

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062484.D
 Acq On : 12 May 2019 3:51
 Operator : FY/SY
 Sample : K2756-01
 Misc : 4.36g/5mL/MSVOA F/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 05:22:17 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	5.08	168	82591	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	81988	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	50395	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	22343	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	23324	29.88	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	59.76%	
35) Dibromofluoromethane	4.33	113	29962	45.87	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	91.74%	
50) Toluene-d8	7.73	98	49890	31.55	ug/l	0.03
Spiked Amount				50.000		
			Recovery	=	63.10%	
62) 4-Bromofluorobenzene	11.51	95	17585	24.65	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	49.30%	

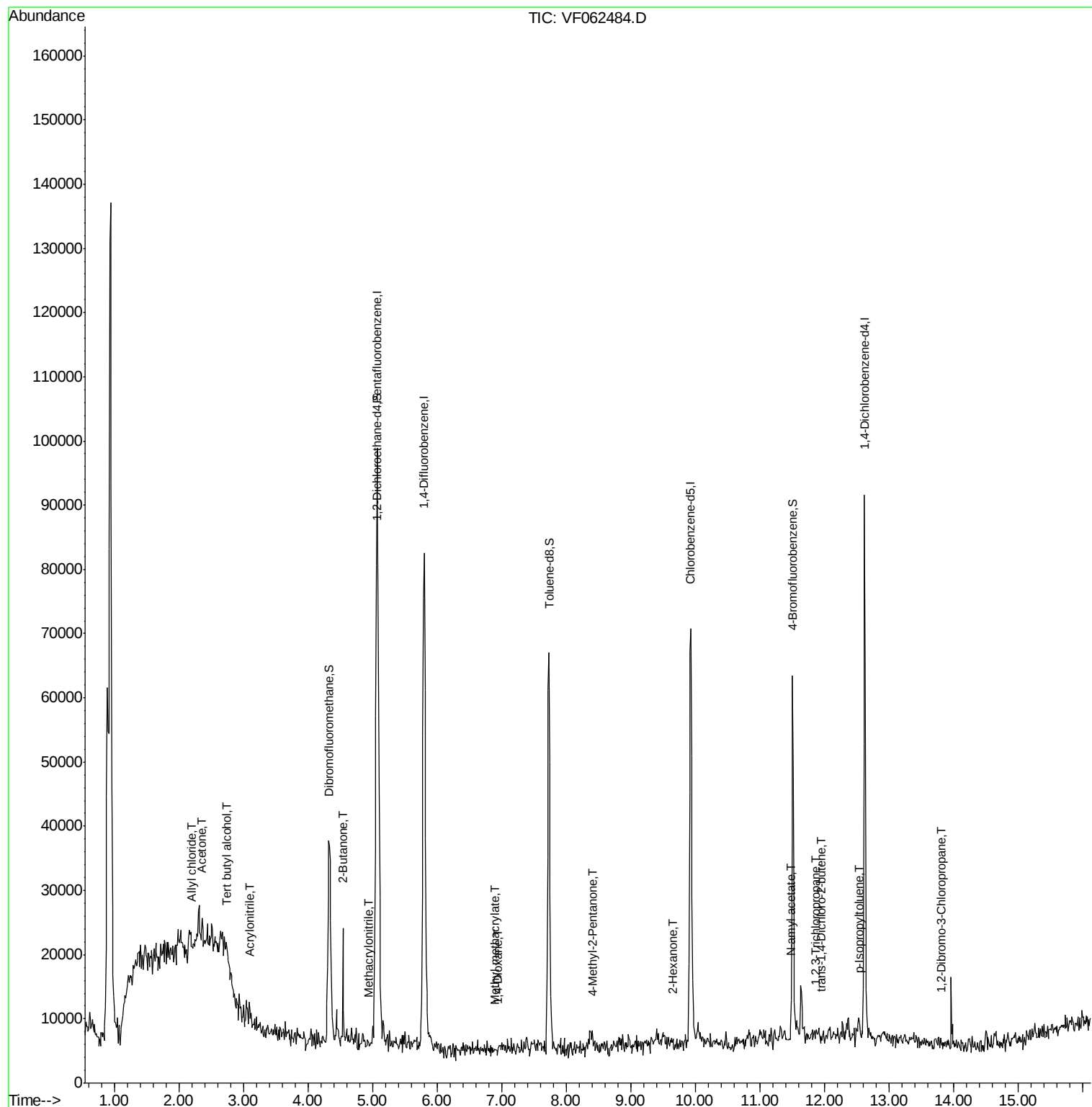
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.41	94	206	Below Cal	#	3
11) Tert butyl alcohol	2.75	59	390	8.841	ug/l #	1
13) Acrolein	2.14	56	568	Below Cal	#	13
14) Allyl chloride	2.20	41	790	1.412	ug/l #	68
15) Acrylonitrile	3.10	53	213	2.549	ug/l #	1
16) Acetone	2.37	43	1755	11.115	ug/l #	92
18) Methyl Acetate	2.47	43	244	Below Cal	#	1
25) 2-Butanone	4.54	43	549	2.768	ug/l #	57
37) Ethyl Acetate	4.32	43	315	Below Cal	#	72
38) Carbon Tetrachloride	4.22	117	102	Below Cal	#	14
41) Methacrylonitrile	4.94	41	169	1.001	ug/l #	1
48) Methyl methacrylate	6.90	41	710	3.136	ug/l #	65
49) 1,4-Dioxane	6.93	88	59	12.435	ug/l #	22
51) 4-Methyl-2-Pentanone	8.42	43	977	4.025	ug/l #	40
59) 2-Hexanone	9.65	43	963	5.736	ug/l	67
74) N-amyl acetate	11.48	43	303	1.066	ug/l #	83
76) 1,2,3-Trichloropropane	11.88	75	186	1.176	ug/l #	100
81) trans-1,4-Dichloro-2-buten	11.95	75	67	1.126	ug/l #	94
86) p-Isopropyltoluene	12.53	119	1402	1.016	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.80	75	62	1.334	ug/l #	1

(#) = 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: 5.08 min Scan# 461

Delta R.T. 0.03 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

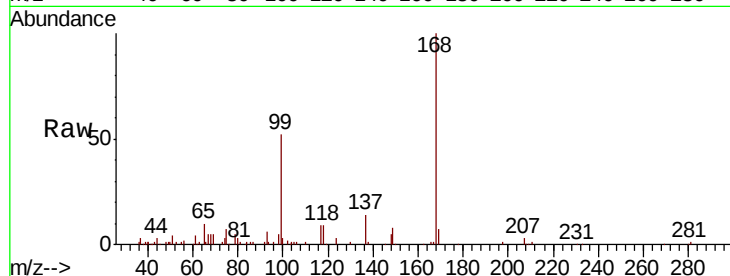
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 82591

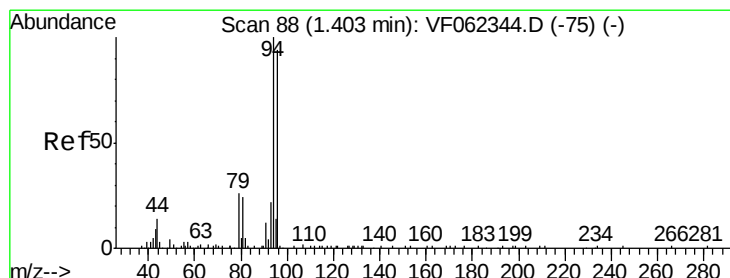
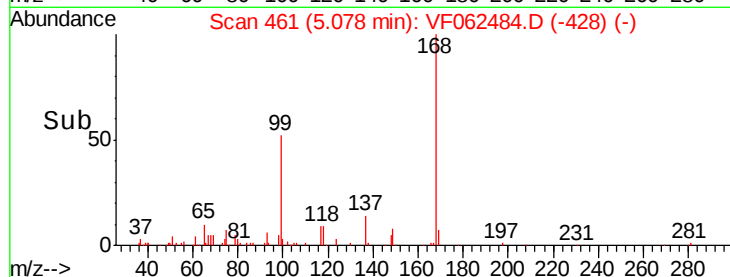
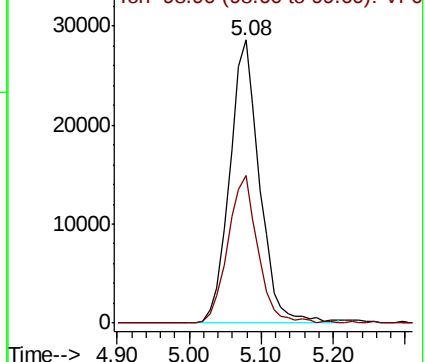
Ion Ratio Lower Upper

168 100

99 52.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.41 min Scan# 89

Delta R.T. 0.01 min

Lab File: VF062484.D

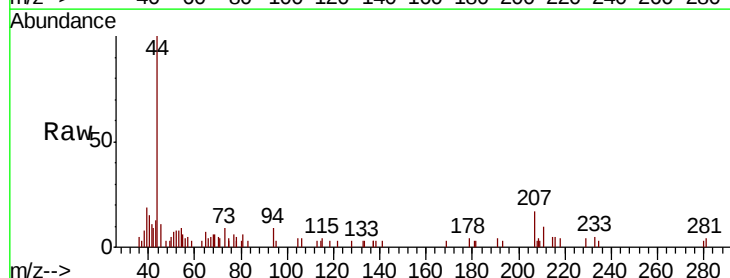
Acq: 12 May 2019 3:51

Tgt Ion: 94 Resp: 206

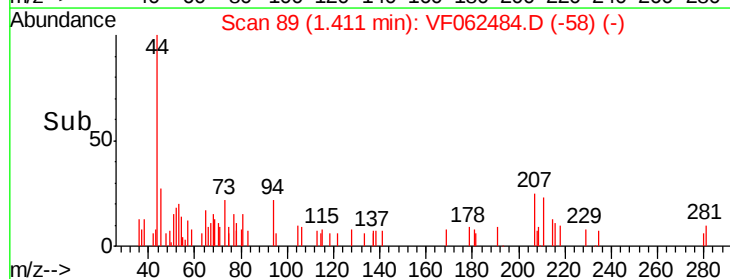
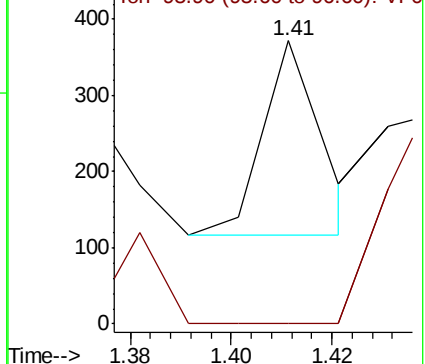
Ion Ratio Lower Upper

