

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062475.D
 Acq On : 11 May 2019 23:39
 Operator : FY/SY
 Sample : VF0511SBL02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBL02

Quant Time: May 12 03:51:37 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	5.06	168	301247	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	390110	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	349841	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	235120	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	128371	45.09	ug/l	0.02
Spiked Amount			Recovery	=	90.18%	
35) Dibromofluoromethane	4.31	113	154855	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	7.72	98	323647	43.02	ug/l	0.02
Spiked Amount			Recovery	=	86.04%	
62) 4-Bromofluorobenzene	11.50	95	153305	45.17	ug/l	0.00
Spiked Amount			Recovery	=	90.34%	

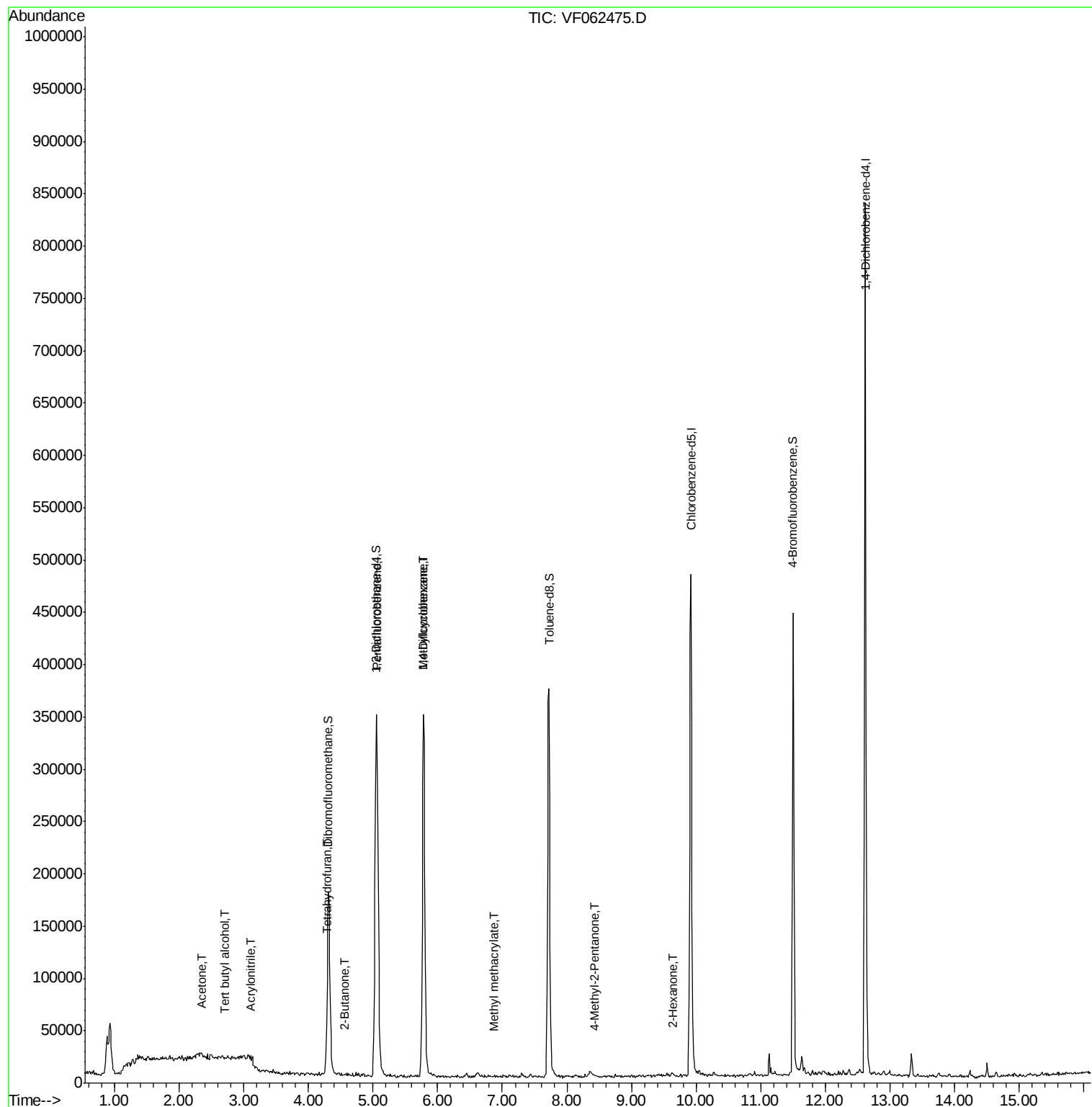
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	533	Below Cal	#	3
11) Tert butyl alcohol	2.69	59	667	4.145	ug/l #	1
13) Acrolein	2.06	56	674	Below Cal	#	13
15) Acrylonitrile	3.10	53	1289	4.229	ug/l #	76
16) Acetone	2.36	43	2740	4.758	ug/l #	57
18) Methyl Acetate	2.49	43	701	Below Cal	#	1
25) 2-Butanone	4.56	43	2176	3.007	ug/l #	60
29) Tetrahydrofuran	4.28	42	1338	4.024	ug/l #	58
37) Ethyl Acetate	4.32	43	547	Below Cal	#	73
38) Carbon Tetrachloride	4.18	117	64	Below Cal	#	14
39) Methylcyclohexane	5.78	83	6680	1.988	ug/l #	29
48) Methyl methacrylate	6.86	41	1311	1.217	ug/l #	20
49) 1,4-Dioxane	6.87	88	69	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.41	43	1892	1.638	ug/l #	66
59) 2-Hexanone	9.62	43	3083	3.859	ug/l	77

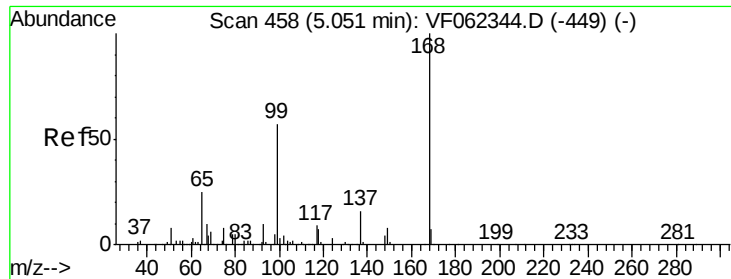
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.01 min

Lab File: VF062475.D

Acq: 11 May 2019 23:39

Instrument :

MSVOA_F

ClientSampleId :

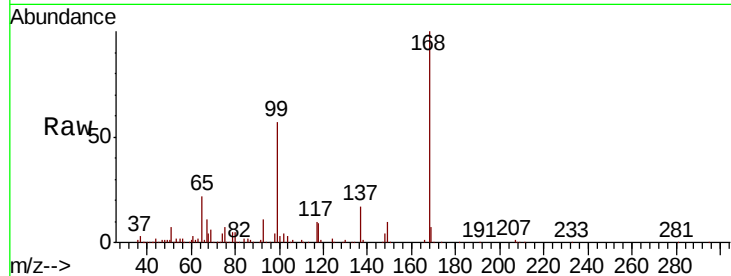
VF0511SBL02

Tot Ion:168 Resp: 301247

Ion Ratio Lower Upper

168 100

99 56.6 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

100000

80000

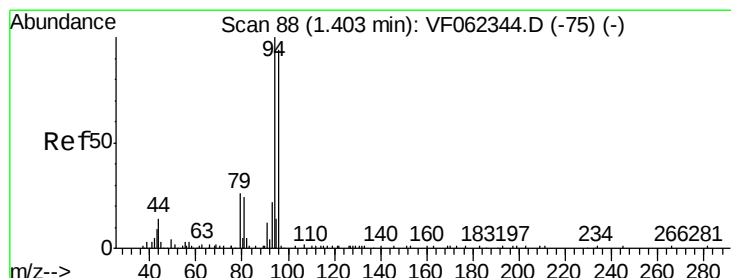
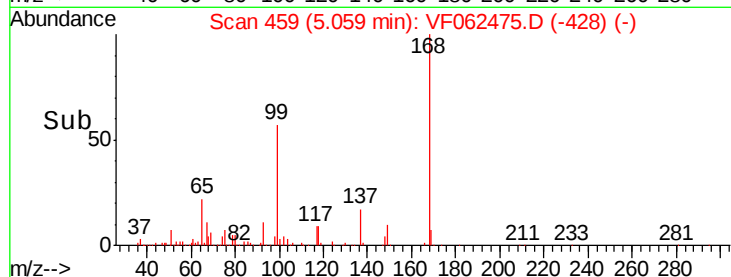
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062475.D

