

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122118\
 Data File : VF061135.D
 Acq On : 21 Dec 2018 19:37
 Operator : VA/AP
 Sample : J6377-15RE
 Misc : 3.53g/5mL/MSVOA-F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0006-01RE

Quant Time: Dec 21 23:47:53 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	4.91	168	155077	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.64	114	259987	50.00	ug/l	0.05
63) Chlorobenzene-d5	9.82	117	176869	50.00	ug/l	0.05
72) 1,4-Dichlorobenzene-d4	12.58	152	54389	50.00	ug/l	0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.89	65	72789	36.49	ug/l	0.05
Spiked Amount			Recovery	=	72.98%	
35) Dibromofluoromethane	4.16	113	76276	36.62	ug/l	0.05
Spiked Amount			Recovery	=	73.24%	
50) Toluene-d8	7.59	98	166592	28.23	ug/l	0.04
Spiked Amount			Recovery	=	56.46%	
62) 4-Bromofluorobenzene	11.44	95	57340	21.07	ug/l	0.03
Spiked Amount			Recovery	=	42.14%	

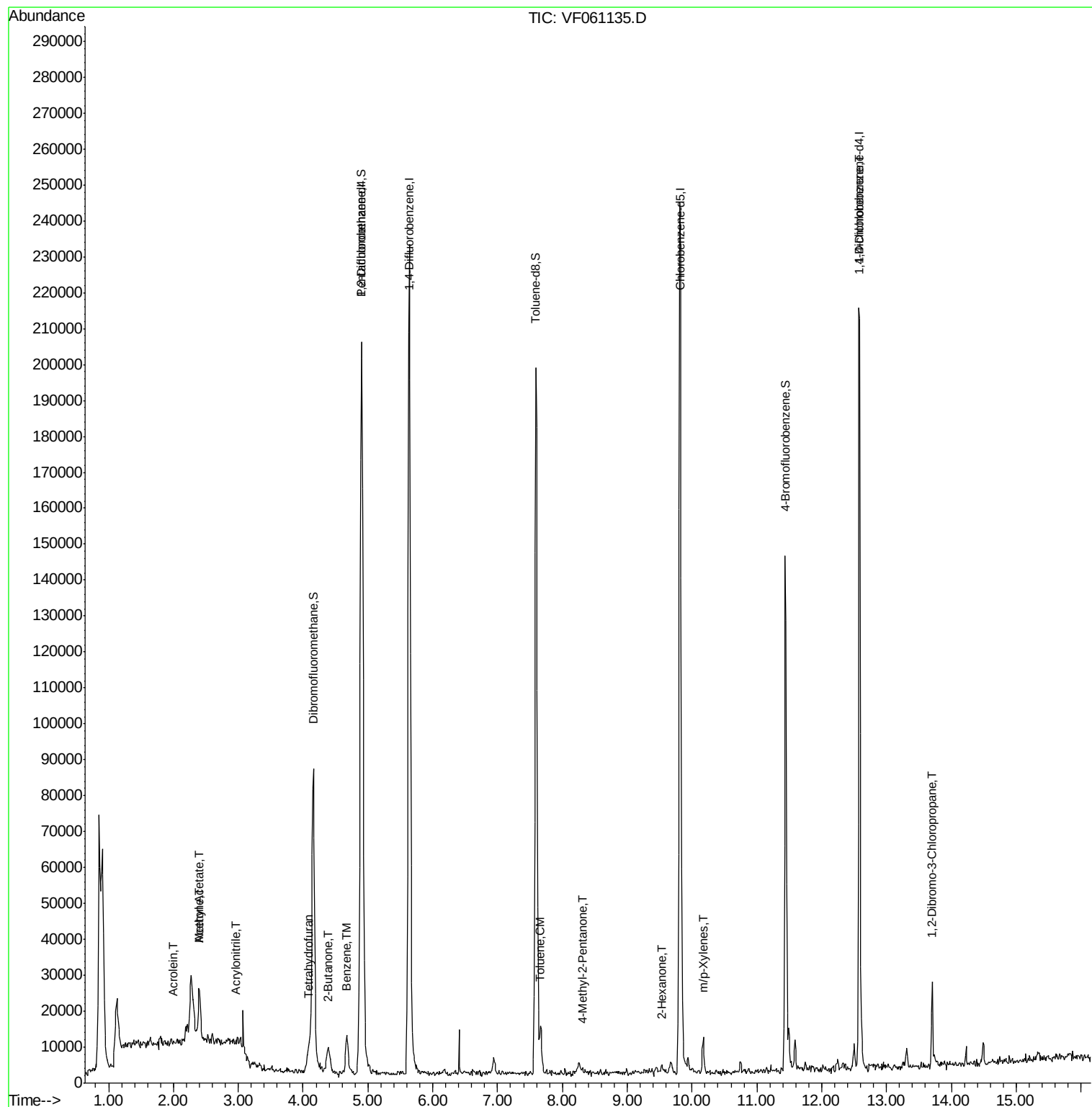
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	1.99	56	629	10.815	ug/l	87
15) Acrylonitrile	2.96	53	668	3.589	ug/l #	33
16) Acetone	2.40	43	4195	10.521	ug/l	96
18) Methyl Acetate	2.40	43	5231	6.341	ug/l #	66
25) 2-Butanone	4.39	43	18673	28.876	ug/l #	89
29) Tetrahydrofuran	4.08	42	298	1.132	ug/l #	37
37) Ethyl Acetate	4.14	43	111	Below Cal	#	21
40) Benzene	4.67	78	12301	1.823	ug/l	97
51) 4-Methyl-2-Pentanone	8.30	43	1642	1.580	ug/l	90
52) Toluene	7.66	92	5682	1.272	ug/l	89
59) 2-Hexanone	9.53	43	2504	3.332	ug/l #	62
68) m/p-Xylenes	10.18	106	3338	1.425	ug/l	99
70) Styrene	10.84	104	64	Below Cal	#	30
78) n-propylbenzene	11.63	91	463	Below Cal	#	55
87) 1,3-Dichlorobenzene	12.50	146	2523	Below Cal		97
88) 1,4-Dichlorobenzene	12.59	146	5880	3.174	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.70	75	299	2.095	ug/l #	2

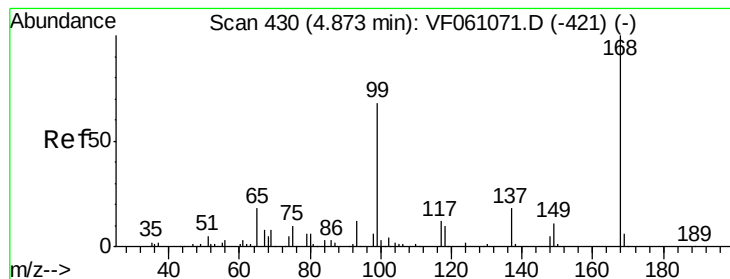
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.04 min

Lab File: VF061135.D

Acq: 21 Dec 2018 19:37

Instrument :

MSVOA_F

ClientSampleId :

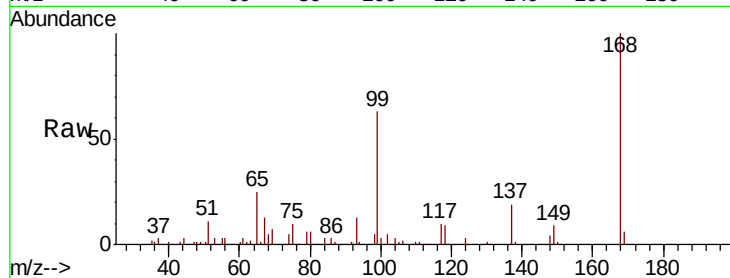
P001-SD006-0006-01RE

Tot Ion:168 Resp: 155077

Ion Ratio Lower Upper

168 100

99 63.5 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.91

60000

50000

40000

30000

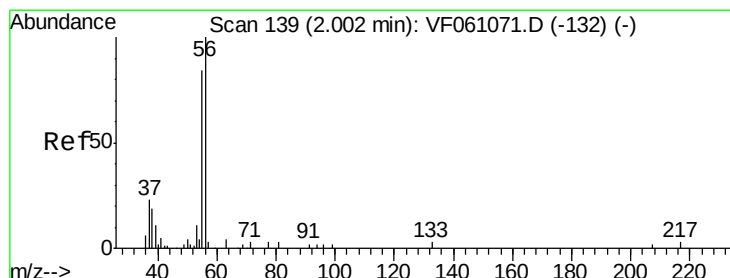
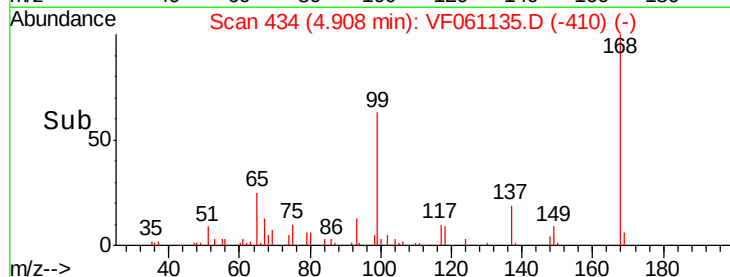
20000