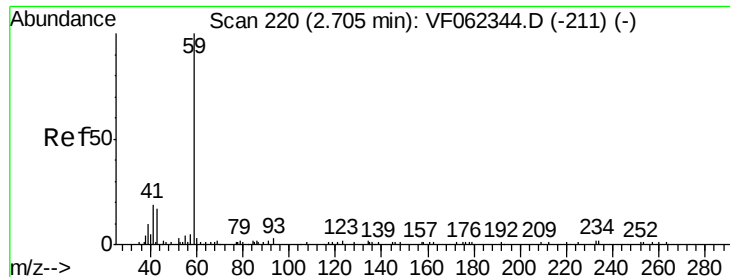
94 100

96 0.0 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0



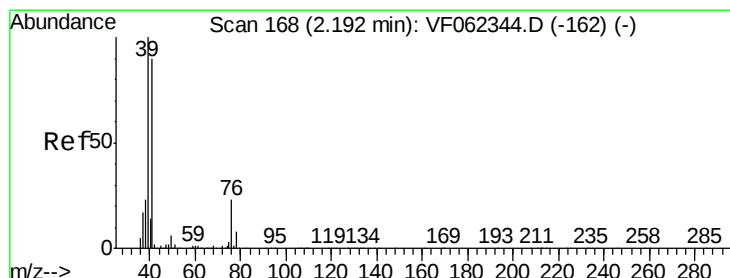
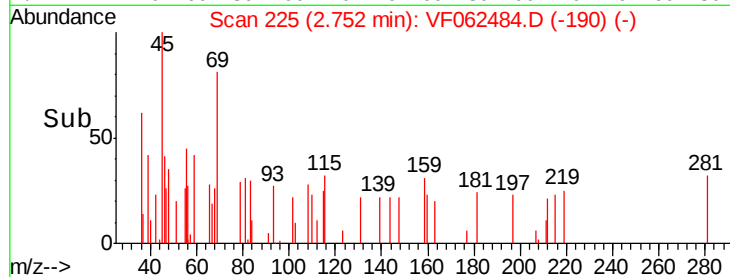
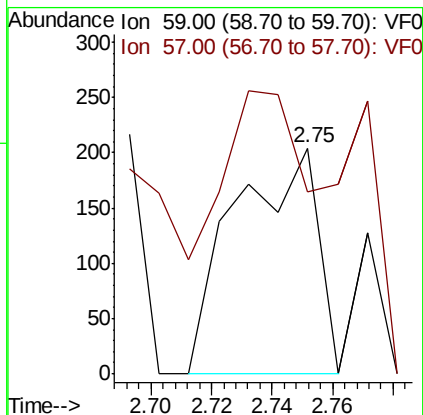
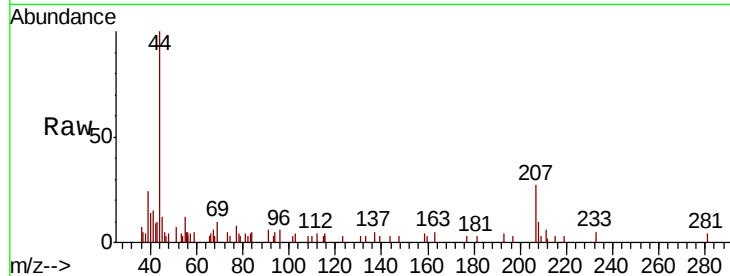


#11

Tert butyl alcohol
Concen: 8.841 ug/l
RT: 2.75 min Scan# 225
Delta R.T. 0.05 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Instrument :
MSVOA_F
ClientSampled :

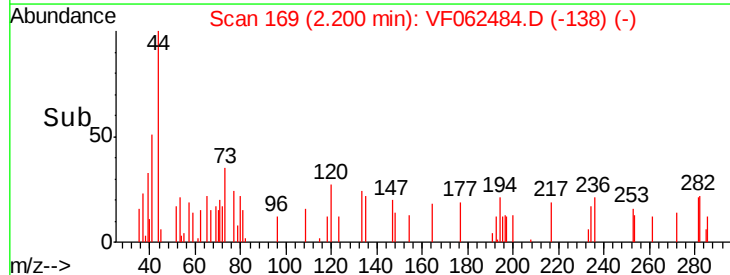
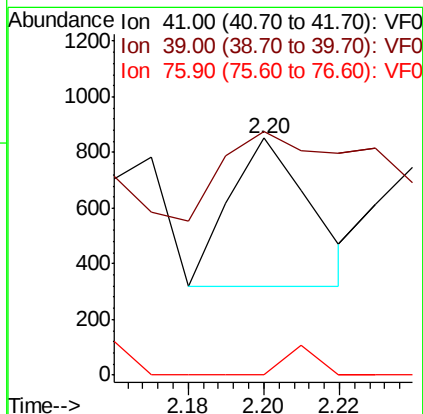
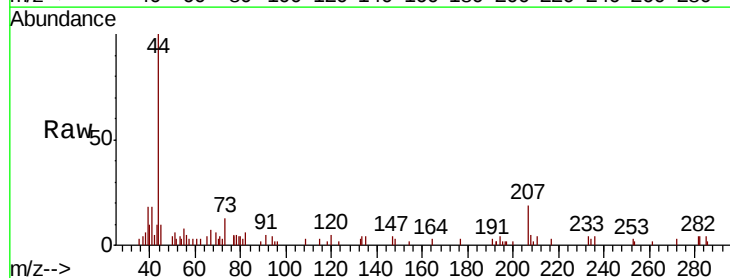
Tot Ion: 59 Resp: 390
Ion Ratio Lower Upper
59 100
57 209.2 9.3 13.9#



#14

Allyl chloride
Concen: 1.412 ug/l
RT: 2.20 min Scan# 169
Delta R.T. 0.01 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion: 41 Resp: 790
Ion Ratio Lower Upper
41 100
39 146.8 90.8 136.2#
76 8.1 22.2 33.4#





#15

Acrylonitrile

Concen: 2.549 ug/l

RT: 3.10 min Scan# 260

Delta R.T. 0.01 min

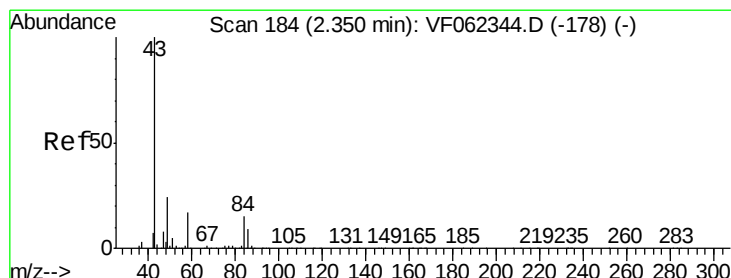
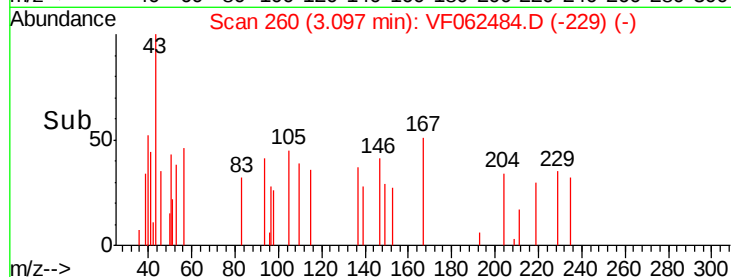
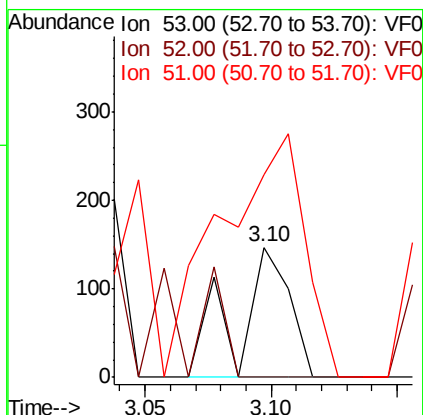
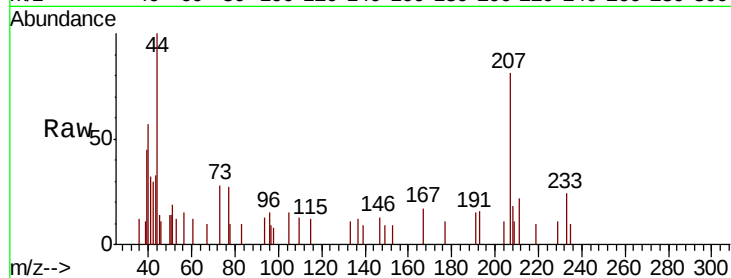
Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 53 Resp: 213

