

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022219\
 Data File : VF061714.D
 Acq On : 22 Feb 2019 17:57
 Operator : VA/AP
 Sample : K1586-03RE
 Misc : 5.80µ/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 M-1RE

Quant Time: Feb 23 01:46:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

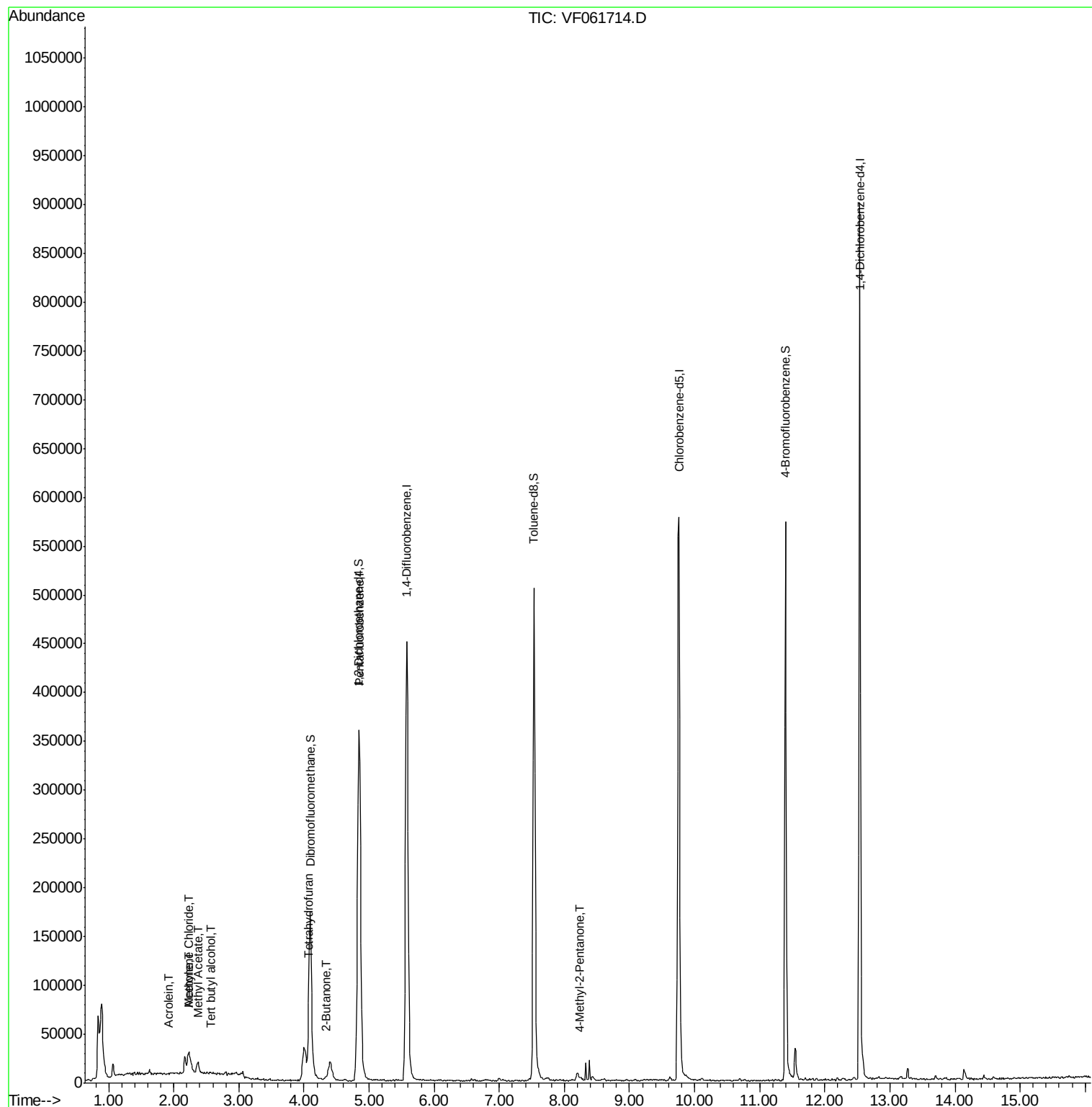
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	369362	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.58	114	573479	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.76	117	483459	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	277880	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	119637	44.17	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	88.34%	
35) Dibromofluoromethane	4.10	113	173197	40.67	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	81.34%	
50) Toluene-d8	7.53	98	467510	38.19	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	76.38%	
62) 4-Bromofluorobenzene	11.40	95	209919	42.38	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	84.76%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.57	59	604	3.853	ug/l #	31
13) Acrolein	1.92	56	736	3.736	ug/l	86
16) Acetone	2.22	43	10499	18.066	ug/l #	77
18) Methyl Acetate	2.36	43	8797	6.720	ug/l #	59
20) Methylene Chloride	2.23	84	14848	2.367	ug/l	96
25) 2-Butanone	4.34	43	2395	1.887	ug/l	93
29) Tetrahydrofuran	4.06	42	1640	2.843	ug/l #	50
51) 4-Methyl-2-Pentanone	8.24	43	2944	1.319	ug/l	88

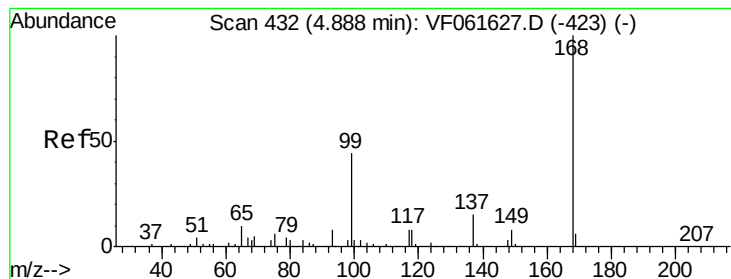
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.03 min

Lab File: VF061714.D

Acq: 22 Feb 2019 17:57

Instrument :

MSVOA_F

ClientSampleId :

