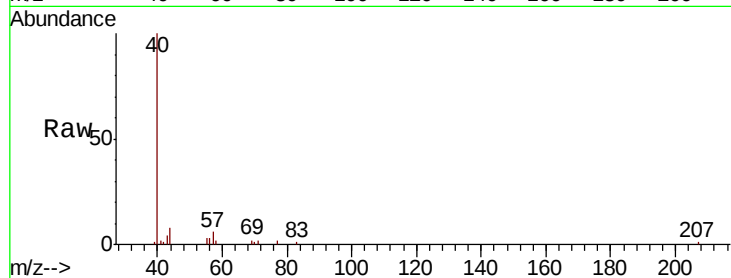




#59
2-Hexanone
Concen: 1.314 ug/l
RT: 9.51 min Scan# 900
Delta R.T. -0.01 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

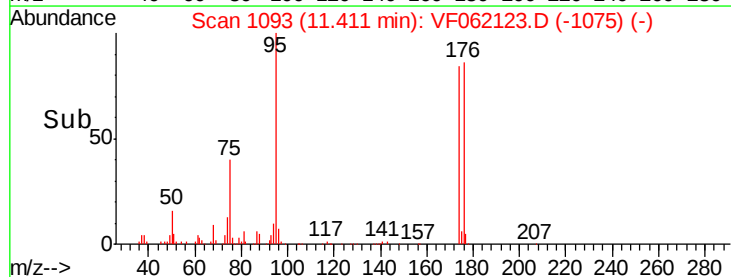
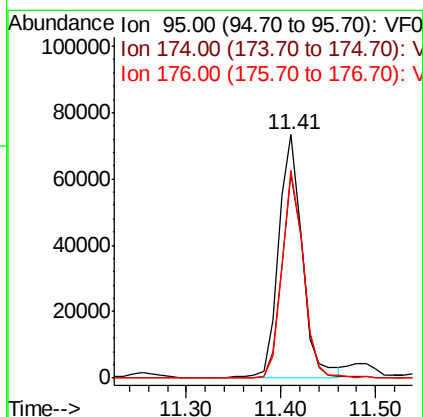
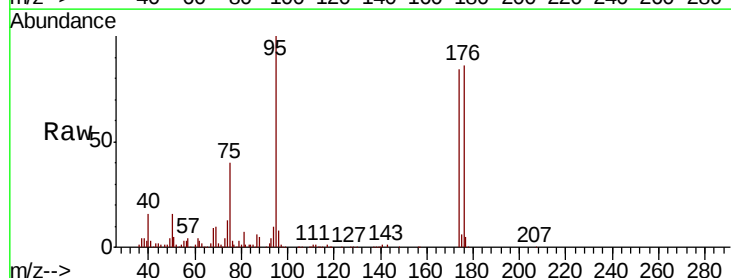
Instrument :
MSVOA_F
ClientSampleId :
WP022SB436-190320-(20-22)

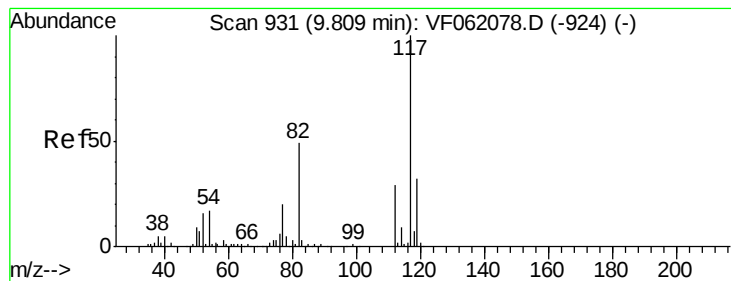
Tot Ion: 43 Resp: 1301
Ion Ratio Lower Upper
43 100
58 46.2 28.8 86.4



#62
4-Bromofluorobenzene
Concen: 40.937 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.02 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

Tgt Ion: 95 Resp: 127773
Ion Ratio Lower Upper
95 100
174 83.5 0.0 168.2
176 85.6 0.0 164.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.03 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

WP022SB436-190320-(20-22)

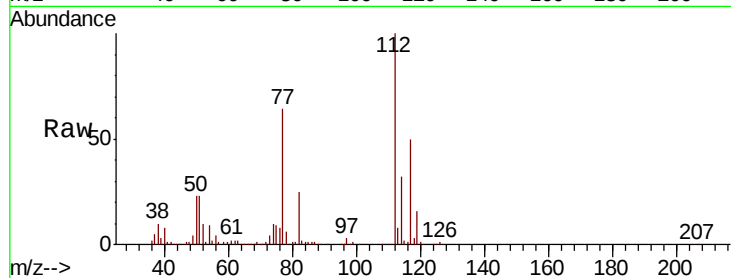
Tot Ion:117 Resp: 305551

Ion Ratio Lower Upper

117 100

82 49.7 39.2 58.8

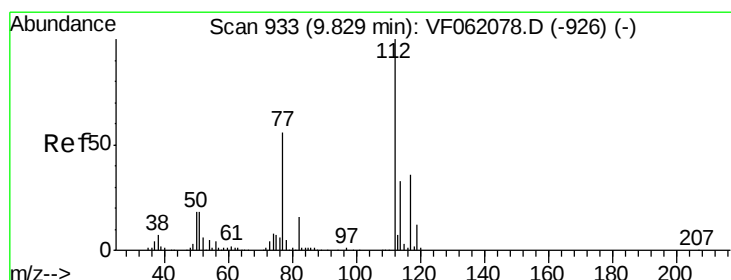
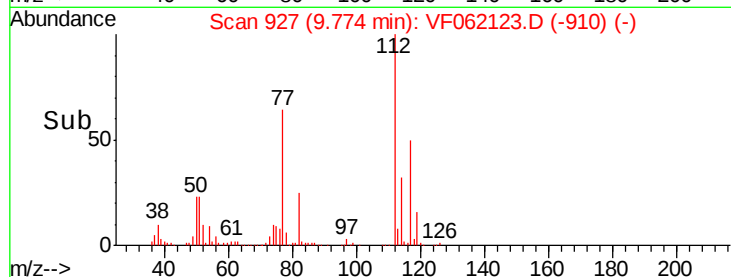
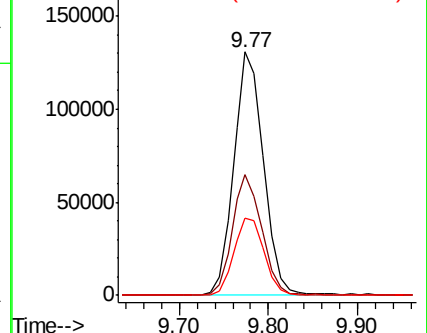
119 31.9 25.4 38.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#65

Chlorobenzene

Concen: 516.650 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.02 min

Lab File: VF062123.D

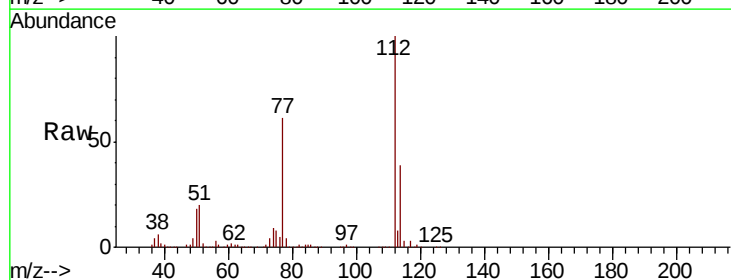
Acq: 23 Mar 2019 18:02

Tgt Ion:112 Resp: 2953723

Ion Ratio Lower Upper

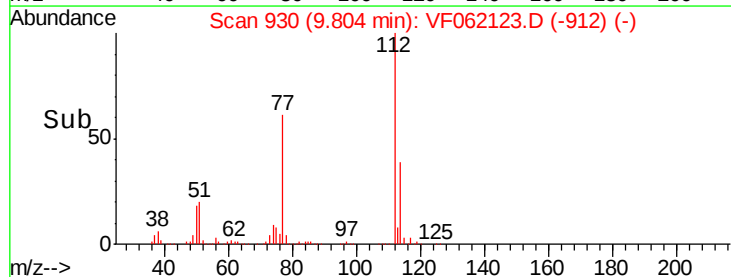
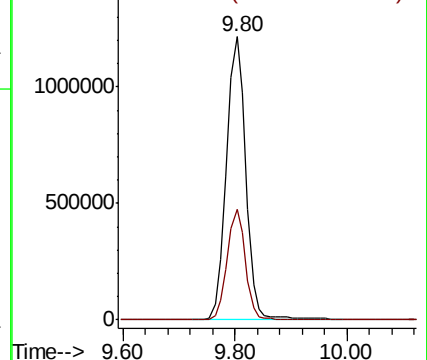
112 100

