

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061095.D
 Acq On : 19 Dec 2018 20:03
 Operator : VA/AP
 Sample : J6388-15
 Misc : 4.39g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:25:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	192762	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	351656	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	281033	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	100784	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	126008	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	
35) Dibromofluoromethane	4.12	113	134114	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
50) Toluene-d8	7.55	98	279817	35.05	ug/l	0.00
Spiked Amount			Recovery	=	70.10%	
62) 4-Bromofluorobenzene	11.41	95	106604	28.97	ug/l	0.00
Spiked Amount			Recovery	=	57.94%	

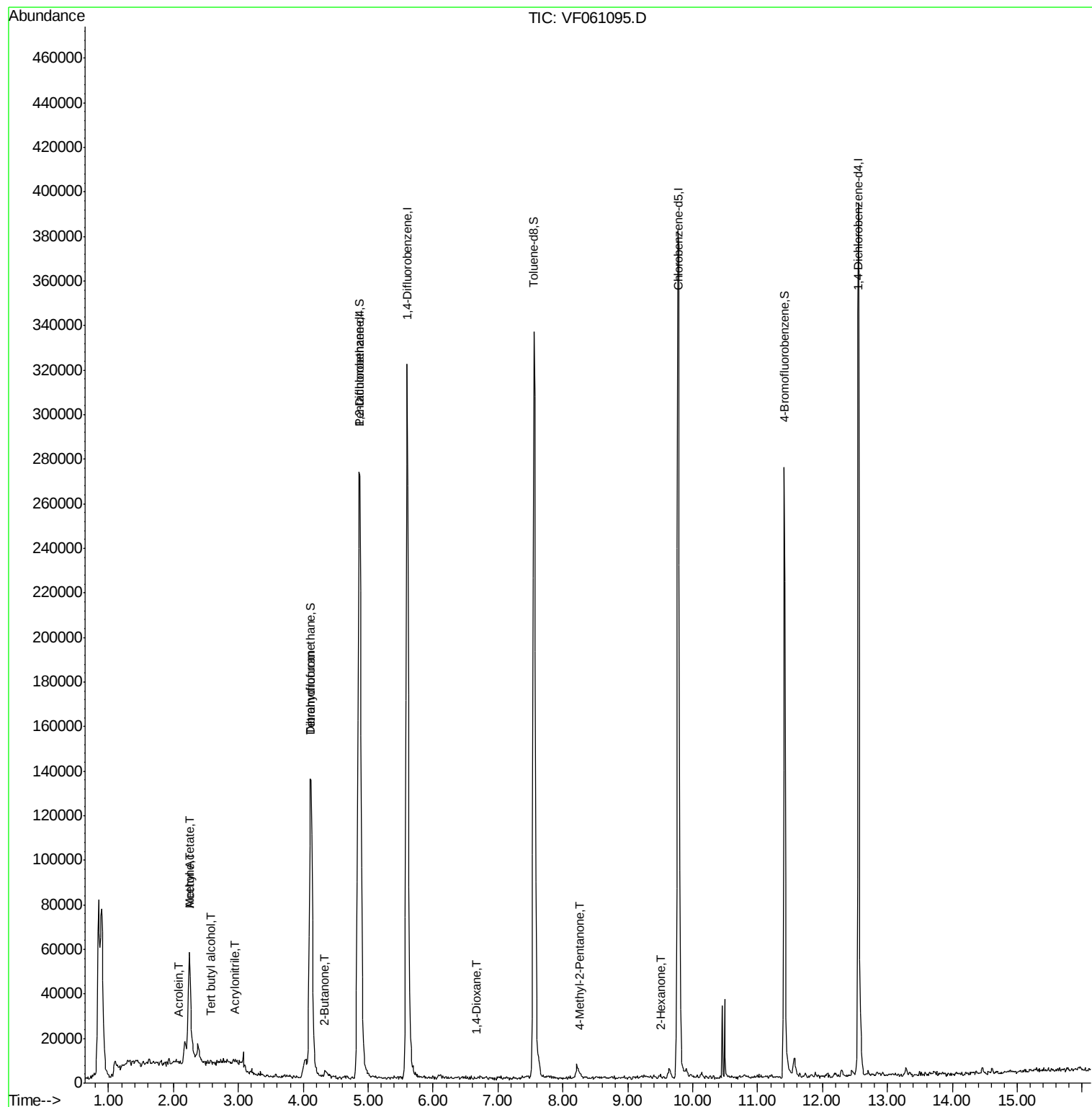
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	147	1.469	ug/l #	1
13) Acrolein	2.08	56	253	3.500	ug/l	96
15) Acrylonitrile	2.94	53	247	1.068	ug/l #	55
16) Acetone	2.25	43	87301	176.142	ug/l	97
18) Methyl Acetate	2.25	43	86676	84.528	ug/l #	66
20) Methylene Chloride	2.26	84	5274	Below Cal		87
25) 2-Butanone	4.34	43	6223	7.742	ug/l #	81
29) Tetrahydrofuran	4.10	42	625	1.910	ug/l #	37
49) 1,4-Dioxane	6.67	88	62	5.972	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	1906	1.356	ug/l #	72
59) 2-Hexanone	9.51	43	1399	1.376	ug/l	91
70) Styrene	10.79	104	872	Below Cal		89
78) n-propylbenzene	11.60	91	574	Below Cal		81
87) 1,3-Dichlorobenzene	12.56	146	224	Below Cal	#	1

(#) = 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. -0.00 min

Lab File: VF061095.D

Acq: 19 Dec 2018 20:03

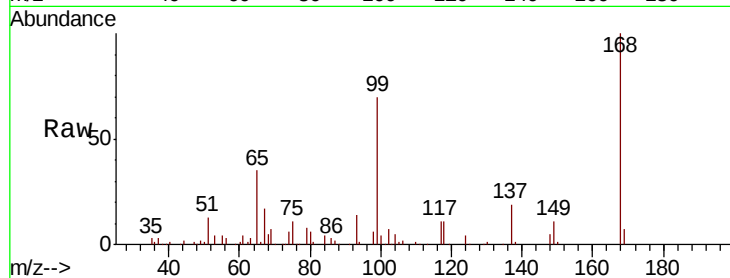
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 192762

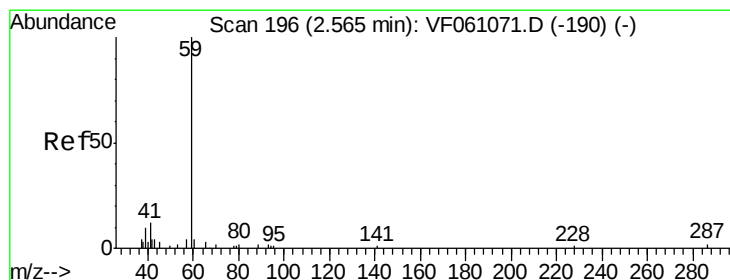
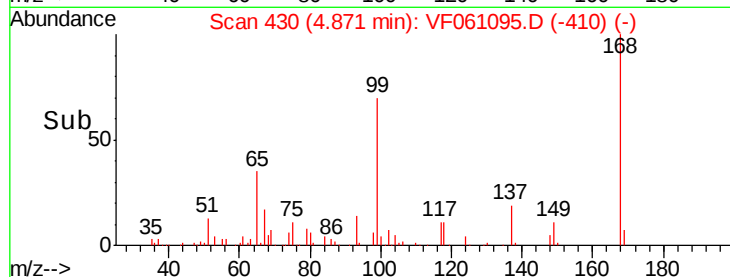
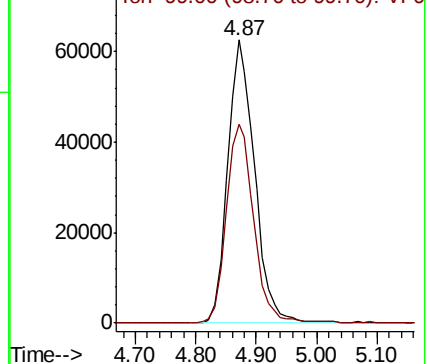
Ion Ratio Lower Upper