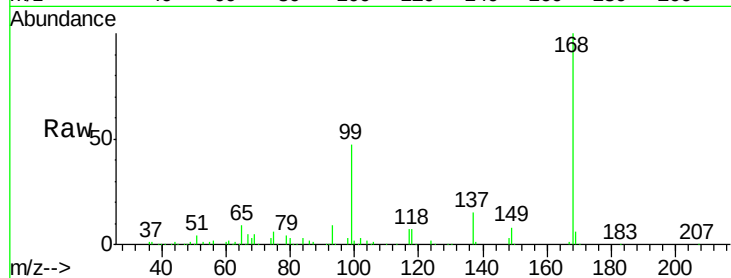
M-1RE

Tot Ion:168 Resp: 369362

Ion Ratio Lower Upper

168 100

99 47.4 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

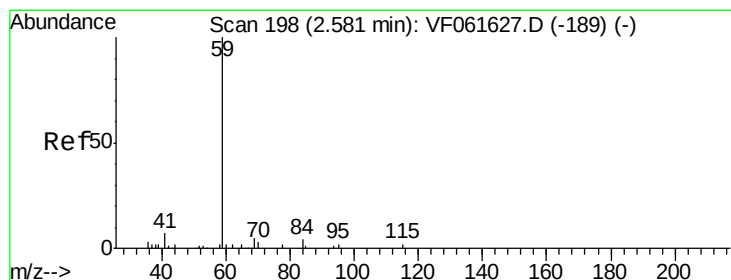
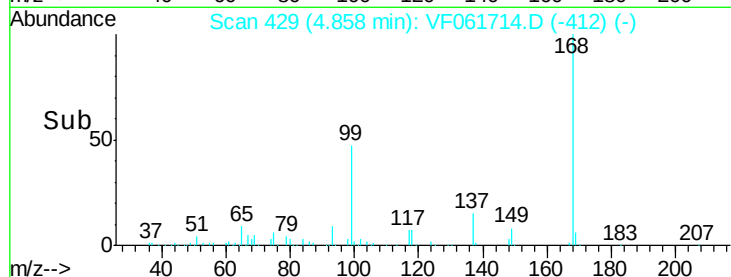
4.86

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.853 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF061714.D

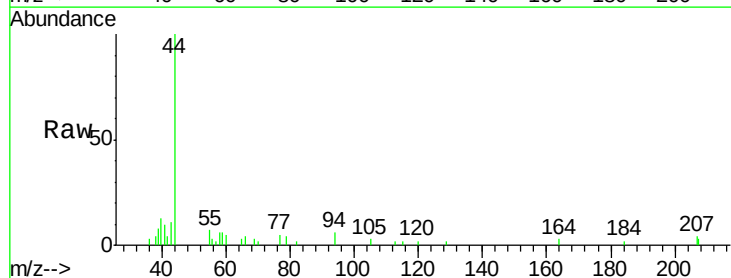
Acq: 22 Feb 2019 17:57

Tgt Ion: 59 Resp: 604

Ion Ratio Lower Upper

59 100

57 44.4 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

300

250

200

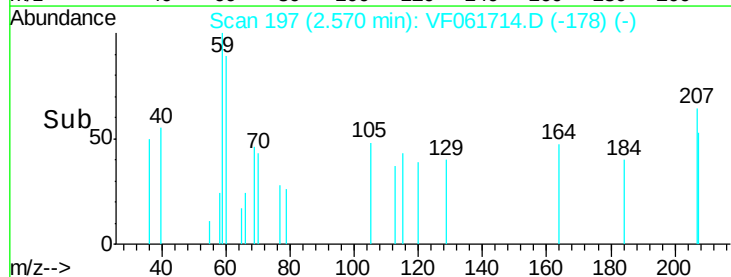
150

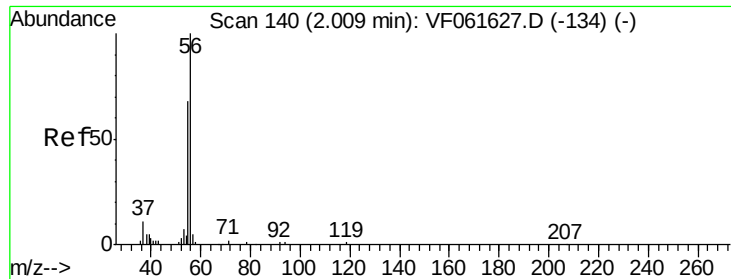
100

50

0

Time-->





#13

Acrolein

Concen: 3.736 ug/l

RT: 1.92 min Scan# 131

Delta R.T. -0.09 min

Lab File: VF061714.D

Acq: 22 Feb 2019 17:57

Instrument :

MSVOA_F

ClientSampleId :

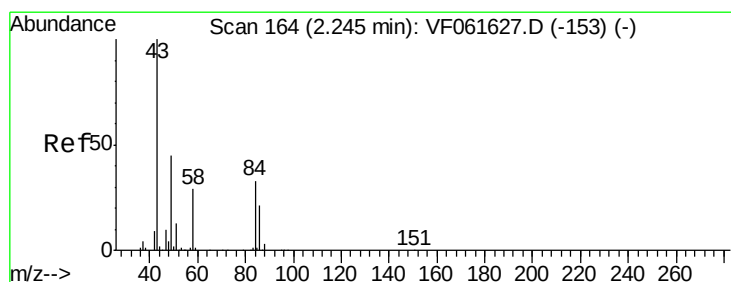
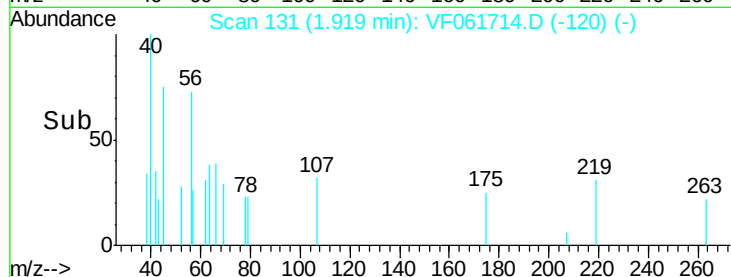
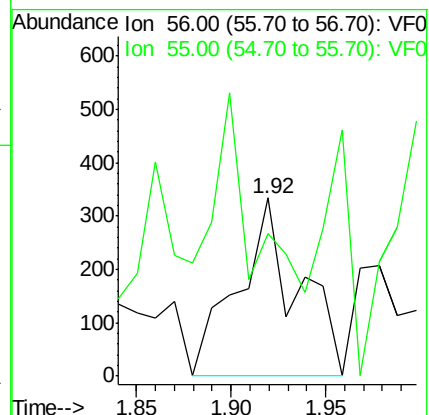
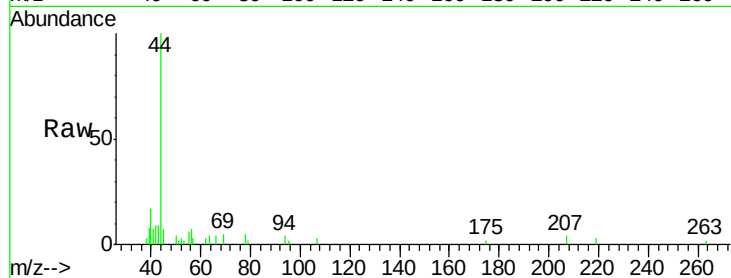
M-1RE