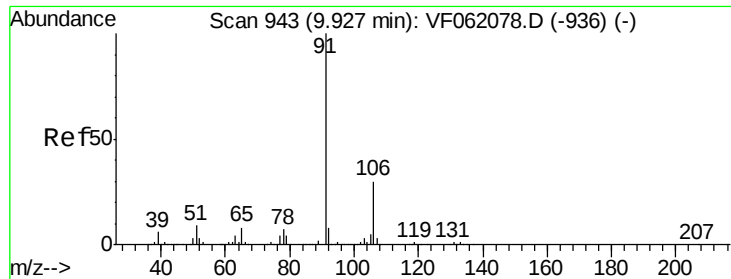
114 39.1 26.0 39.0#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





#67

Ethyl Benzene

Concen: 3.448 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.02 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

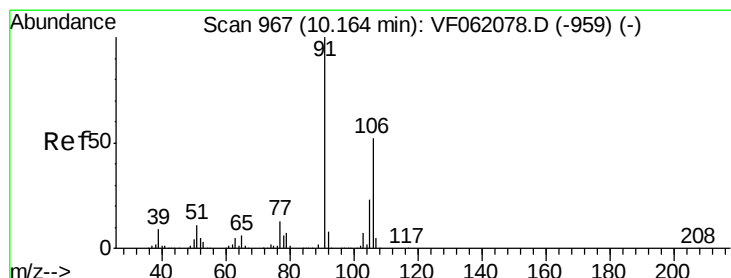
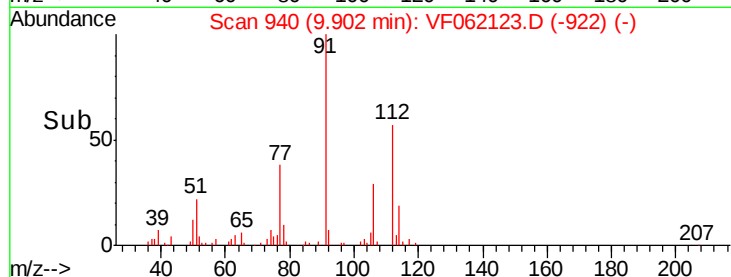
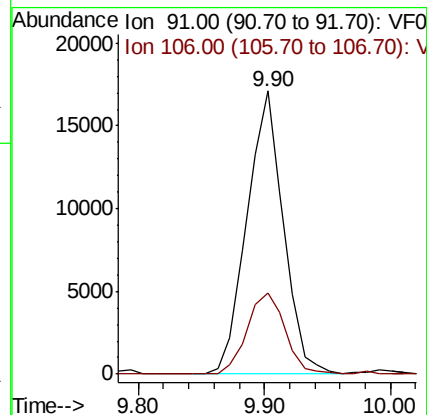
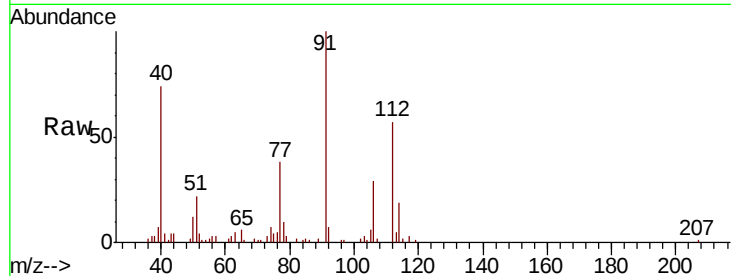
WP022SB436-190320-(20-22)

Tot Ion: 91 Resp: 34286

Ion Ratio Lower Upper

91 100

106 28.7 24.0 36.0



#68

m/p-Xylenes

Concen: 1.268 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.03 min

Lab File: VF062123.D

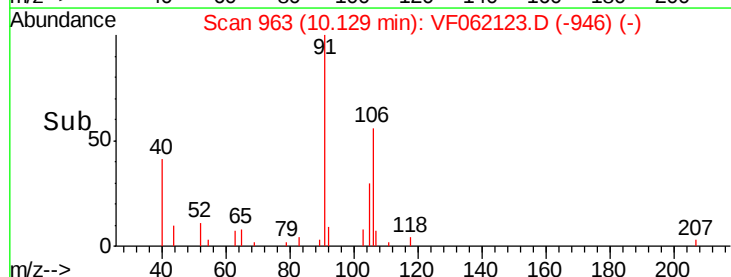
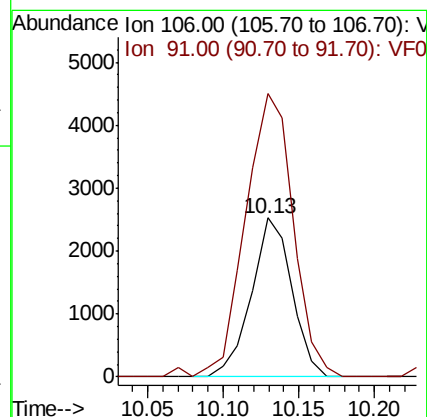
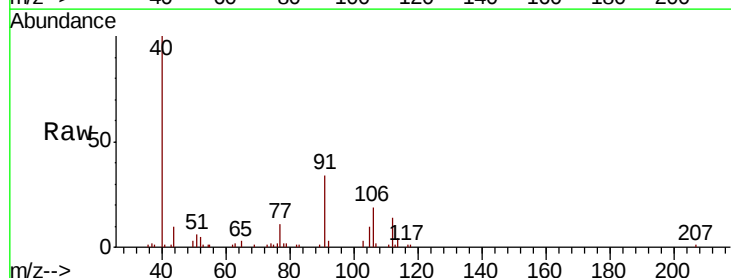
Acq: 23 Mar 2019 18:02

