

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051019\
 Data File : VF062420.D
 Acq On : 10 May 2019 13:43
 Operator : FY/SY
 Sample : K2643-03RE
 Misc : 7.04g/5mL/MSVOA_F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-050719-BRE

Quant Time: May 10 14:50:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.07	168	393020	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.78	114	547168	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	413397	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	230023	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	191970	51.69	ug/l	0.02
Spiked Amount			Recovery	=	103.38%	
35) Dibromofluoromethane	4.32	113	245139	56.23	ug/l	0.02
Spiked Amount			Recovery	=	112.46%	
50) Toluene-d8	7.72	98	488995	46.34	ug/l	0.02
Spiked Amount			Recovery	=	92.68%	
62) 4-Bromofluorobenzene	11.50	95	215595	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	

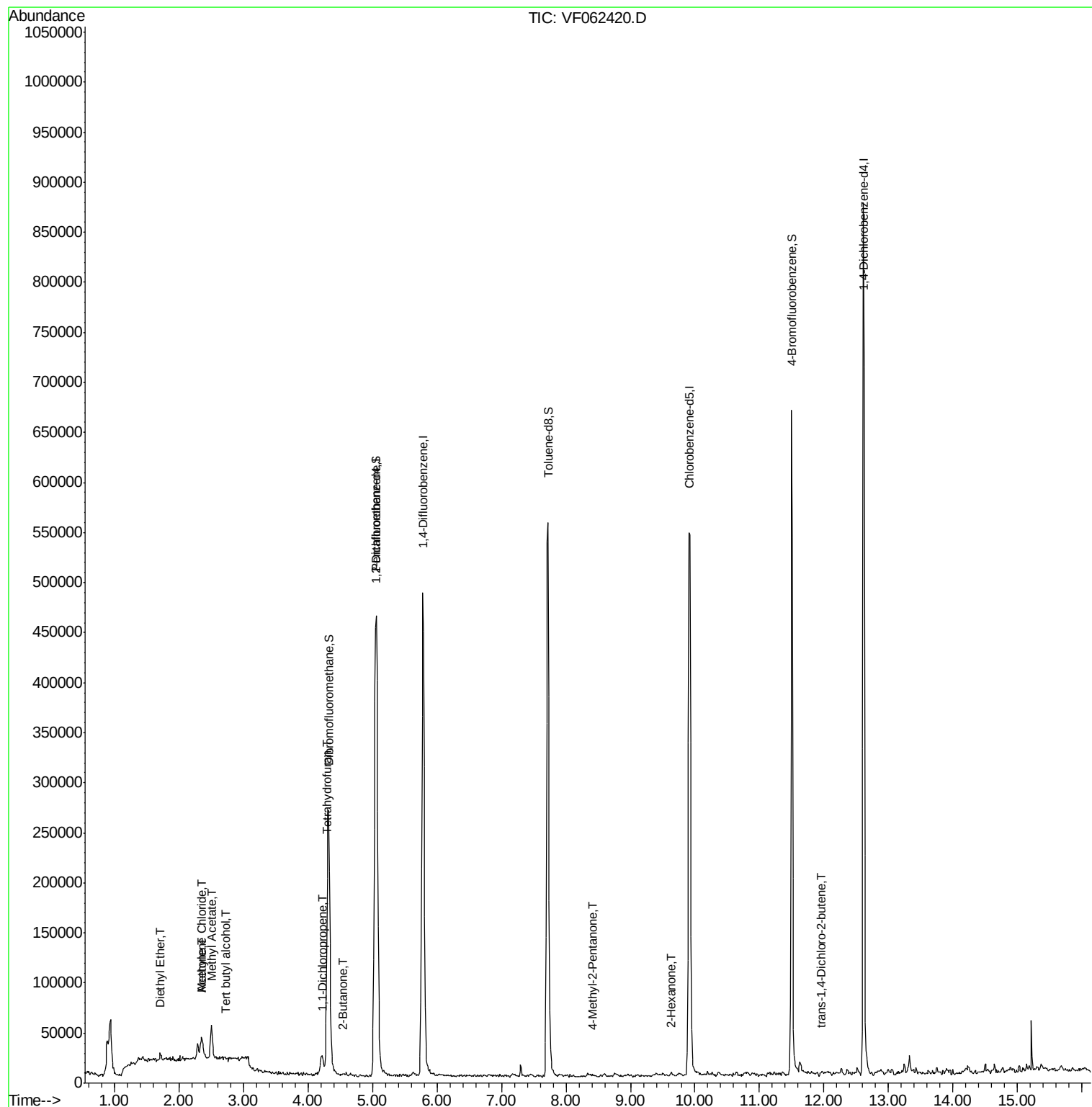
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	426	Below Cal	#	43
8) Diethyl Ether	1.72	74	2237	2.381	ug/l	94
11) Tert butyl alcohol	2.73	59	416	1.982	ug/l #	70
13) Acrolein	2.11	56	1064	Below Cal	#	20
16) Acetone	2.35	43	10254	13.647	ug/l	99
18) Methyl Acetate	2.50	43	12952	6.743	ug/l #	66
20) Methylene Chloride	2.35	84	11584	4.261	ug/l	94
25) 2-Butanone	4.53	43	1346	1.426	ug/l #	60
29) Tetrahydrofuran	4.29	42	879	2.026	ug/l #	56
36) 1,1-Dichloropropene	4.21	75	32804	6.979	ug/l #	44
37) Ethyl Acetate	4.33	43	344	Below Cal	#	73
38) Carbon Tetrachloride	4.14	117	70	Below Cal	#	14
49) 1,4-Dioxane	6.80	88	175	Below Cal	#	16
51) 4-Methyl-2-Pentanone	8.41	43	1651	1.019	ug/l #	77
59) 2-Hexanone	9.64	43	1721	1.536	ug/l	69
81) trans-1,4-Dichloro-2-buten	11.95	75	728	1.189	ug/l #	5

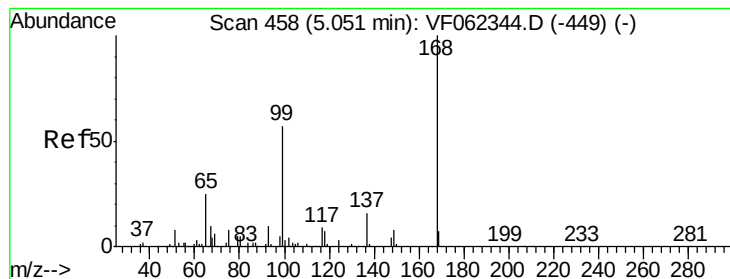
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF051019\
Data File : VF062420.D
Acq On : 10 May 2019 13:43
Operator : FY/SY
Sample : K2643-03RE
Misc : 7.04g/5mL/MSVOA_F/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
OR-03-050719-BRE

Quant Time: May 10 14:50:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.02 min

Lab File: VF062420.D

Acq: 10 May 2019 13:43

Instrument :

MSVOA_F

ClientSampleId :

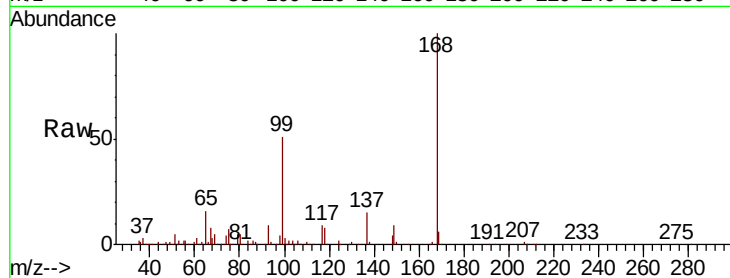
OR-03-050719-BRE

Tgt Ion:168 Resp: 393020

Ion Ratio Lower Upper

168 100

99 50.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.07

150000

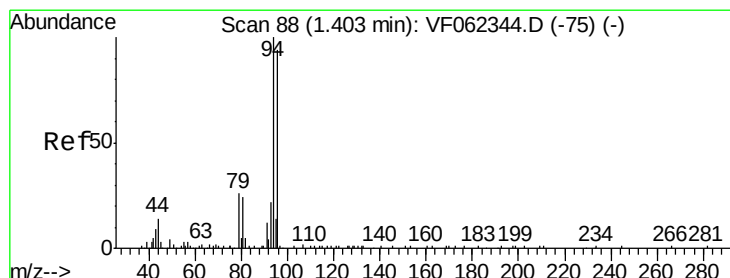
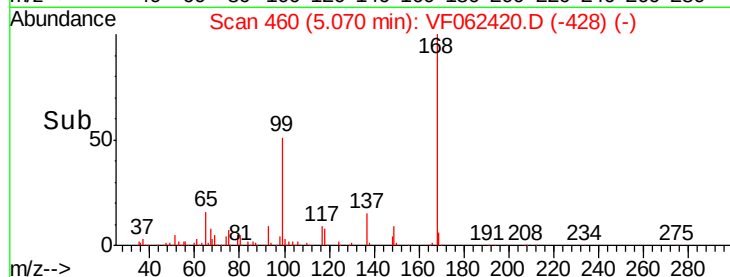
100000

