

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032619\
 Data File : VF062146.D
 Acq On : 26 Mar 2019 15:20
 Operator : VA/AP
 Sample : K2004-05
 Misc : 4.83g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 27 05:16:23 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	4.85	168	152944	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.58	114	247576	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.76	117	143132	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.54	152	41090	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	56228	49.43	ug/l	-0.05
Spiked Amount			Recovery	=	98.86%	
35) Dibromofluoromethane	4.10	113	78052	46.61	ug/l	-0.05
Spiked Amount			Recovery	=	93.22%	
50) Toluene-d8	7.54	98	152837	30.57	ug/l	-0.05
Spiked Amount			Recovery	=	61.14%	
62) 4-Bromofluorobenzene	11.36	95	49184	25.48	ug/l	-0.08
Spiked Amount			Recovery	=	50.96%	

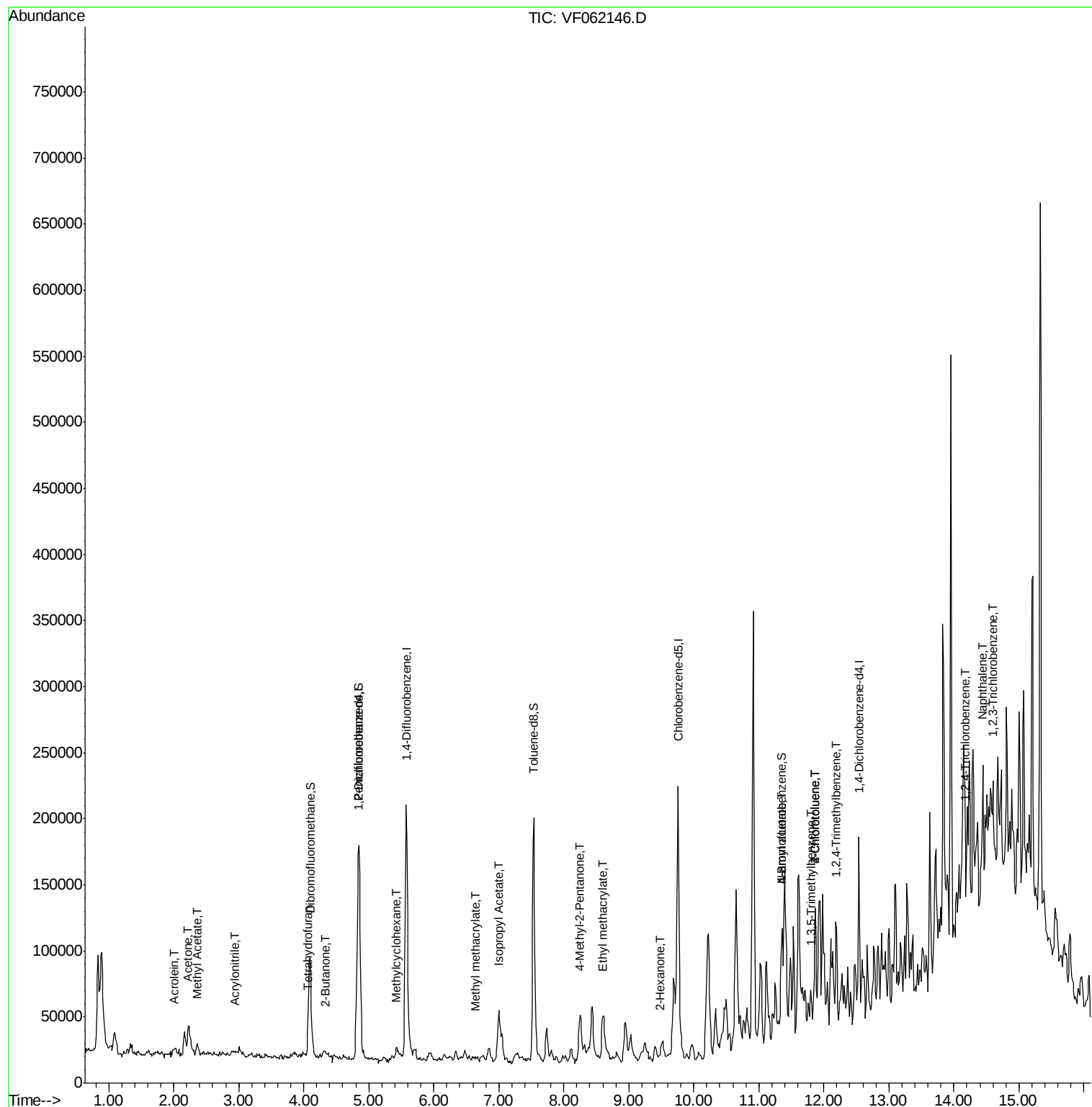
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	2.01	56	951	12.635	ug/l #	69
15) Acrylonitrile	2.94	53	1064	4.834	ug/l #	70
16) Acetone	2.22	43	24332	101.626	ug/l	93
18) Methyl Acetate	2.37	43	3444	6.030	ug/l #	56
20) Methylene Chloride	2.17	84	4620	Below Cal	#	88
25) 2-Butanone	4.33	43	10987	21.981	ug/l #	83
29) Tetrahydrofuran	4.05	42	661	3.042	ug/l #	51
39) Methylcyclohexane	5.43	83	5812	2.124	ug/l #	62
43) Isopropyl Acetate	7.00	43	3283	2.630	ug/l #	42
48) Methyl methacrylate	6.64	41	1794	2.525	ug/l #	64
51) 4-Methyl-2-Pentanone	8.26	43	14415	17.256	ug/l #	47
56) Ethyl methacrylate	8.60	69	14922	12.030	ug/l #	87
59) 2-Hexanone	9.47	43	4995	8.159	ug/l	76
74) N-amyl acetate	11.36	43	7055	10.240	ug/l #	14
79) 2-Chlorotoluene	11.88	91	2723	1.459	ug/l	73
80) 1,3,5-Trimethylbenzene	11.81	105	2795	1.175	ug/l	92
82) 4-Chlorotoluene	11.88	91	4622	2.416	ug/l	76
84) 1,2,4-Trimethylbenzene	12.19	105	3356	1.439	ug/l	82
93) 1,2,4-Trichlorobenzene	14.19	180	2442	2.843	ug/l #	71
95) Naphthalene	14.44	128	11255	7.478	ug/l #	59
96) 1,2,3-Trichlorobenzene	14.59	180	2773	3.449	ug/l	73

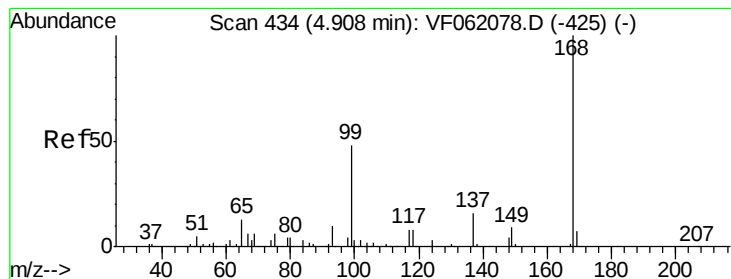
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.06 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

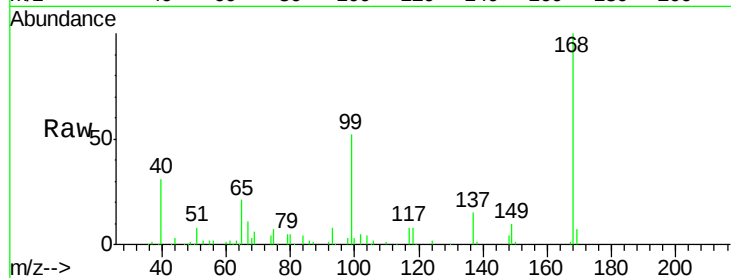
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 152944

Ion Ratio Lower Upper

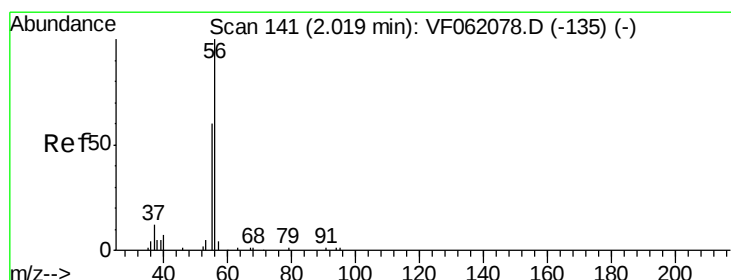
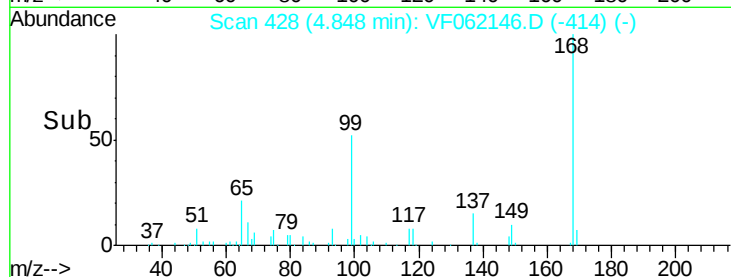
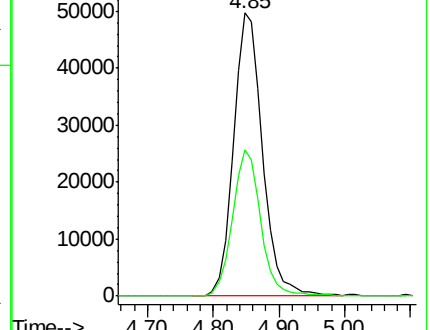
168 100

99 51.7 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: 12.635 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062146.D