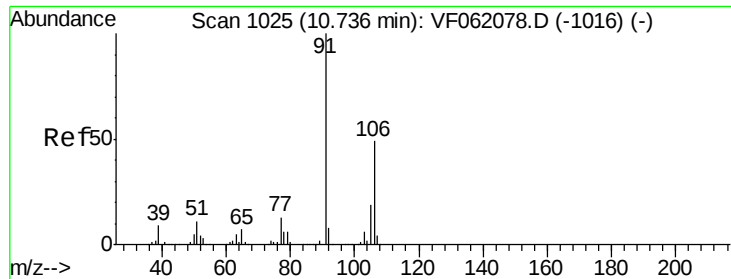
Tgt Ion: 106 Resp: 4713

Ion Ratio Lower Upper

106 100

91 178.3 154.4 231.6

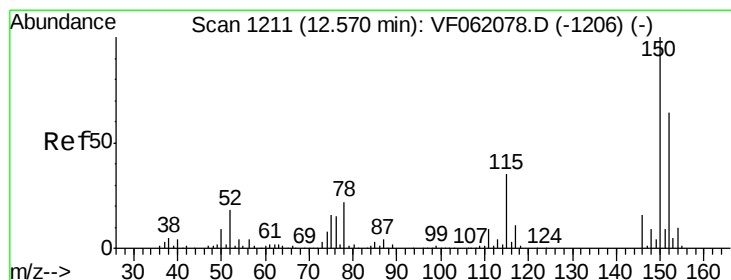
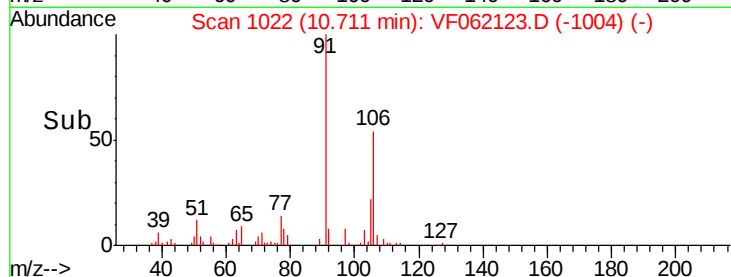
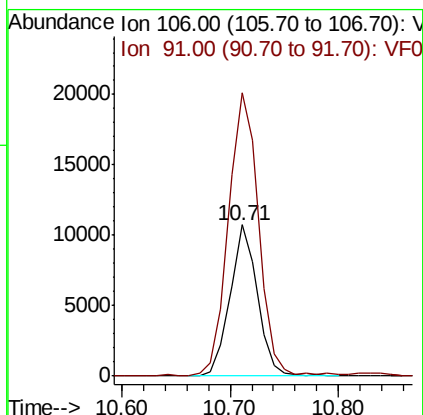
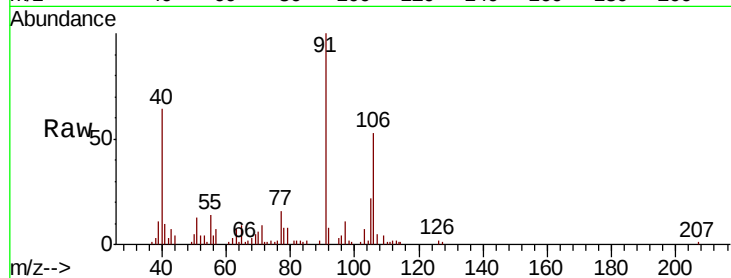




#69
o-Xylene
Concen: 4.854 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.02 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

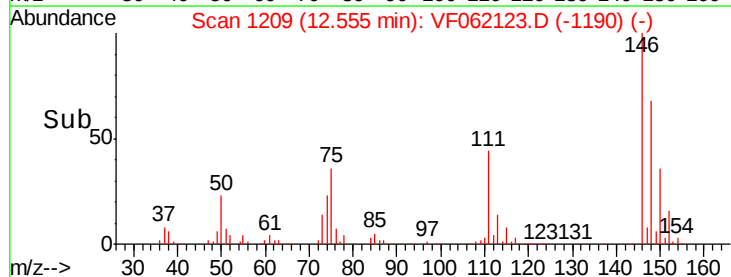
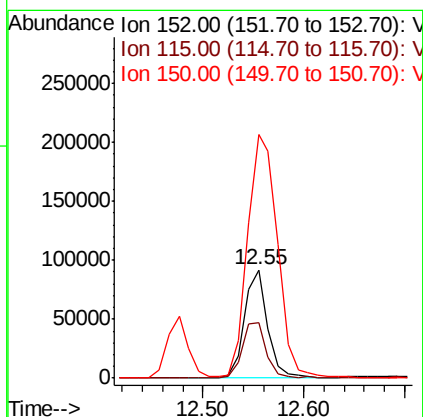
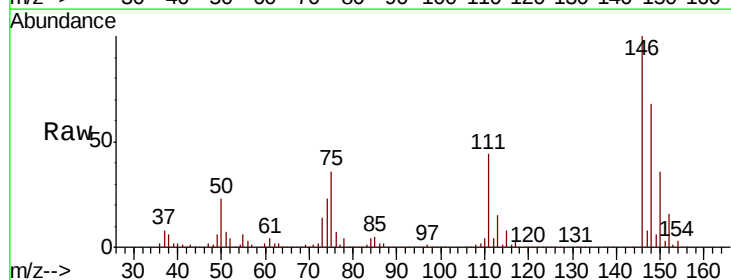
Instrument :
MSVOA_F
ClientSampleId :
WP022SB436-190320-(20-22)

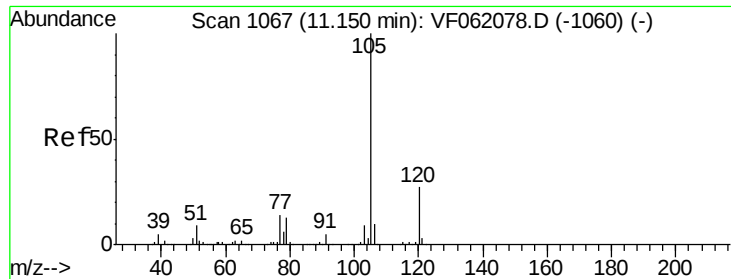
Tot Ion:106 Resp: 18891
Ion Ratio Lower Upper
106 100
91 187.3 102.6 307.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

Tgt Ion:152 Resp: 145665
Ion Ratio Lower Upper
152 100
115 50.6 27.7 83.1
150 224.6 0.0 313.2





#73

Isopropylbenzene

Concen: 1.701 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.02 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

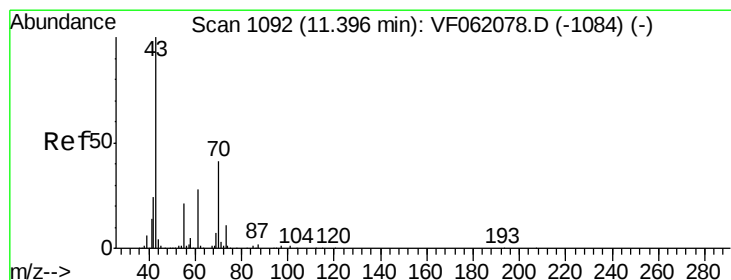
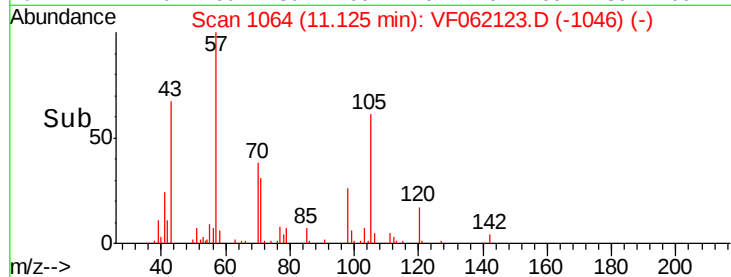
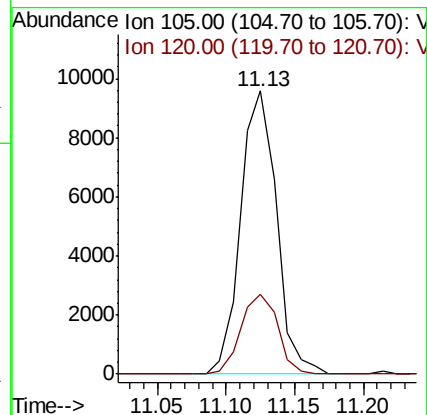
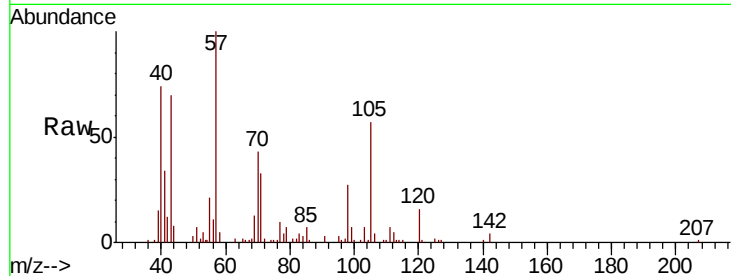
WP022SB436-190320-(20-22)

Tot Ion:105 Resp: 17433

Ion Ratio Lower Upper

105 100

120 28.4 13.8 41.3



#74

N-ethyl acetate

Concen: 3.359 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Tgt Ion: 43 Resp: 8204

