

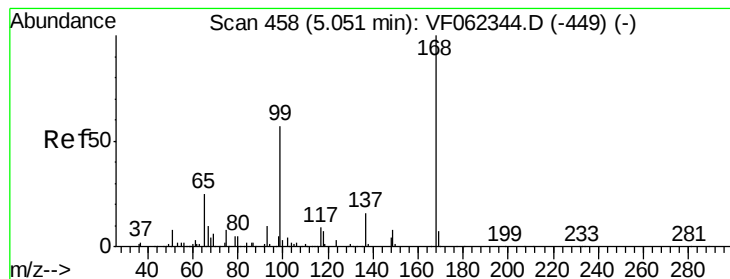
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062481.D
 Acq On : 12 May 2019 2:27
 Operator : FY/SY
 Sample : K2733-19
 Misc : 5.19g/5mL/MSVOA F/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 03:53:53 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	256582	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	338370	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	234881	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	107413	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.05	65	127279	52.49	ug/l	0.03
Spiked Amount 50.000			Recovery	=	104.98%	
35) Dibromofluoromethane	4.32	113	142254	52.77	ug/l	0.02
Spiked Amount 50.000			Recovery	=	105.54%	
50) Toluene-d8	7.72	98	233384	35.77	ug/l	0.02
Spiked Amount 50.000			Recovery	=	71.54%	
62) 4-Bromofluorobenzene	11.50	95	94290	32.03	ug/l	0.02
Spiked Amount 50.000			Recovery	=	64.06%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.43	94	250	Below Cal	#	3
11) Tert butyl alcohol	2.68	59	313	2.284 ug/l	#	1
13) Acrolein	2.09	56	444	Below Cal	#	1
15) Acrylonitrile	3.15	53	609	2.346 ug/l	#	31
16) Acetone	2.36	43	5669	11.557 ug/l	#	74
18) Methyl Acetate	2.46	43	1101	Below Cal	#	90
20) Methylene Chloride	2.35	84	2905	1.637 ug/l	#	74
25) 2-Butanone	4.54	43	757	1.228 ug/l	#	69
29) Tetrahydrofuran	4.28	42	424	1.497 ug/l	#	96
37) Ethyl Acetate	4.29	43	667	Below Cal	#	100
38) Carbon Tetrachloride	4.13	117	189	Below Cal	#	14
39) Methylcyclohexane	5.79	83	4828	1.656 ug/l	#	74
49) 1,4-Dioxane	6.83	88	61	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.42	43	1507	1.504 ug/l	#	55
59) 2-Hexanone	9.64	43	1505	2.172 ug/l	#	66
81) trans-1,4-Dichloro-2-buten	11.95	75	396	1.385 ug/l	#	43

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.02 min

Lab File: VF062481.D

Acq: 12 May 2019 2:27

Instrument :

MSVOA_F

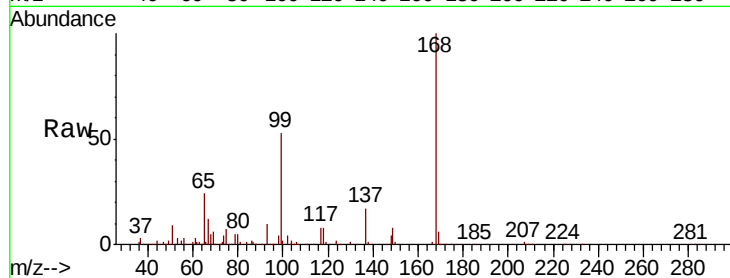
ClientSampleId :

Tot Ion:168 Resp: 256582

Ion Ratio Lower Upper

168 100

99 53.3 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

80000

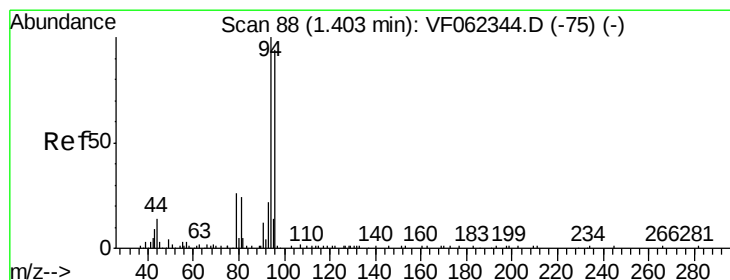
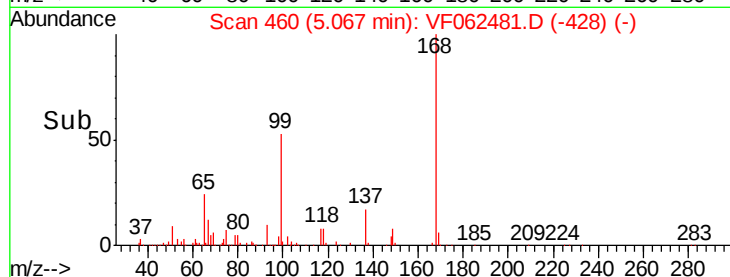
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.03 min