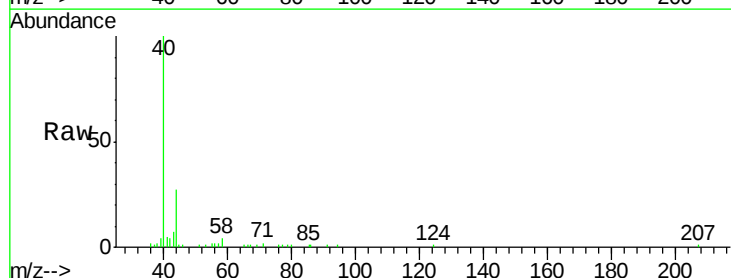
Acq: 26 Mar 2019 15:20

Tgt Ion: 56 Resp: 951

Ion Ratio Lower Upper

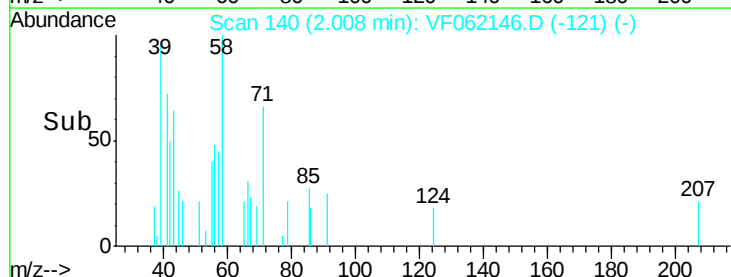
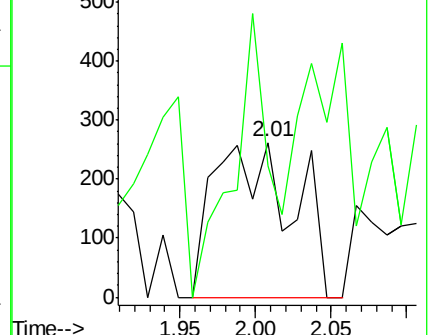
56 100

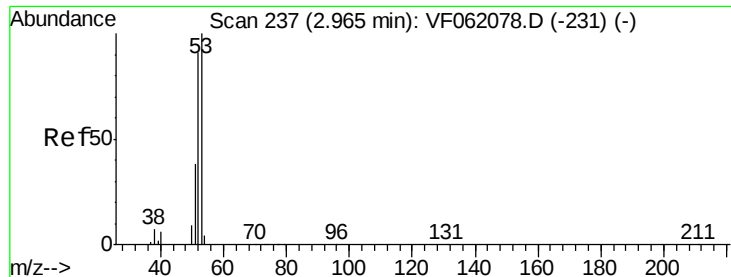
55 85.1 49.0 73.4#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 4.834 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

Instrument :

MSVOA_F

ClientSampleId :

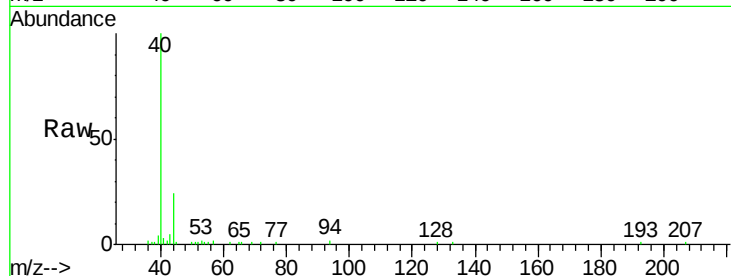
Tot Ion: 53 Resp: 1064

Ion Ratio Lower Upper

53 100

52 52.5 72.3 108.5#

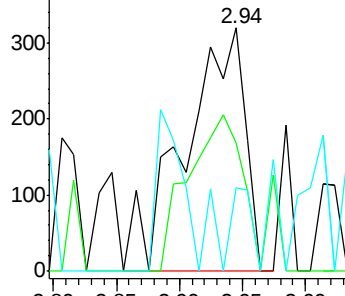
51 34.4 30.4 45.6



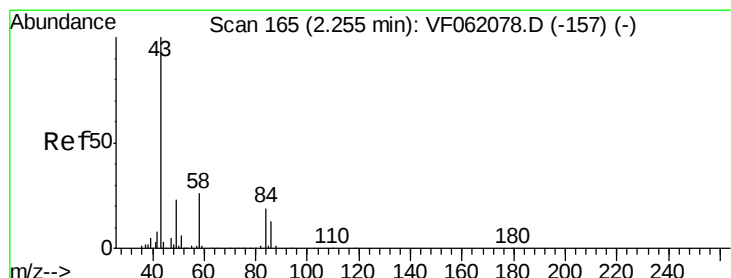
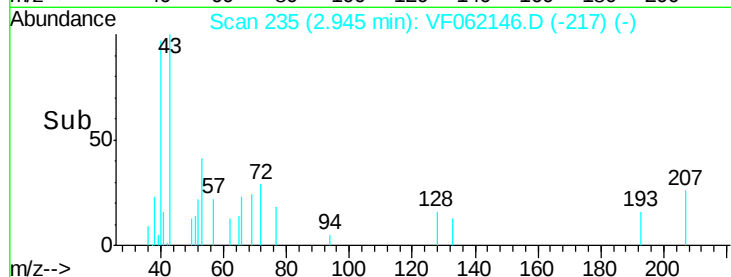
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 101.626 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF062146.D

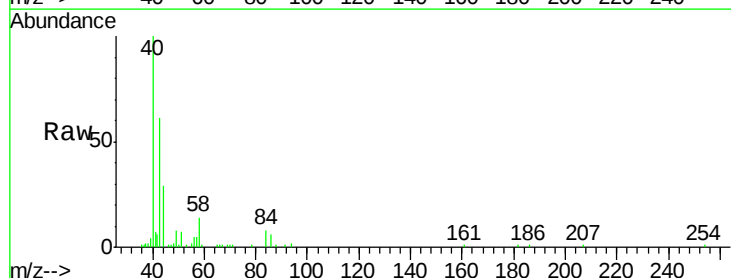
Acq: 26 Mar 2019 15:20

Tgt Ion: 43 Resp: 24332

Ion Ratio Lower Upper

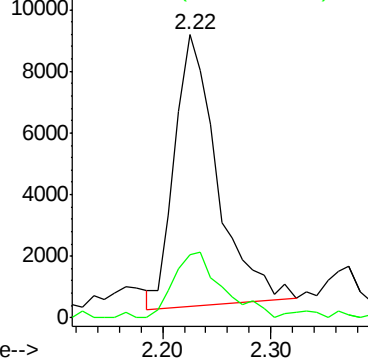
43 100

58 22.4 20.8 31.2

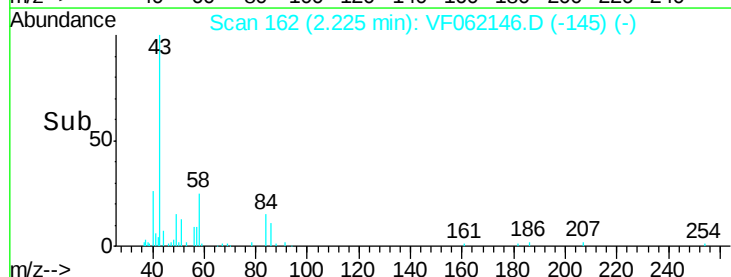


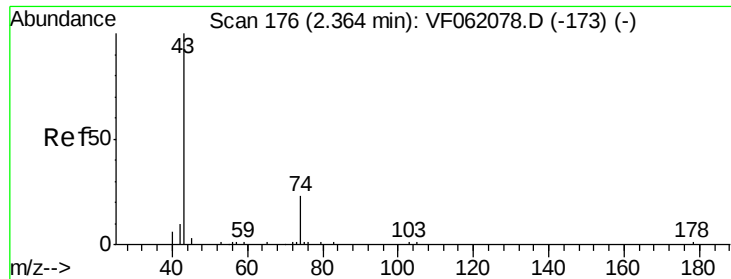
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->

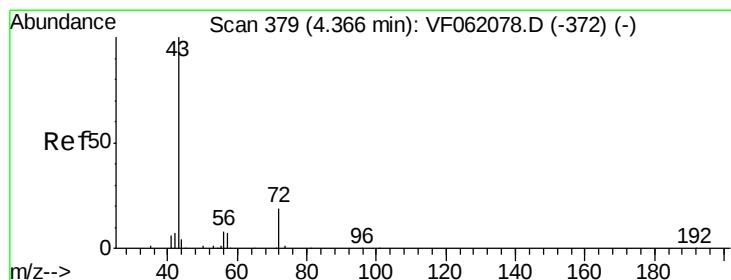
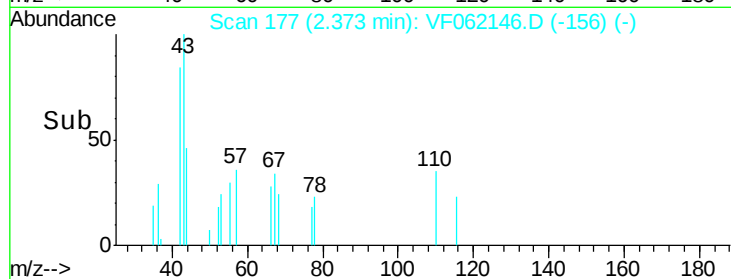
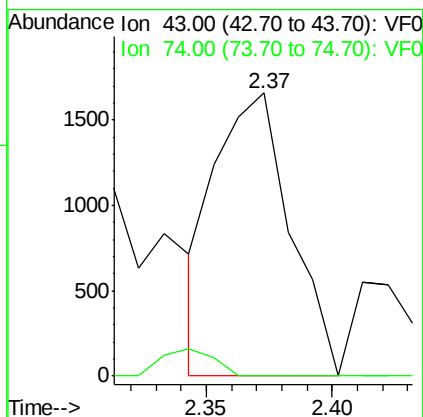
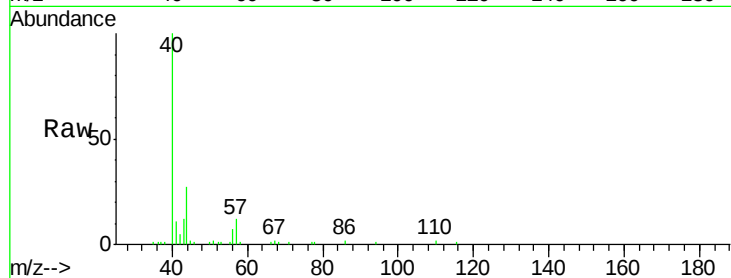




#18
Methyl Acetate
Concen: 6.030 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