168 100

99 70.3 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 1.469 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF061095.D

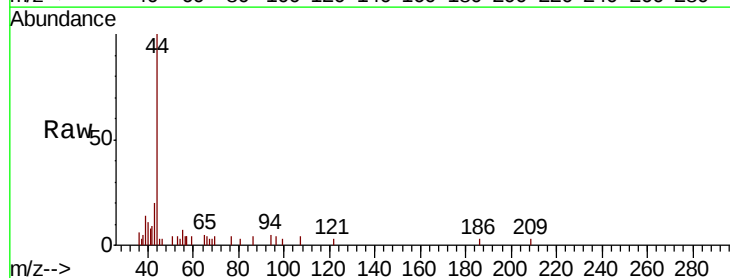
Acq: 19 Dec 2018 20:03

Tgt Ion: 59 Resp: 147

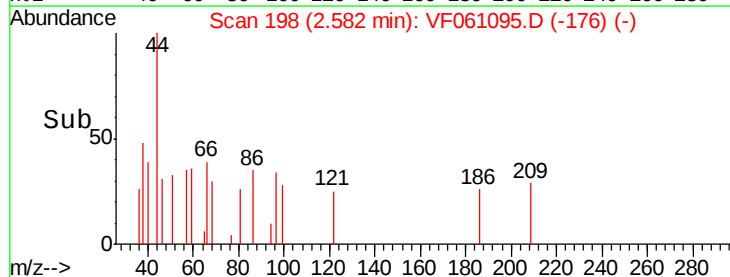
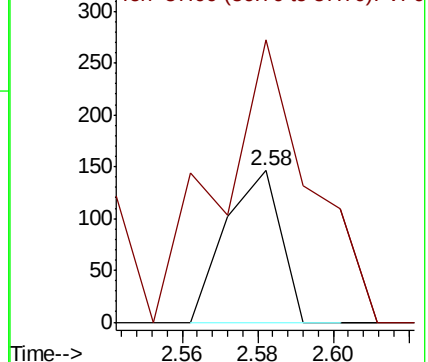
Ion Ratio Lower Upper

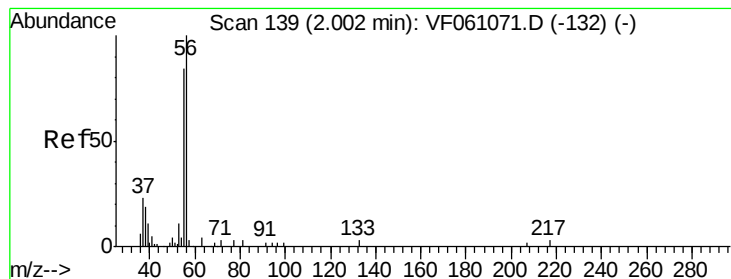
59 100

57 187.0 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 3.500 ug/l

RT: 2.08 min Scan# 147

Delta R.T. 0.08 min

Lab File: VF061095.D

Acq: 19 Dec 2018 20:03

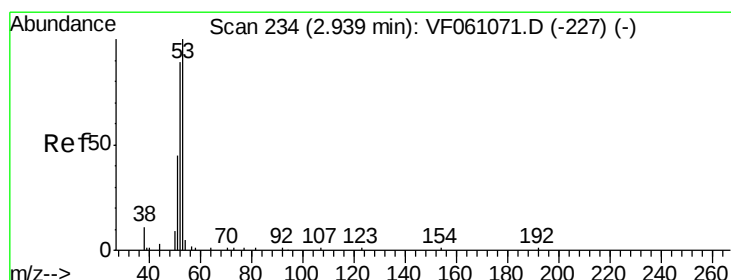
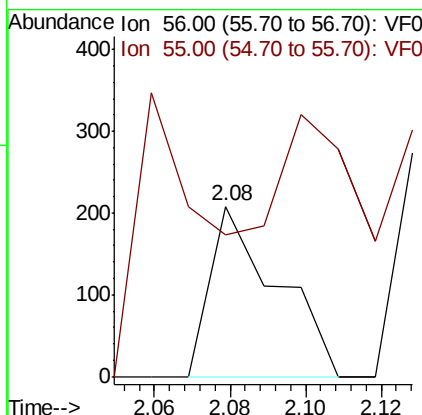
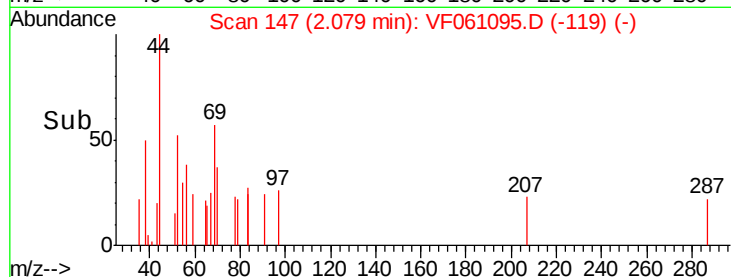
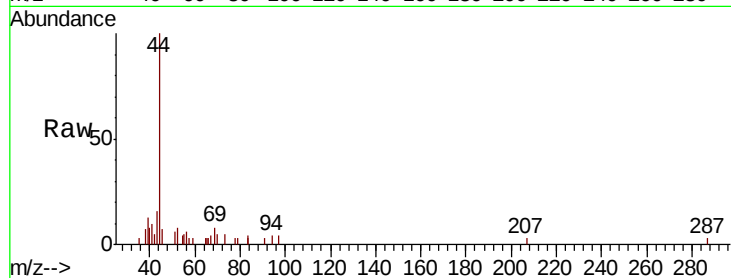
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 253

Ion Ratio Lower Upper

56 100

55 83.7 70.2 105.2



#15

Acrylonitrile

Concen: 1.068 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.00 min

Lab File: VF061095.D

Acq: 19 Dec 2018 20:03

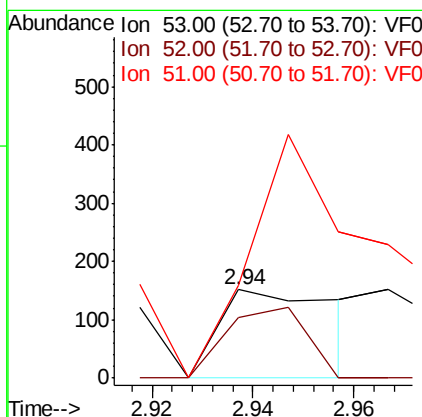
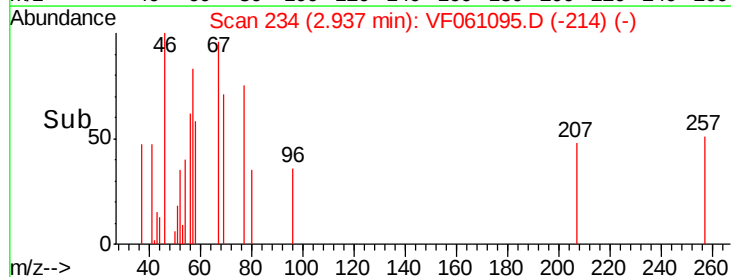
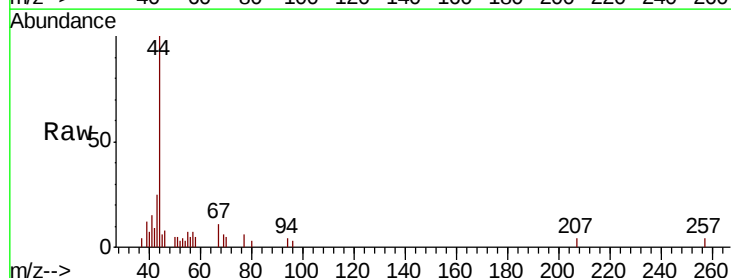
Tgt Ion: 53 Resp: 247

