

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022719\
 Data File : VF061778.D
 Acq On : 27 Feb 2019 20:53
 Operator : VA/AP
 Sample : K1652-10
 Misc : 5.08g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 28 01:01:45 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	308070	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	492209	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	449697	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	229109	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	116564	51.60	ug/l	-0.02
Spiked Amount			Recovery	=	103.20%	
35) Dibromofluoromethane	4.10	113	172777	47.27	ug/l	-0.02
Spiked Amount			Recovery	=	94.54%	
50) Toluene-d8	7.55	98	436320	41.52	ug/l	-0.01
Spiked Amount			Recovery	=	83.04%	
62) 4-Bromofluorobenzene	11.41	95	193714	45.56	ug/l	-0.01
Spiked Amount			Recovery	=	91.12%	

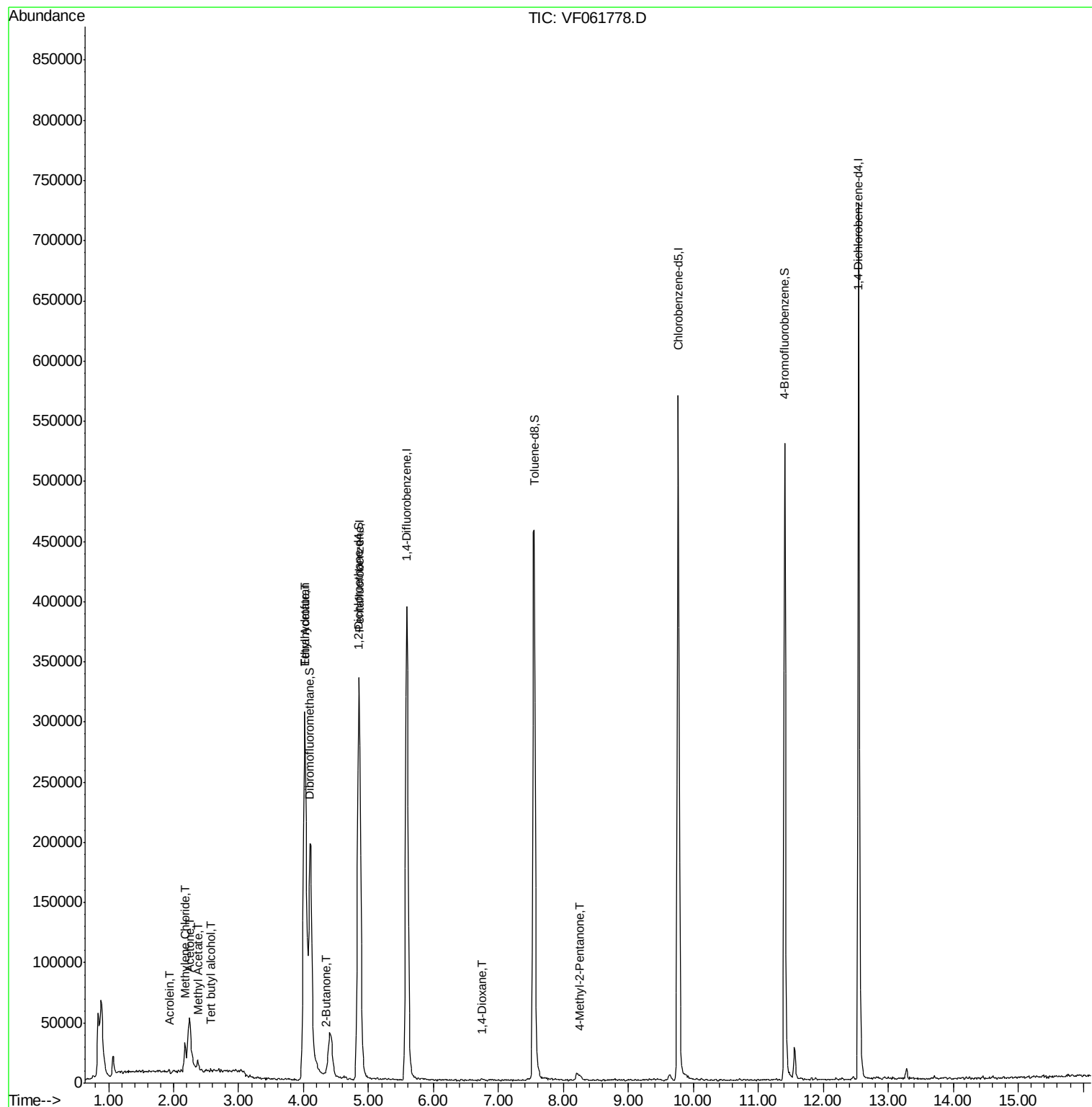
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	1440	11.014	ug/l #	63
13) Acrolein	1.93	56	593	3.609	ug/l	87
16) Acetone	2.24	43	23502	48.487	ug/l #	88
18) Methyl Acetate	2.36	43	4907	4.494	ug/l #	75
20) Methylene Chloride	2.18	84	11666	2.076	ug/l	87
25) 2-Butanone	4.34	43	2016	1.904	ug/l	100
29) Tetrahydrofuran	4.01	42	4259	8.851	ug/l #	65
37) Ethyl Acetate	4.01	43	20573	9.084	ug/l #	62
49) 1,4-Dioxane	6.73	88	128	8.440	ug/l #	20
51) 4-Methyl-2-Pentanone	8.26	43	4105	2.143	ug/l	93

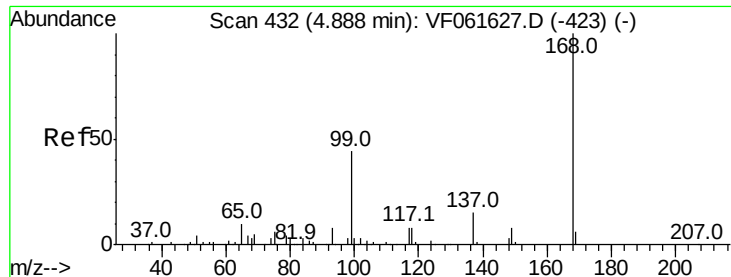
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF061778.D

Acq: 27 Feb 2019 20:53

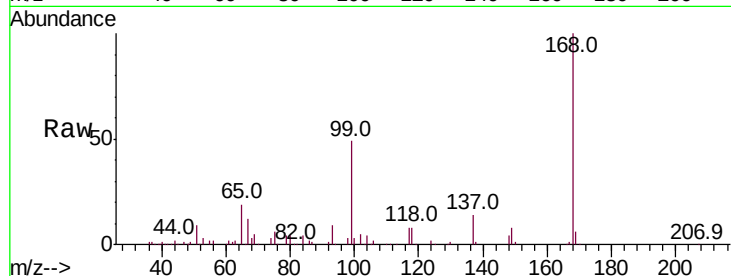
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 308070