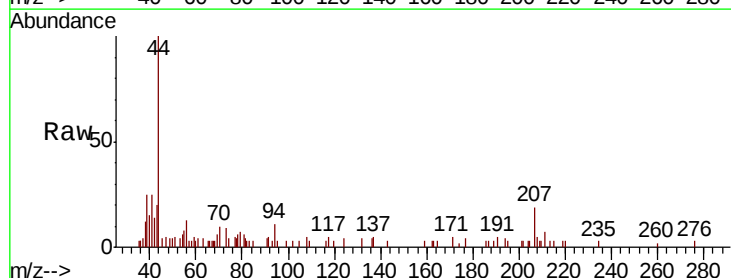
Acq: 11 May 2019 23:39

Tgt Ion: 94 Resp: 533

Ion Ratio Lower Upper

94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.39

500

400

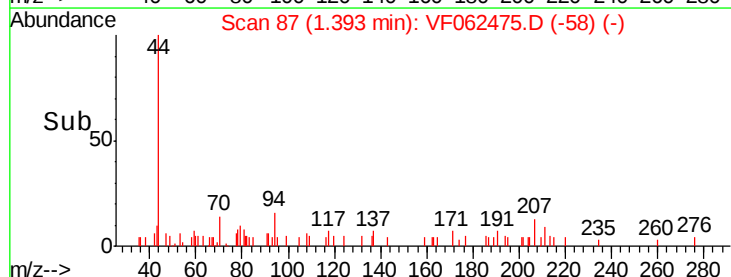
300

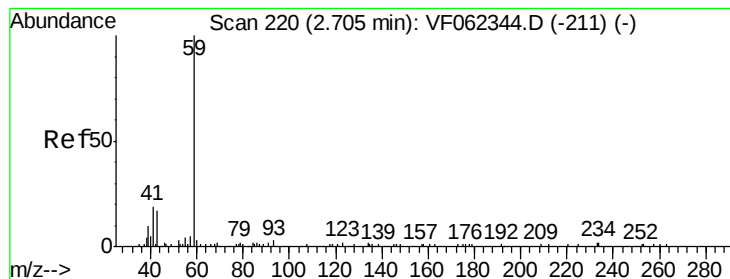
200

100

0

Time--> 1.35 1.40 1.45



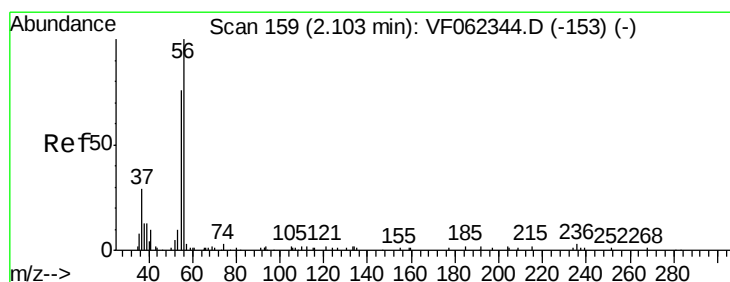
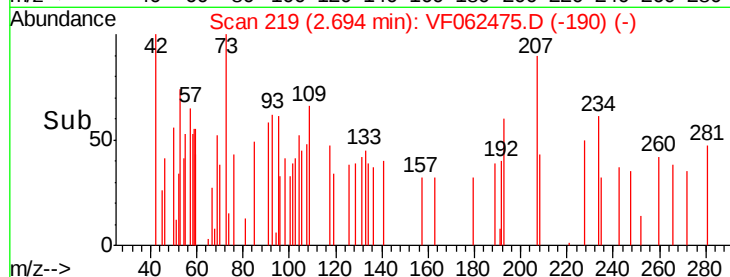
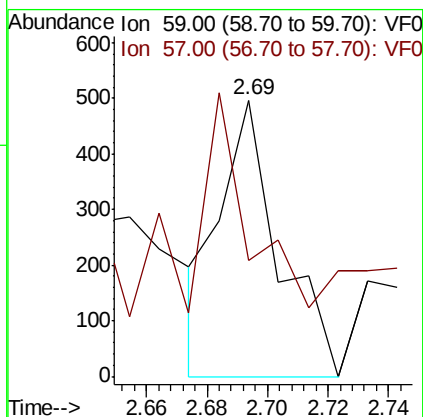
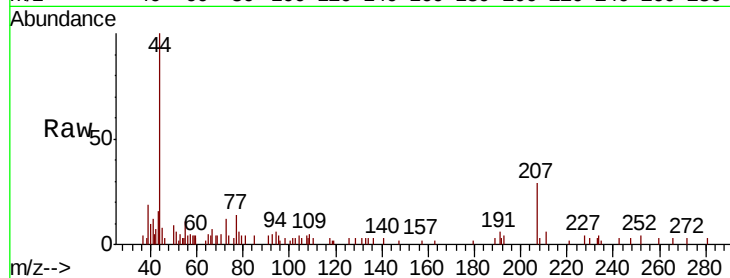


#11

Tert butyl alcohol
 Concen: 4.145 ug/l
 RT: 2.69 min Scan# 219
 Delta R.T. -0.01 min
 Lab File: VF062475.D
 Acq: 11 May 2019 23:39

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0511SBL02

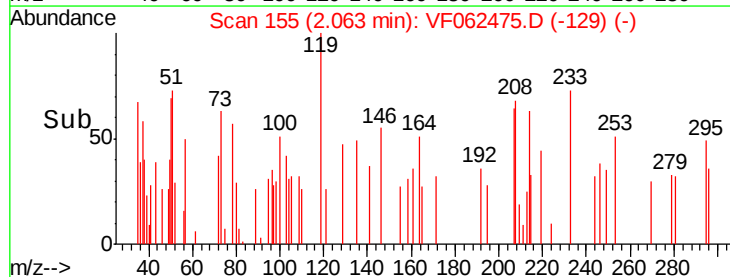
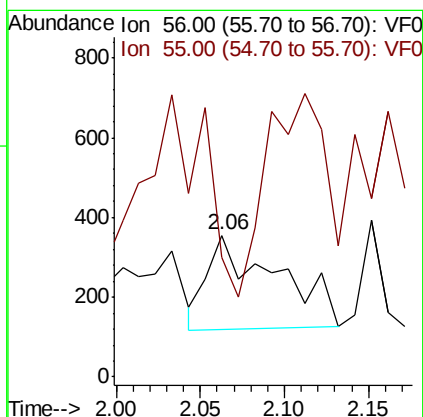
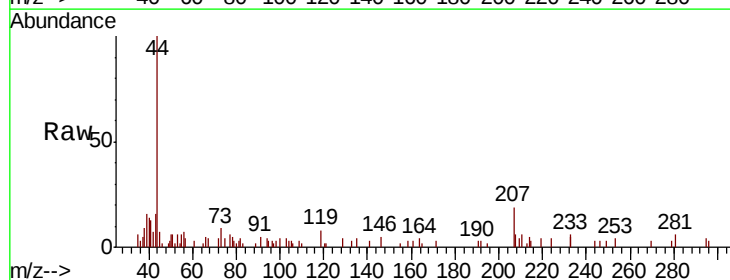
Tot Ion: 59 Resp: 667
 Ion Ratio Lower Upper
 59 100
 57 85.9 9.3 13.9#

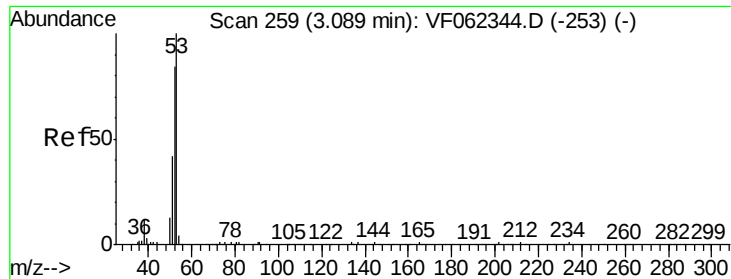


#13

Acrolein
 Concen: Below Cal
 RT: 2.06 min Scan# 155
 Delta R.T. -0.04 min
 Lab File: VF062475.D
 Acq: 11 May 2019 23:39

Tgt Ion: 56 Resp: 674
 Ion Ratio Lower Upper
 56 100
 55 0.0 58.4 87.6#





#15

Acrylonitrile

Concen: 4.229 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF062475.D

Acq: 11 May 2019 23:39

Instrument :

