

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051019\
 Data File : VF062438.D
 Acq On : 11 May 2019 00:54
 Operator : FY/SY
 Sample : K2729-04
 Misc : 4.99g/5mL/MSVOA F/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 B-5

Quant Time: May 11 05:40:20 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	385244	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	514690	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	407538	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	230585	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	213922	58.76	ug/l	0.02
Spiked Amount			Recovery	=	117.52%	
35) Dibromofluoromethane	4.32	113	247659	60.40	ug/l	0.01
Spiked Amount			Recovery	=	120.80%	
50) Toluene-d8	7.72	98	493619	49.73	ug/l	0.01
Spiked Amount			Recovery	=	99.46%	
62) 4-Bromofluorobenzene	11.50	95	217754	48.63	ug/l	0.01
Spiked Amount			Recovery	=	97.26%	

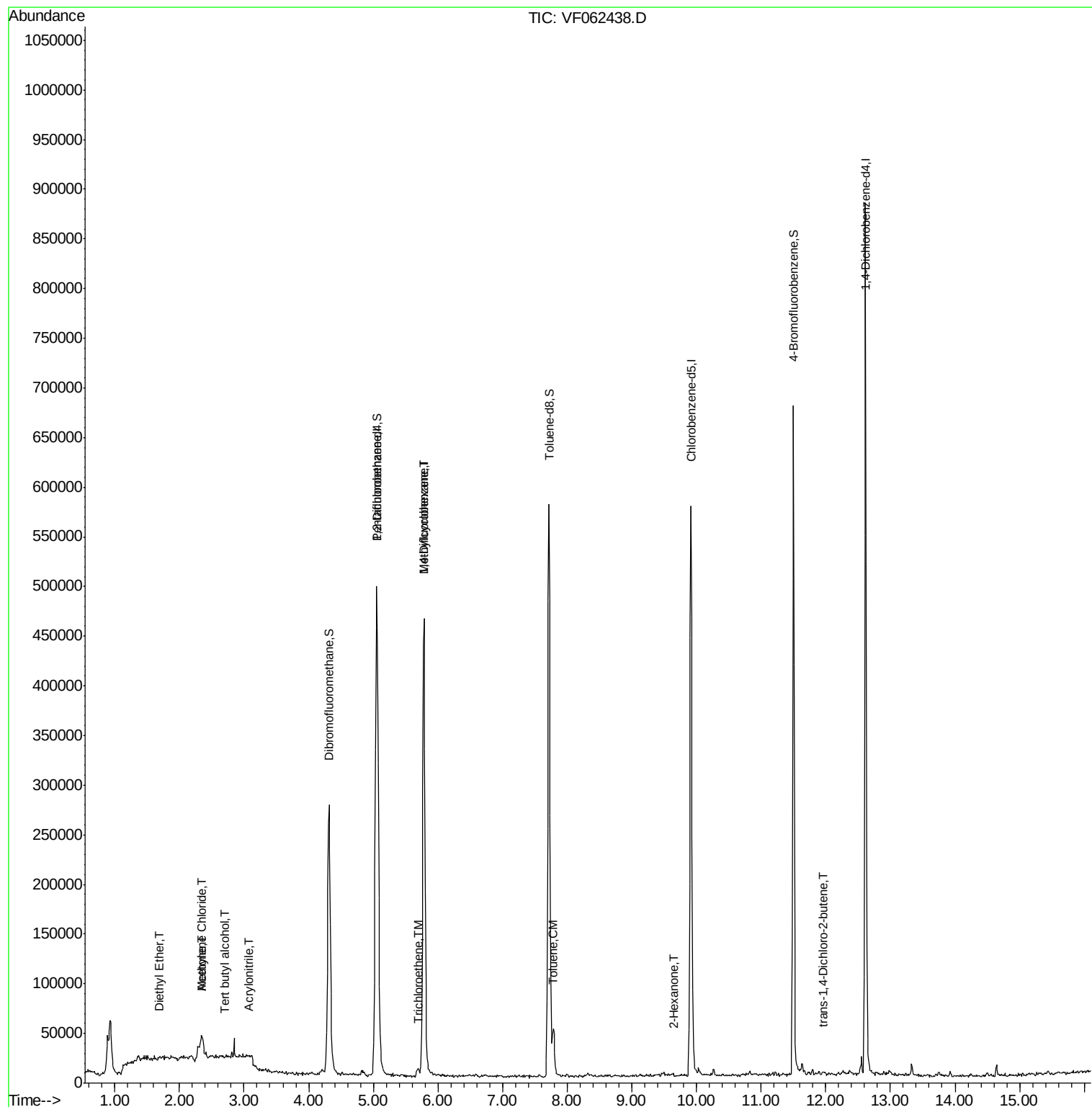
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.43	94	397	Below Cal	#	28
8) Diethyl Ether	1.70	74	955	1.037	ug/l	51
11) Tert butyl alcohol	2.70	59	822	3.995	ug/l #	1
13) Acrolein	2.16	56	659	Below Cal	#	62
15) Acrylonitrile	3.08	53	759	1.947	ug/l #	10
16) Acetone	2.35	43	13171	17.883	ug/l	99
18) Methyl Acetate	2.49	43	2741	Below Cal	#	77
20) Methylene Chloride	2.33	84	11721	4.399	ug/l	95
37) Ethyl Acetate	4.34	43	300	Below Cal	#	44
38) Carbon Tetrachloride	4.19	117	61	Below Cal	#	14
39) Methylcyclohexane	5.77	83	7820	1.764	ug/l #	30
44) Trichloroethene	5.69	130	3592	1.004	ug/l	93
49) 1,4-Dioxane	6.96	88	66	Below Cal	#	16
52) Toluene	7.79	92	22038	3.669	ug/l	95
59) 2-Hexanone	9.64	43	1884	1.788	ug/l #	56
81) trans-1,4-Dichloro-2-buten	11.96	75	713	1.162	ug/l #	5

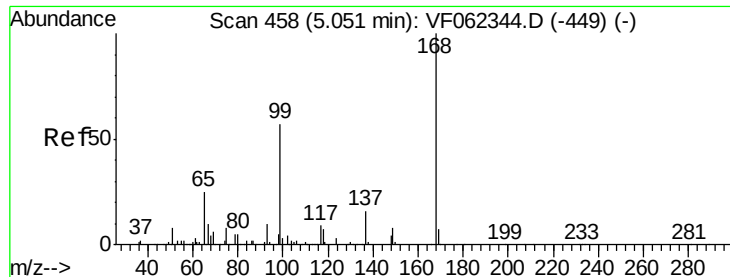
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062438.D

Acq: 11 May 2019 00:54

Instrument :

MSVOA_F

ClientSampleId :

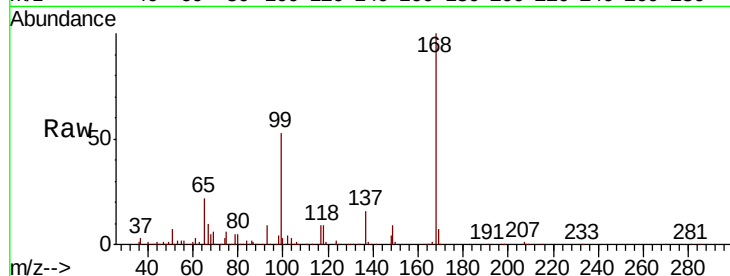
B-5

Tot Ion:168 Resp: 385244

Ion Ratio Lower Upper

168 100

99 52.9 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

150000

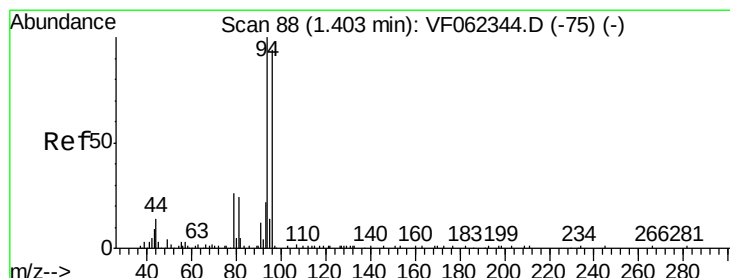
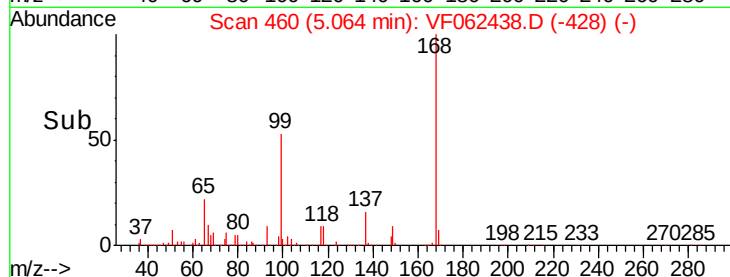
100000