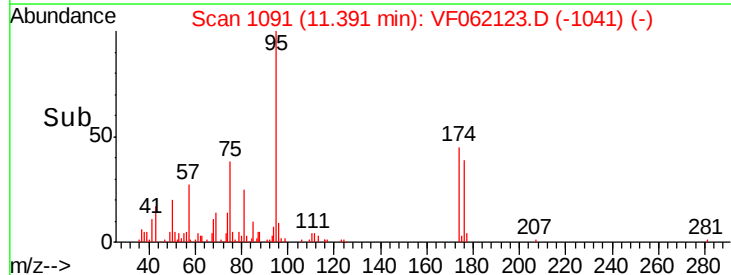
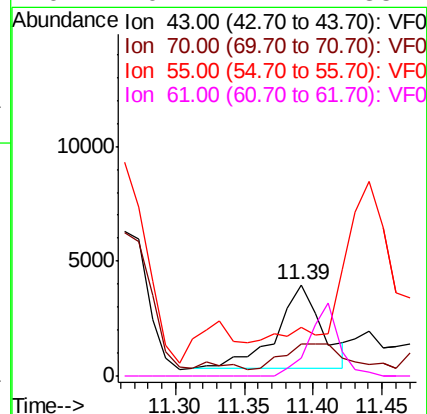
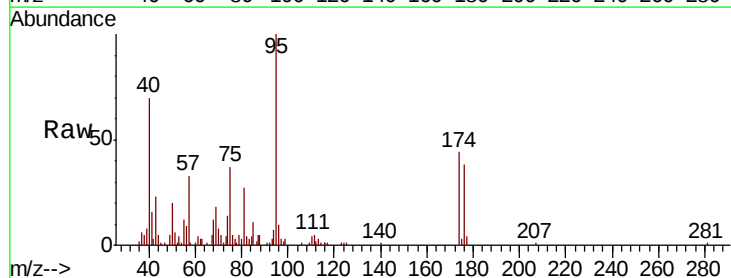
Ion Ratio Lower Upper

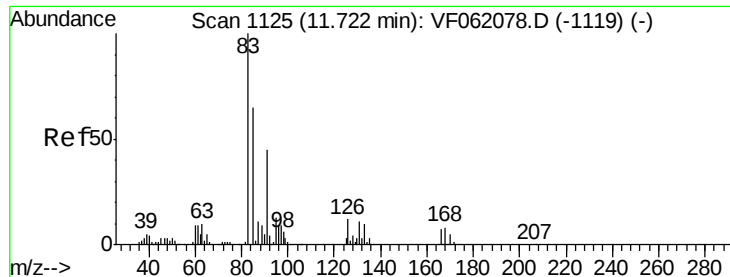
43 100

70 34.9 32.9 49.3

55 52.6 17.1 25.7#

61 19.4 22.2 33.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 4.804 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.04 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

WP022SB436-190320-(20-22)

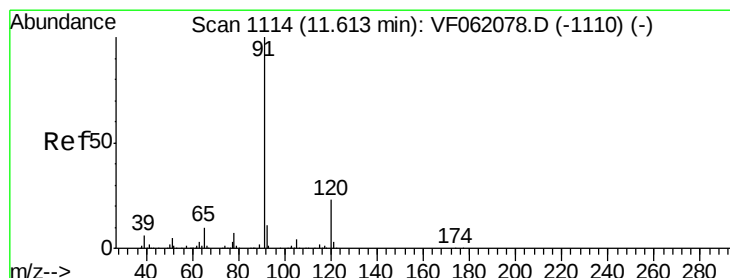
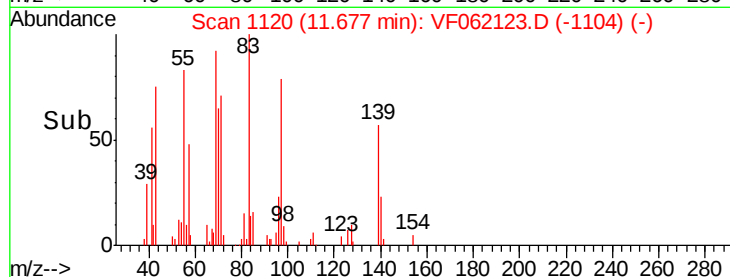
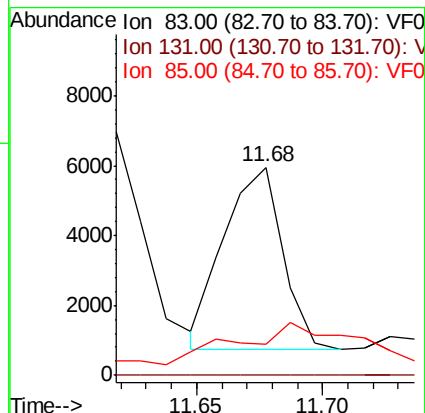
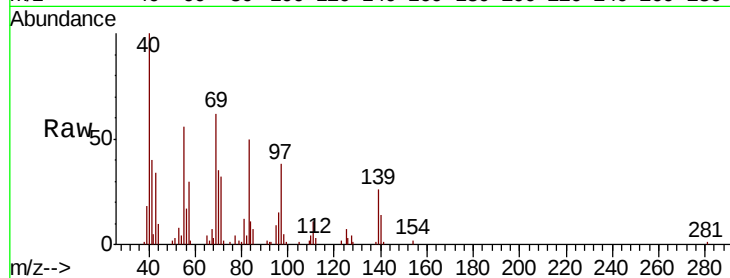
Tot Ion: 83 Resp: 8454

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

85 15.0 32.6 98.0#



#78

n-propylbenzene

Concen: 3.632 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.02 min

Lab File: VF062123.D

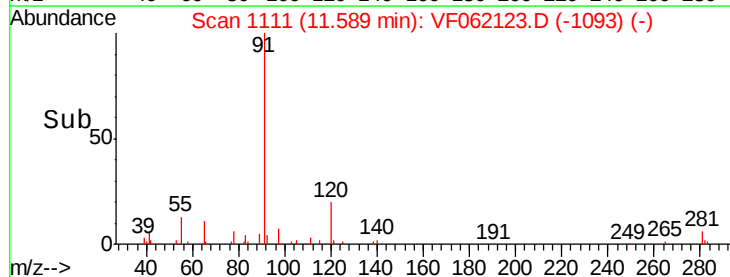
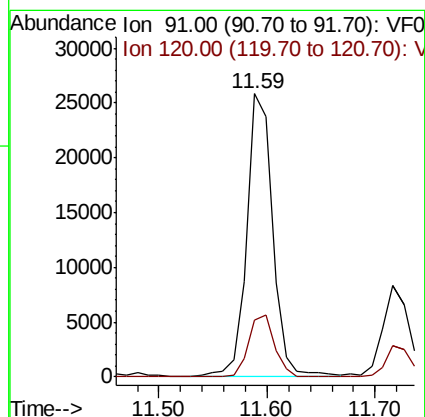
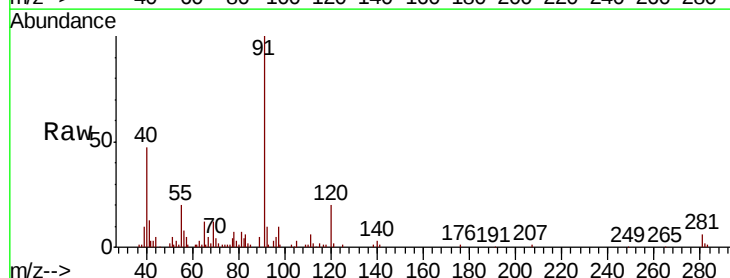
Acq: 23 Mar 2019 18:02

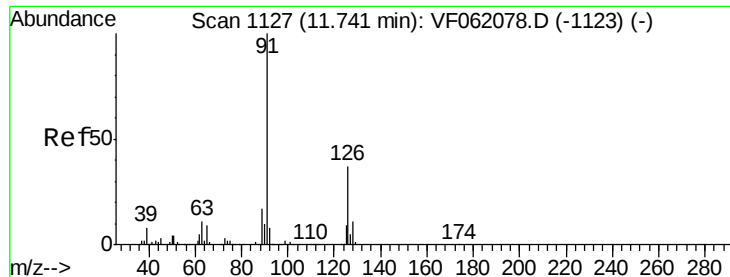
Tgt Ion: 91 Resp: 43234

Ion Ratio Lower Upper

91 100

120 19.9 11.3 33.8





#79

2-Chlorotoluene

Concen: 1.966 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.02 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