Ion Ratio Lower Upper

168 100

99 49.1 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

120000

100000

80000

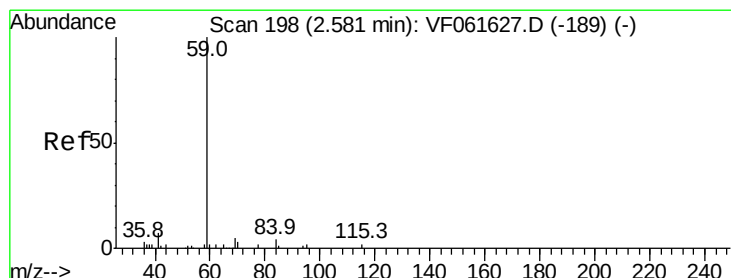
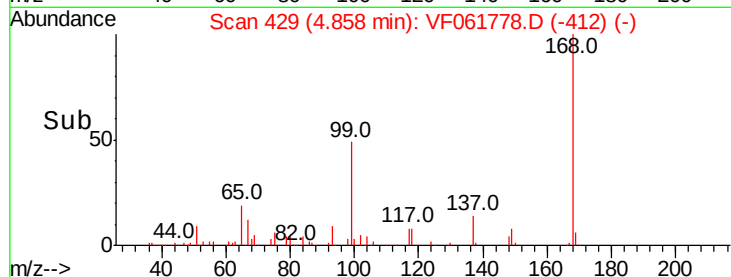
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 11.014 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF061778.D

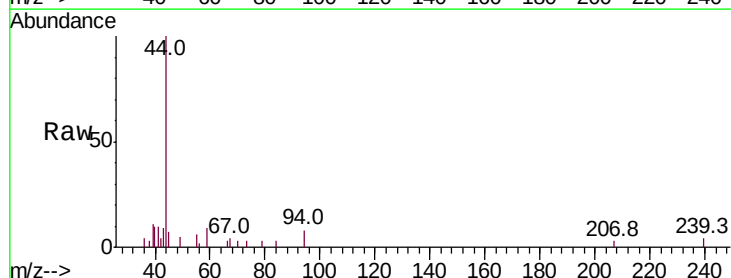
Acq: 27 Feb 2019 20:53

Tgt Ion: 59 Resp: 1440

Ion Ratio Lower Upper

59 100

57 0.0 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

500

400

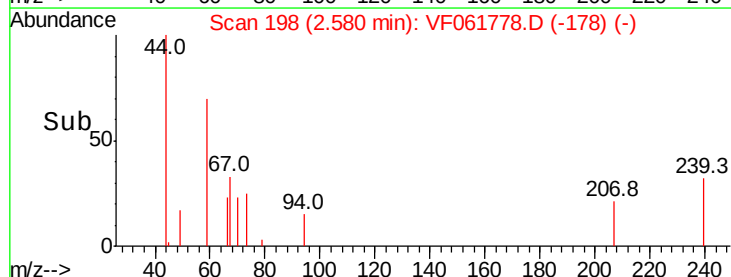
300

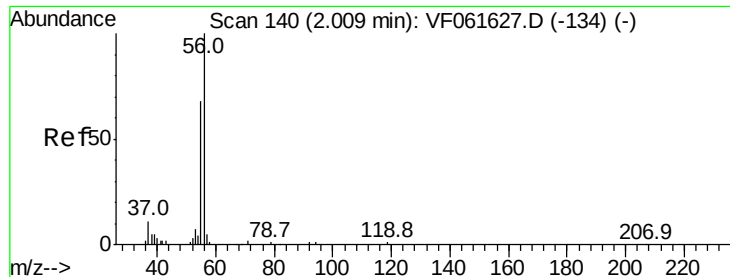
200

100

0

Time-->





#13

Acrolein

Concen: 3.609 ug/l

RT: 1.93 min Scan# 132

Delta R.T. -0.08 min

Lab File: VF061778.D

Acq: 27 Feb 2019 20:53

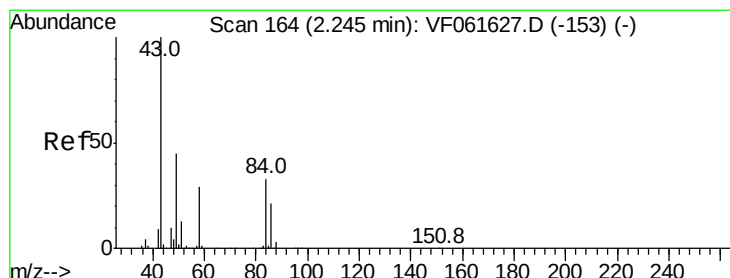
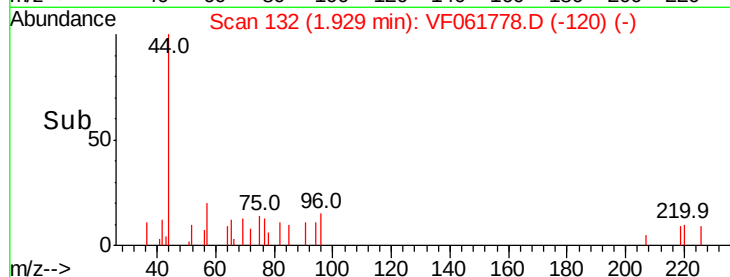
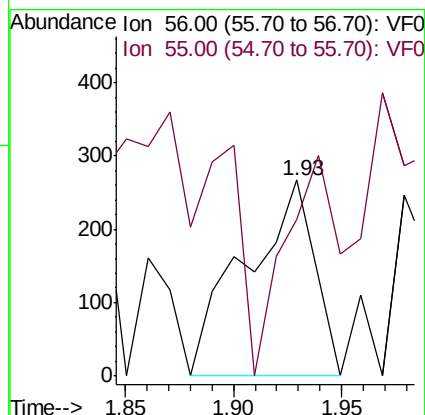
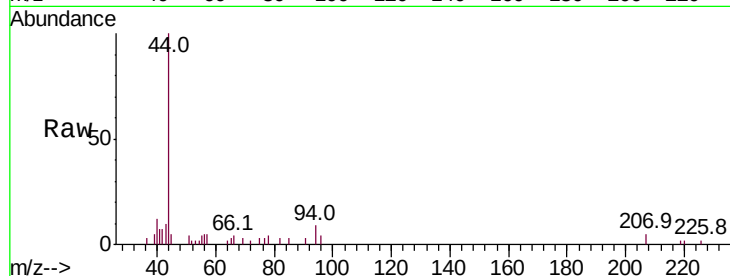
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 593