Tot Ion: 56 Resp: 736

Ion Ratio Lower Upper

56 100

55 80.2 55.0 82.6



#16

Acetone

Concen: 18.066 ug/l

RT: 2.22 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061714.D

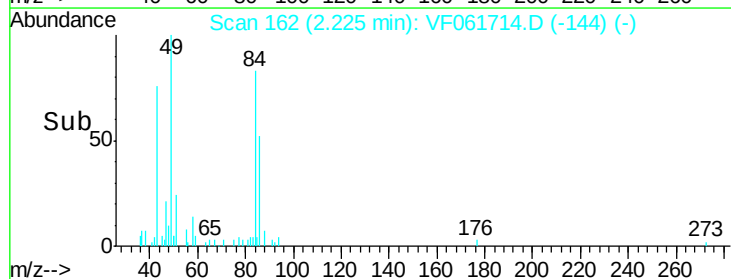
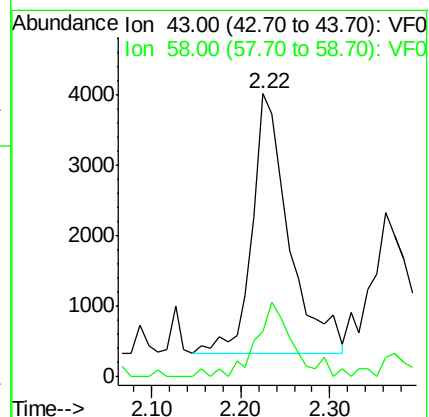
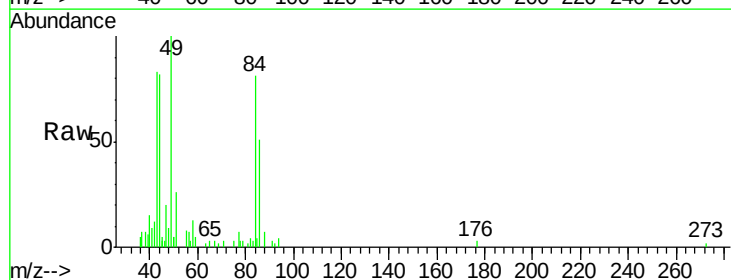
Acq: 22 Feb 2019 17:57

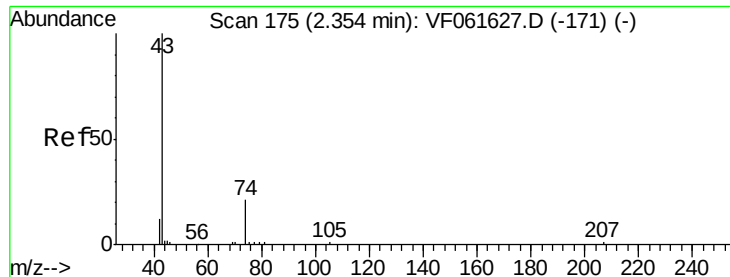
Tgt Ion: 43 Resp: 10499

Ion Ratio Lower Upper

43 100

58 16.1 22.9 34.3#

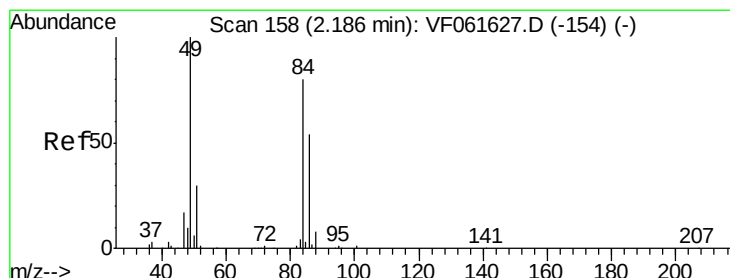
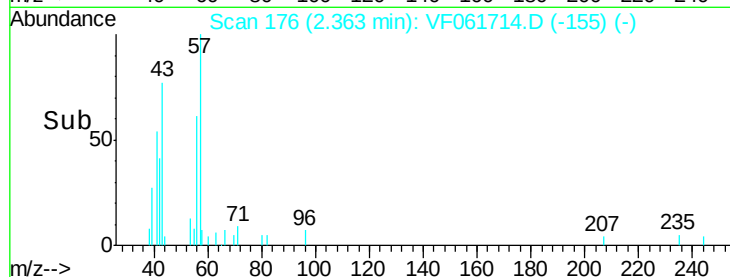
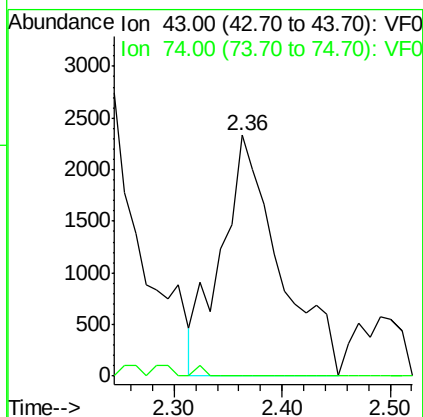
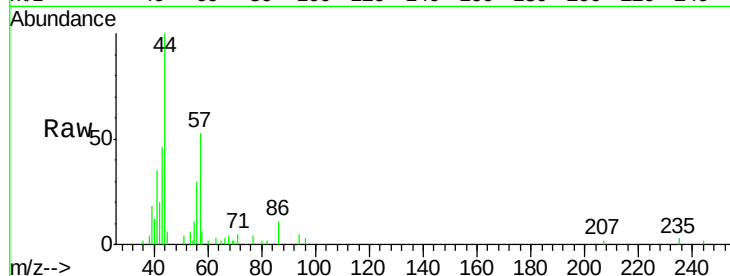