10000

0

Time-->

4.80 4.90 5.00 5.10



#13

Acrolein

Concen: 10.815 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.01 min

Lab File: VF061135.D

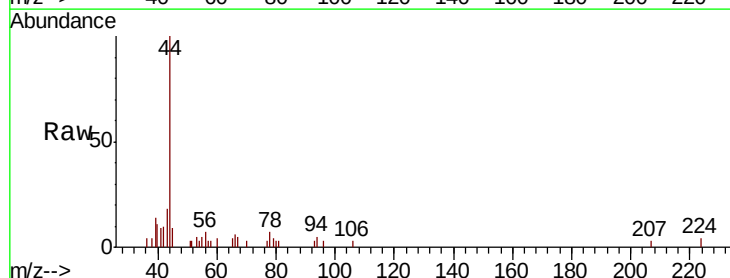
Acq: 21 Dec 2018 19:37

Tgt Ion: 56 Resp: 629

Ion Ratio Lower Upper

56 100

55 75.7 70.2 105.2



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

1.99

400

300

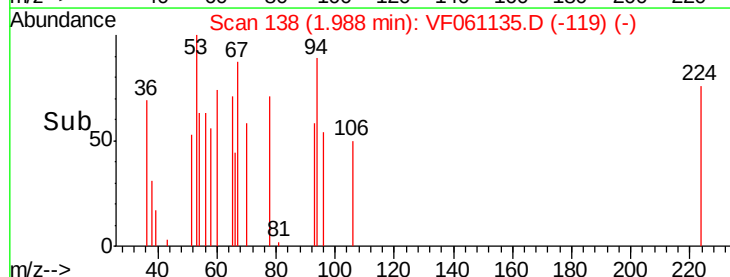
200

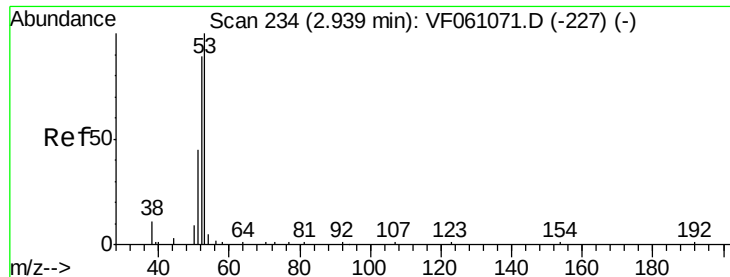
100

0

Time-->

1.96 1.98 2.00 2.02





#15

Acrylonitrile

Concen: 3.589 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.02 min

Lab File: VF061135.D

Acq: 21 Dec 2018 19:37

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-01RE

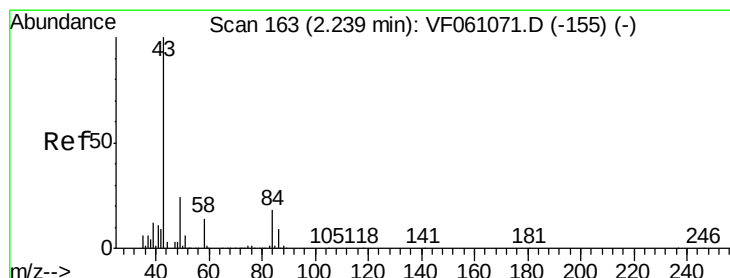
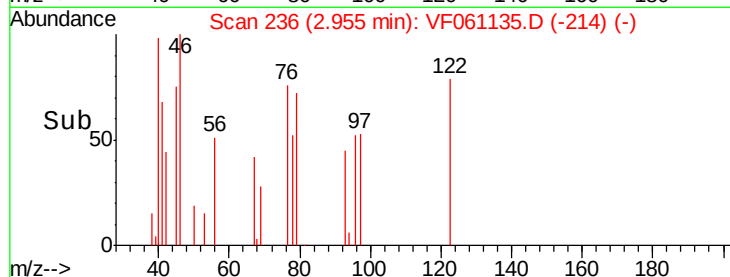
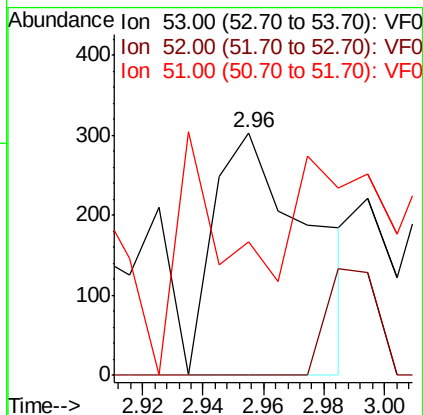
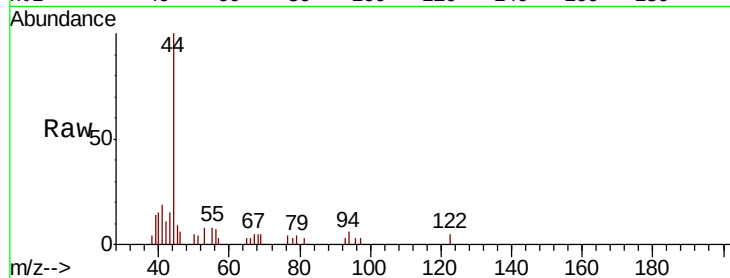
Tot Ion: 53 Resp: 668

Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 55.1 36.8 55.2



#16

Acetone

Concen: 10.521 ug/l

RT: 2.40 min Scan# 180

Delta R.T. 0.16 min

Lab File: VF061135.D

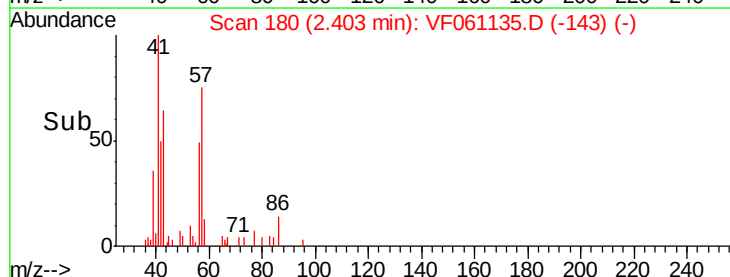
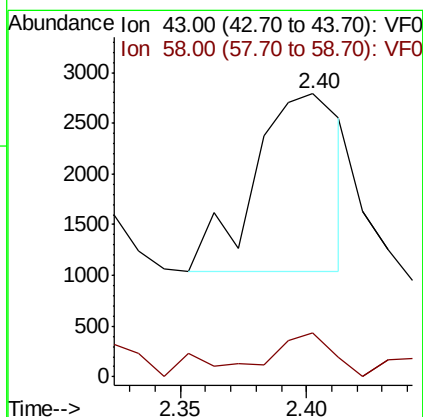
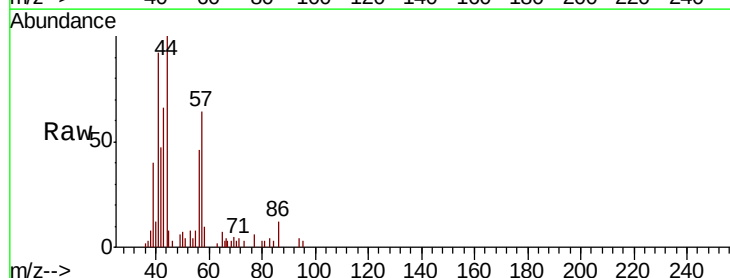
Acq: 21 Dec 2018 19:37