MSVOA_F

ClientSampleID :

VF0511SBL02

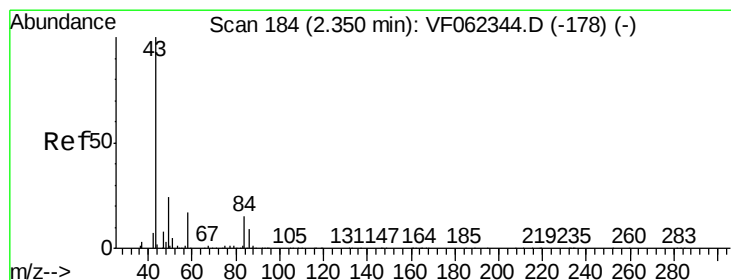
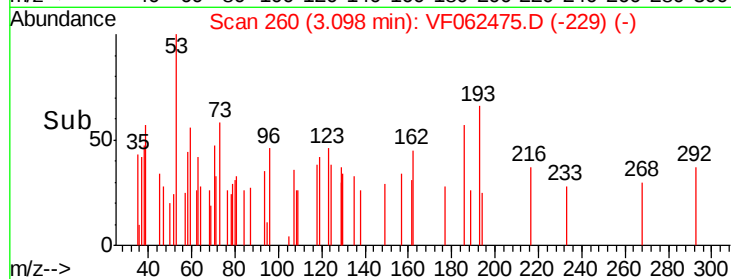
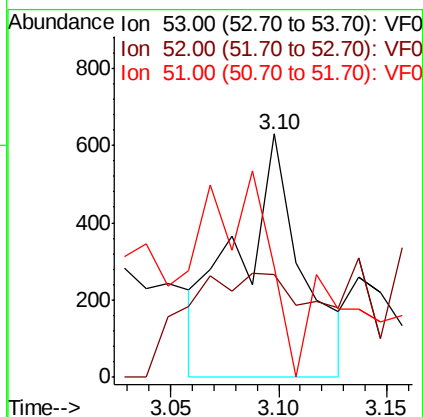
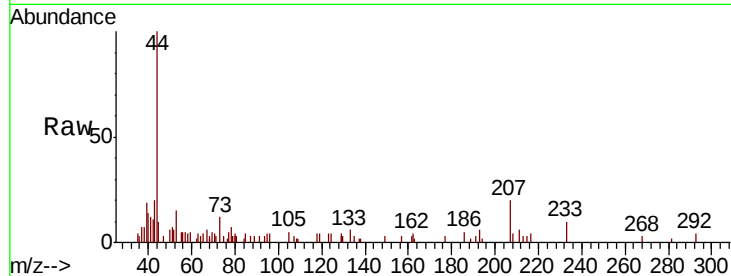
Tot Ion: 53 Resp: 1289

Ion Ratio Lower Upper

53 100

52 88.1 77.2 115.8

51 88.3 40.6 61.0#



#16

Acetone

Concen: 4.758 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062475.D

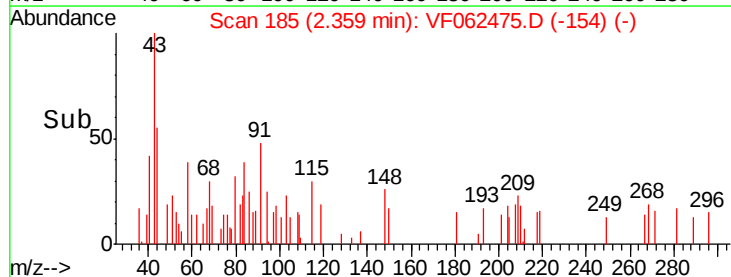
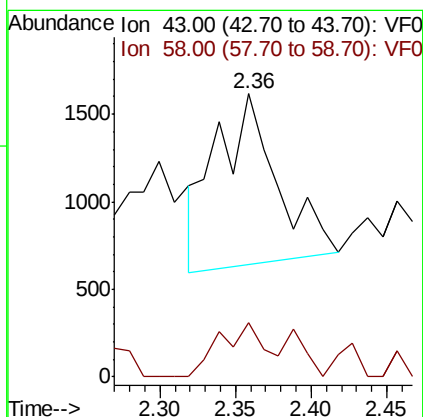
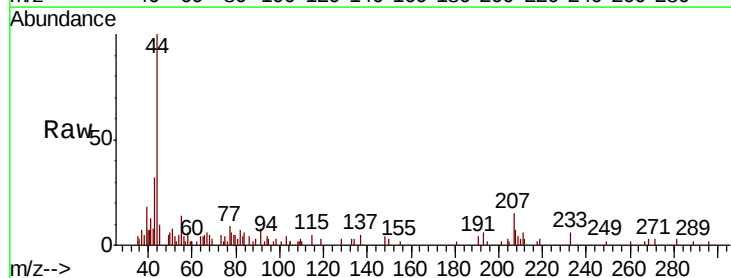
Acq: 11 May 2019 23:39

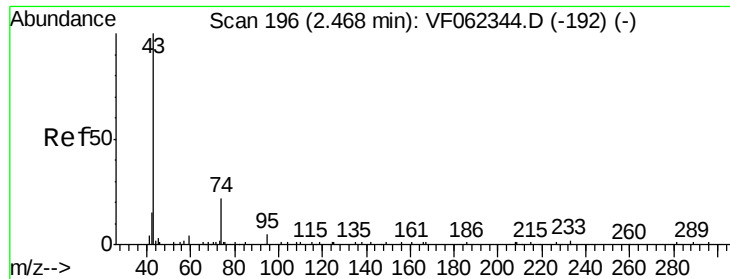
Tgt Ion: 43 Resp: 2740

Ion Ratio Lower Upper

43 100

58 34.7 13.1 19.7#

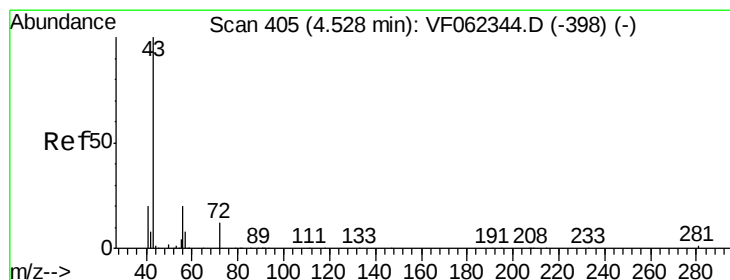
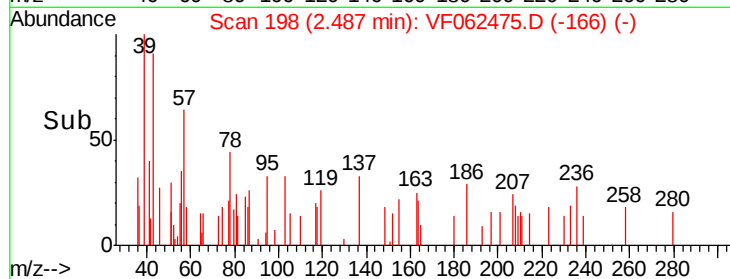
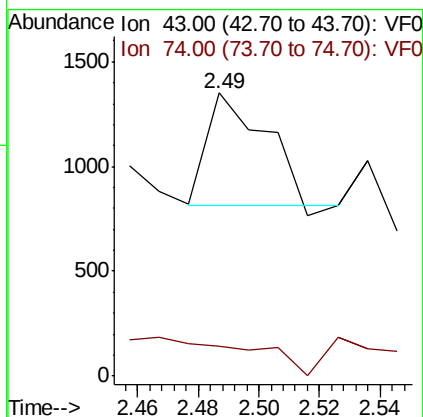
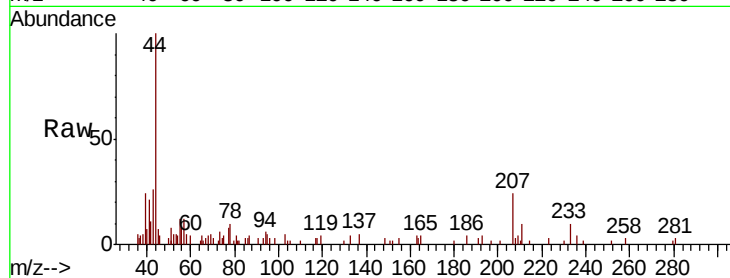