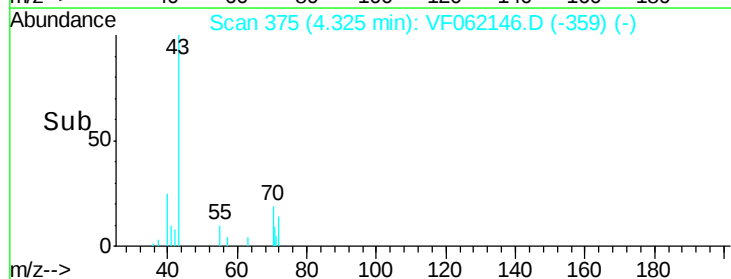
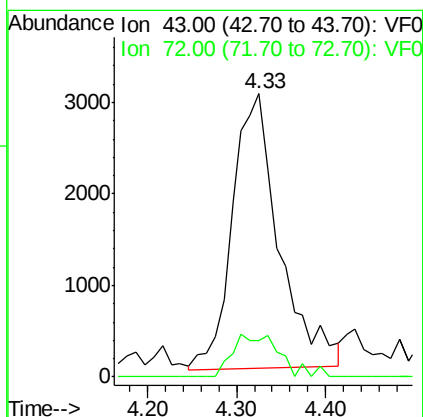
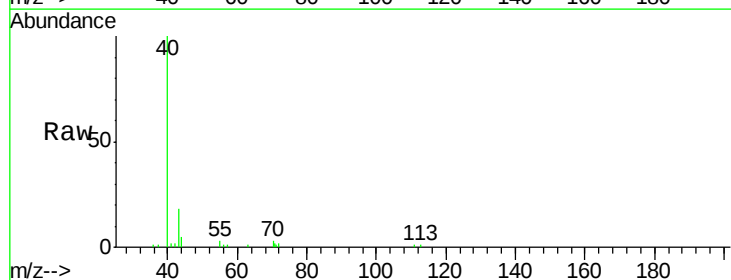
Instrument :
MSVOA_F
ClientSampled :

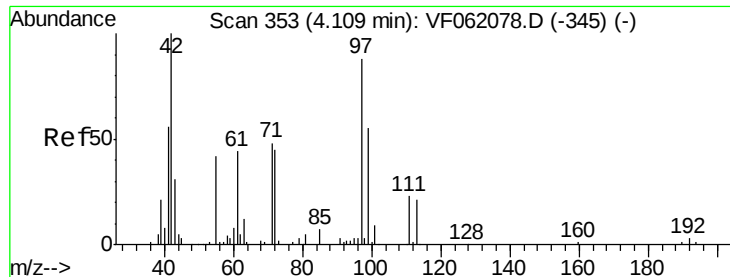
Tot Ion: 43 Resp: 3444
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#25
2-Butanone
Concen: 21.981 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.04 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

Tgt Ion: 43 Resp: 10987
Ion Ratio Lower Upper
43 100
72 13.0 16.7 25.1#

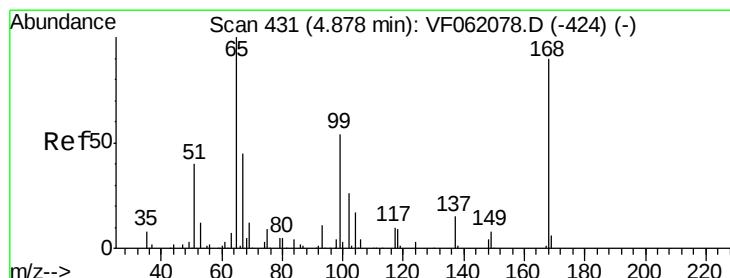
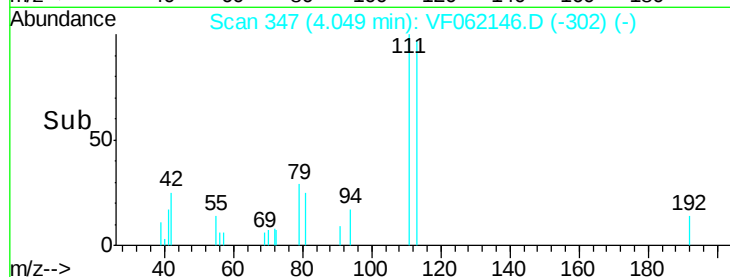
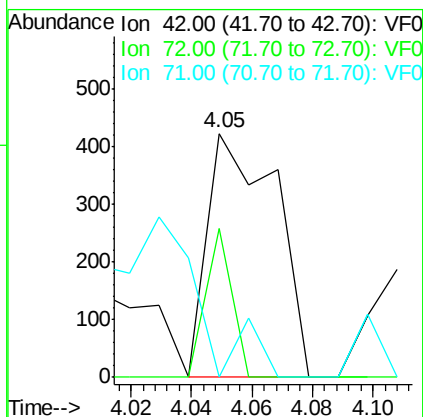
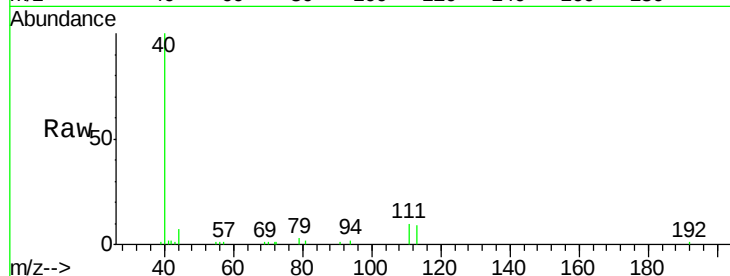




#29
Tetrahydrofuran
Concen: 3.042 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.06 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

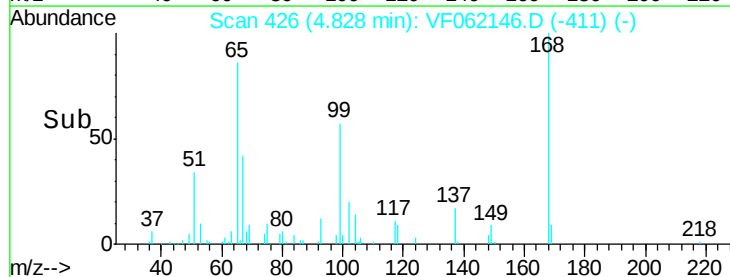
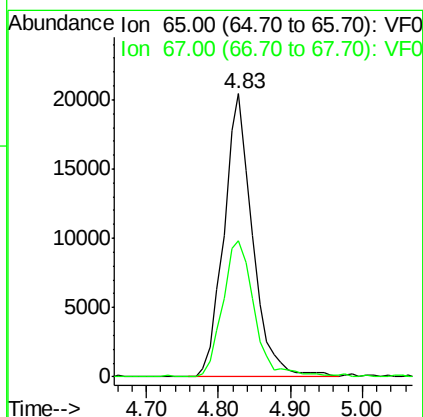
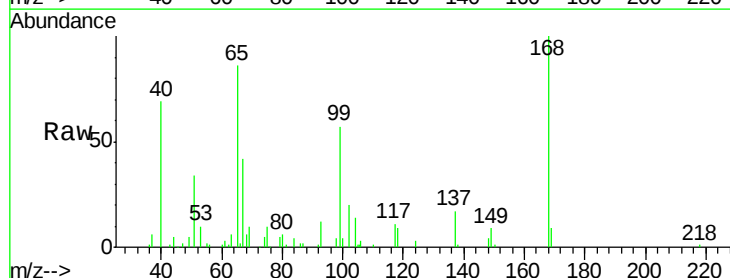
Instrument :
MSVOA_F
ClientSampleId :

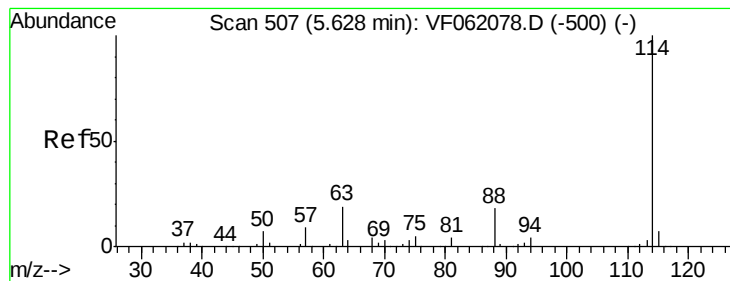
Tot Ion: 42 Resp: 661
Ion Ratio Lower Upper
42 100
72 23.1 33.3 49.9#
71 0.0 35.0 52.4#



#33
1,2-Dichloroethane-d4
Concen: 49.426 ug/l
RT: 4.83 min Scan# 426
Delta R.T. -0.05 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

Tgt Ion: 65 Resp: 56228
Ion Ratio Lower Upper
65 100
67 48.1 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.05 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

Instrument :

MSVOA_F

ClientSampleId :

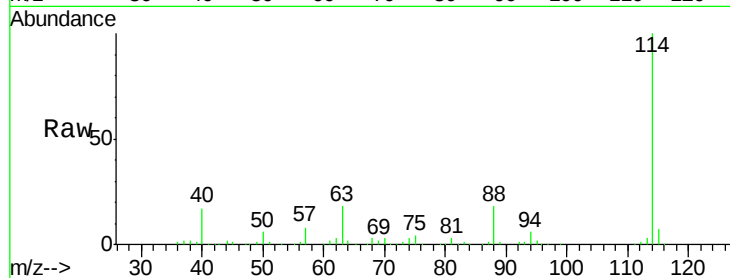
Tot Ion:114 Resp: 247576

Ion Ratio Lower Upper

114 100

63 18.1 0.0 37.8

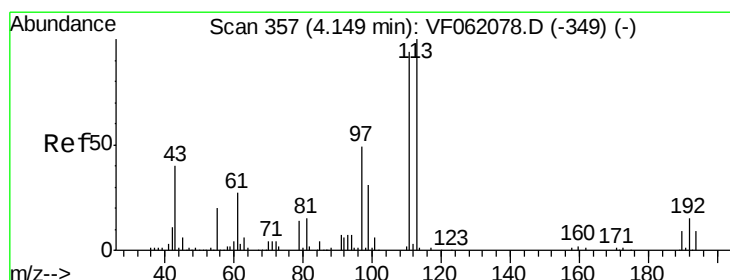
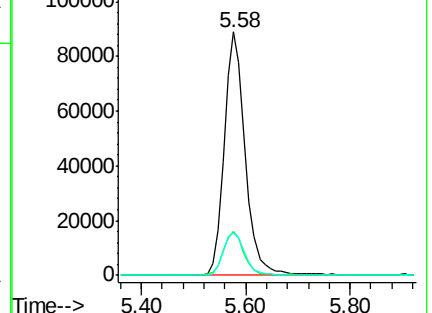
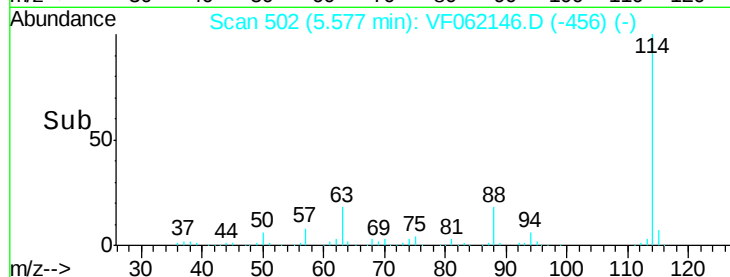
88 17.7 0.0 36.4