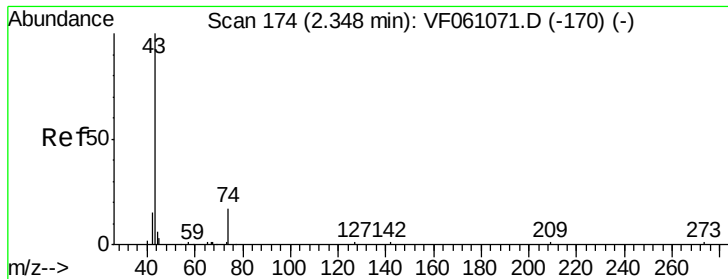
Tgt Ion: 43 Resp: 4195

Ion Ratio Lower Upper

43 100

58 15.7 11.1 16.7

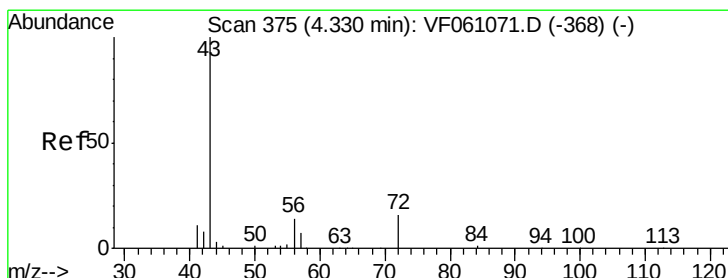
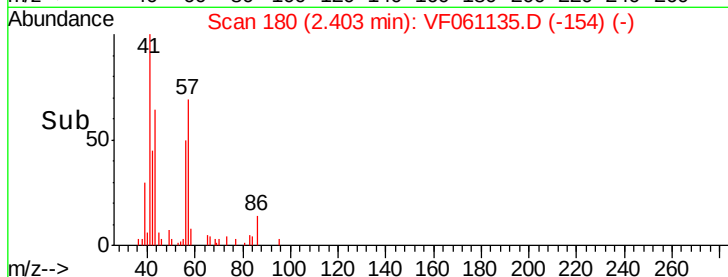
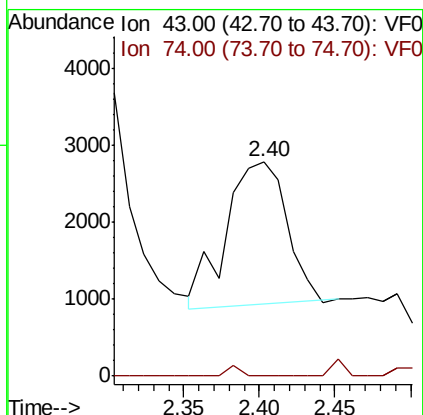
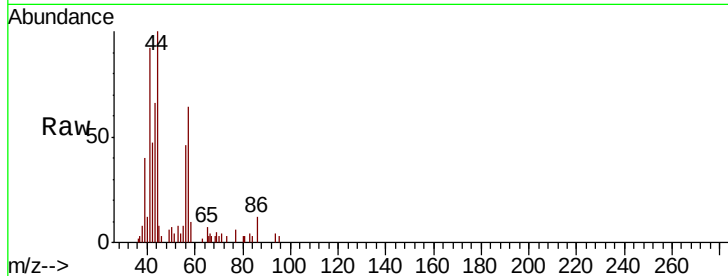




#18
Methvl Acetate
Concen: 6.341 ug/l
RT: 2.40 min Scan# 180
Delta R.T. 0.05 min
Lab File: VF061135.D
Acq: 21 Dec 2018 19:37

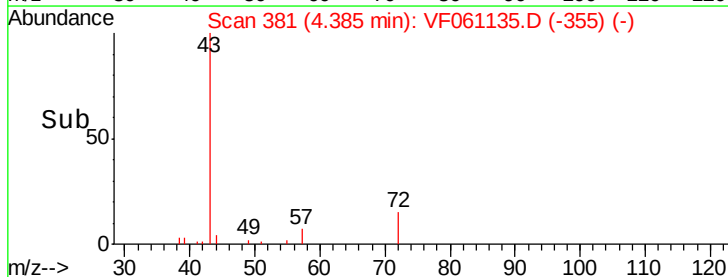
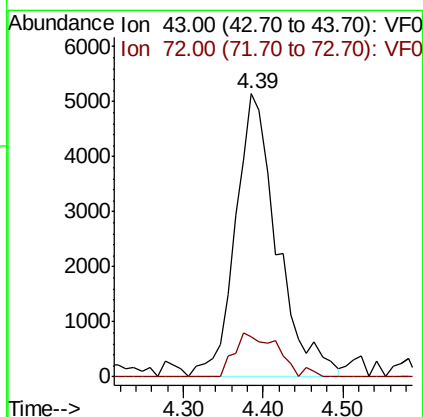
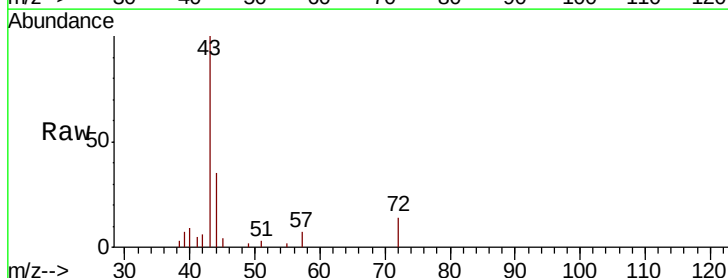
Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0006-01RE

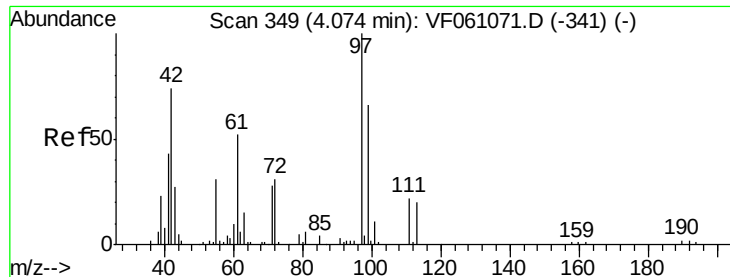
Tot Ion: 43 Resp: 5231
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#



#25
2-Butanone
Concen: 28.876 ug/l
RT: 4.39 min Scan# 381
Delta R.T. 0.05 min
Lab File: VF061135.D
Acq: 21 Dec 2018 19:37

Tgt Ion: 43 Resp: 18673
Ion Ratio Lower Upper
43 100
72 14.3 15.6 23.4#





#29

Tetrahydrofuran

Concen: 1.132 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061135.D

Acq: 21 Dec 2018 19:37

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-01RE

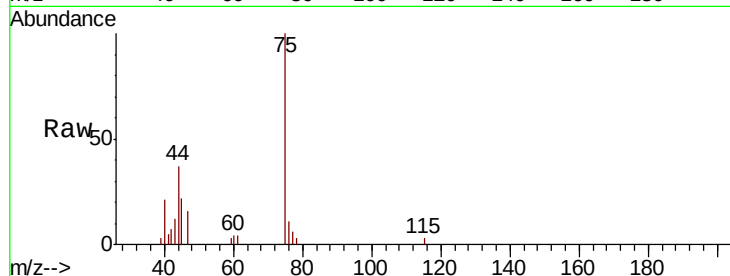
Tot Ion: 42 Resp: 298

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

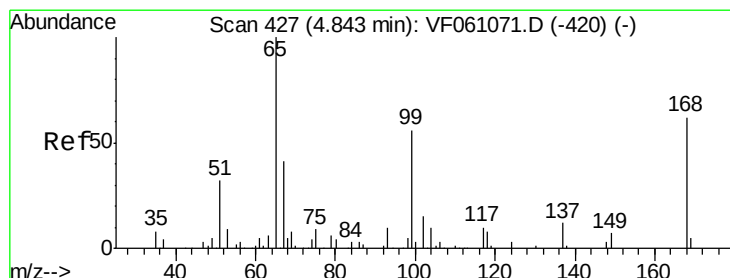
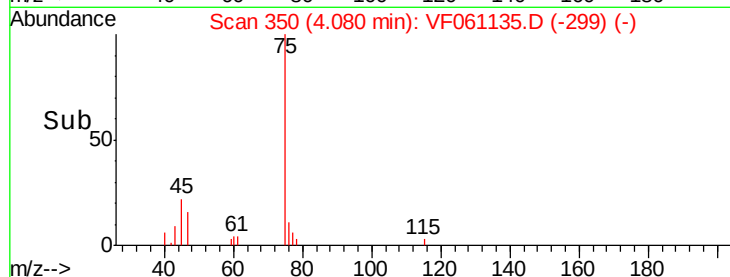
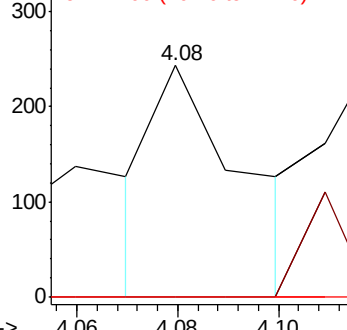
71 0.0 29.7 44.5#