Ion Ratio Lower Upper

56 100

55 79.8 55.0 82.6



#16

Acetone

Concen: 48.487 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF061778.D

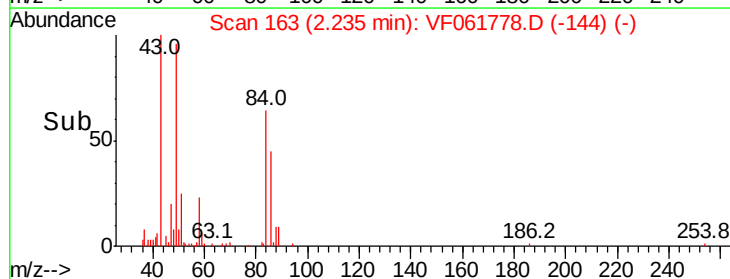
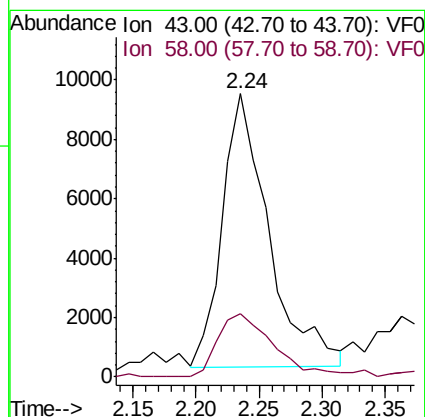
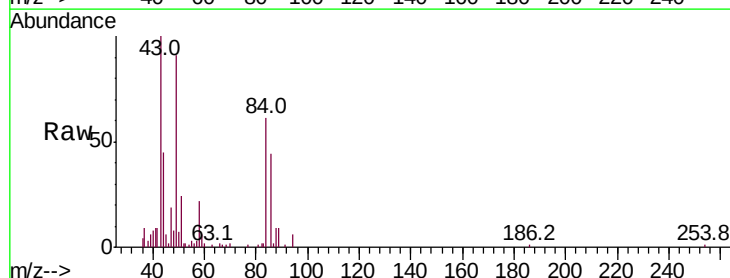
Acq: 27 Feb 2019 20:53

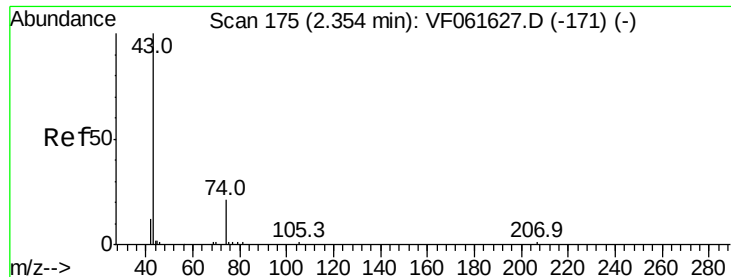
Tgt Ion: 43 Resp: 23502

Ion Ratio Lower Upper

43 100

58 22.4 22.9 34.3#

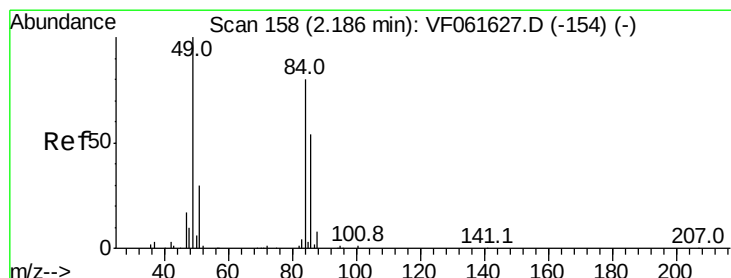
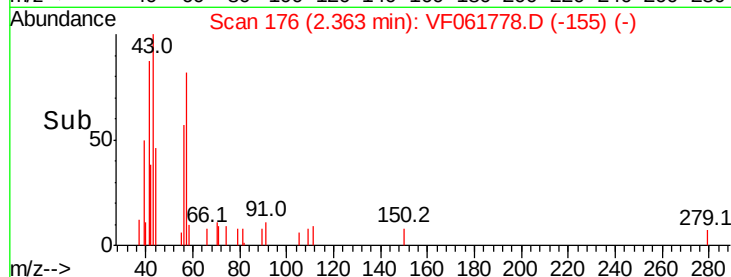
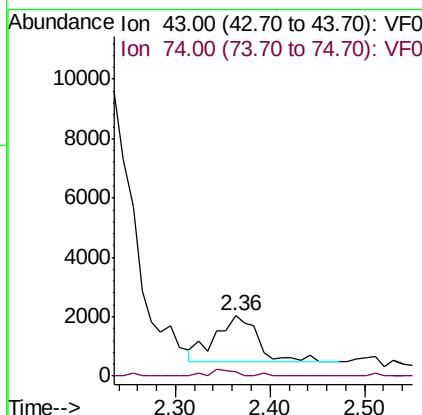
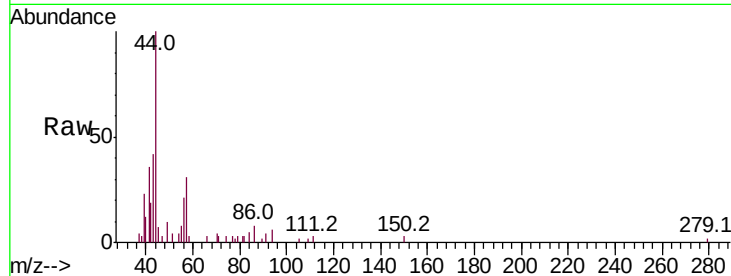




#18
Methvl Acetate
Concen: 4.494 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF061778.D
Acq: 27 Feb 2019 20:53

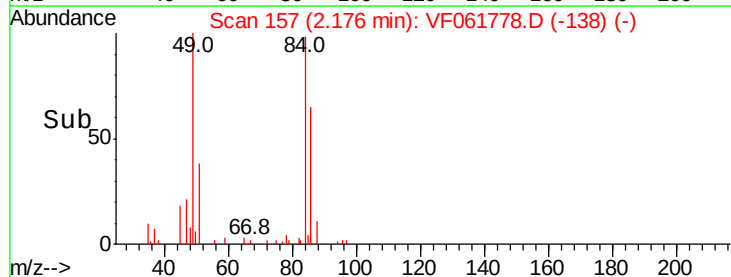
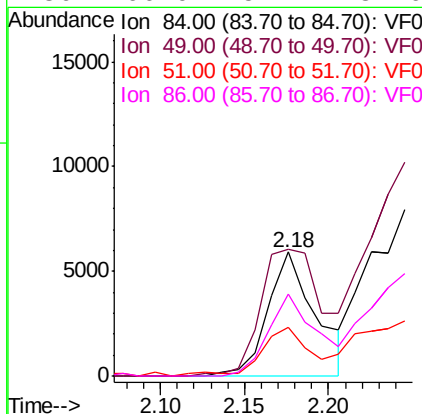
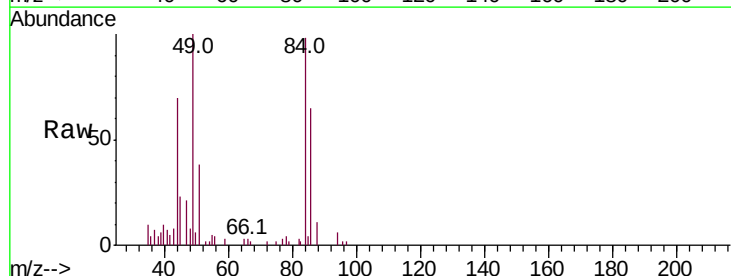
Instrument :
MSVOA_F
ClientSampleId :