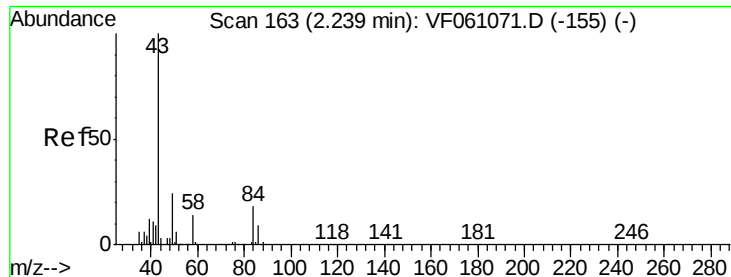
Ion Ratio Lower Upper

53 100

52 68.2 71.3 106.9#

51 104.6 36.8 55.2#

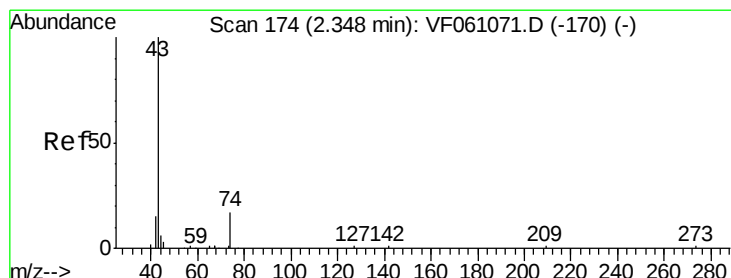
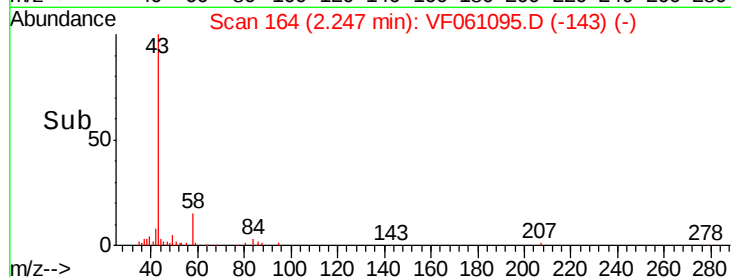
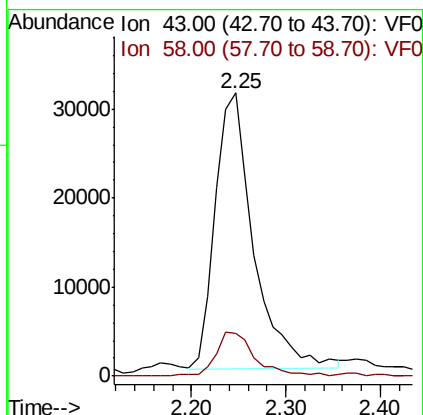
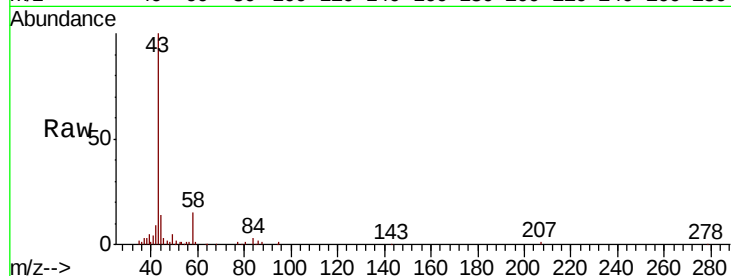




#16
Acetone
Concen: 176.142 ug/l
RT: 2.25 min Scan# 164
Delta R.T. 0.01 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

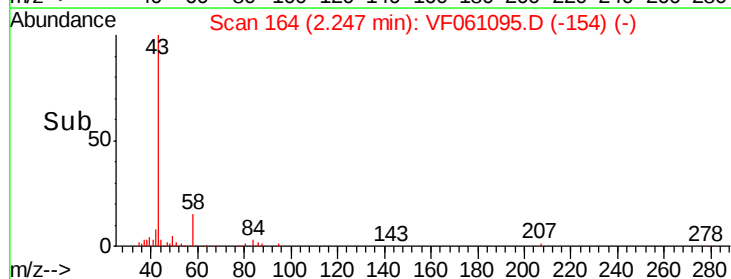
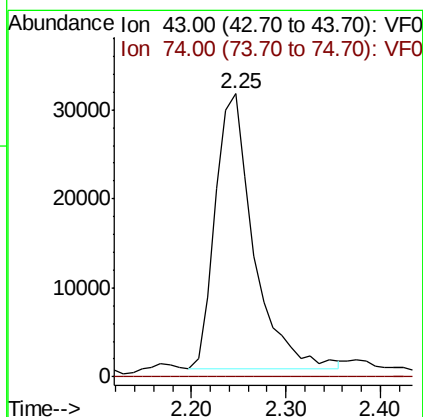
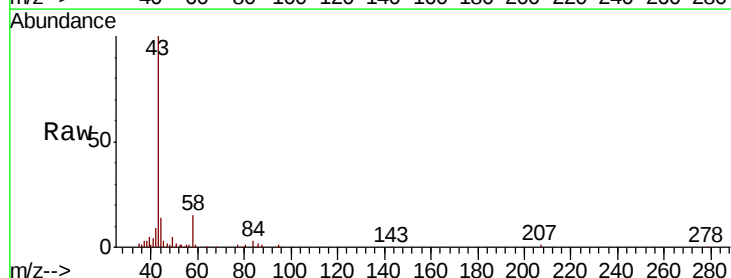
Instrument :
MSVOA_F
ClientSampleId :

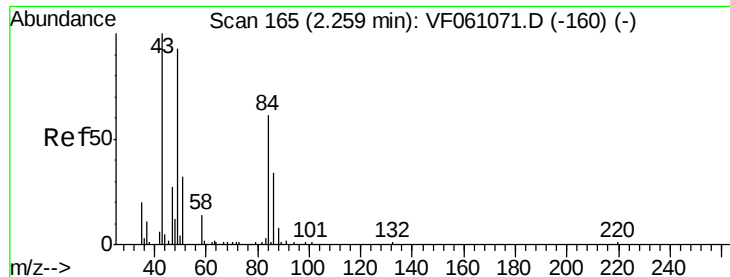
Tot Ion: 43 Resp: 87301
Ion Ratio Lower Upper
43 100
58 15.0 11.1 16.7



#18
Methyl Acetate
Concen: 84.528 ug/l
RT: 2.25 min Scan# 164
Delta R.T. -0.10 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