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: 36.494 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.05 min

Lab File: VF061135.D

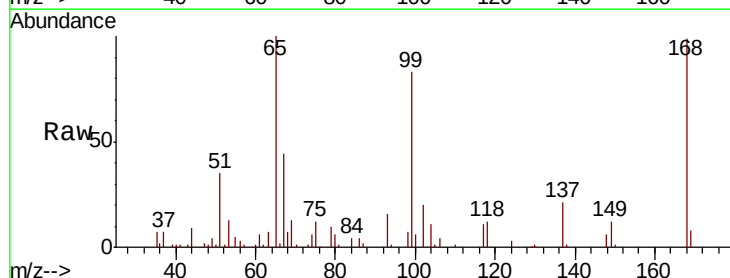
Acq: 21 Dec 2018 19:37

Tgt Ion: 65 Resp: 72789

Ion Ratio Lower Upper

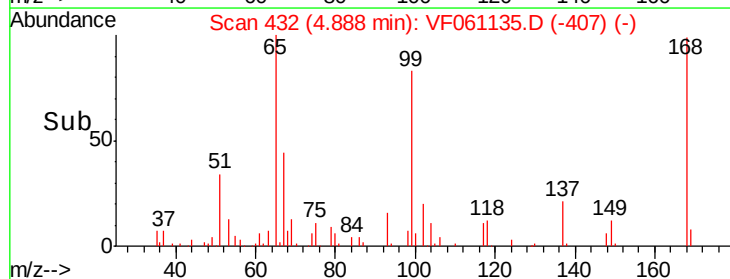
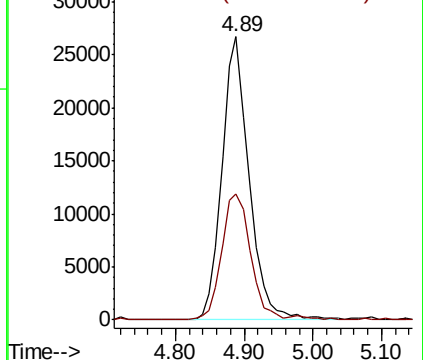
65 100

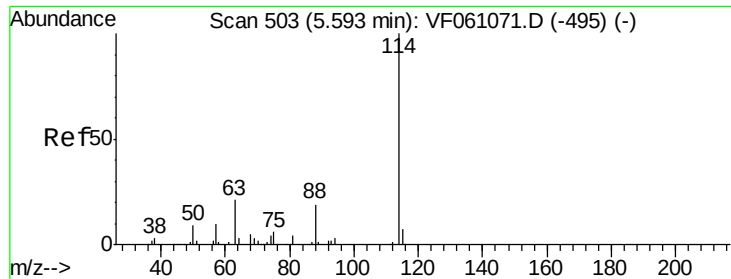
67 44.4 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

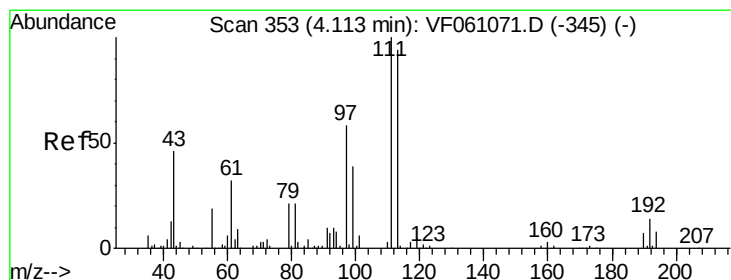
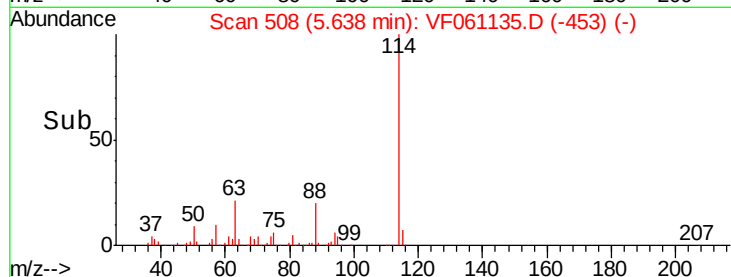
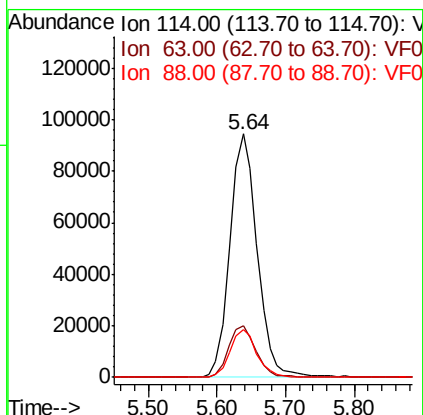
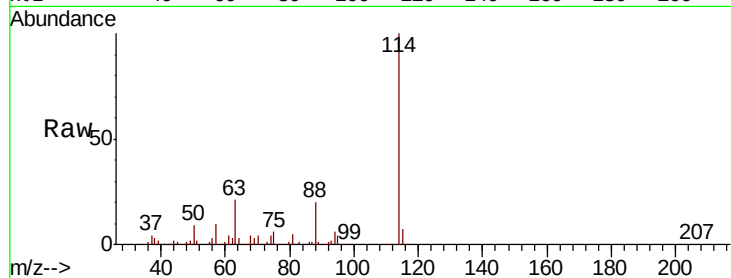




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 508
 Delta R.T. 0.05 min
 Lab File: VF061135.D
 Acq: 21 Dec 2018 19:37

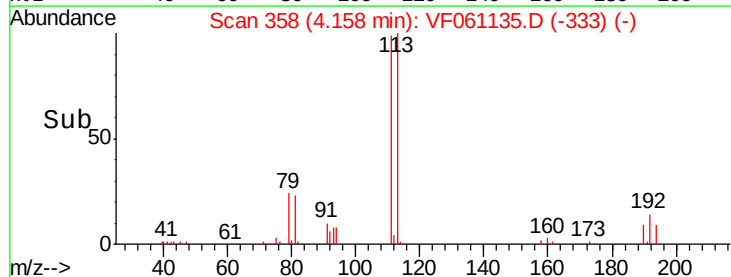
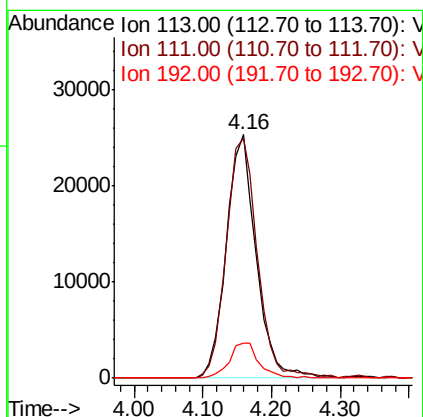
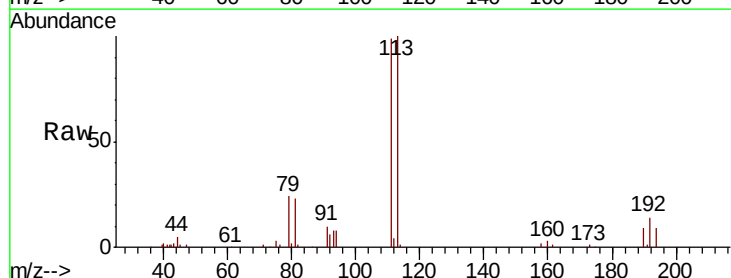
Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0006-01RE

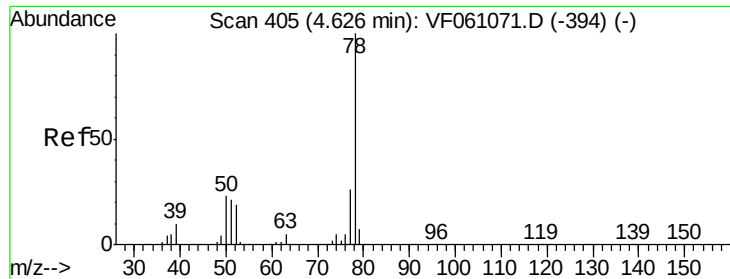
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	41.6
88	19.6	0.0	38.0



#35
 Dibromofluoromethane
 Concen: 36.625 ug/l
 RT: 4.16 min Scan# 358
 Delta R.T. 0.05 min
 Lab File: VF061135.D
 Acq: 21 Dec 2018 19:37