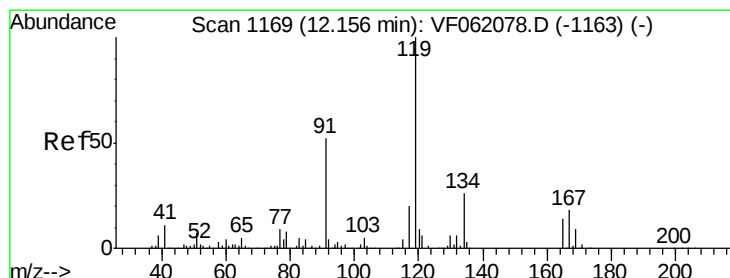
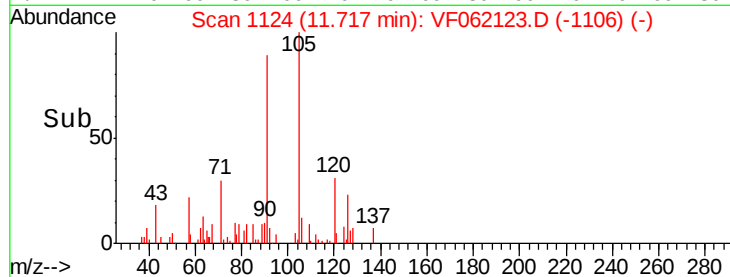
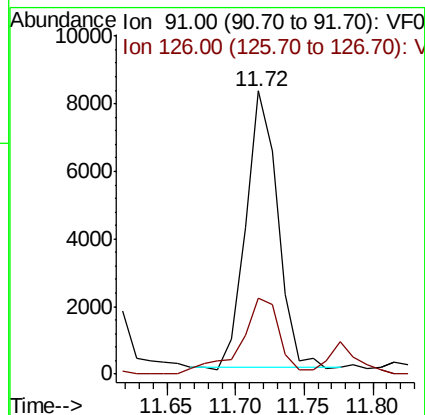
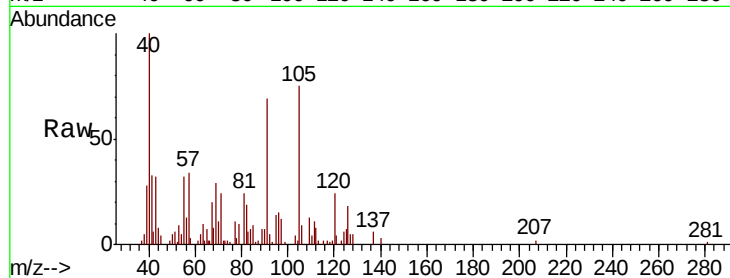
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Tot Ion: 91 Resp: 13008

Ion Ratio Lower Upper

91 100

126 26.8 18.3 54.8



#83

tert-Butylbenzene

Concen: 1.370 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. -0.02 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

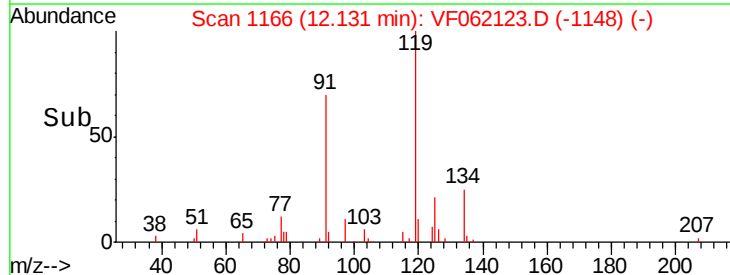
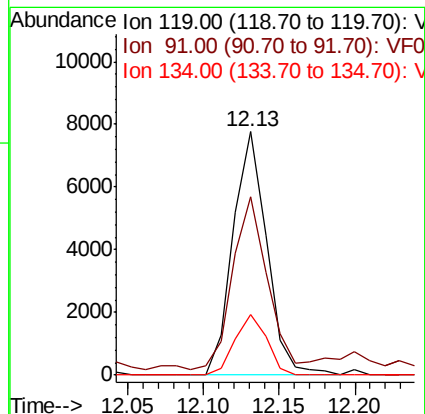
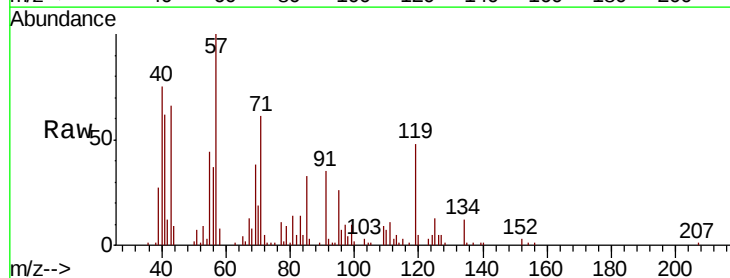
Tgt Ion: 119 Resp: 12094

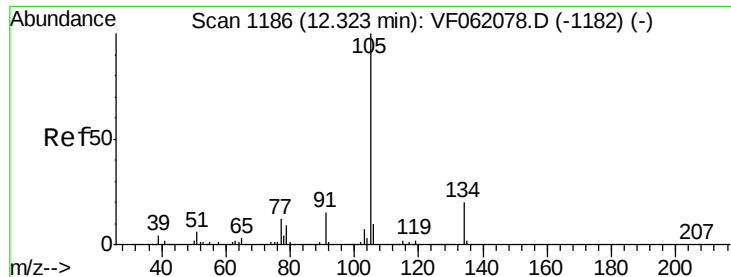
Ion Ratio Lower Upper

119 100

91 73.3 26.1 78.2

134 25.0 12.8 38.4

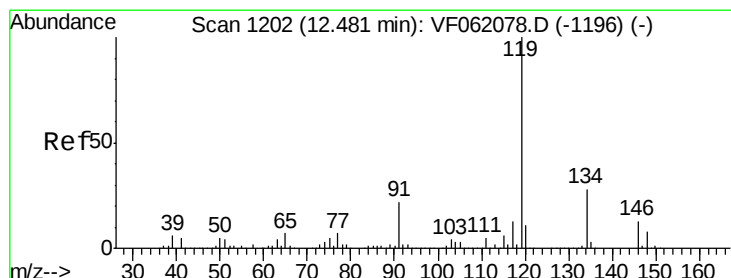
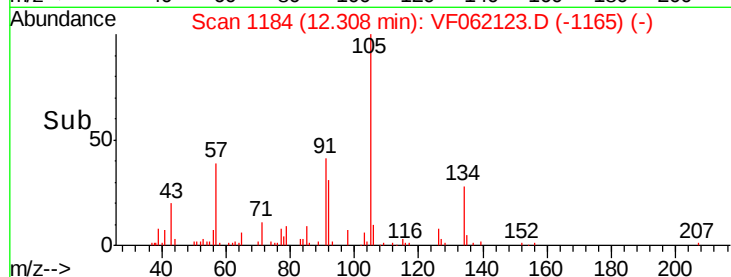
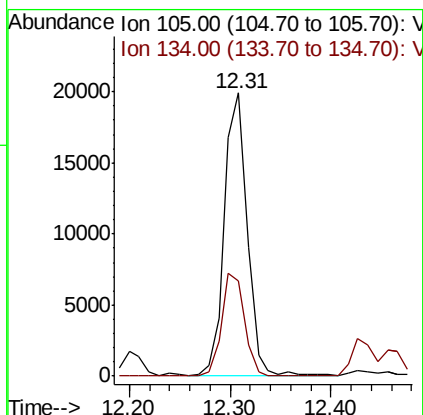
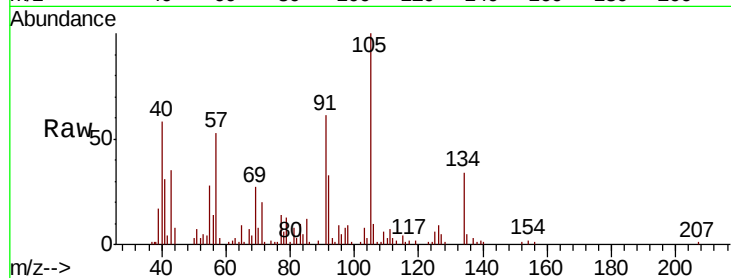