Tgt Ion: 43 Resp: 86676
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#

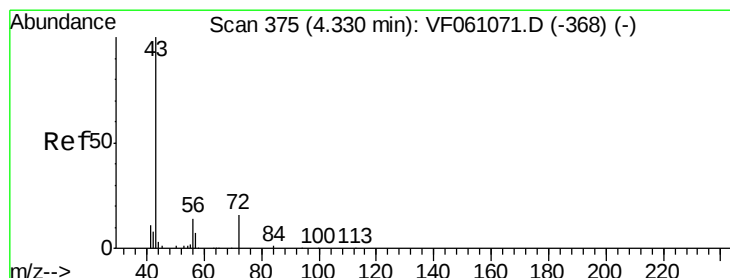
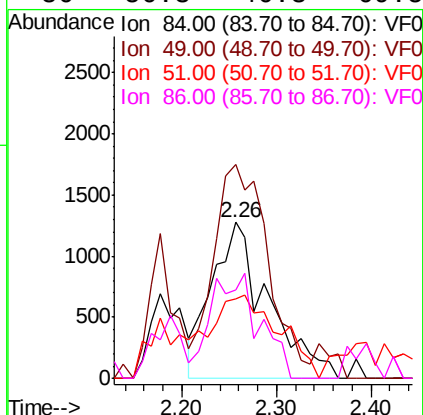
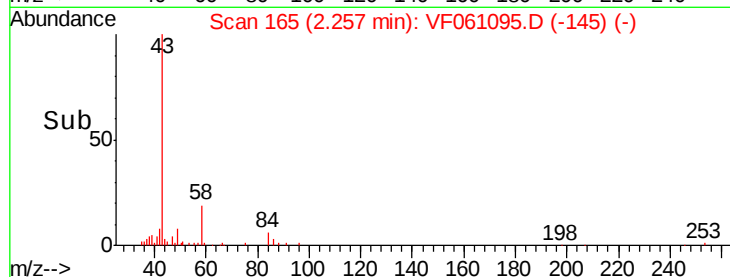
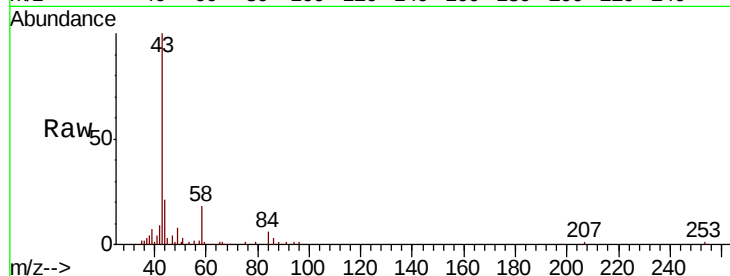




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 165
Delta R.T. -0.00 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

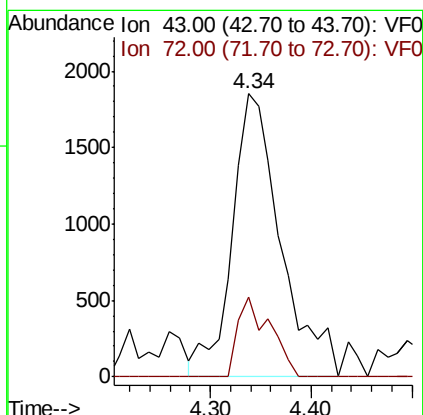
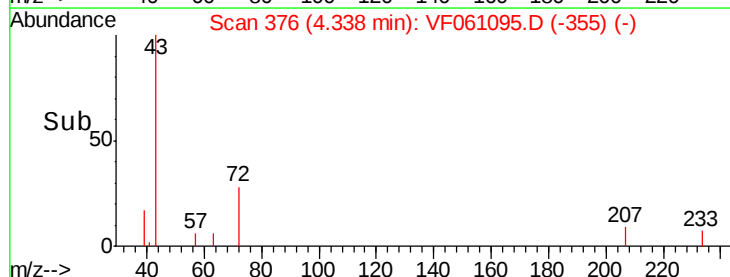
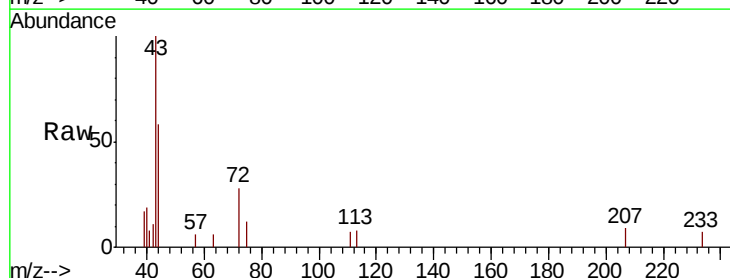
Instrument :
MSVOA_F
ClientSampleId :

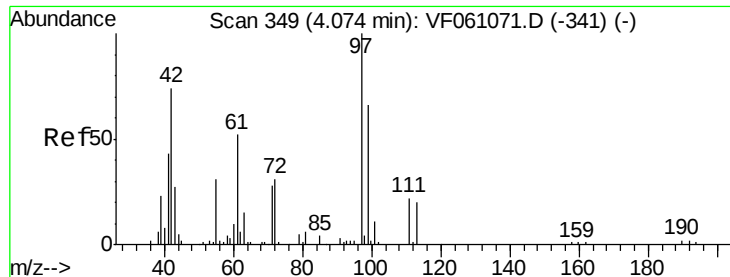
Tot Ion: 84 Resp: 5274
Ion Ratio Lower Upper
84 100
49 136.8 129.4 194.2
51 50.6 44.0 66.0
86 56.3 46.3 69.5



#25
2-Butanone
Concen: 7.742 ug/l
RT: 4.34 min Scan# 376
Delta R.T. 0.01 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

Tgt Ion: 43 Resp: 6223
Ion Ratio Lower Upper
43 100
72 28.0 15.6 23.4#

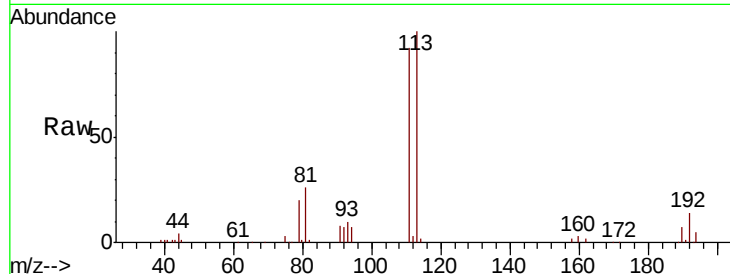




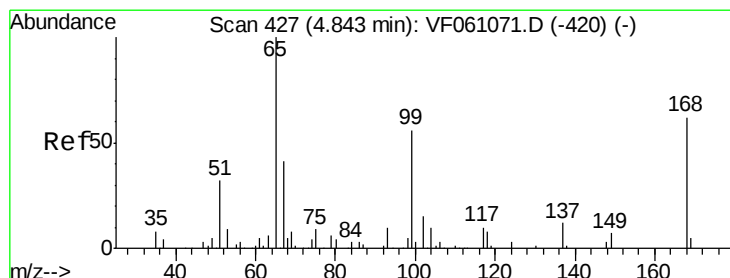
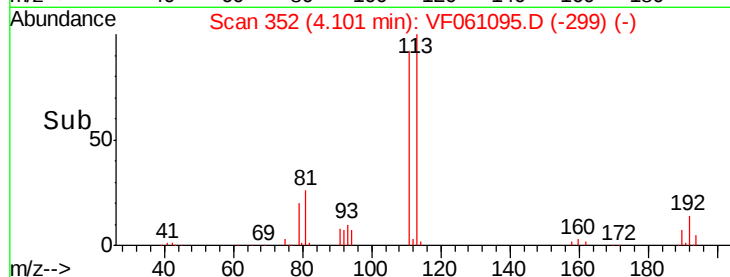
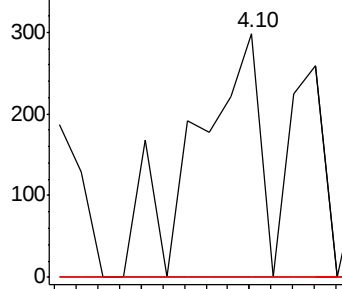
#29
Tetrahydrofuran
Concen: 1.910 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.03 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 42 Resp: 625
Ion Ratio Lower Upper
42 100
72 0.0 31.8 47.8#
71 0.0 29.7 44.5#

