

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030819\
 Data File : VF061879.D
 Acq On : 8 Mar 2019 23:06
 Operator : VA/AP
 Sample : K1807-29
 Misc : 5.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-14

Quant Time: Mar 09 00:48:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	48840	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.59	114	64025	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	45611	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	20954	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	10163	28.57	ug/l	-0.02
Spiked Amount			Recovery	=	57.14%	
35) Dibromofluoromethane	4.10	113	18444	41.28	ug/l	-0.02
Spiked Amount			Recovery	=	82.56%	
50) Toluene-d8	7.54	98	57605	43.38	ug/l	-0.02
Spiked Amount			Recovery	=	86.76%	
62) 4-Bromofluorobenzene	11.41	95	18901	36.33	ug/l	-0.01
Spiked Amount			Recovery	=	72.66%	

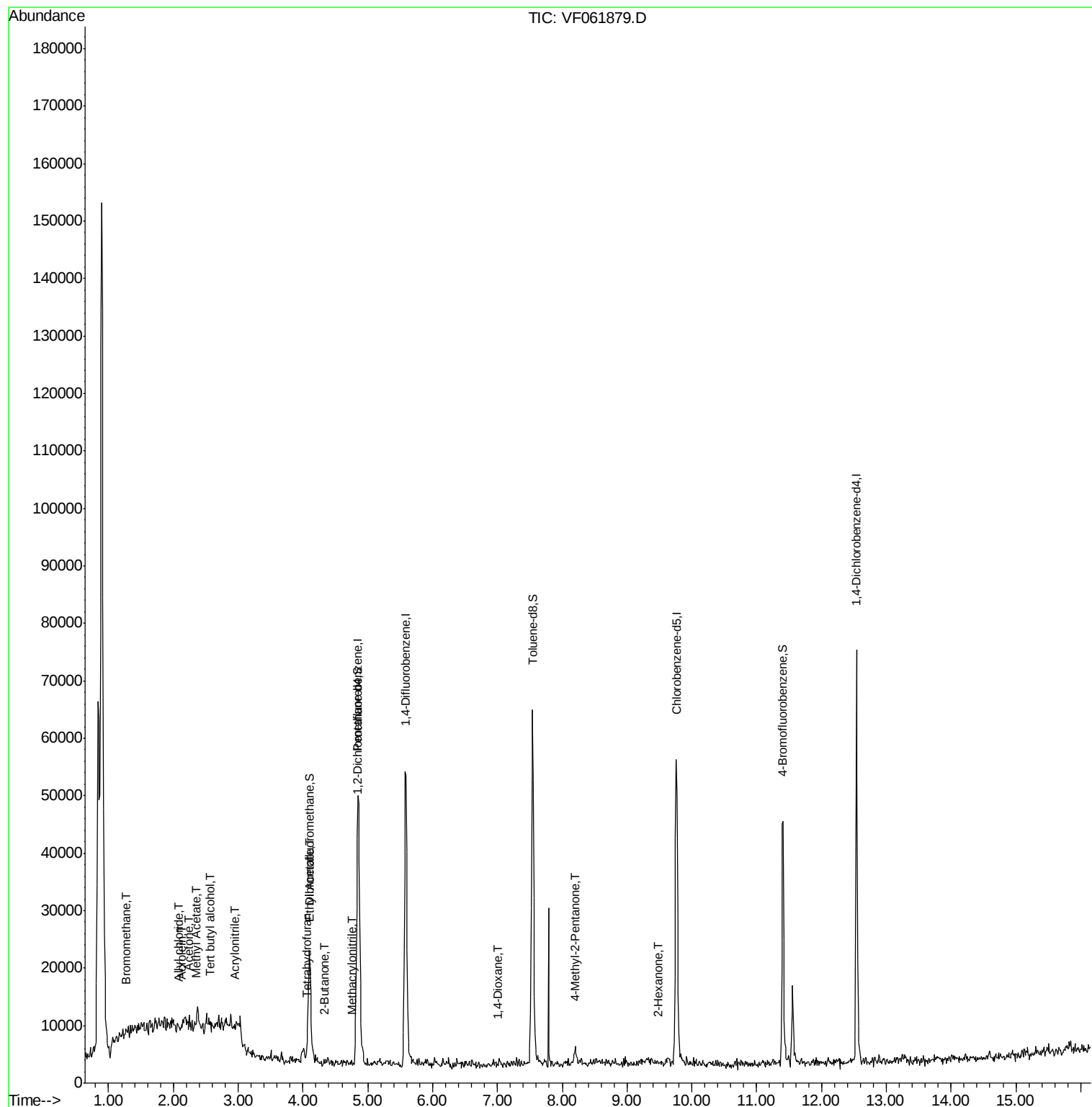
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.27	94	686	1.825	ug/l #	3
11) Tert butyl alcohol	2.58	59	69	3.418	ug/l #	1
13) Acrolein	2.12	56	334	13.057	ug/l	93
14) Allyl chloride	2.09	41	1073	2.332	ug/l #	77
15) Acrylonitrile	2.94	53	367	5.709	ug/l #	16
16) Acetone	2.24	43	1479	19.851	ug/l #	50
18) Methyl Acetate	2.34	43	1959	8.553	ug/l #	62
20) Methylene Chloride	2.18	84	777	Below Cal	#	82
25) 2-Butanone	4.33	43	325	2.145	ug/l #	56
29) Tetrahydrofuran	4.05	42	96	1.469	ug/l #	22
37) Ethyl Acetate	4.12	43	274	1.079	ug/l #	20
41) Methacrylonitrile	4.76	41	145	1.043	ug/l #	24
49) 1,4-Dioxane	7.01	88	60	33.143	ug/l #	26
51) 4-Methyl-2-Pentanone	8.20	43	293	1.355	ug/l #	35
59) 2-Hexanone	9.47	43	221	1.417	ug/l #	22

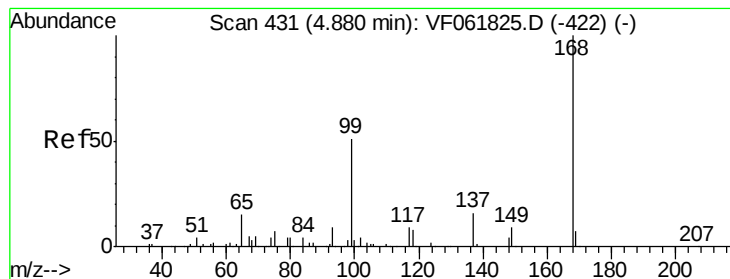
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.02 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Instrument :

MSVOA_F

ClientSampleId :

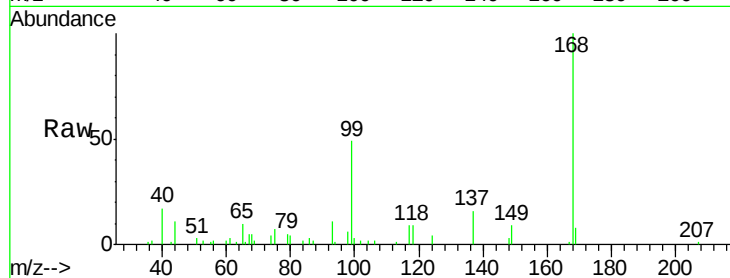
TP-14

Tot Ion:168 Resp: 48840

Ion Ratio Lower Upper

168 100

99 48.6 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

15000

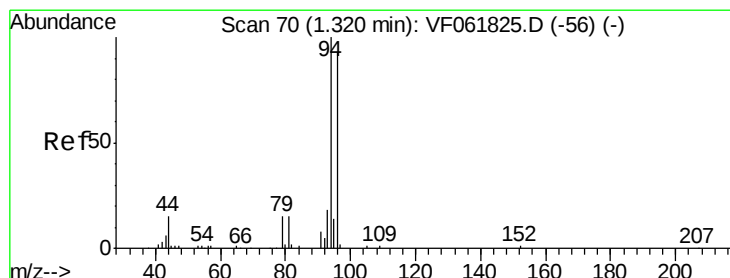
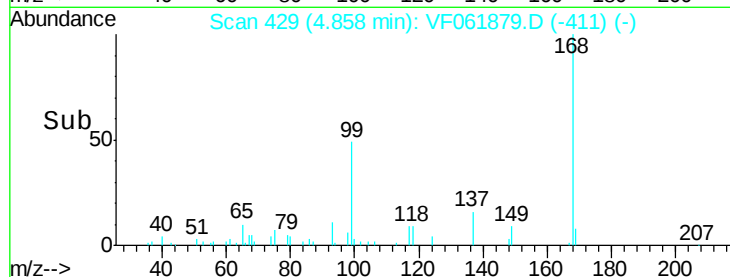
10000