50000

0

4.90 5.00 5.10 5.20 5.30

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.02 min

Lab File: VF062438.D

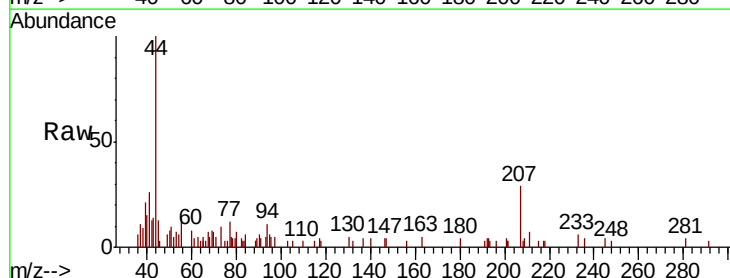
Acq: 11 May 2019 00:54

Tgt Ion: 94 Resp: 397

Ion Ratio Lower Upper

94 100

96 25.1 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

500

400

300

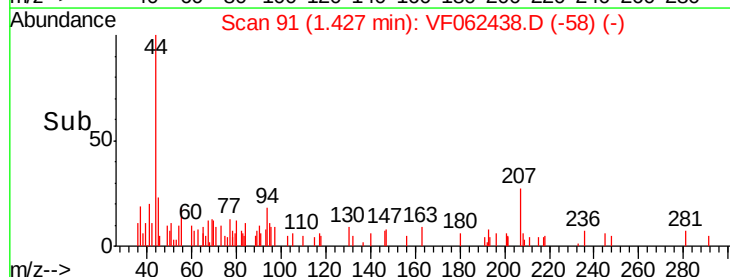
200

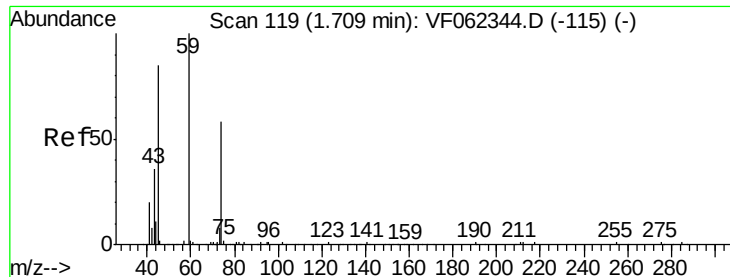
100

0

1.40 1.45

Time-->





#8

Diethyl Ether

Concen: 1.037 ug/l

RT: 1.70 min Scan# 119

Delta R.T. -0.01 min

Lab File: VF062438.D

Acq: 11 May 2019 00:54

Instrument :

MSVOA_F

ClientSampleId :

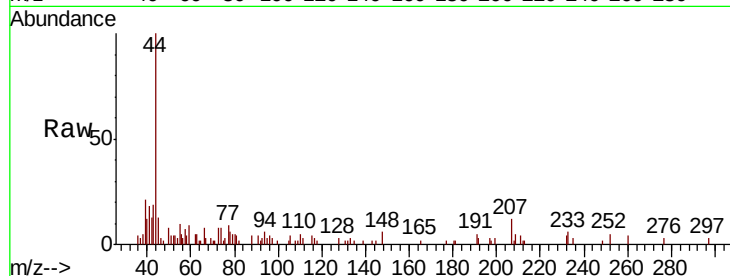
B-5

Tot Ion: 74 Resp: 955

Ion Ratio Lower Upper

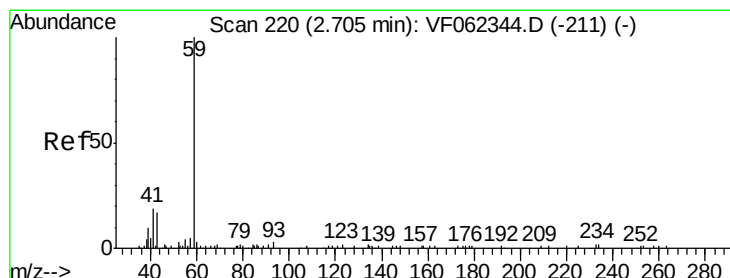
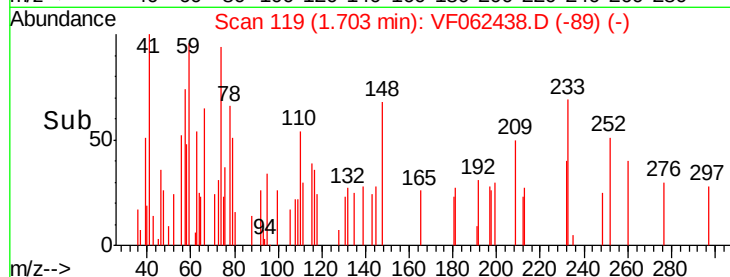
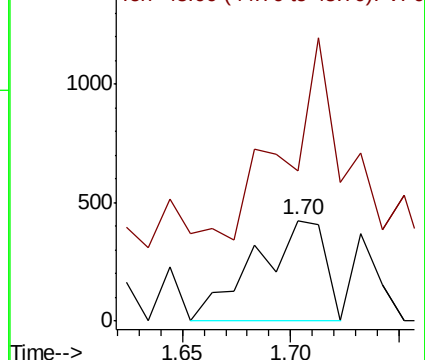
74 100

45 209.5 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: 3.995 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF062438.D

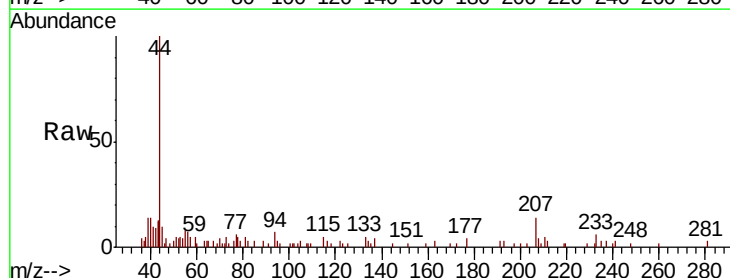
Acq: 11 May 2019 00:54

Tgt Ion: 59 Resp: 822

Ion Ratio Lower Upper

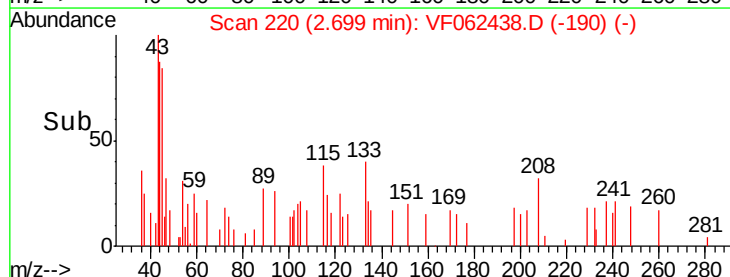
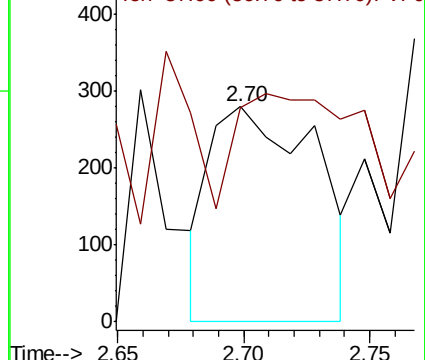
59 100