Lab File: VF062481.D

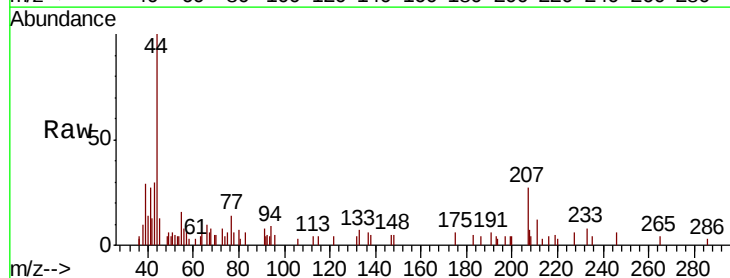
Acq: 12 May 2019 2:27

Tgt Ion: 94 Resp: 250

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

500

400

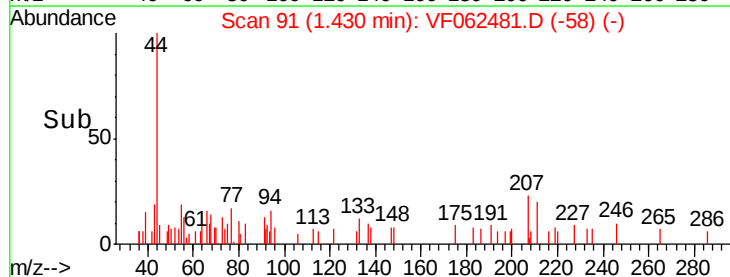
300

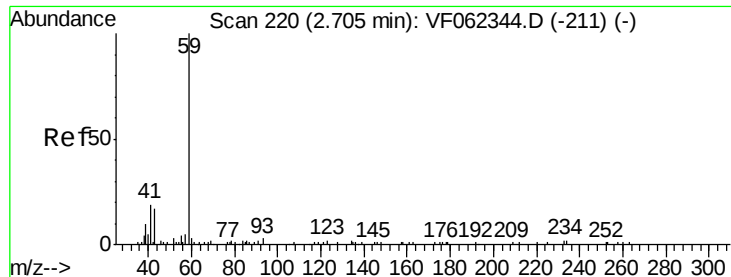
200

100

0

Time--> 1.40 1.42 1.44 1.46



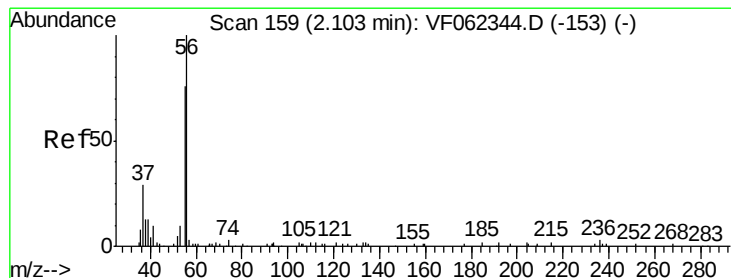
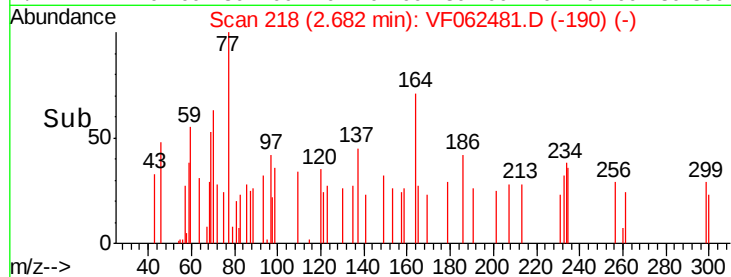
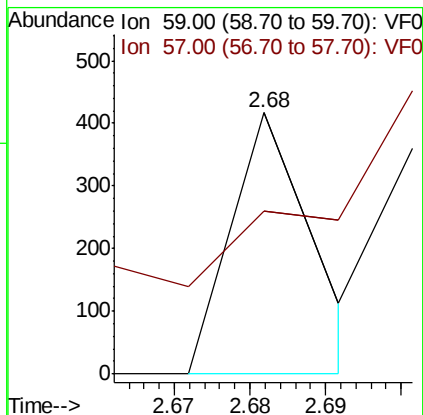
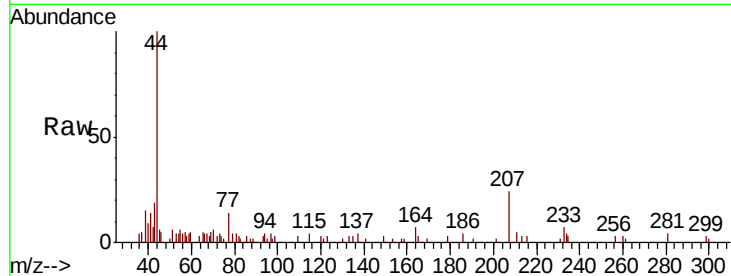


#11

Tert butyl alcohol
 Concen: 2.284 ug/l
 RT: 2.68 min Scan# 218
 Delta R.T. -0.02 min
 Lab File: VF062481.D
 Acq: 12 May 2019 2:27

Instrument :
 MSVOA_F
 ClientSampleId :

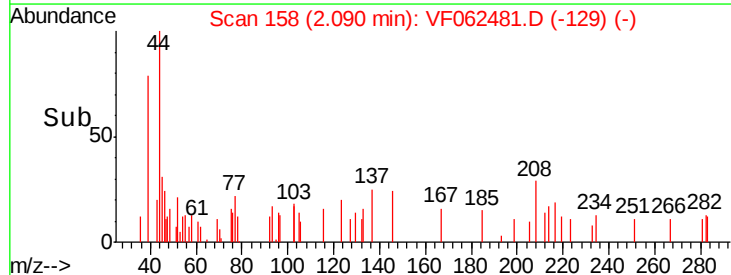
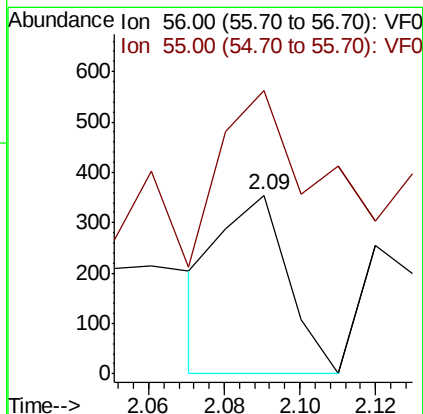
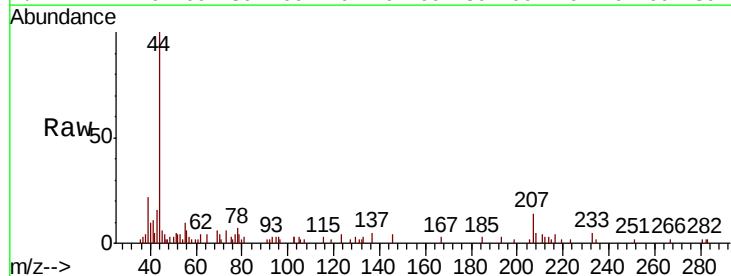
Tot Ion: 59 Resp: 313
 Ion Ratio Lower Upper
 59 100
 57 316.9 9.3 13.9#

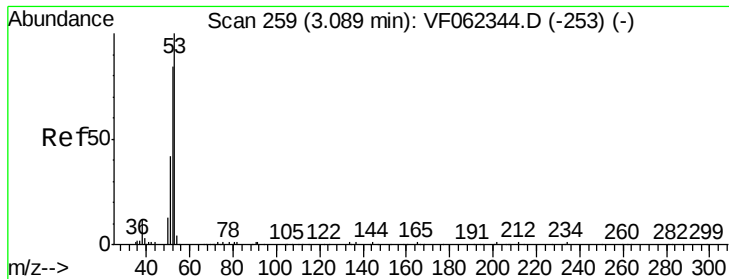


#13

Acrolein
 Concen: Below Cal
 RT: 2.09 min Scan# 158
 Delta R.T. -0.01 min
 Lab File: VF062481.D
 Acq: 12 May 2019 2:27

Tgt Ion: 56 Resp: 444
 Ion Ratio Lower Upper
 56 100
 55 202.9 58.4 87.6#





#15

Acrylonitrile

Concen: 2.346 ug/l

RT: 3.15 min Scan# 265

Delta R.T. 0.06 min

Lab File: VF062481.D

Acq: 12 May 2019 2:27

Instrument :
MSVOA_F
ClientSampled :

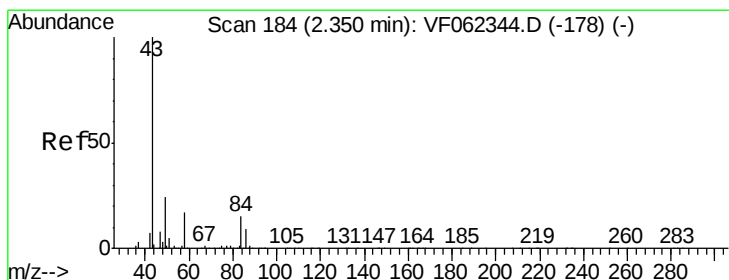
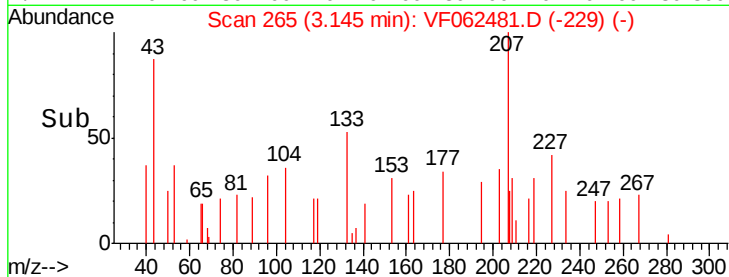
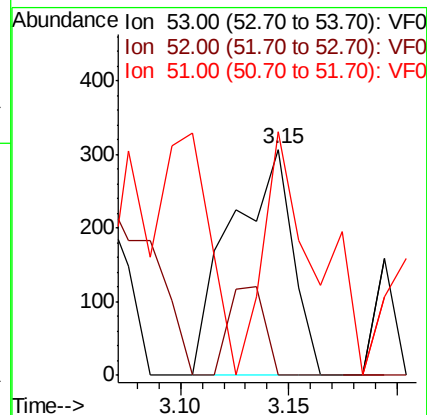
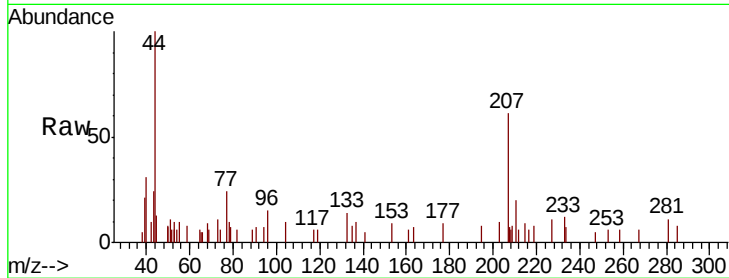
Tot Ion: 53 Resp: 609