5000

0

Time-->

4.70 4.80 4.90 5.00



#5

Bromomethane

Concen: 1.825 ug/l

RT: 1.27 min Scan# 65

Delta R.T. -0.05 min

Lab File: VF061879.D

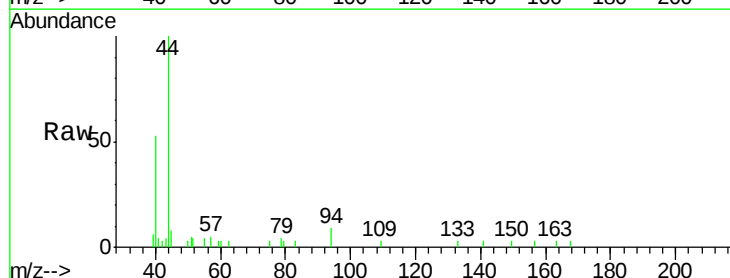
Acq: 8 Mar 2019 23:06

Tgt Ion: 94 Resp: 686

Ion Ratio Lower Upper

94 100

96 0.0 75.2 112.8#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

400

300

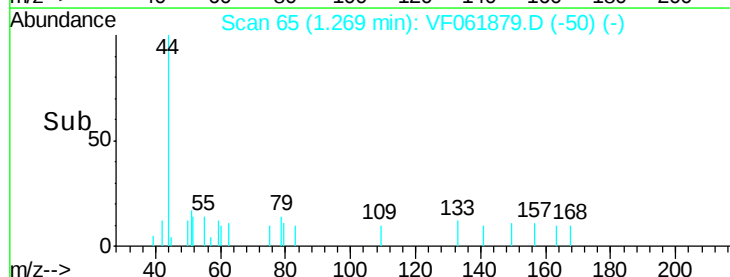
200

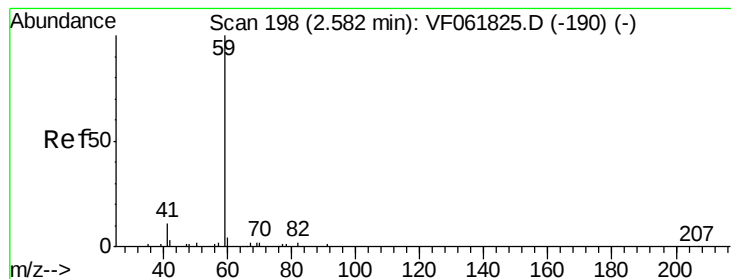
100

0

Time-->

1.25 1.30



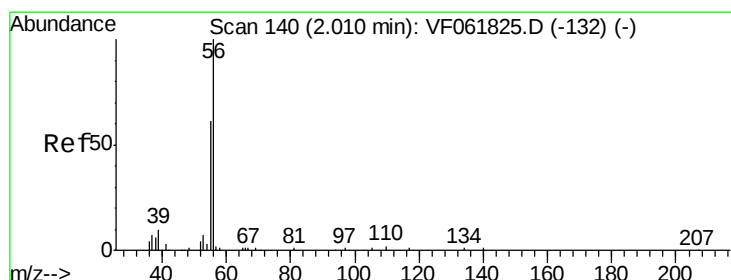
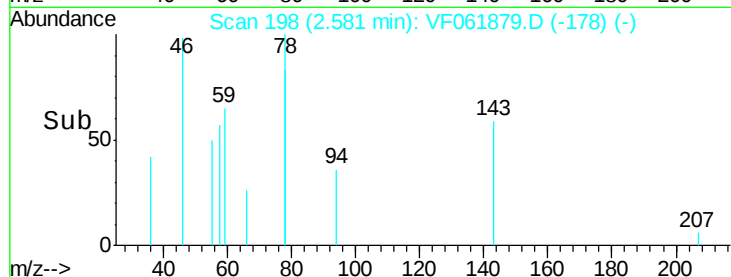
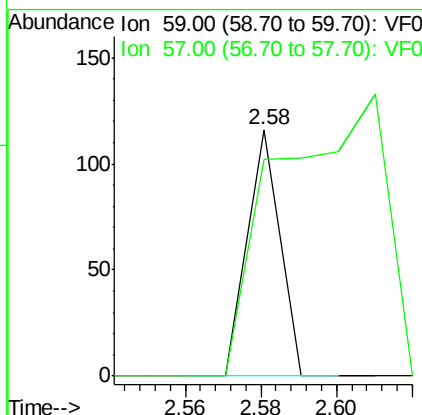
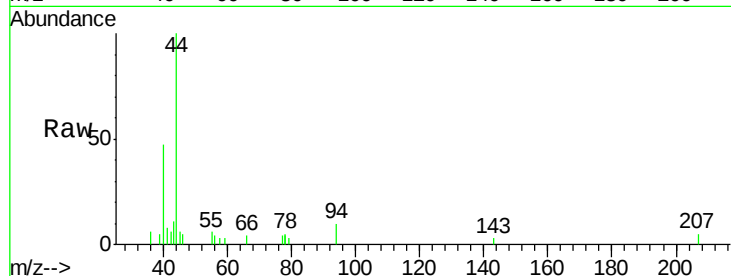


#11

Tert butyl alcohol
Concen: 3.418 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061879.D
Acq: 8 Mar 2019 23:06

Instrument :
MSVOA_F
ClientSampled :
TP-14

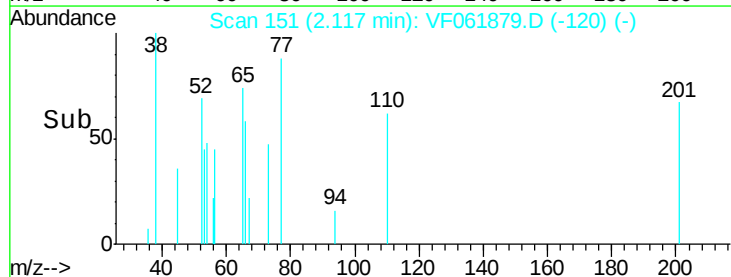
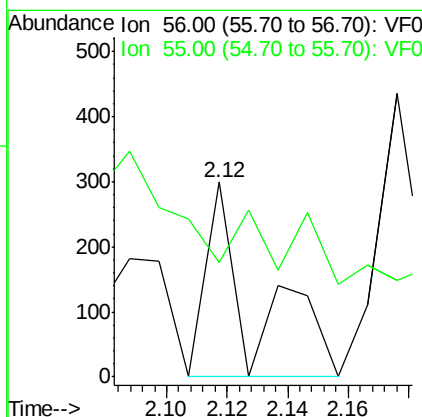
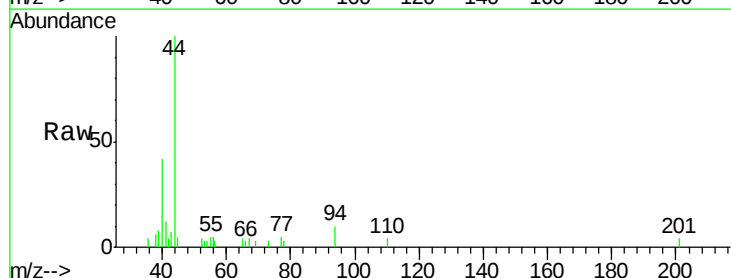
Tot Ion: 59 Resp: 69
Ion Ratio Lower Upper
59 100
57 87.9 11.8 17.6#

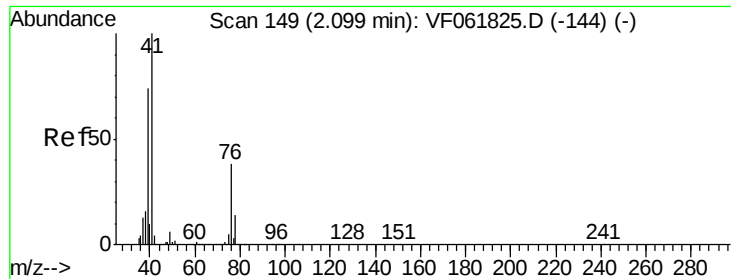


#13

Acrolein
Concen: 13.057 ug/l
RT: 2.12 min Scan# 151
Delta R.T. 0.11 min
Lab File: VF061879.D
Acq: 8 Mar 2019 23:06

Tgt Ion: 56 Resp: 334
Ion Ratio Lower Upper
56 100
55 58.9 51.3 76.9





#14

Allvl chloride

Concen: 2.332 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Instrument :

MSVOA_F

ClientSampled :