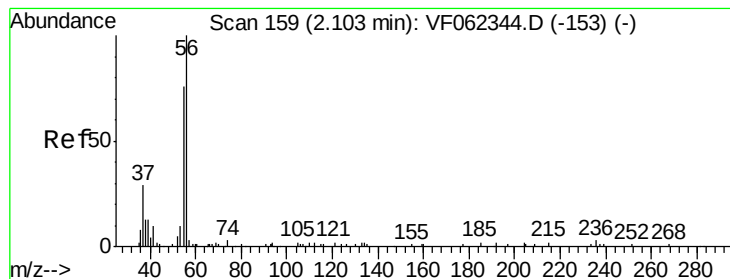
57 59.2 9.3 13.9#



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: 2.16 min Scan# 165

Delta R.T. 0.05 min

Lab File: VF062438.D

Acq: 11 May 2019 00:54

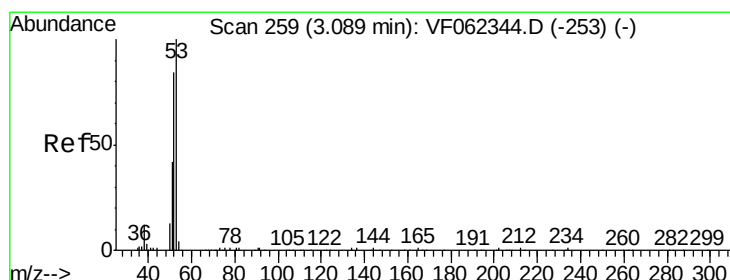
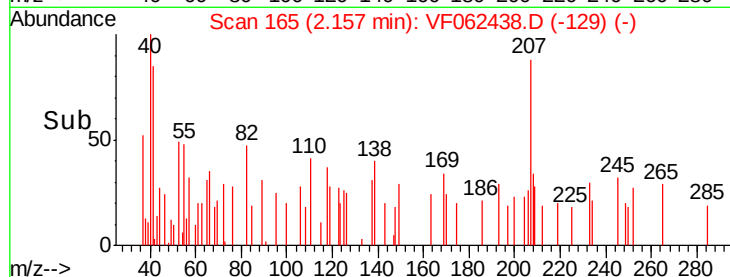
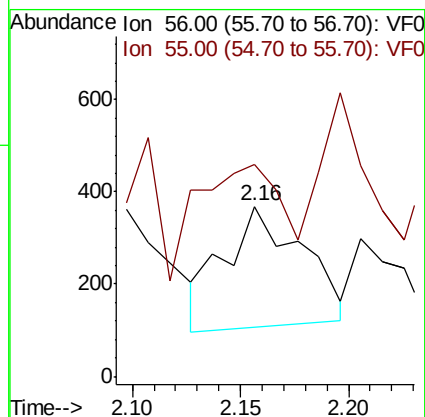
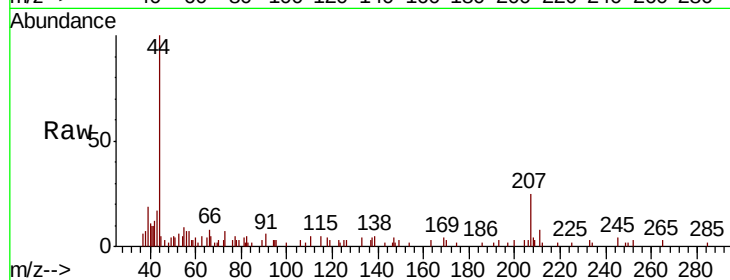
Instrument :
MSVOA_F
ClientSampleId :
B-5

Tot Ion: 56 Resp: 659

Ion Ratio Lower Upper

56 100

55 105.3 58.4 87.6#



#15

Acrylonitrile

Concen: 1.947 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062438.D

Acq: 11 May 2019 00:54

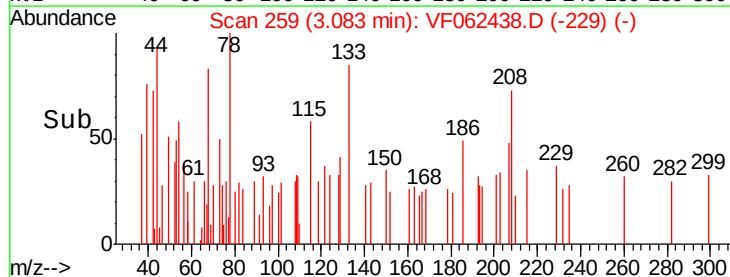
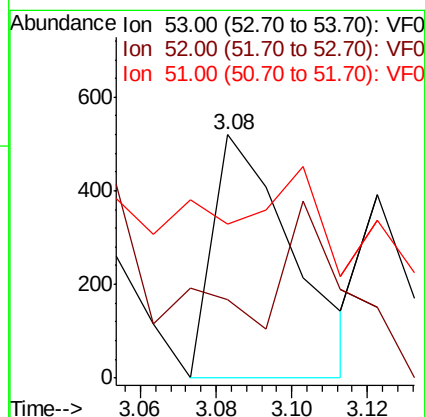
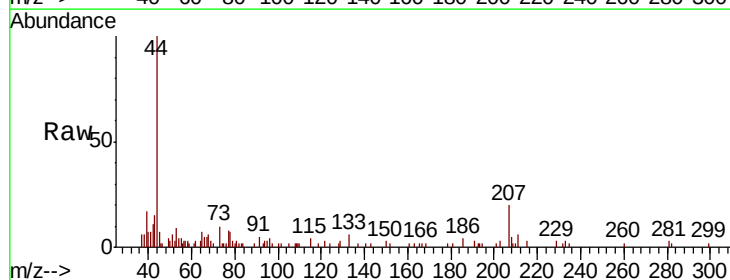
Tgt Ion: 53 Resp: 759

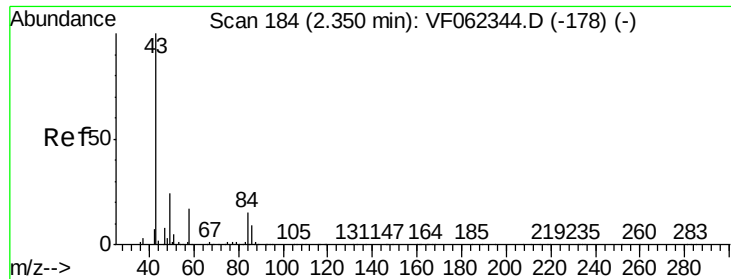
Ion Ratio Lower Upper

53 100

52 0.0 77.2 115.8#

51 0.0 40.6 61.0#





#16

Acetone

Concen: 17.883 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062438.D

Acq: 11 May 2019 00:54

Instrument :

MSVOA_F

ClientSampleId :

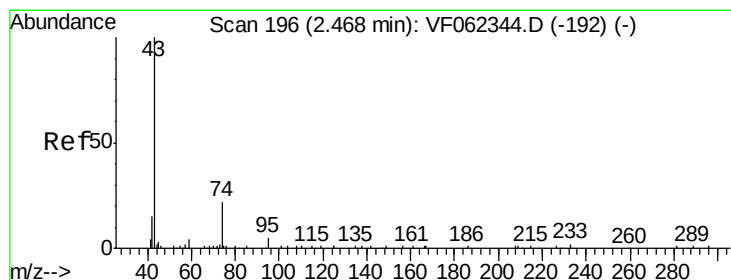
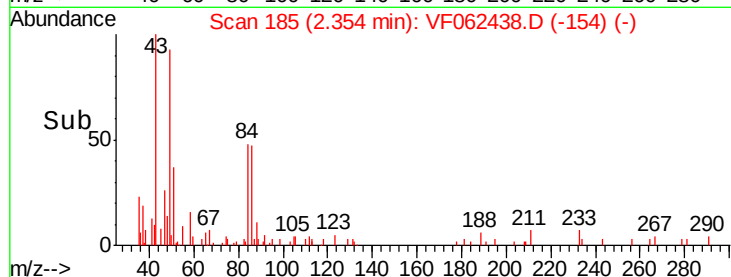
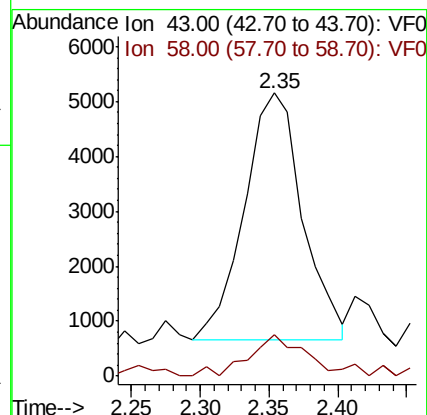
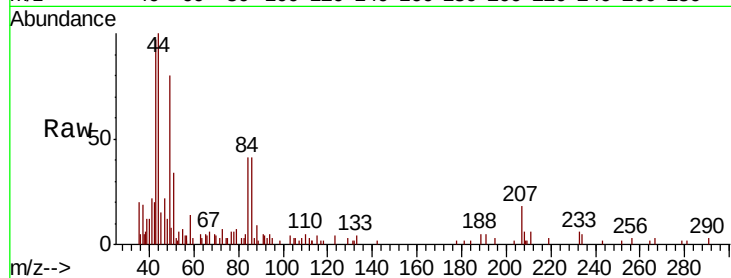
B-5

Tot Ion: 43 Resp: 13171

Ion Ratio Lower Upper

43 100

58 16.7 13.1 19.7



#18

Methyl Acetate

Concen: Below Cal

RT: 2.49 min Scan# 199

Delta R.T. 0.02 min

Lab File: VF062438.D

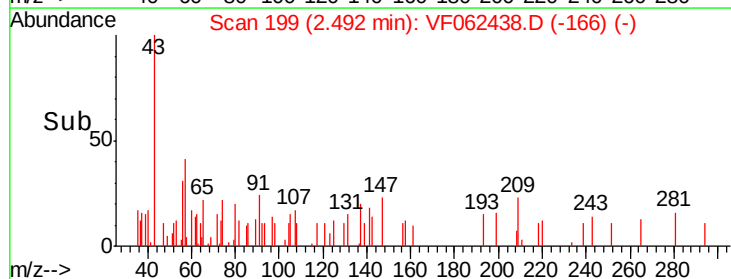
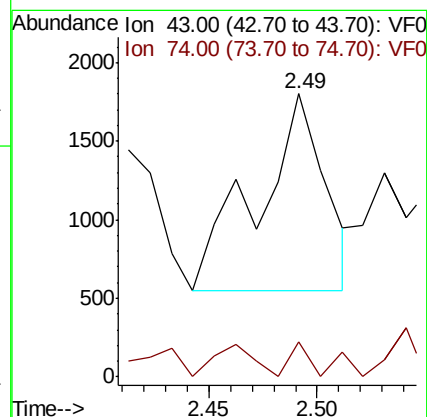
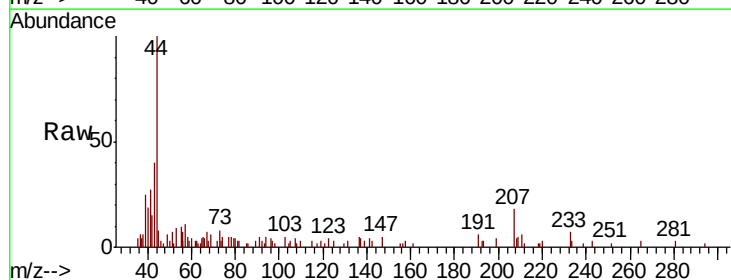
Acq: 11 May 2019 00:54