50000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062420.D

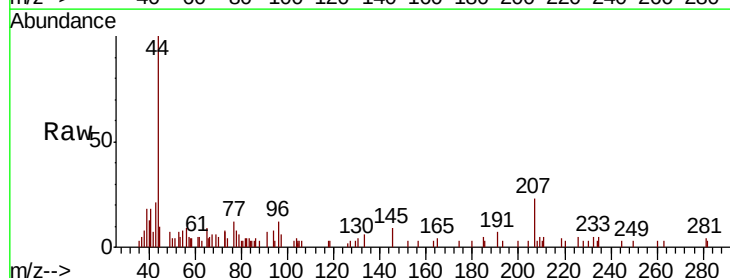
Acq: 10 May 2019 13:43

Tgt Ion: 94 Resp: 426

Ion Ratio Lower Upper

94 100

96 149.6 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

600

500

400

300

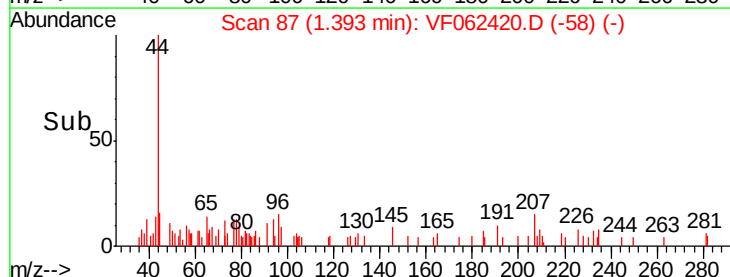
200

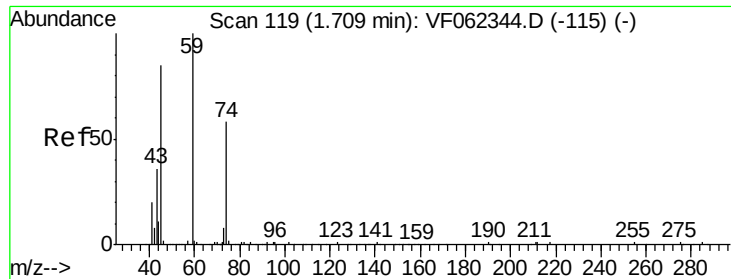
100

0

Time-->

1.36 1.38 1.40 1.42 1.44





#8

Diethyl Ether

Concen: 2.381 ug/l

RT: 1.72 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF062420.D

Acq: 10 May 2019 13:43

Instrument :

MSVOA_F

ClientSampleId :

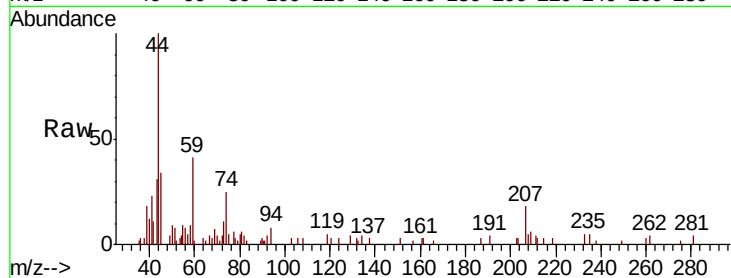
OR-03-050719-BRE

Tgt Ion: 74 Resp: 2237

Ion Ratio Lower Upper

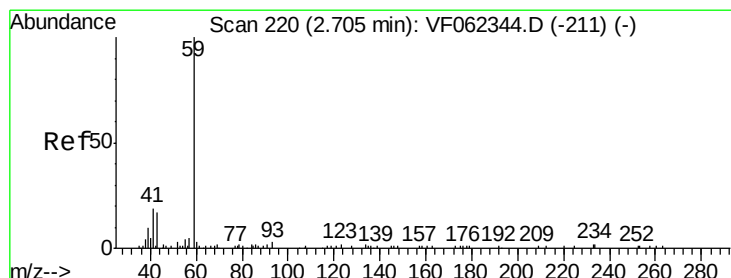
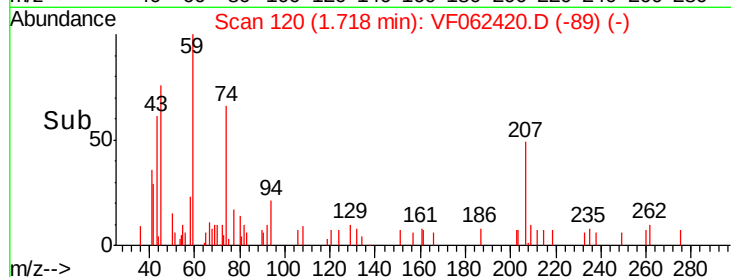
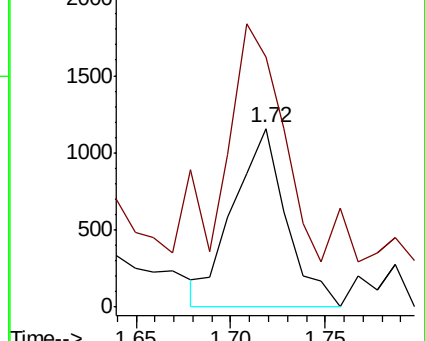
74 100

45 140.6 73.9 221.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 1.982 ug/l

RT: 2.73 min Scan# 223

Delta R.T. 0.03 min

Lab File: VF062420.D

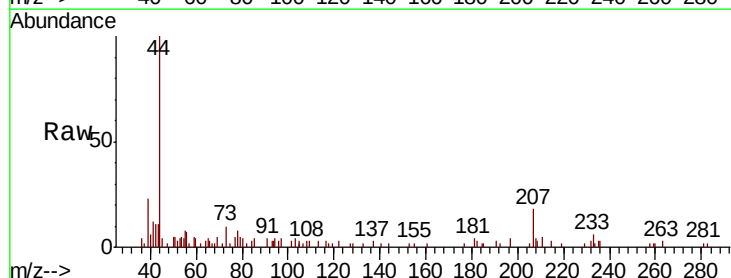
Acq: 10 May 2019 13:43

Tgt Ion: 59 Resp: 416

Ion Ratio Lower Upper

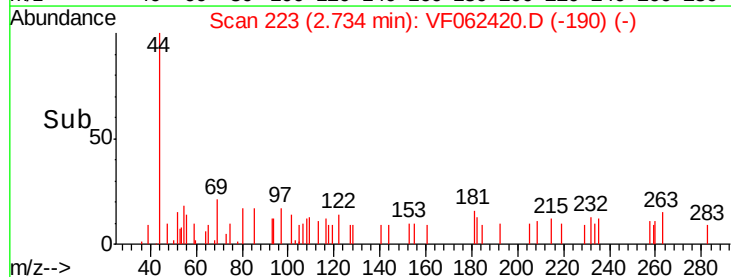
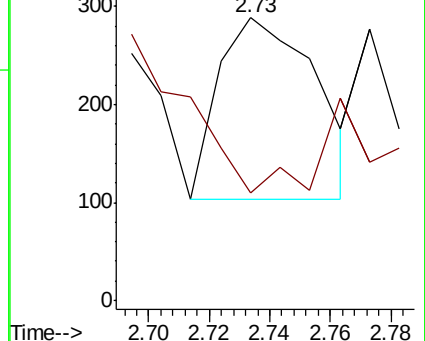
59 100

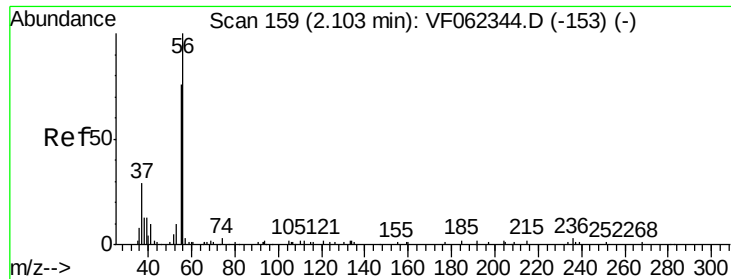
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.11 min Scan# 160

Delta R.T. 0.01 min

Lab File: VF062420.D

Acq: 10 May 2019 13:43

Instrument :

MSVOA_F

ClientSampleId :