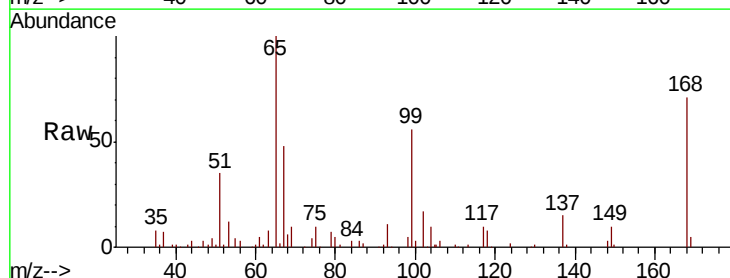


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

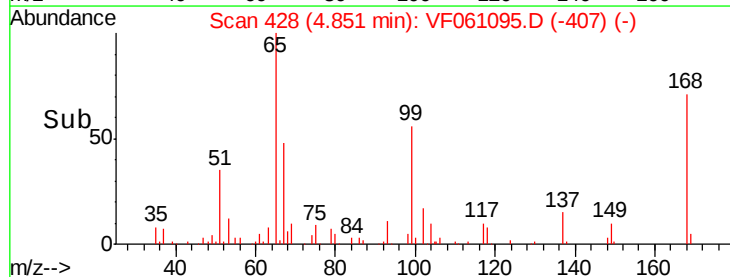
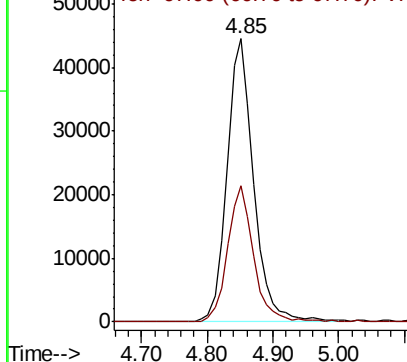


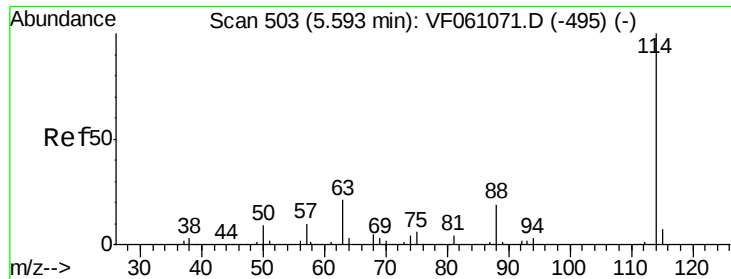
#33
1,2-Dichloroethane-d4
Concen: 50.825 ug/l
RT: 4.85 min Scan# 428
Delta R.T. 0.01 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

Tgt Ion: 65 Resp: 126008
Ion Ratio Lower Upper
65 100
67 48.0 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

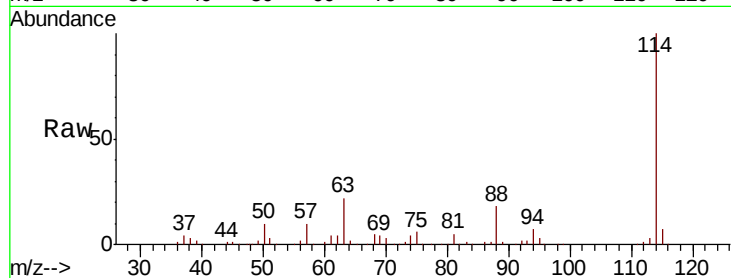




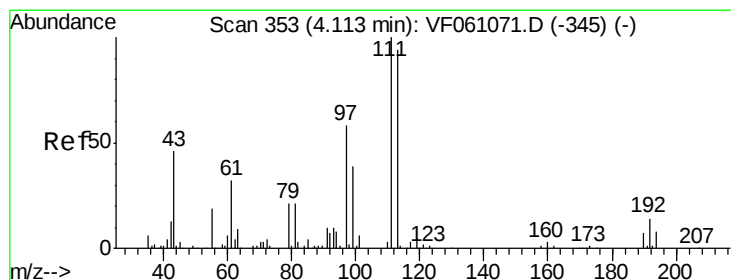
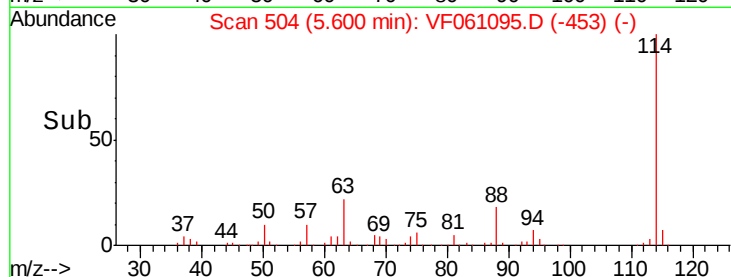
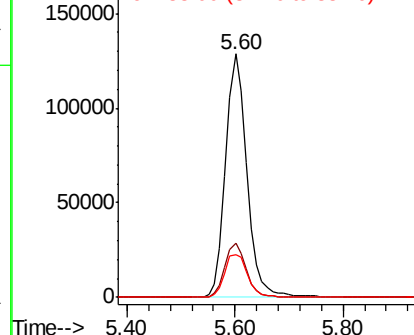
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.60 min Scan# 504
Delta R.T. 0.01 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:114 Resp: 351656
Ion Ratio Lower Upper
114 100
63 22.4 0.0 41.6
88 17.5 0.0 38.0

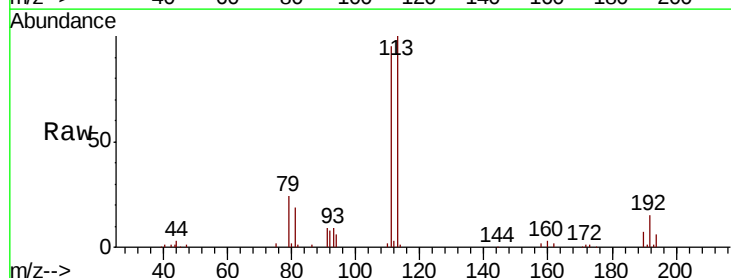


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0

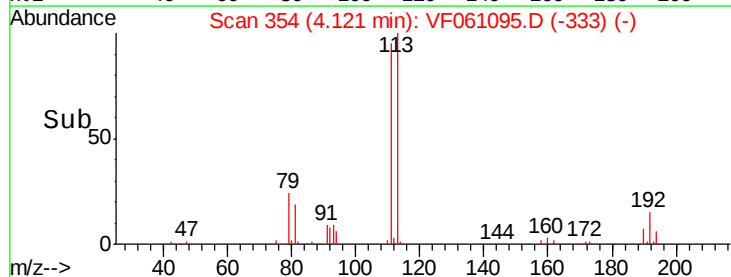
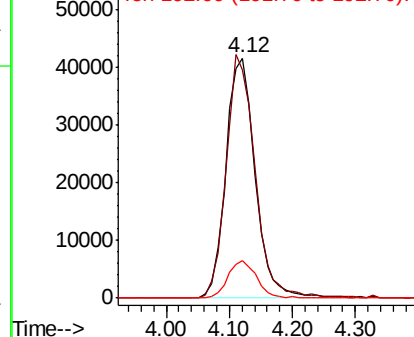


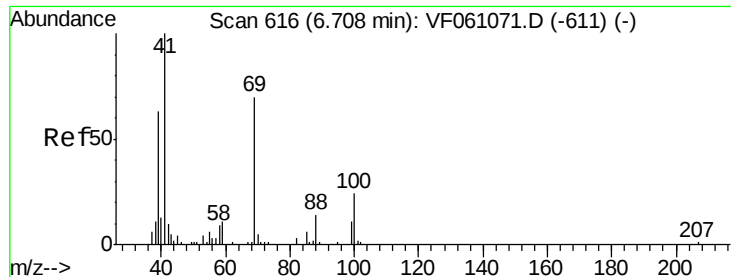
#35
Dibromofluoromethane
Concen: 47.609 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

