

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121818\
 Data File : VF061063.D
 Acq On : 18 Dec 2018 15:26
 Operator : VA/AP
 Sample : J6379-04RE
 Misc : 5.21g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS003-1218-01RE

Quant Time: Dec 19 00:51:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

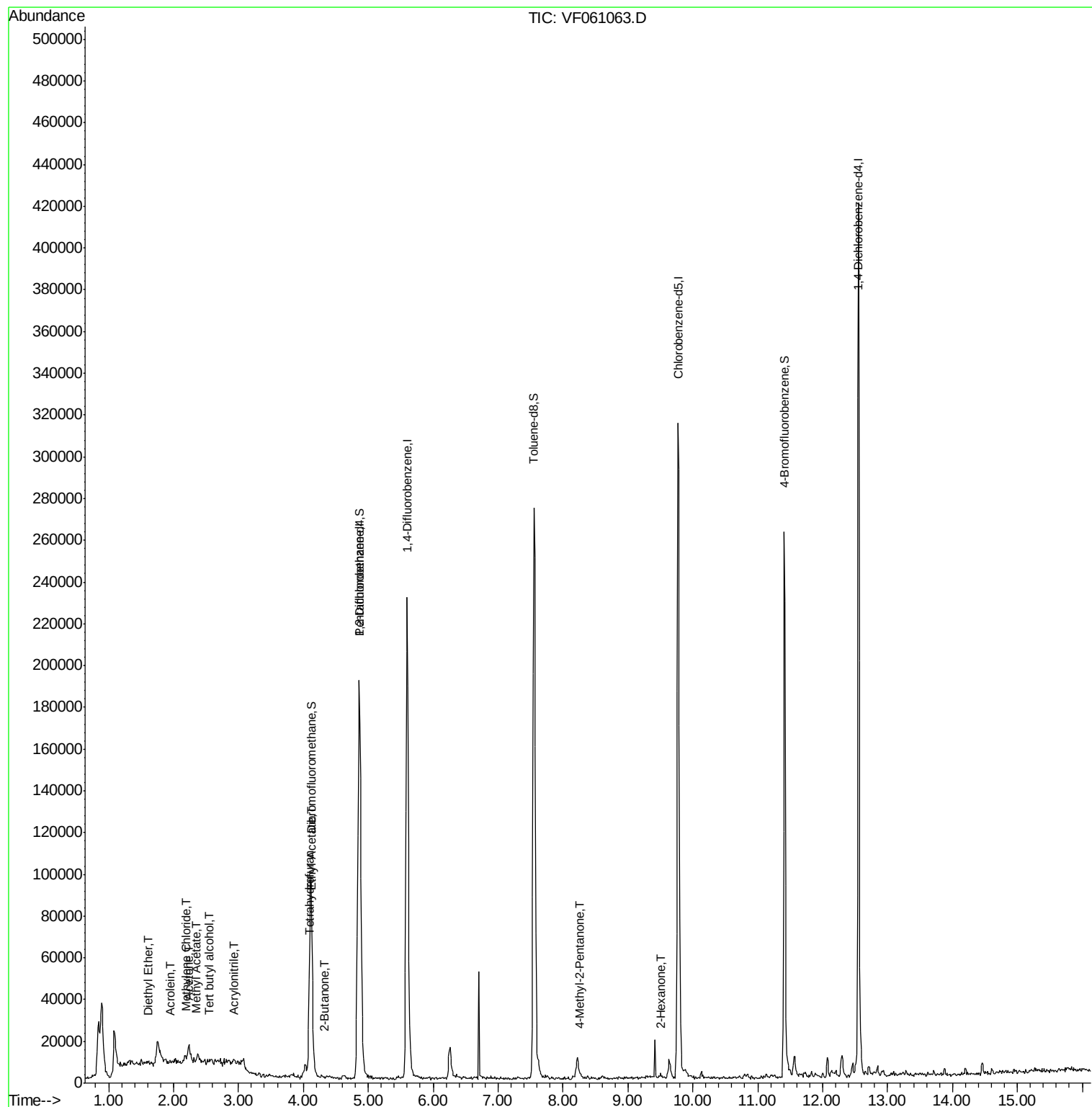
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	136267	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	255002	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	219376	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	103113	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	79804	49.71	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	99.42%	
35) Dibromofluoromethane	4.12	113	89935	44.46	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	88.92%	
50) Toluene-d8	7.55	98	231109	38.78	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	77.56%	
62) 4-Bromofluorobenzene	11.41	95	103268	38.13	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	76.26%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.62	74	405	1.061	ug/l	76
11) Tert butyl alcohol	2.55	59	94	1.428	ug/l #	62
13) Acrolein	1.94	56	639	10.249	ug/l	97
15) Acrylonitrile	2.93	53	853	5.782	ug/l #	21
16) Acetone	2.24	43	6383	21.563	ug/l	99
18) Methyl Acetate	2.34	43	3961	6.541	ug/l #	92
20) Methylene Chloride	2.19	84	1429	1.316	ug/l	91
25) 2-Butanone	4.34	43	1172	2.289	ug/l #	57
29) Tetrahydrofuran	4.08	42	971	4.474	ug/l #	63
37) Ethyl Acetate	4.14	43	1792	1.559	ug/l #	14
41) Methacrylonitrile	4.74	41	493	Below Cal	#	23
43) Isopropyl Acetate	6.93	43	209	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.27	43	2270	2.142	ug/l	99
59) 2-Hexanone	9.51	43	1138	1.530	ug/l	65
95) Naphthalene	14.46	128	3000	Below Cal	#	94

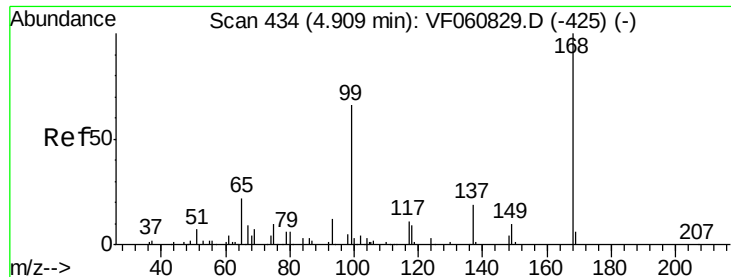
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 19 00:51:31 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF061063.D

Acq: 18 Dec 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

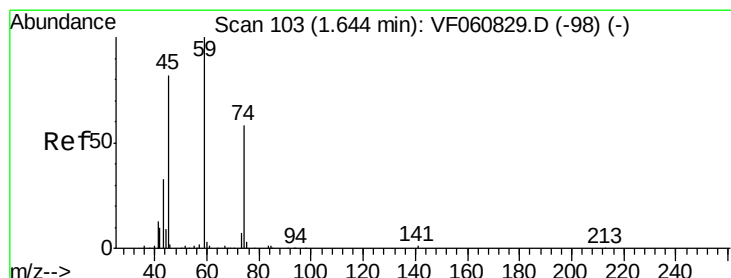
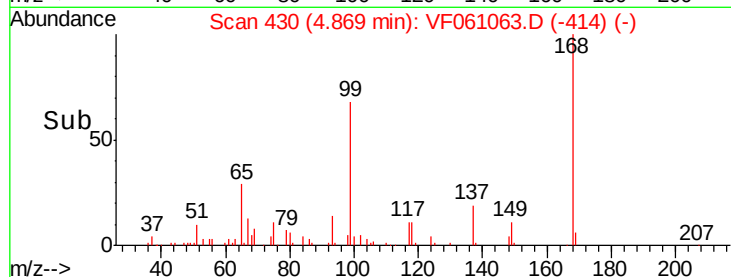
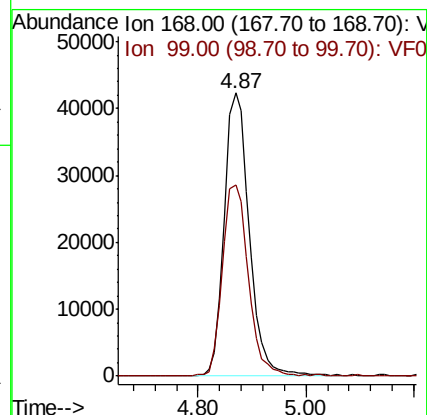
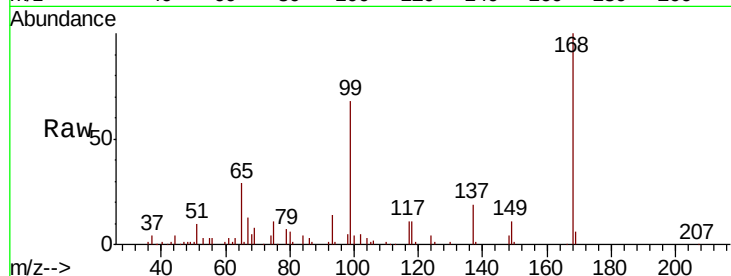
P001-SS003-1218-01RE