Ion	Ratio	Lower	Upper
53	100		
52	0.0	77.2	115.8#
51	303.3	40.6	61.0#



#16

Acetone

Concen: 11.115 ug/l

RT: 2.37 min Scan# 186

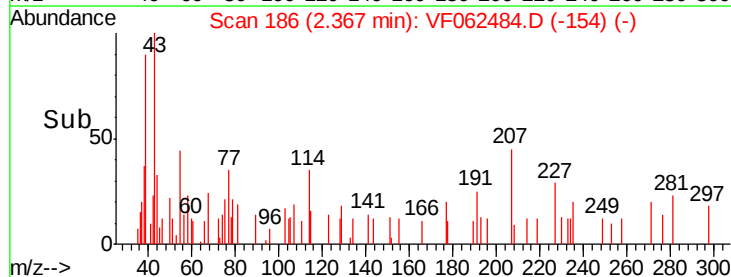
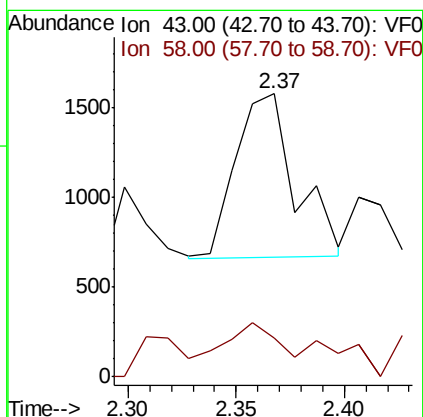
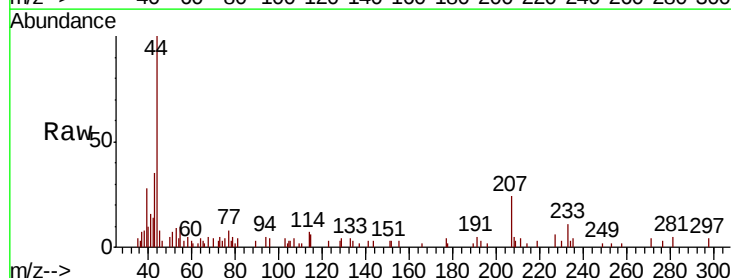
Delta R.T. 0.02 min

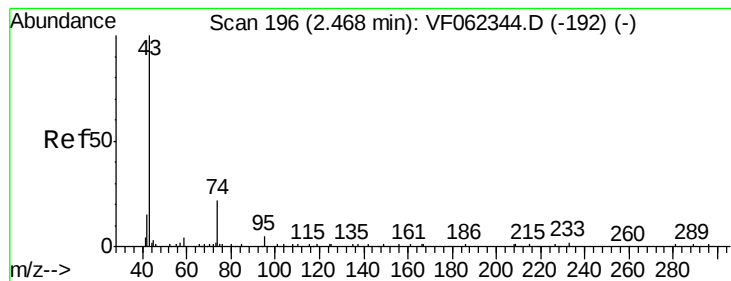
Lab File: VF062484.D

Acq: 12 May 2019 3:51

Tgt Ion: 43 Resp: 1755

Ion	Ratio	Lower	Upper
43	100		
58	13.0	13.1	19.7#





#18

Methyl Acetate

Concen: Below Cal

RT: 2.47 min Scan# 196

Delta R.T. -0.00 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

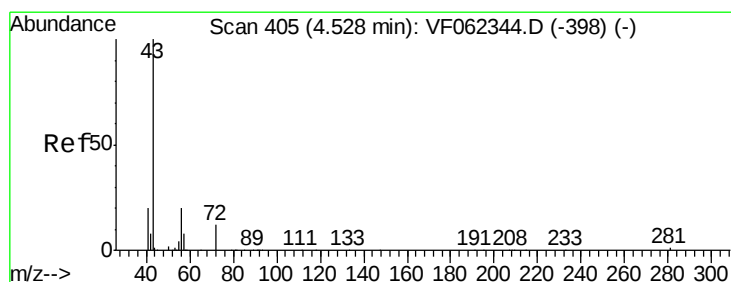
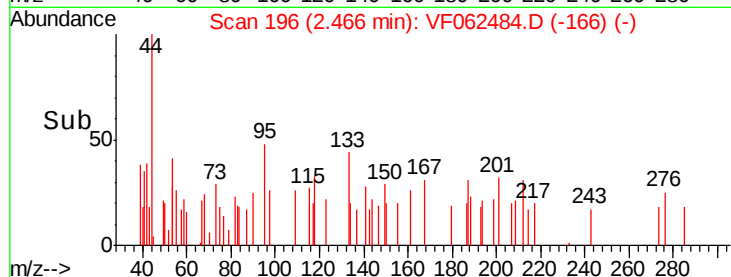
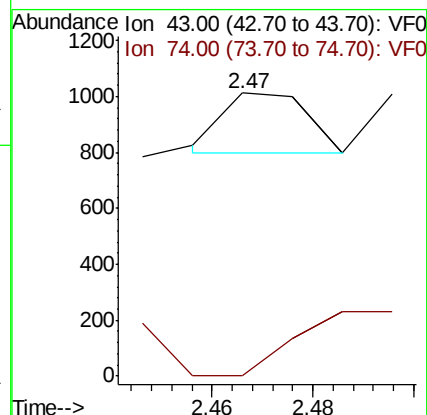
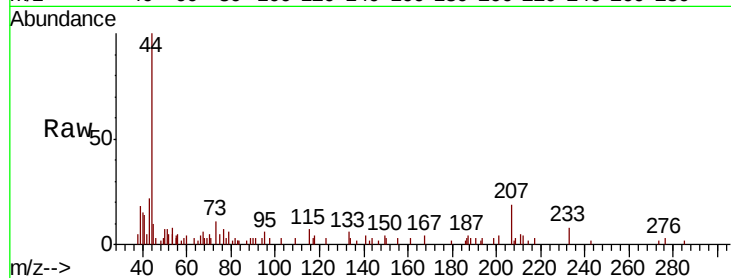
ClientSampled :

Tot Ion: 43 Resp: 244

Ion Ratio Lower Upper

43 100

74 182.8 15.0 22.4#



#25

2-Butanone

Concen: 2.768 ug/l

RT: 4.54 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF062484.D

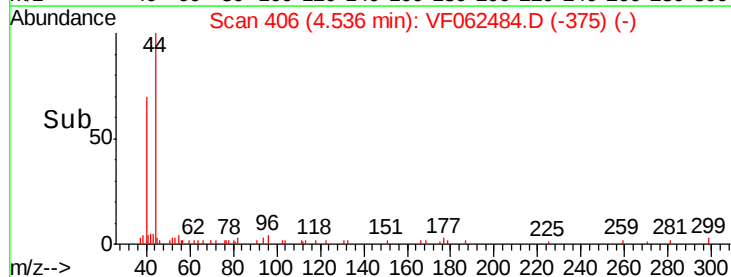
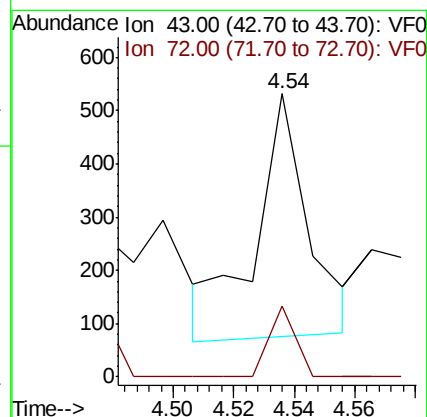
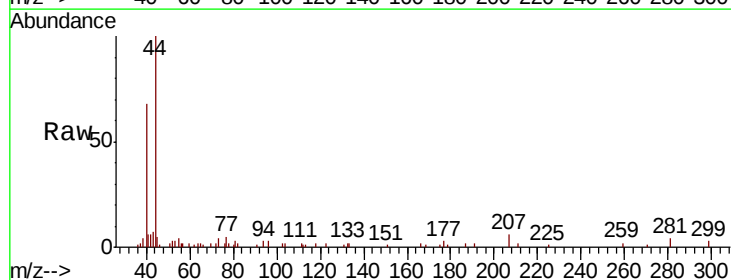
Acq: 12 May 2019 3:51

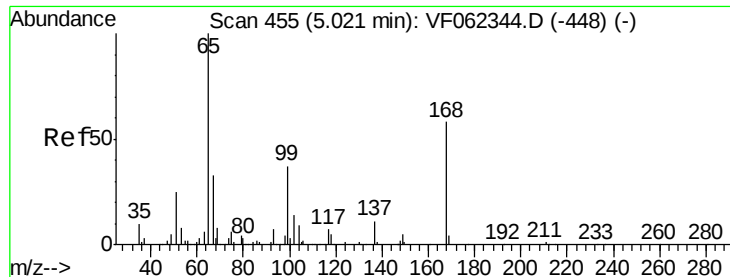
Tgt Ion: 43 Resp: 549

Ion Ratio Lower Upper

43 100

72 36.7 14.2 21.4#





#33

1,2-Dichloroethane-d4

Concen: 29.883 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

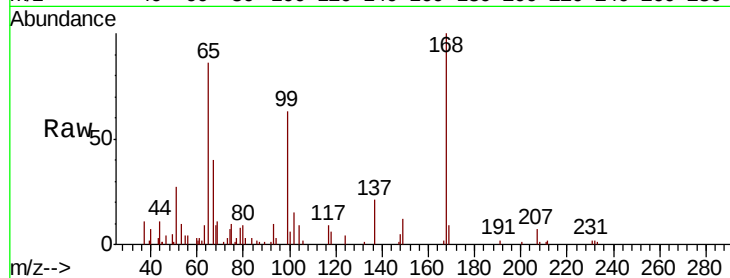
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 65 Resp: 23324