Tgt Ion:113 Resp: 134114
Ion Ratio Lower Upper
113 100
111 95.0 85.2 127.8
192 15.4 12.8 19.2



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

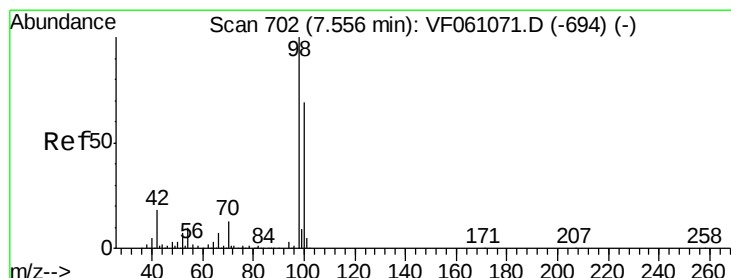
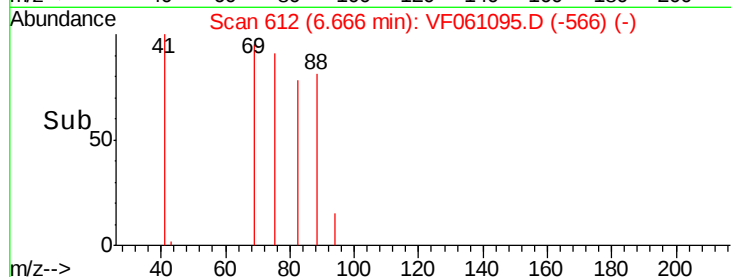
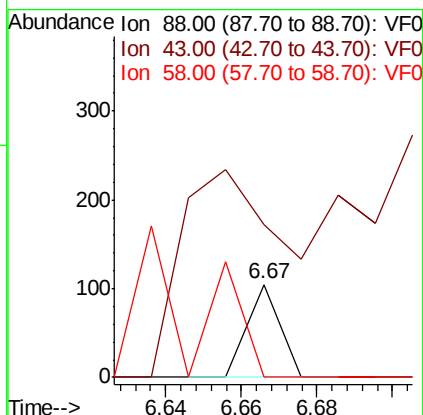
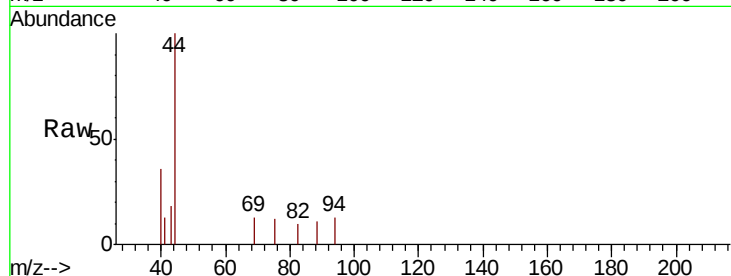




#49
1,4-Dioxane
Concen: 5.972 ug/l
RT: 6.67 min Scan# 612
Delta R.T. -0.04 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

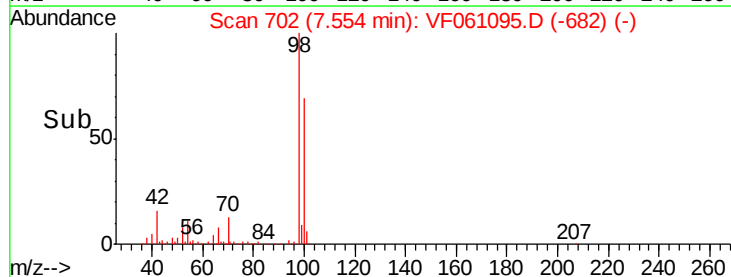
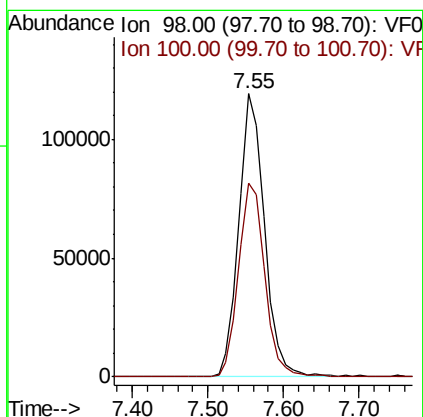
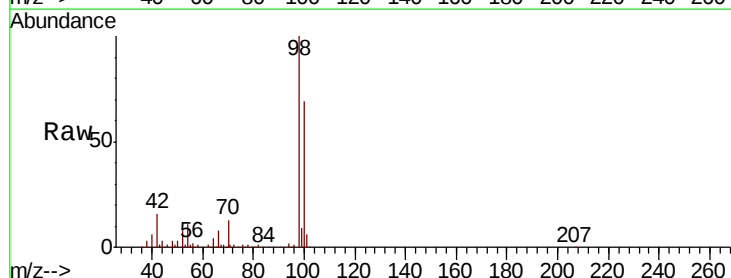
Instrument :
MSVOA_F
ClientSampleId :

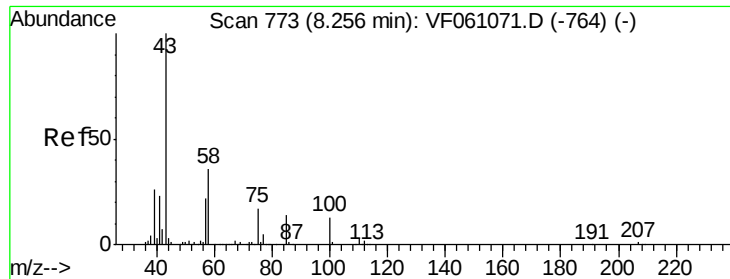
Tot Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 163.8 33.3 49.9#
58 0.0 53.2 79.8#



#50
Toluene-d8
Concen: 35.052 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.00 min
Lab File: VF061095.D
Acq: 19 Dec 2018 20:03

Tgt Ion: 98 Resp: 279817
Ion Ratio Lower Upper
98 100
100 68.7 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 1.356 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF061095.D

Acq: 19 Dec 2018 20:03

Instrument :

MSVOA_F

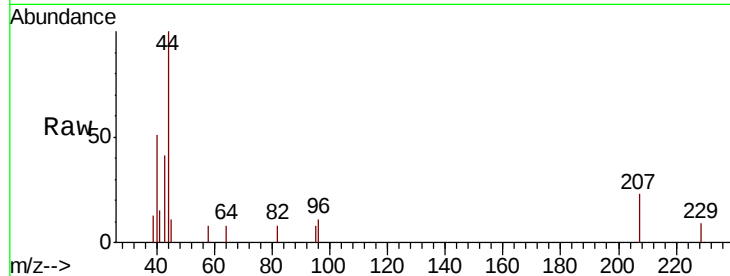
ClientSampleId :

Tot Ion: 43 Resp: 1906

Ion Ratio Lower Upper

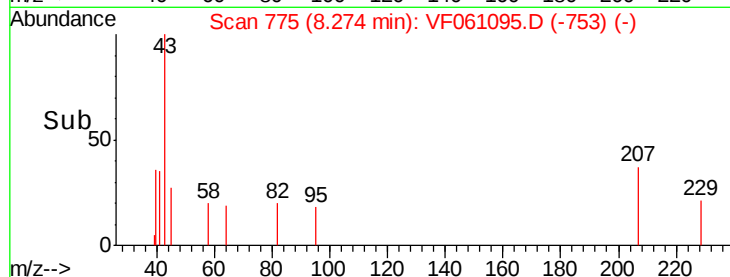
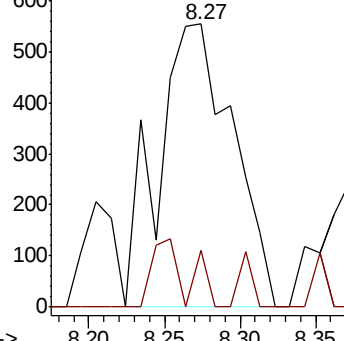
43 100