TP-14

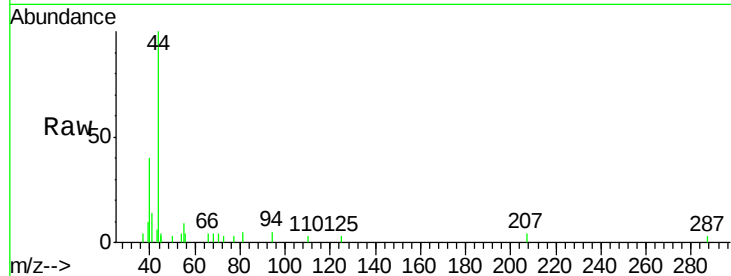
Tot Ion: 41 Resp: 1073

Ion Ratio Lower Upper

41 100

39 73.9 59.6 89.4

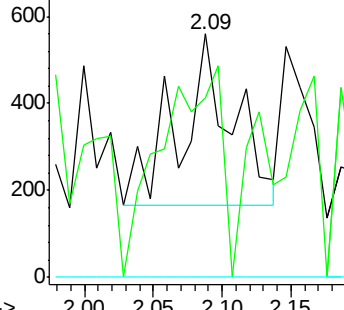
76 0.0 32.3 48.5#



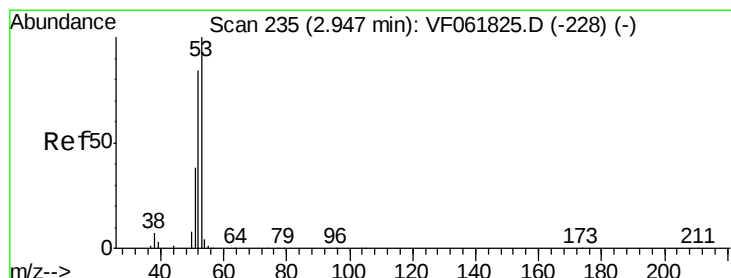
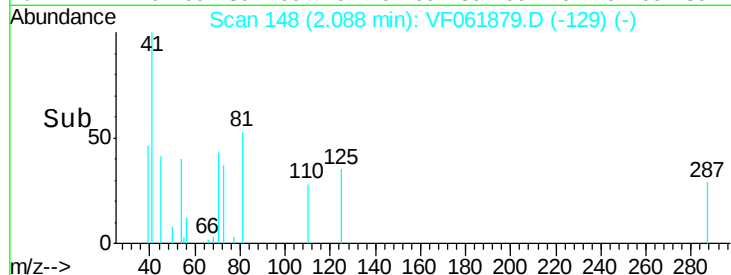
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->



#15

Acrylonitrile

Concen: 5.709 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

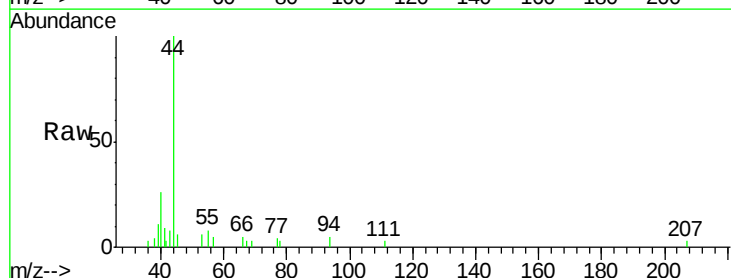
Tgt Ion: 53 Resp: 367

Ion Ratio Lower Upper

53 100

52 0.0 67.4 101.0#

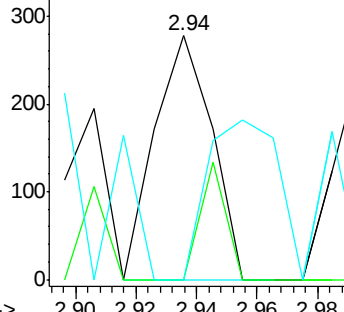
51 0.0 30.7 46.1#



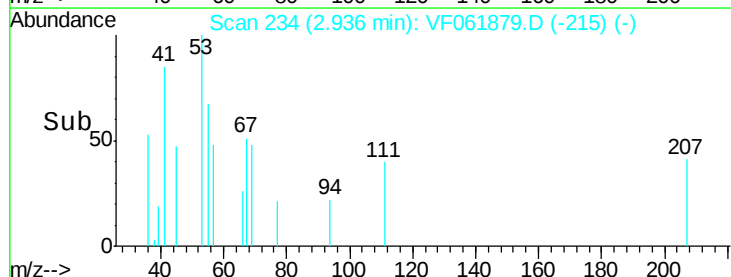
Abundance Ion 53.00 (52.70 to 53.70): VF0

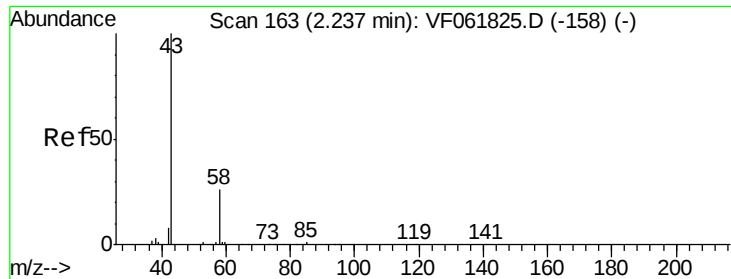
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->





#16

Acetone

Concen: 19.851 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Instrument :

MSVOA_F

ClientSampled :

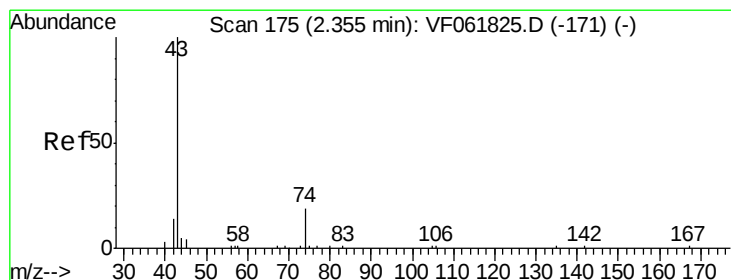
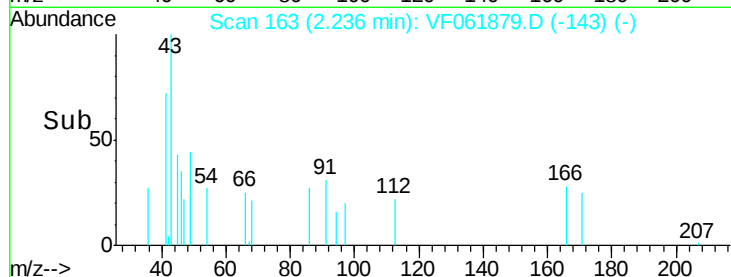
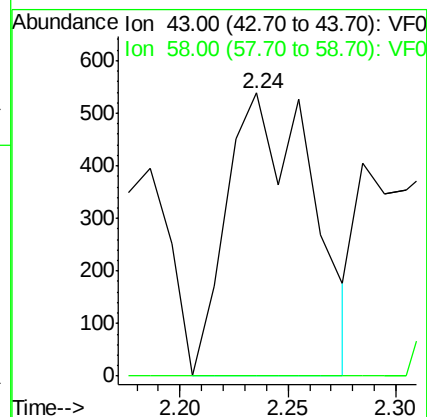
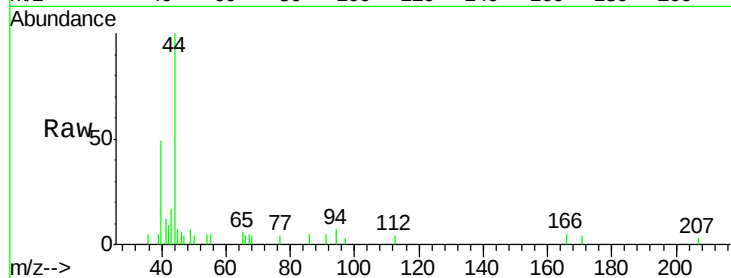
TP-14