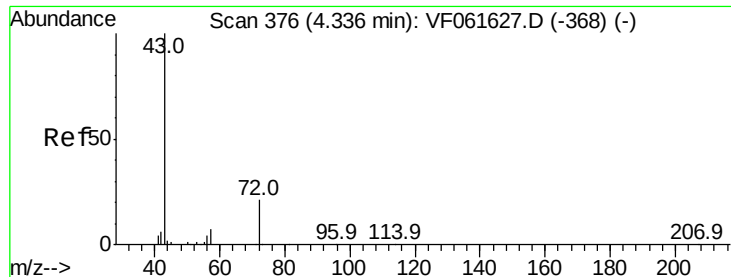
Tot Ion: 43 Resp: 4907
Ion Ratio Lower Upper
43 100
74 7.1 14.6 21.8#



#20
Methylene Chloride
Concen: 2.076 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061778.D
Acq: 27 Feb 2019 20:53

Tgt Ion: 84 Resp: 11666
Ion Ratio Lower Upper
84 100
49 102.3 101.8 152.8
51 39.1 31.1 46.7
86 66.0 54.4 81.6





#25

2-Butanone

Concen: 1.904 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF061778.D

Acq: 27 Feb 2019 20:53

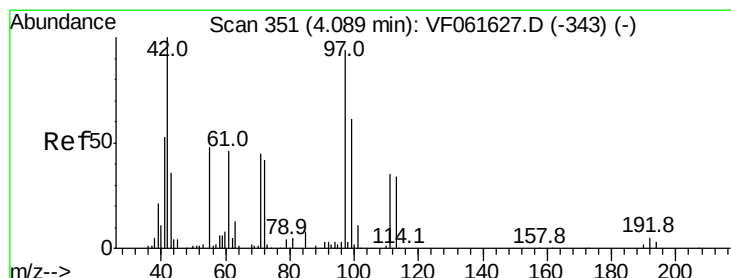
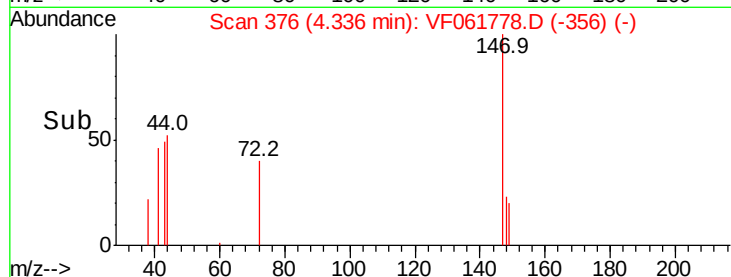
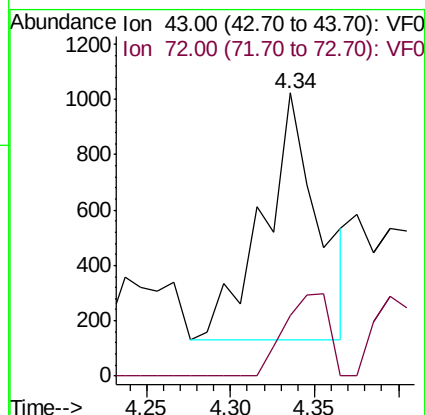
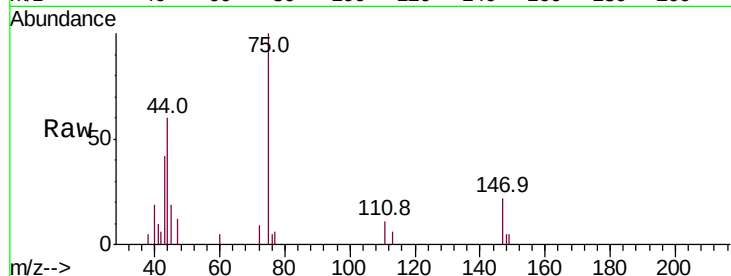
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 2016

Ion Ratio Lower Upper

43 100

72 21.6 17.1 25.7



#29

Tetrahydrofuran

Concen: 8.851 ug/l

RT: 4.01 min Scan# 343

Delta R.T. -0.08 min

Lab File: VF061778.D

Acq: 27 Feb 2019 20:53

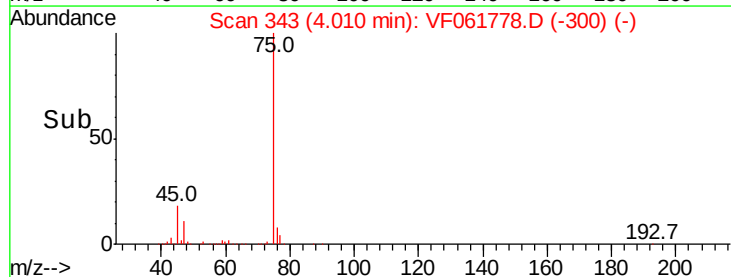
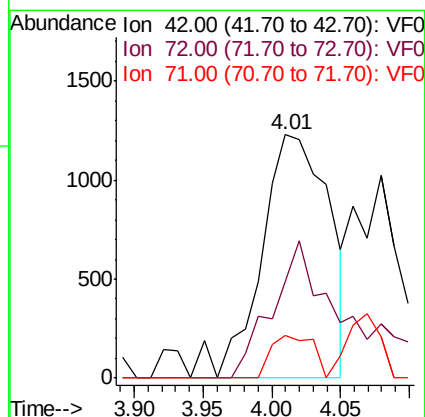
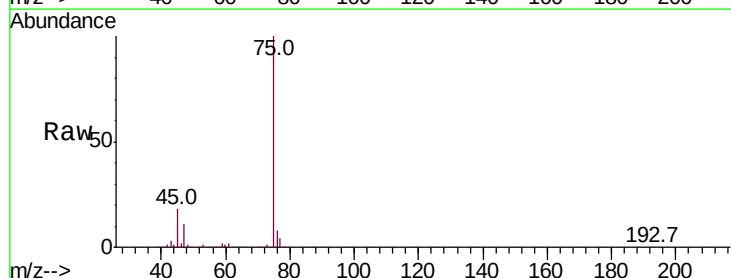
Tgt Ion: 42 Resp: 4259