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



#35

Dibromofluoromethane

Concen: 46.605 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

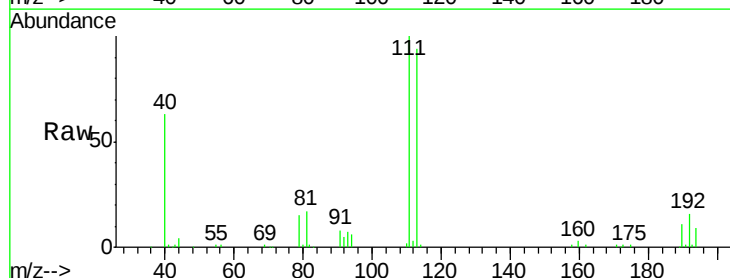
Tgt Ion:113 Resp: 78052

Ion Ratio Lower Upper

113 100

111 106.2 75.4 113.0

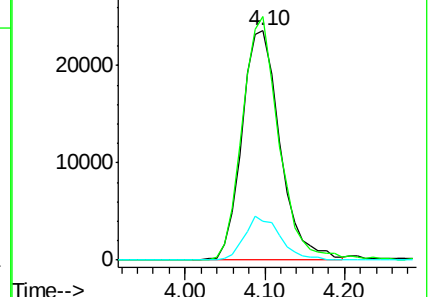
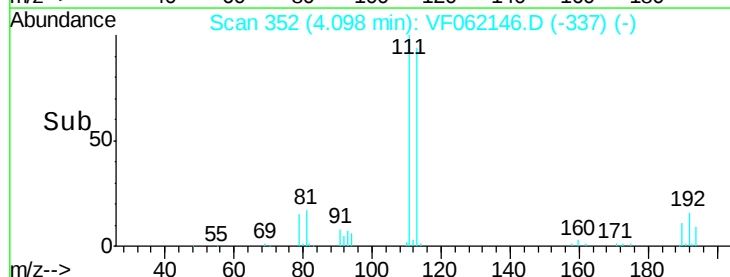
192 17.8 12.3 18.5

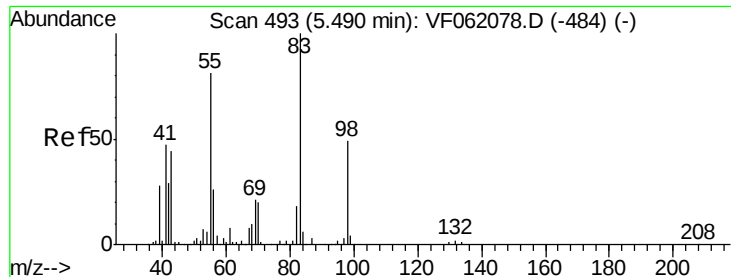


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

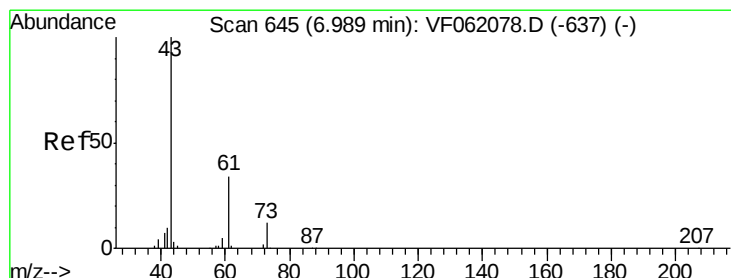
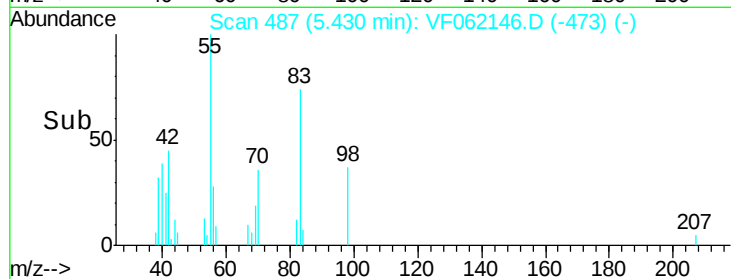
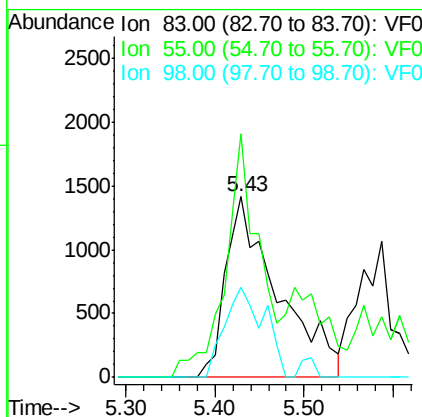
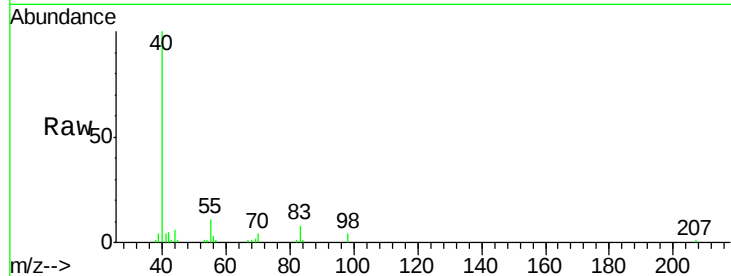




#39
Methylcyclohexane
Concen: 2.124 ug/l
RT: 5.43 min Scan# 487
Delta R.T. -0.06 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

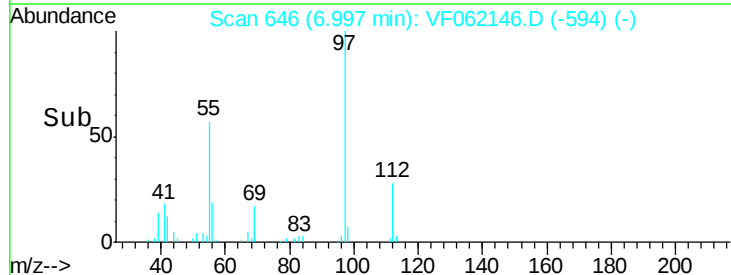
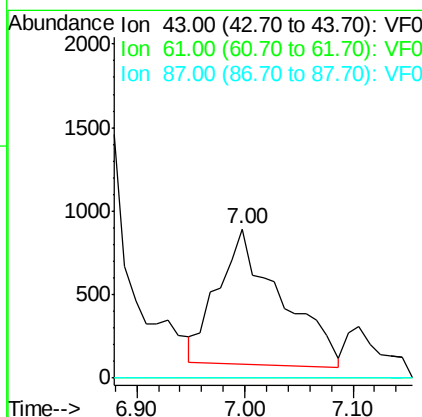
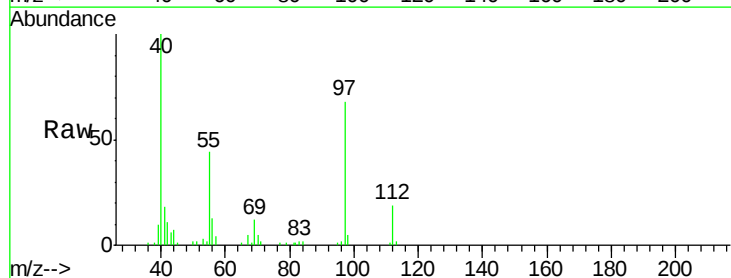
Instrument :
MSVOA_F
ClientSampled :

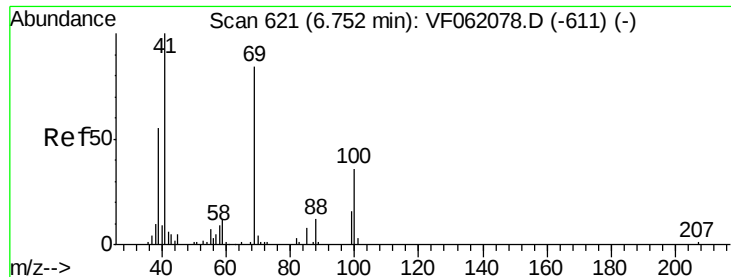
Tot Ion: 83 Resp: 5812
Ion Ratio Lower Upper
83 100
55 134.7 64.5 96.7#
98 49.6 39.1 58.7



#43
Isopropyl Acetate
Concen: 2.630 ug/l
RT: 7.00 min Scan# 646
Delta R.T. 0.01 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

Tgt Ion: 43 Resp: 3283
Ion Ratio Lower Upper
43 100
61 0.0 27.0 40.4#
87 0.0 0.4 0.6#