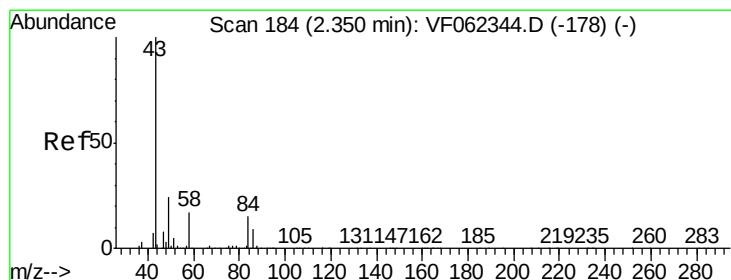
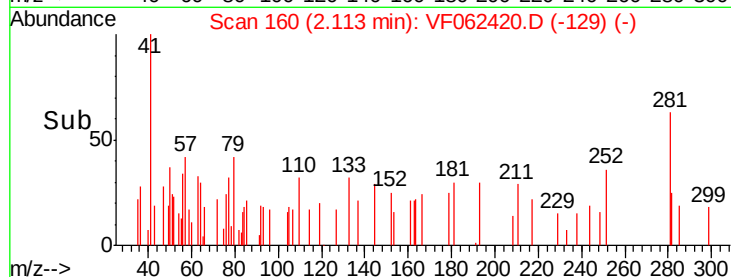
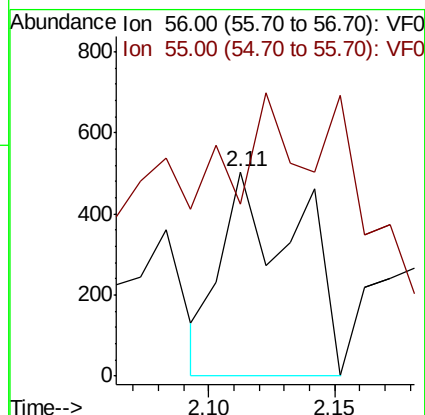
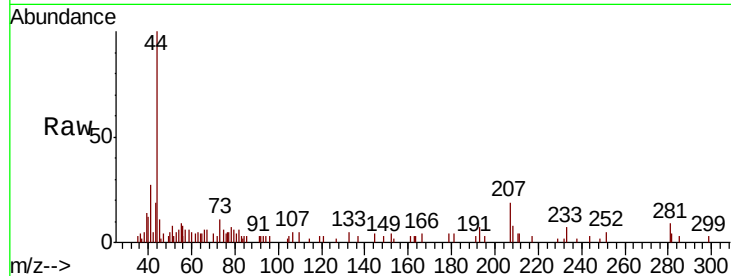
OR-03-050719-BRE

Tgt Ion: 56 Resp: 1064

Ion Ratio Lower Upper

56 100

55 140.0 58.4 87.6#



#16

Acetone

Concen: 13.647 ug/l

RT: 2.35 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062420.D

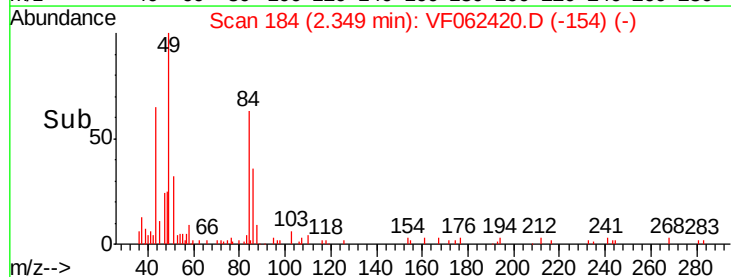
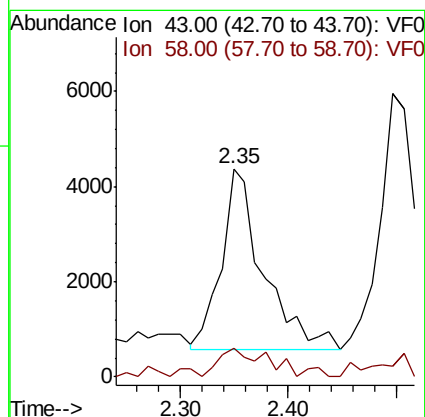
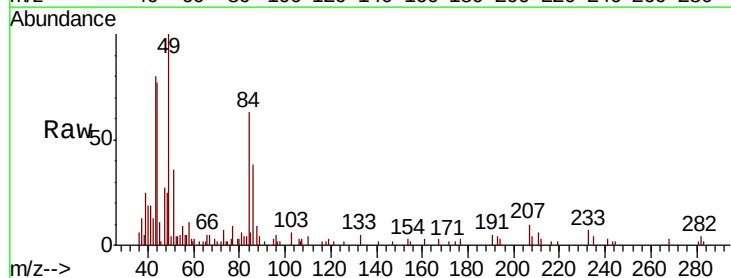
Acq: 10 May 2019 13:43

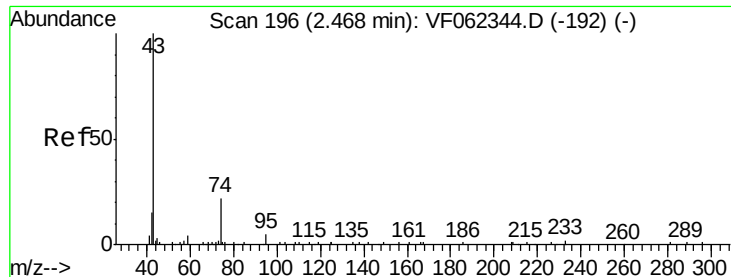
Tgt Ion: 43 Resp: 10254

Ion Ratio Lower Upper

43 100

58 16.1 13.1 19.7

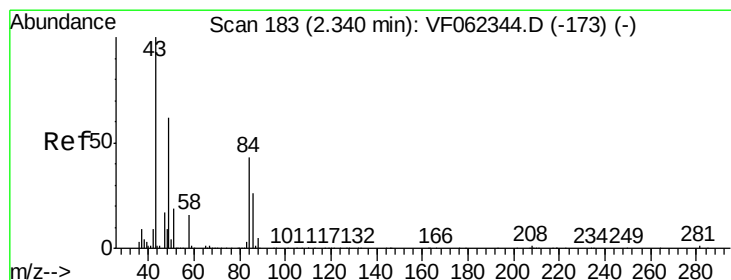
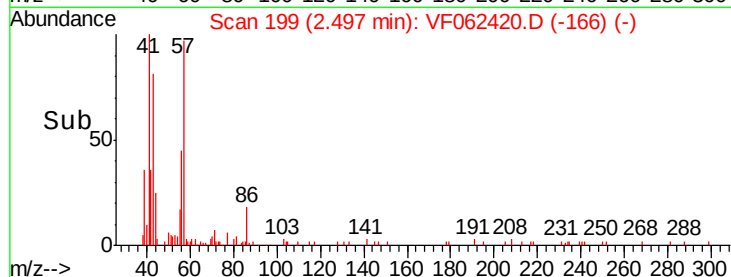
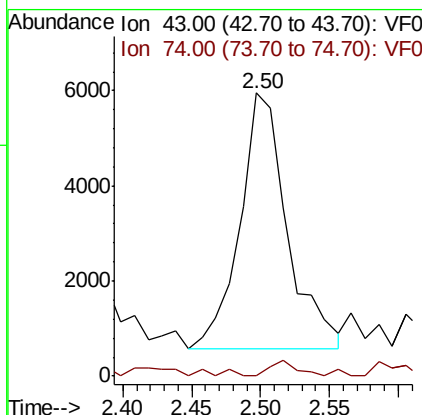
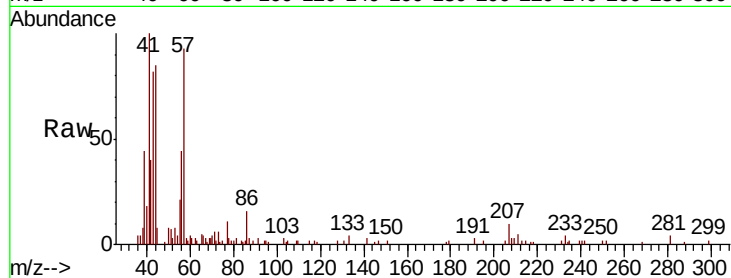




#18
Methyl Acetate
Concen: 6.743 ug/l
RT: 2.50 min Scan# 199
Delta R.T. 0.03 min
Lab File: VF062420.D
Acq: 10 May 2019 13:43

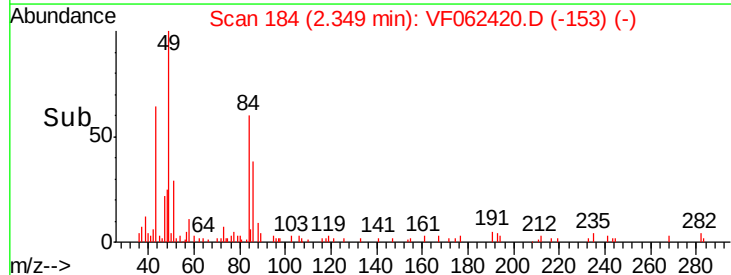
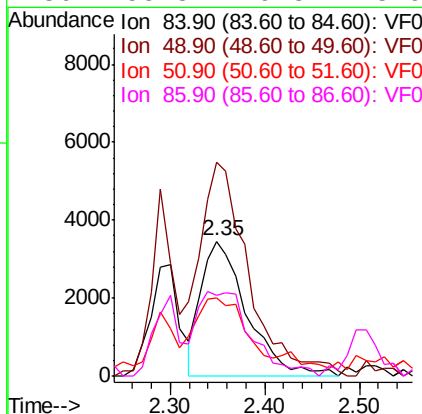
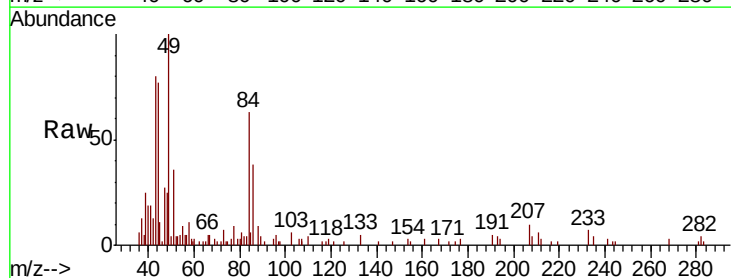
Instrument :
MSVOA_F
ClientSampleId :
OR-03-050719-BRE