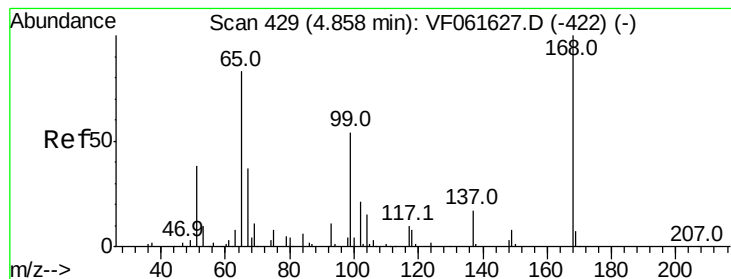
Ion Ratio Lower Upper

42 100

72 58.5 35.2 52.8#

71 10.6 32.9 49.3#





#33

1,2-Dichloroethane-d4

Concen: 51.597 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.02 min

Lab File: VF061778.D

Acq: 27 Feb 2019 20:53

Instrument :

MSVOA_F

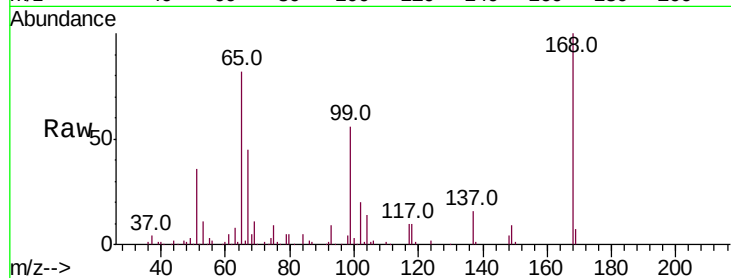
ClientSampled :

Tot Ion: 65 Resp: 116564

Ion Ratio Lower Upper

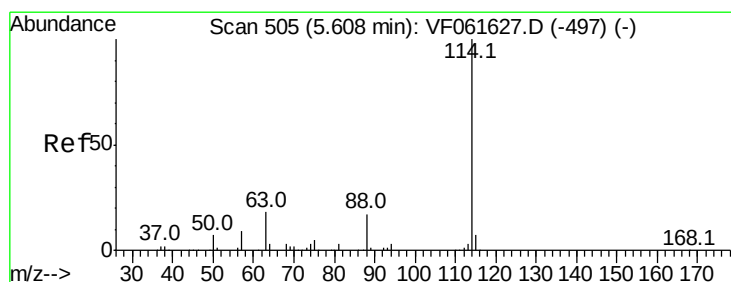
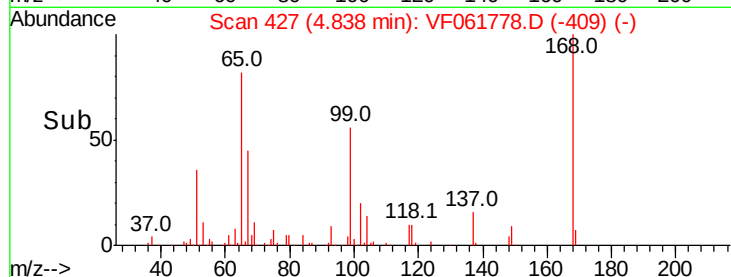
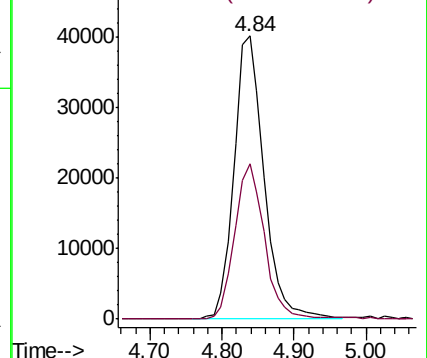
65 100

67 54.7 0.0 104.0



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: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061778.D

Acq: 27 Feb 2019 20:53

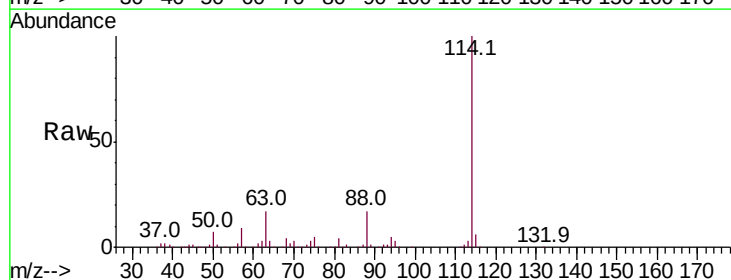
Tgt Ion: 114 Resp: 492209

Ion Ratio Lower Upper

114 100

63 16.8 0.0 36.6

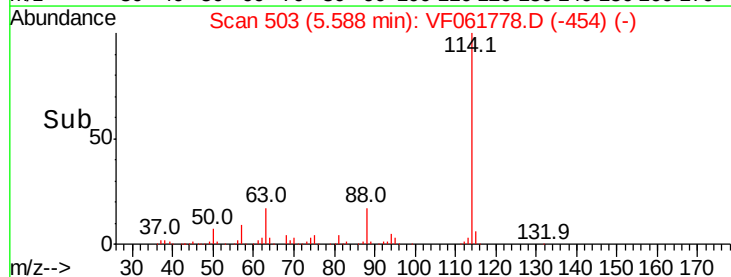
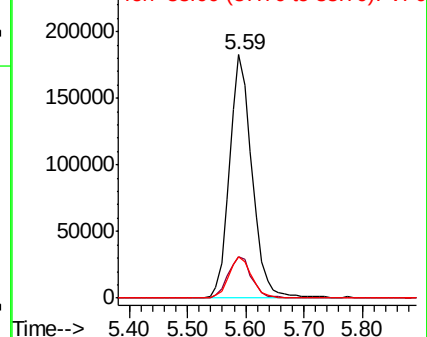
88 17.1 0.0 34.4