#85
 sec-Butylbenzene
 Concen: 2.777 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: VF062123.D
 Acq: 23 Mar 2019 18:02

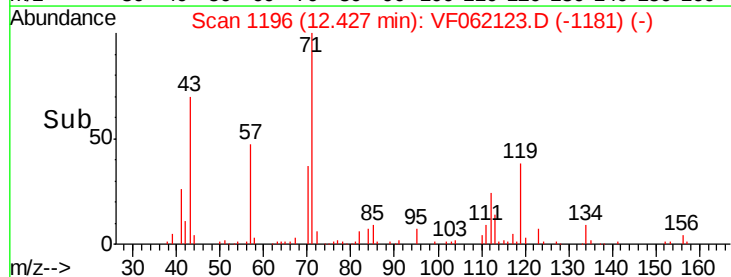
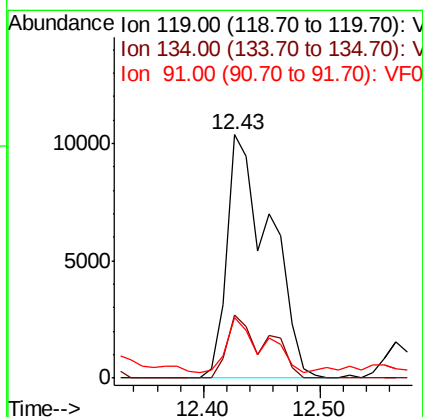
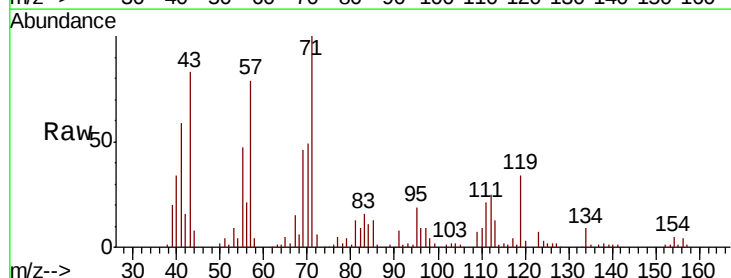
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB436-190320-(20-22)

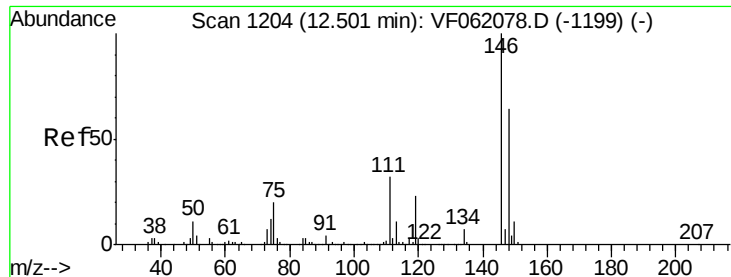
Tot Ion:105 Resp: 31710
 Ion Ratio Lower Upper
 105 100
 134 33.5 10.2 30.4#



#86
 p-Isopropyltoluene
 Concen: 2.676 ug/l
 RT: 12.43 min Scan# 1196
 Delta R.T. -0.05 min
 Lab File: VF062123.D
 Acq: 23 Mar 2019 18:02

Tgt Ion:119 Resp: 26470
 Ion Ratio Lower Upper
 119 100
 134 25.7 14.0 42.0
 91 24.7 10.8 32.4

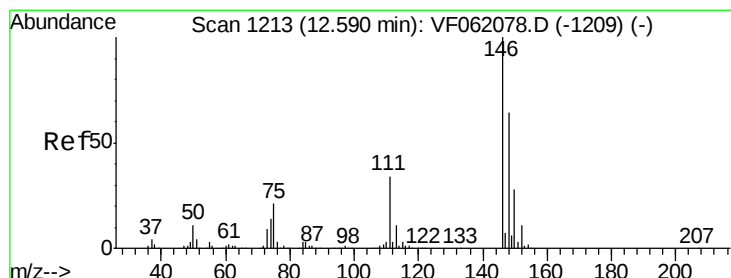
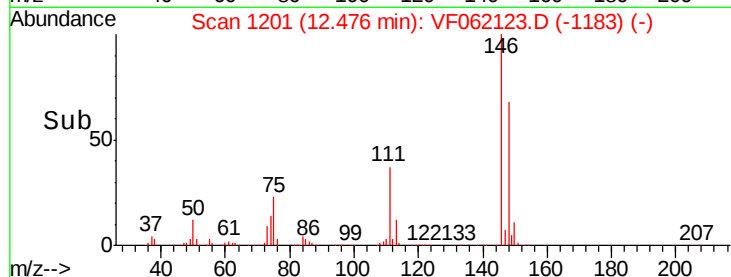
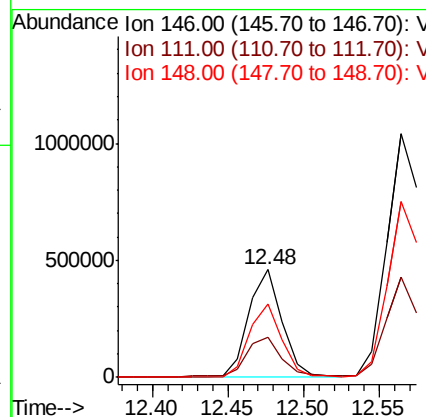
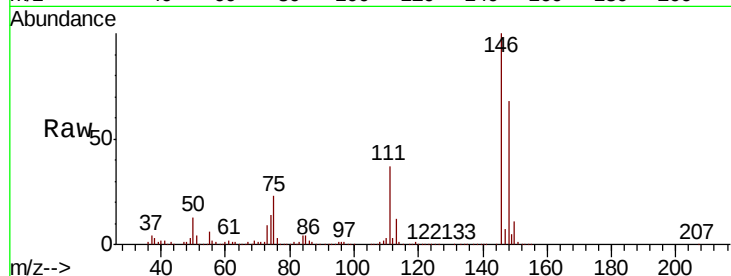




#87
 1,3-Dichlorobenzene
 Concen: 152.547 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.02 min
 Lab File: VF062123.D
 Acq: 23 Mar 2019 18:02

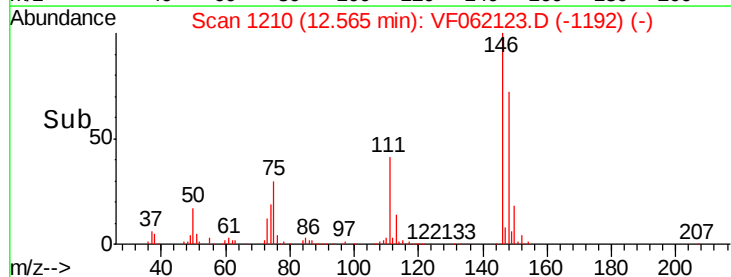
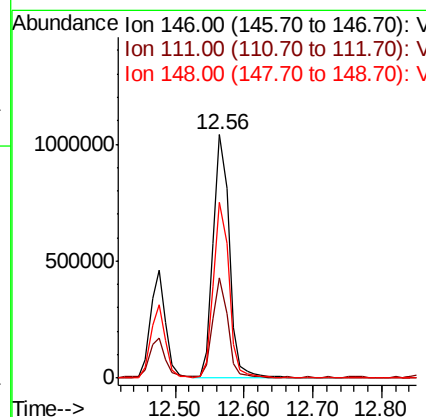
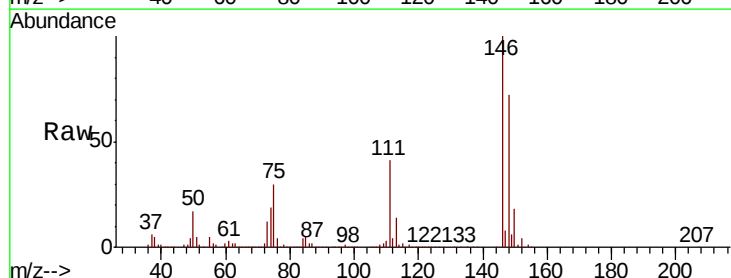
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB436-190320-(20-22)