Tot Ion:168 Resp: 136267

Ion Ratio Lower Upper

168 100

99 67.6 52.6 79.0



#8

Diethyl Ether

Concen: 1.061 ug/l

RT: 1.62 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF061063.D

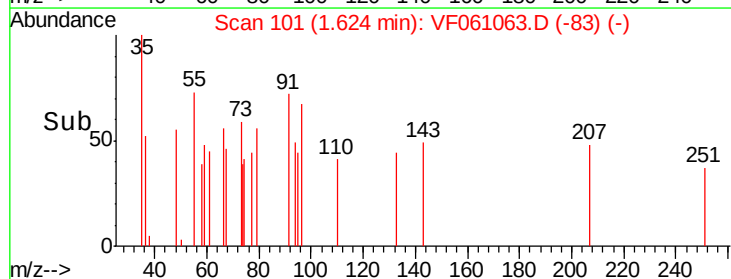
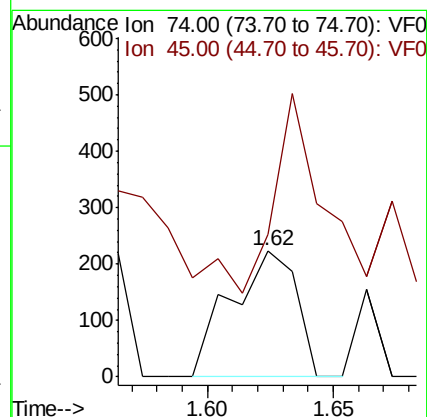
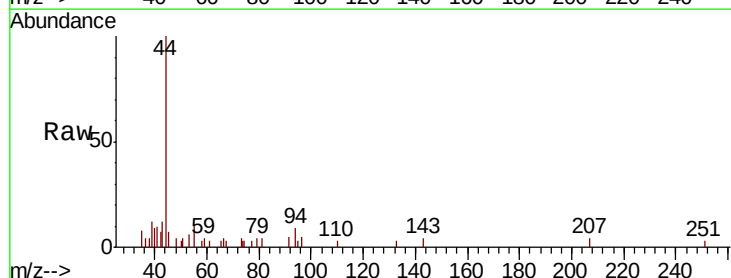
Acq: 18 Dec 2018 15:26

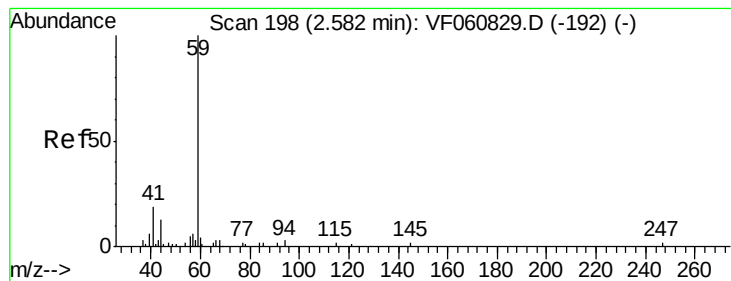
Tgt Ion: 74 Resp: 405

Ion Ratio Lower Upper

74 100

45 112.9 71.0 212.8





#11

Tert butyl alcohol

Concen: 1.428 ug/l

RT: 2.55 min Scan# 195

Delta R.T. -0.03 min

Lab File: VF061063.D

Acq: 18 Dec 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

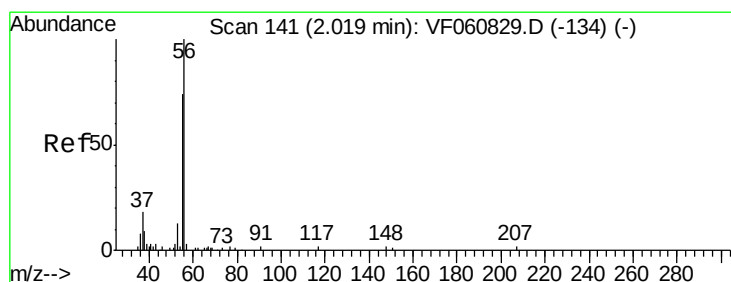
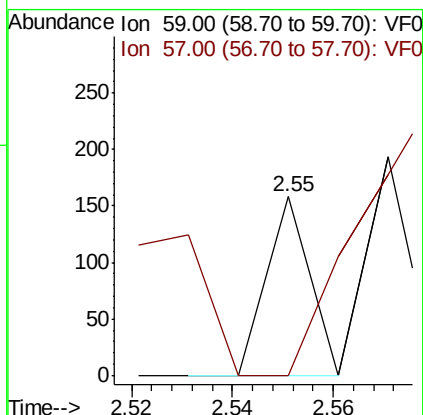
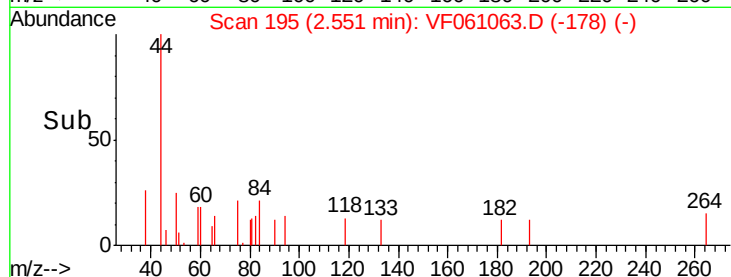
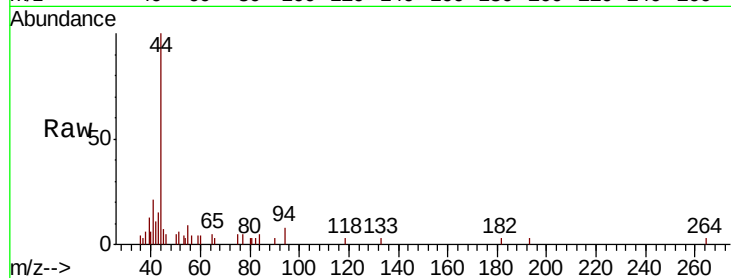
P001-SS003-1218-01RE

Tot Ion: 59 Resp: 94

Ion Ratio Lower Upper

59 100

57 0.0 12.7 19.1#



#13

Acrolein

Concen: 10.249 ug/l

RT: 1.94 min Scan# 133

Delta R.T. -0.08 min

Lab File: VF061063.D

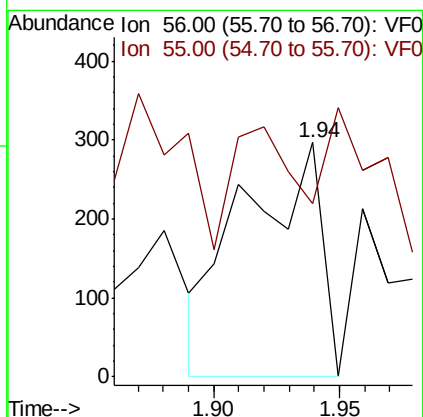
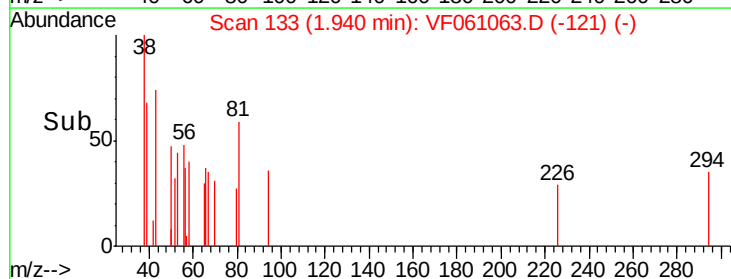
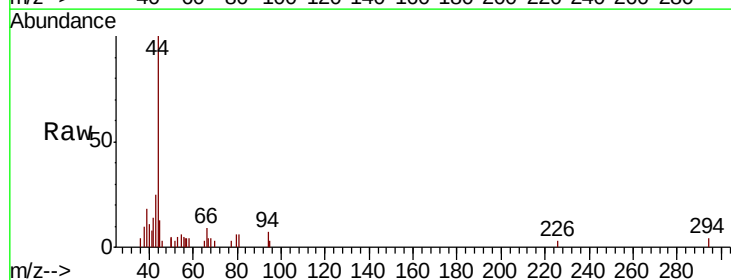
Acq: 18 Dec 2018 15:26