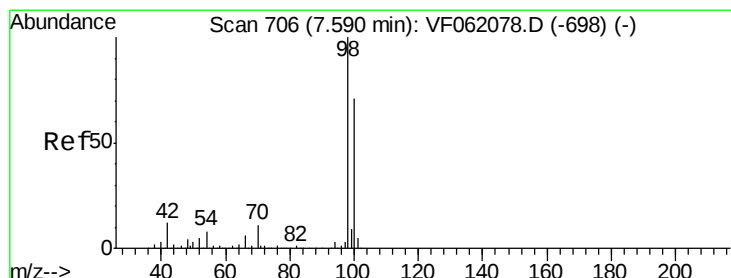
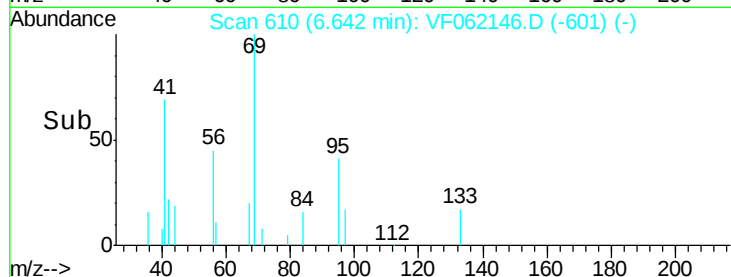
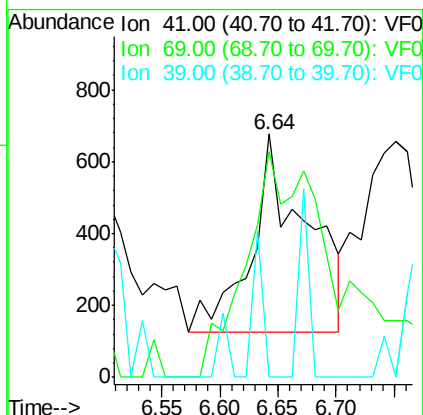
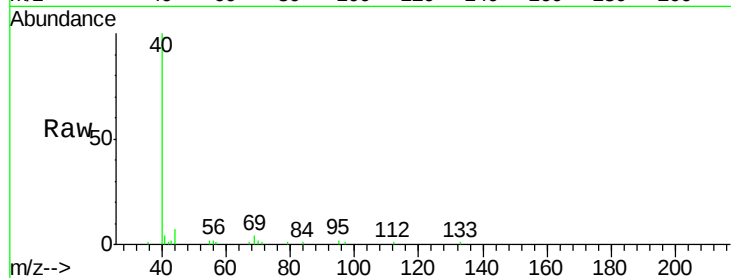




#48
Methvl methacrvlate
Concen: 2.525 ug/l
RT: 6.64 min Scan# 610
Delta R.T. -0.11 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

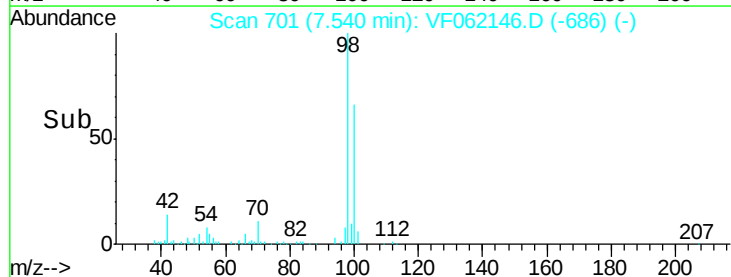
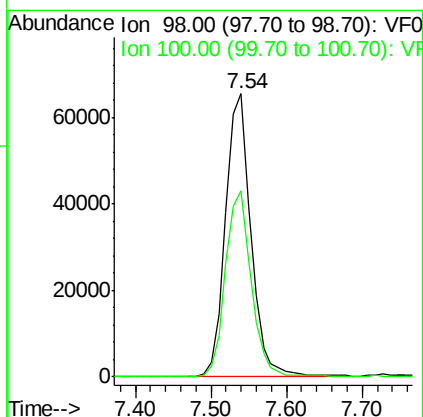
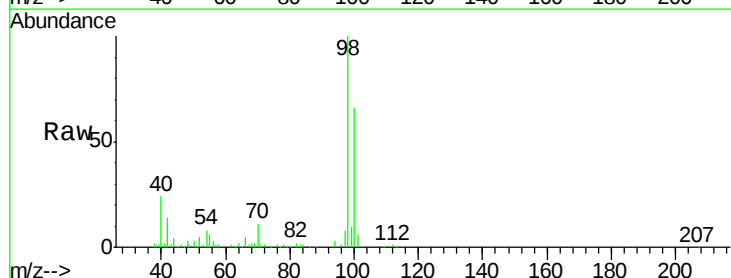
Instrument :
MSVOA_F
ClientSampleId :

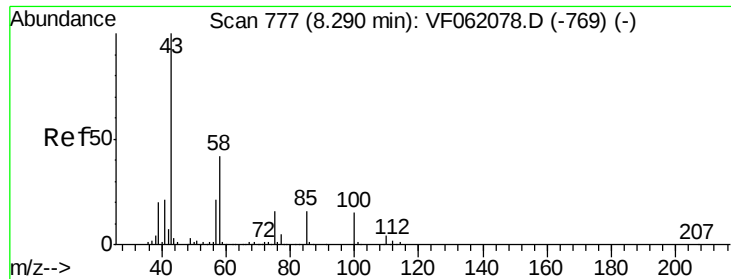
Tot Ion: 41 Resp: 1794
Ion Ratio Lower Upper
41 100
69 92.6 66.6 100.0
39 0.0 43.6 65.4#



#50
Toluene-d8
Concen: 30.572 ug/l
RT: 7.54 min Scan# 701
Delta R.T. -0.05 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

Tgt Ion: 98 Resp: 152837
Ion Ratio Lower Upper
98 100
100 65.8 57.0 85.6





#51

4-Methyl-2-Pentanone

Concen: 17.256 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

Instrument :

MSVOA_F

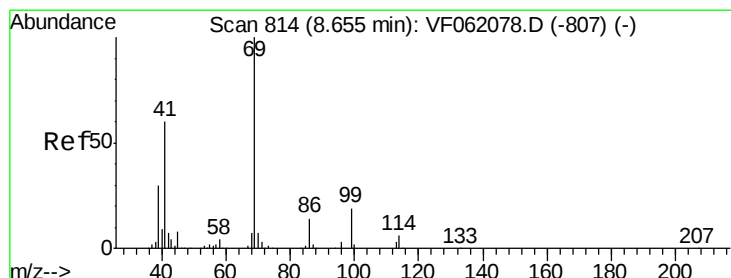
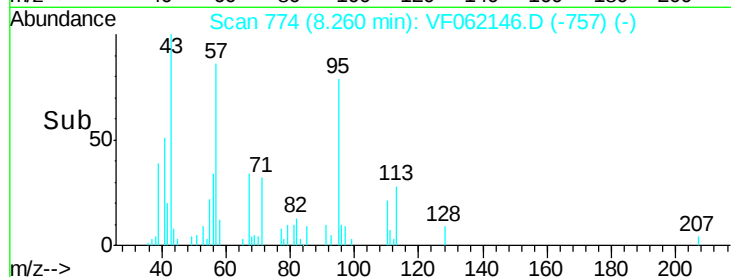
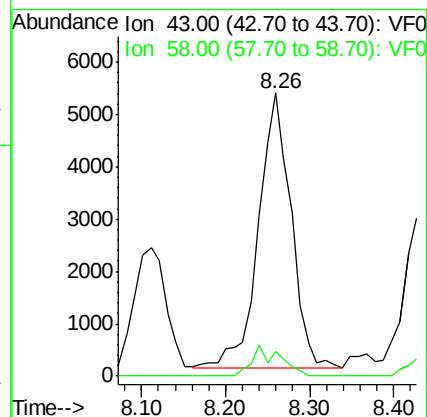
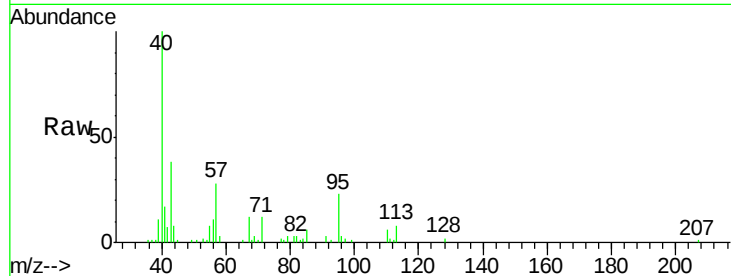
ClientSampleId :

Tot Ion: 43 Resp: 14415

Ion Ratio Lower Upper

43 100

58 8.7 33.8 50.8#



#56

Ethyl methacrylate

Concen: 12.030 ug/l

RT: 8.60 min Scan# 809

Delta R.T. -0.05 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

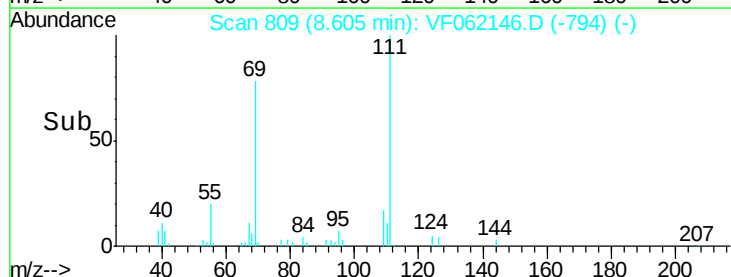
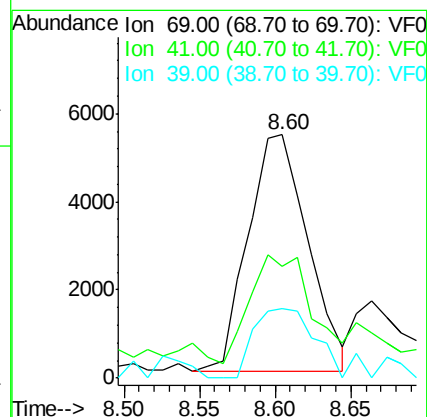
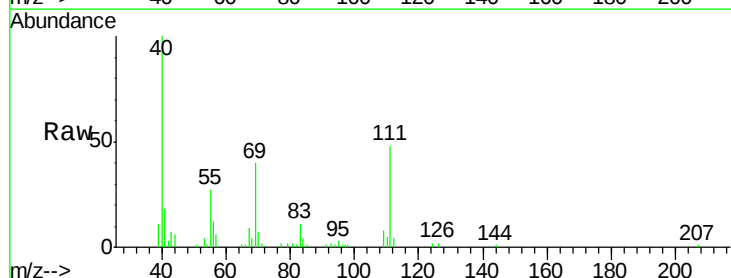
Tgt Ion: 69 Resp: 14922