Ion Ratio Lower Upper

53 100

52 23.0 77.2 115.8#

51 91.1 40.6 61.0#



#16

Acetone

Concen: 11.557 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062481.D

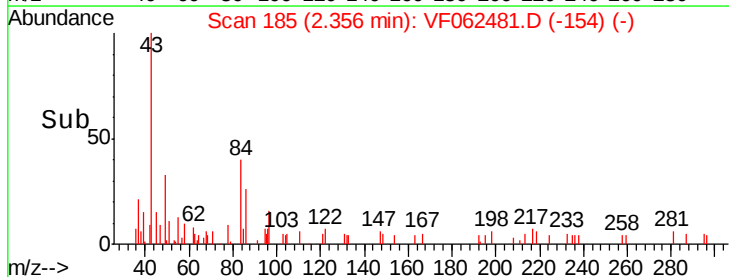
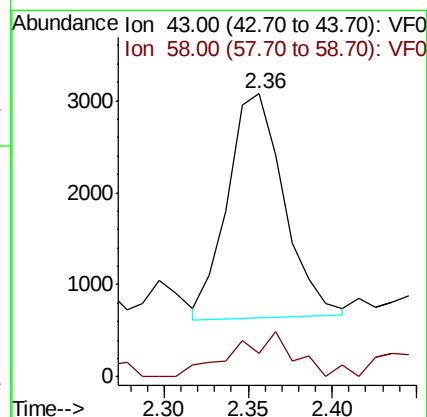
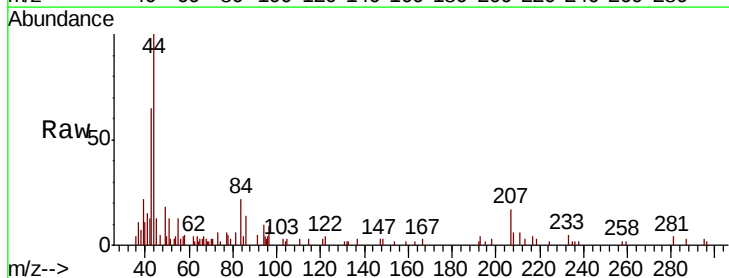
Acq: 12 May 2019 2:27

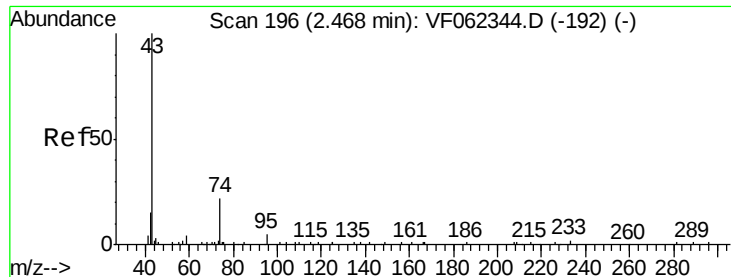
Tgt Ion: 43 Resp: 5669

Ion Ratio Lower Upper

43 100

58 5.4 13.1 19.7#

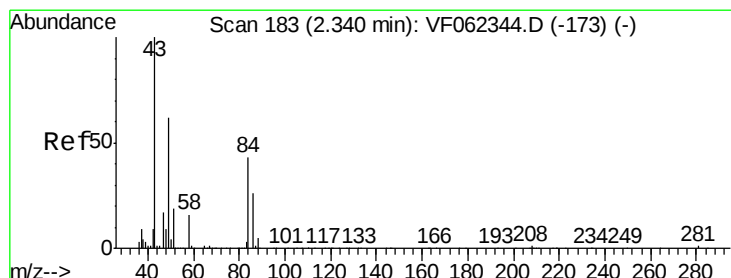
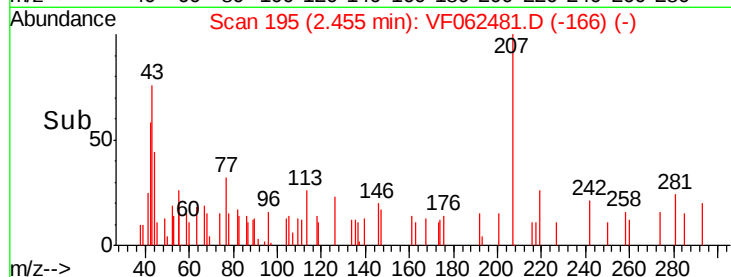
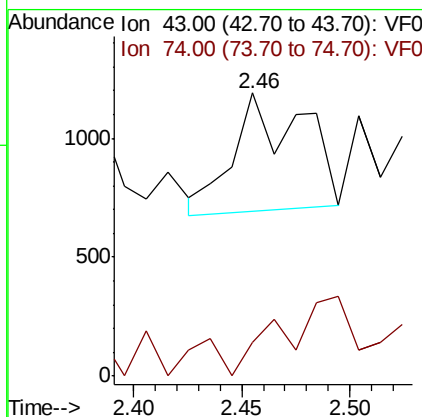
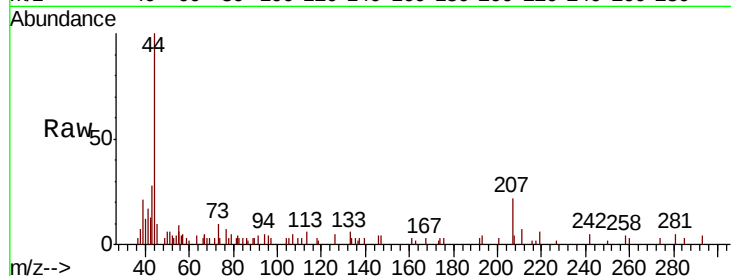




#18
Methyl Acetate
Concen: Below Cal
RT: 2.46 min Scan# 195
Delta R.T. -0.01 min
Lab File: VF062481.D
Acq: 12 May 2019 2:27

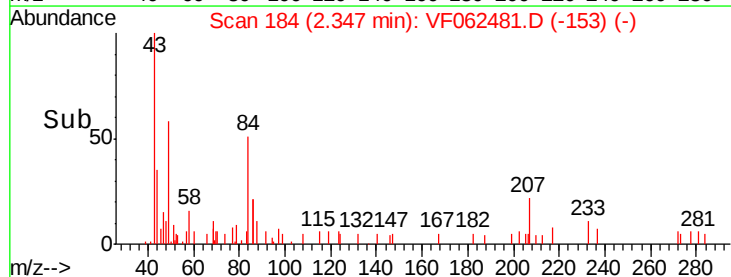
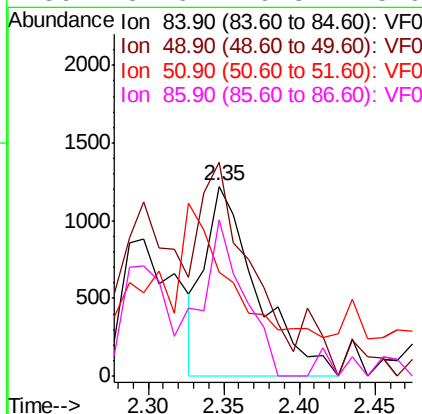
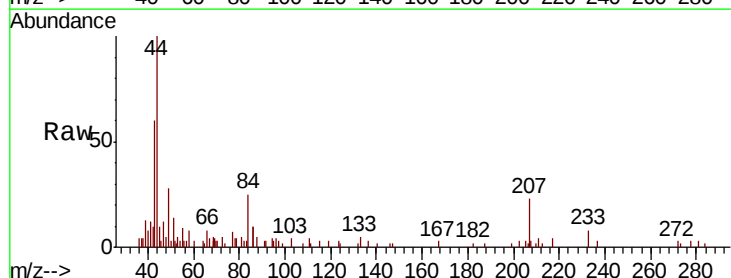
Instrument :
MSVOA_F
ClientSampled :

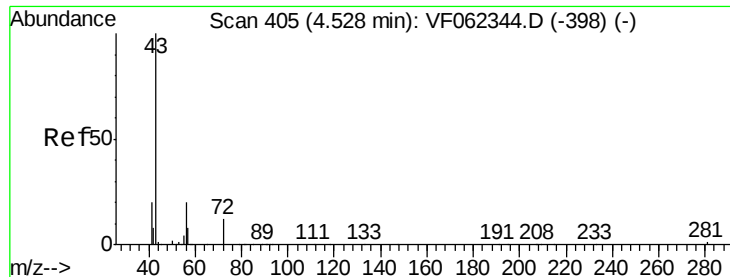
Tot Ion: 43 Resp: 1101
Ion Ratio Lower Upper
43 100
74 14.3 15.0 22.4#



#20
Methylene Chloride
Concen: 1.637 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062481.D
Acq: 12 May 2019 2:27

Tgt Ion: 84 Resp: 2905
Ion Ratio Lower Upper
84 100
49 112.7 117.5 176.3#
51 32.3 37.0 55.4#
86 82.6 49.3 73.9#