Tot Ion: 43 Resp: 1479

Ion Ratio Lower Upper

43 100

58 0.0 20.3 30.5#



#18

Methyl Acetate

Concen: 8.553 ug/l

RT: 2.34 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061879.D

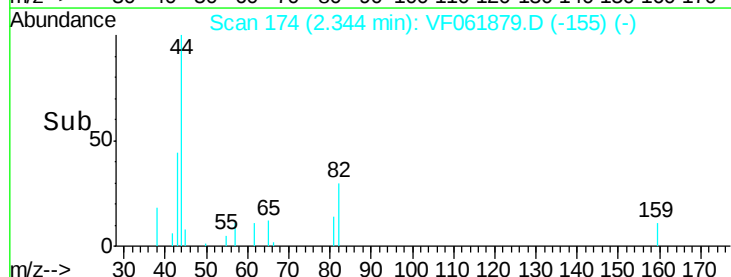
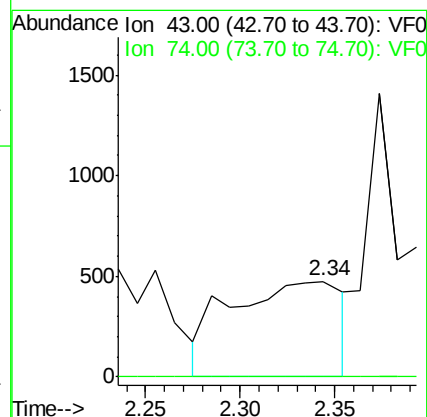
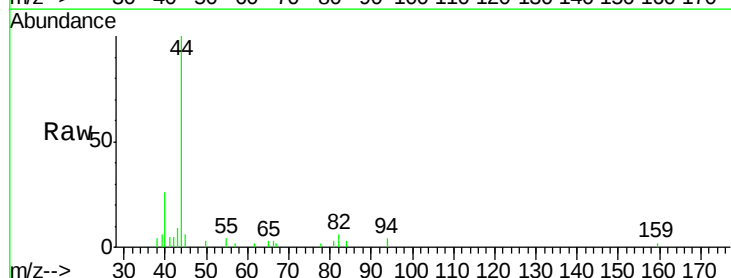
Acq: 8 Mar 2019 23:06

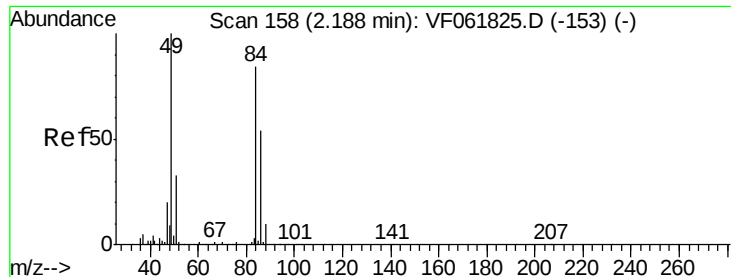
Tgt Ion: 43 Resp: 1959

Ion Ratio Lower Upper

43 100

74 0.0 13.2 19.8#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.18 min Scan# 157

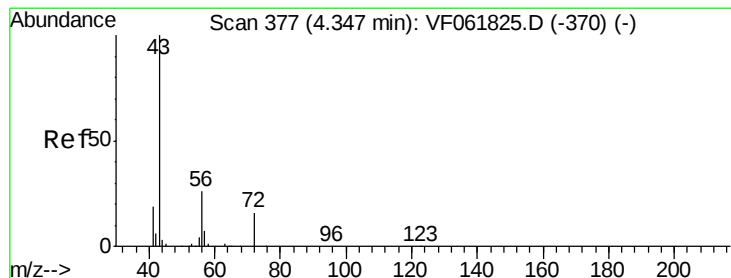
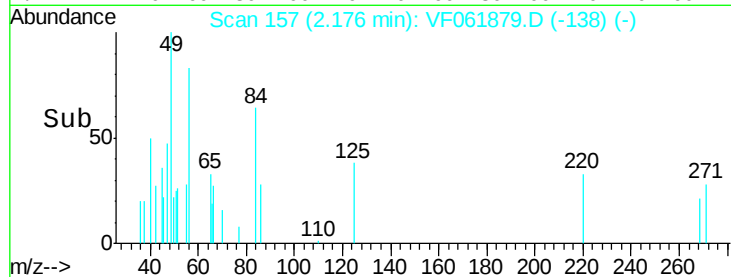
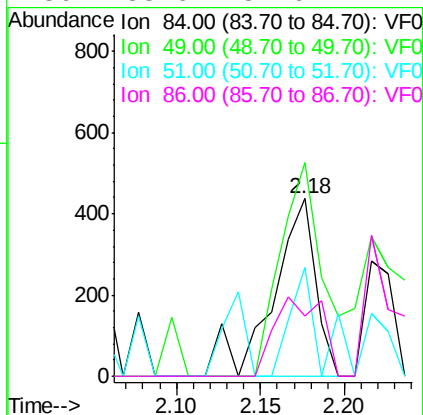
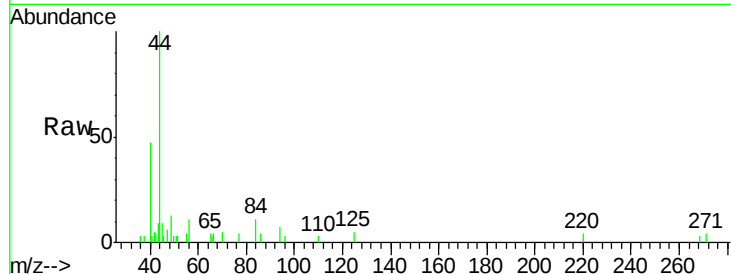
Delta R.T. -0.01 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Instrument :
MSVOA_F
ClientSampled :
TP-14

Tot Ion:	84	Resp:	777
Ion	Ratio	Lower	Upper
84	100		
49	120.4	96.8	145.2
51	61.6	31.8	47.6#
86	33.6	51.6	77.4#



#25

2-Butanone

Concen: 2.145 ug/l

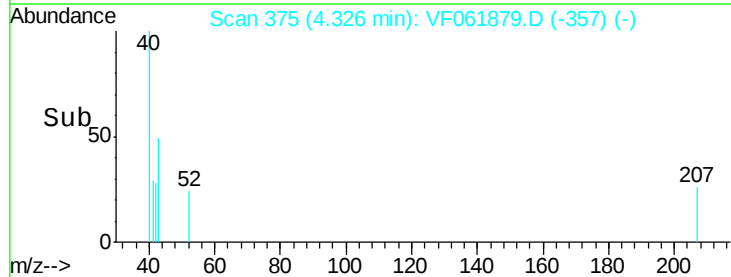
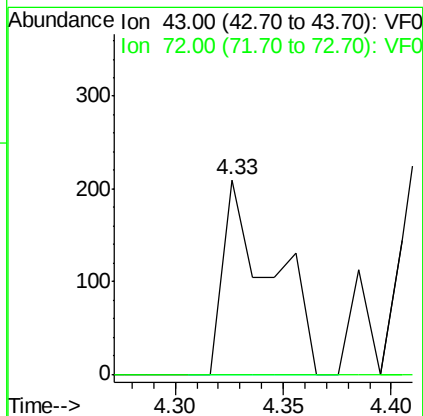
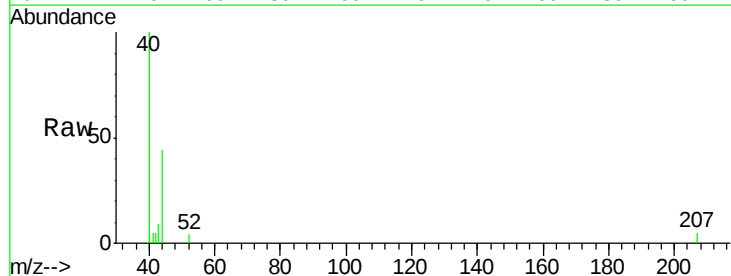
RT: 4.33 min Scan# 375

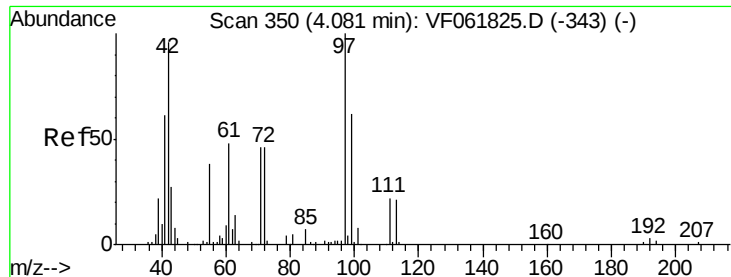
Delta R.T. -0.02 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Tgt Ion:	43	Resp:	325
Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.2	24.4#