#18
Methyl Acetate
Concen: Below Cal
RT: 2.49 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF062475.D
Acq: 11 May 2019 23:39

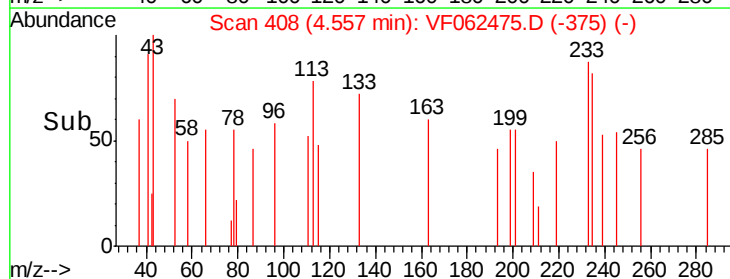
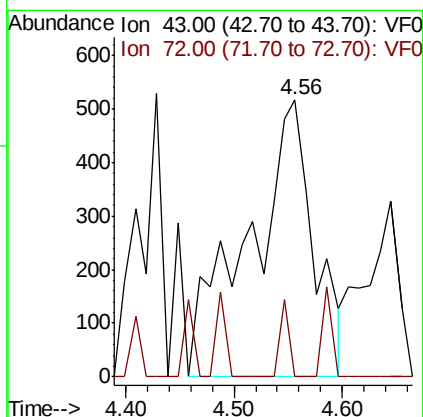
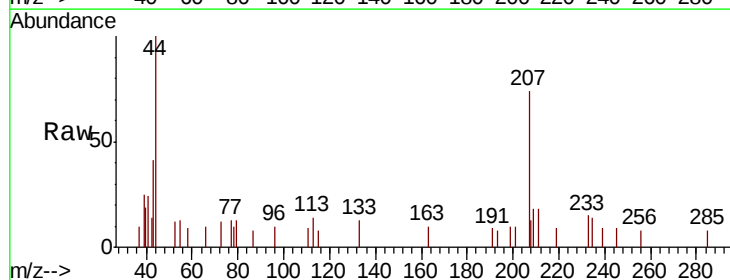
Instrument :
MSVOA_F
ClientSampleId :
VF0511SBL02

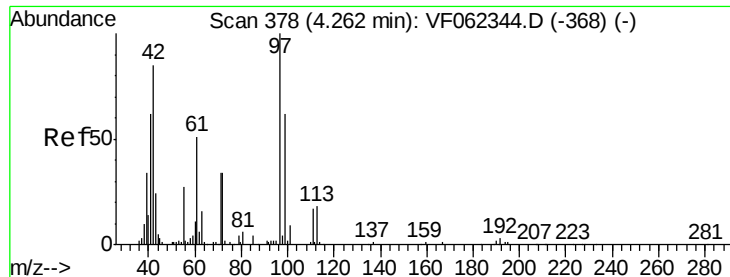
Tot Ion: 43 Resp: 701
Ion Ratio Lower Upper
43 100
74 76.9 15.0 22.4#



#25
2-Butanone
Concen: 3.007 ug/l
RT: 4.56 min Scan# 408
Delta R.T. 0.03 min
Lab File: VF062475.D
Acq: 11 May 2019 23:39

Tgt Ion: 43 Resp: 2176
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 4.024 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062475.D

Acq: 11 May 2019 23:39

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBL02

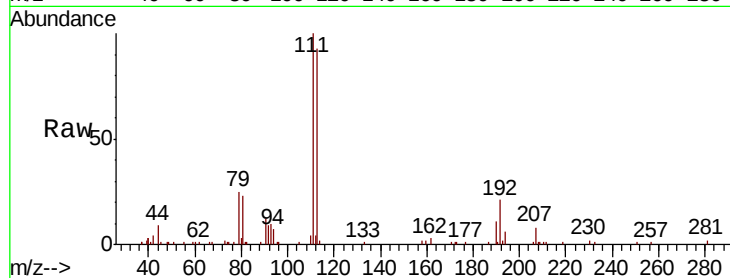
Tot Ion: 42 Resp: 1338

Ion Ratio Lower Upper

42 100

72 21.4 31.4 47.0#

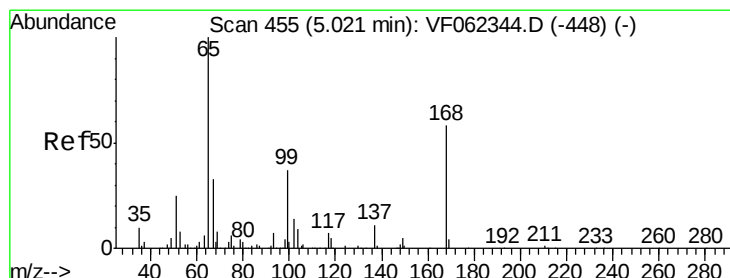
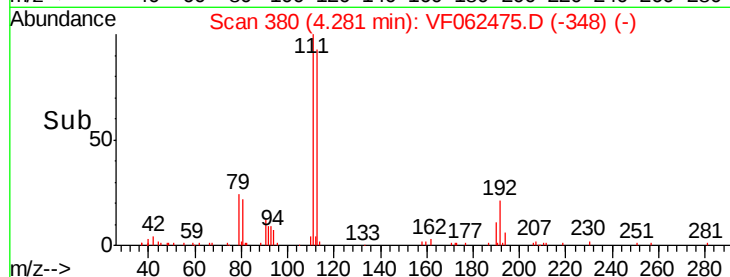
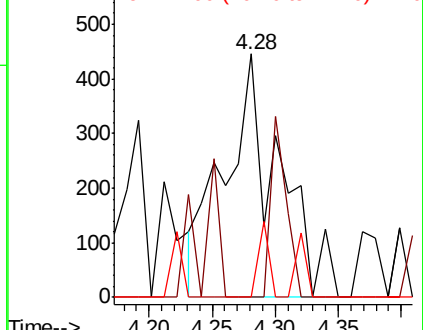
71 6.2 31.7 47.5#



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: 45.091 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062475.D

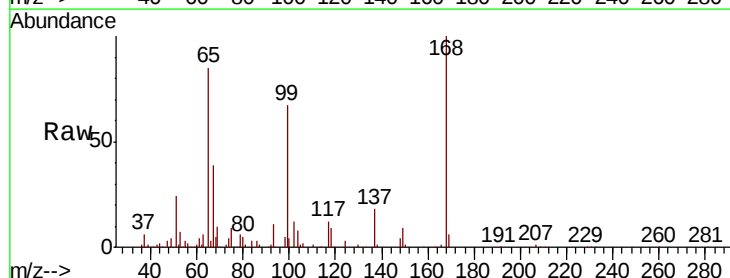
Acq: 11 May 2019 23:39

Tgt Ion: 65 Resp: 128371

Ion Ratio Lower Upper

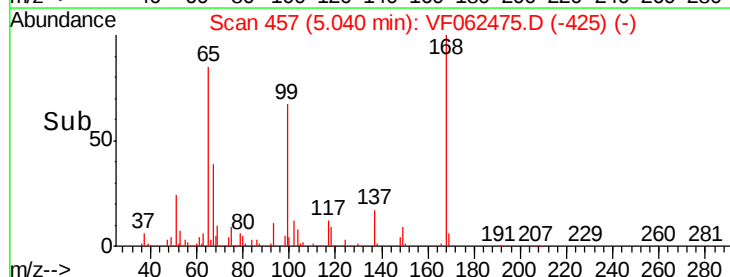
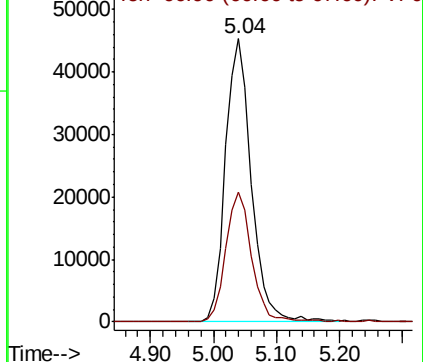
65 100

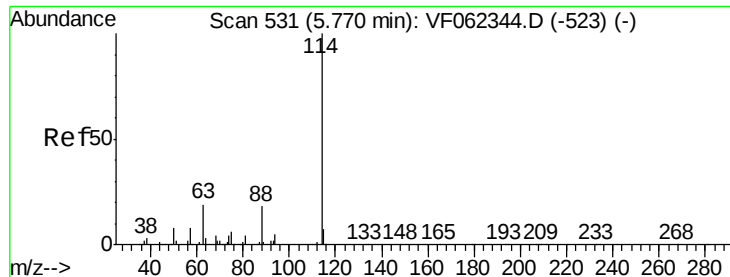
67 46.1 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