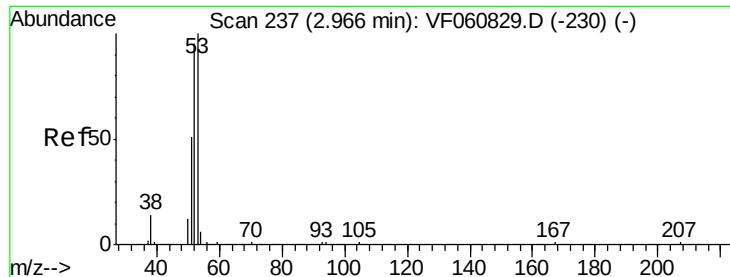
Tgt Ion: 56 Resp: 639

Ion Ratio Lower Upper

56 100

55 74.1 61.2 91.8





#15

Acrylonitrile

Concen: 5.782 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF061063.D

Acq: 18 Dec 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

P001-SS003-1218-01RE

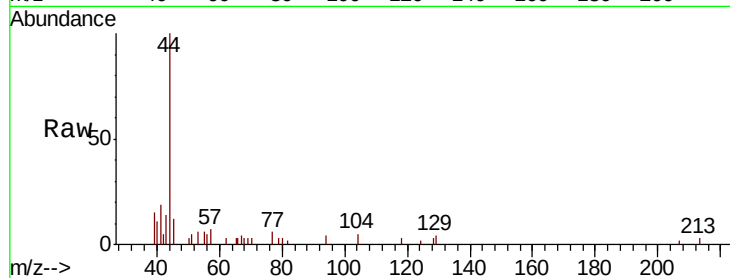
Tot Ion: 53 Resp: 853

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

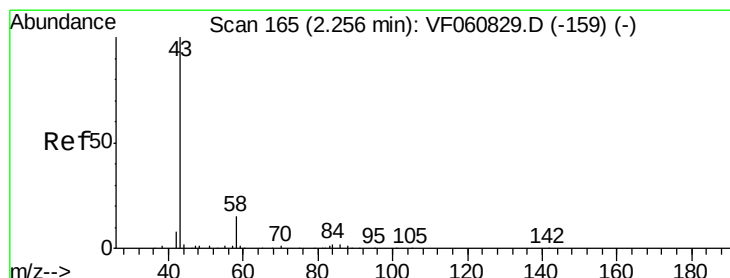
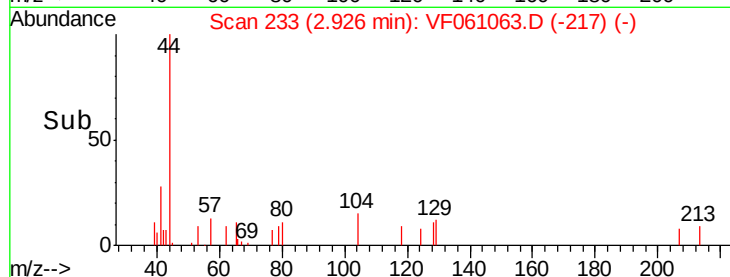
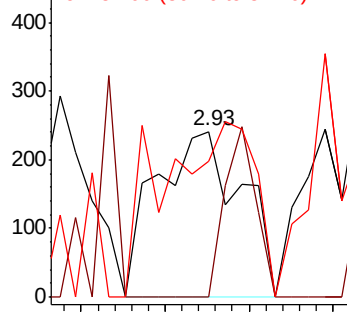
51 81.7 40.7 61.1#



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: 21.563 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF061063.D

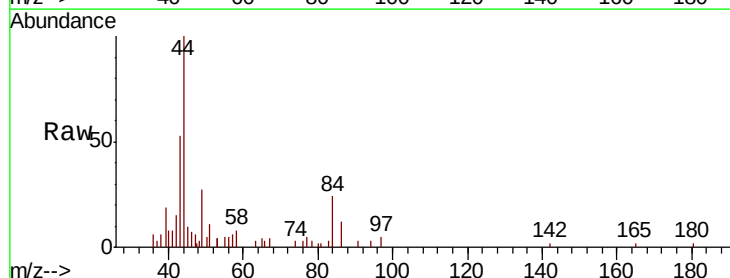
Acq: 18 Dec 2018 15:26

Tgt Ion: 43 Resp: 6383

Ion Ratio Lower Upper

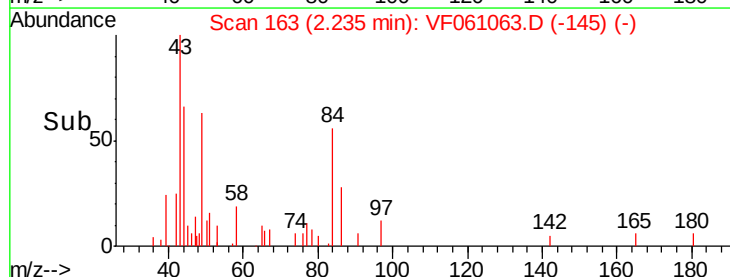
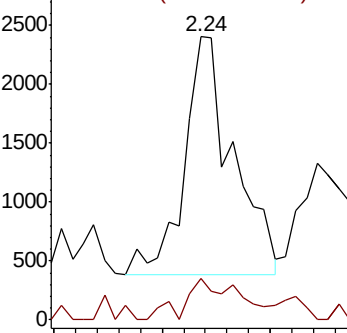
43 100

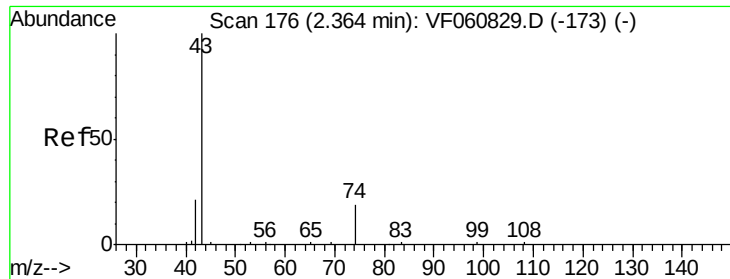
58 14.9 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

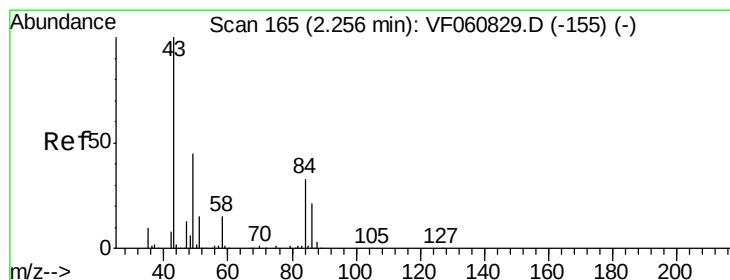
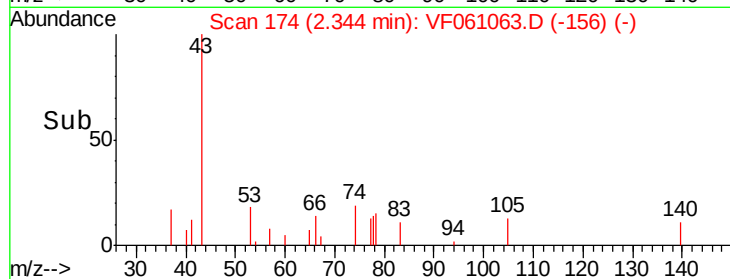
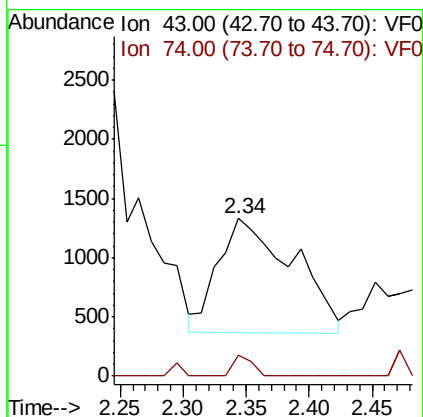
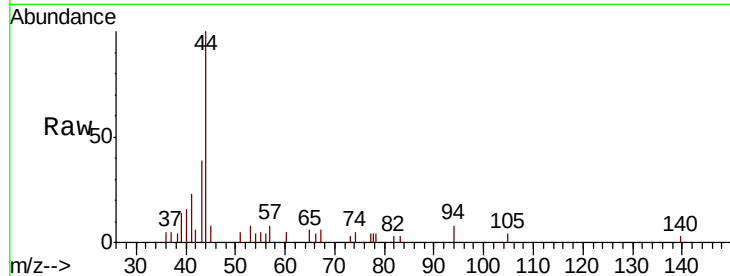