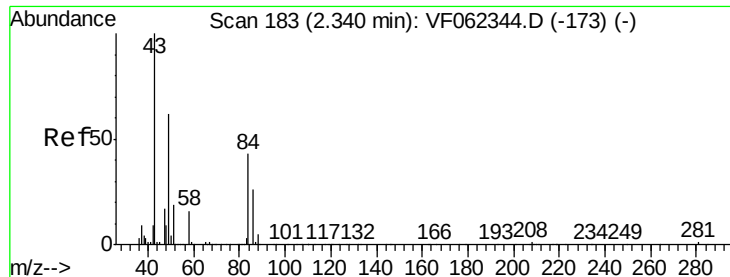
Tgt Ion: 43 Resp: 2741

Ion Ratio Lower Upper

43 100

74 8.2 15.0 22.4#

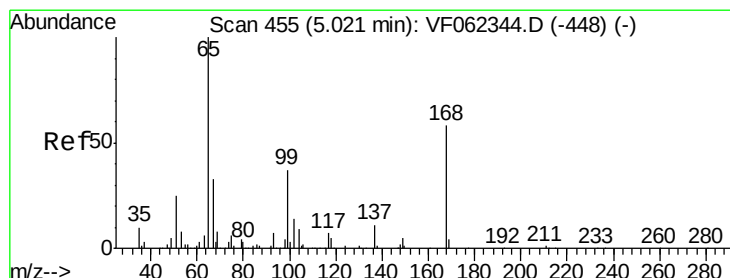
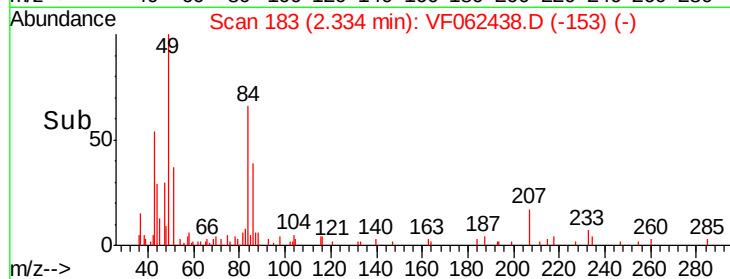
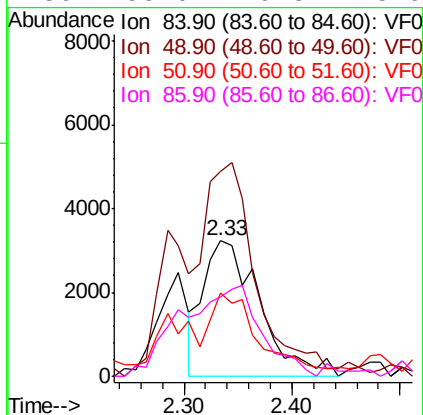
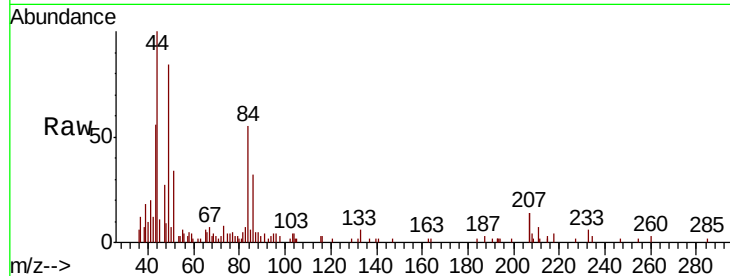




#20
Methylene Chloride
Concen: 4.399 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062438.D
Acq: 11 May 2019 00:54

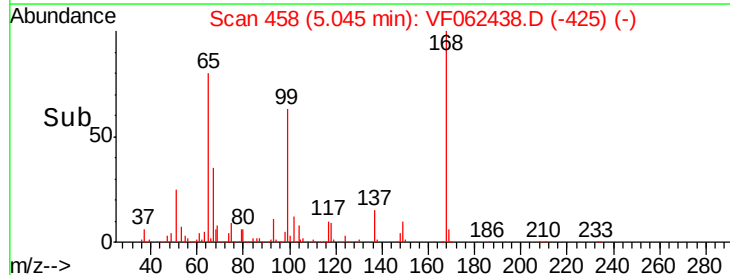
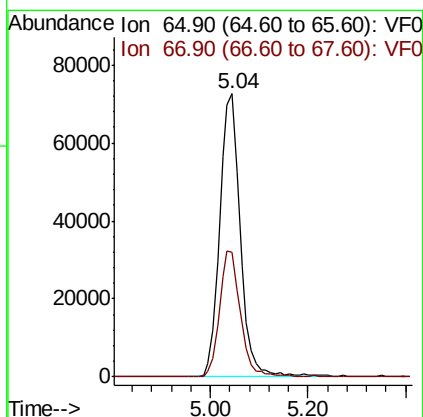
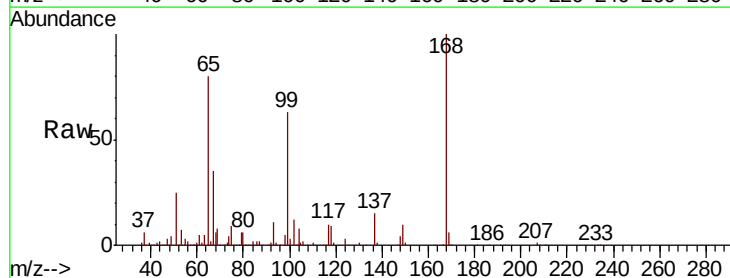
Instrument :
MSVOA_F
ClientSampleId :
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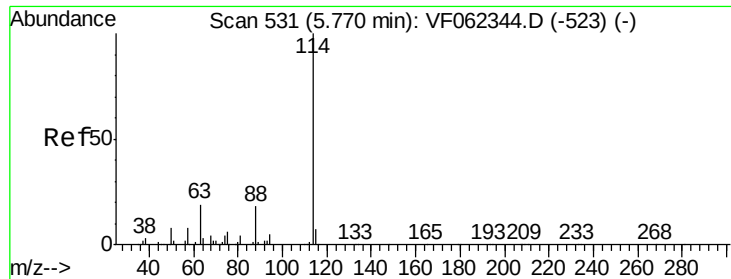
Tot Ion:	84	Resp:	11721
Ion	Ratio	Lower	Upper
84	100		
49	145.7	117.5	176.3
51	55.2	37.0	55.4
86	55.0	49.3	73.9



#33
1,2-Dichloroethane-d4
Concen: 58.758 ug/l
RT: 5.04 min Scan# 458
Delta R.T. 0.02 min
Lab File: VF062438.D
Acq: 11 May 2019 00:54

Tgt Ion:	65	Resp:	213922
Ion	Ratio	Lower	Upper
65	100		
67	45.0	0.0	85.8

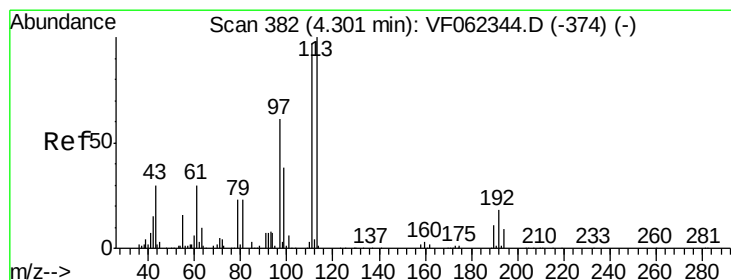
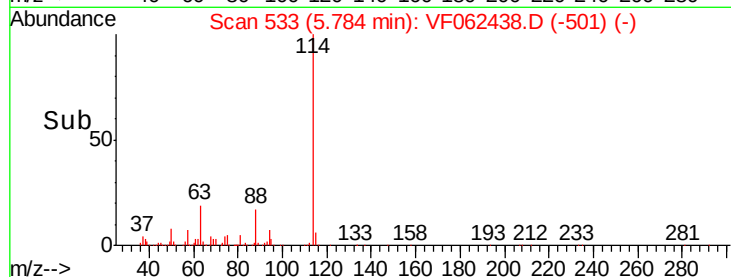
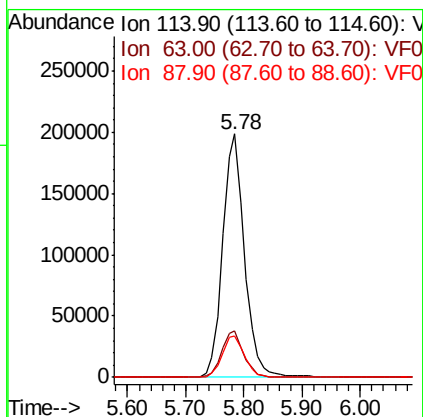
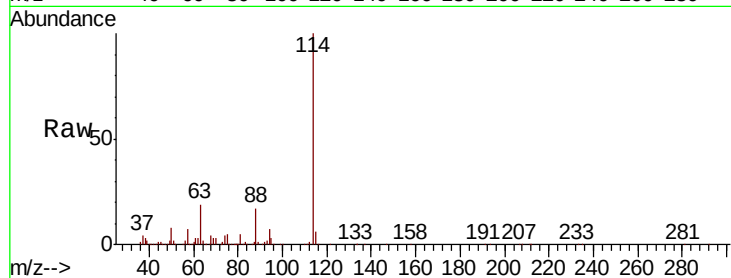