Ion Ratio Lower Upper

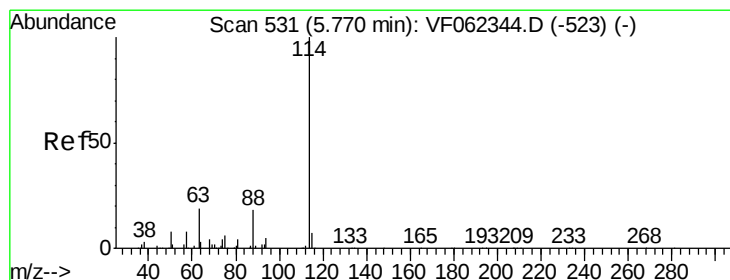
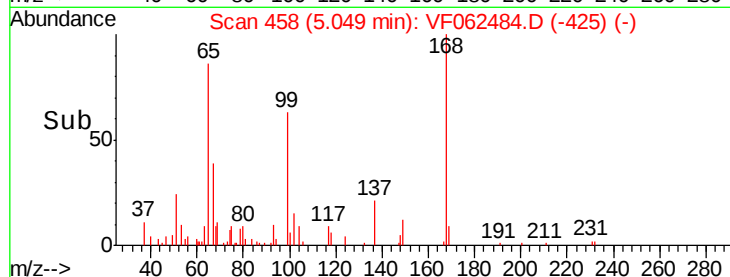
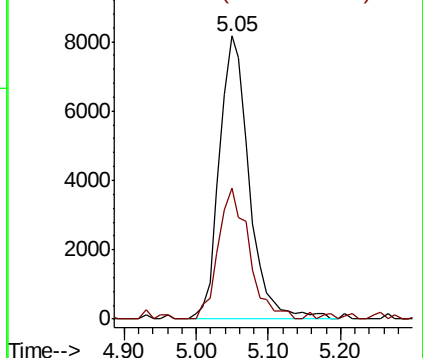
65 100

67 47.8 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: 5.80 min Scan# 534

Delta R.T. 0.03 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

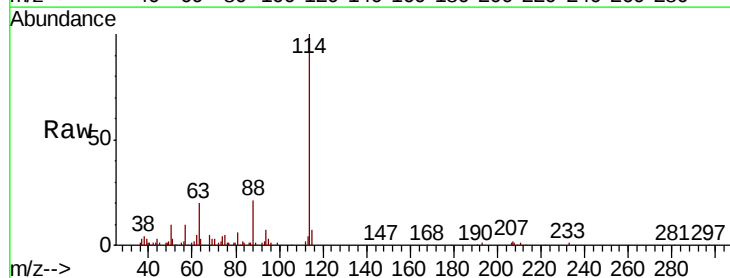
Tgt Ion: 114 Resp: 81988

Ion Ratio Lower Upper

114 100

63 20.0 0.0 37.4

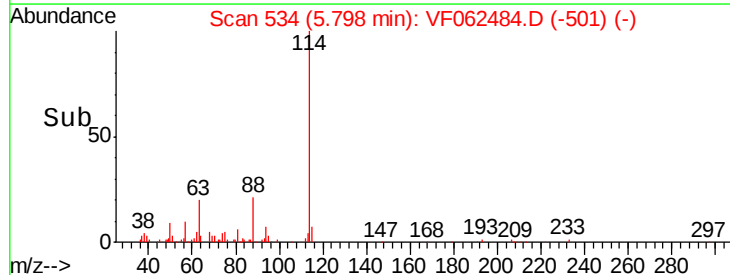
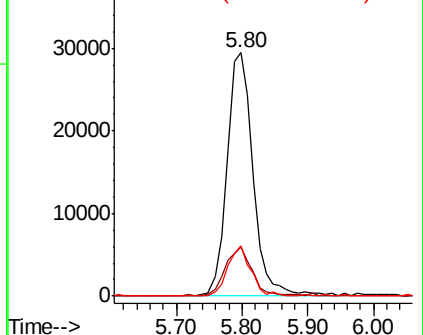
88 20.8 0.0 36.4

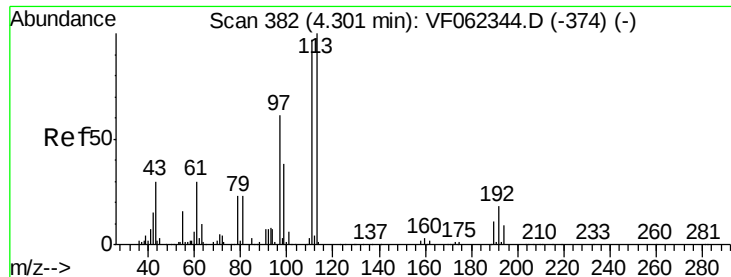


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

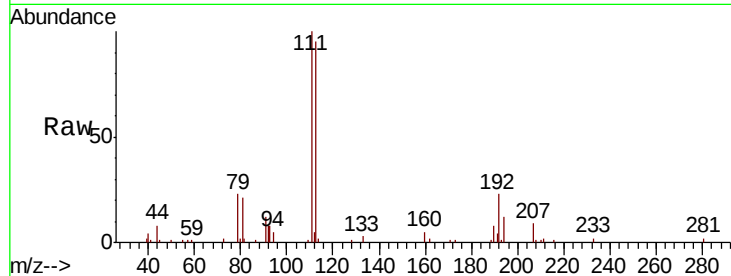




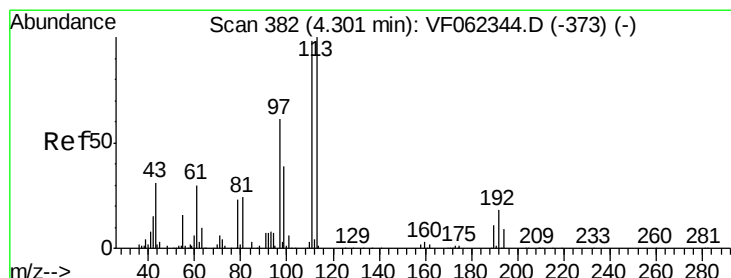
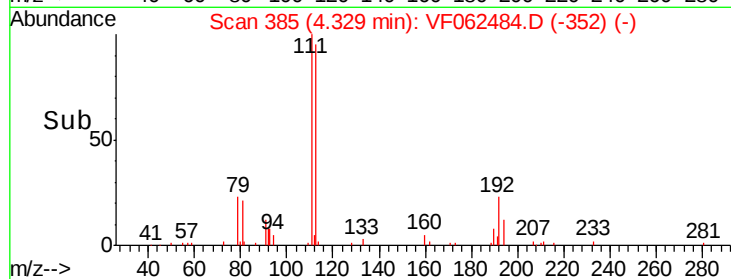
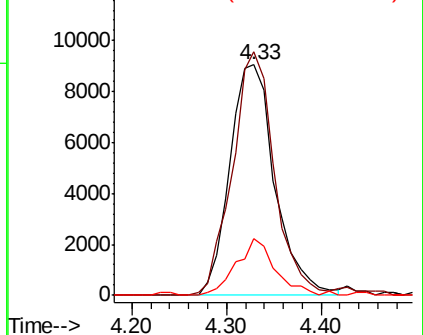
#35
Dibromofluoromethane
Concen: 45.871 ug/l
RT: 4.33 min Scan# 385
Delta R.T. 0.03 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 29962
Ion Ratio Lower Upper
113 100
111 98.2 79.4 119.0
192 21.2 16.0 24.0

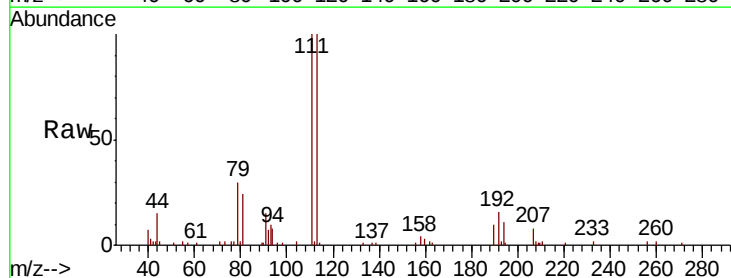


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

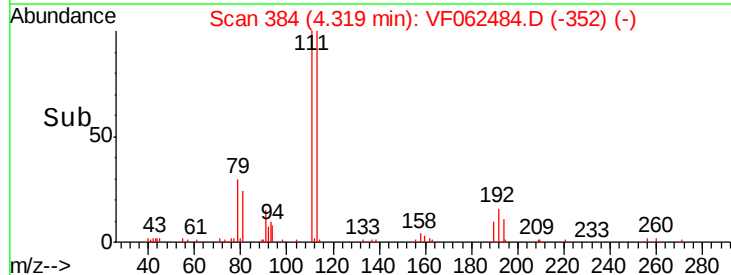
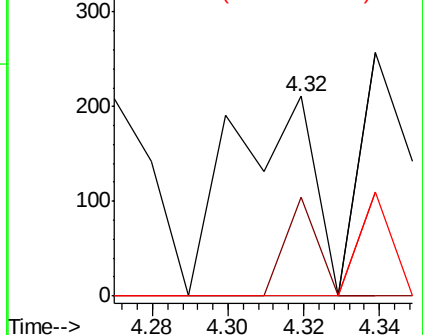


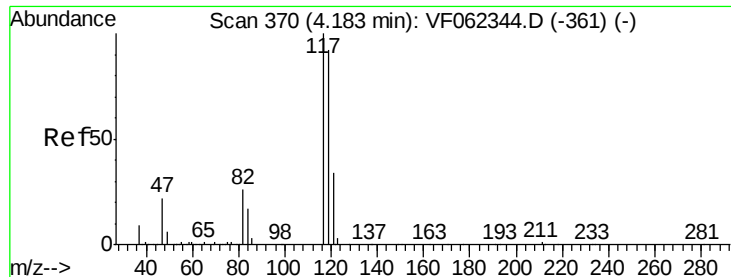
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 384
Delta R.T. 0.02 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion: 43 Resp: 315
Ion Ratio Lower Upper
43 100
61 19.7 0.0 0.0#
70 20.6 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: 4.22 min Scan# 374