#18
Methyl Acetate
Concen: 6.541 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.02 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

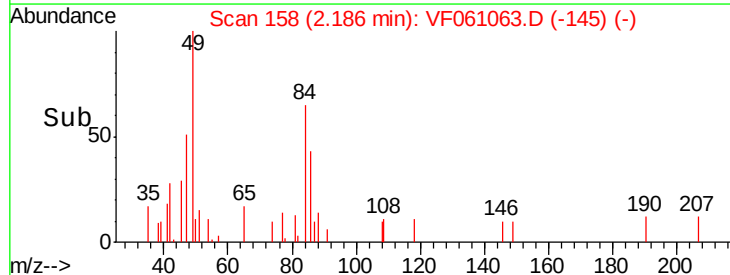
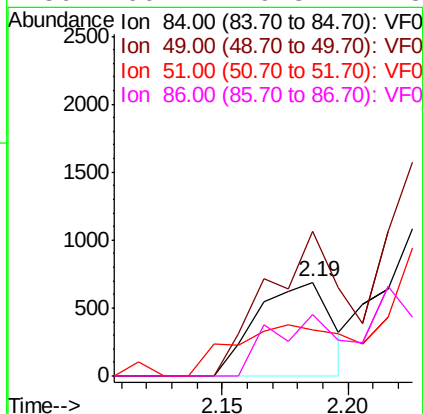
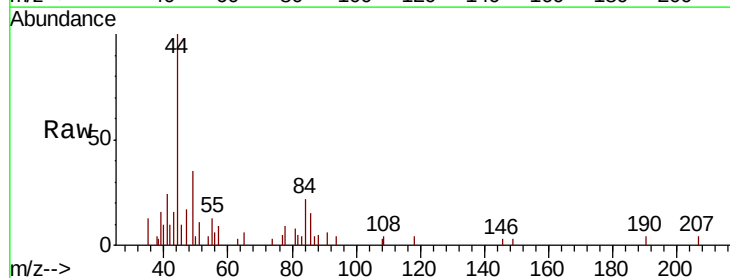
Instrument :
MSVOA_F
ClientSampleId :
P001-SS003-1218-01RE

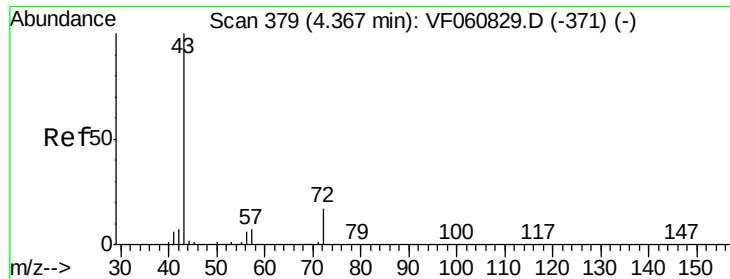
Tot Ion: 43 Resp: 3961
Ion Ratio Lower Upper
43 100
74 13.2 13.3 19.9#



#20
Methylene Chloride
Concen: 1.316 ug/l
RT: 2.19 min Scan# 158
Delta R.T. -0.07 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

Tgt Ion: 84 Resp: 1429
Ion Ratio Lower Upper
84 100
49 154.9 111.3 166.9
51 49.7 38.0 57.0
86 66.2 49.8 74.8





#25

2-Butanone

Concen: 2.289 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF061063.D

Acq: 18 Dec 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

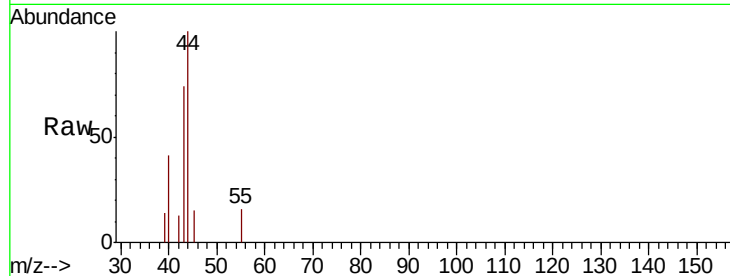
P001-SS003-1218-01RE

Tot Ion: 43 Resp: 1172

Ion Ratio Lower Upper

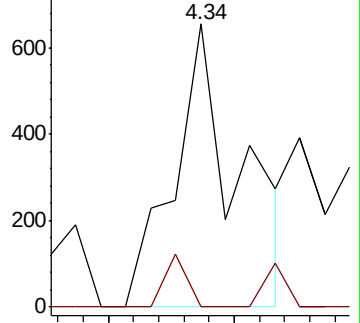
43 100

72 0.0 15.4 23.2#

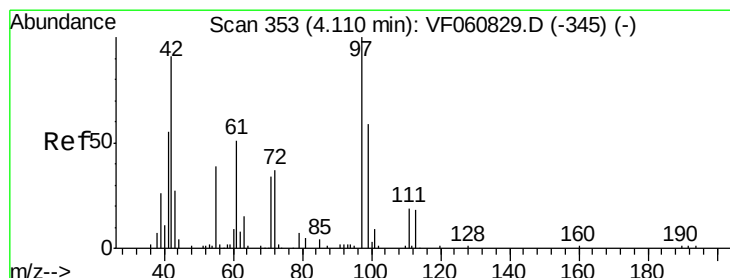
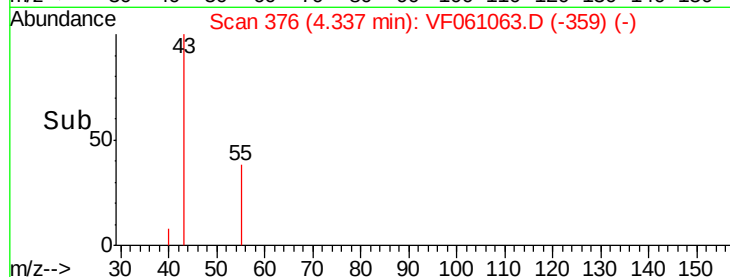


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->



#29

Tetrahydrofuran

Concen: 4.474 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061063.D

Acq: 18 Dec 2018 15:26

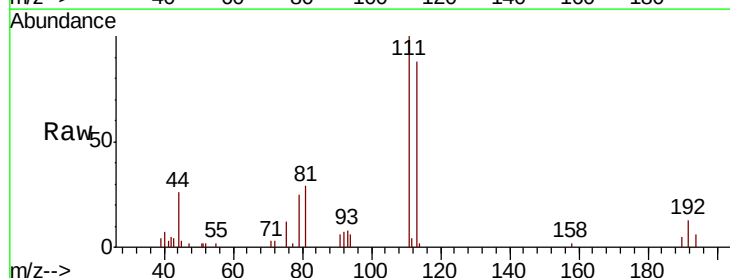
Tgt Ion: 42 Resp: 971

Ion Ratio Lower Upper

42 100

72 12.6 31.9 47.9#

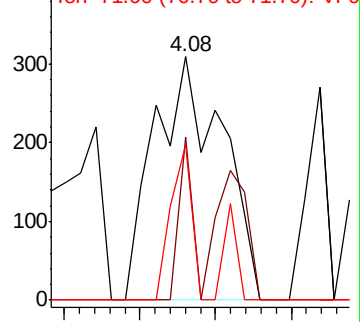
71 19.4 28.7 43.1#



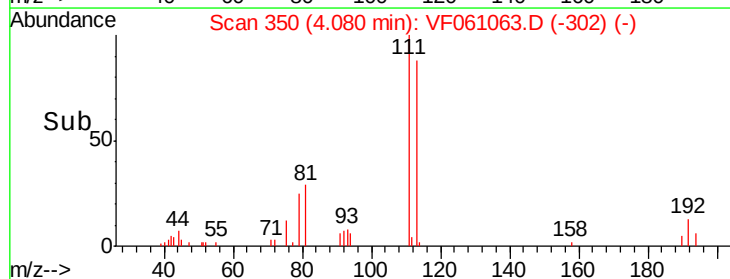
Abundance Ion 42.00 (41.70 to 42.70): VF0