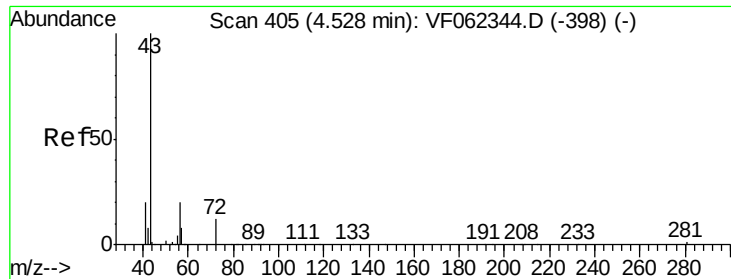
Tgt Ion: 43 Resp: 12952
Ion Ratio Lower Upper
43 100
74 3.5 15.0 22.4#



#20
Methylene Chloride
Concen: 4.261 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062420.D
Acq: 10 May 2019 13:43

Tgt Ion: 84 Resp: 11584
Ion Ratio Lower Upper
84 100
49 155.0 117.5 176.3
51 47.8 37.0 55.4
86 55.8 49.3 73.9





#25

2-Butanone

Concen: 1.426 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.00 min

Lab File: VF062420.D

Acq: 10 May 2019 13:43

Instrument :

MSVOA_F

ClientSampleId :

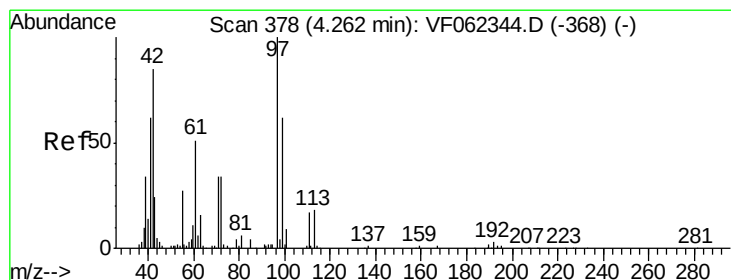
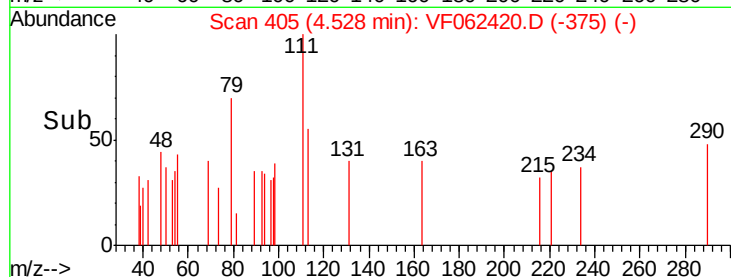
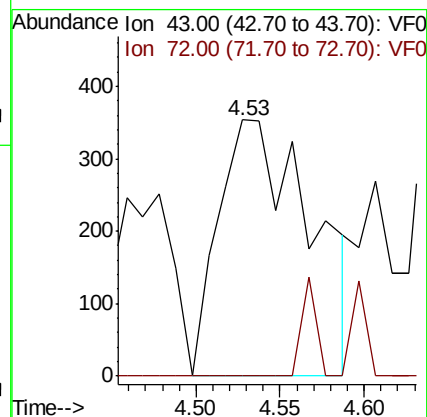
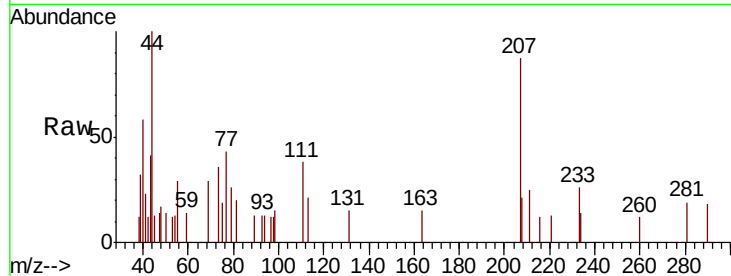
OR-03-050719-BRE

Tgt Ion: 43 Resp: 1346

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



#29

Tetrahydrofuran

Concen: 2.026 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062420.D

Acq: 10 May 2019 13:43

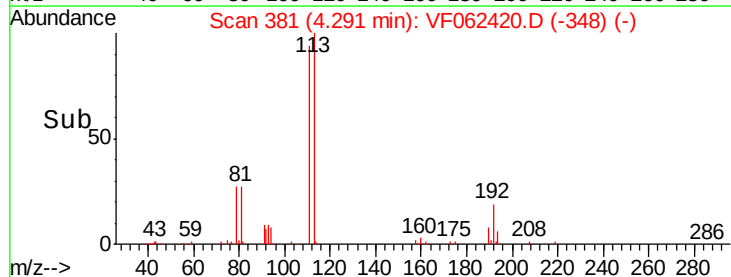
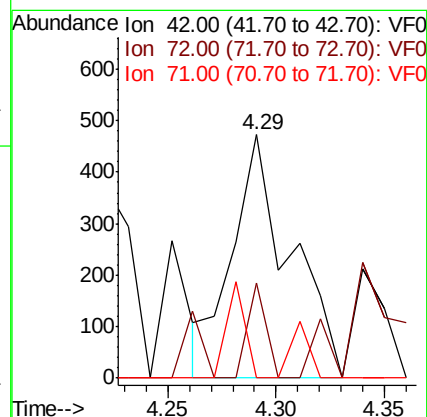
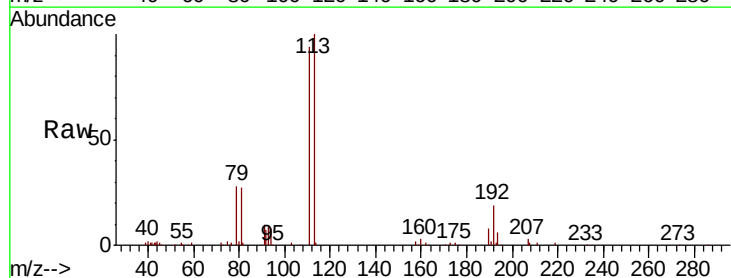
Tgt Ion: 42 Resp: 879

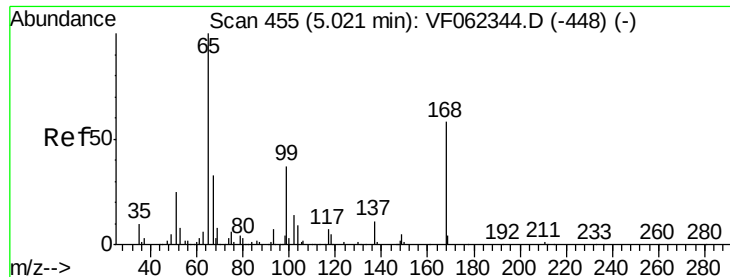
Ion Ratio Lower Upper

42 100

72 12.5 31.4 47.0#

71 12.6 31.7 47.5#

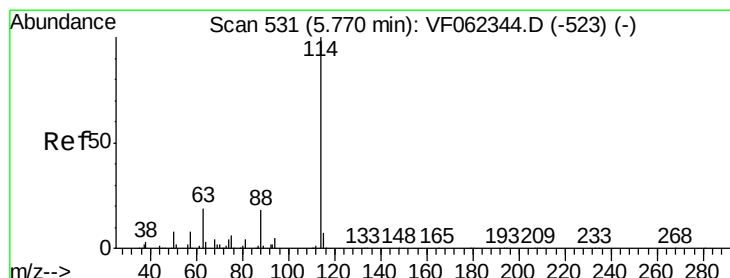
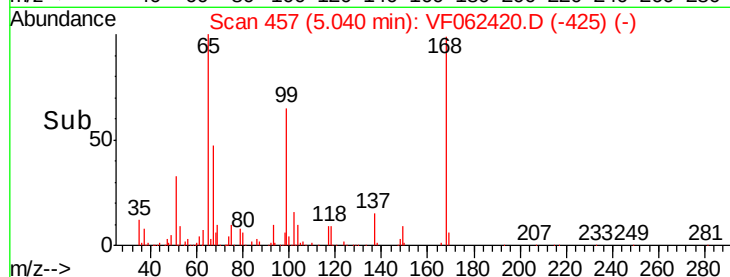
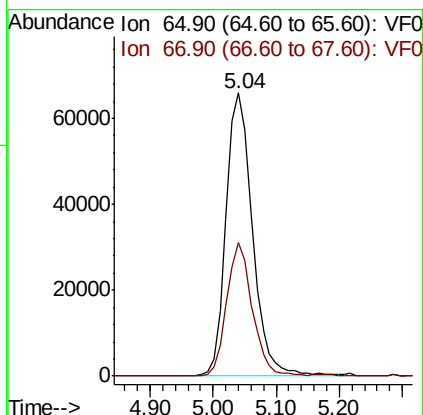
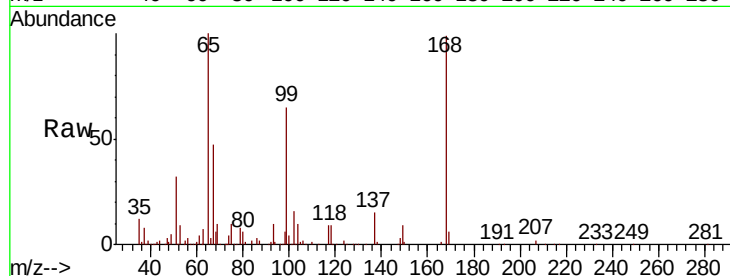