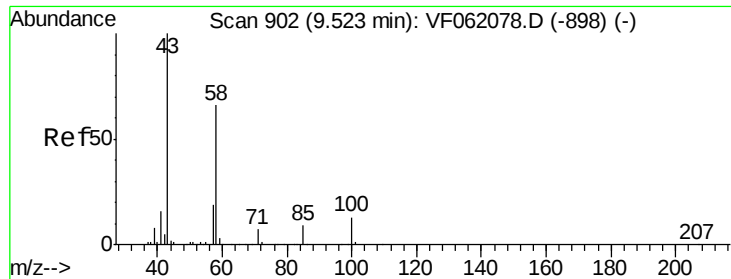
Ion Ratio Lower Upper

69 100

41 45.9 48.2 72.2#

39 28.6 24.0 36.0

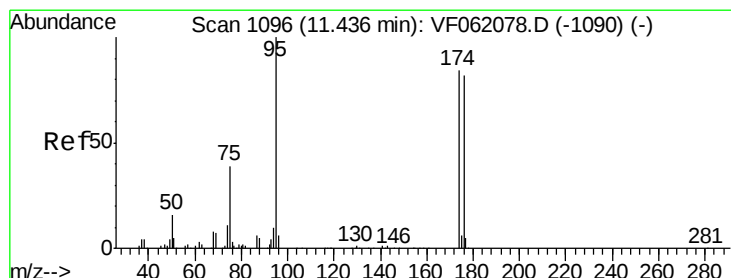
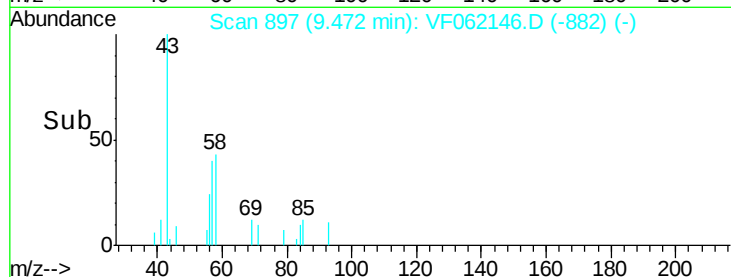
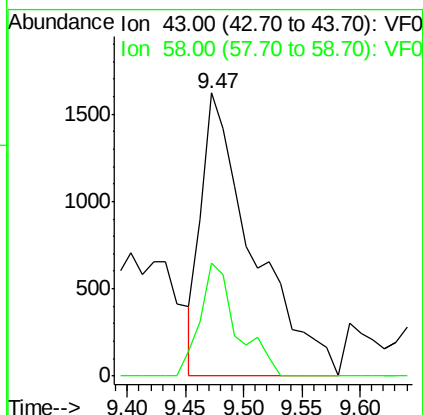
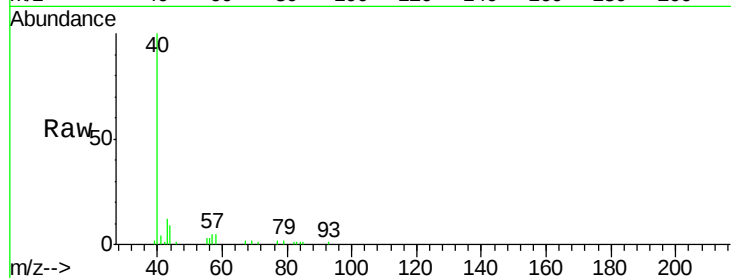




#59
2-Hexanone
Concen: 8.159 ug/l
RT: 9.47 min Scan# 897
Delta R.T. -0.05 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

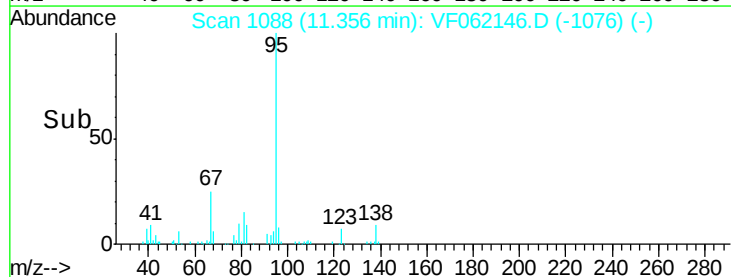
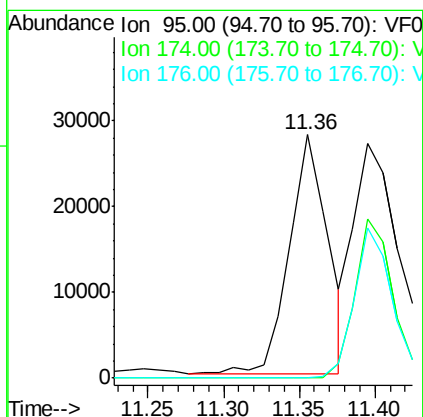
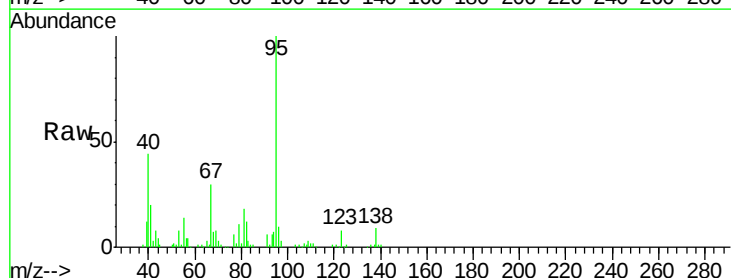
Instrument :
MSVOA_F
ClientSampleId :

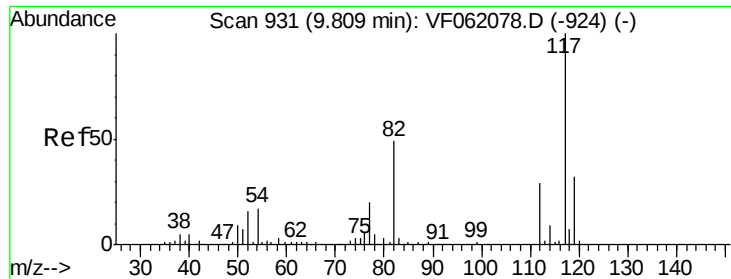
Tot Ion: 43 Resp: 4995
Ion Ratio Lower Upper
43 100
58 39.9 28.8 86.4



#62
4-Bromofluorobenzene
Concen: 25.484 ug/l
RT: 11.36 min Scan# 1088
Delta R.T. -0.08 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

Tgt Ion: 95 Resp: 49184
Ion Ratio Lower Upper
95 100
174 0.0 0.0 168.2
176 0.0 0.0 164.2

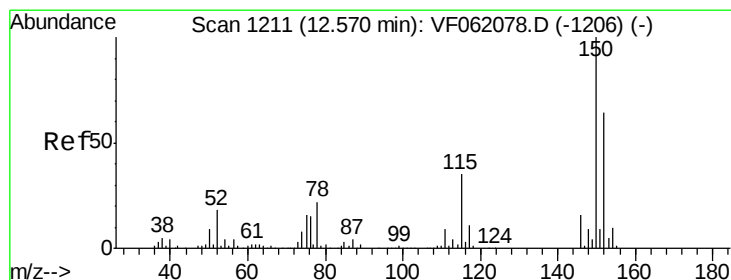
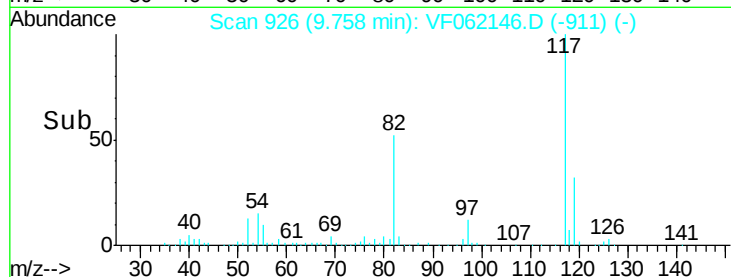
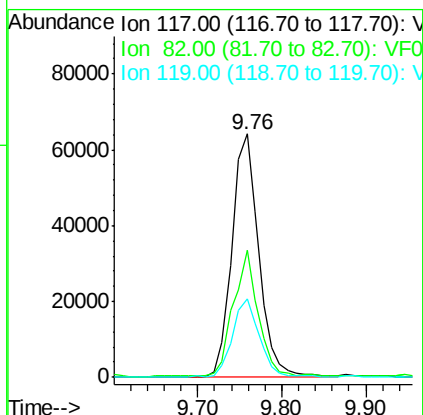
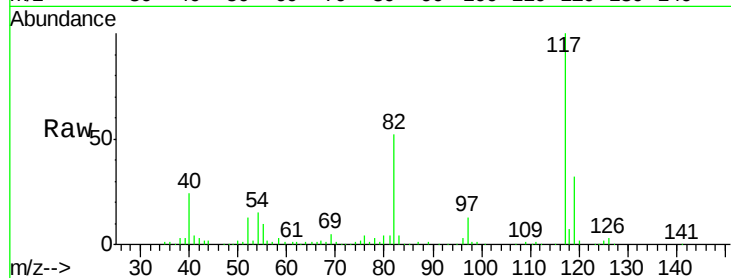




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.05 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

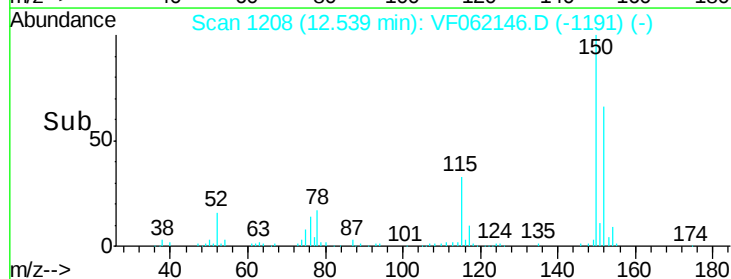
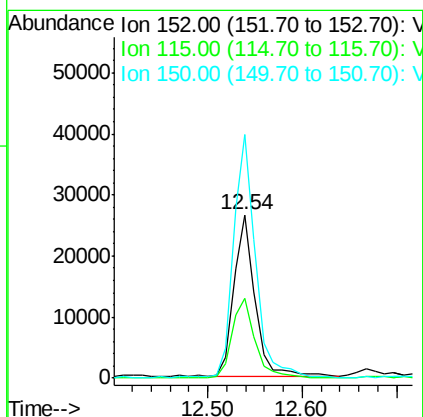
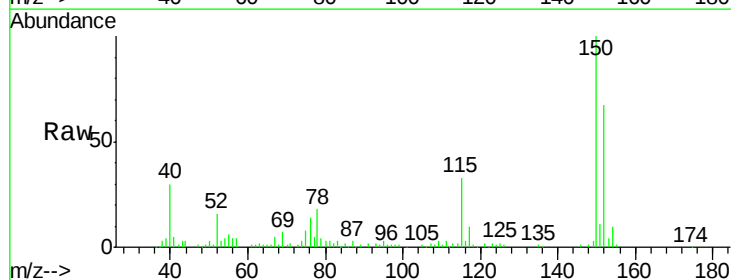
Instrument :
MSVOA_F
ClientSampleId :