Tgt Ion	Ratio	Lower	Upper
113	100		
111	98.7	85.2	127.8
192	14.2	12.8	19.2





#40

Benzene

Concen: 1.823 ug/l

RT: 4.67 min Scan# 410

Delta R.T. 0.05 min

Lab File: VF061135.D

Acq: 21 Dec 2018 19:37

Instrument :

MSVOA_F

ClientSampleId :

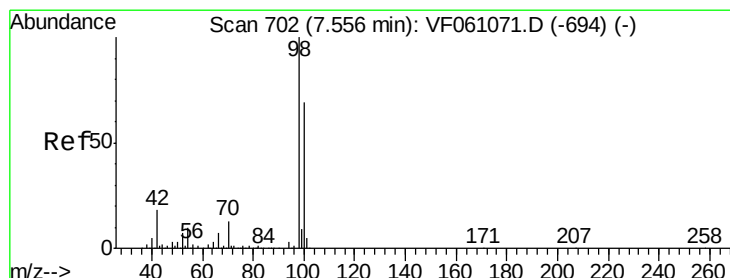
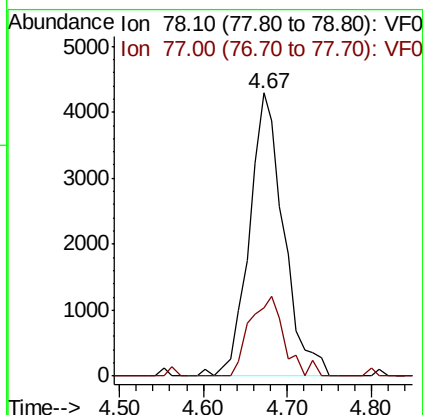
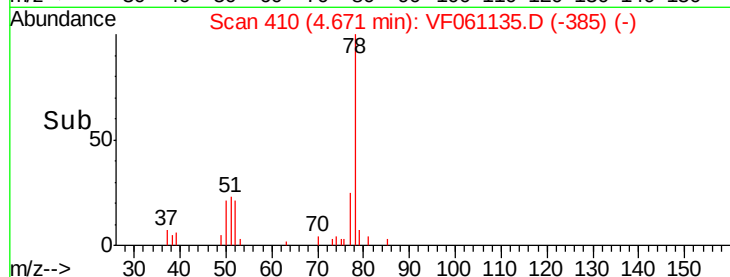
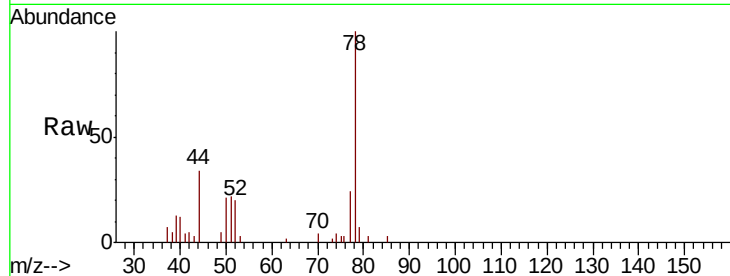
P001-SD006-0006-01RE

Tot Ion: 78 Resp: 12301

Ion Ratio Lower Upper

78 100

77 24.3 20.7 31.1



#50

Toluene-d8

Concen: 28.227 ug/l

RT: 7.59 min Scan# 706

Delta R.T. 0.04 min

Lab File: VF061135.D

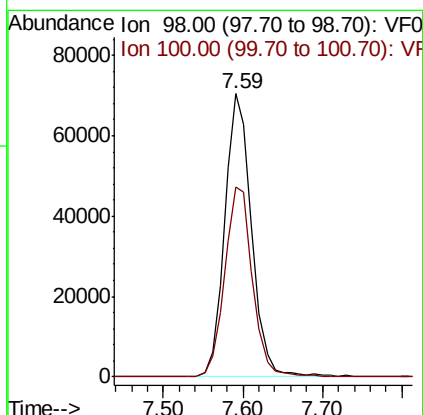
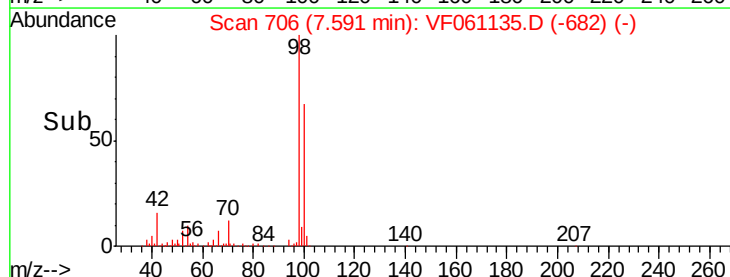
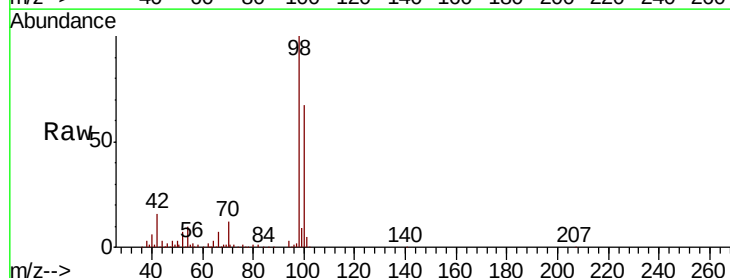
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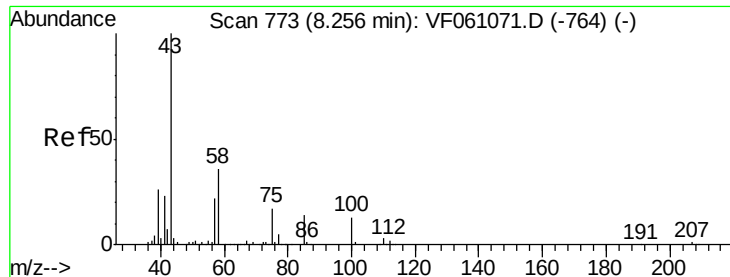
Tgt Ion: 98 Resp: 166592

Ion Ratio Lower Upper

98 100

100 66.9 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 1.580 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.05 min

Lab File: VF061135.D

Acq: 21 Dec 2018 19:37

Instrument :

MSVOA_F

ClientSampleId :

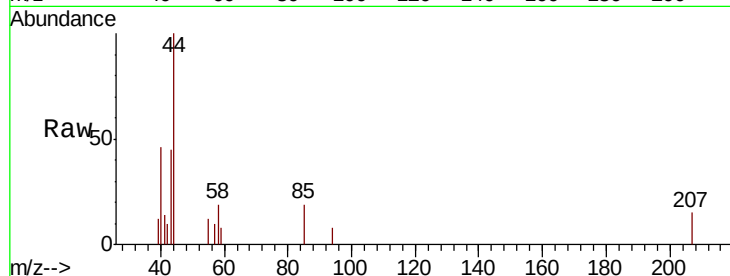
P001-SD006-0006-01RE

Tot Ion: 43 Resp: 1642

Ion Ratio Lower Upper

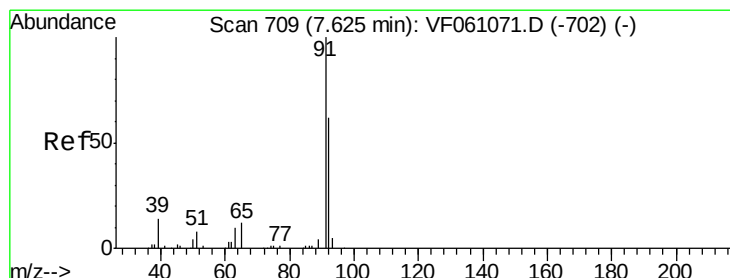
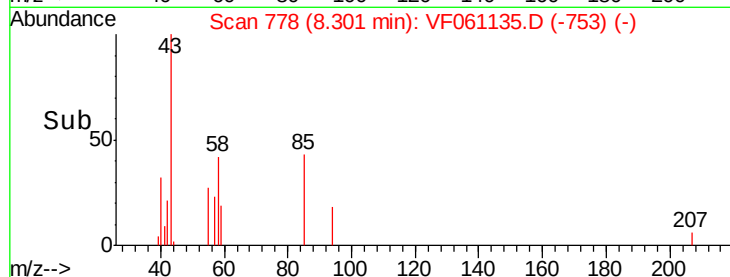
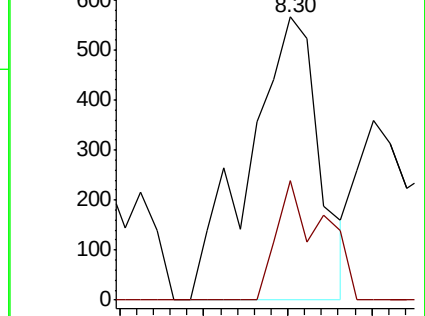
43 100