#33
 1,2-Dichloroethane-d4
 Concen: 51.685 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.02 min
 Lab File: VF062420.D
 Acq: 10 May 2019 13:43

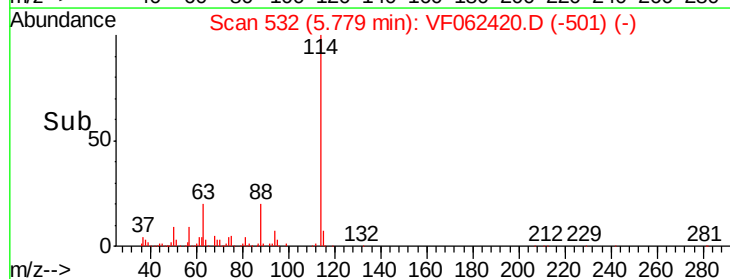
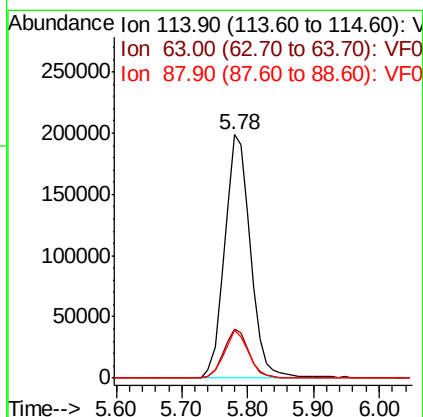
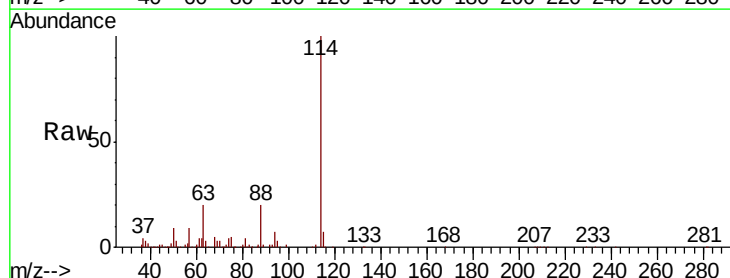
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-050719-BRE

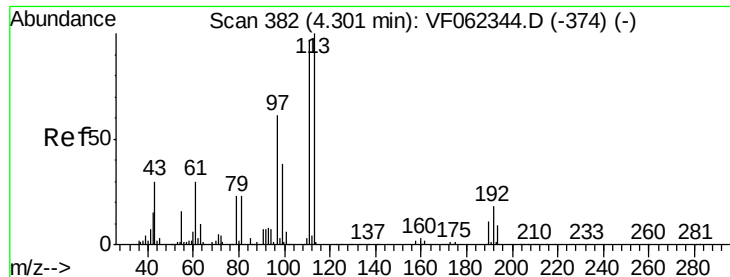
Tgt Ion: 65 Resp: 191970
 Ion Ratio Lower Upper
 65 100
 67 45.3 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF062420.D
 Acq: 10 May 2019 13:43

Tgt Ion: 114 Resp: 547168
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 37.4
 88 19.8 0.0 36.4

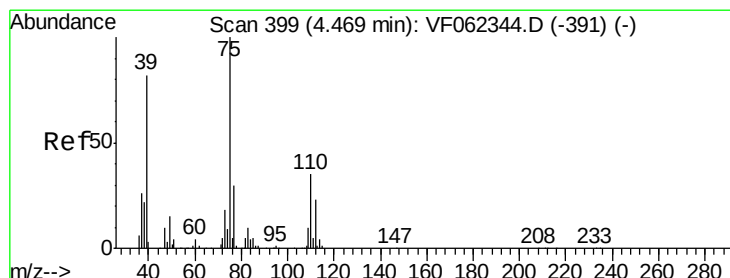
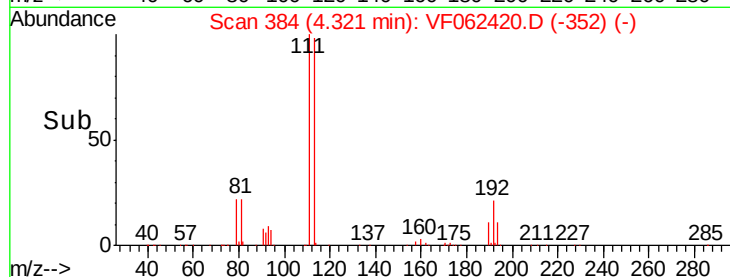
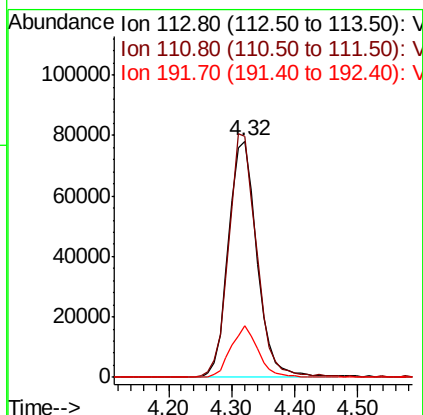
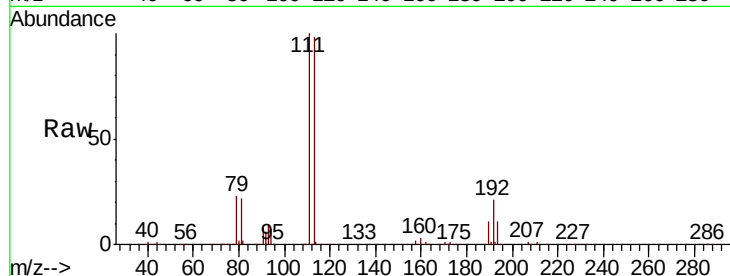




#35
 Dibromofluoromethane
 Concen: 56.235 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062420.D
 Acq: 10 May 2019 13:43

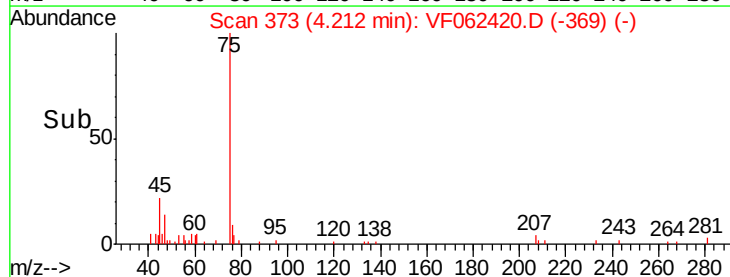
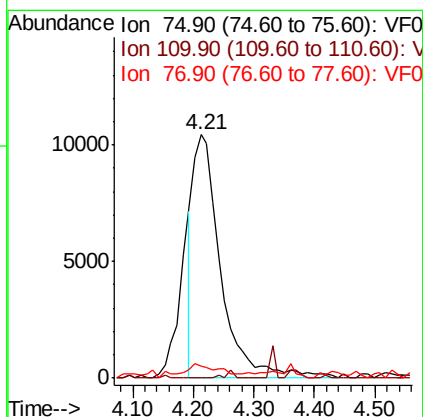
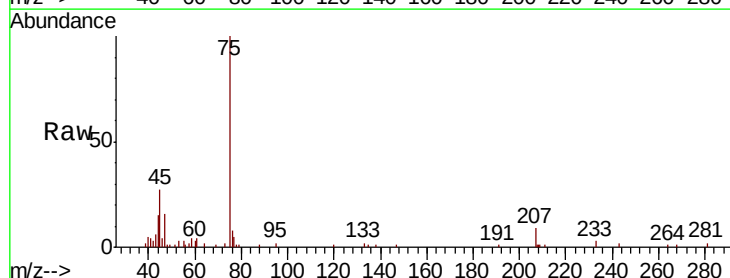
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-050719-BRE

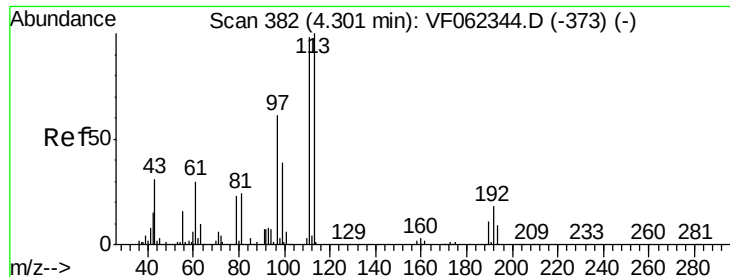
Tgt Ion: 113 Resp: 245139
 Ion Ratio Lower Upper
 113 100
 111 100.6 79.4 119.0
 192 20.9 16.0 24.0