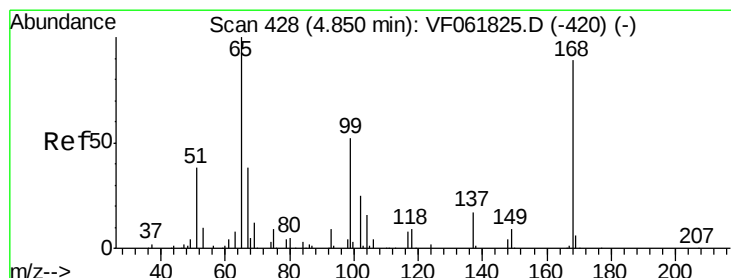
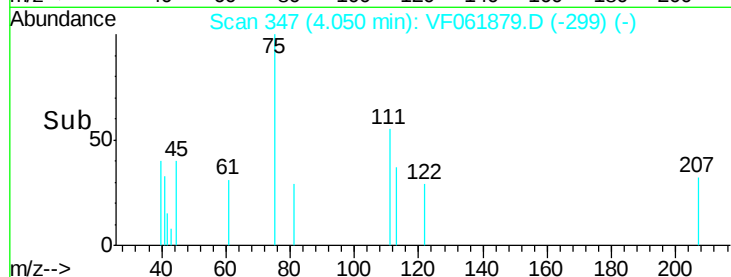
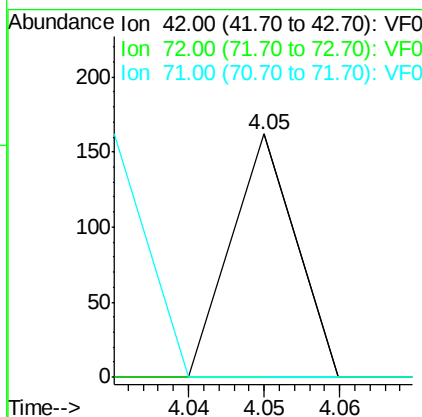
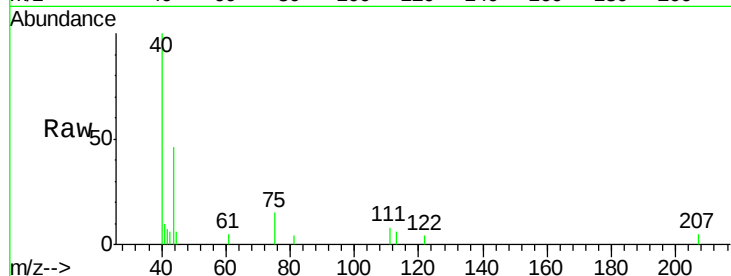




#29
Tetrahydrofuran
Concen: 1.469 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.03 min
Lab File: VF061879.D
Acq: 8 Mar 2019 23:06

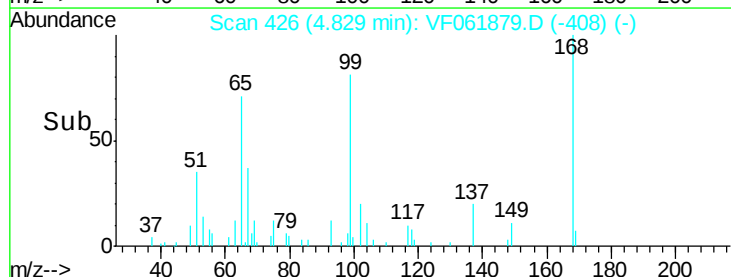
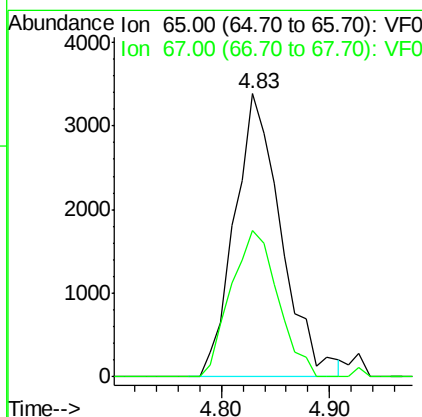
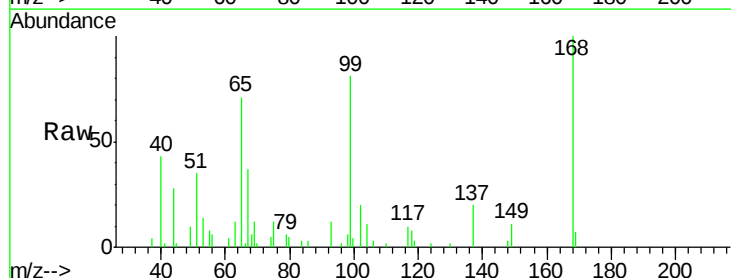
Instrument :
MSVOA_F
ClientSampled :
TP-14

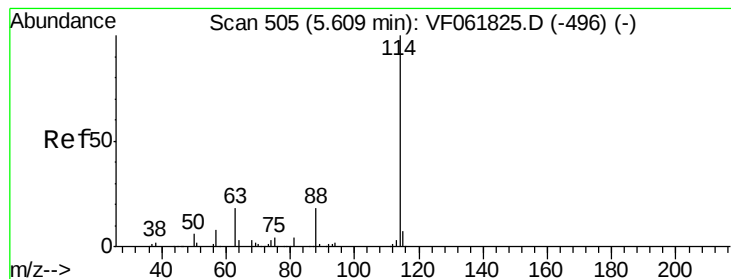
Tot Ion: 42 Resp: 96
Ion Ratio Lower Upper
42 100
72 0.0 34.4 51.6#
71 100.0 34.6 52.0#



#33
1,2-Dichloroethane-d4
Concen: 28.574 ug/l
RT: 4.83 min Scan# 426
Delta R.T. -0.02 min
Lab File: VF061879.D
Acq: 8 Mar 2019 23:06

Tgt Ion: 65 Resp: 10163
Ion Ratio Lower Upper
65 100
67 51.9 0.0 108.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Instrument :

MSVOA_F

ClientSampleId :

TP-14

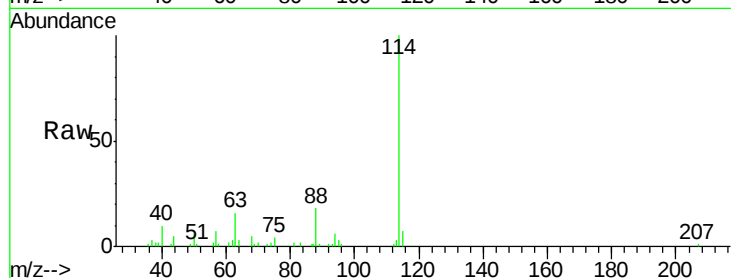
Tot Ion:114 Resp: 64025

Ion Ratio Lower Upper

114 100

63 15.8 0.0 35.6

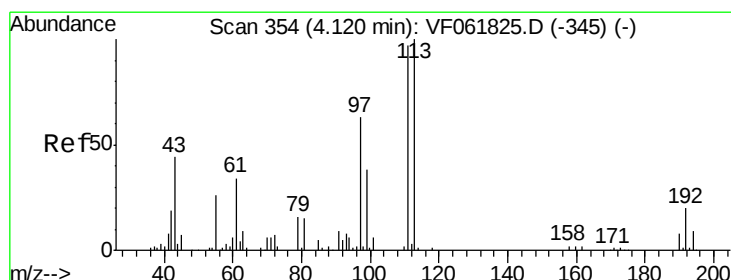
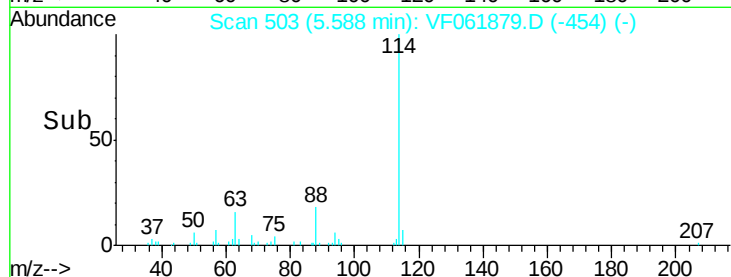
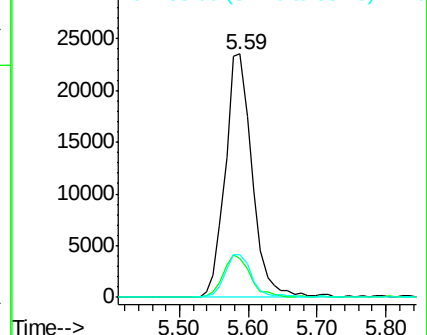
88 17.8 0.0 35.6



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: 41.279 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