#25

2-Butanone

Concen: 1.228 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.02 min

Lab File: VF062481.D

Acq: 12 May 2019 2:27

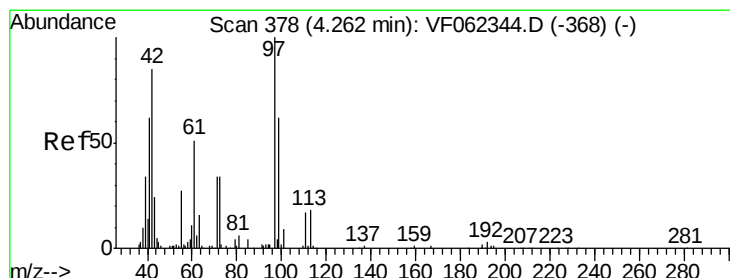
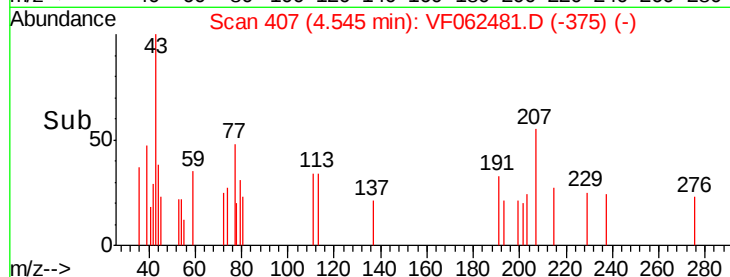
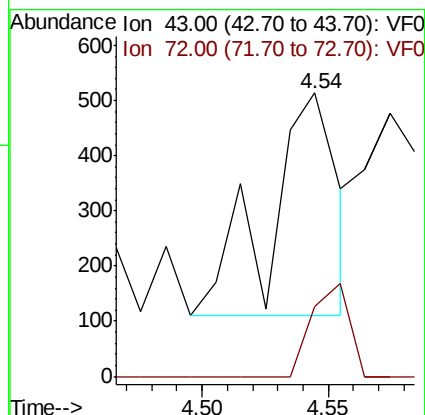
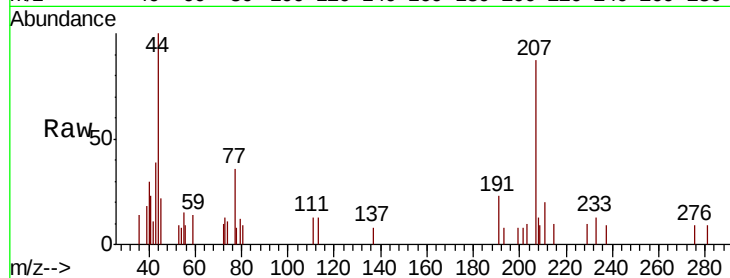
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 757

Ion Ratio Lower Upper

43 100

72 31.3 14.2 21.4#



#29

Tetrahydrofuran

Concen: 1.497 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.02 min

Lab File: VF062481.D

Acq: 12 May 2019 2:27

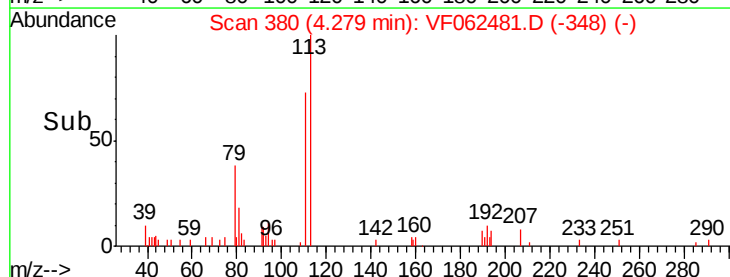
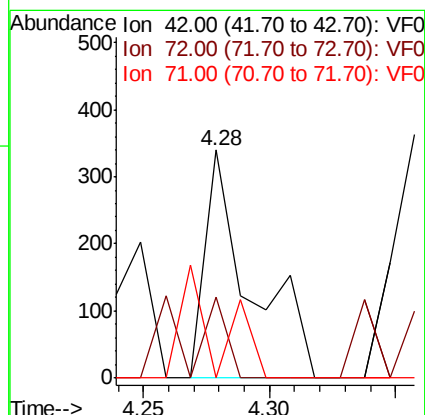
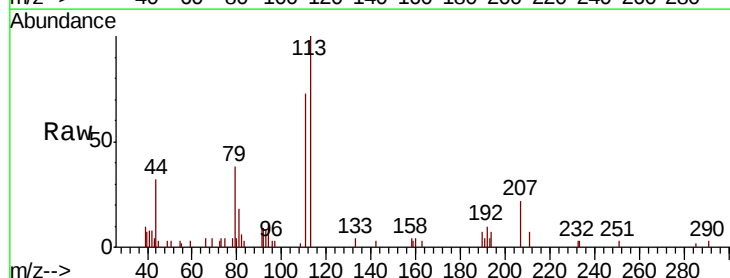
Tgt Ion: 42 Resp: 424

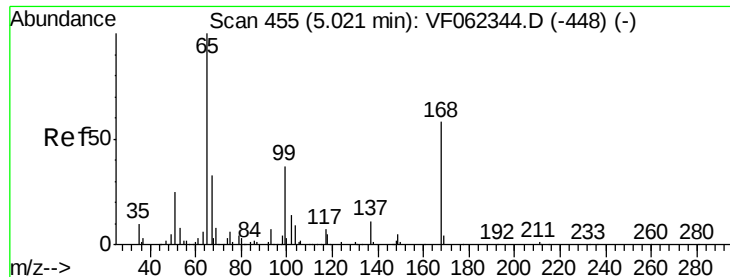
Ion Ratio Lower Upper

42 100

72 34.0 31.4 47.0

71 39.9 31.7 47.5

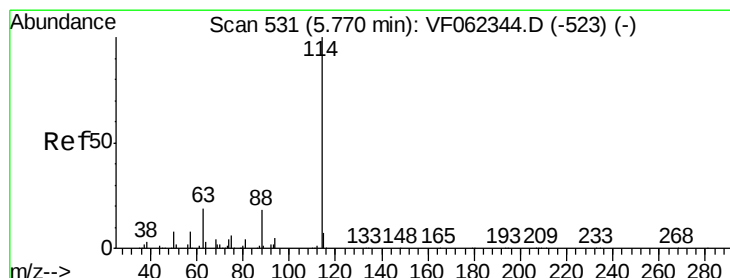
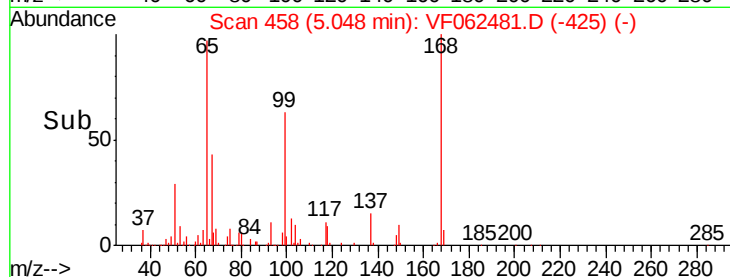
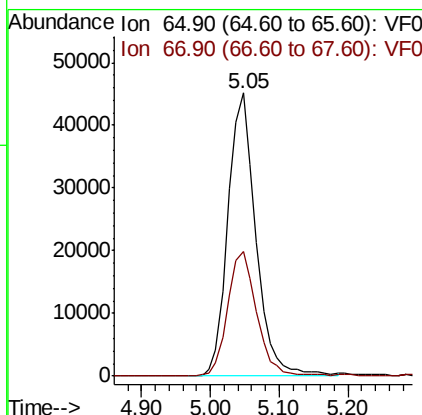
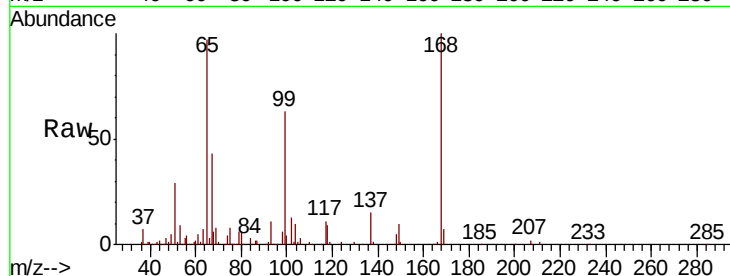




#33
 1,2-Dichloroethane-d4
 Concen: 52.490 ug/l
 RT: 5.05 min Scan# 458
 Delta R.T. 0.03 min
 Lab File: VF062481.D
 Acq: 12 May 2019 2:27