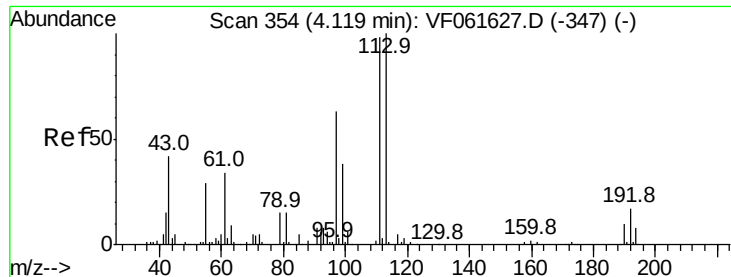


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

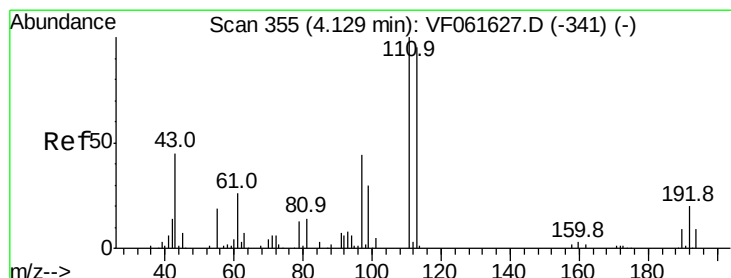
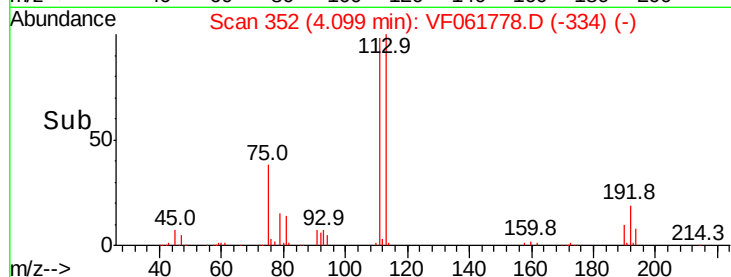
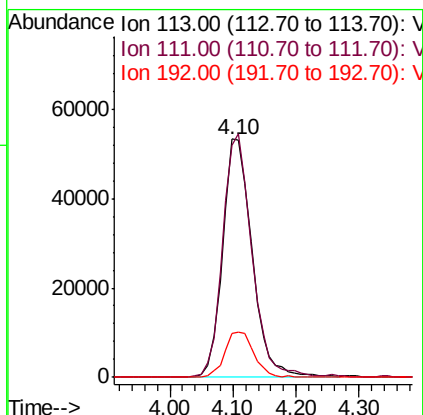
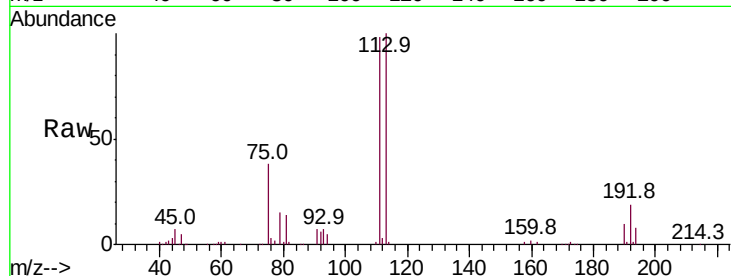




#35
 Dibromofluoromethane
 Concen: 47.269 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.02 min
 Lab File: VF061778.D
 Acq: 27 Feb 2019 20:53

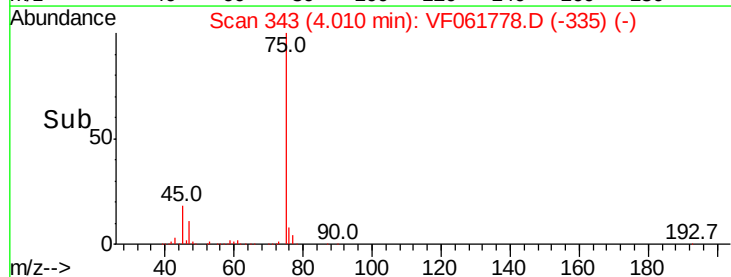
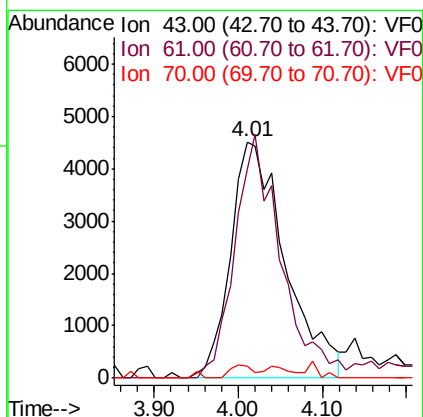
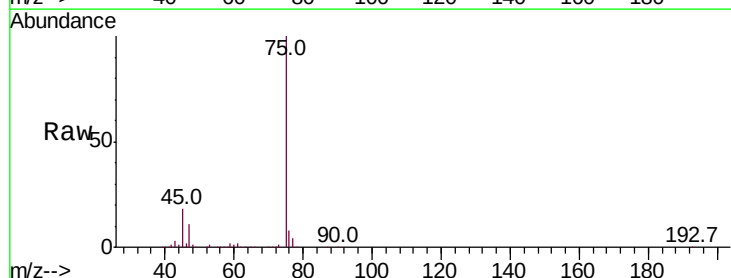
Instrument :
 MSVOA_F
 ClientSampleId :

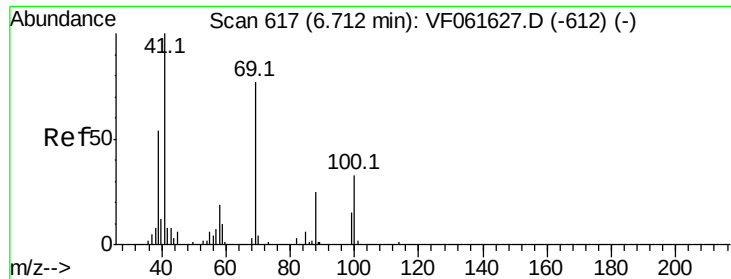
Tot Ion:113 Resp: 172777
 Ion Ratio Lower Upper
 113 100
 111 97.5 78.8 118.2
 192 18.7 13.4 20.0



#37
 Ethyl Acetate
 Concen: 9.084 ug/l
 RT: 4.01 min Scan# 343
 Delta R.T. -0.12 min
 Lab File: VF061778.D
 Acq: 27 Feb 2019 20:53

Tgt Ion: 43 Resp: 20573
 Ion Ratio Lower Upper
 43 100
 61 88.4 45.7 68.5#
 70 4.8 8.5 12.7#





#49

1,4-Dioxane

Concen: 8.440 ug/l

RT: 6.73 min Scan# 619

Delta R.T. 0.02 min

Lab File: VF061778.D

Acq: 27 Feb 2019 20:53

Instrument :
MSVOA_F
ClientSampled :