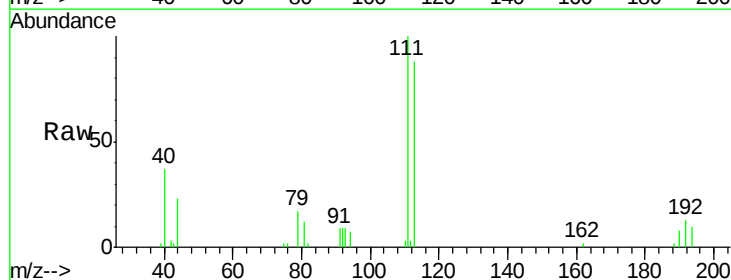
Tgt Ion:113 Resp: 18444

Ion Ratio Lower Upper

113 100

111 113.9 77.6 116.4

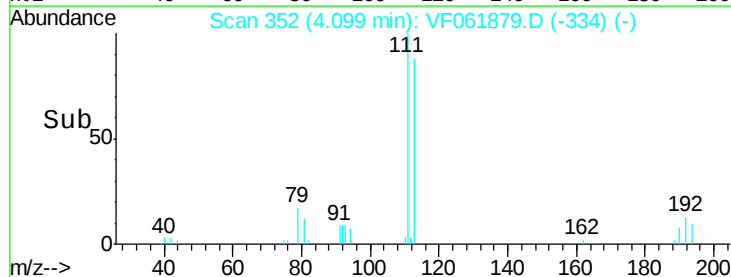
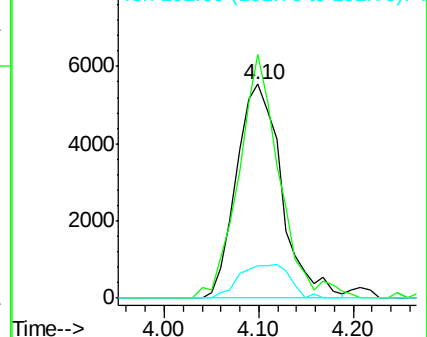
192 15.0 15.9 23.9#

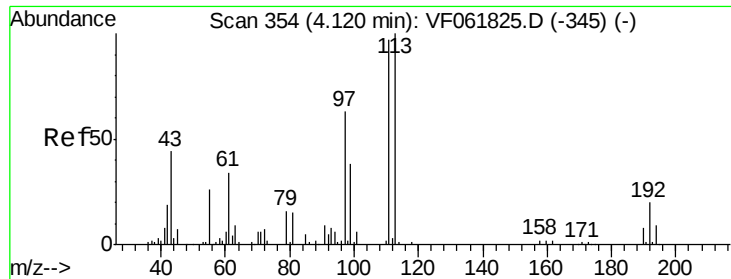


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

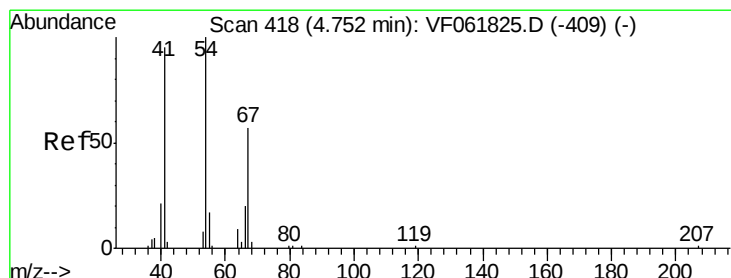
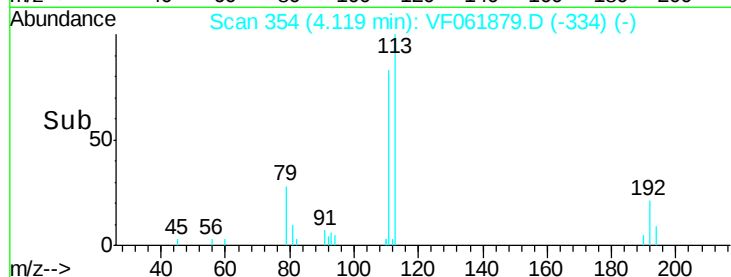
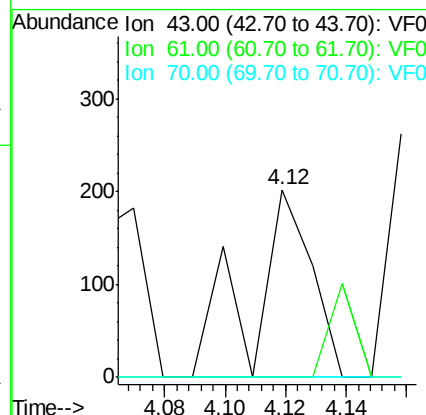
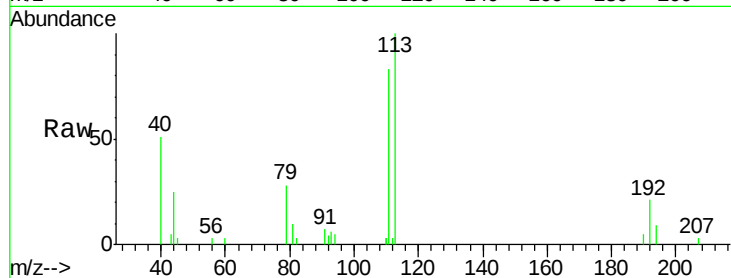




#37
Ethyl Acetate
Concen: 1.079 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.00 min
Lab File: VF061879.D
Acq: 8 Mar 2019 23:06

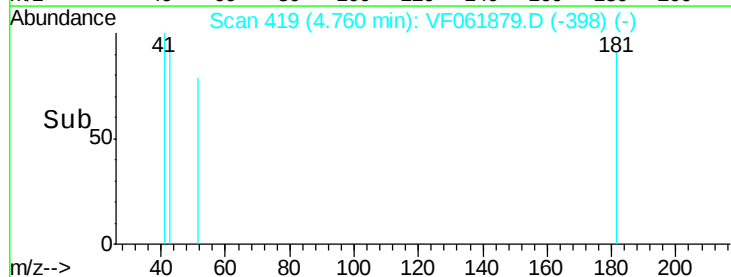
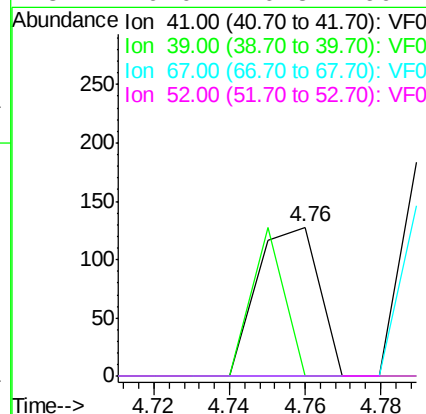
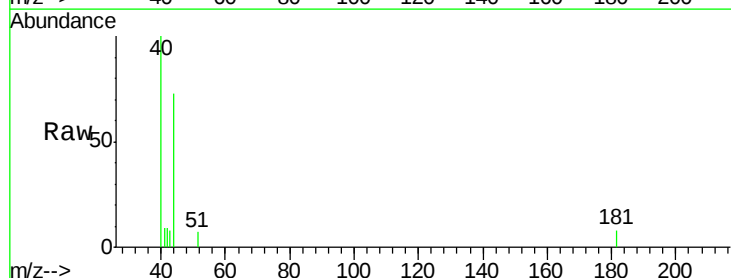
Instrument :
MSVOA_F
ClientSampleId :
TP-14

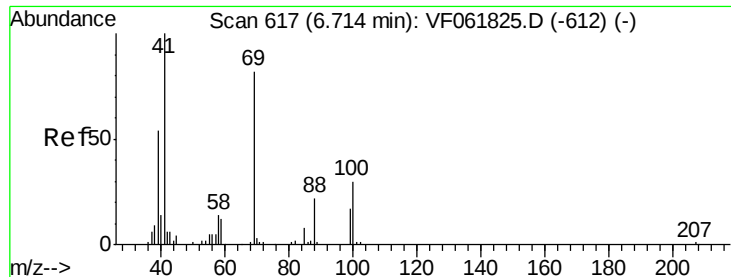
Tot Ion: 43 Resp: 274
Ion Ratio Lower Upper
43 100
61 0.0 60.7 91.1#
70 0.0 10.6 15.8#



#41
Methacrylonitrile
Concen: 1.043 ug/l
RT: 4.76 min Scan# 419
Delta R.T. 0.01 min
Lab File: VF061879.D
Acq: 8 Mar 2019 23:06

Tgt Ion: 41 Resp: 145
Ion Ratio Lower Upper
41 100
39 0.0 43.0 64.6#
67 0.0 47.8 71.8#
52 0.0 40.5 60.7#





#49

1,4-Dioxane

Concen: 33.143 ug/l

RT: 7.01 min Scan# 647

Delta R.T. 0.29 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Instrument :

MSVOA_F

ClientSampled :

TP-14

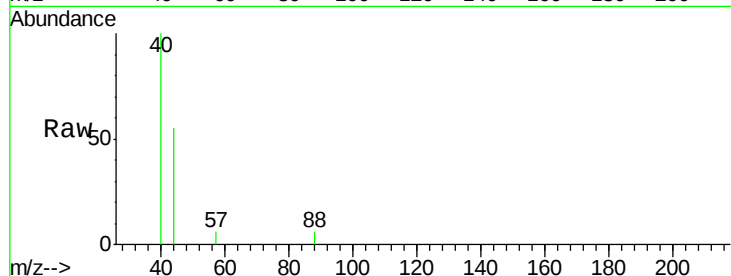
Tot Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 0.0 28.4 42.6#