58 42.2 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 1.272 ug/l

RT: 7.66 min Scan# 713

Delta R.T. 0.04 min

Lab File: VF061135.D

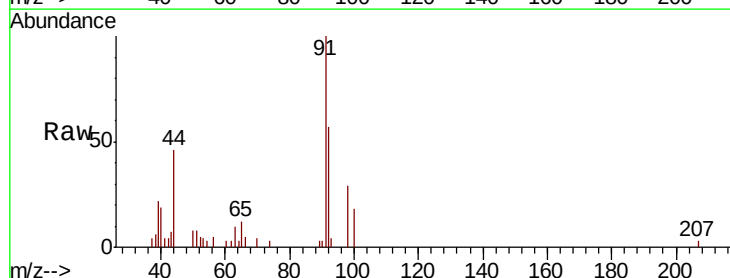
Acq: 21 Dec 2018 19:37

Tgt Ion: 92 Resp: 5682

Ion Ratio Lower Upper

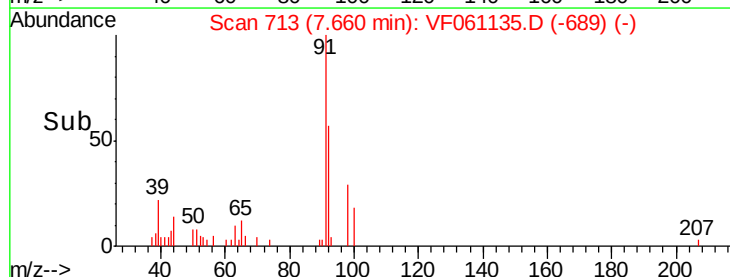
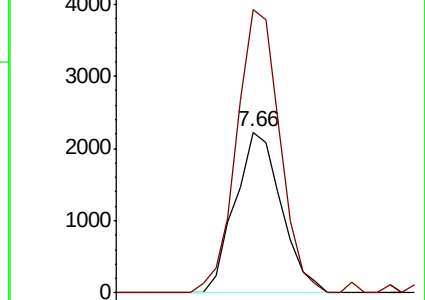
92 100

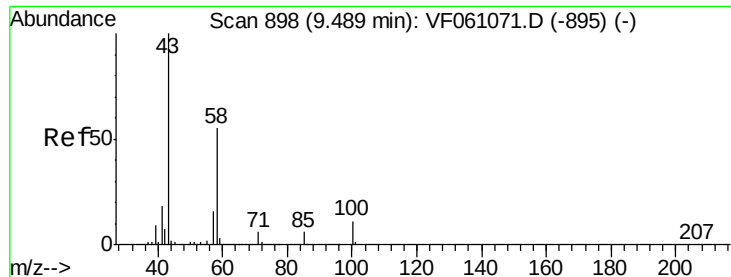
91 176.0 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

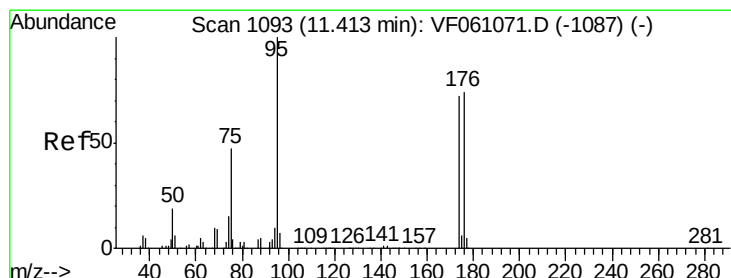
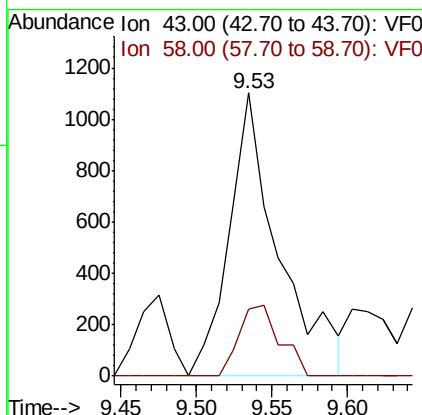
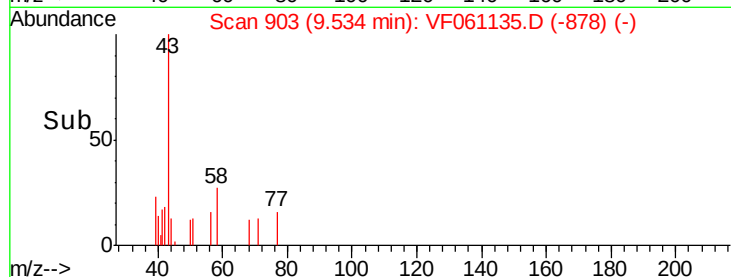
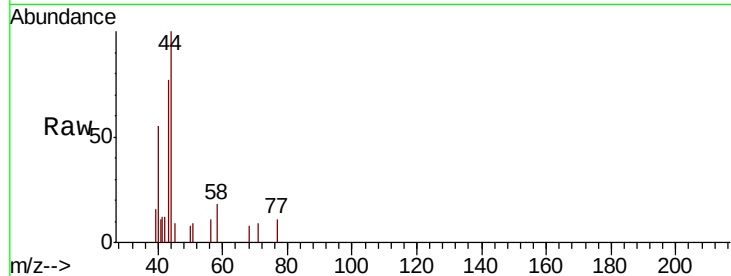




#59
2-Hexanone
Concen: 3.332 ug/l
RT: 9.53 min Scan# 903
Delta R.T. 0.05 min
Lab File: VF061135.D
Acq: 21 Dec 2018 19:37

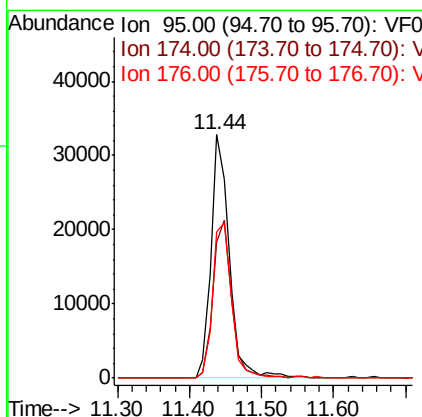
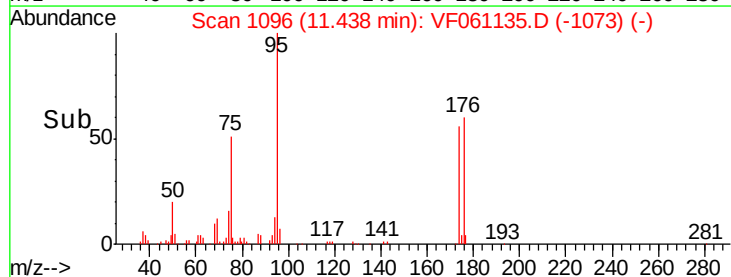
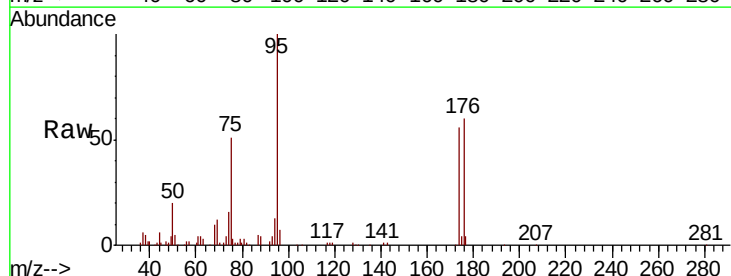
Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0006-01RE

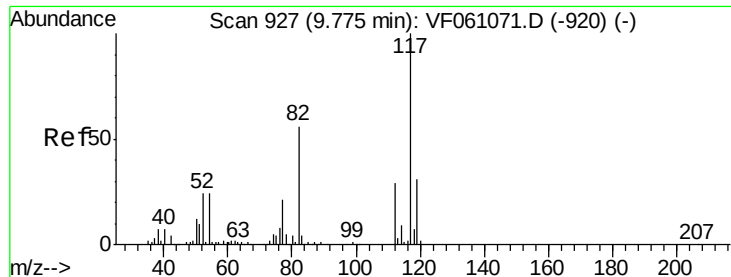
Tot Ion: 43 Resp: 2504
Ion Ratio Lower Upper
43 100
58 23.7 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 21.074 ug/l
RT: 11.44 min Scan# 1096
Delta R.T. 0.03 min
Lab File: VF061135.D
Acq: 21 Dec 2018 19:37