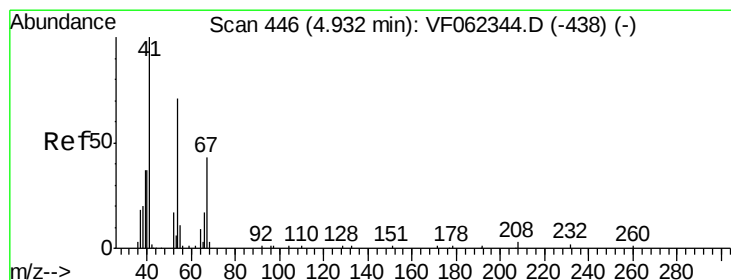
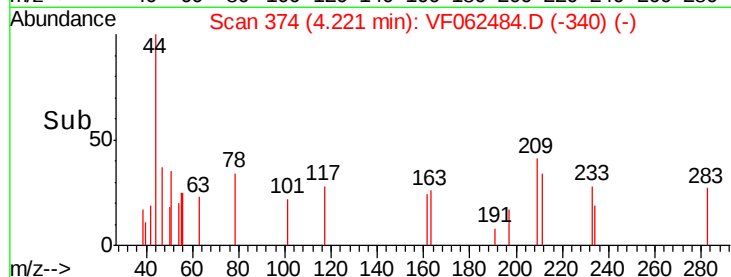
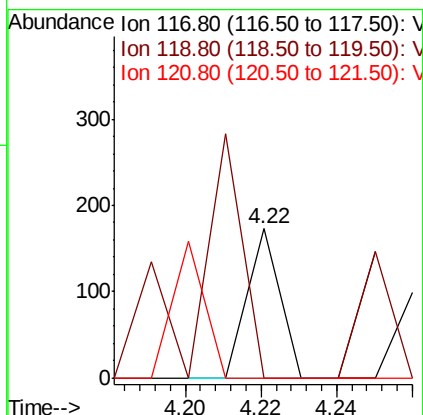
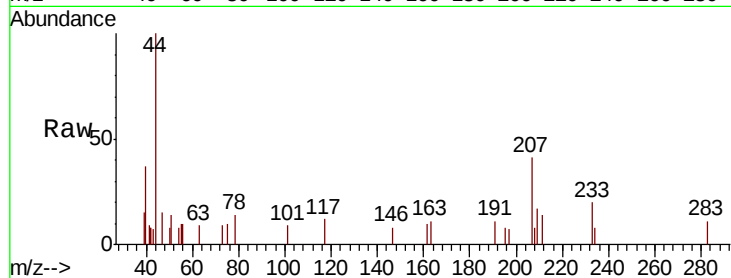
Delta R.T. 0.04 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
117	100		
119	0.0	73.4	110.2#
121	0.0	27.4	41.0#



#41

Methacrylonitrile

Concen: 1.001 ug/l

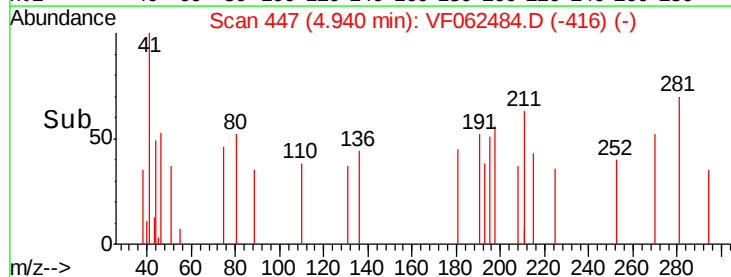
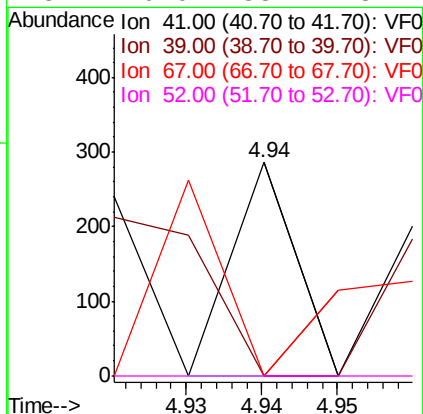
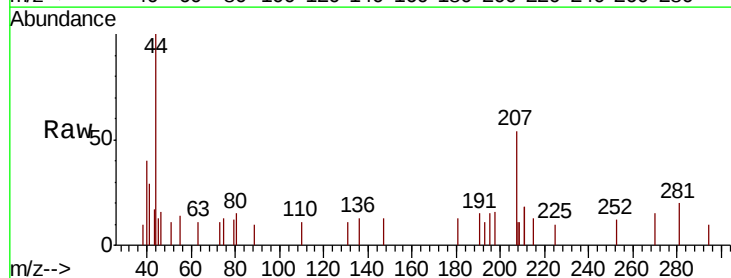
RT: 4.94 min Scan# 447

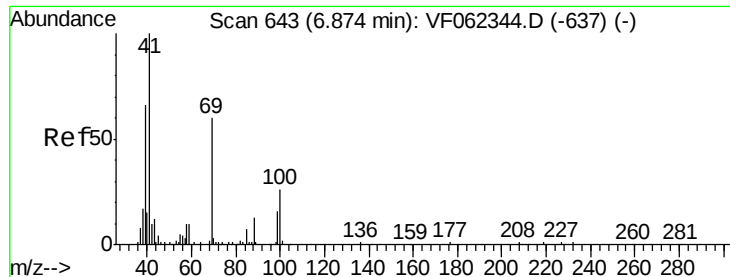
Delta R.T. 0.01 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Tgt Ion	Ratio	Lower	Upper
41	100		
39	279.9	54.3	81.5#
67	0.0	37.8	56.8#
52	0.0	58.2	87.4#

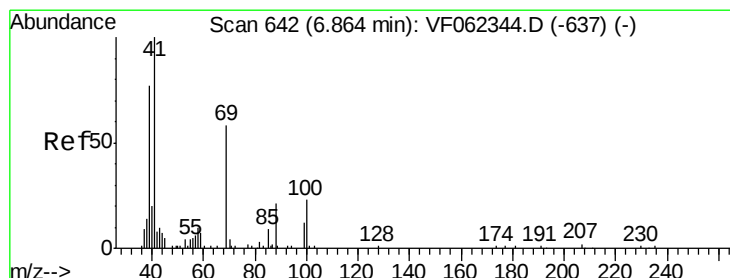
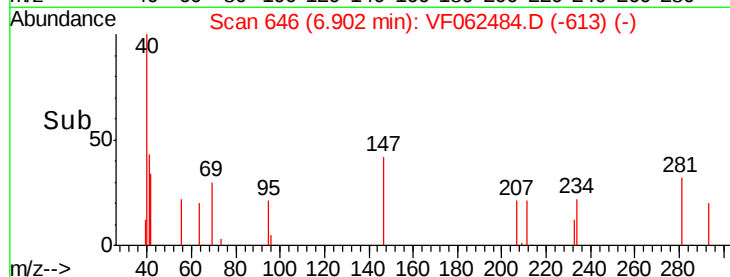
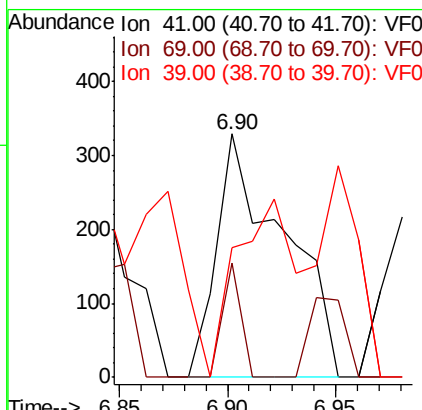
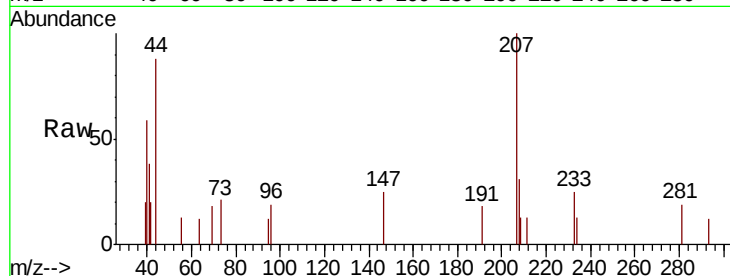




#48
Methvl methacrylate
Concen: 3.136 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.03 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

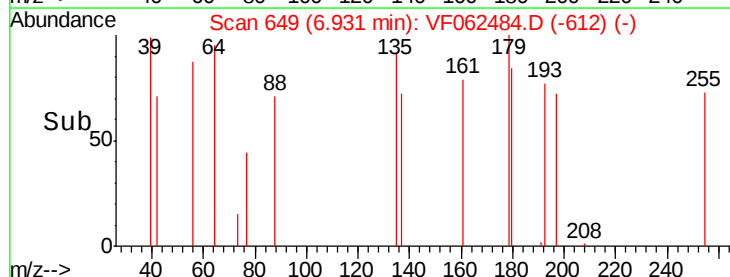
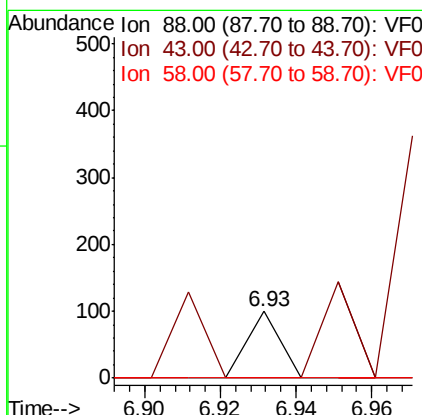
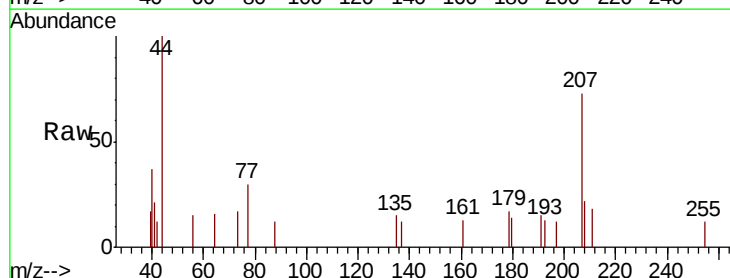
Instrument :
MSVOA_F
ClientSampled :