#18
Methyl Acetate
Concen: 6.720 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF061714.D
Acq: 22 Feb 2019 17:57

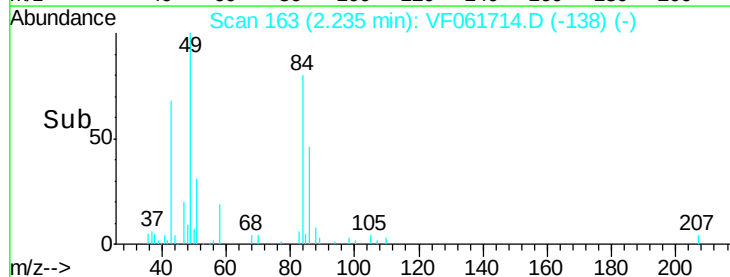
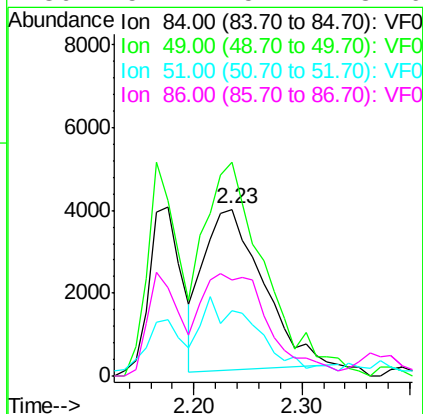
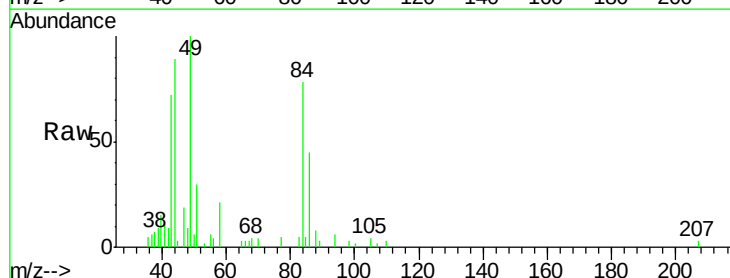
Instrument :
MSVOA_F
ClientSampleId :
M-1RE

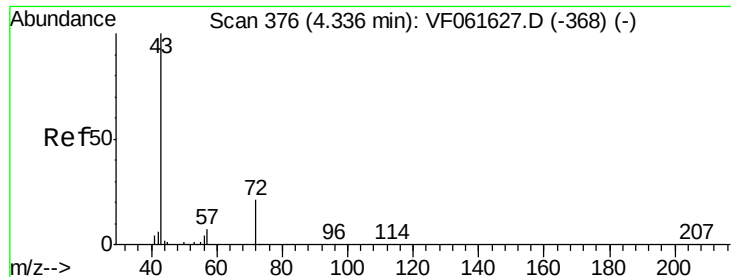
Tot Ion: 43 Resp: 8797
Ion Ratio Lower Upper
43 100
74 0.0 14.6 21.8#



#20
Methylene Chloride
Concen: 2.367 ug/l
RT: 2.23 min Scan# 163
Delta R.T. 0.05 min
Lab File: VF061714.D
Acq: 22 Feb 2019 17:57

Tgt Ion: 84 Resp: 14848
Ion Ratio Lower Upper
84 100
49 127.8 101.8 152.8
51 38.9 31.1 46.7
86 57.4 54.4 81.6





#25

2-Butanone

Concen: 1.887 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF061714.D

Acq: 22 Feb 2019 17:57

Instrument :

MSVOA_F

ClientSampleId :

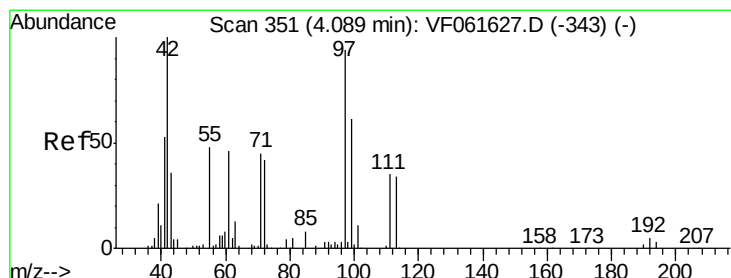
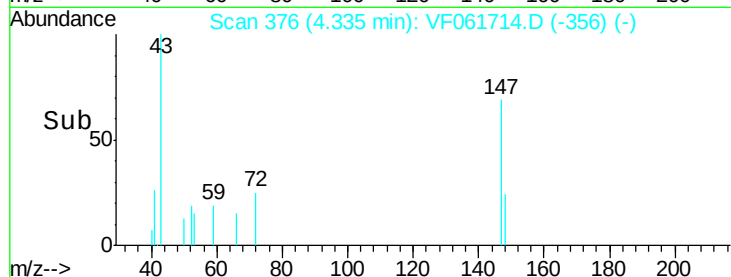
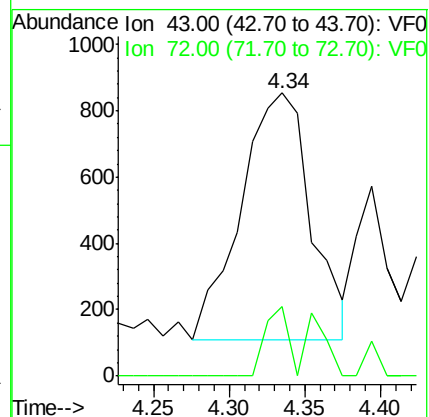
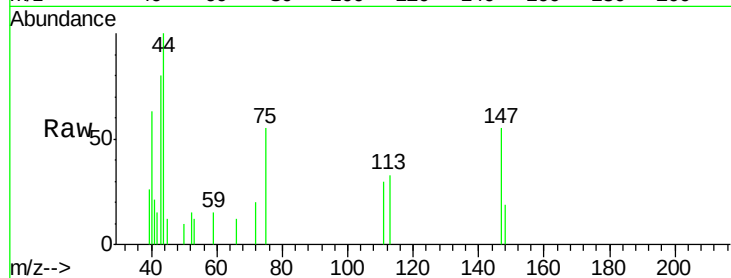
M-1RE