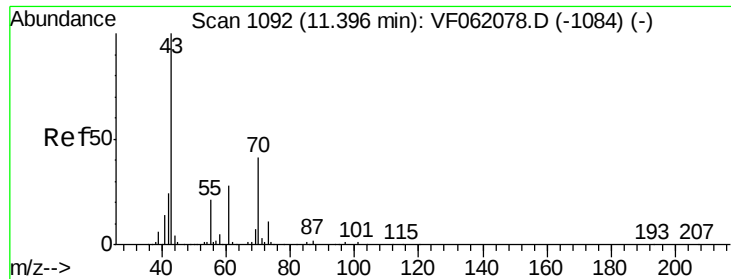
Tot Ion:117 Resp: 143132
Ion Ratio Lower Upper
117 100
82 52.3 39.2 58.8
119 32.1 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

Tgt Ion:152 Resp: 41090
Ion Ratio Lower Upper
152 100
115 49.1 27.7 83.1
150 149.3 0.0 313.2





#74

N-amvl acetate

Concen: 10.240 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.04 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 7055

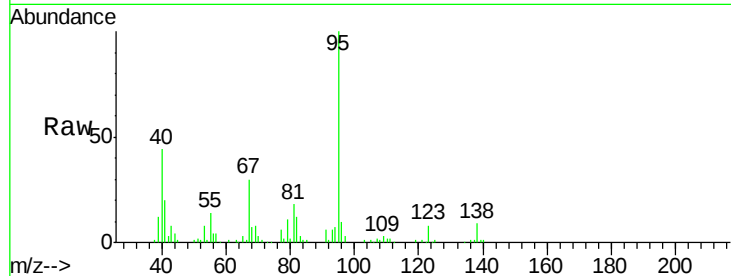
Ion Ratio Lower Upper

43 100

70 40.2 32.9 49.3

55 172.7 17.1 25.7#

61 11.3 22.2 33.2#

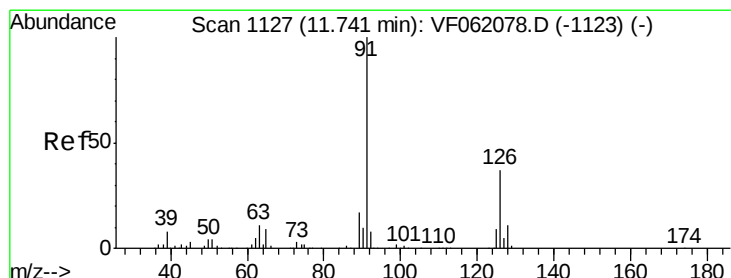
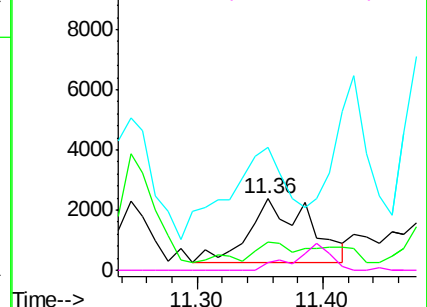
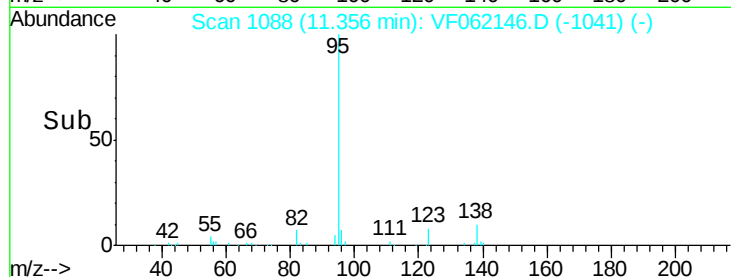


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#79

2-Chlorotoluene

Concen: 1.459 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.14 min

Lab File: VF062146.D

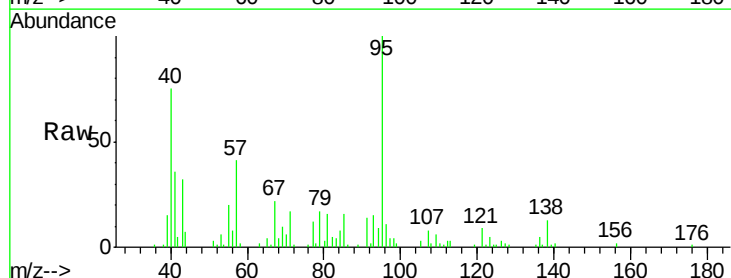
Acq: 26 Mar 2019 15:20

Tgt Ion: 91 Resp: 2723

Ion Ratio Lower Upper

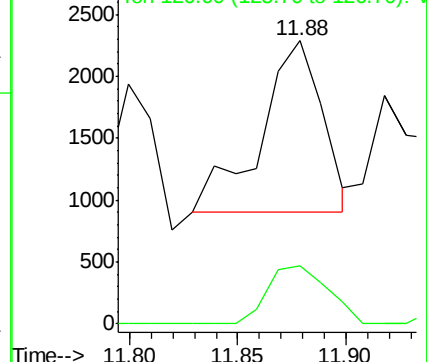
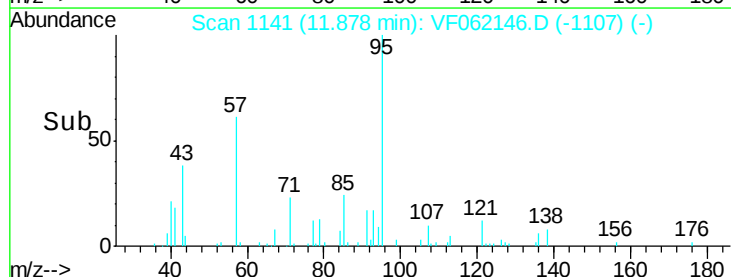
91 100

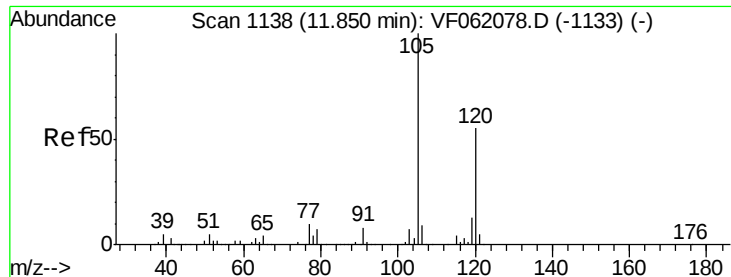
126 20.5 18.3 54.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#80

1,3,5-Trimethylbenzene

Concen: 1.175 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.04 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

Instrument :

MSVOA_F

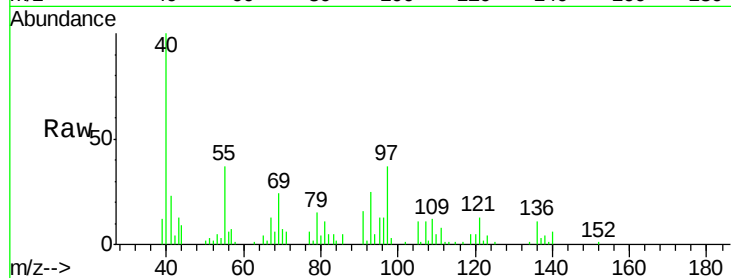
ClientSampleId :

Tot Ion:105 Resp: 2795

Ion Ratio Lower Upper

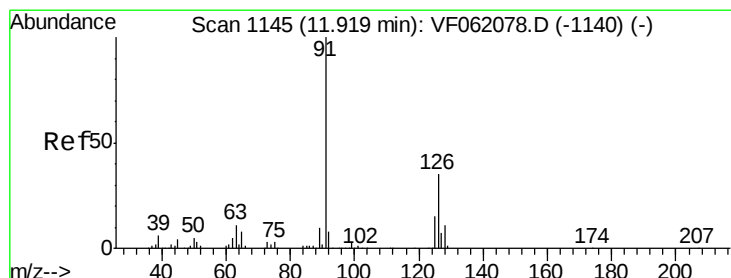
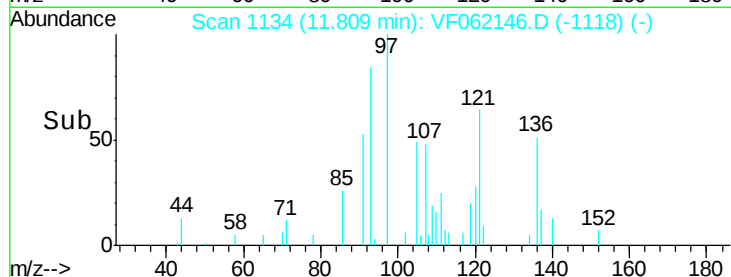
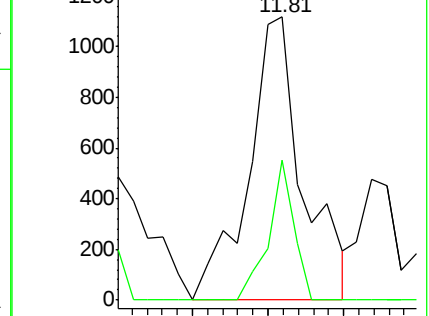
105 100

120 49.6 27.8 83.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#82

4-Chlorotoluene

Concen: 2.416 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.04 min

Lab File: VF062146.D

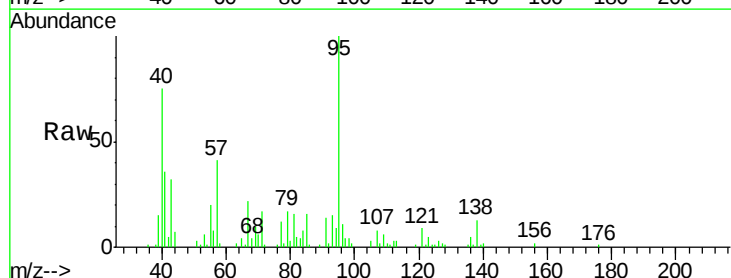
Acq: 26 Mar 2019 15:20

Tgt Ion: 91 Resp: 4622

Ion Ratio Lower Upper

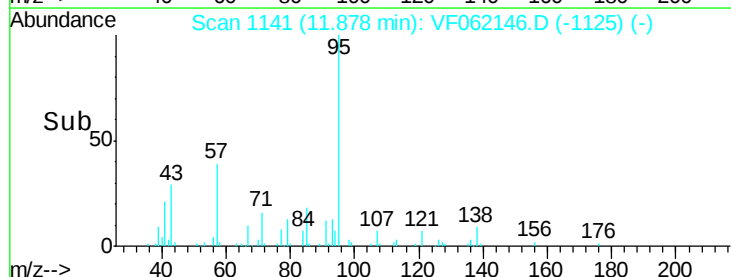
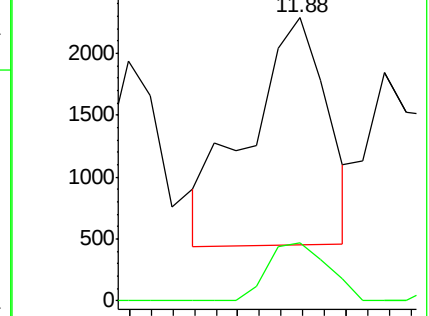
91 100