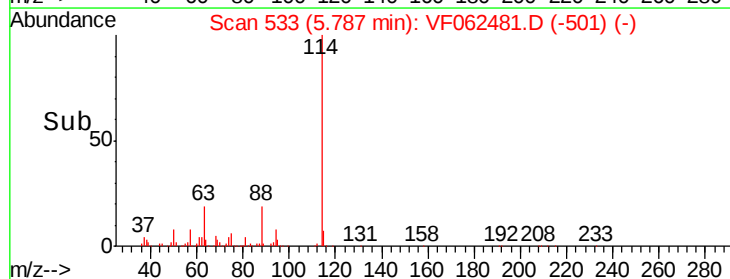
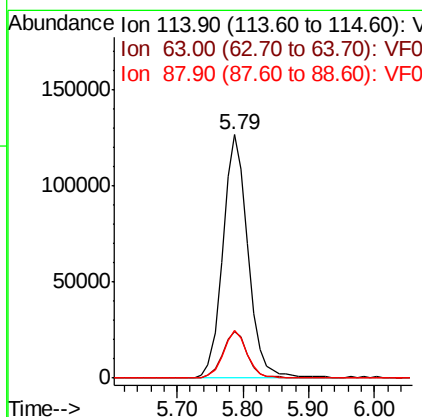
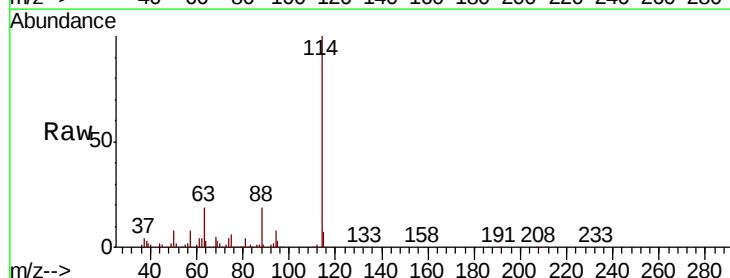
Instrument :
 MSVOA_F
 ClientSampleId :

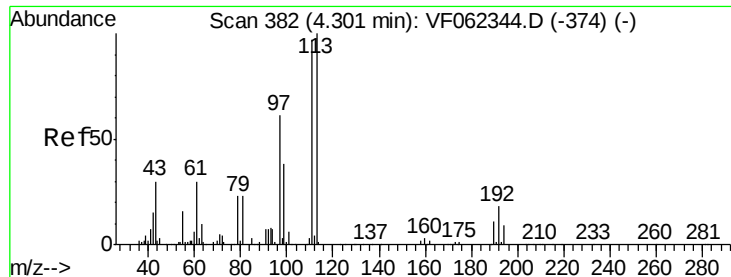
Tot Ion: 65 Resp: 127279
 Ion Ratio Lower Upper
 65 100
 67 45.6 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062481.D
 Acq: 12 May 2019 2:27

Tgt Ion: 114 Resp: 338370
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 37.4
 88 19.5 0.0 36.4

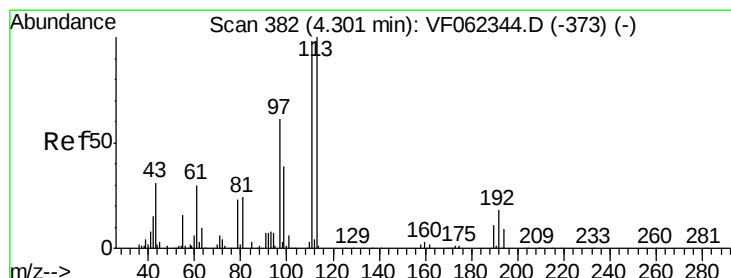
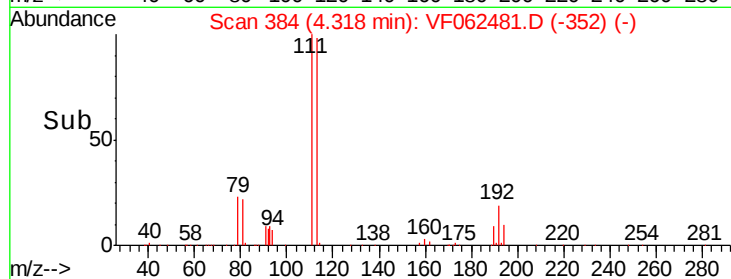
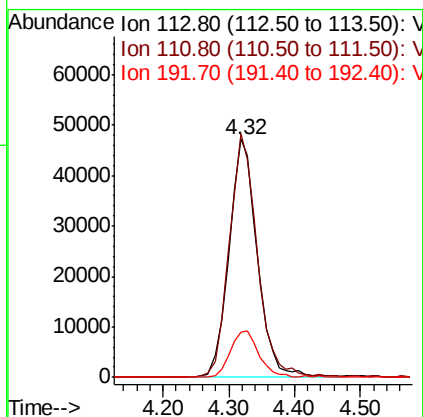
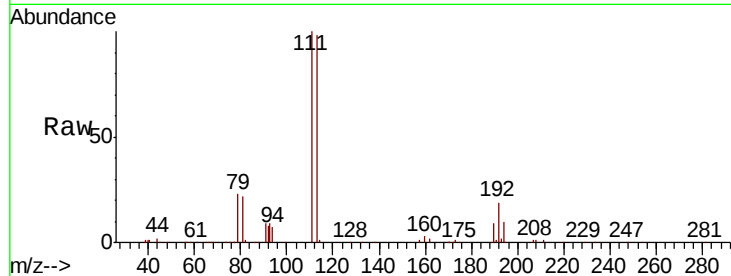




#35
 Dibromofluoromethane
 Concen: 52.770 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062481.D
 Acq: 12 May 2019 2:27

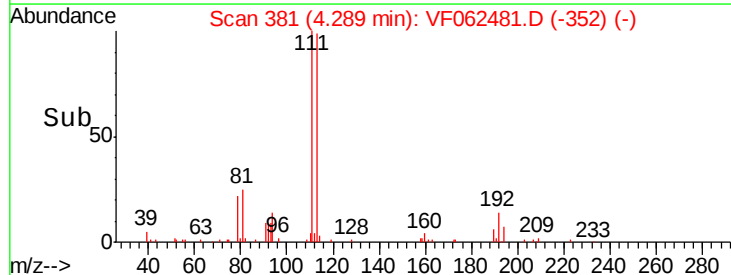
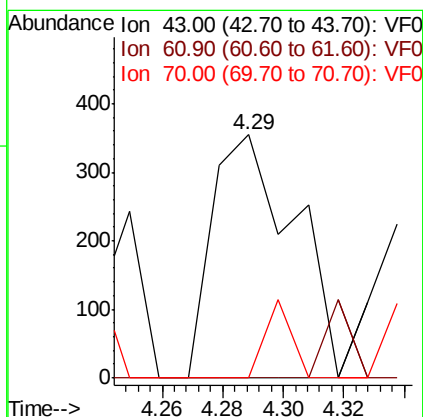
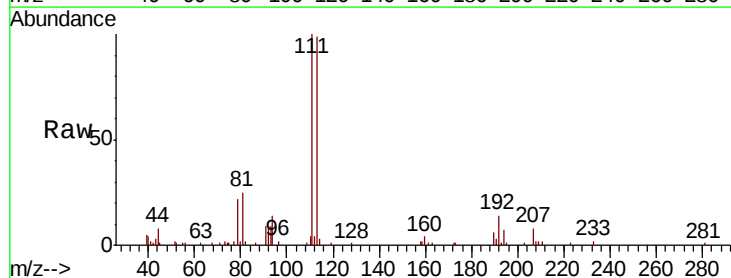
Instrument :
 MSVOA_F
 ClientSampleId :

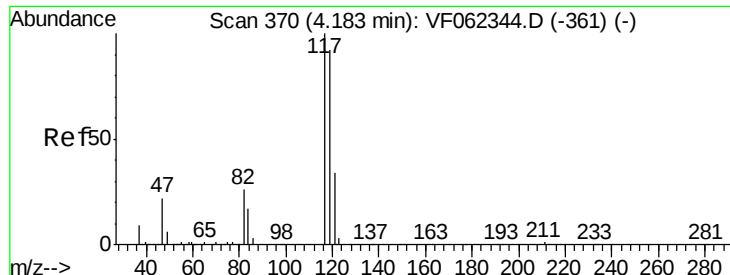
Tot Ion:113 Resp: 142254
 Ion Ratio Lower Upper
 113 100
 111 101.3 79.4 119.0
 192 19.8 16.0 24.0