Tot Ion: 43 Resp: 2395

Ion Ratio Lower Upper

43 100

72 24.6 17.1 25.7



#29

Tetrahydrofuran

Concen: 2.843 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.03 min

Lab File: VF061714.D

Acq: 22 Feb 2019 17:57

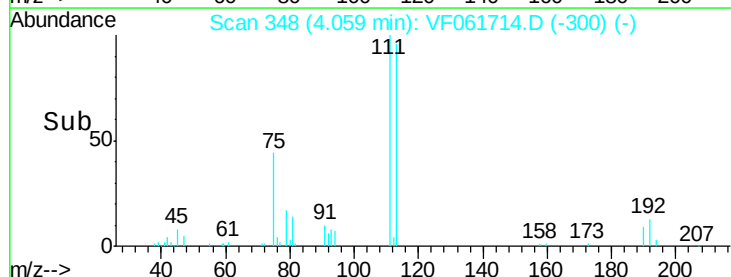
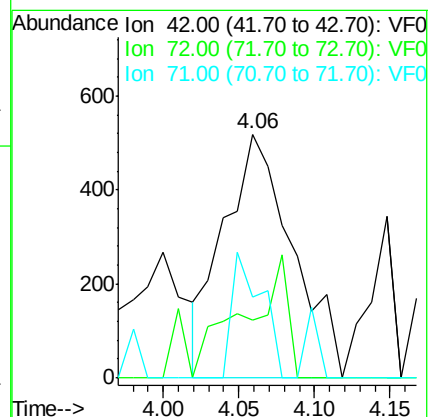
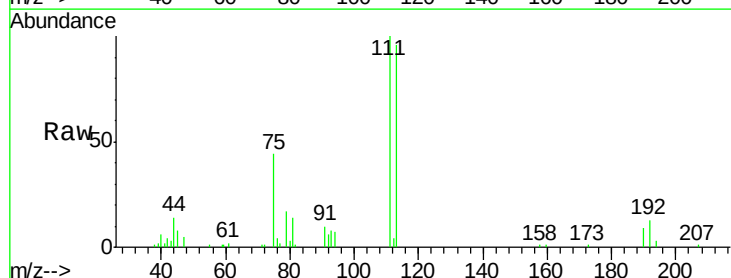
Tgt Ion: 42 Resp: 1640

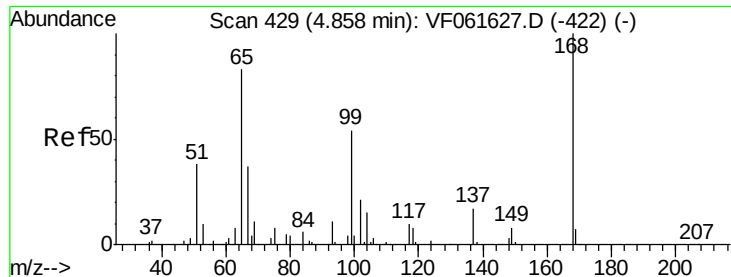
Ion Ratio Lower Upper

42 100

72 0.0 35.2 52.8#

71 22.5 32.9 49.3#

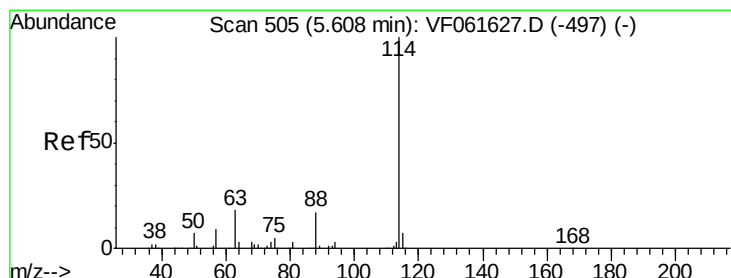
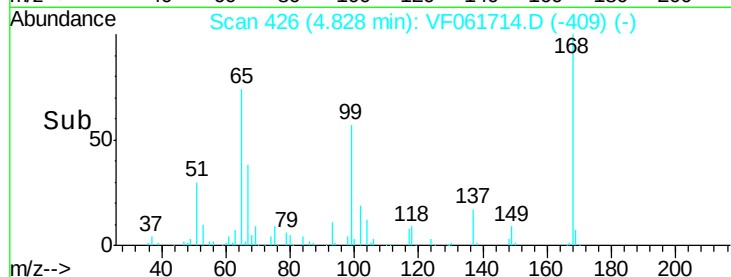
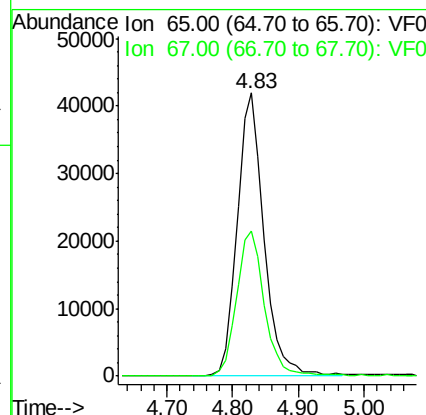
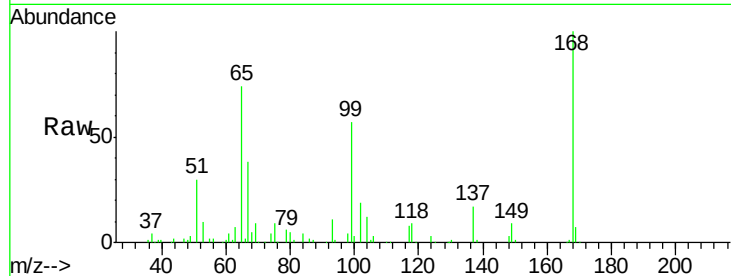