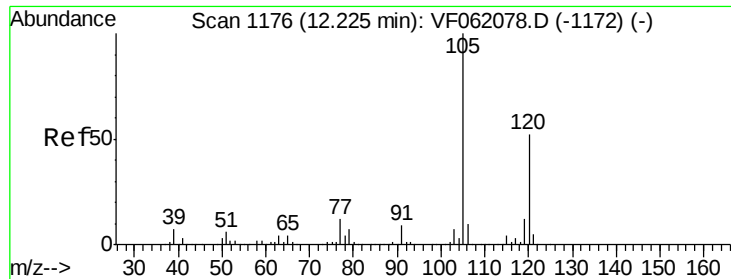
126 20.5 17.2 51.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#84

1,2,4-Trimethylbenzene

Concen: 1.439 ug/l

RT: 12.19 min Scan# 1173

Delta R.T. -0.03 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

Instrument :

MSVOA_F

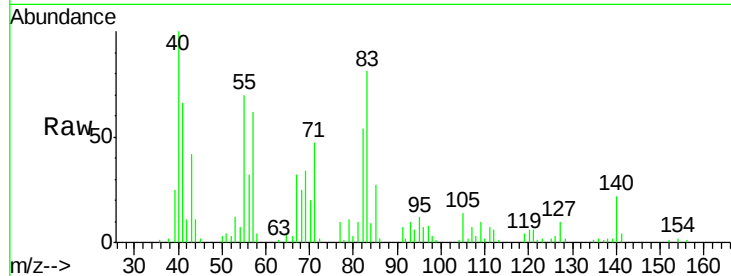
ClientSampleId :

Tot Ion:105 Resp: 3356

Ion Ratio Lower Upper

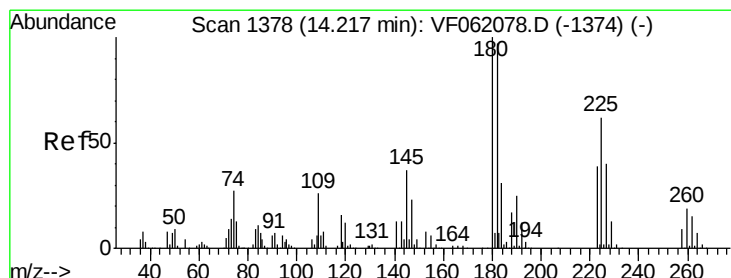
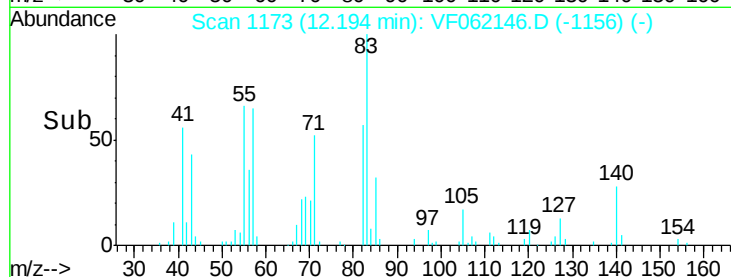
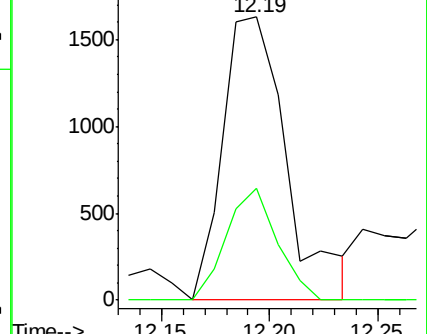
105 100

120 39.5 26.1 78.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 2.843 ug/l

RT: 14.19 min Scan# 1375

Delta R.T. -0.03 min

Lab File: VF062146.D

Acq: 26 Mar 2019 15:20

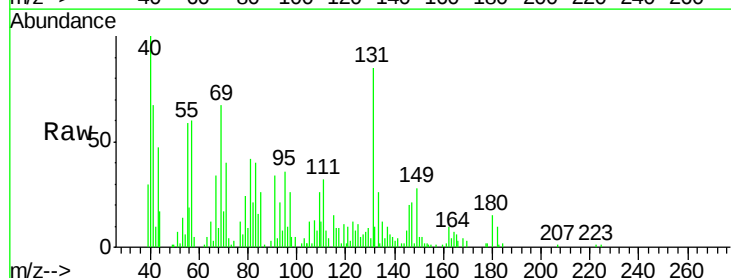
Tgt Ion:180 Resp: 2442

Ion Ratio Lower Upper

180 100

182 70.6 48.7 146.1

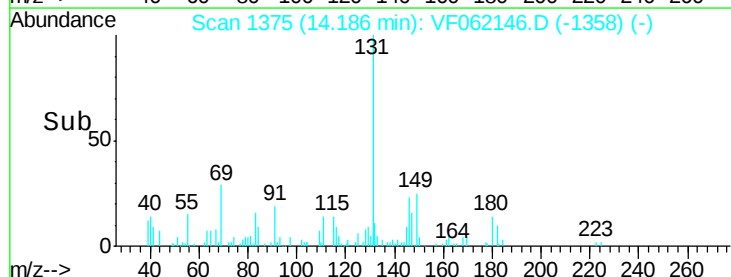
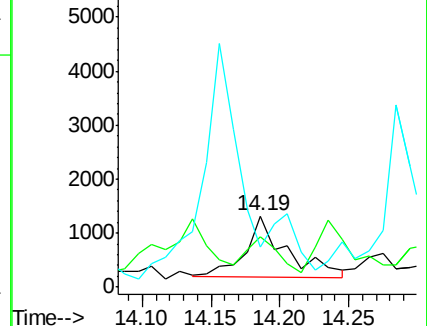
145 56.9 18.3 54.8#

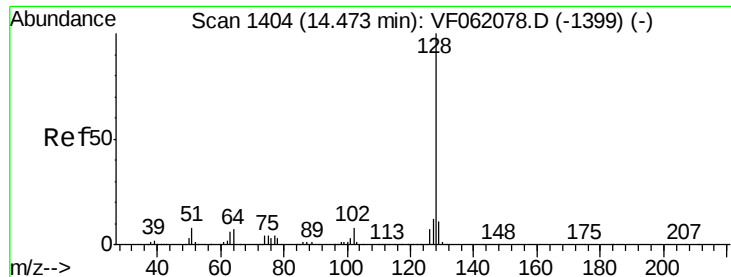


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

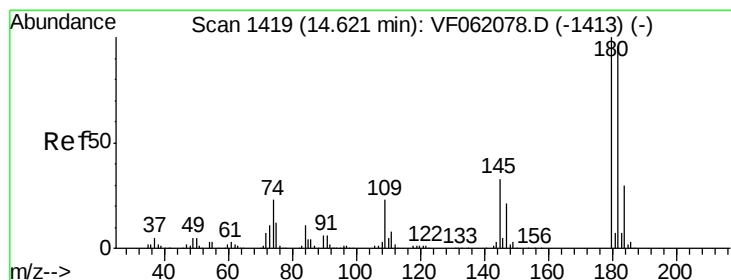
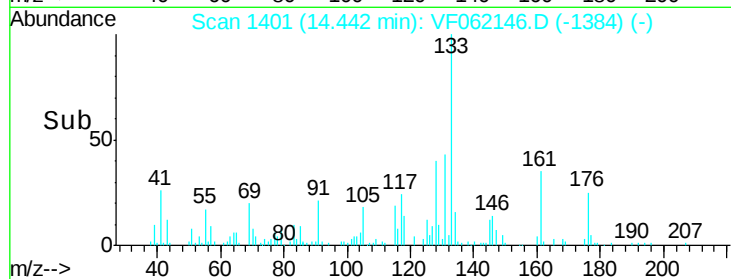
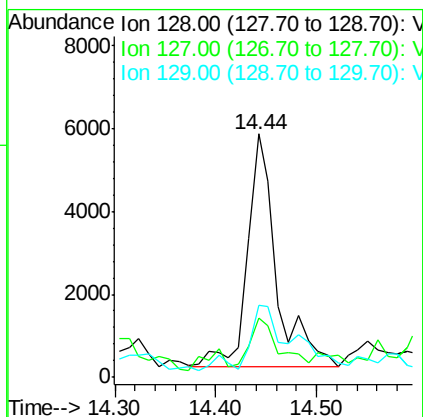
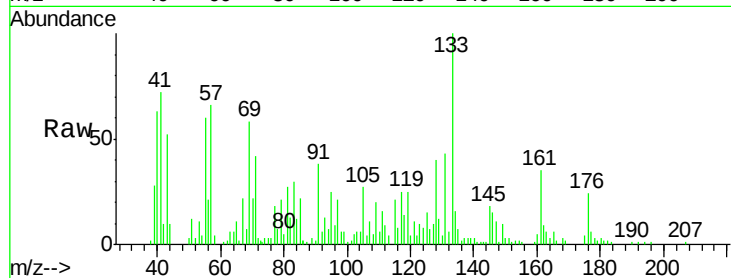




#95
Naphthalene
Concen: 7.478 ug/l
RT: 14.44 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 11255
Ion Ratio Lower Upper
128 100
127 24.3 9.5 14.3#
129 29.9 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 3.449 ug/l
RT: 14.59 min Scan# 1416
Delta R.T. -0.03 min
Lab File: VF062146.D
Acq: 26 Mar 2019 15:20

Tgt Ion:180 Resp: 2773
Ion Ratio Lower Upper
180 100
182 69.8 47.9 143.7
145 48.6 16.6 49.7