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.29 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VF062481.D
 Acq: 12 May 2019 2:27

Tgt Ion: 43 Resp: 667
 Ion Ratio Lower Upper
 43 100
 61 0.0 0.0 0.0
 70 10.0 8.2 12.2





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.13 min Scan# 365

Delta R.T. -0.05 min

Lab File: VF062481.D

Acq: 12 May 2019 2:27

Instrument :

MSVOA_F

ClientSampleId :

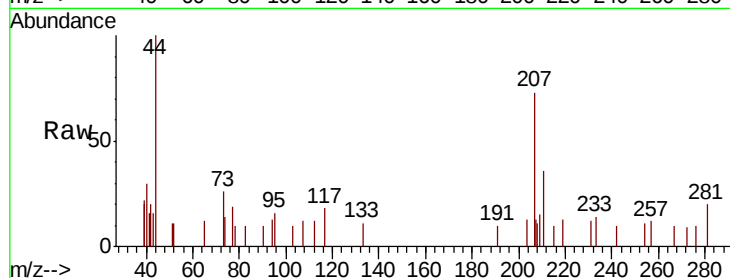
Tot Ion:117 Resp: 189

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

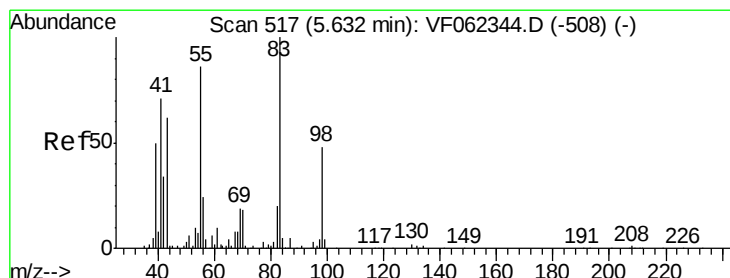
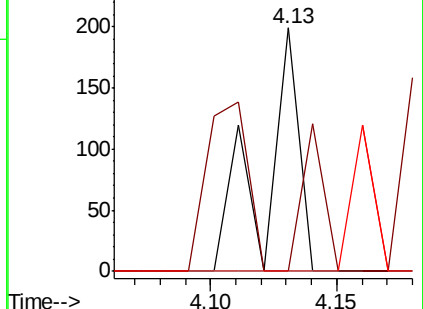
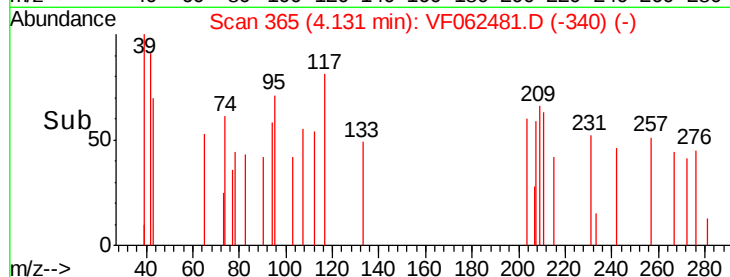
121 0.0 27.4 41.0#



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



#39

Methylcyclohexane

Concen: 1.656 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.15 min

Lab File: VF062481.D

Acq: 12 May 2019 2:27

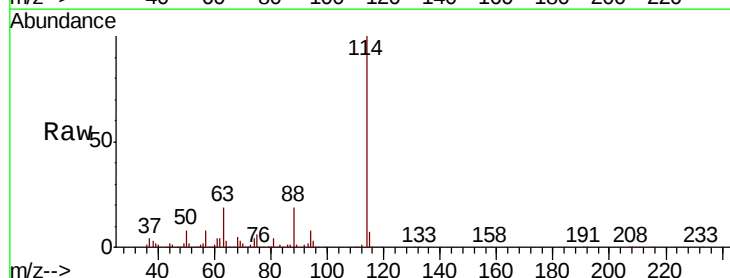
Tgt Ion: 83 Resp: 4828

Ion Ratio Lower Upper

83 100

55 85.0 69.0 103.6

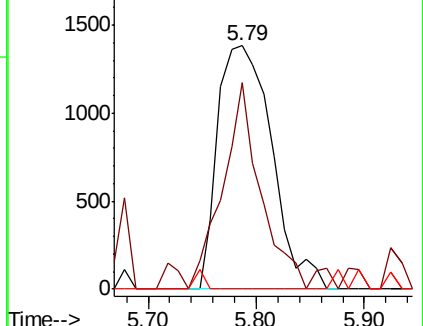
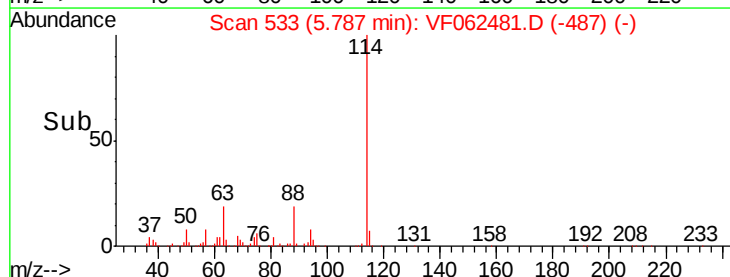
98 0.0 38.6 58.0#

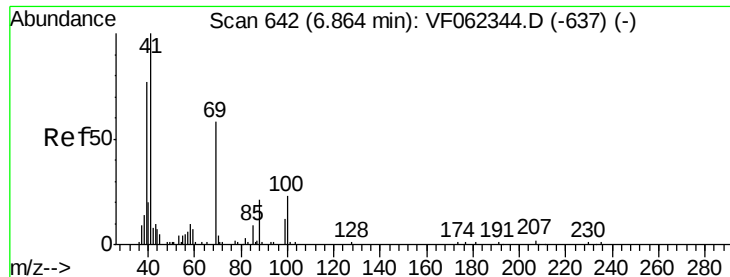


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.83 min Scan# 639

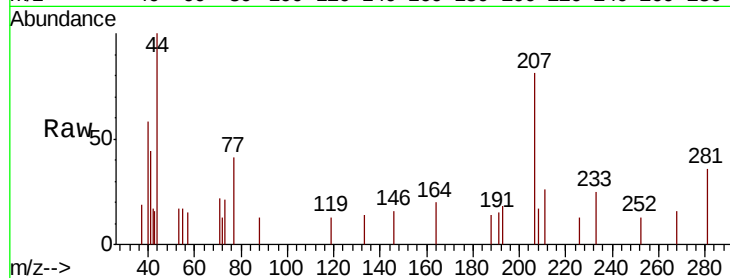
Delta R.T. -0.03 min

Lab File: VF062481.D

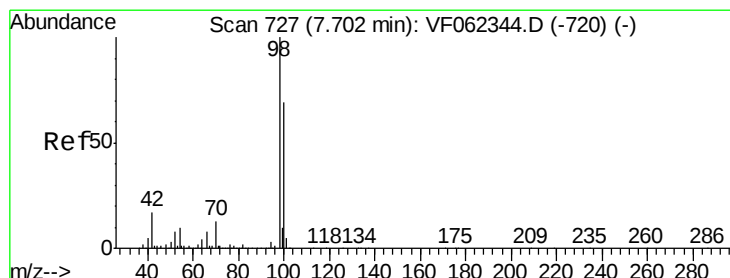
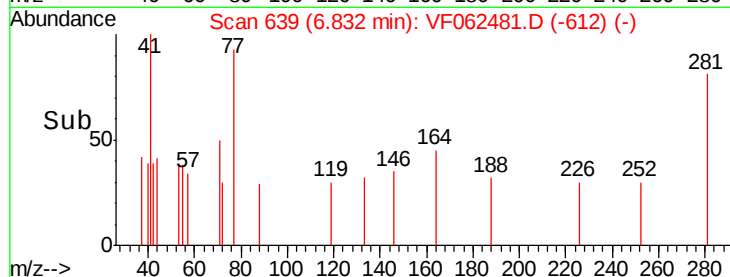
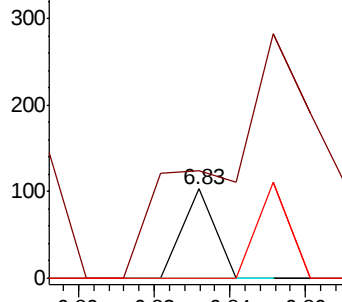
Acq: 12 May 2019 2:27