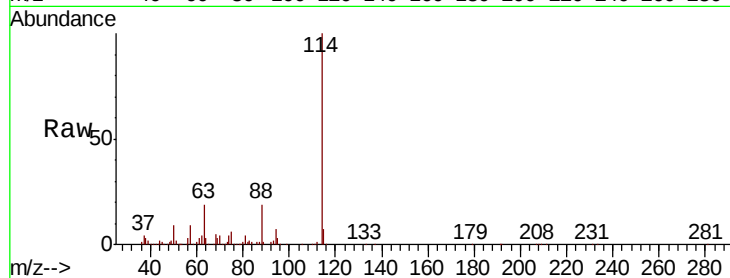




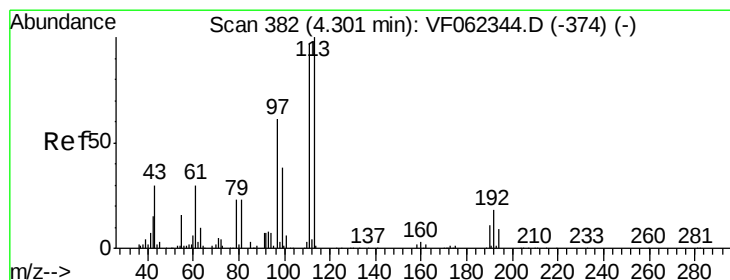
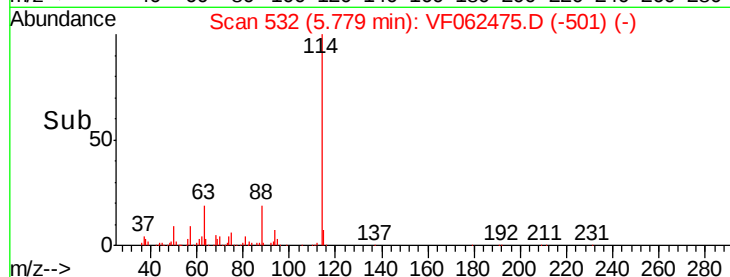
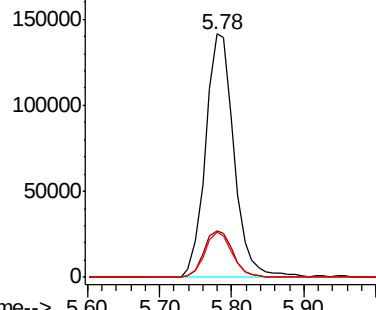
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.78 min Scan# 532
Delta R.T. 0.01 min
Lab File: VF062475.D
Acq: 11 May 2019 23:39

Instrument :
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VF0511SBL02

Tot Ion:	114	Resp:	390110
Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	37.4
88	18.5	0.0	36.4

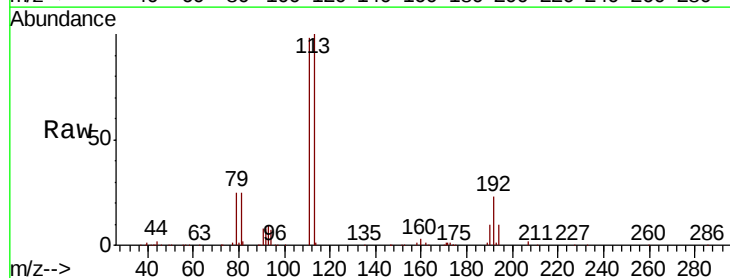


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 87.90 (87.60 to 88.60): VF0

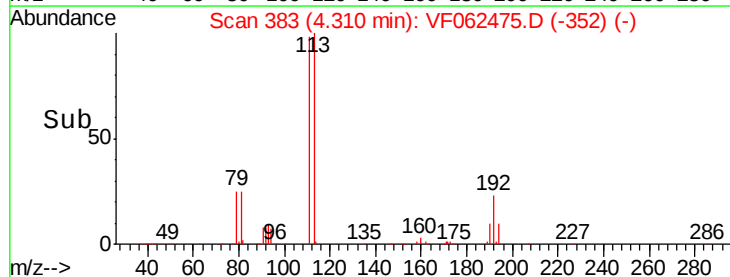
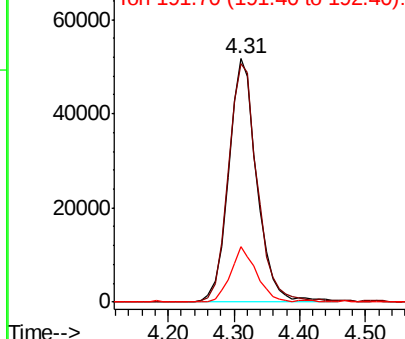


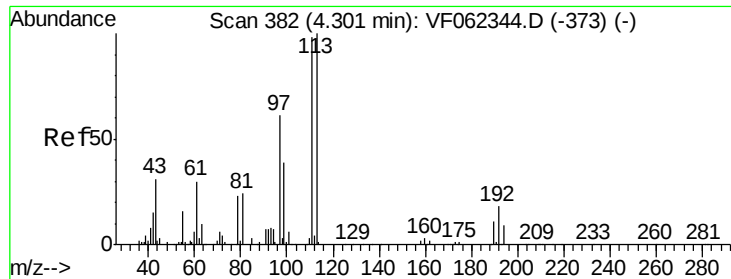
#35
Dibromofluoromethane
Concen: 49.826 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062475.D
Acq: 11 May 2019 23:39

Tgt Ion:	113	Resp:	154855
Ion	Ratio	Lower	Upper
113	100		
111	100.9	79.4	119.0
192	20.9	16.0	24.0



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

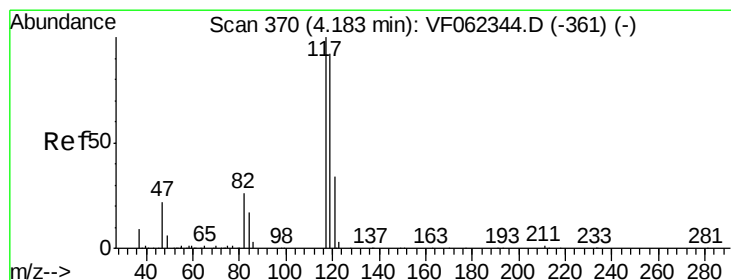
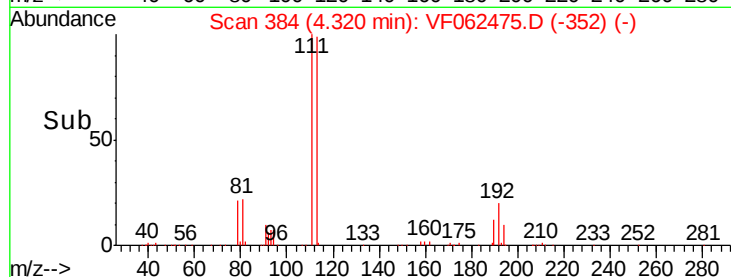
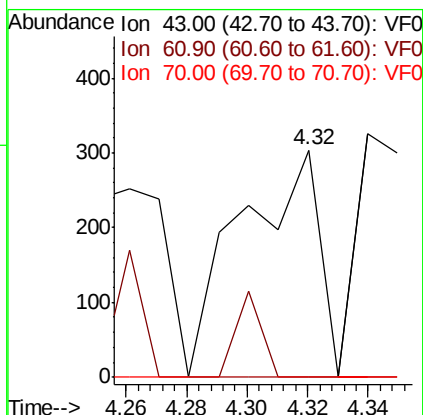
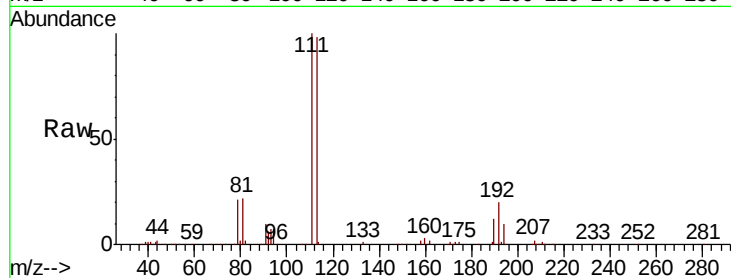