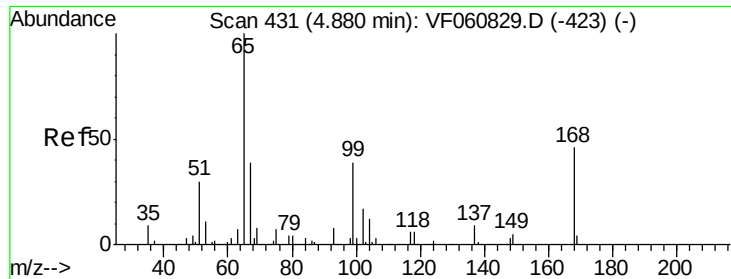
Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->

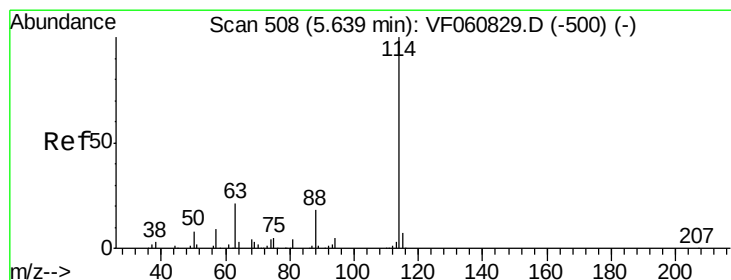
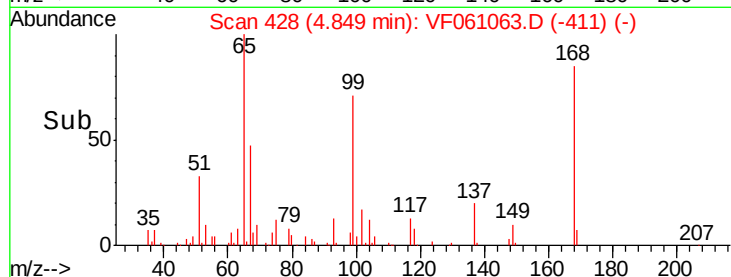
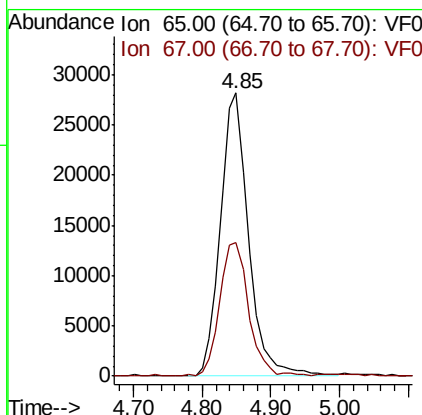
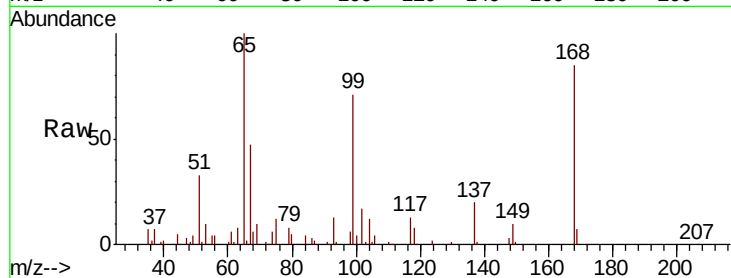




#33
 1,2-Dichloroethane-d4
 Concen: 49.714 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.03 min
 Lab File: VF061063.D
 Acq: 18 Dec 2018 15:26

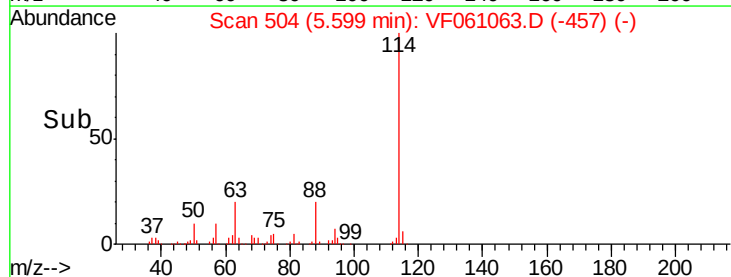
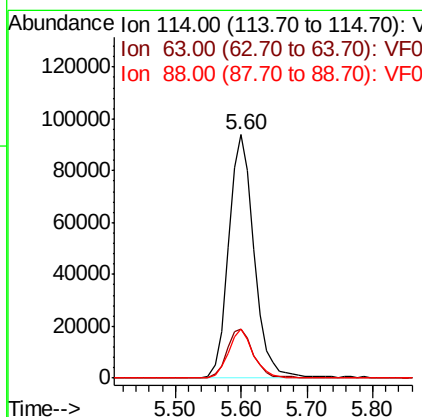
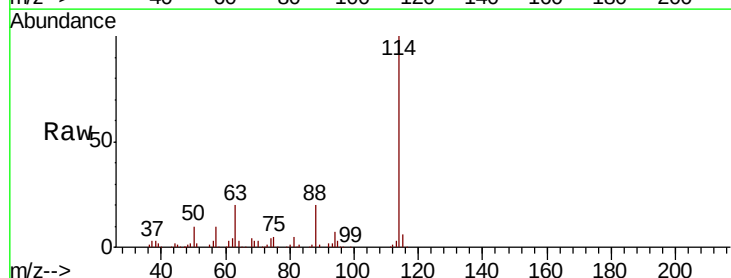
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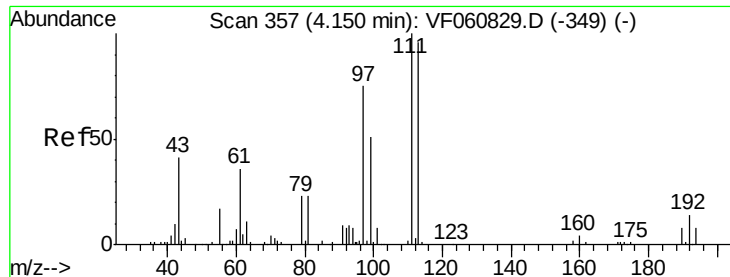
Tot Ion: 65 Resp: 79804
 Ion Ratio Lower Upper
 65 100
 67 47.2 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF061063.D
 Acq: 18 Dec 2018 15:26

Tgt Ion: 114 Resp: 255002
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.6
 88 19.9 0.0 36.6

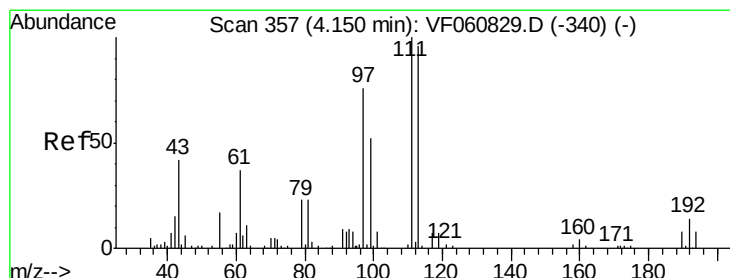
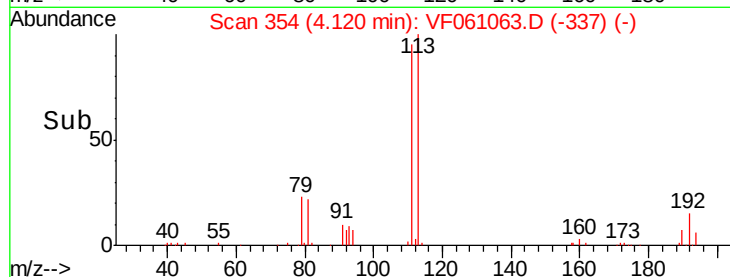
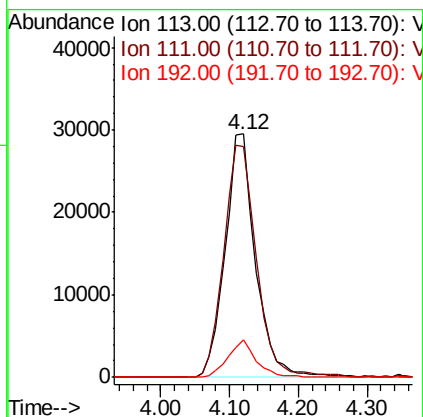
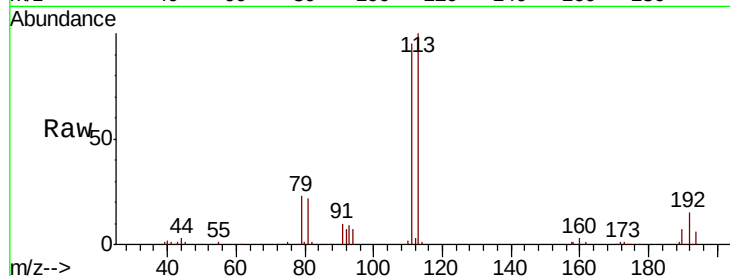