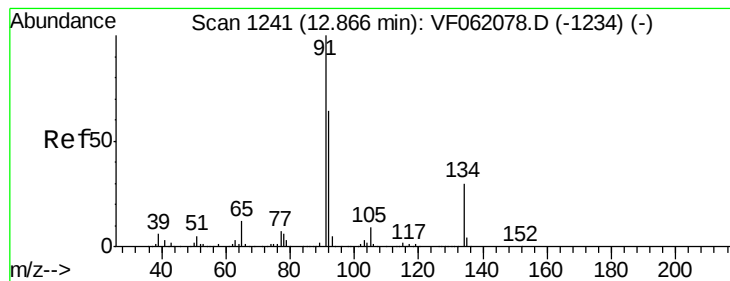
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	16.1	48.3
148	67.7	31.9	95.7



#88
 1,4-Dichlorobenzene
 Concen: 376.119 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.02 min
 Lab File: VF062123.D
 Acq: 23 Mar 2019 18:02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.2	16.9	50.6
148	72.0	31.9	95.7





#89

n-Butylbenzene

Concen: 3.722 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.02 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

Instrument :

MSVOA_F

ClientSampleId :

WP022SB436-190320-(20-22)

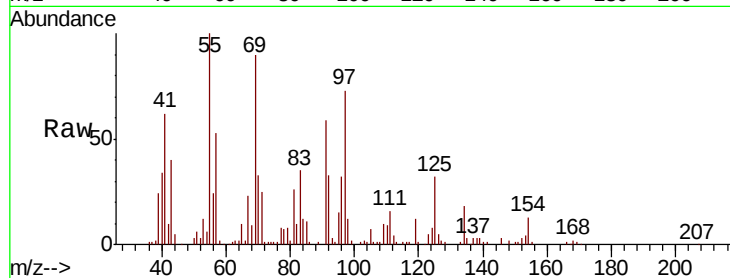
Tot Ion: 91 Resp: 35125

Ion Ratio Lower Upper

91 100

92 55.1 31.9 95.5

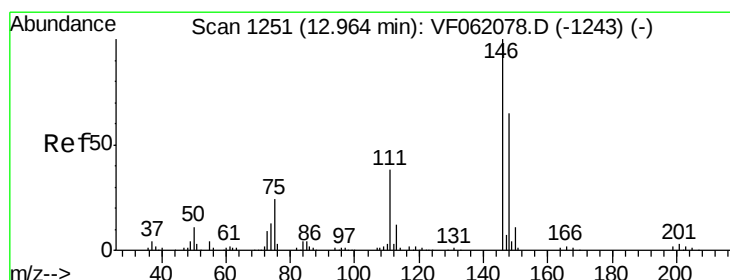
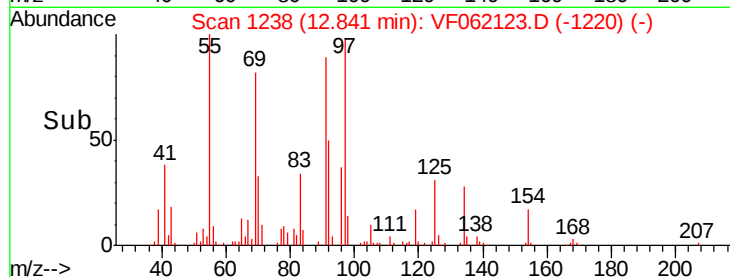
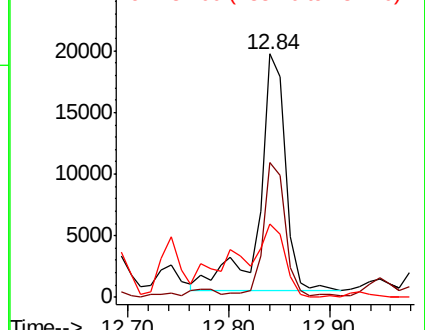
134 30.4 14.9 44.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#91

1,2-Dichlorobenzene

Concen: 714.004 ug/l

RT: 12.95 min Scan# 1249

Delta R.T. -0.01 min

Lab File: VF062123.D

Acq: 23 Mar 2019 18:02

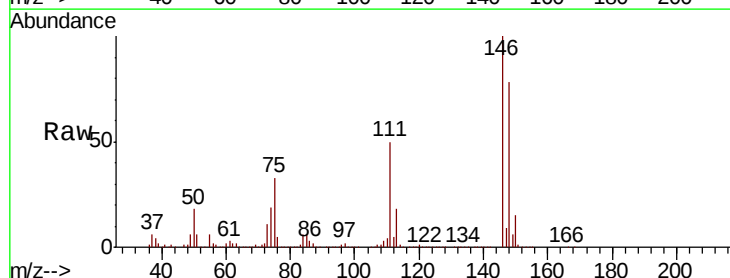
Tgt Ion: 146 Resp: 3119256

Ion Ratio Lower Upper

146 100

111 49.7 19.1 57.3

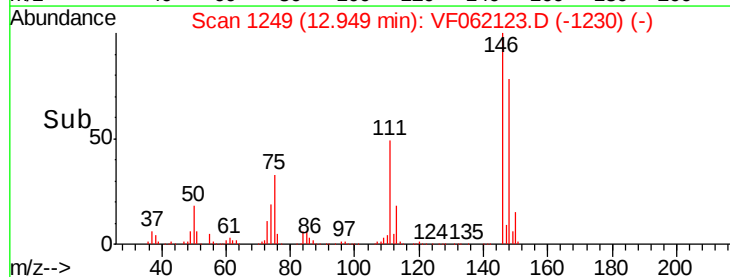
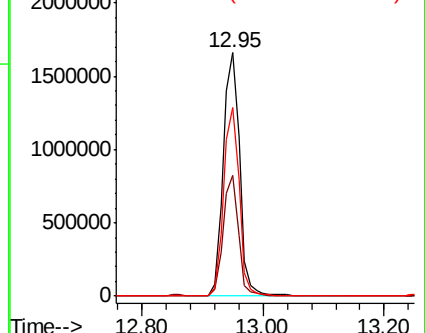
148 77.6 32.8 98.3