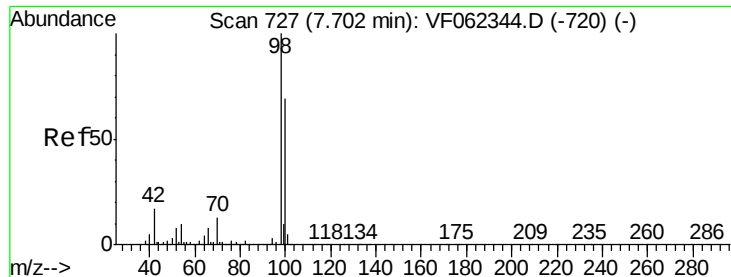
Tot Ion: 41 Resp: 710
Ion Ratio Lower Upper
41 100
69 13.0 48.6 72.8#
39 61.7 56.1 84.1



#49
1,4-Dioxane
Concen: 12.435 ug/l
RT: 6.93 min Scan# 649
Delta R.T. 0.07 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 128.8 55.6 83.4#
58 0.0 52.8 79.2#





#50

Toluene-d8

Concen: 31.553 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.03 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

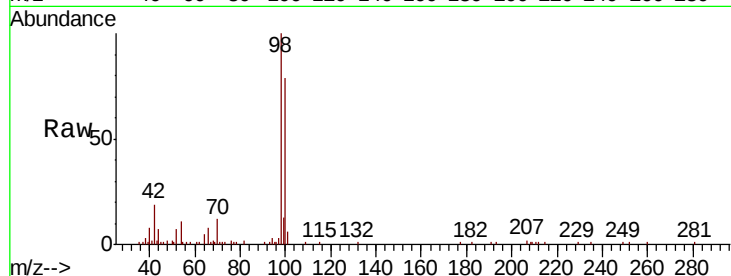
ClientSampleId :

Tot Ion: 98 Resp: 49890

Ion Ratio Lower Upper

98 100

100 73.8 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.73

20000

15000

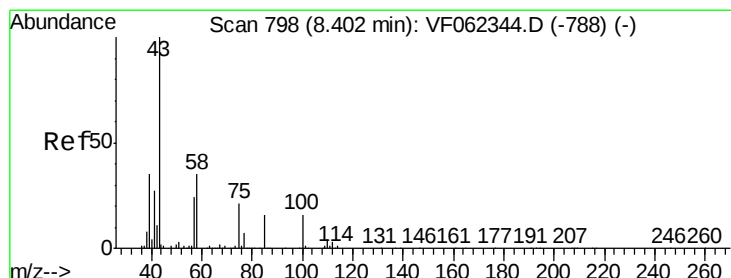
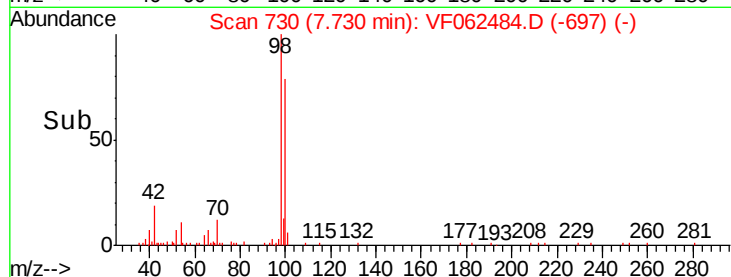
10000

5000

0

7.60 7.70 7.80 7.90

Time-->



#51

4-Methyl-2-Pentanone

Concen: 4.025 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.02 min

Lab File: VF062484.D

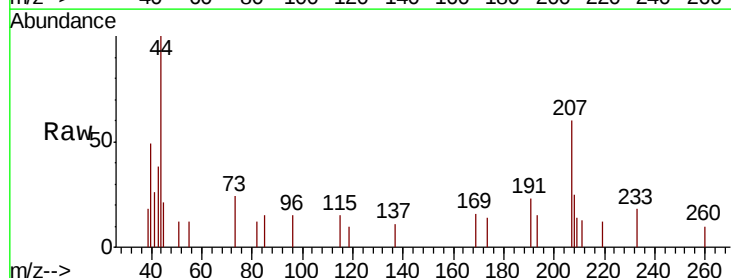
Acq: 12 May 2019 3:51

Tgt Ion: 43 Resp: 977

Ion Ratio Lower Upper

43 100

58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.42

400

300

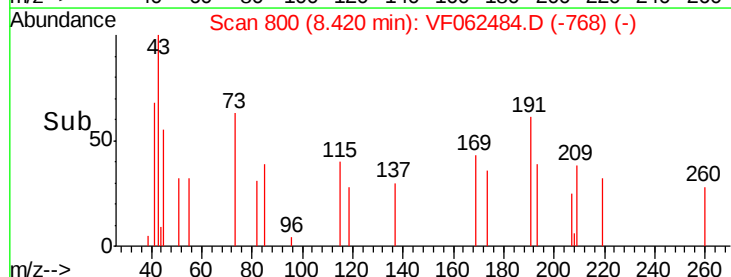
200

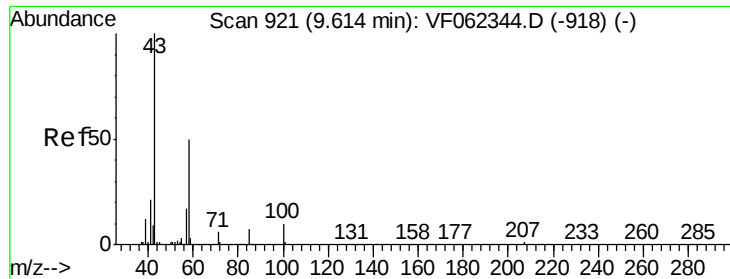
100

0

8.40 8.45

Time-->

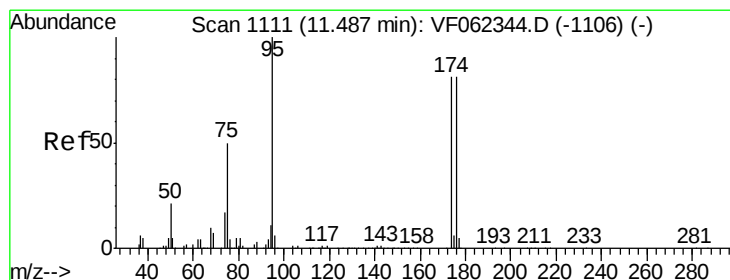
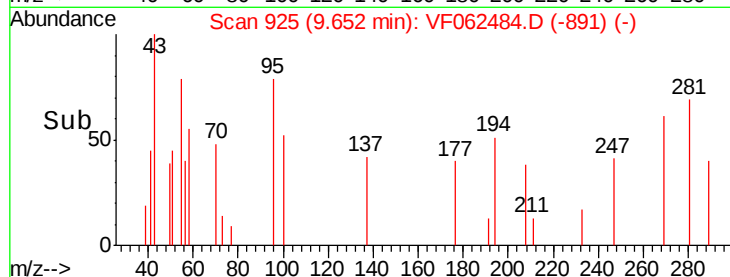
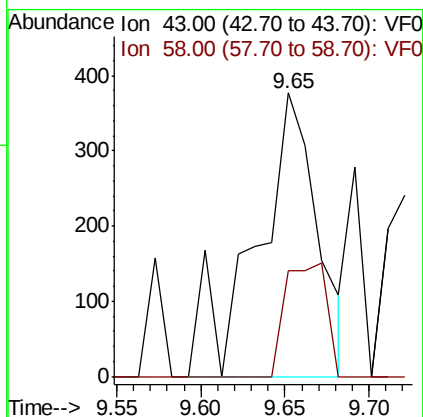
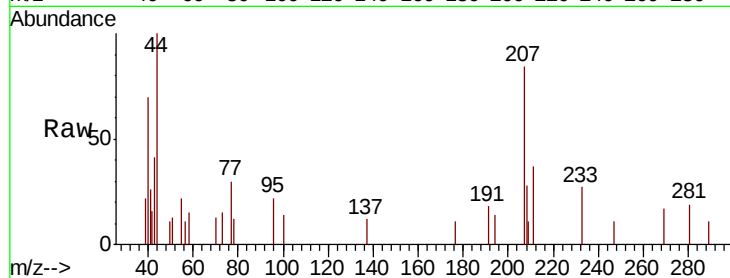




#59
2-Hexanone
Concen: 5.736 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.04 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

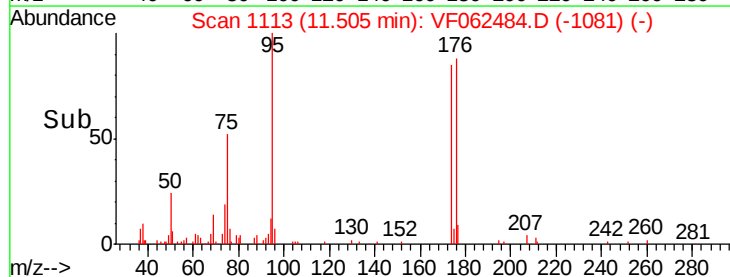
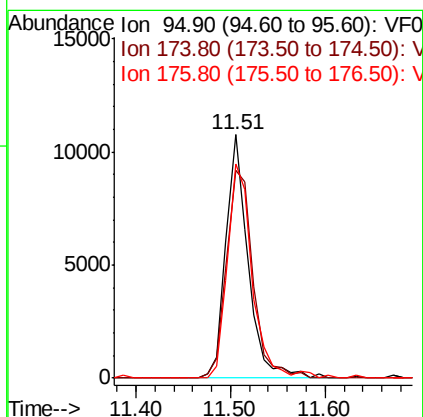
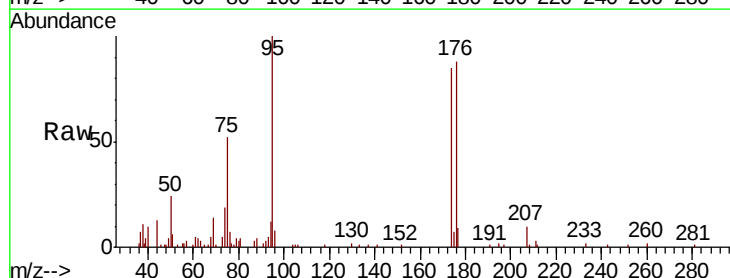
Instrument :
MSVOA_F
ClientSampled :