Tgt Ion: 95 Resp: 57340
Ion Ratio Lower Upper
95 100
174 56.1 0.0 143.8
176 59.9 0.0 147.6

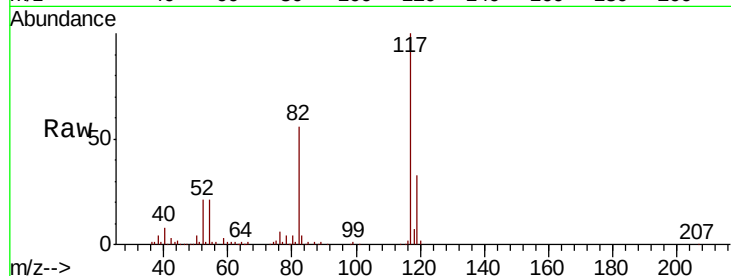




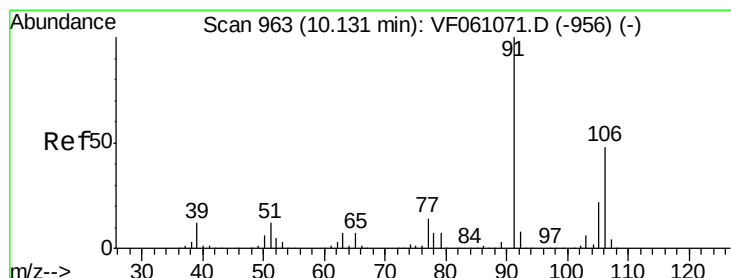
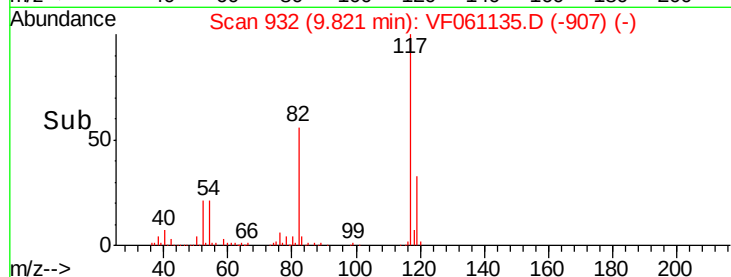
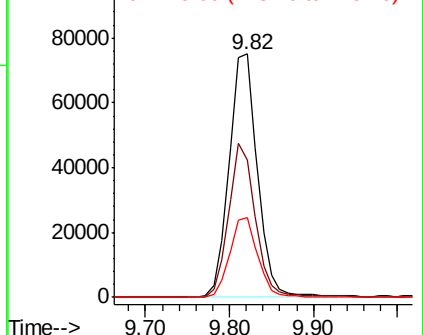
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.82 min Scan# 932
Delta R.T. 0.05 min
Lab File: VF061135.D
Acq: 21 Dec 2018 19:37

Instrument :
MSVOA_F
ClientSampleId :
P001-SD006-0006-01RE

Tot Ion:117 Resp: 176869
Ion Ratio Lower Upper
117 100
82 56.2 45.0 67.4
119 32.9 24.8 37.2

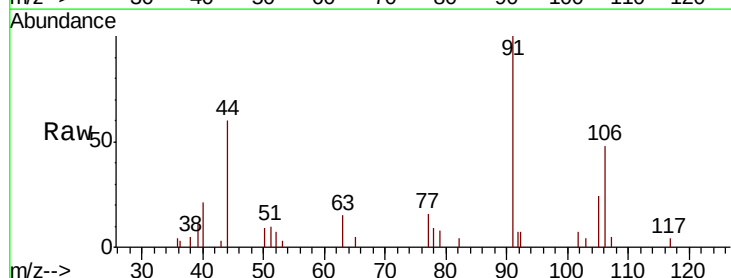


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

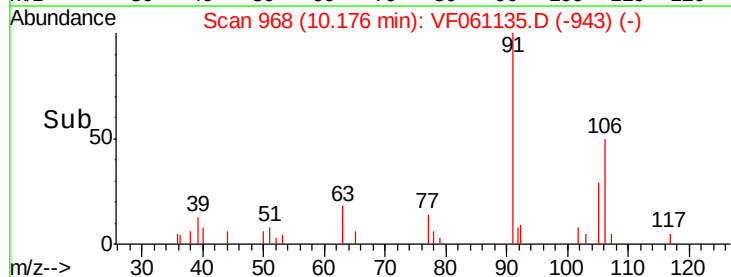
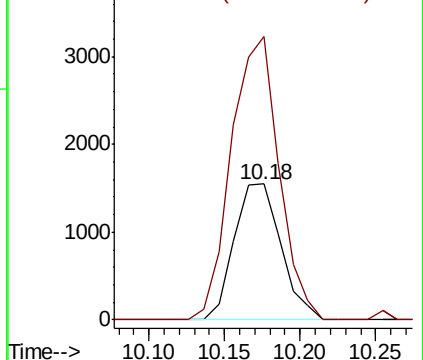


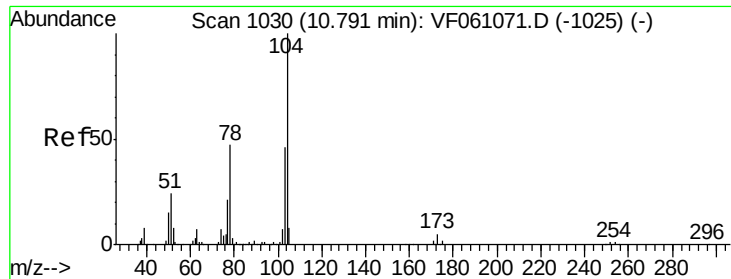
#68
m/p-Xylenes
Concen: 1.425 ug/l
RT: 10.18 min Scan# 968
Delta R.T. 0.05 min
Lab File: VF061135.D
Acq: 21 Dec 2018 19:37

Tgt Ion:106 Resp: 3338
Ion Ratio Lower Upper
106 100
91 208.5 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0





#70

Stvrene

Concen: Below Cal

RT: 10.84 min Scan# 1035

Delta R.T. 0.05 min

Lab File: VF061135.D

Acq: 21 Dec 2018 19:37

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-01RE

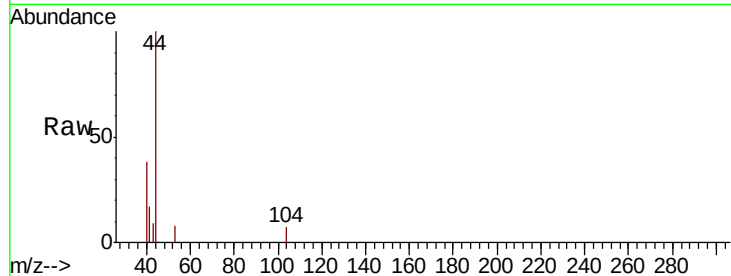
Tot Ion:104 Resp: 64

Ion Ratio Lower Upper

104 100

78 0.0 38.4 57.6#

103 0.0 37.0 55.6#



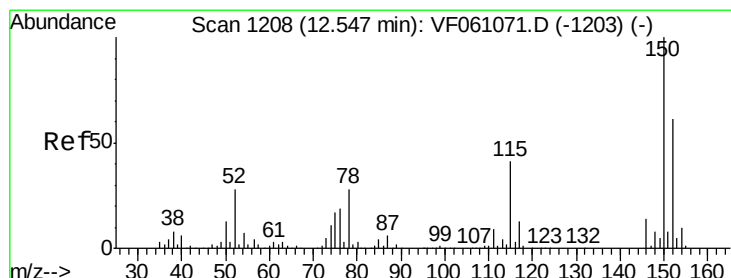
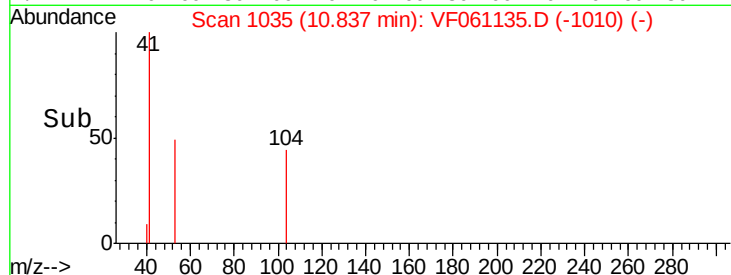
Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V