58 20.0 29.1 43.7#

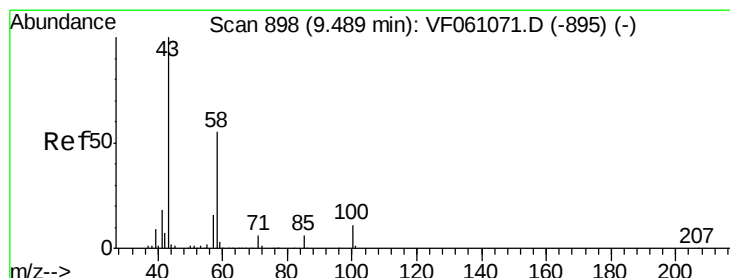


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#59

2-Hexanone

Concen: 1.376 ug/l

RT: 9.51 min Scan# 900

Delta R.T. 0.02 min

Lab File: VF061095.D

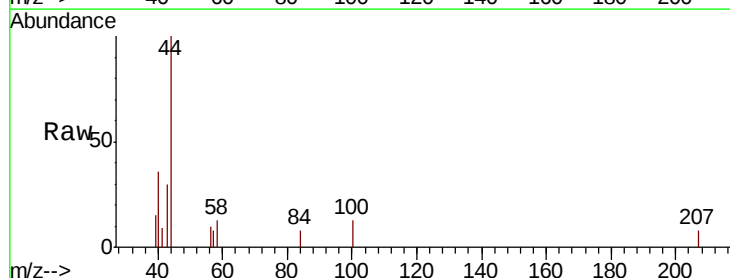
Acq: 19 Dec 2018 20:03

Tgt Ion: 43 Resp: 1399

Ion Ratio Lower Upper

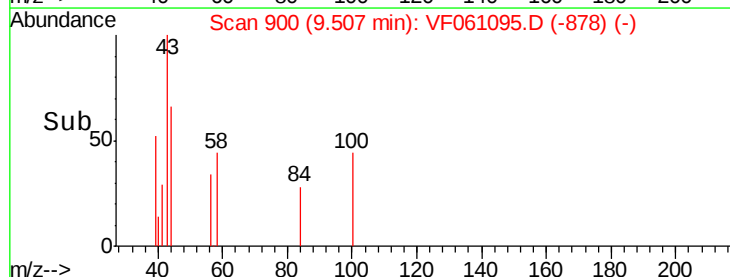
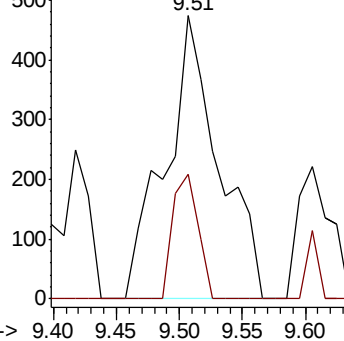
43 100

58 44.0 25.1 75.2

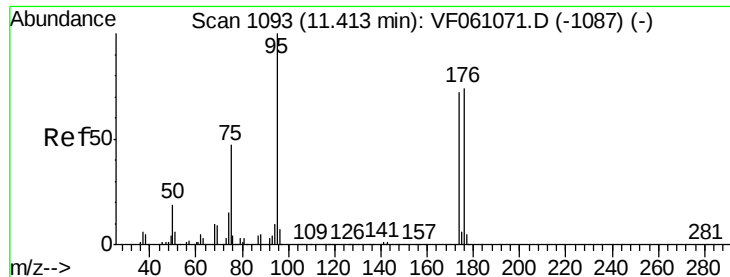


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#62

4-Bromofluorobenzene

Concen: 28.967 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061095.D

Acq: 19 Dec 2018 20:03

Instrument :

MSVOA_F

ClientSampleId :

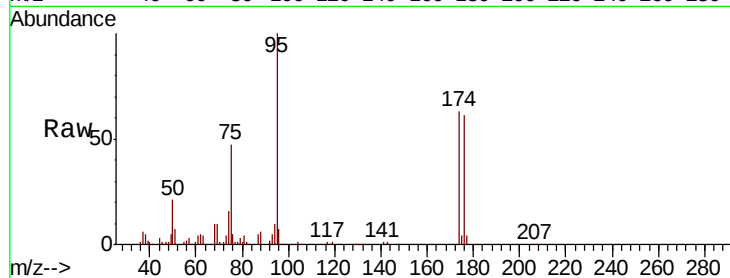
Tot Ion: 95 Resp: 106604

Ion Ratio Lower Upper

95 100

174 63.0 0.0 143.8

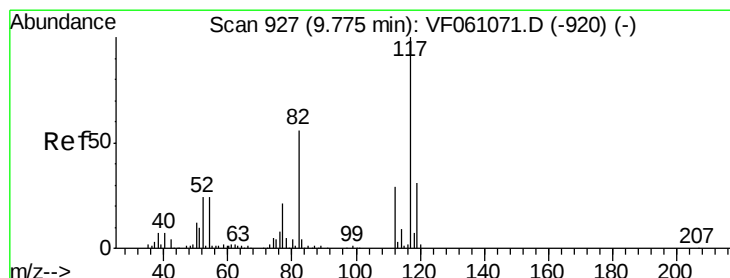
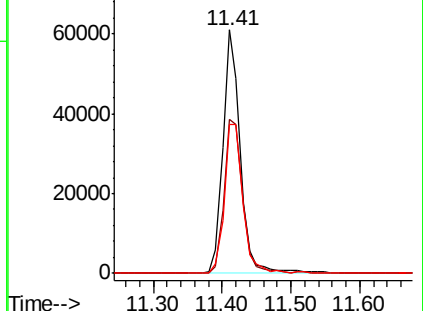
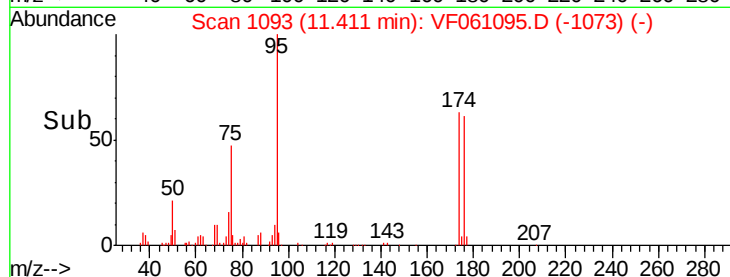
176 61.3 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF061095.D

Acq: 19 Dec 2018 20:03

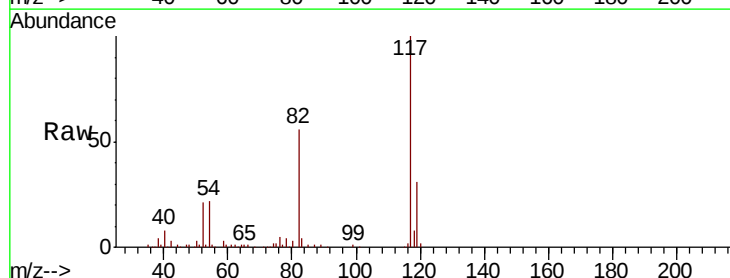
Tgt Ion: 117 Resp: 281033

Ion Ratio Lower Upper

117 100

82 56.0 45.0 67.4

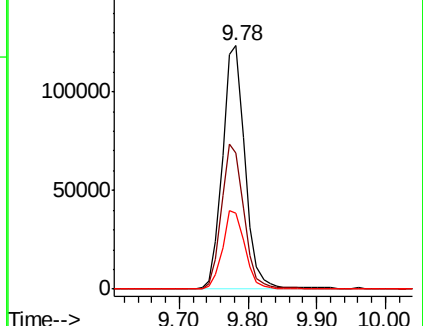
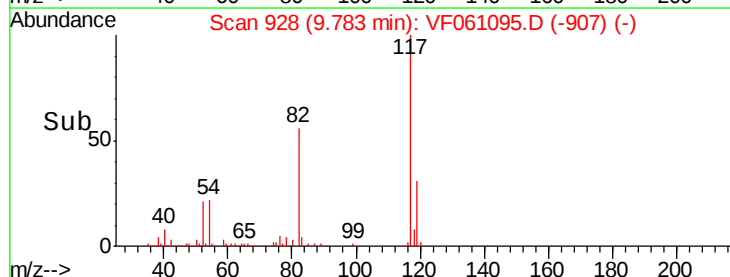
119 31.0 24.8 37.2