#36
 1,1-Dichloropropene
 Concen: 6.979 ug/l
 RT: 4.21 min Scan# 373
 Delta R.T. -0.26 min
 Lab File: VF062420.D
 Acq: 10 May 2019 13:43

Tgt Ion: 75 Resp: 32804
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.2 51.5#
 77 3.0 25.2 37.8#

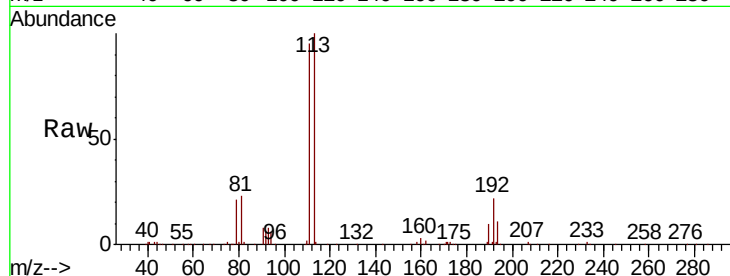




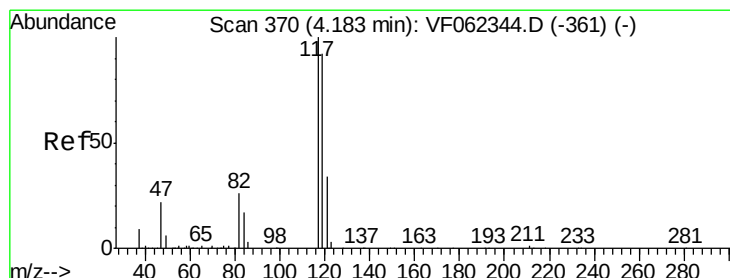
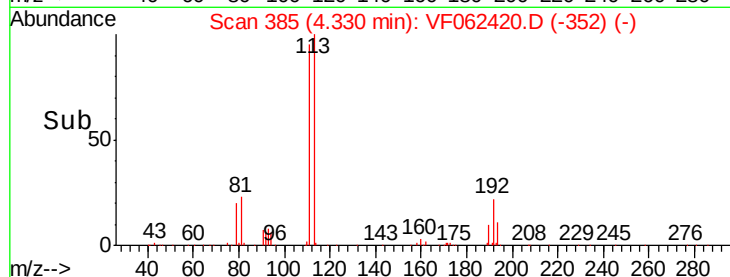
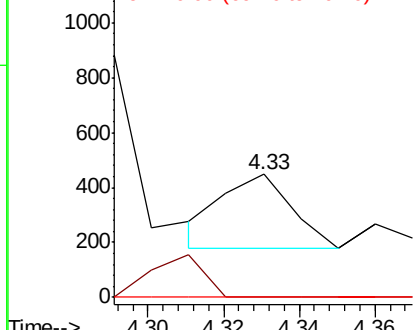
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 385
Delta R.T. 0.03 min
Lab File: VF062420.D
Acq: 10 May 2019 13:43

Instrument :
MSVOA_F
ClientSampleId :
OR-03-050719-BRE

Tgt Ion: 43 Resp: 344
Ion Ratio Lower Upper
43 100
61 43.6 0.0 0.0#
70 0.0 8.2 12.2#

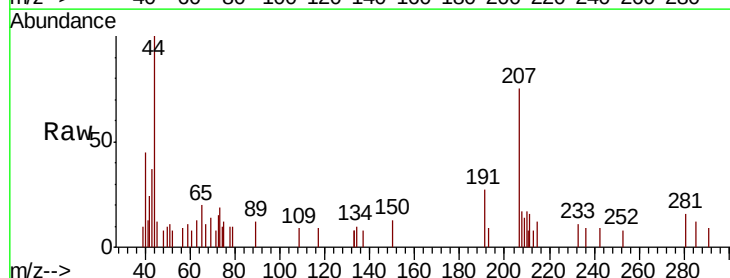


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0

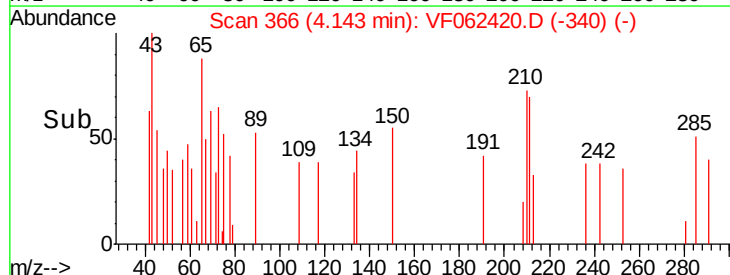
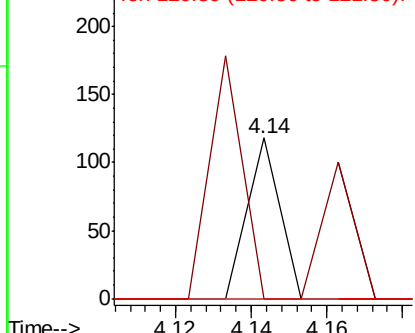


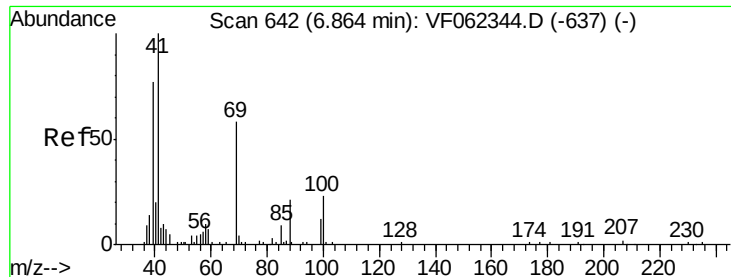
#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.14 min Scan# 366
Delta R.T. -0.04 min
Lab File: VF062420.D
Acq: 10 May 2019 13:43

Tgt Ion: 117 Resp: 70
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

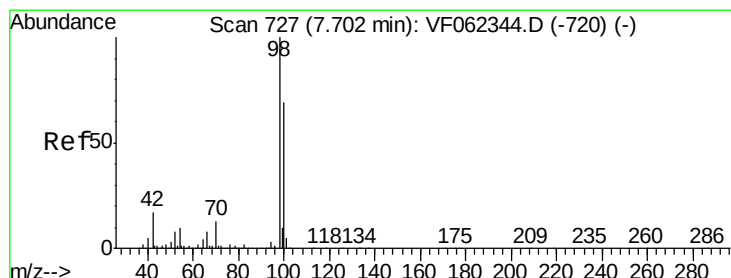
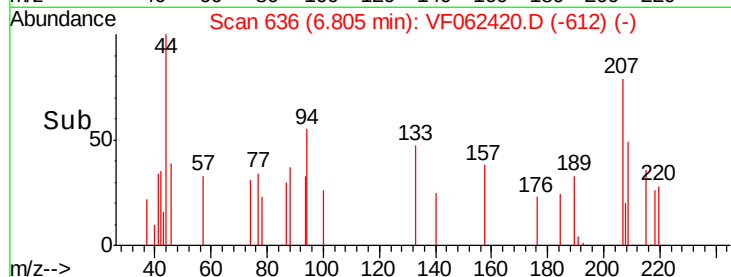
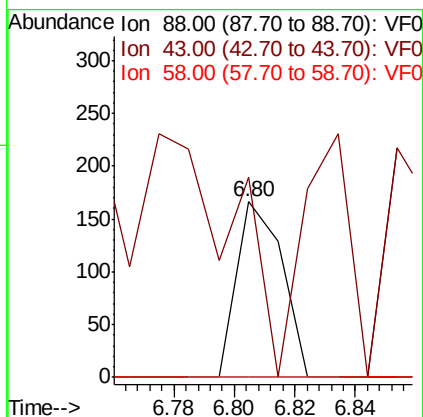
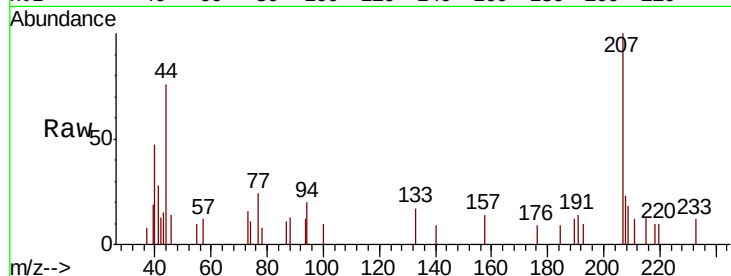




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.80 min Scan# 636
Delta R.T. -0.06 min
Lab File: VF062420.D
Acq: 10 May 2019 13:43