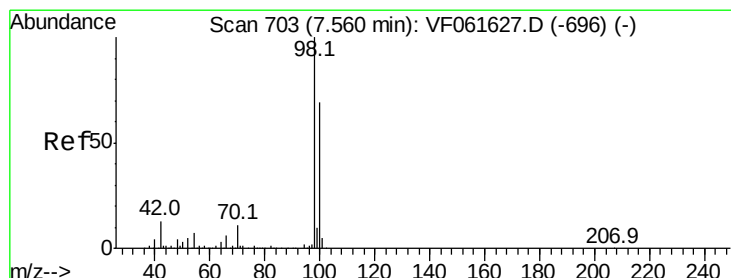
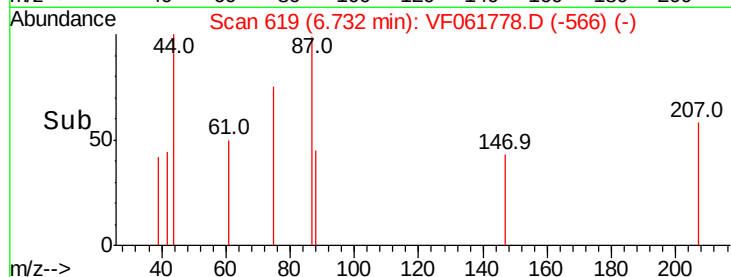
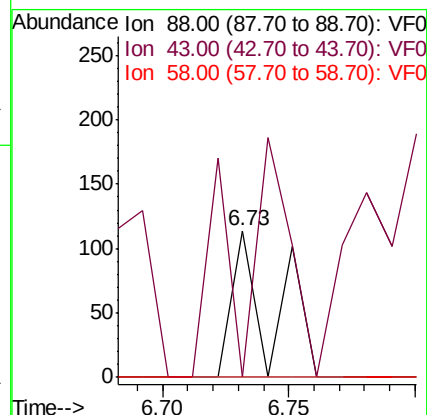
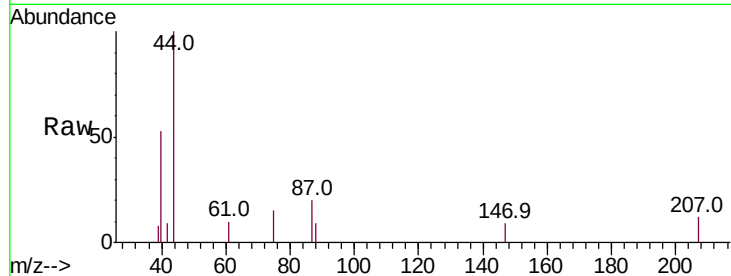
Tot Ion: 88 Resp: 128

Ion Ratio Lower Upper

88 100

43 0.0 32.3 48.5#

58 0.0 59.4 89.2#



#50

Toluene-d8

Concen: 41.524 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061778.D

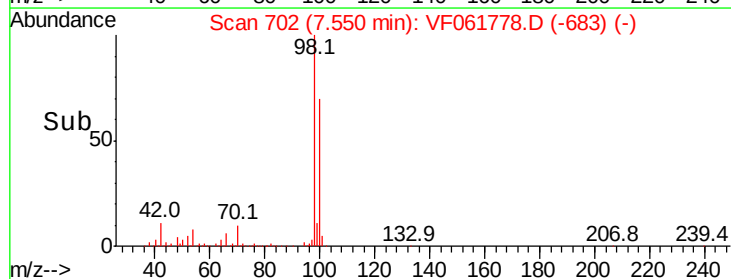
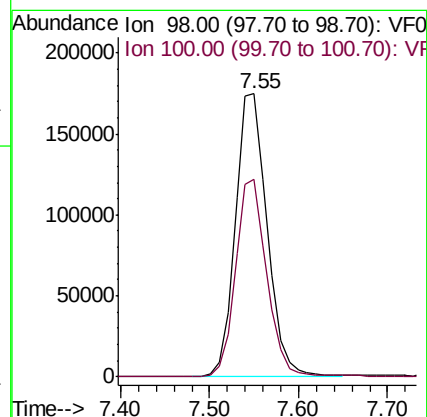
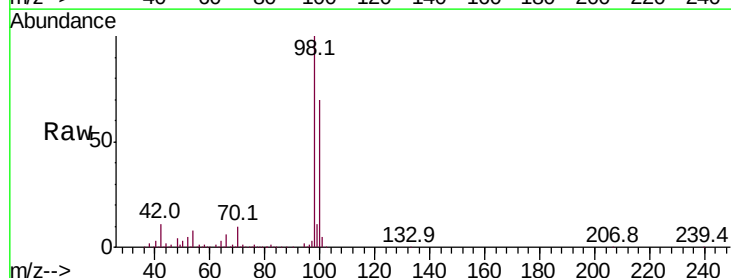
Acq: 27 Feb 2019 20:53

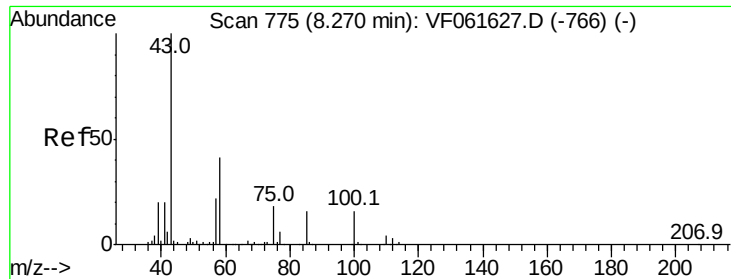
Tgt Ion: 98 Resp: 436320

Ion Ratio Lower Upper

98 100

100 69.8 55.4 83.2





#51

4-Methyl-2-Pentanone

Concen: 2.143 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061778.D

Acq: 27 Feb 2019 20:53

Instrument :

MSVOA_F

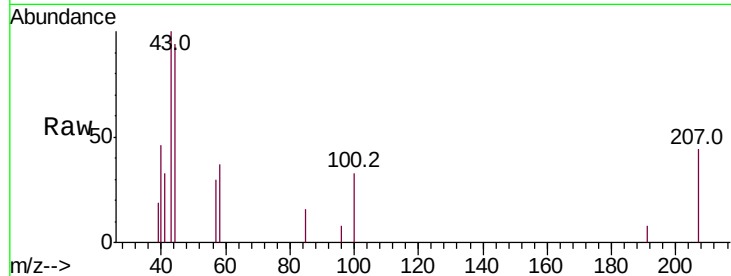
ClientSampled :