#33
 1,2-Dichloroethane-d4
 Concen: 44.170 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.03 min
 Lab File: VF061714.D
 Acq: 22 Feb 2019 17:57

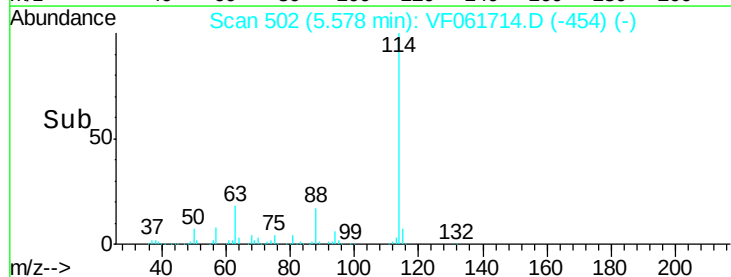
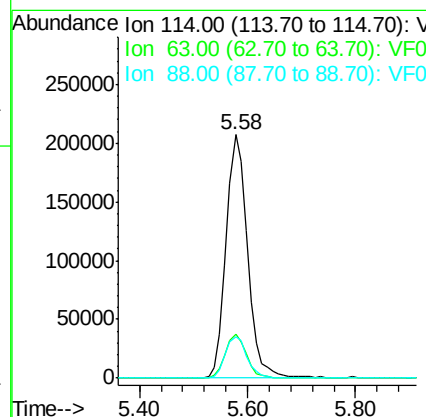
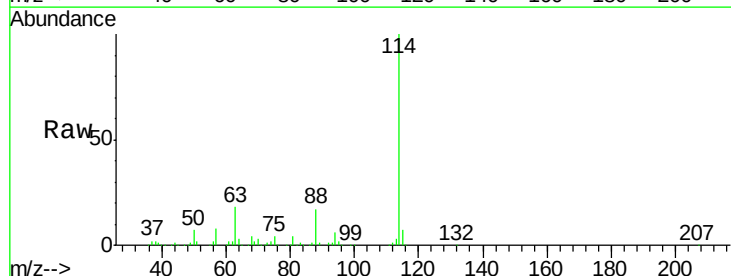
Instrument :
 MSVOA_F
 ClientSampleId :
 M-1RE

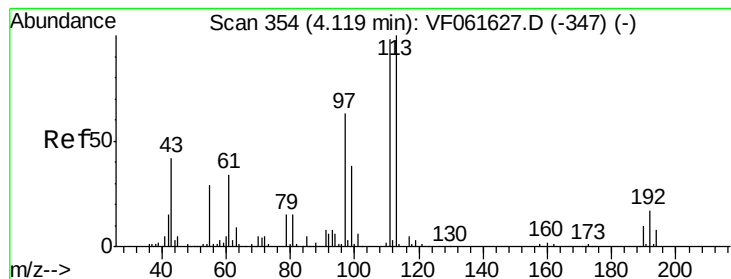
Tot Ion: 65 Resp: 119637
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.03 min
 Lab File: VF061714.D
 Acq: 22 Feb 2019 17:57

Tgt Ion: 114 Resp: 573479
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 36.6
 88 17.2 0.0 34.4





#35

Dibromofluoromethane

Concen: 40.669 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.02 min

Lab File: VF061714.D

Acq: 22 Feb 2019 17:57

Instrument :

MSVOA_F

ClientSampleId :

M-1RE

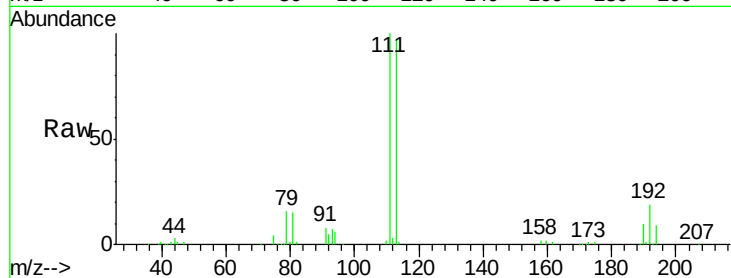
Tot Ion:113 Resp: 173197

Ion Ratio Lower Upper

113 100

111 102.8 78.8 118.2

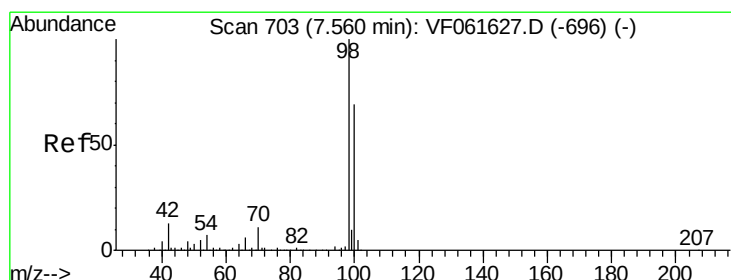
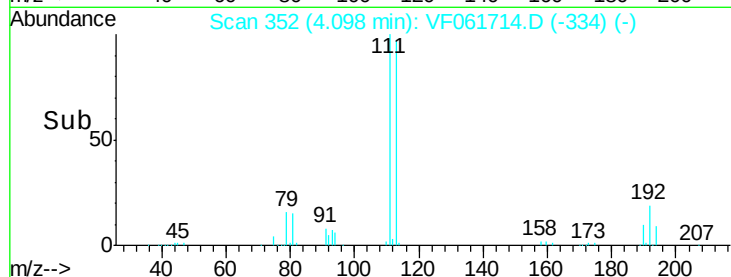
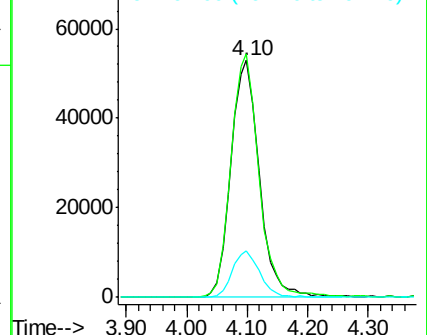
192 19.5 13.4 20.0