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 384
Delta R.T. 0.02 min
Lab File: VF062475.D
Acq: 11 May 2019 23:39

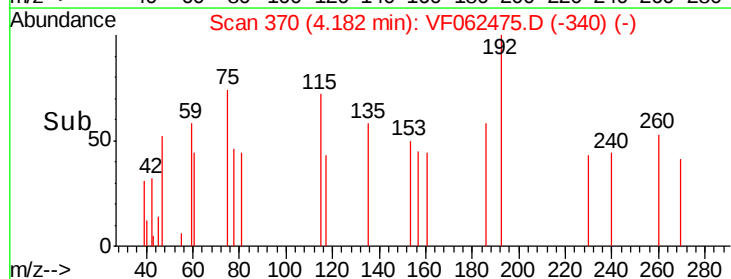
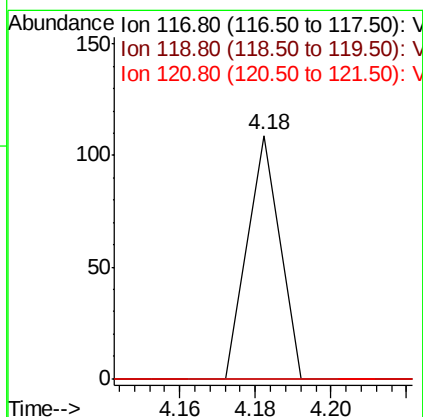
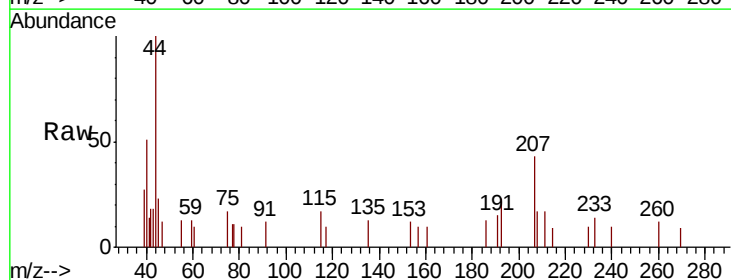
Instrument :
MSVOA_F
ClientSampleId :
VF0511SBL02

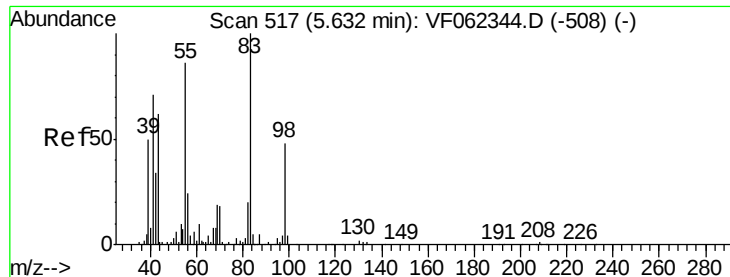
Tot Ion: 43 Resp: 547
Ion Ratio Lower Upper
43 100
61 12.4 0.0 0.0#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.18 min Scan# 370
Delta R.T. -0.00 min
Lab File: VF062475.D
Acq: 11 May 2019 23:39

Tgt Ion: 117 Resp: 64
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

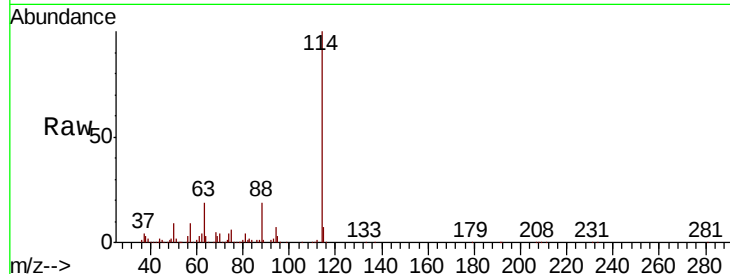




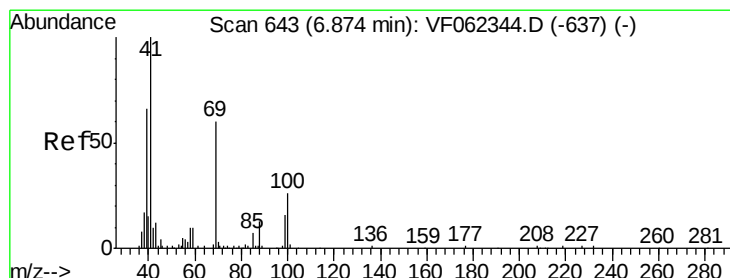
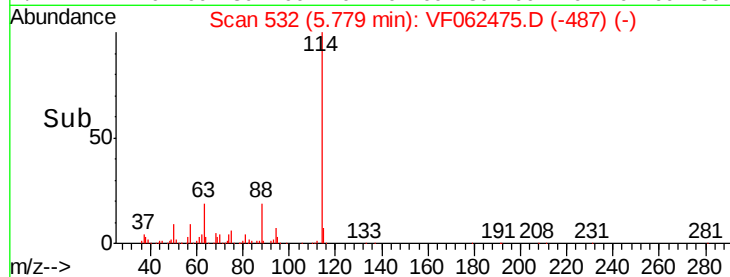
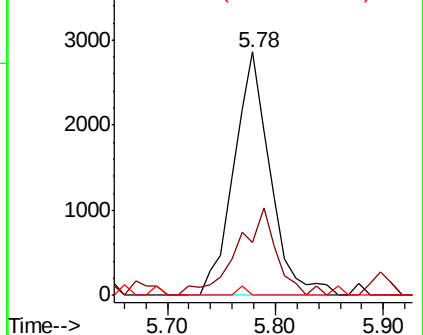
#39
Methylcyclohexane
Concen: 1.988 ug/l
RT: 5.78 min Scan# 532
Delta R.T. 0.15 min
Lab File: VF062475.D
Acq: 11 May 2019 23:39

Instrument :
MSVOA_F
ClientSampleId :
VF0511SBL02

Tot Ion	Ratio	Lower	Upper
83	100		
55	21.6	69.0	103.6#
98	0.0	38.6	58.0#

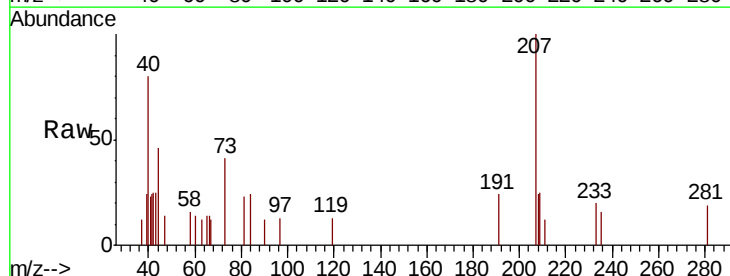


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

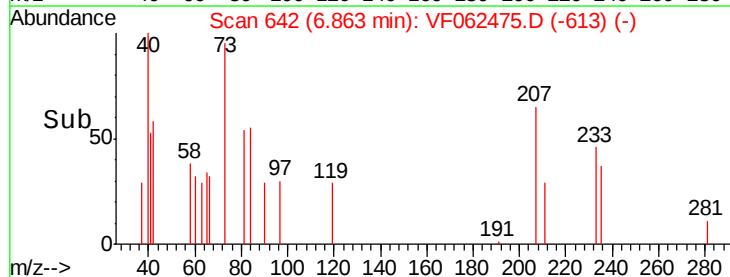
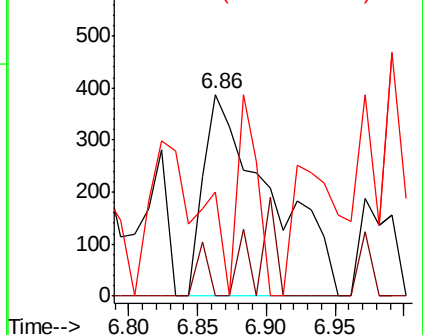


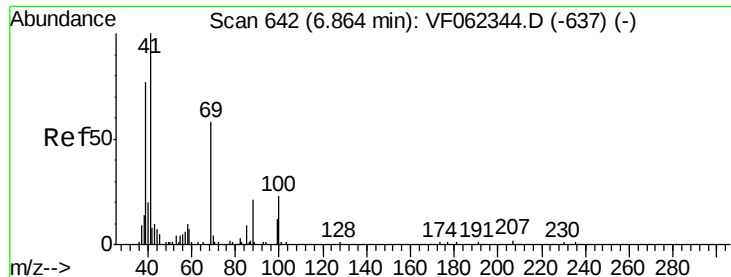
#48
Methyl methacrylate
Concen: 1.217 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF062475.D
Acq: 11 May 2019 23:39