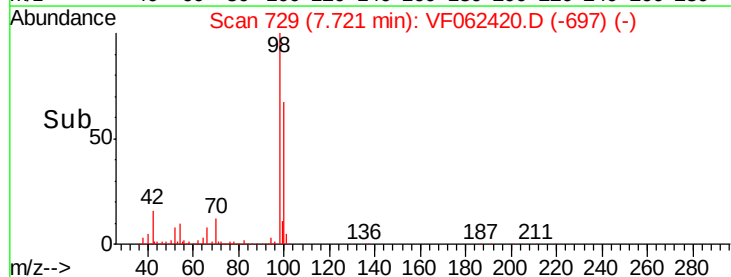
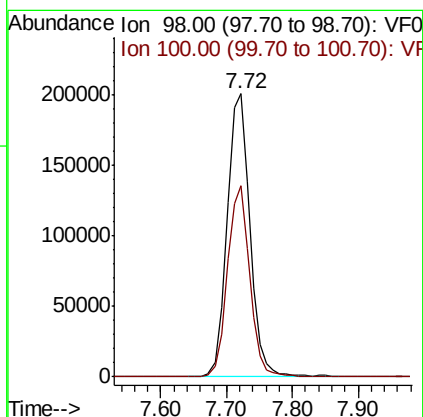
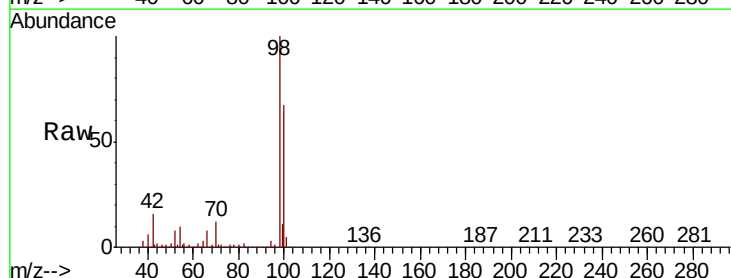
Instrument :
MSVOA_F
ClientSampleId :
OR-03-050719-BRE

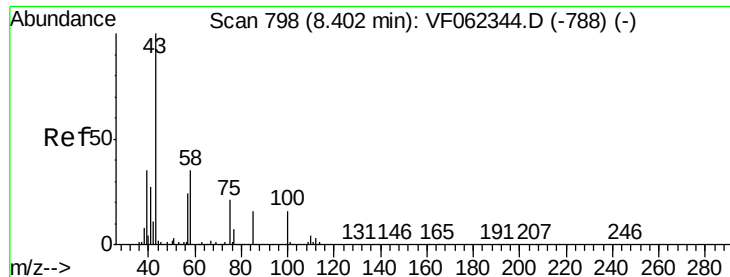
Tgt Ion: 88 Resp: 175
Ion Ratio Lower Upper
88 100
43 0.0 55.6 83.4#
58 0.0 52.8 79.2#



#50
Toluene-d8
Concen: 46.341 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062420.D
Acq: 10 May 2019 13:43

Tgt Ion: 98 Resp: 488995
Ion Ratio Lower Upper
98 100
100 65.8 53.3 79.9

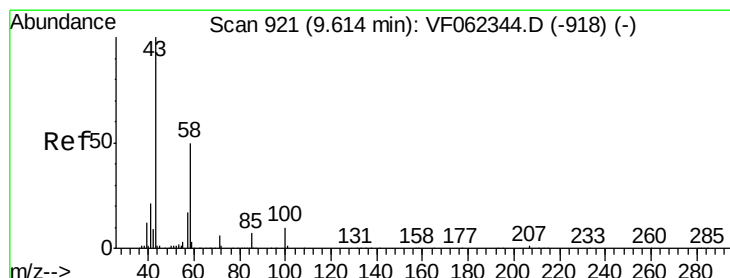
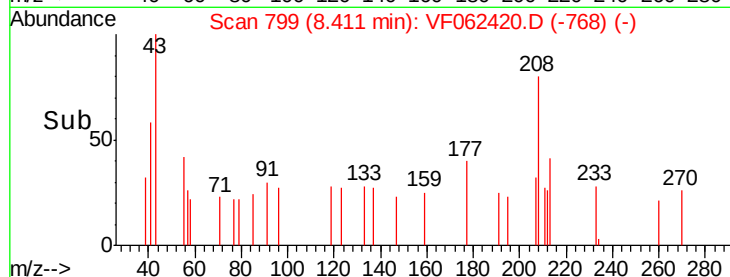
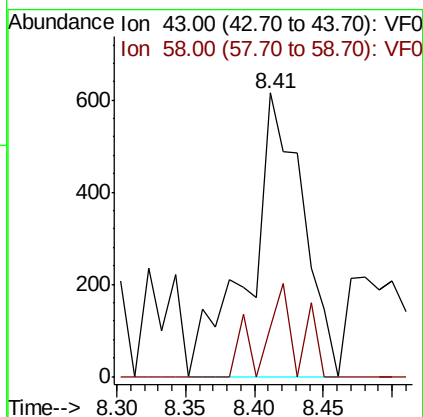
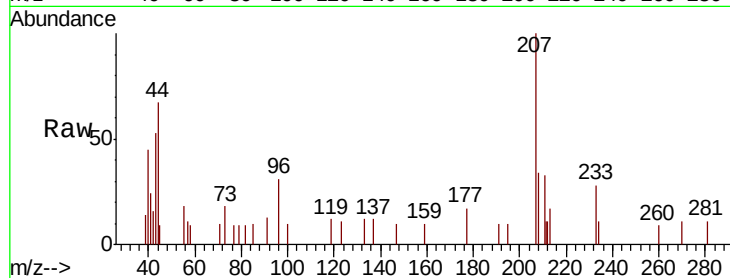




#51
 4-Methyl-2-Pentanone
 Concen: 1.019 ug/l
 RT: 8.41 min Scan# 799
 Delta R.T. 0.01 min
 Lab File: VF062420.D
 Acq: 10 May 2019 13:43

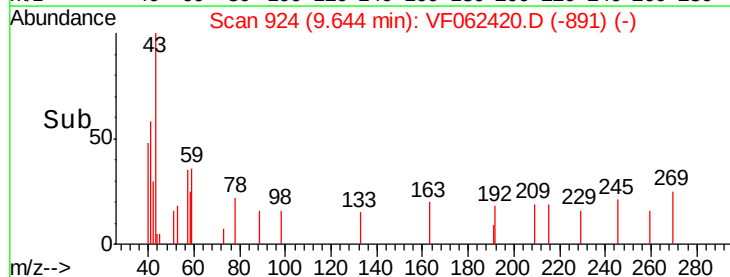
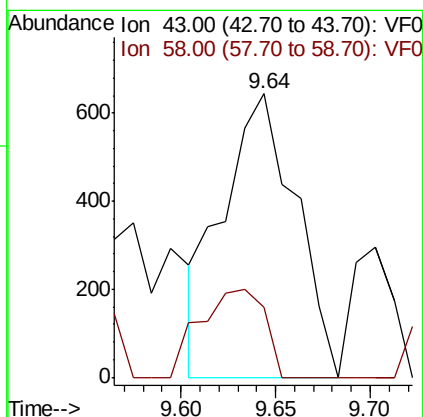
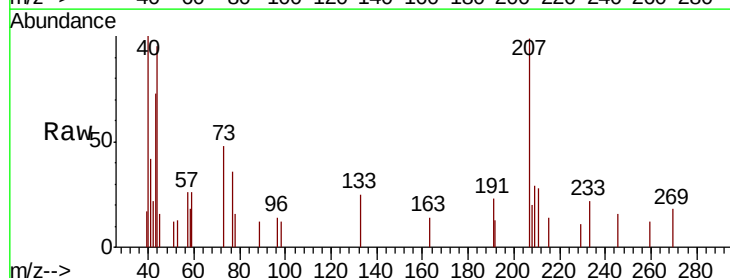
Instrument :
 MSVOA_F
 ClientSampleId :
 OR-03-050719-BRE

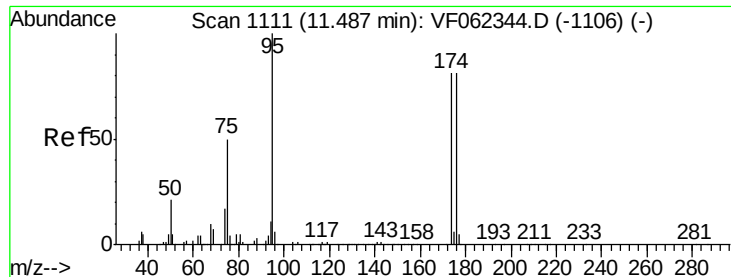
Tgt Ion: 43 Resp: 1651
 Ion Ratio Lower Upper
 43 100
 58 21.7 27.8 41.6#



#59
 2-Hexanone
 Concen: 1.536 ug/l
 RT: 9.64 min Scan# 924
 Delta R.T. 0.03 min
 Lab File: VF062420.D
 Acq: 10 May 2019 13:43

Tgt Ion: 43 Resp: 1721
 Ion Ratio Lower Upper
 43 100
 58 27.4 24.3 73.0





#62

4-Bromofluorobenzene

Concen: 45.286 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062420.D

Acq: 10 May 2019 13:43

Instrument :