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



#50

Toluene-d8

Concen: 38.187 ug/l

RT: 7.53 min Scan# 700

Delta R.T. -0.03 min

Lab File: VF061714.D

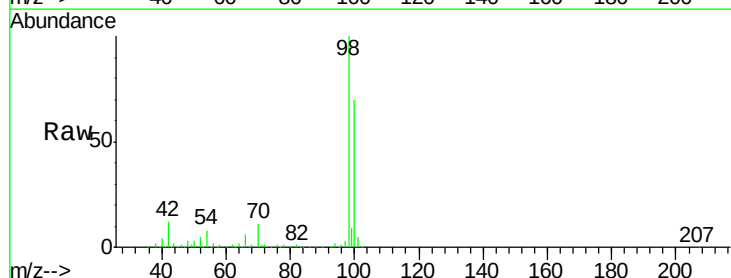
Acq: 22 Feb 2019 17:57

Tgt Ion: 98 Resp: 467510

Ion Ratio Lower Upper

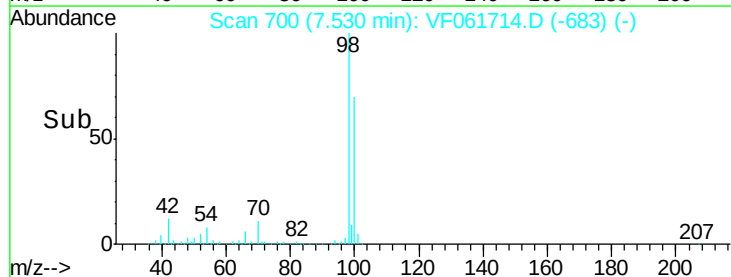
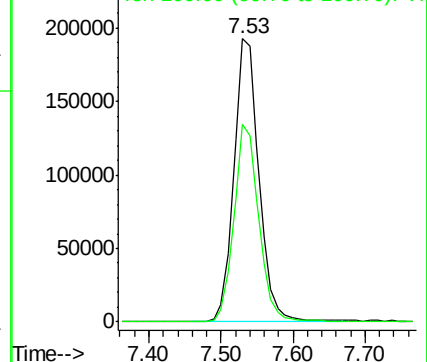
98 100

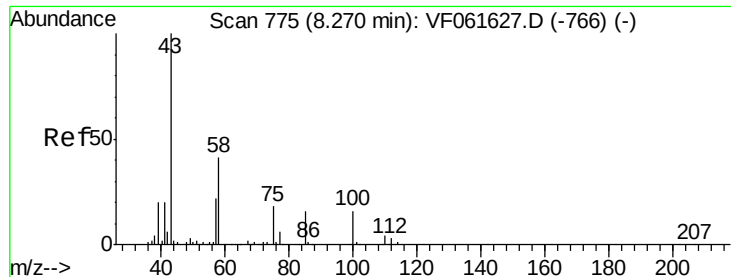
100 69.7 55.4 83.2



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: 1.319 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.03 min

Lab File: VF061714.D

Acq: 22 Feb 2019 17:57

Instrument :

MSVOA_F

ClientSampleId :

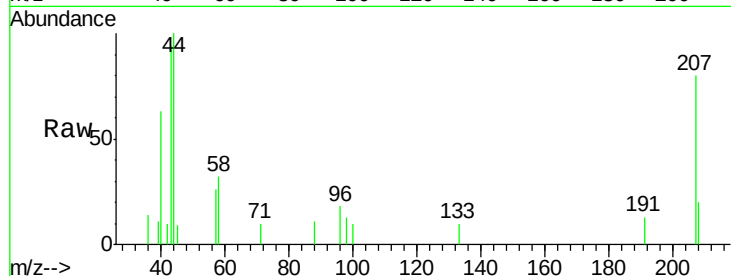
M-1RE

Tot Ion: 43 Resp: 2944

Ion Ratio Lower Upper

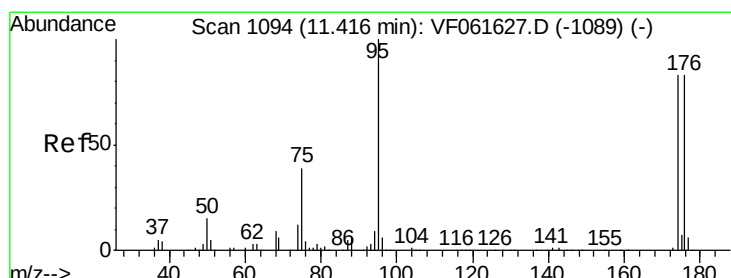
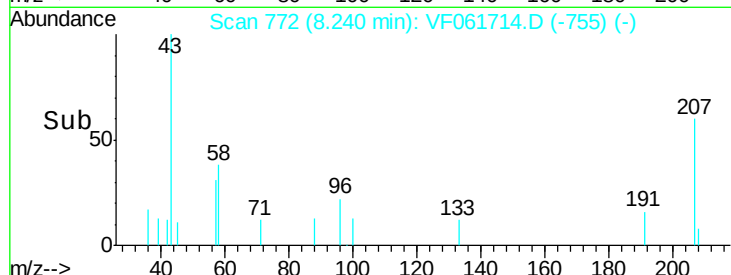
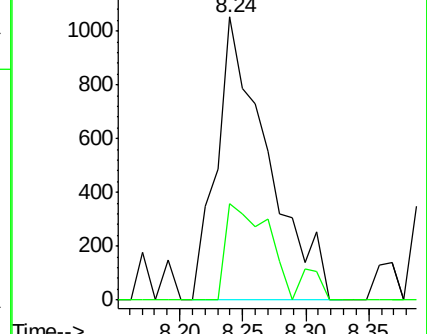
43 100