Tgt Ion	Ratio	Lower	Upper
41	100		
69	4.7	48.6	72.8#
39	0.0	56.1	84.1#



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.87 min Scan# 643

Delta R.T. 0.01 min

Lab File: VF062475.D

Acq: 11 May 2019 23:39

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBL02

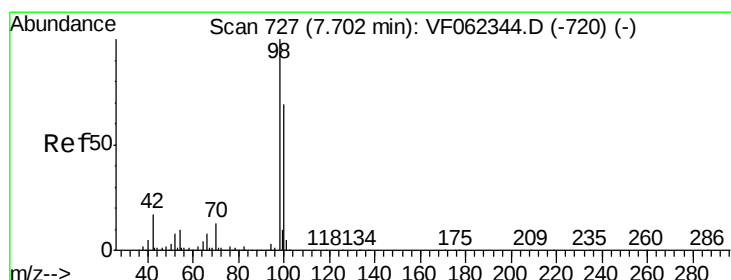
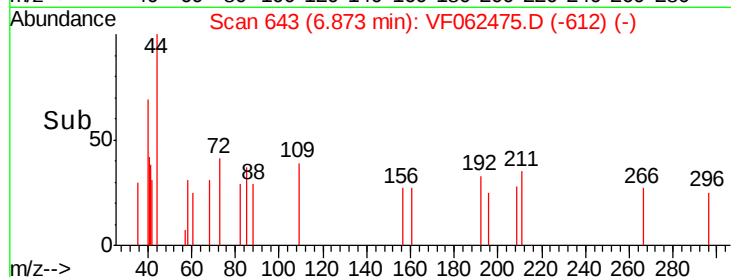
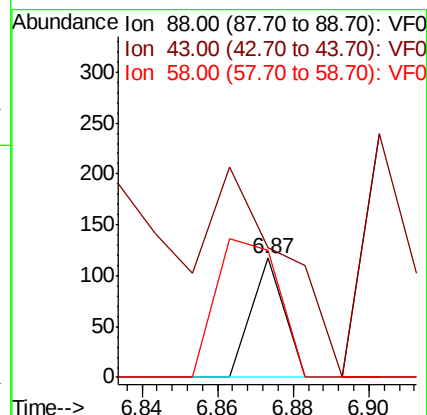
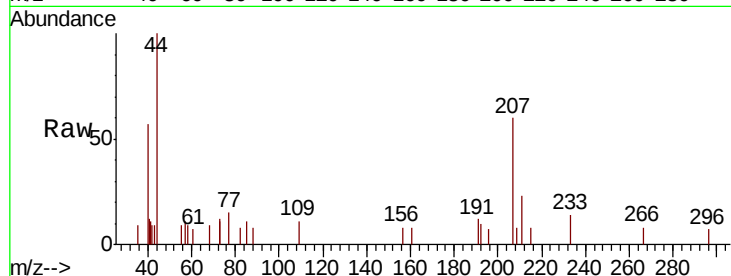
Tot Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 0.0 55.6 83.4#

58 223.2 52.8 79.2#



#50

Toluene-d8

Concen: 43.020 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.02 min

Lab File: VF062475.D

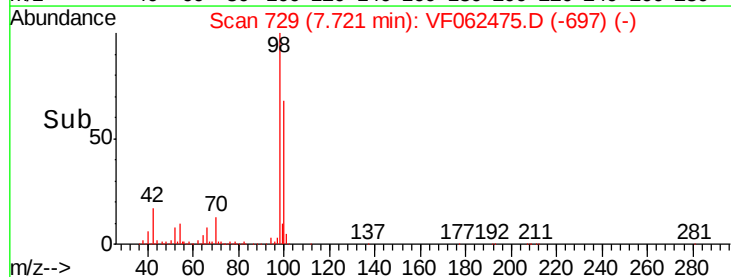
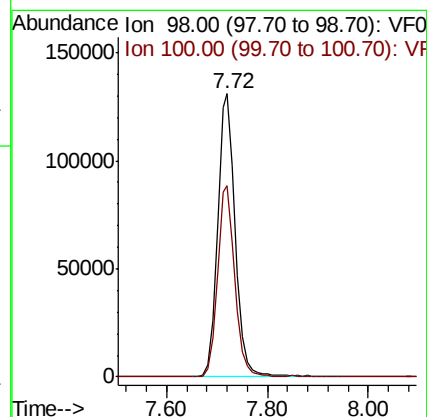
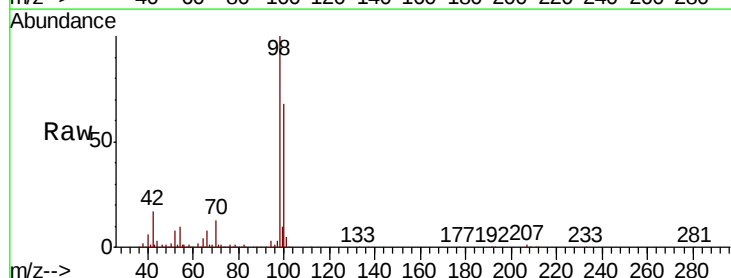
Acq: 11 May 2019 23:39

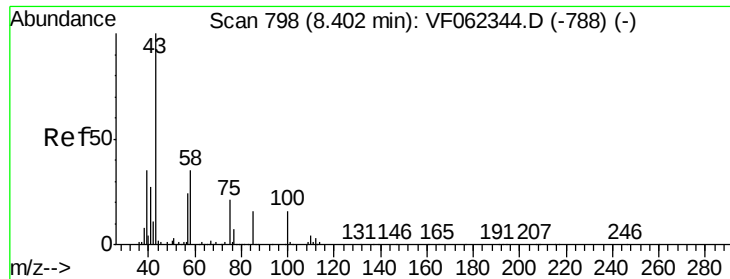
Tgt Ion: 98 Resp: 323647

Ion Ratio Lower Upper

98 100

100 66.0 53.3 79.9





#51

4-Methyl-2-Pentanone

Concen: 1.638 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF062475.D

Acq: 11 May 2019 23:39

Instrument :

MSVOA_F

ClientSampleId :

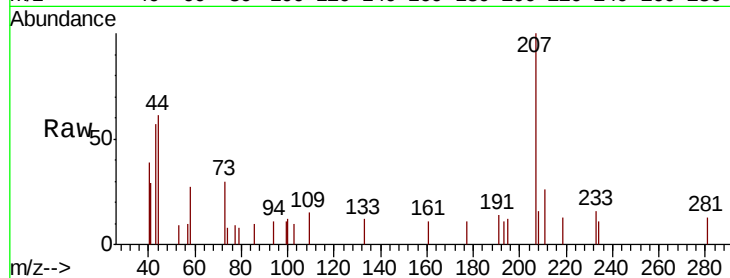
VF0511SBL02

Tot Ion: 43 Resp: 1892

Ion Ratio Lower Upper

43 100

58 15.1 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

600

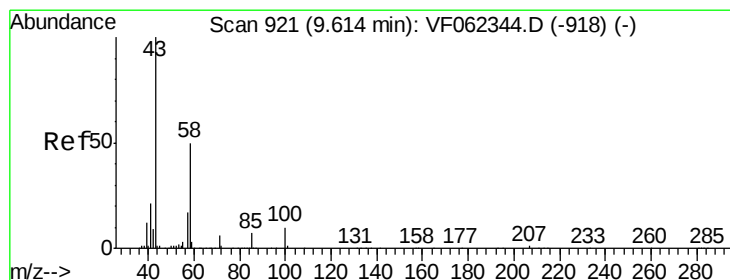
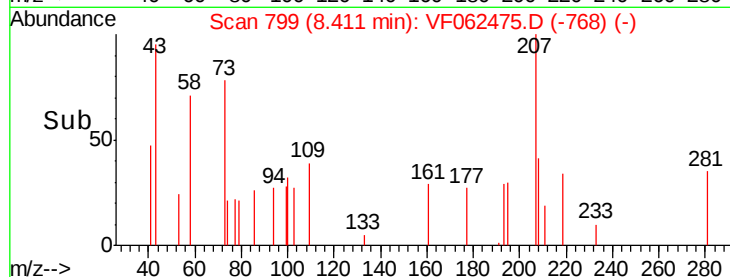
400