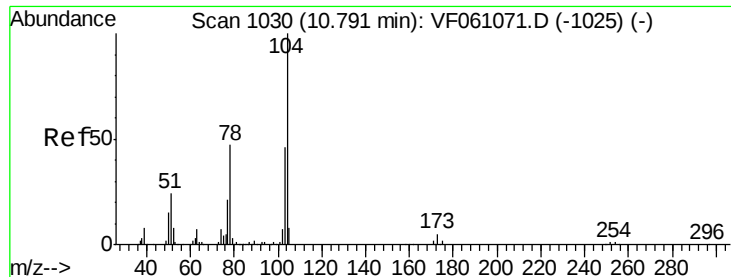


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#70

Stvrene

Concen: Below Cal

RT: 10.79 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VF061095.D

Acq: 19 Dec 2018 20:03

Instrument :

MSVOA_F

ClientSampleId :

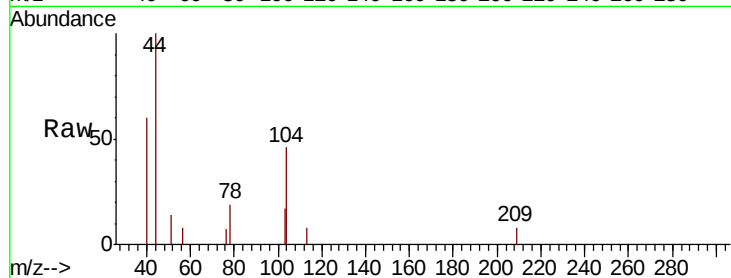
Tot Ion:104 Resp: 872

Ion Ratio Lower Upper

104 100

78 42.1 38.4 57.6

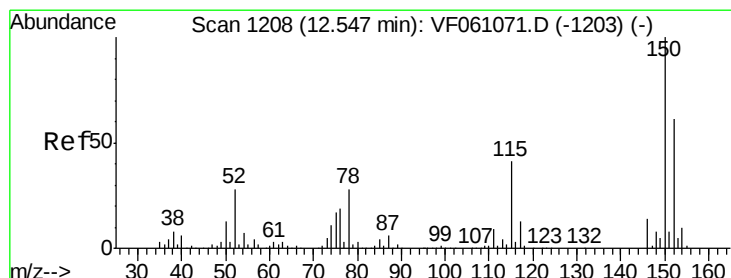
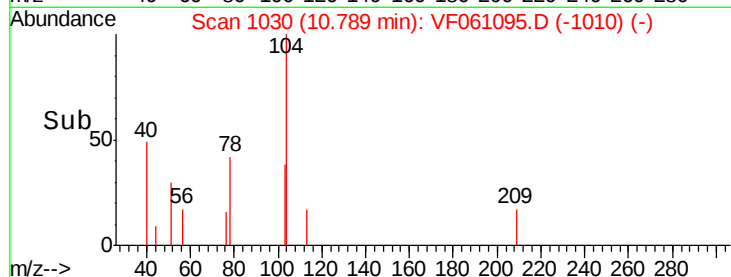
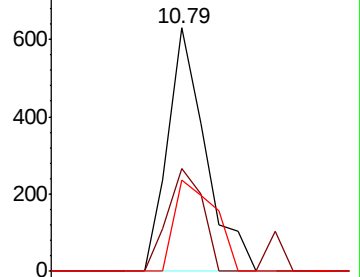
103 37.6 37.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061095.D

Acq: 19 Dec 2018 20:03

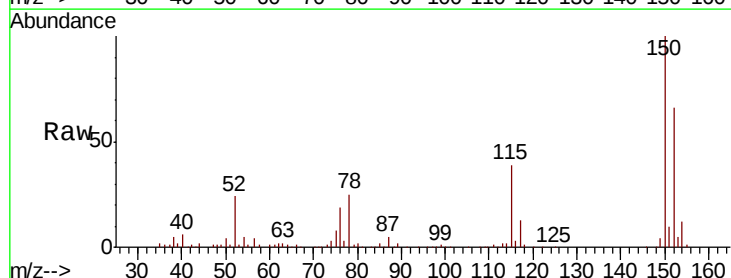
Tgt Ion:152 Resp: 100784

Ion Ratio Lower Upper

152 100

115 58.5 33.3 99.9

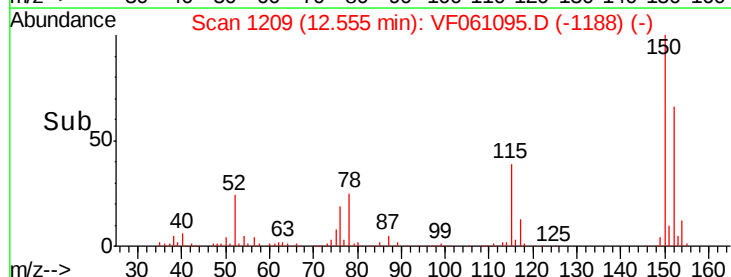
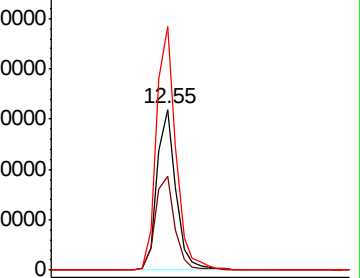
150 151.5 0.0 328.2

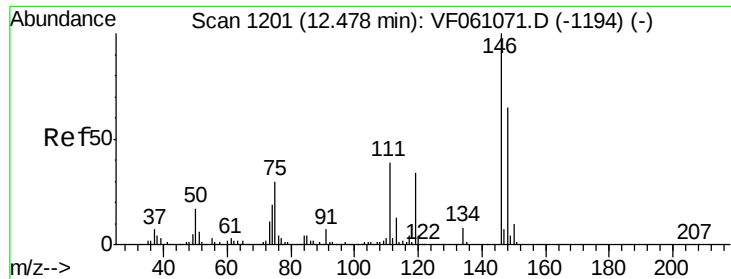


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

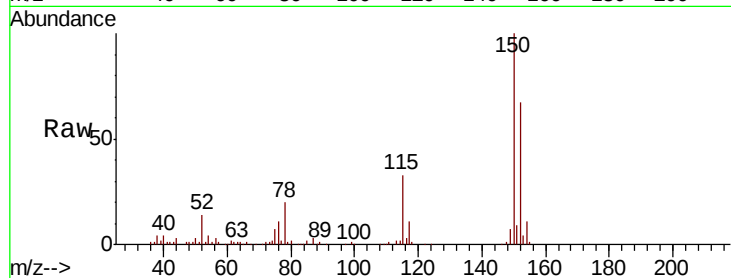




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.56 min Scan# 1210
 Delta R.T. 0.09 min
 Lab File: VF061095.D
 Acq: 19 Dec 2018 20:03

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	123.3	19.3	57.9#
148	147.4	32.4	97.2#



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