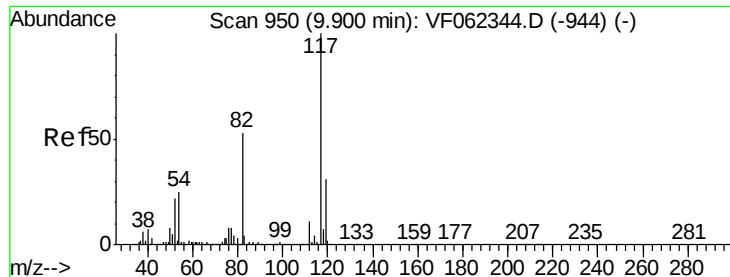
Tot Ion: 43 Resp: 963
Ion Ratio Lower Upper
43 100
58 26.6 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 24.651 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion: 95 Resp: 17585
Ion Ratio Lower Upper
95 100
174 102.0 0.0 191.8
176 98.3 0.0 193.2

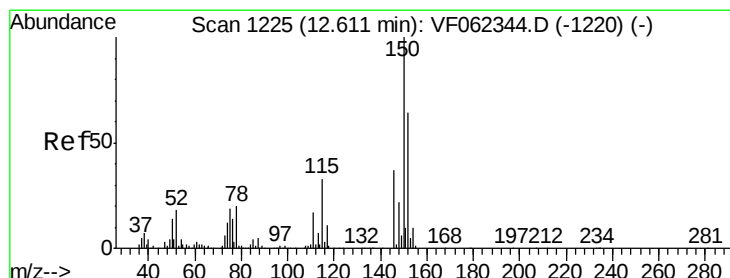
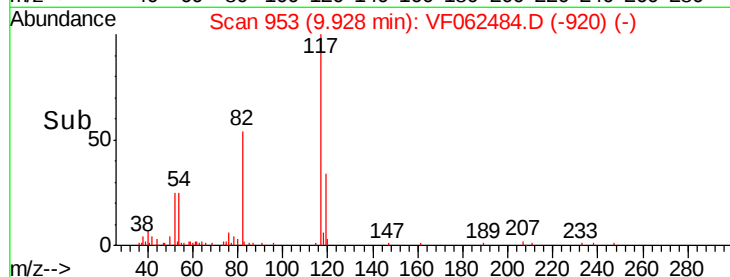
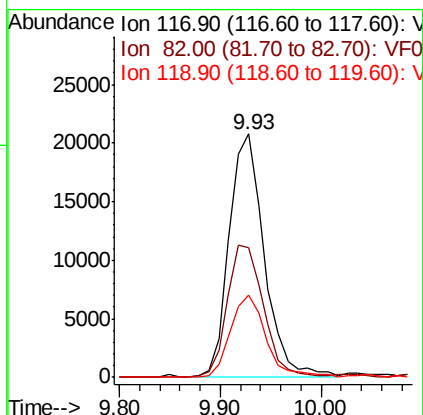
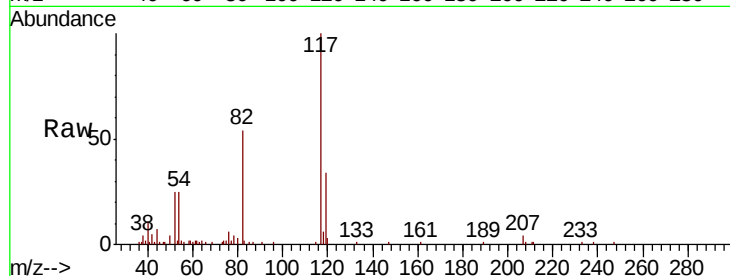




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.03 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

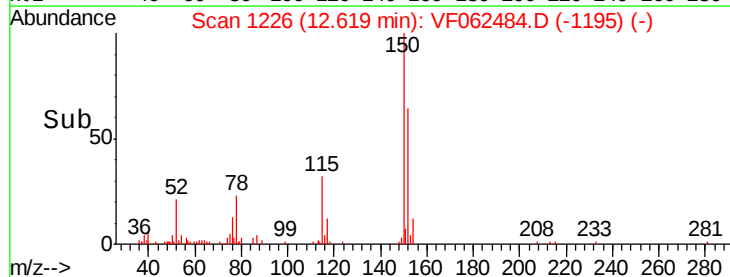
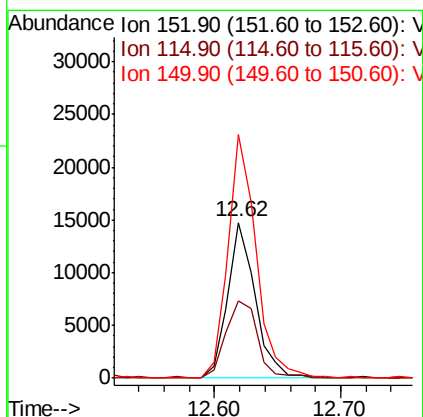
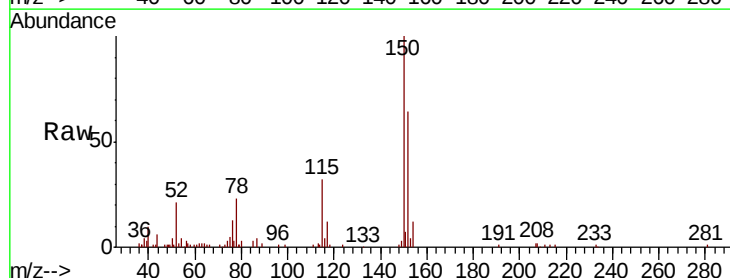
Instrument :
MSVOA_F
ClientSampled :

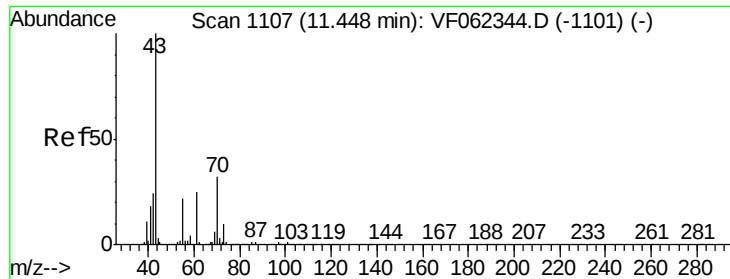
Tot Ion:117 Resp: 50395
Ion Ratio Lower Upper
117 100
82 53.5 42.2 63.2
119 33.6 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062484.D
Acq: 12 May 2019 3:51

Tgt Ion:152 Resp: 22343
Ion Ratio Lower Upper
152 100
115 56.9 26.4 79.2
150 158.6 0.0 335.0





#74

N-amvl acetate

Concen: 1.066 ug/l

RT: 11.48 min Scan# 1110

Delta R.T. 0.03 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 303

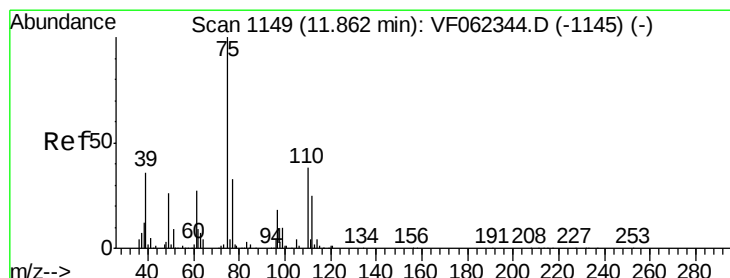
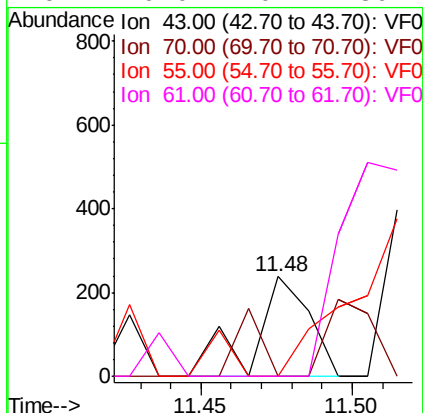
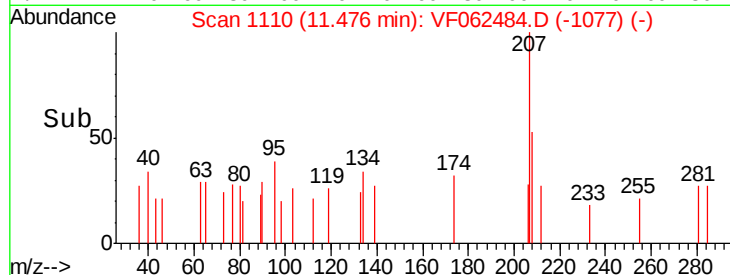
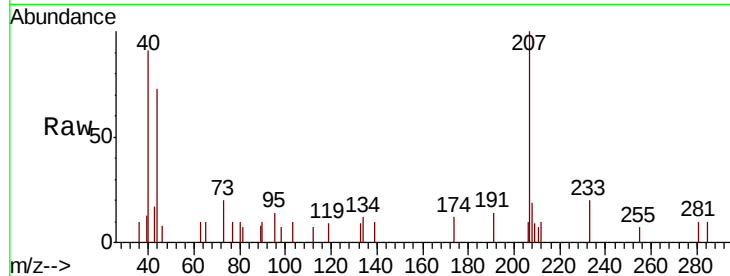
Ion Ratio Lower Upper