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.01 min
 Lab File: VF062438.D
 Acq: 11 May 2019 00:54

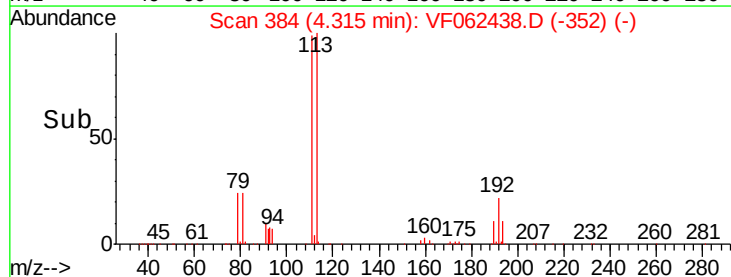
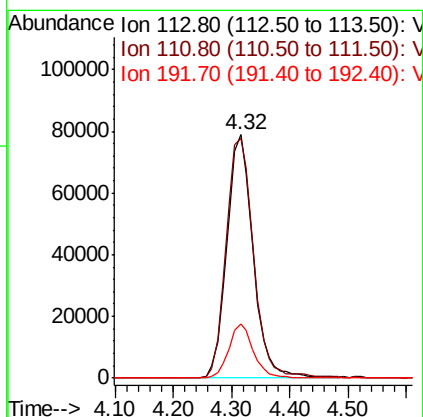
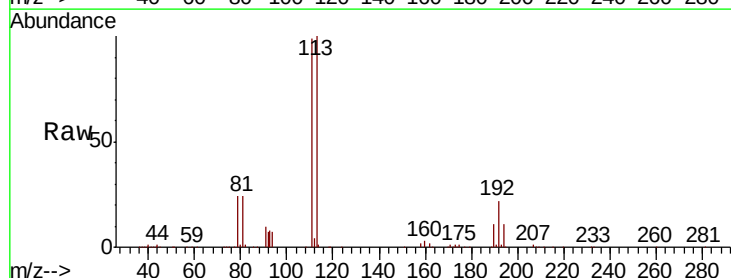
Instrument :
 MSVOA_F
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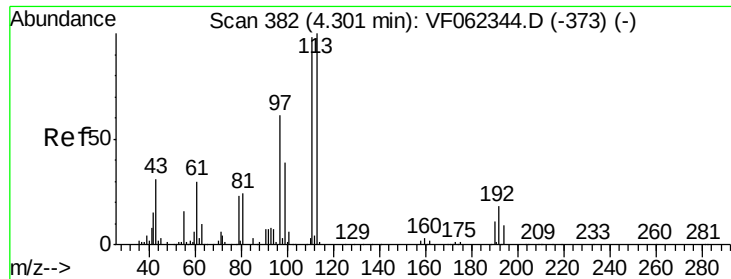
Tot Ion:114 Resp: 514690
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 37.4
 88 17.1 0.0 36.4



#35
 Dibromofluoromethane
 Concen: 60.398 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.01 min
 Lab File: VF062438.D
 Acq: 11 May 2019 00:54

Tgt Ion:113 Resp: 247659
 Ion Ratio Lower Upper
 113 100
 111 102.5 79.4 119.0
 192 21.4 16.0 24.0

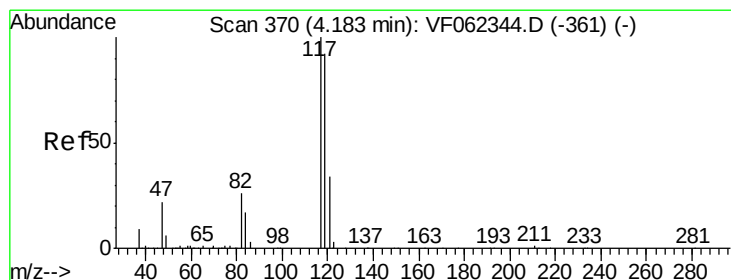
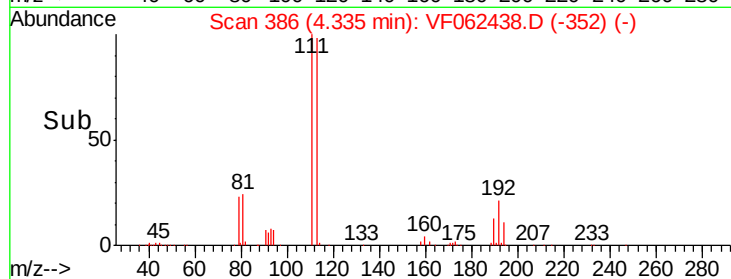
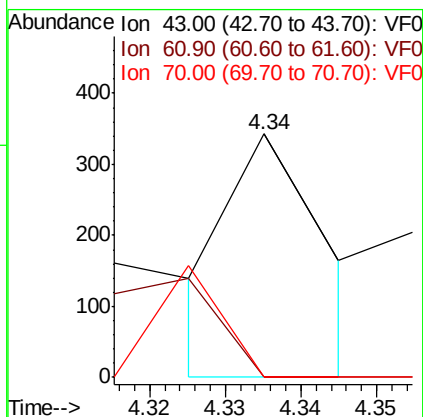
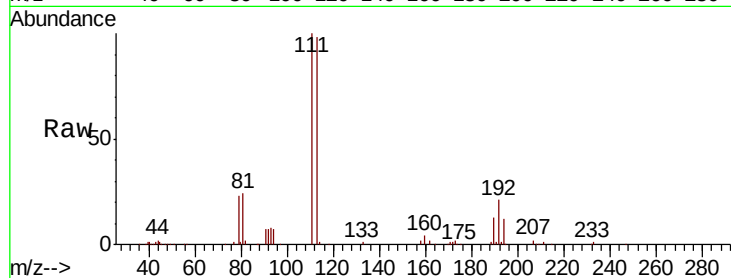




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 386
Delta R.T. 0.03 min
Lab File: VF062438.D
Acq: 11 May 2019 00:54

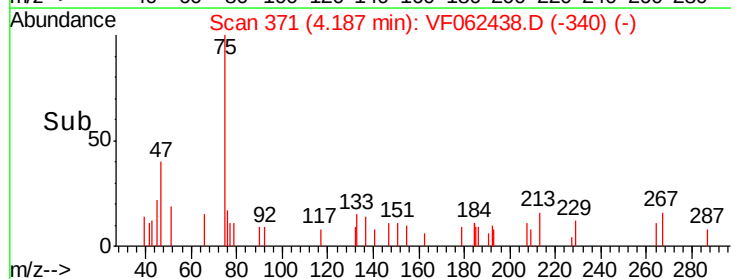
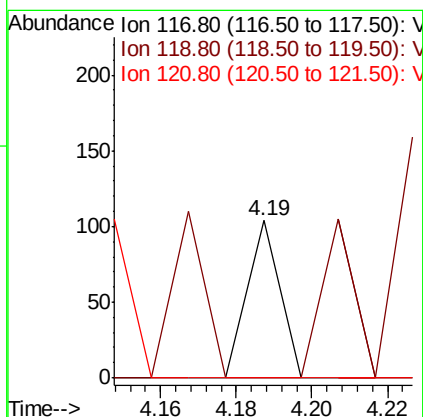
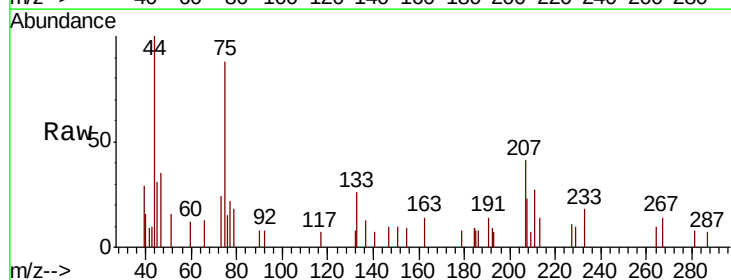
Instrument :
MSVOA_F
ClientSampled :
B-5