#35
Dibromofluoromethane
Concen: 44.456 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

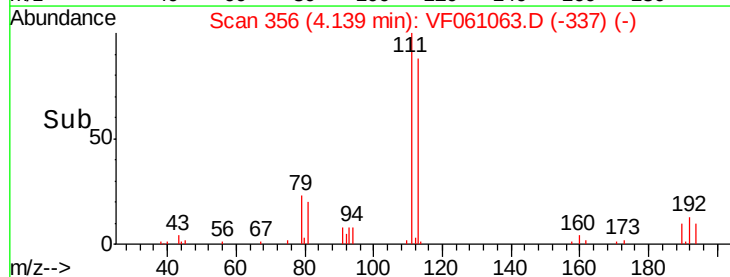
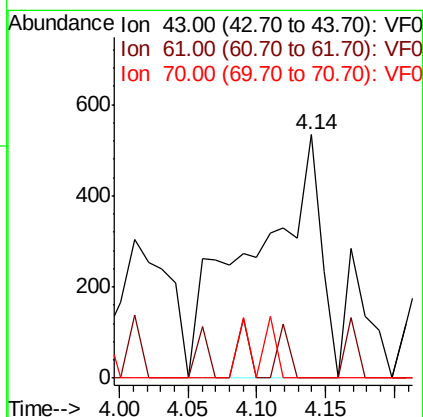
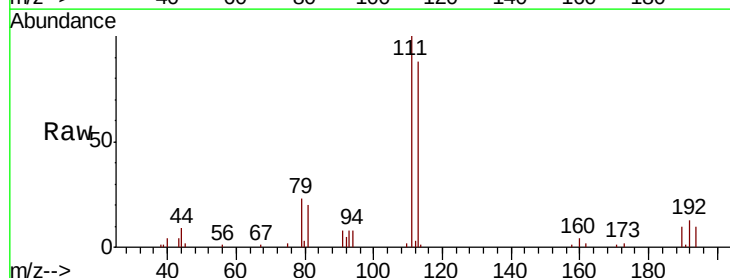
Instrument :
MSVOA_F
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P001-SS003-1218-01RE

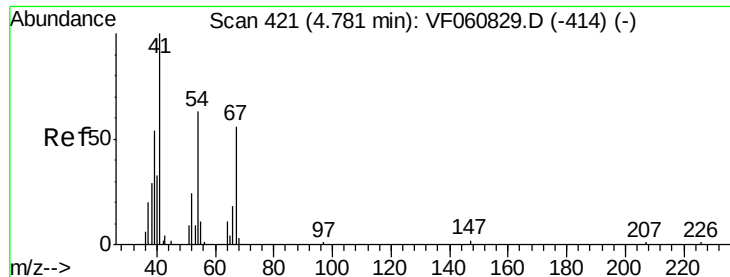
Tot Ion:113 Resp: 89935
Ion Ratio Lower Upper
113 100
111 95.0 83.0 124.6
192 15.9 12.3 18.5



#37
Ethyl Acetate
Concen: 1.559 ug/l
RT: 4.14 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

Tgt Ion: 43 Resp: 1792
Ion Ratio Lower Upper
43 100
61 0.0 68.6 103.0#
70 0.0 9.0 13.4#

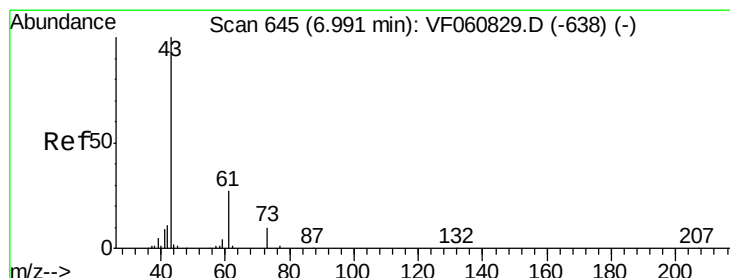
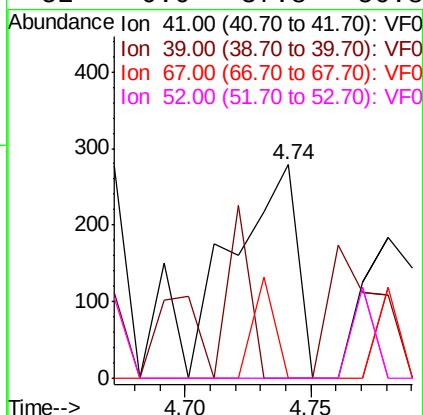
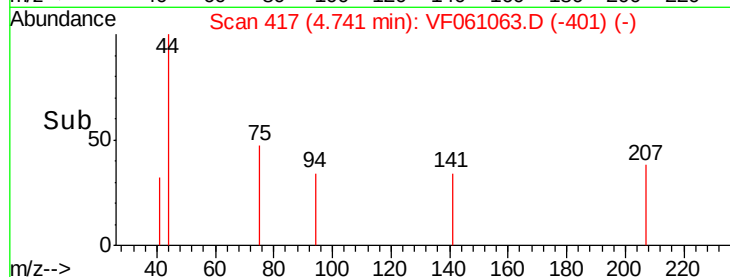
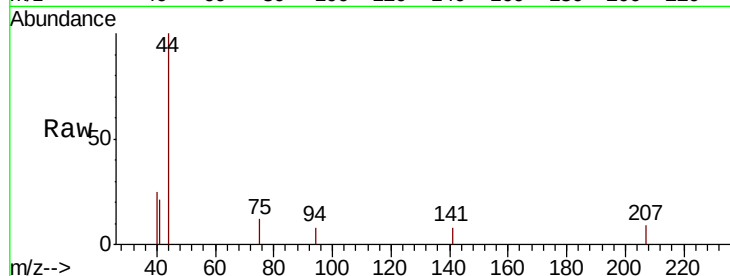




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

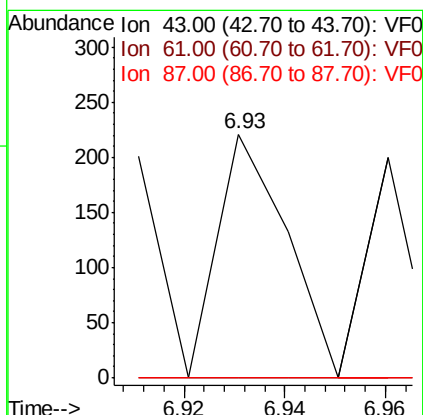
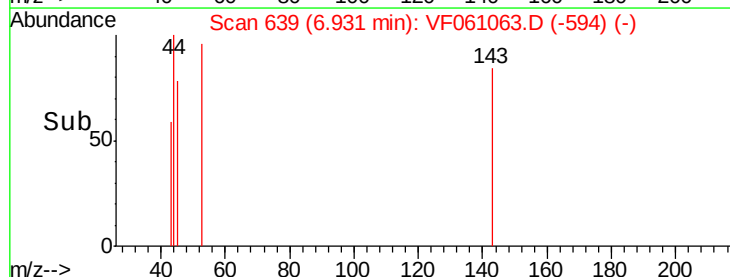
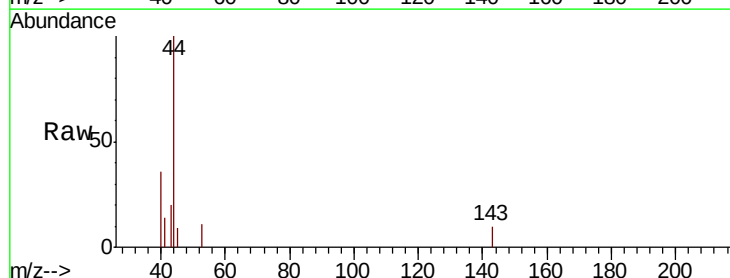
Instrument :
MSVOA_F
ClientSampleId :
P001-SS003-1218-01RE

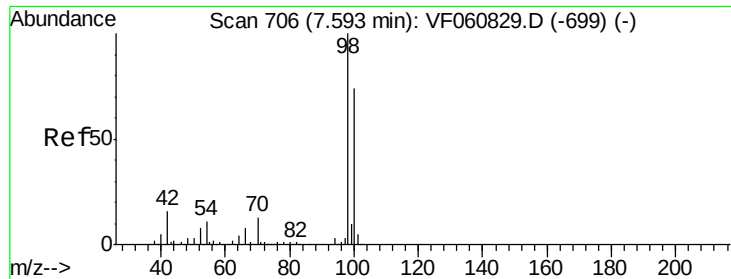
Tot Ion: 41 Resp: 493
Ion Ratio Lower Upper
41 100
39 0.0 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.93 min Scan# 639
Delta R.T. -0.06 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