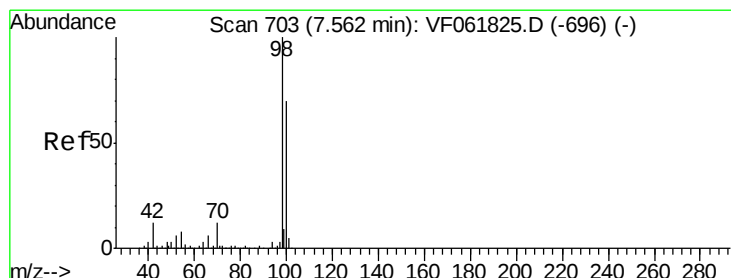
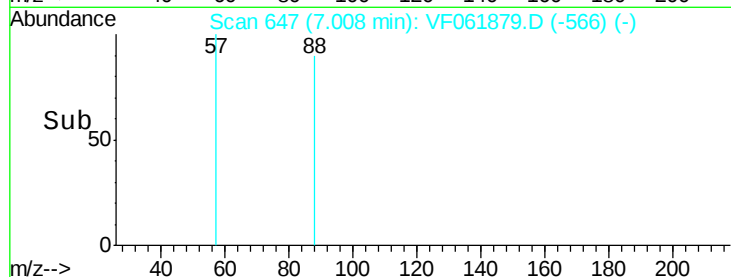
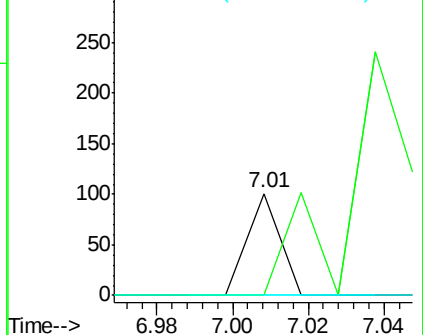
58 0.0 50.7 76.1#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 43.375 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.02 min

Lab File: VF061879.D

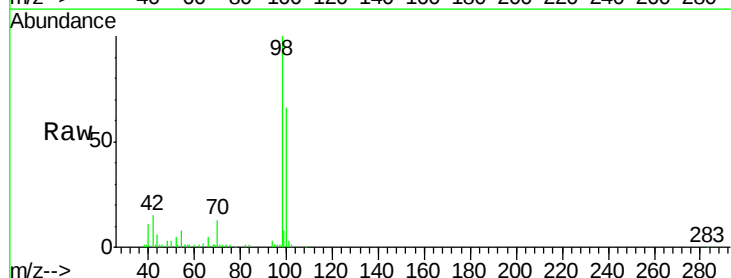
Acq: 8 Mar 2019 23:06

Tgt Ion: 98 Resp: 57605

Ion Ratio Lower Upper

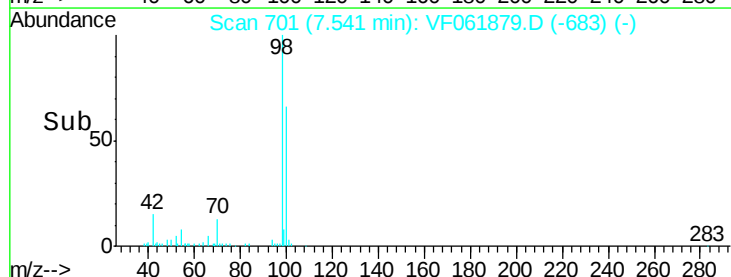
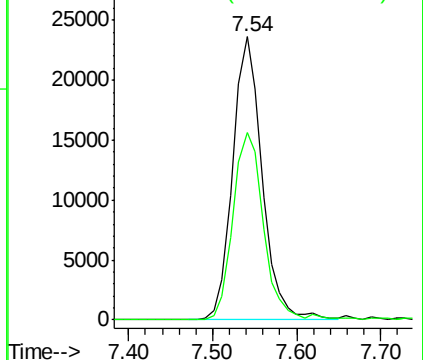
98 100

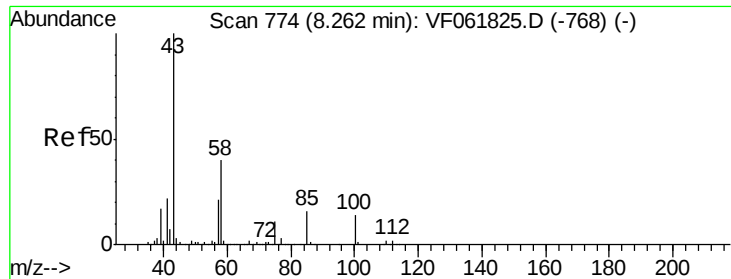
100 66.2 56.0 84.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.355 ug/l

RT: 8.20 min Scan# 768

Delta R.T. -0.06 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Instrument :

MSVOA_F

ClientSampleId :

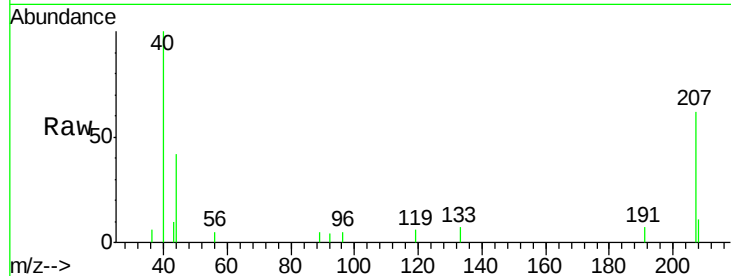
TP-14

Tot Ion: 43 Resp: 293

Ion Ratio Lower Upper

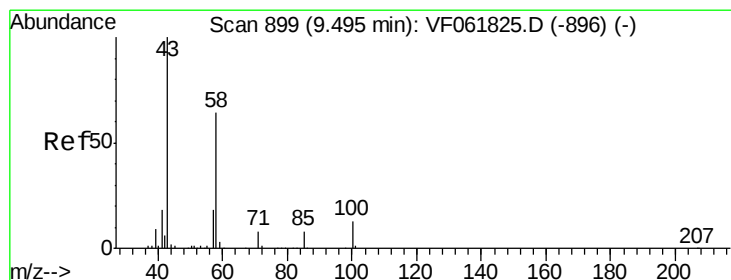
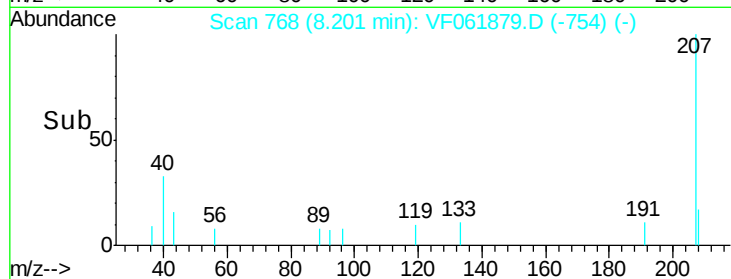
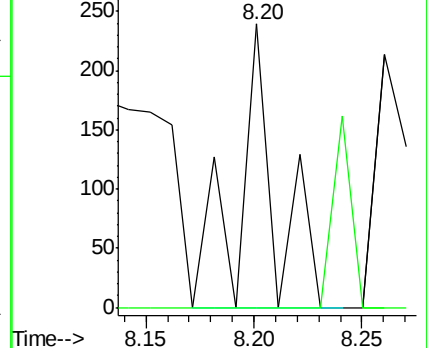
43 100

58 0.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 1.417 ug/l

RT: 9.47 min Scan# 897

Delta R.T. -0.02 min

Lab File: VF061879.D

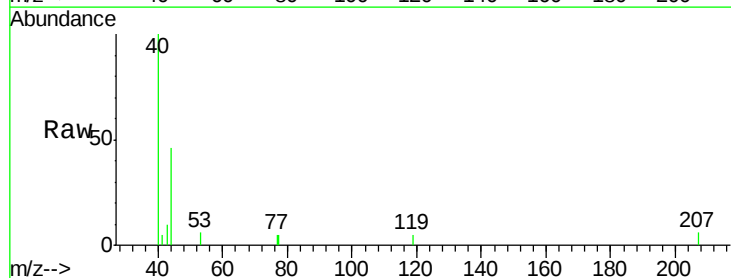
Acq: 8 Mar 2019 23:06

Tgt Ion: 43 Resp: 221

Ion Ratio Lower Upper

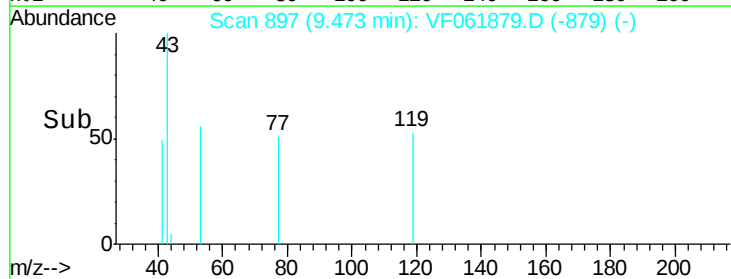
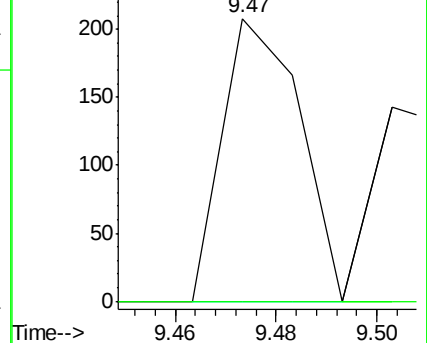
43 100