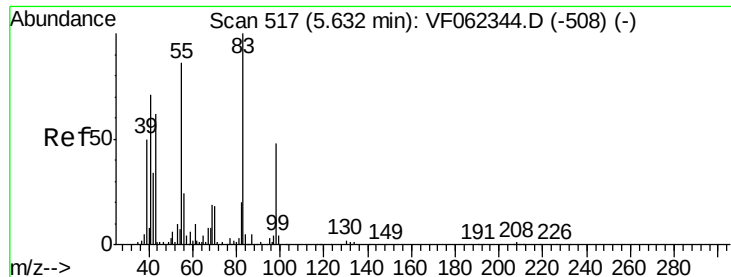
Tot Ion: 43 Resp: 300
Ion Ratio Lower Upper
43 100
61 94.0 0.0 0.0#
70 31.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.19 min Scan# 371
Delta R.T. 0.00 min
Lab File: VF062438.D
Acq: 11 May 2019 00:54

Tgt Ion: 117 Resp: 61
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

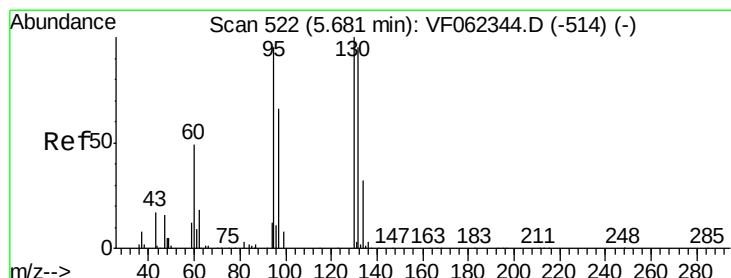
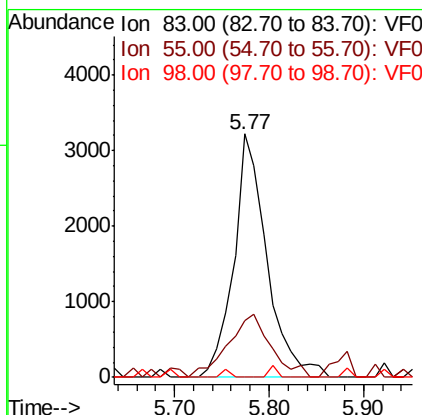
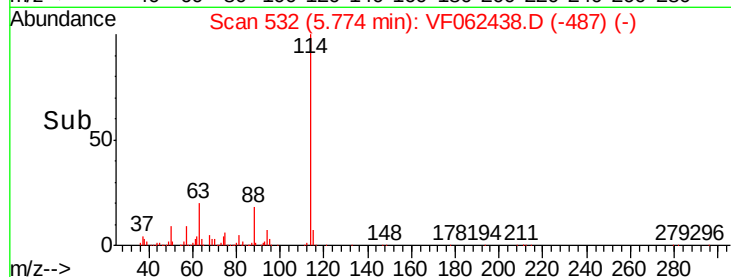
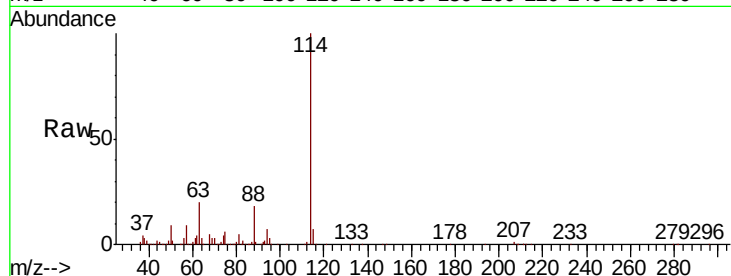




#39
Methylcyclohexane
Concen: 1.764 ug/l
RT: 5.77 min Scan# 532
Delta R.T. 0.14 min
Lab File: VF062438.D
Acq: 11 May 2019 00:54

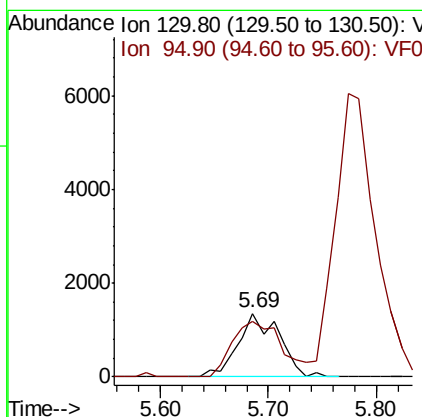
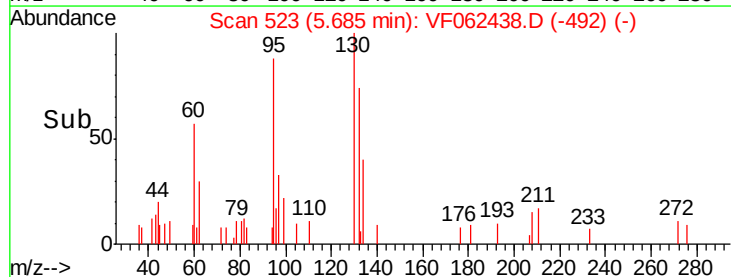
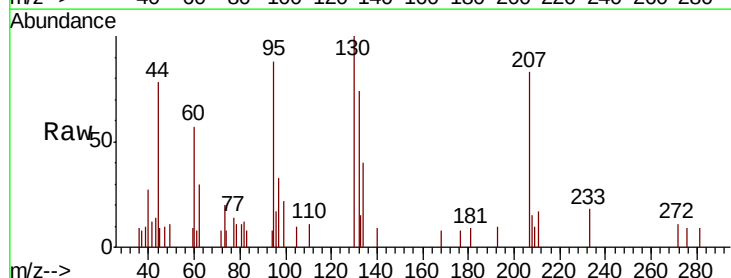
Instrument :
MSVOA_F
ClientSampleId :
B-5

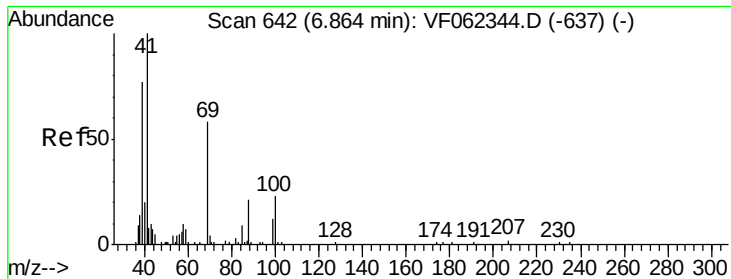
Tot Ion: 83 Resp: 7820
Ion Ratio Lower Upper
83 100
55 23.2 69.0 103.6#
98 0.0 38.6 58.0#



#44
Trichloroethene
Concen: 1.004 ug/l
RT: 5.69 min Scan# 523
Delta R.T. 0.00 min
Lab File: VF062438.D
Acq: 11 May 2019 00:54

Tgt Ion:130 Resp: 3592
Ion Ratio Lower Upper
130 100
95 88.2 0.0 189.0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.96 min Scan# 652

Delta R.T. 0.09 min

Lab File: VF062438.D

Acq: 11 May 2019 00:54

Instrument :

MSVOA_F

ClientSampleId :

B-5

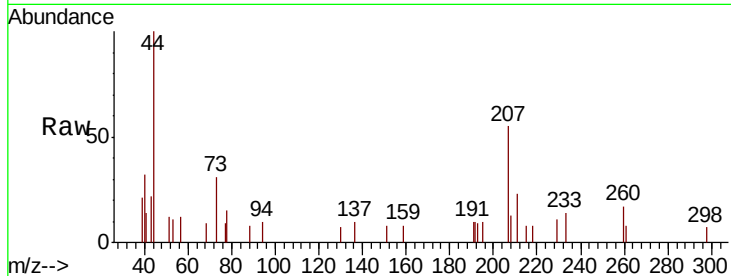
Tot Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 0.0 55.6 83.4#

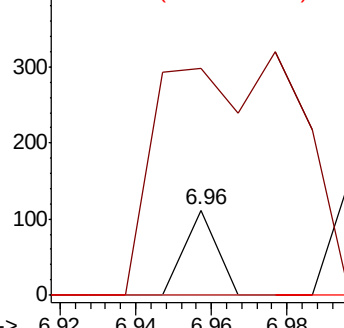
58 0.0 52.8 79.2#



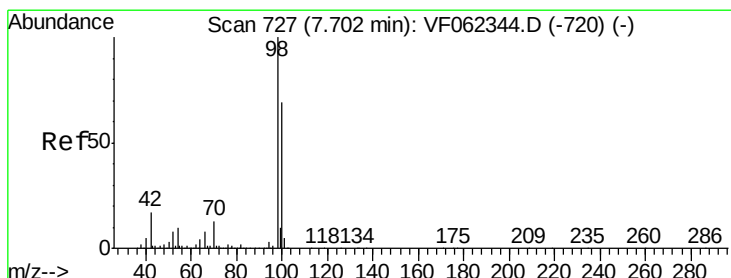
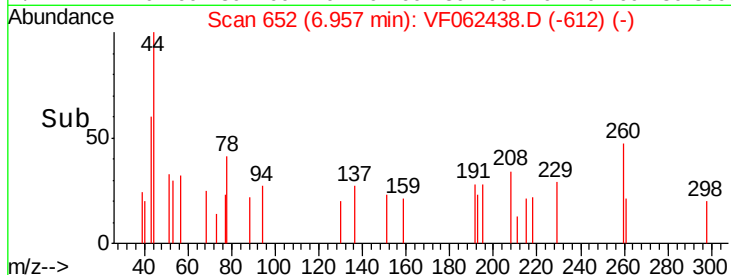
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 49.731 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.01 min