MSVOA_F

ClientSampleId :

OR-03-050719-BRE

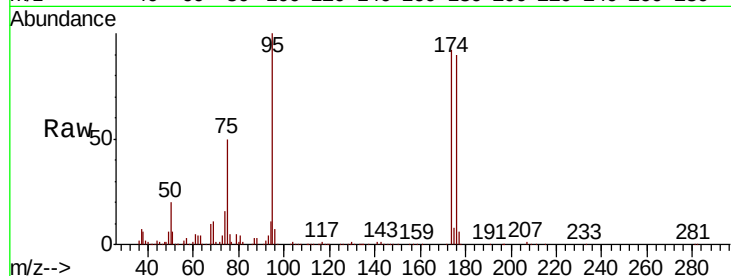
Tgt Ion: 95 Resp: 215595

Ion Ratio Lower Upper

95 100

174 97.6 0.0 191.8

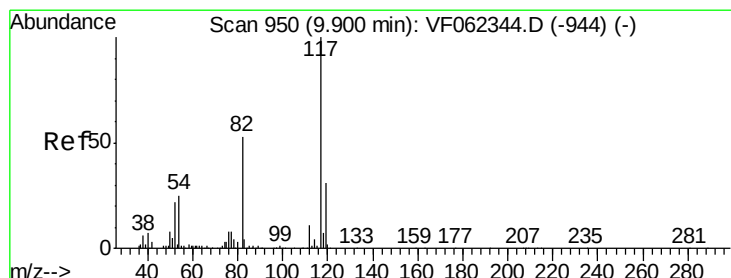
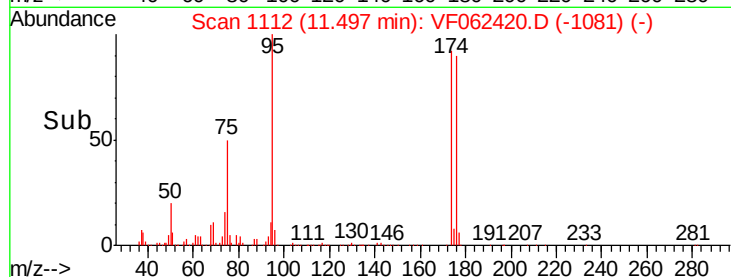
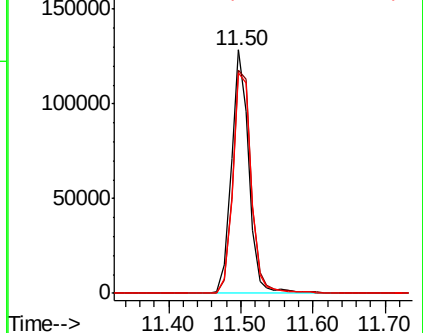
176 96.9 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062420.D

Acq: 10 May 2019 13:43

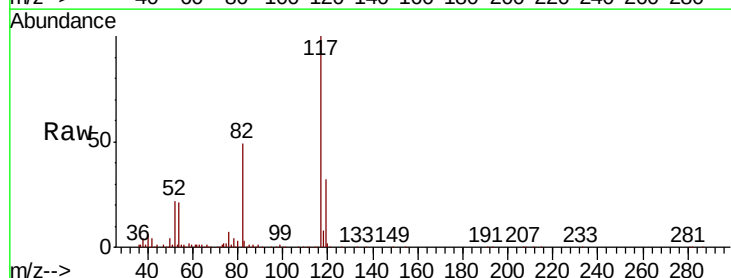
Tgt Ion: 117 Resp: 413397

Ion Ratio Lower Upper

117 100

82 49.4 42.2 63.2

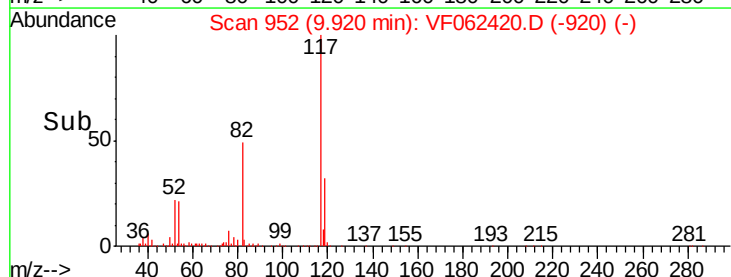
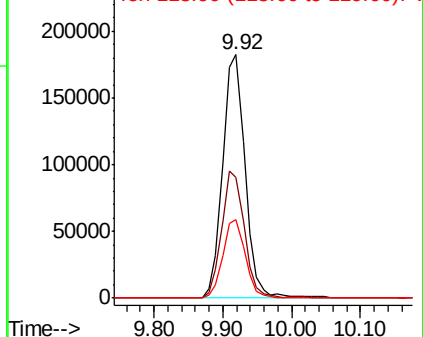
119 32.4 25.0 37.4

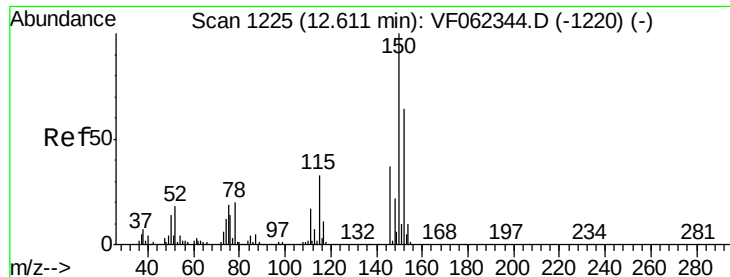


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062420.D

Acq: 10 May 2019 13:43

Instrument :

MSVOA_F

ClientSampleId :

OR-03-050719-BRE

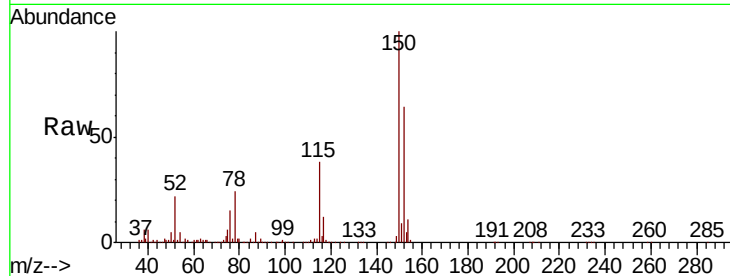
Tgt Ion:152 Resp: 230023

Ion Ratio Lower Upper

152 100

115 55.0 26.4 79.2

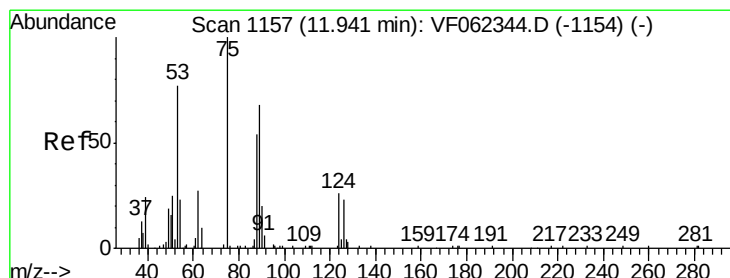
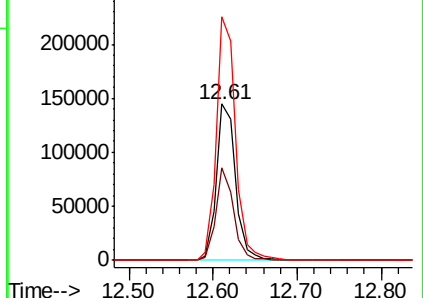
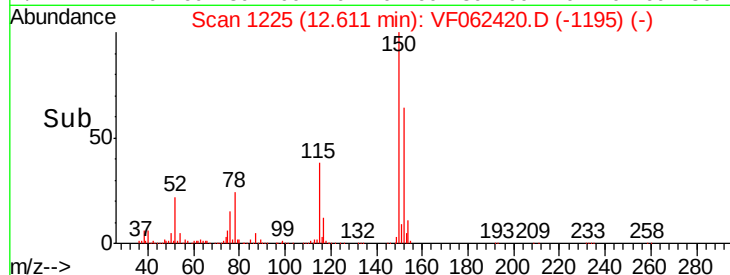
150 154.8 0.0 335.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 1.189 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062420.D

Acq: 10 May 2019 13:43

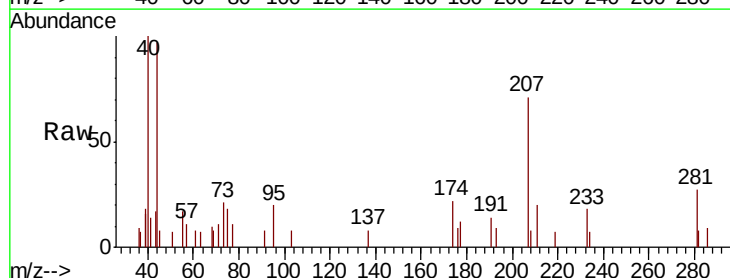
Tgt Ion: 75 Resp: 728

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