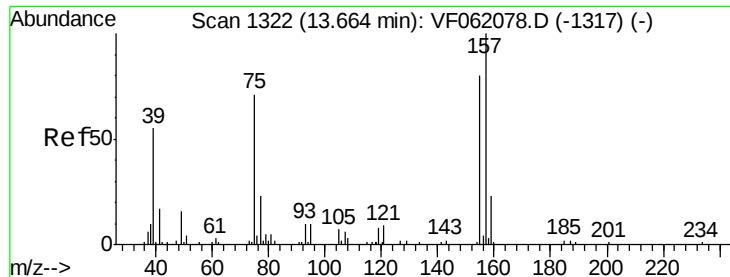


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

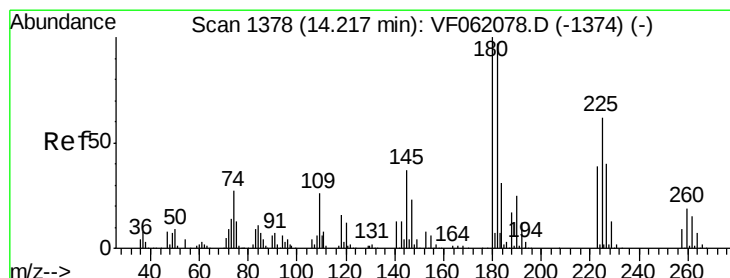
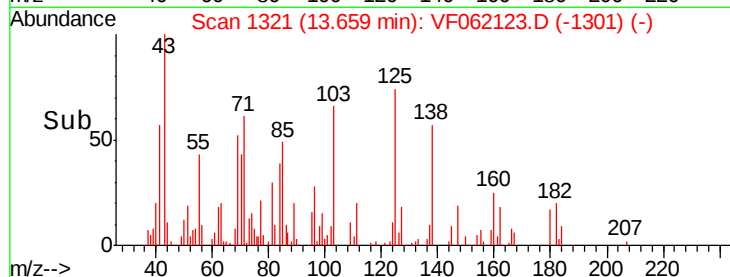
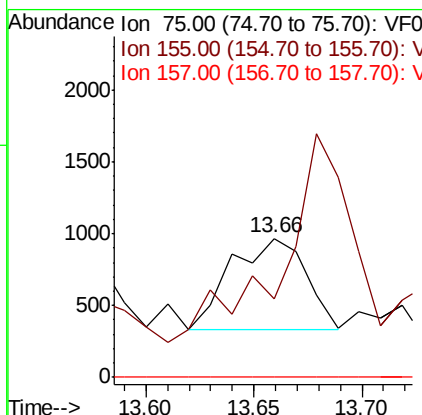
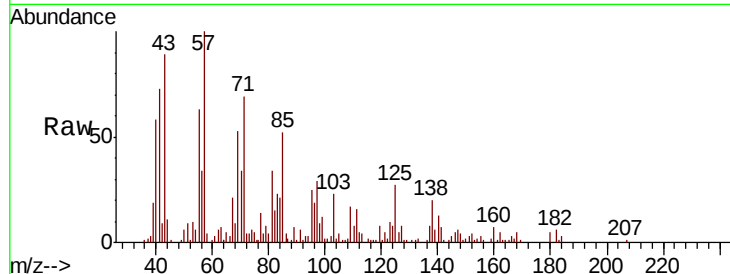




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.786 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VF062123.D
 Acq: 23 Mar 2019 18:02

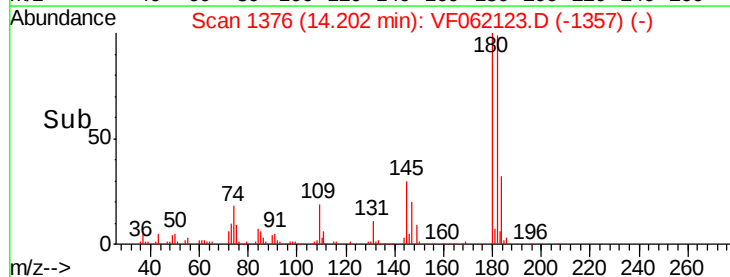
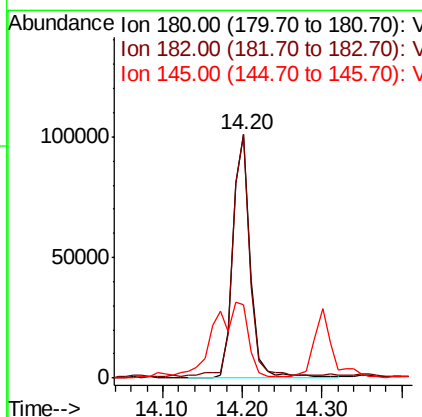
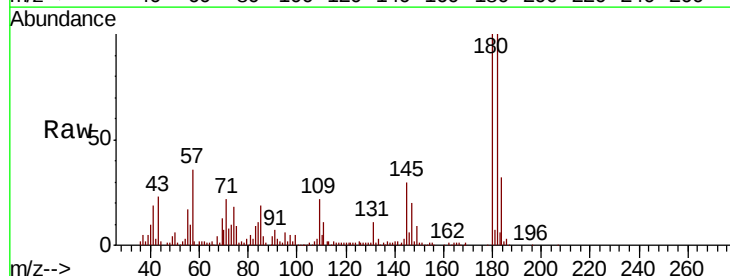
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB436-190320-(20-22)

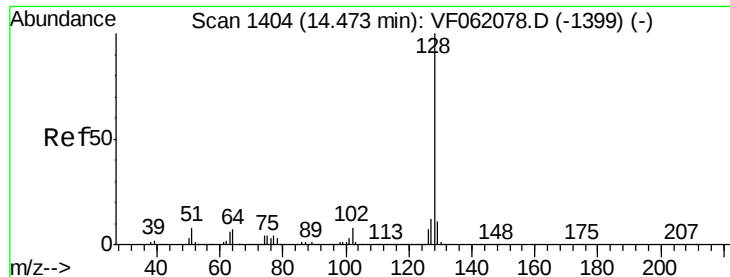
Tot Ion: 75 Resp: 1543
 Ion Ratio Lower Upper
 75 100
 155 56.5 56.1 168.4
 157 0.0 70.4 211.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 50.595 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF062123.D
 Acq: 23 Mar 2019 18:02

Tgt Ion: 180 Resp: 154049
 Ion Ratio Lower Upper
 180 100
 182 99.9 48.7 146.1
 145 29.9 18.3 54.8

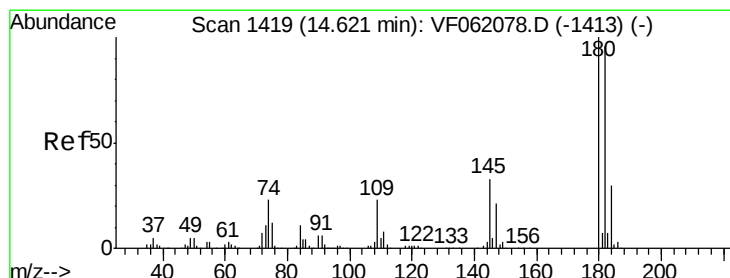
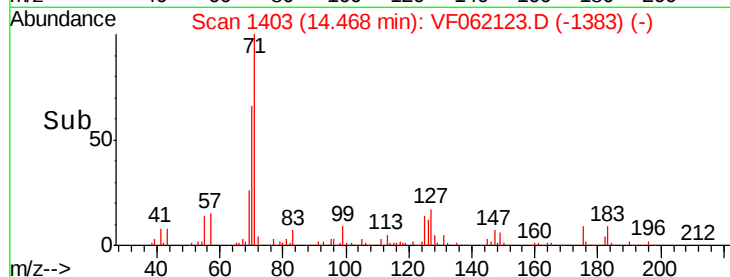
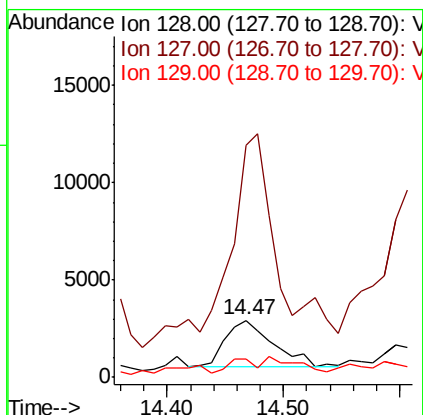
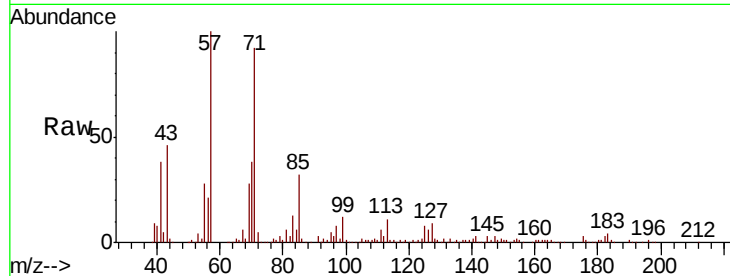




#95
Naphthalene
Concen: 1.241 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. -0.01 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

Instrument :
MSVOA_F
ClientSampleId :
WP022SB436-190320-(20-22)

Tot Ion:128 Resp: 6624
Ion Ratio Lower Upper
128 100
127 404.4 9.5 14.3#
129 31.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 9.335 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.02 min
Lab File: VF062123.D
Acq: 23 Mar 2019 18:02

Tgt Ion:180 Resp: 26605
Ion Ratio Lower Upper
180 100
182 85.8 47.9 143.7
145 43.7 16.6 49.7