58 33.9 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#62

4-Bromofluorobenzene

Concen: 42.377 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.02 min

Lab File: VF061714.D

Acq: 22 Feb 2019 17:57

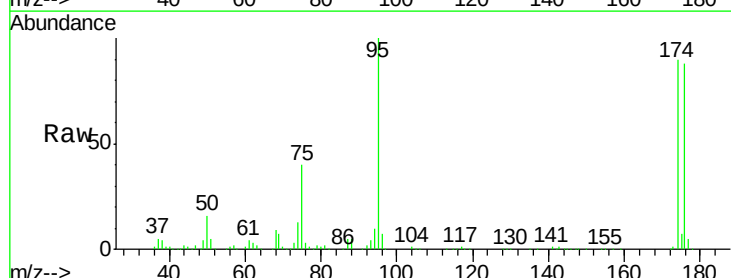
Tgt Ion: 95 Resp: 209919

Ion Ratio Lower Upper

95 100

174 90.3 0.0 165.8

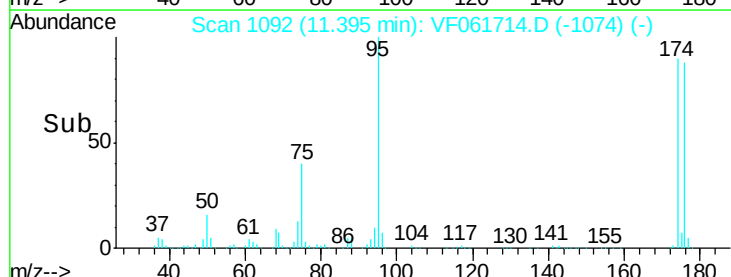
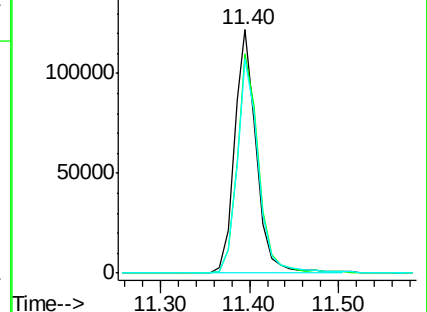
176 88.1 0.0 167.0

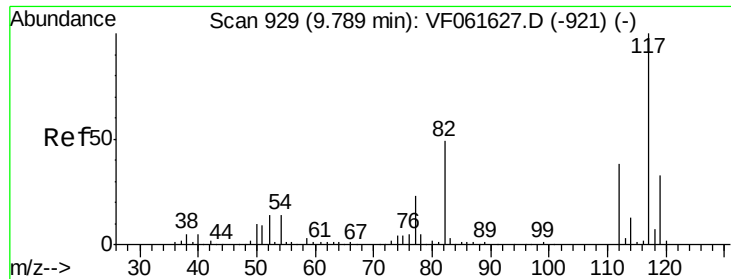


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

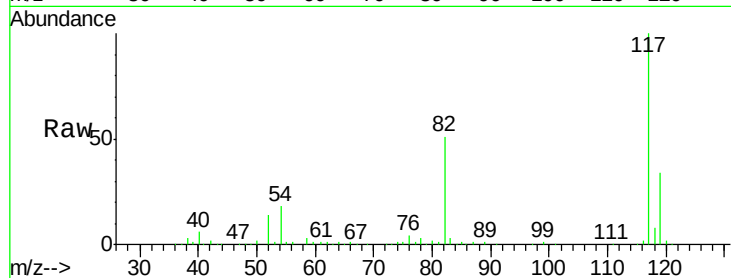




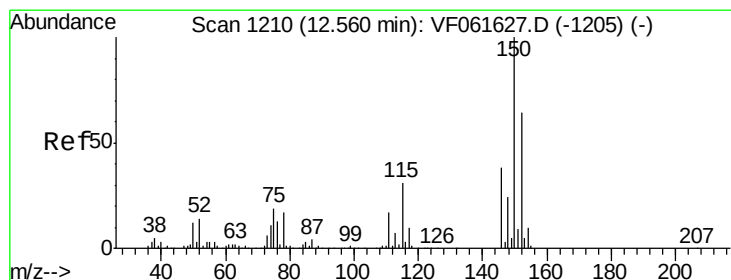
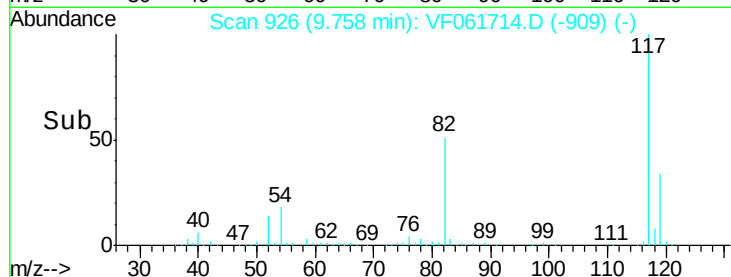
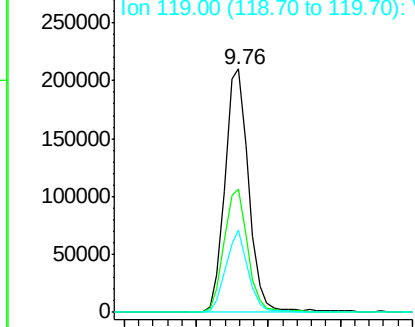
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.03 min
Lab File: VF061714.D
Acq: 22 Feb 2019 17:57

Instrument :
MSVOA_F
ClientSampled :
M-1RE

Tot Ion:117 Resp: 483459
Ion Ratio Lower Upper
117 100
82 50.6 39.3 58.9
119 34.1 26.6 40.0

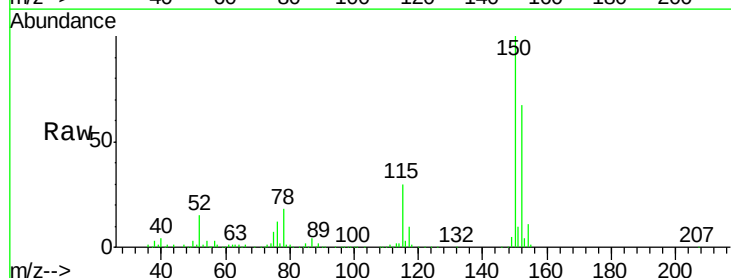


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1208
Delta R.T. -0.02 min
Lab File: VF061714.D
Acq: 22 Feb 2019 17:57

Tgt Ion:152 Resp: 277880
Ion Ratio Lower Upper
152 100
115 44.5 24.3 72.8
150 149.4 0.0 312.0



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