10.84

Time--> 10.80 10.82 10.84 10.86



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.58 min Scan# 1212

Delta R.T. 0.04 min

Lab File: VF061135.D

Acq: 21 Dec 2018 19:37

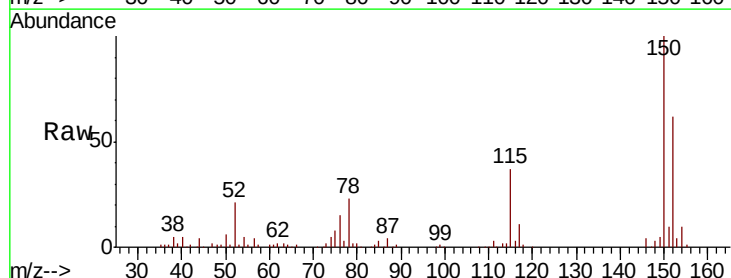
Tgt Ion:152 Resp: 54389

Ion Ratio Lower Upper

152 100

115 59.9 33.3 99.9

150 161.4 0.0 328.2



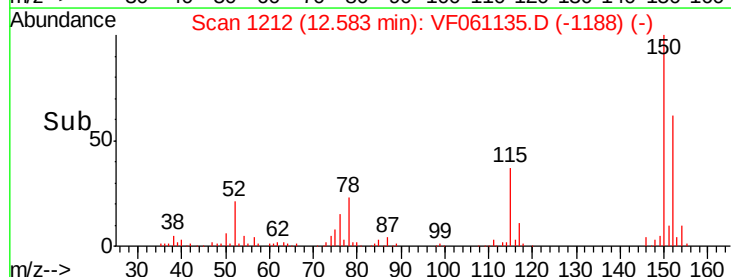
Abundance Ion 152.00 (151.70 to 152.70): V

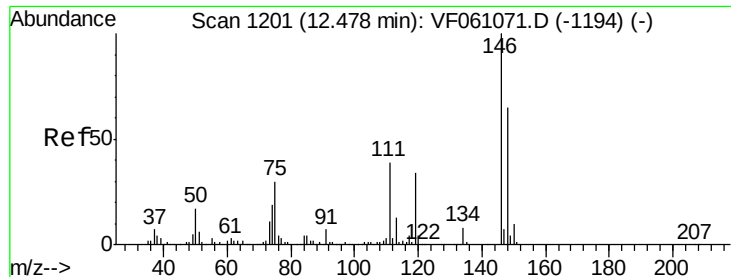
Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

12.58

Time--> 12.50 12.60 12.70

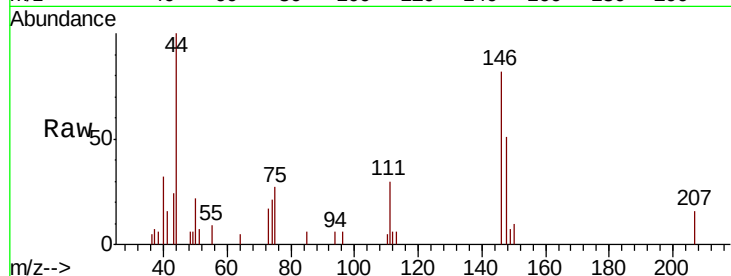




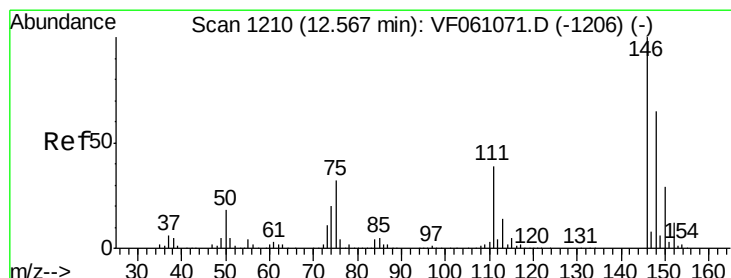
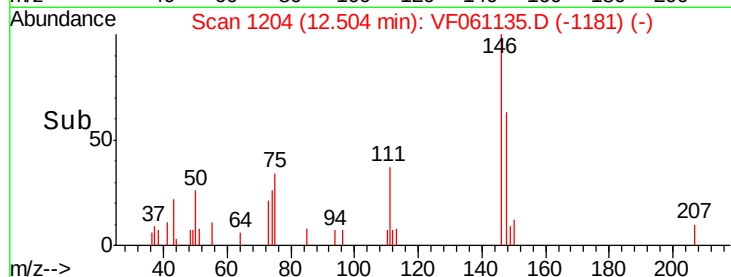
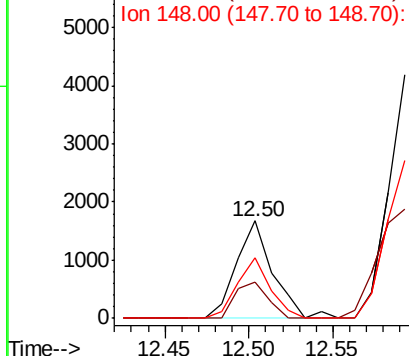
#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 12.50 min Scan# 1204
 Delta R.T. 0.03 min
 Lab File: VF061135.D
 Acq: 21 Dec 2018 19:37

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SD006-0006-01RE

Tot Ion:146 Resp: 2523
 Ion Ratio Lower Upper
 146 100
 111 37.2 19.3 57.9
 148 62.7 32.4 97.2

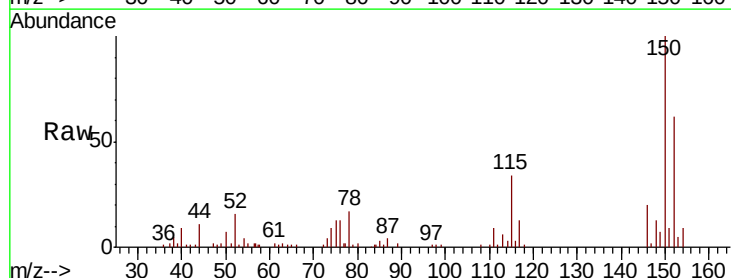


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

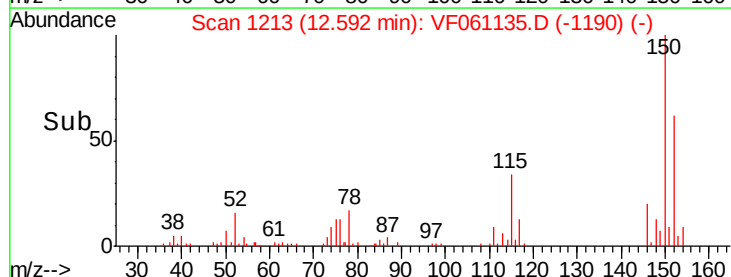
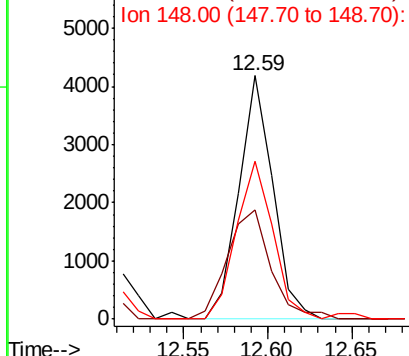


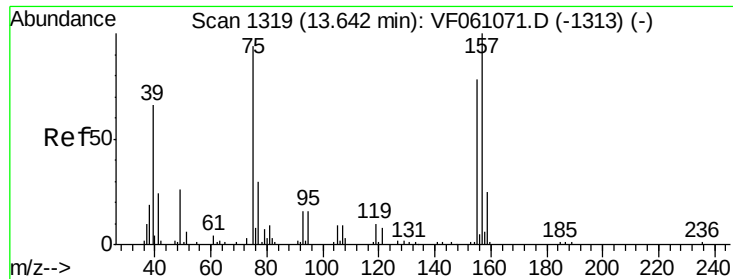
#88
 1,4-Dichlorobenzene
 Concen: 3.174 ug/l
 RT: 12.59 min Scan# 1213
 Delta R.T. 0.03 min
 Lab File: VF061135.D
 Acq: 21 Dec 2018 19:37

Tgt Ion:146 Resp: 5880
 Ion Ratio Lower Upper
 146 100
 111 44.7 19.4 58.4
 148 65.1 32.4 97.0



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: 2.095 ug/l

RT: 13.70 min Scan# 1325

Delta R.T. 0.05 min

Lab File: VF061135.D

Acq: 21 Dec 2018 19:37

Instrument :

MSVOA_F

ClientSampleId :

P001-SD006-0006-01RE

Tot Ion: 75 Resp: 299

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

157 0.0 53.2 159.6#