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 901.6 55.6 83.4#
58 106.6 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



#50

Toluene-d8

Concen: 35.765 ug/l

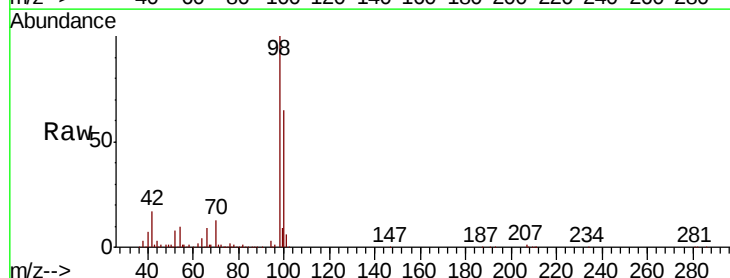
RT: 7.72 min Scan# 729

Delta R.T. 0.02 min

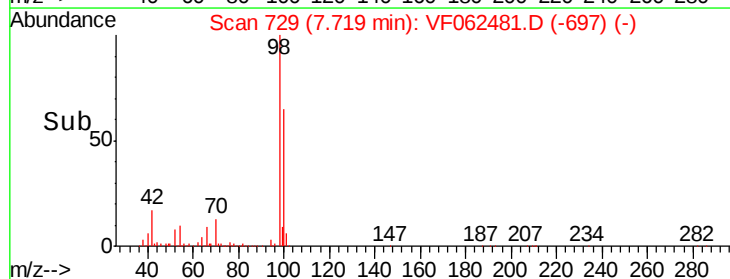
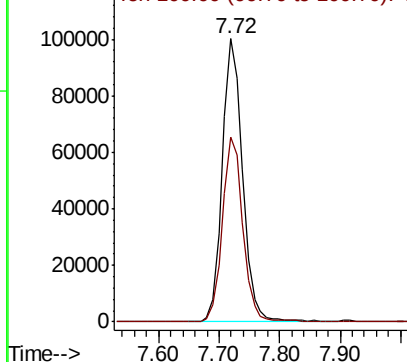
Lab File: VF062481.D

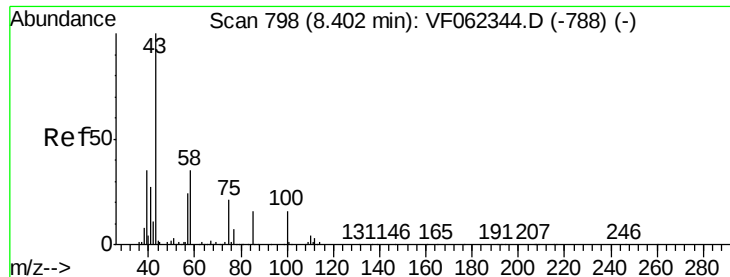
Acq: 12 May 2019 2:27

Tgt Ion: 98 Resp: 233384
Ion Ratio Lower Upper
98 100
100 65.4 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.504 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062481.D

Acq: 12 May 2019 2:27

Instrument :

MSVOA_F

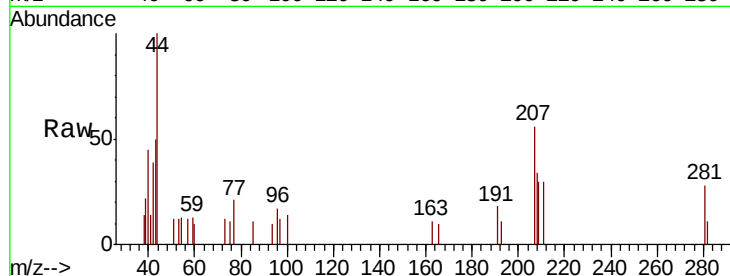
ClientSampled :

Tot Ion: 43 Resp: 1507

Ion Ratio Lower Upper

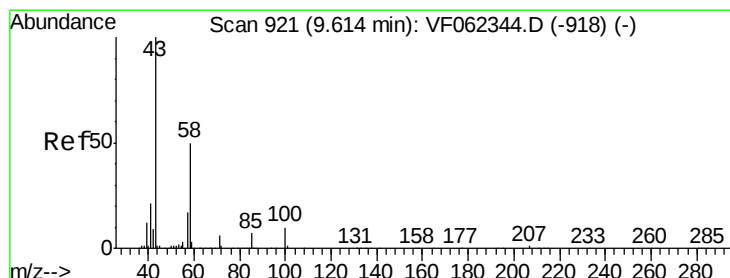
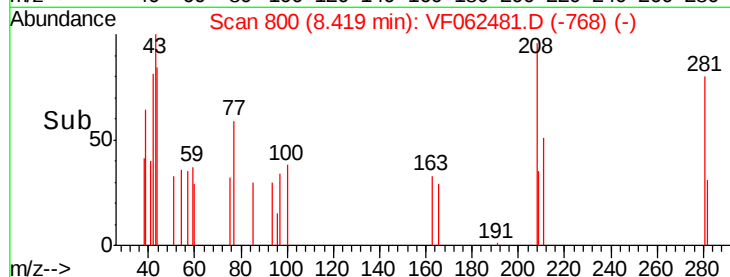
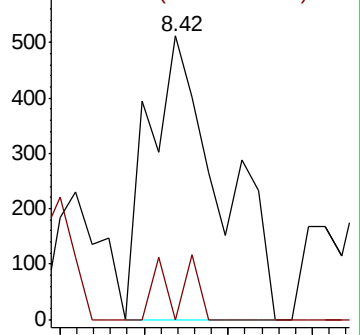
43 100

58 9.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 2.172 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.03 min

Lab File: VF062481.D

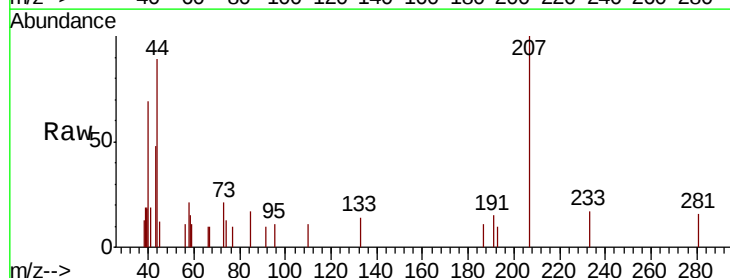
Acq: 12 May 2019 2:27

Tgt Ion: 43 Resp: 1505

Ion Ratio Lower Upper

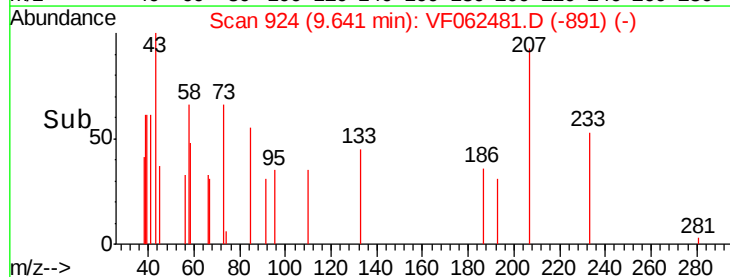
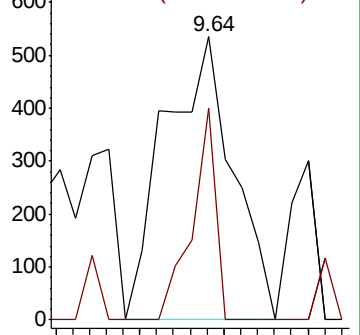
43 100

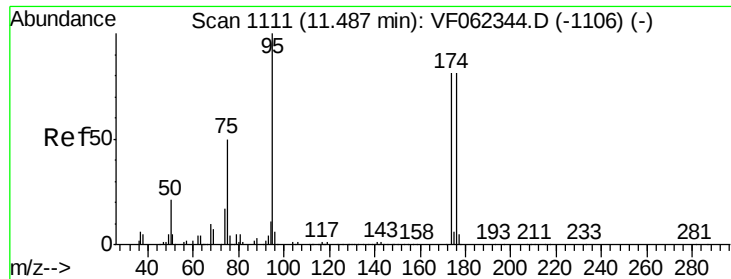
58 25.6 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 32.027 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062481.D

Acq: 12 May 2019 2:27

Instrument :

MSVOA_F

ClientSampleId :