200

0

8.35 8.40 8.45 8.50

Time-->



#59

2-Hexanone

Concen: 3.859 ug/l

RT: 9.62 min Scan# 922

Delta R.T. 0.01 min

Lab File: VF062475.D

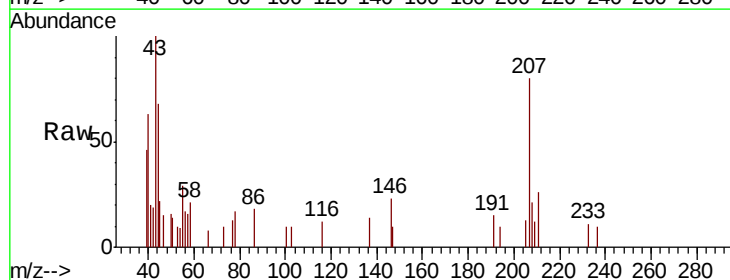
Acq: 11 May 2019 23:39

Tgt Ion: 43 Resp: 3083

Ion Ratio Lower Upper

43 100

58 33.3 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.62

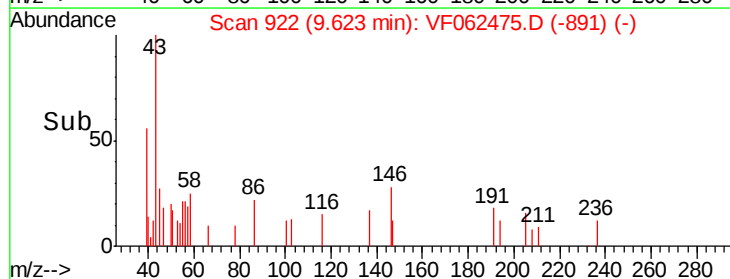
1000

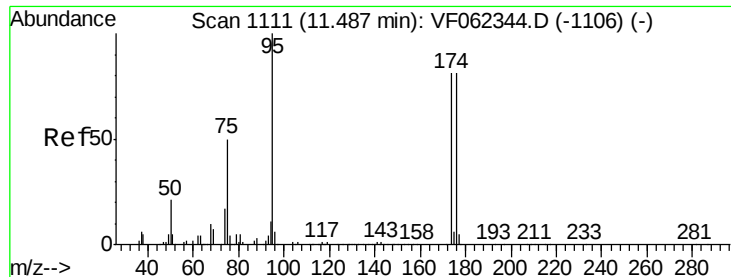
500

0

9.60 9.65 9.70

Time-->





#62

4-Bromofluorobenzene

Concen: 45.167 ug/l

RT: 11.50 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062475.D

Acq: 11 May 2019 23:39

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBL02

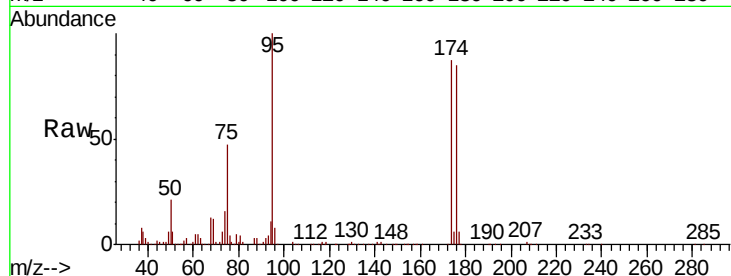
Tot Ion: 95 Resp: 153305

Ion Ratio Lower Upper

95 100

174 102.0 0.0 191.8

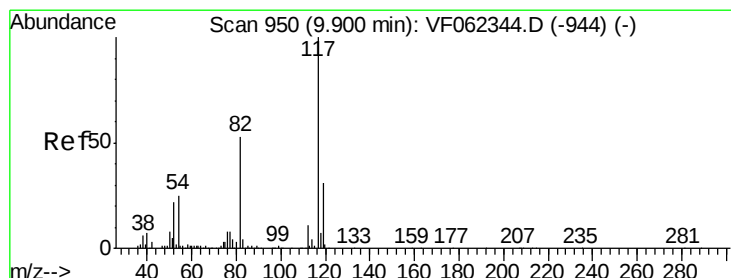
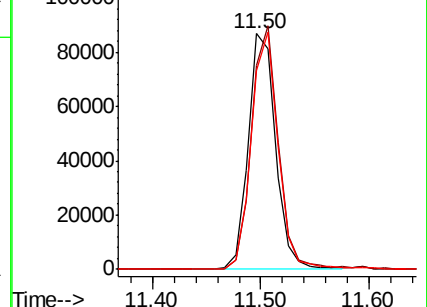
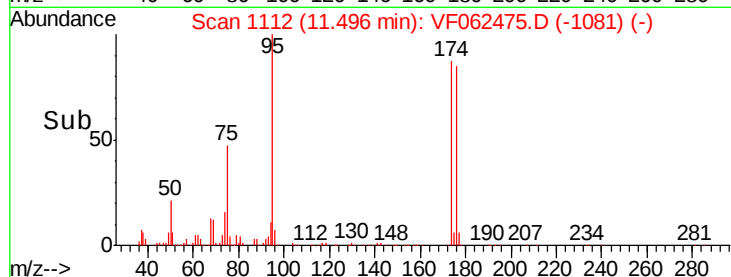
176 99.2 0.0 193.2



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: VF062475.D

Acq: 11 May 2019 23:39

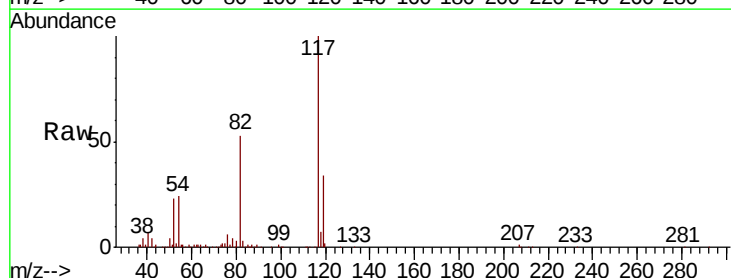
Tgt Ion: 117 Resp: 349841

Ion Ratio Lower Upper

117 100

82 52.5 42.2 63.2

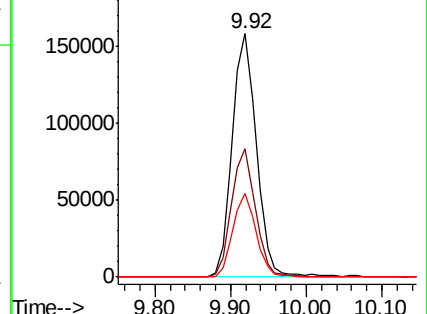
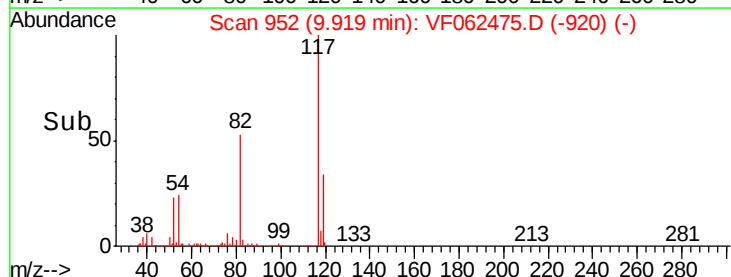
119 34.5 25.0 37.4

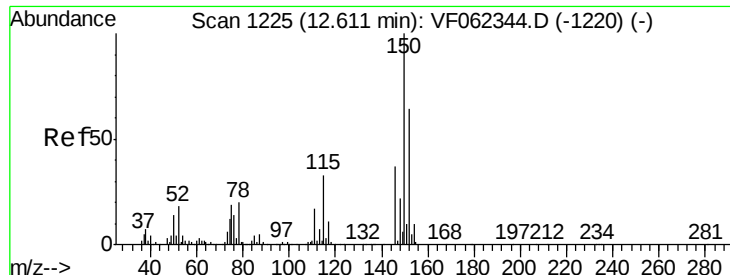


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062475.D

Acq: 11 May 2019 23:39

Instrument :

MSVOA_F

ClientSampleId :

VF0511SBL02

Tot Ion:152 Resp: 235120

Ion Ratio Lower Upper

152 100

115 53.9 26.4 79.2

150 153.3 0.0 335.0