Lab File: VF062438.D

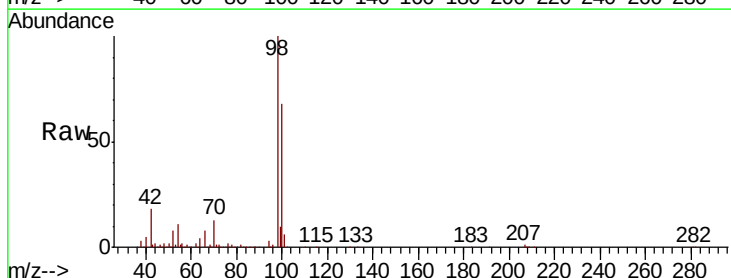
Acq: 11 May 2019 00:54

Tgt Ion: 98 Resp: 493619

Ion Ratio Lower Upper

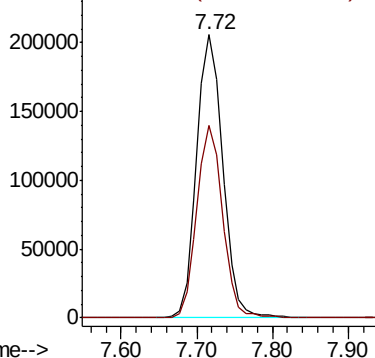
98 100

100 67.0 53.3 79.9

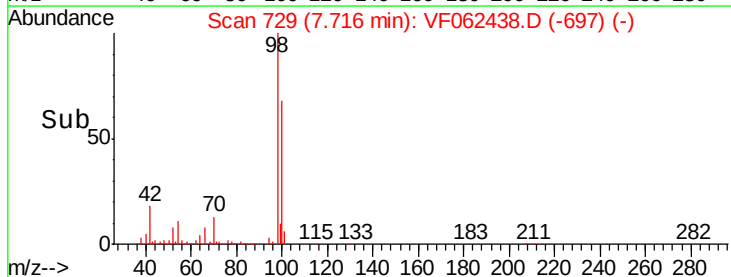


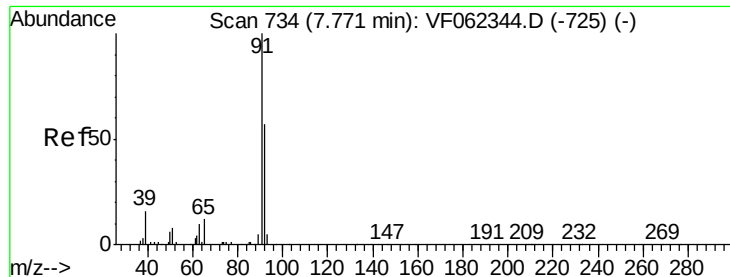
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#52

Toluene

Concen: 3.669 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.01 min

Lab File: VF062438.D

Acq: 11 May 2019 00:54

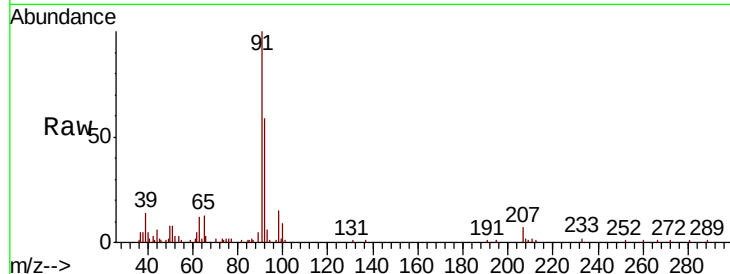
Instrument :
MSVOA_F
ClientSampled :
B-5

Tot Ion: 92 Resp: 22038

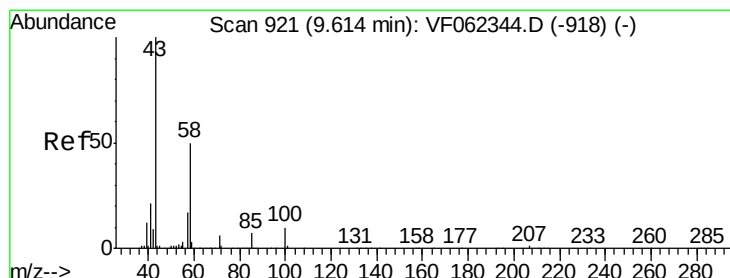
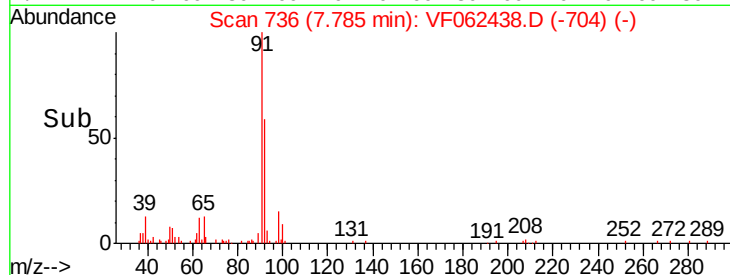
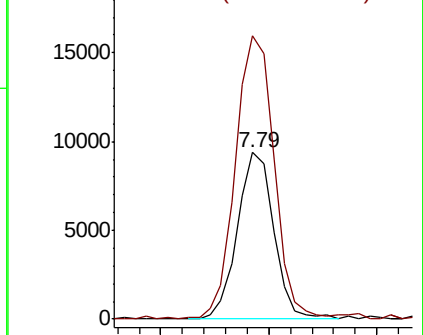
Ion Ratio Lower Upper

92 100

91 180.8 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VF0
Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.788 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.02 min

Lab File: VF062438.D

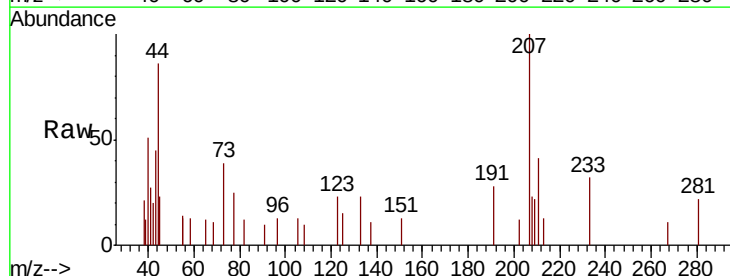
Acq: 11 May 2019 00:54

Tgt Ion: 43 Resp: 1884

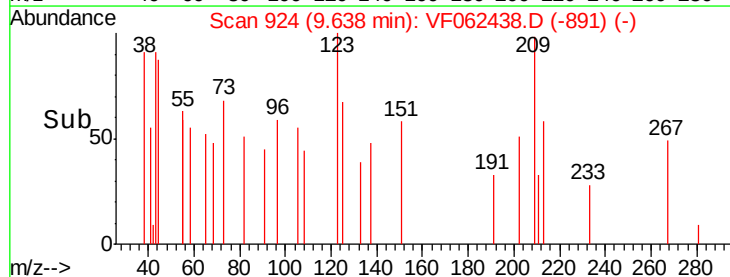
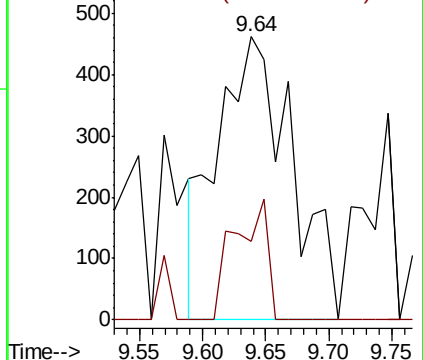
Ion Ratio Lower Upper