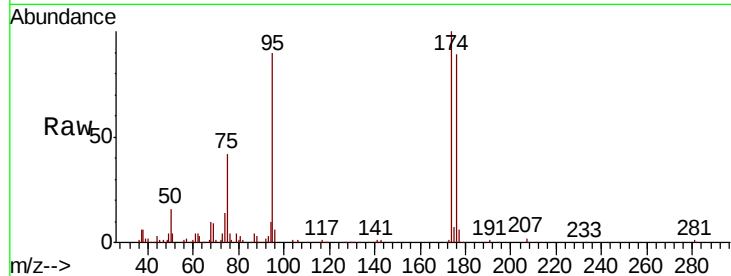
Tot Ion: 95 Resp: 94290

Ion Ratio Lower Upper

95 100

174 100.5 0.0 191.8

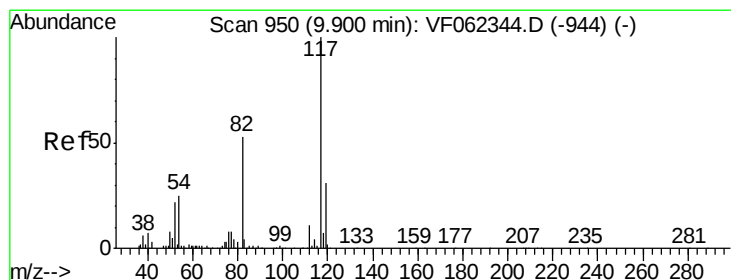
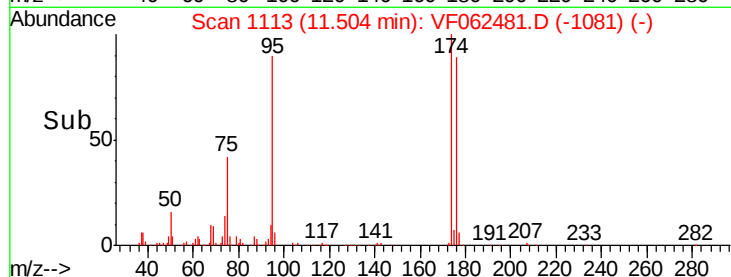
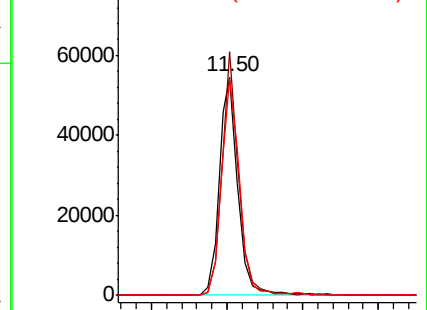
176 96.7 0.0 193.2



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: VF062481.D

Acq: 12 May 2019 2:27

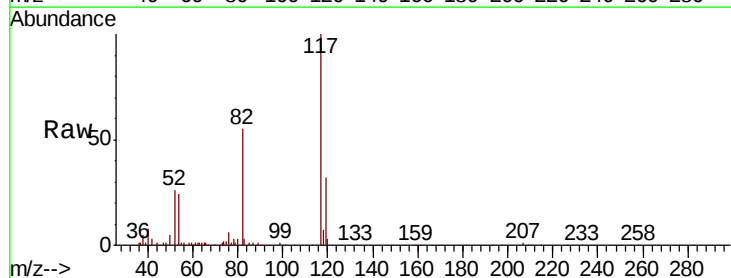
Tgt Ion: 117 Resp: 234881

Ion Ratio Lower Upper

117 100

82 55.1 42.2 63.2

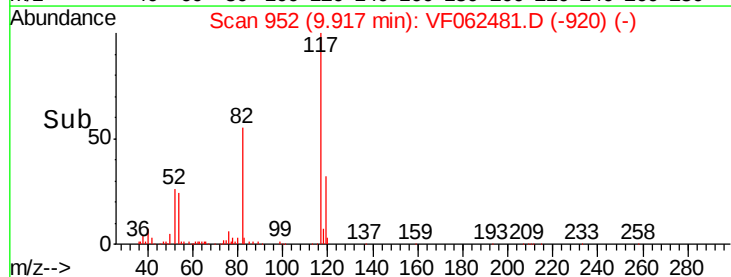
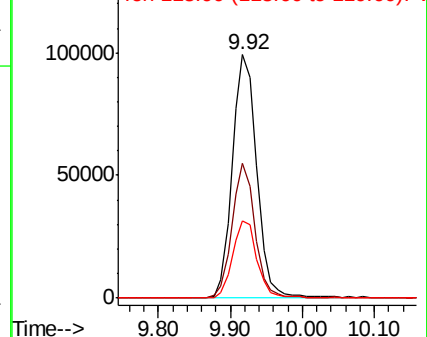
119 31.7 25.0 37.4

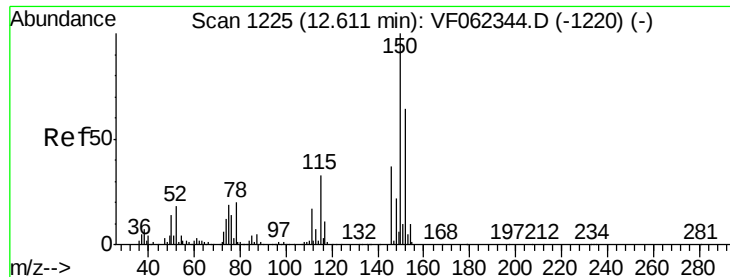


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



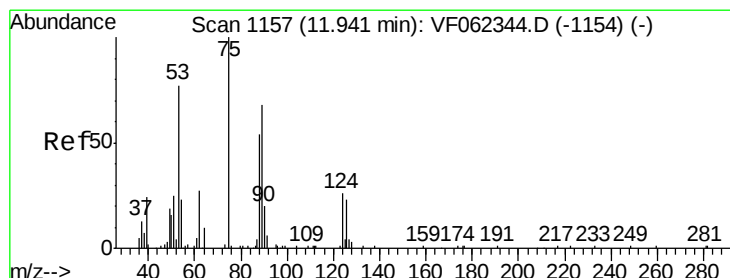
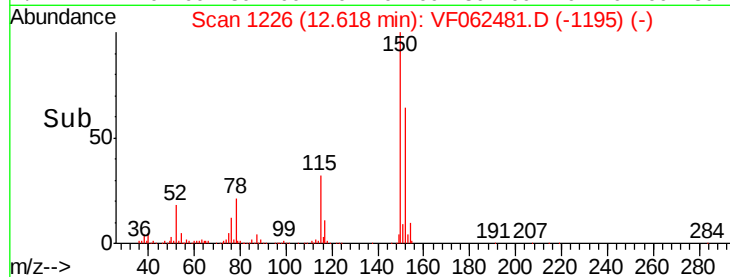
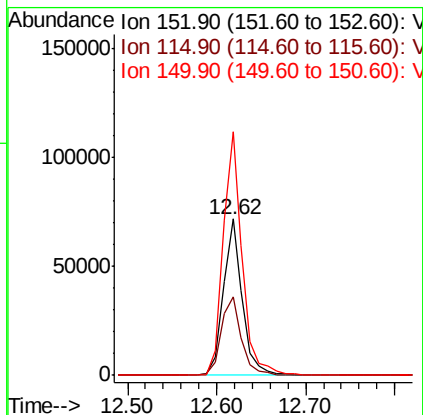
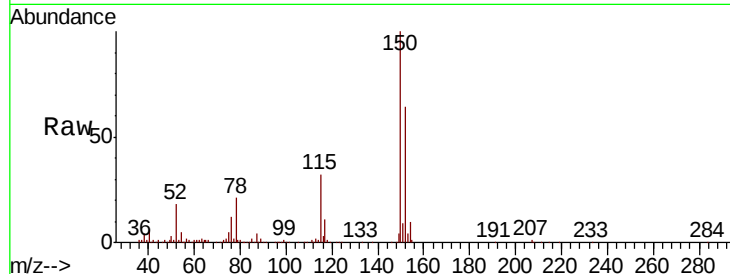


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062481.D
Acq: 12 May 2019 2:27

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.7	26.4	79.2
150	156.7	0.0	335.0



#81

trans-1,4-Dichloro-2-butene
Concen: 1.385 ug/l
RT: 11.95 min Scan# 1158
Delta R.T. 0.01 min
Lab File: VF062481.D
Acq: 12 May 2019 2:27

Tgt Ion	Ratio	Lower	Upper
75	100		
53	36.6	71.9	107.9#
89	0.0	0.0	0.0