Tgt Ion: 43 Resp: 209
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.0#
87 0.0 0.2 0.4#





#50

Toluene-d8

Concen: 38.782 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF061063.D

Acq: 18 Dec 2018 15:26

Instrument :

MSVOA_F

ClientSampleId :

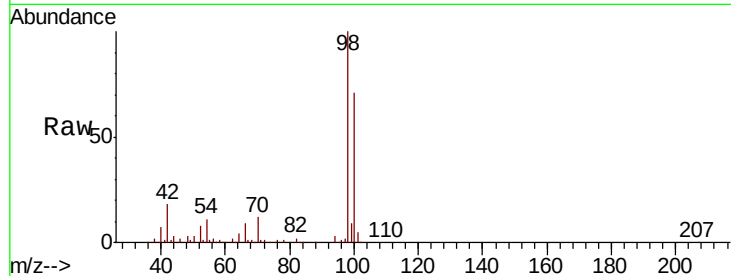
P001-SS003-1218-01RE

Tot Ion: 98 Resp: 231109

Ion Ratio Lower Upper

98 100

100 71.3 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.55

100000

80000

60000

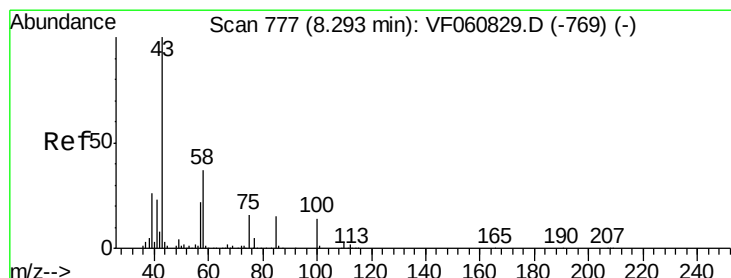
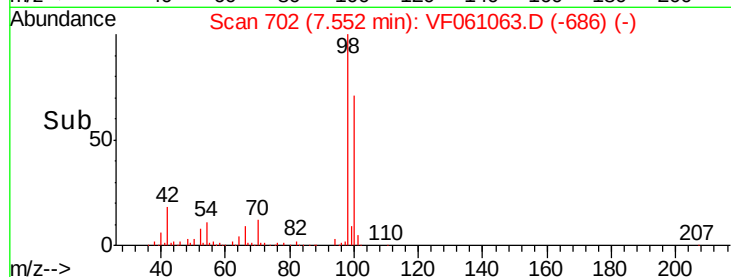
40000

20000

0

Time-->

7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 2.142 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF061063.D

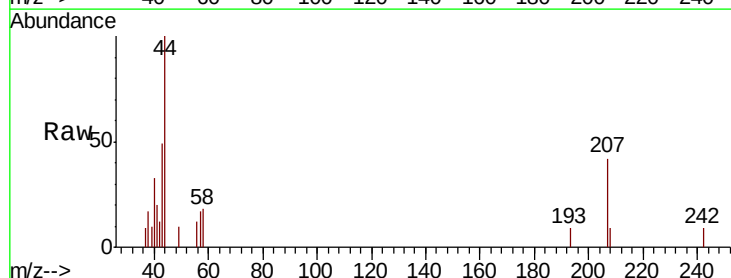
Acq: 18 Dec 2018 15:26

Tgt Ion: 43 Resp: 2270

Ion Ratio Lower Upper

43 100

58 38.0 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

600

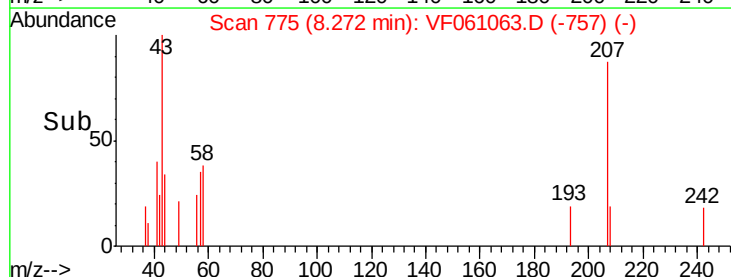
400

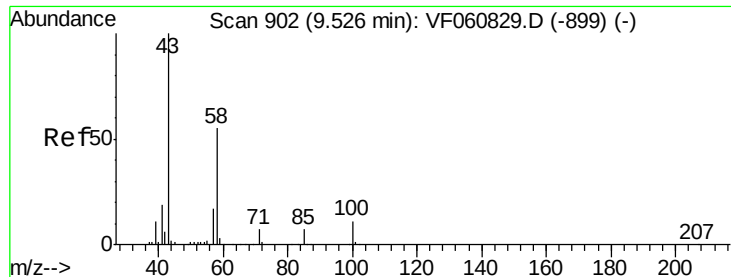
200

0

Time-->

8.20 8.25 8.30 8.35

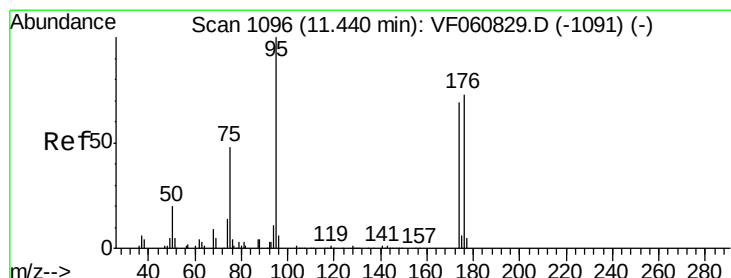
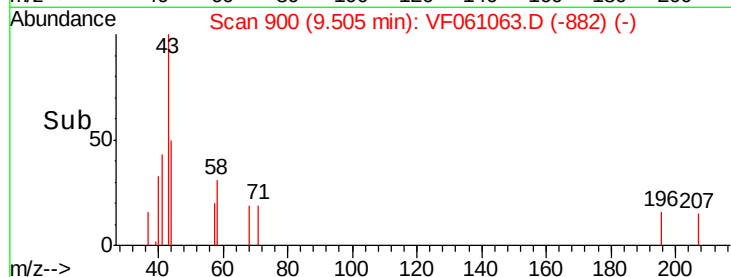
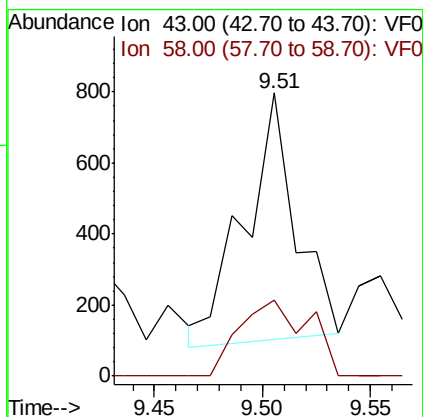
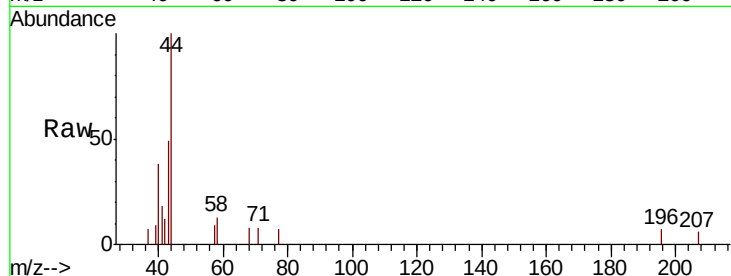




#59
2-Hexanone
Concen: 1.530 ug/l
RT: 9.51 min Scan# 900
Delta R.T. -0.02 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