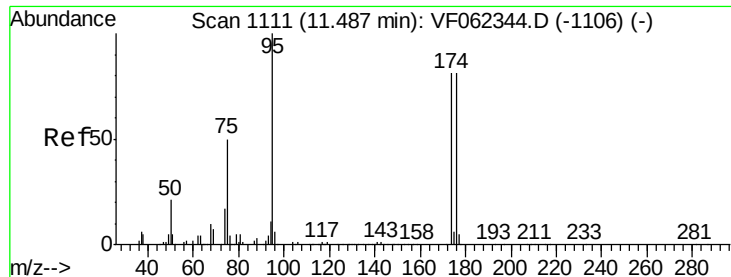
43 100

58 19.1 24.3 73.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

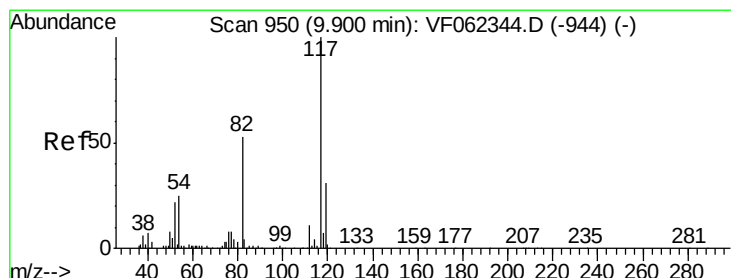
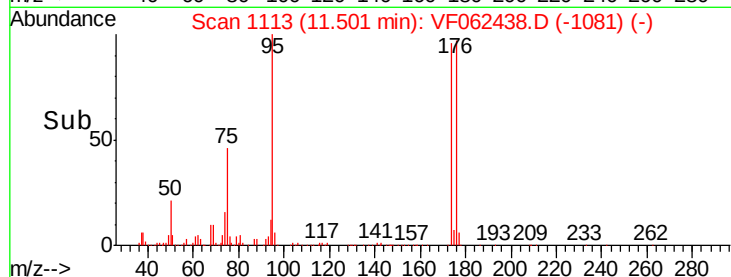
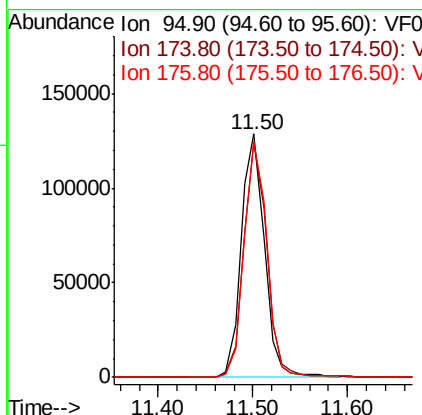
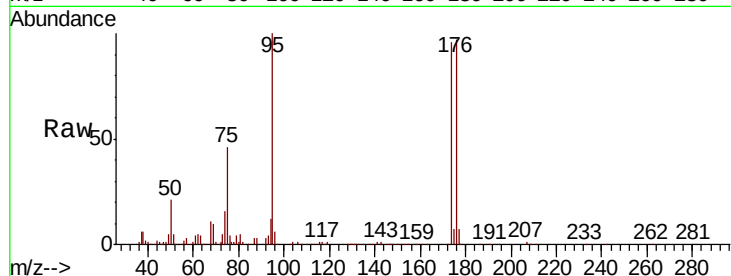




#62
4-Bromofluorobenzene
Concen: 48.626 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VF062438.D
Acq: 11 May 2019 00:54

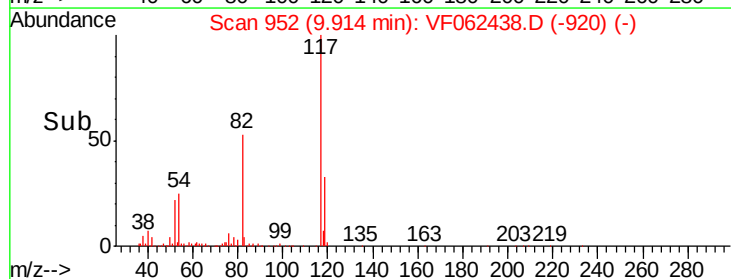
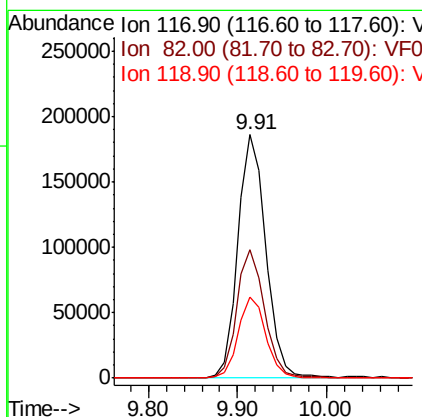
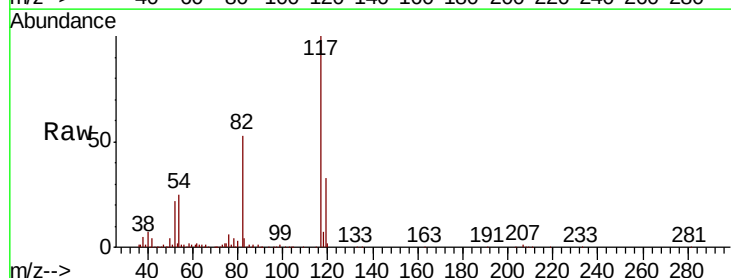
Instrument :
MSVOA_F
ClientSampleId :
B-5

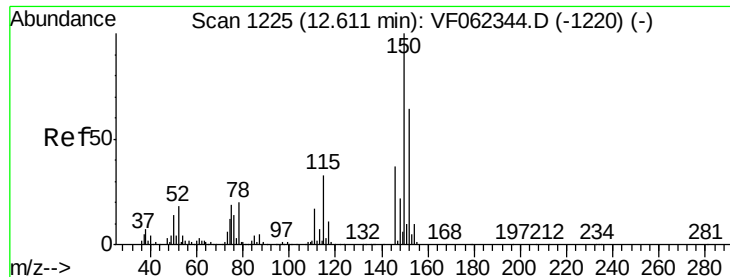
Tot Ion	Ratio	Lower	Upper
95	100		
174	96.2	0.0	191.8
176	96.9	0.0	193.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF062438.D
Acq: 11 May 2019 00:54

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.6	42.2	63.2
119	33.3	25.0	37.4

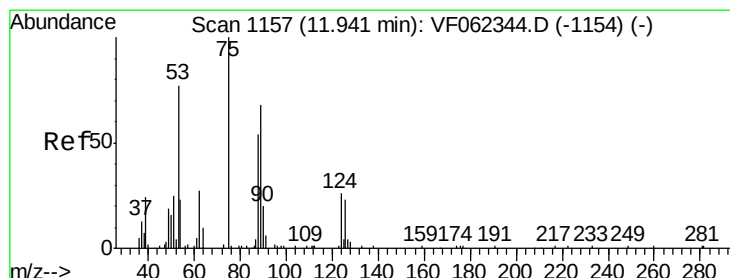
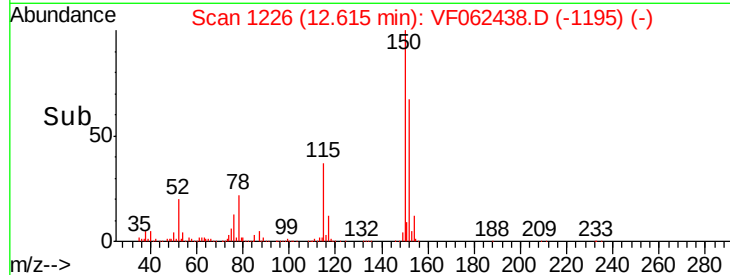
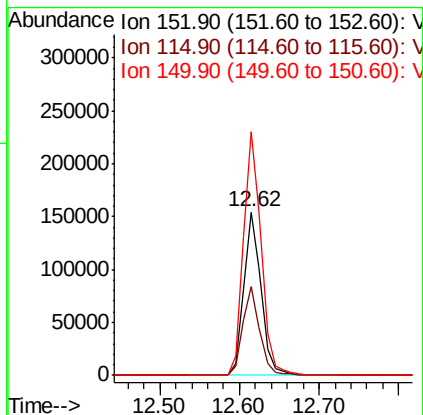
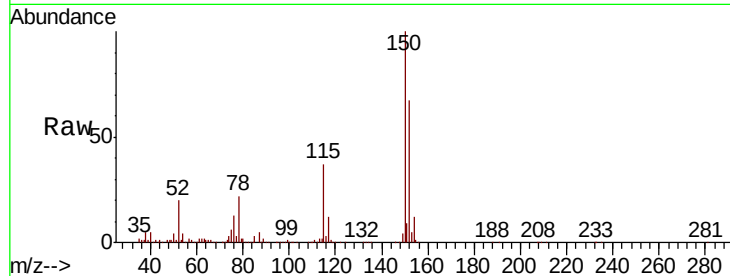




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.62 min Scan# 1226
 Delta R.T. 0.00 min
 Lab File: VF062438.D
 Acq: 11 May 2019 00:54

Instrument :
 MSVOA_F
 ClientSampleId :
 B-5

Tot Ion:152 Resp: 230585
 Ion Ratio Lower Upper
 152 100
 115 53.5 26.4 79.2
 150 153.5 0.0 335.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 1.162 ug/l
 RT: 11.96 min Scan# 1160
 Delta R.T. 0.02 min
 Lab File: VF062438.D
 Acq: 11 May 2019 00:54

Tgt Ion: 75 Resp: 713
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.9 107.9#
 89 27.9 0.0 0.0#