43 100

70 31.7 26.5 39.7

55 21.8 17.8 26.6

61 0.0 20.2 30.2#



#76

1,2,3-Trichloropropane

Concen: 1.176 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. 0.02 min

Lab File: VF062484.D

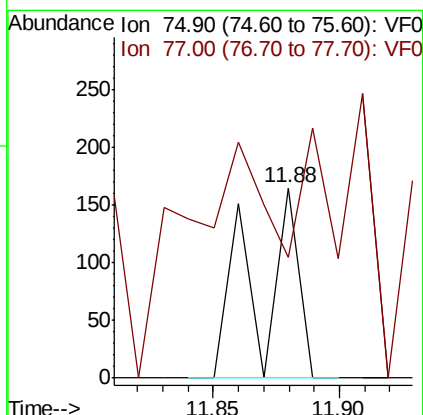
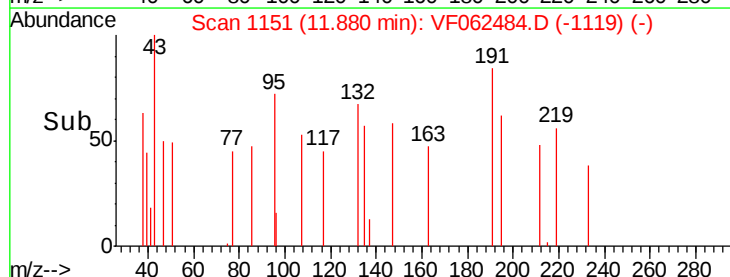
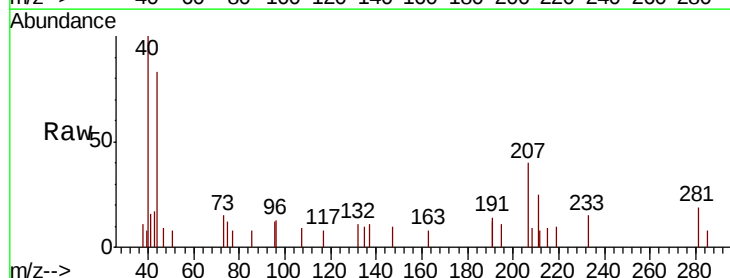
Acq: 12 May 2019 3:51

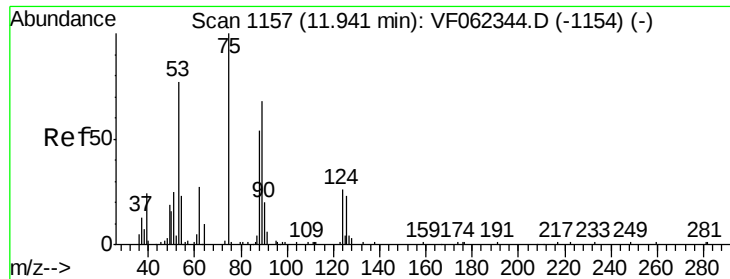
Tgt Ion: 75 Resp: 186

Ion Ratio Lower Upper

75 100

77 277.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 1.126 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.01 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampleId :

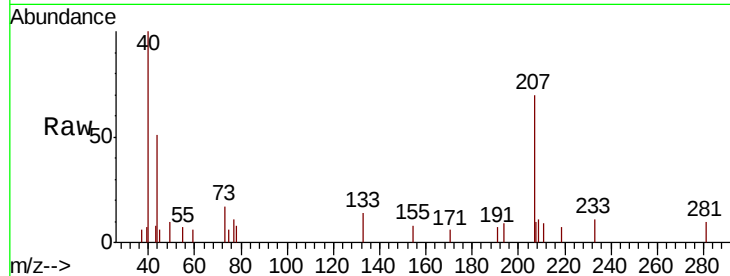
Tot Ion: 75 Resp: 67

Ion Ratio Lower Upper

75 100

53 95.5 71.9 107.9

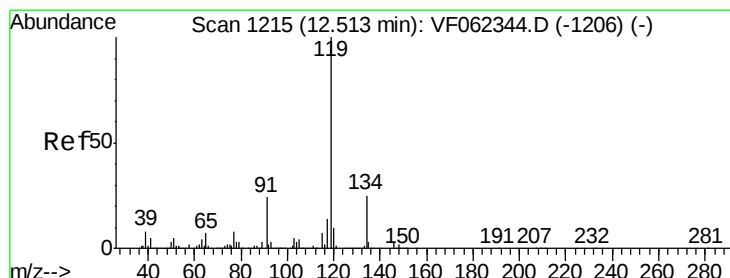
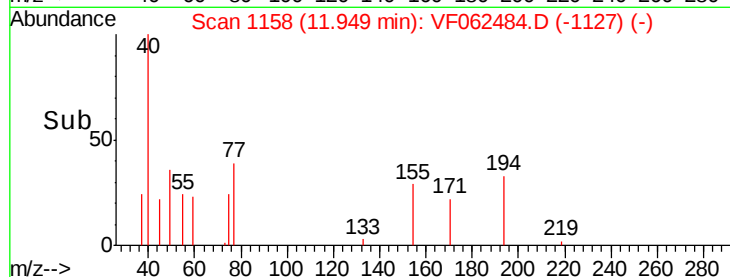
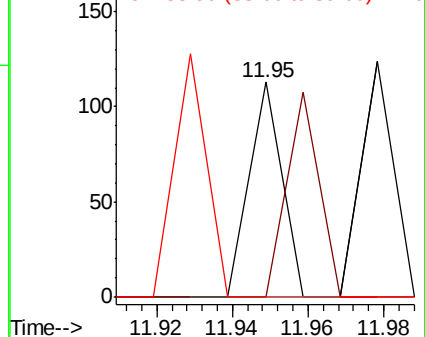
89 0.0 0.0 0.0



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



#86

p-Isopropyltoluene

Concen: 1.016 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. 0.02 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

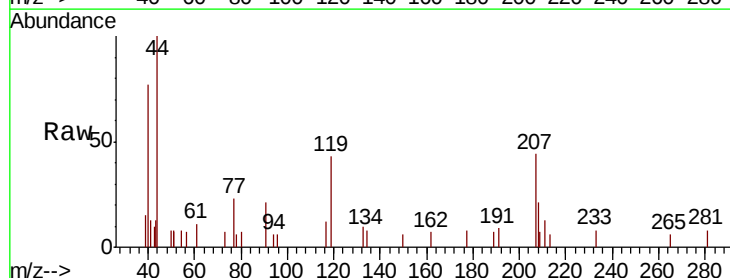
Tgt Ion: 119 Resp: 1402

Ion Ratio Lower Upper

119 100

134 25.5 12.9 38.7

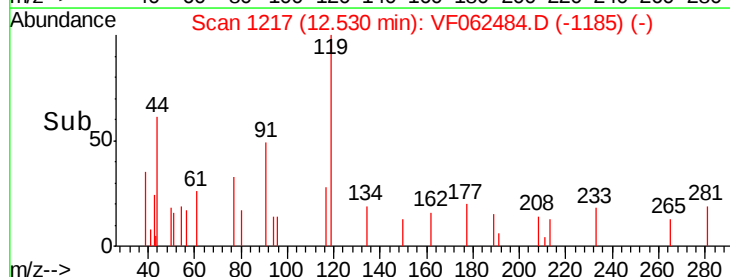
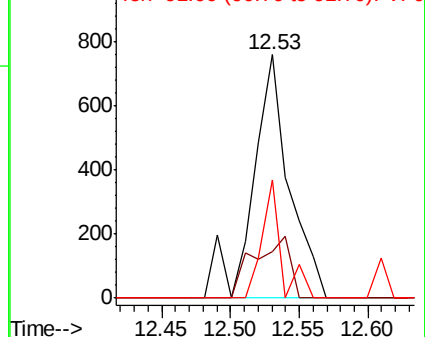
91 25.5 12.3 36.8

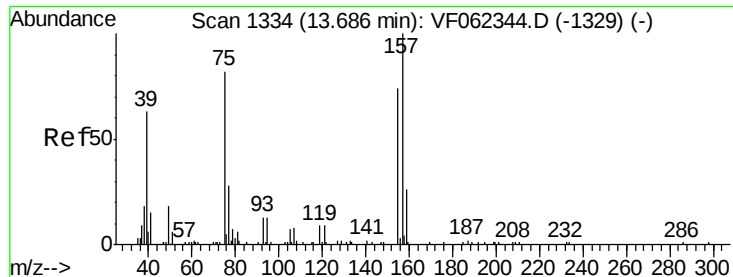


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.334 ug/l

RT: 13.80 min Scan# 1346

Delta R.T. 0.12 min

Lab File: VF062484.D

Acq: 12 May 2019 3:51

Instrument :

MSVOA_F

ClientSampleId :

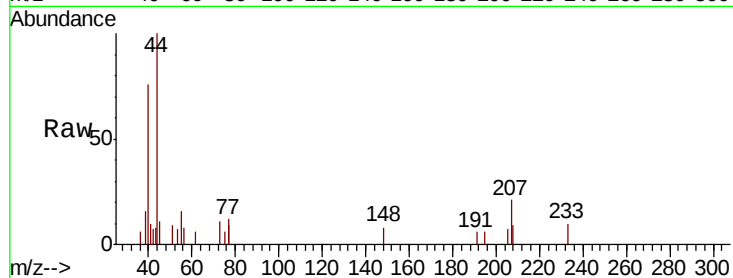
Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

157 0.0 67.3 201.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