Tot Ion: 43 Resp: 4105

Ion Ratio Lower Upper

43 100

58 36.8 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.26

1500

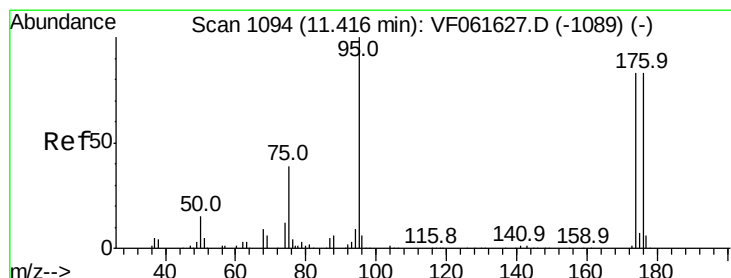
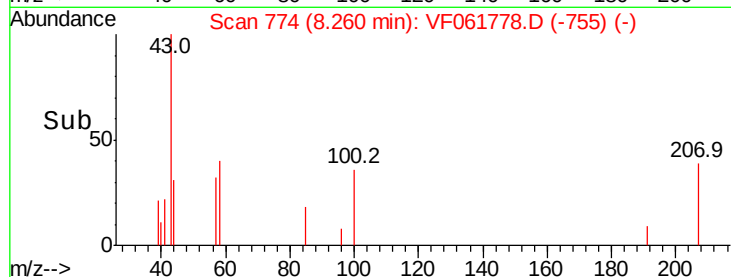
1000

500

0

8.15 8.20 8.25 8.30 8.35

Time-->



#62

4-Bromofluorobenzene

Concen: 45.563 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061778.D

Acq: 27 Feb 2019 20:53

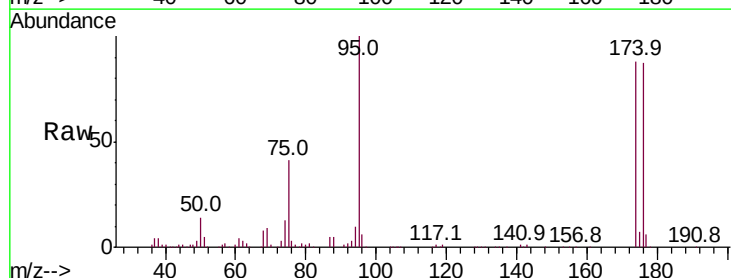
Tgt Ion: 95 Resp: 193714

Ion Ratio Lower Upper

95 100

174 87.7 0.0 165.8

176 86.6 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

150000

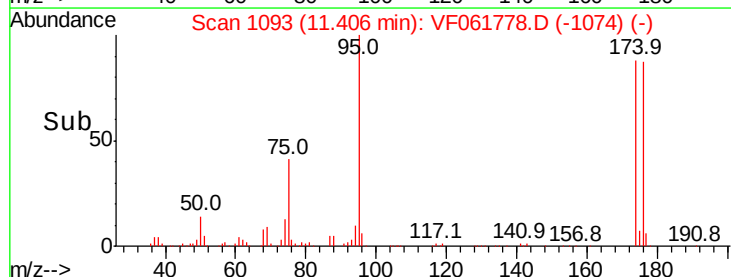
100000

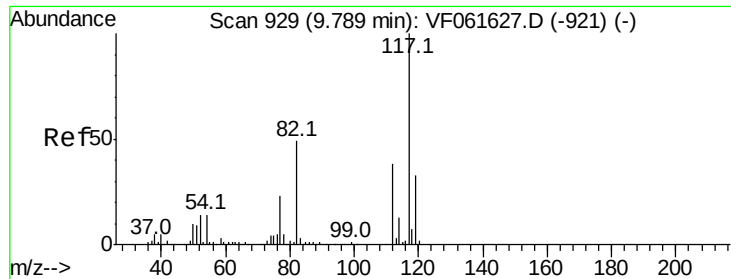
50000

0

11.30 11.40 11.50

Time-->

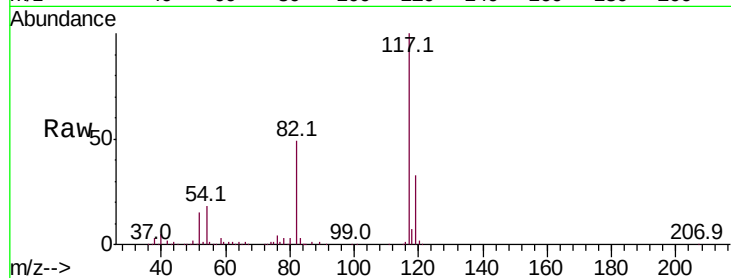




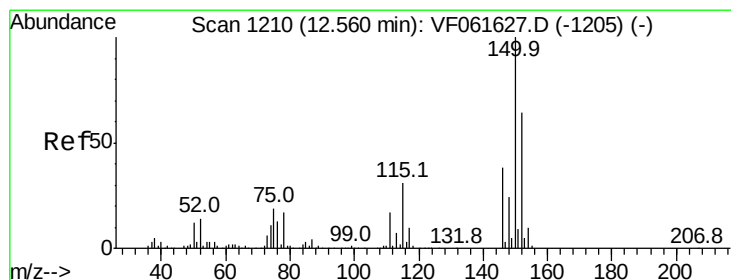
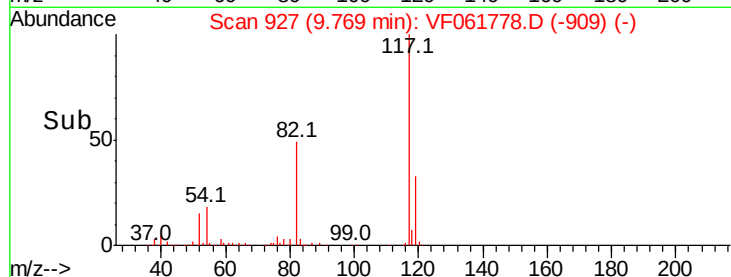
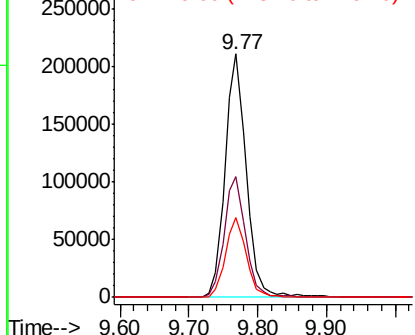
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061778.D
Acq: 27 Feb 2019 20:53

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.4	39.3	58.9
119	32.9	26.6	40.0

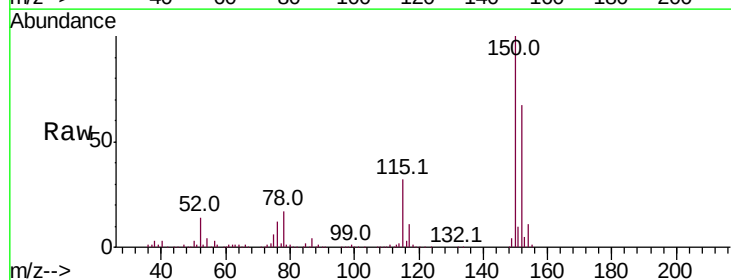


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061778.D
Acq: 27 Feb 2019 20:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	47.8	24.3	72.8
150	149.7	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