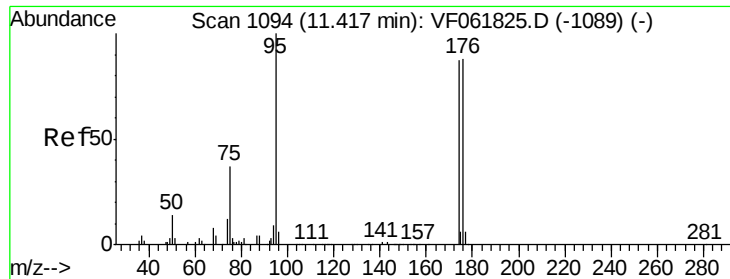
58 0.0 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 36.332 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Instrument :

MSVOA_F

ClientSampleId :

TP-14

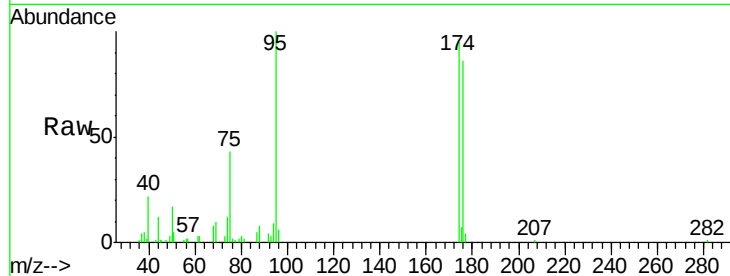
Tot Ion: 95 Resp: 18901

Ion Ratio Lower Upper

95 100

174 95.0 0.0 174.0

176 86.2 0.0 175.2

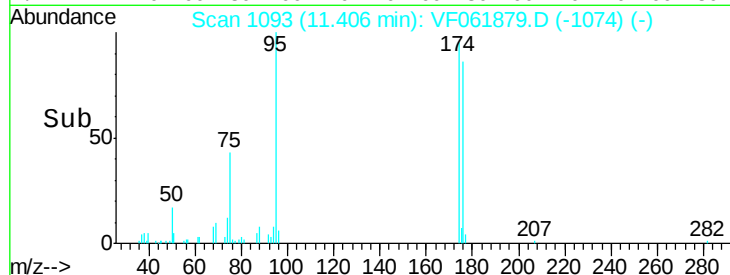


Abundance Ion 95.00 (94.70 to 95.70): VF061825.D (-1089) (-)

Ion 174.00 (173.70 to 174.70): VF061825.D (-1089) (-)

Ion 176.00 (175.70 to 176.70): VF061825.D (-1089) (-)

Time-->

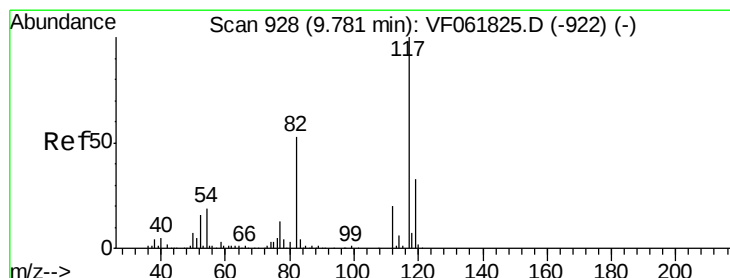


Abundance Ion 95.00 (94.70 to 95.70): VF061879.D (-1074) (-)

Ion 174.00 (173.70 to 174.70): VF061879.D (-1074) (-)

Ion 176.00 (175.70 to 176.70): VF061879.D (-1074) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.02 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

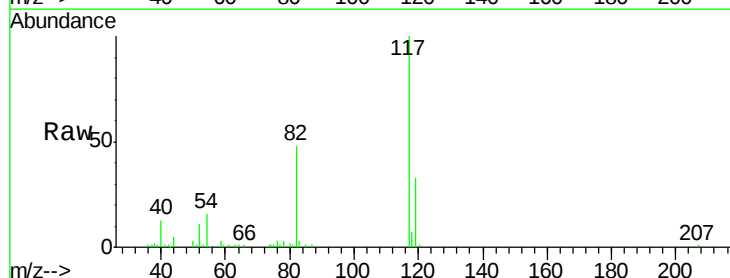
Tgt Ion: 117 Resp: 45611

Ion Ratio Lower Upper

117 100

82 48.1 42.6 63.8

119 33.1 26.0 39.0

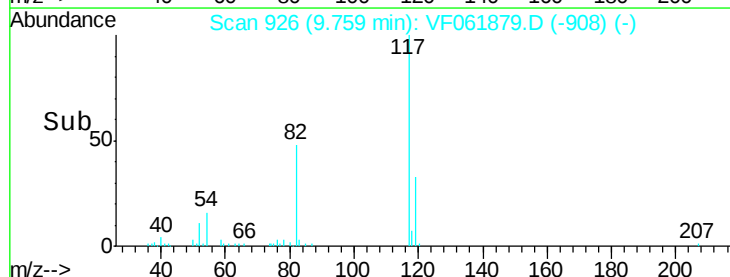


Abundance Ion 117.00 (116.70 to 117.70): VF061825.D (-922) (-)

Ion 82.00 (81.70 to 82.70): VF061825.D (-922) (-)

Ion 119.00 (118.70 to 119.70): VF061825.D (-922) (-)

Time-->

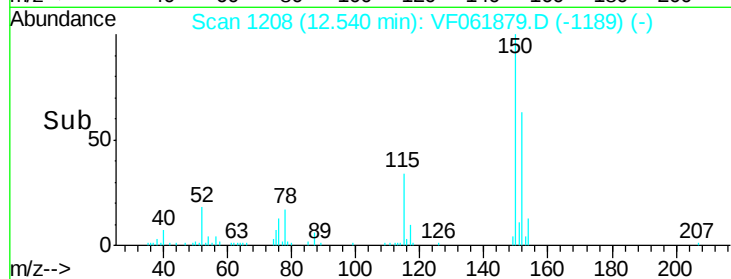
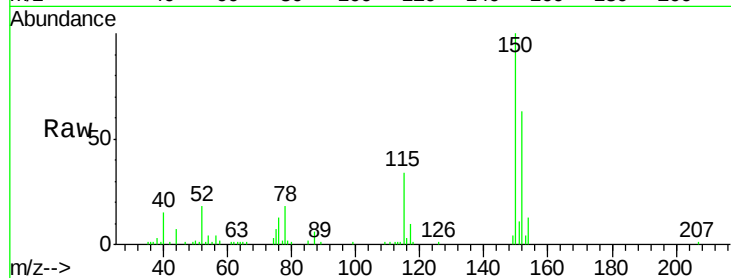
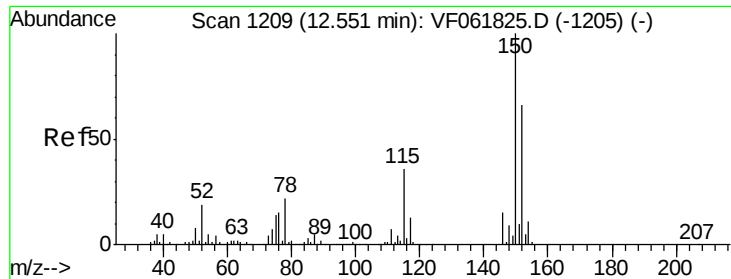


Abundance Ion 117.00 (116.70 to 117.70): VF061879.D (-908) (-)

Ion 82.00 (81.70 to 82.70): VF061879.D (-908) (-)

Ion 119.00 (118.70 to 119.70): VF061879.D (-908) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061879.D

Acq: 8 Mar 2019 23:06

Instrument :

MSVOA_F

ClientSampleId :

TP-14

Tot Ion:152 Resp: 20954

Ion Ratio Lower Upper

152 100

115 54.4 27.7 83.1

150 158.0 0.0 304.2