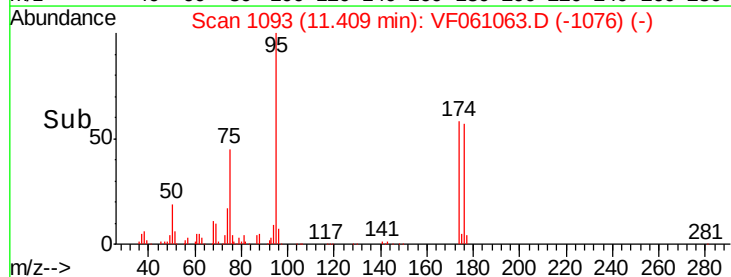
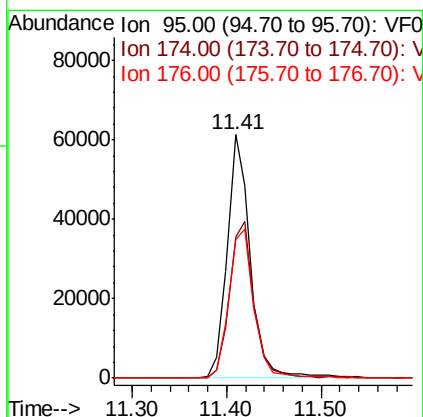
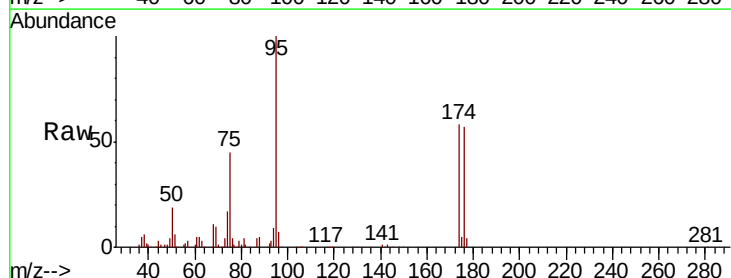
Instrument :
MSVOA_F
ClientSampleId :
P001-SS003-1218-01RE

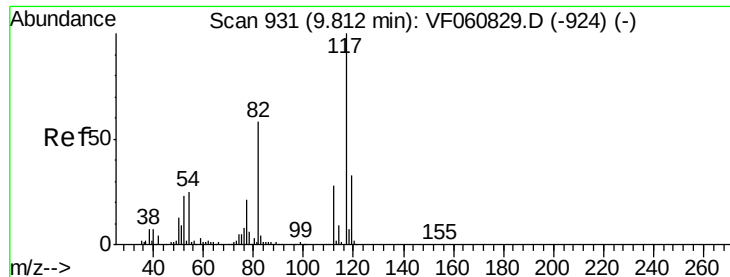
Tot Ion: 43 Resp: 1138
Ion Ratio Lower Upper
43 100
58 26.9 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 38.130 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

Tgt Ion: 95 Resp: 103268
Ion Ratio Lower Upper
95 100
174 58.0 0.0 138.2
176 56.9 0.0 146.2

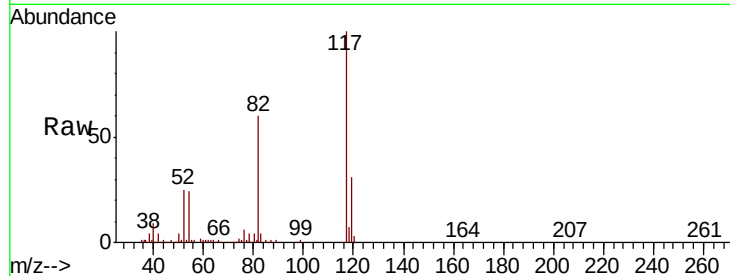




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

Instrument :
MSVOA_F
ClientSampleId :
P001-SS003-1218-01RE

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.8	46.6	69.8
119	31.4	26.4	39.6

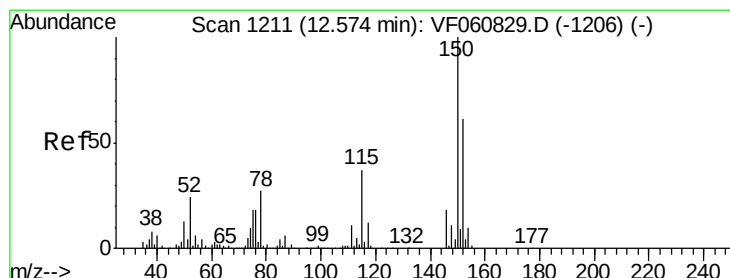
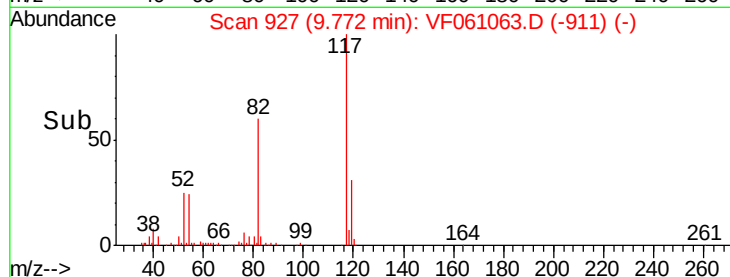
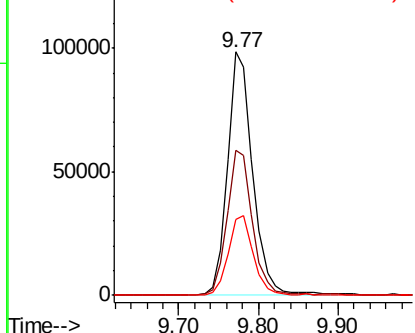


Abundance

Ion 117.00 (116.70 to 117.70): V

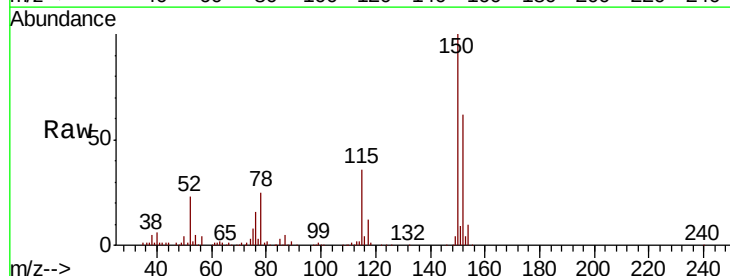
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.6	30.1	90.5
150	162.0	0.0	327.6

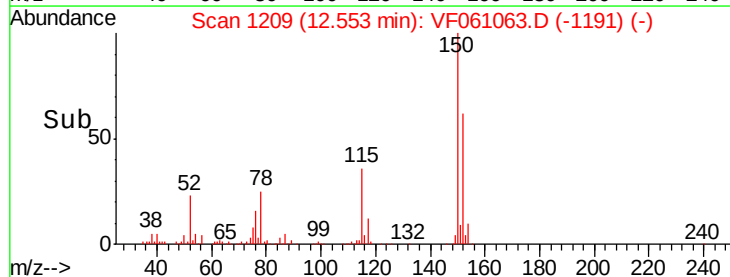
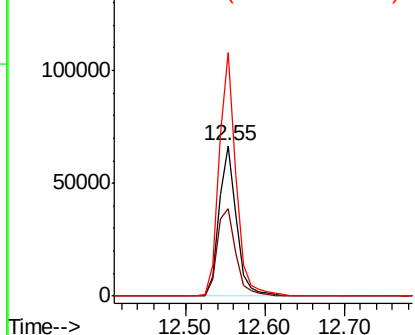


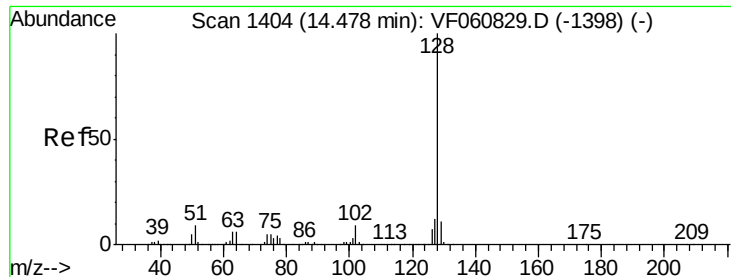
Abundance

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

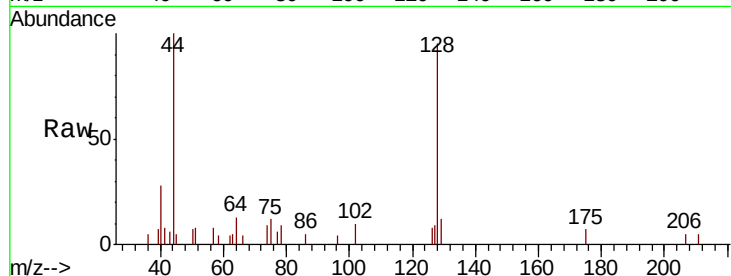




#95
Naphthalene
Concen: Below Cal
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF061063.D
Acq: 18 Dec 2018 15:26

Instrument :
MSVOA_F
ClientSampleId :
P001-SS003-1218-01RE

Tot Ion:128	Resp:	3000
Ion Ratio	Lower	Upper
128	100	
127	9.1	9.9 14.9#
129	12.4	9.1 13.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

