

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062470.D
 Acq On : 11 May 2019 19:55
 Operator : FY/SY
 Sample : K2734-18
 Misc : 5.88/5mL/MSVOA F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: May 12 03:49:17 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	5.05	168	138832	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	216435	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	174875	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	97034	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	138722	105.73	ug/l	0.01
Spiked Amount			Recovery	=	211.46%	
35) Dibromofluoromethane	4.32	113	159415	92.45	ug/l	0.01
Spiked Amount			Recovery	=	184.90%	
50) Toluene-d8	7.72	98	168039	40.26	ug/l	0.01
Spiked Amount			Recovery	=	80.52%	
62) 4-Bromofluorobenzene	11.50	95	76926	40.85	ug/l	0.01
Spiked Amount			Recovery	=	81.70%	

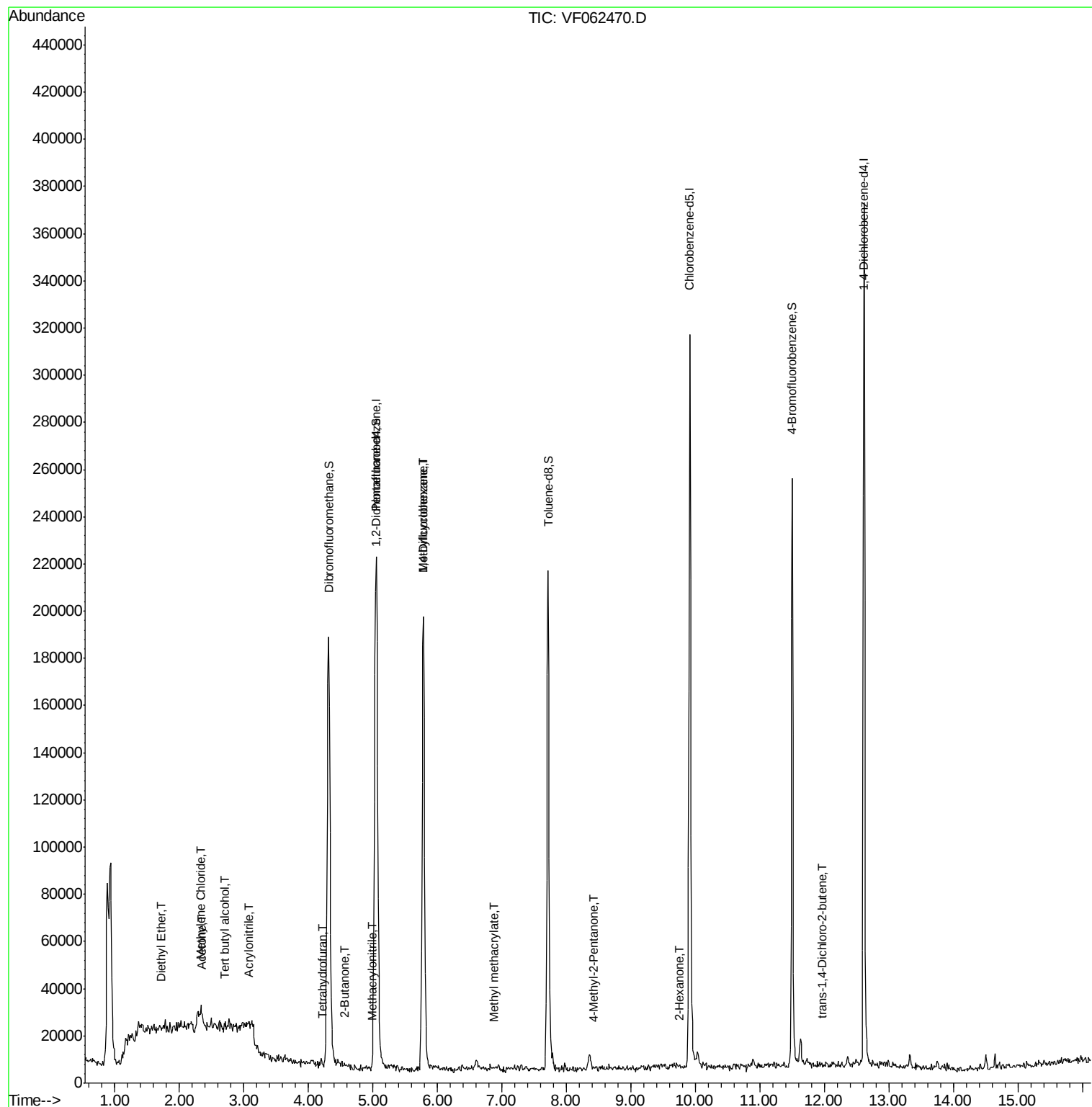
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	662	Below Cal	#	18
8) Diethyl Ether	1.71	74	880	2.652	ug/l	60
11) Tert butyl alcohol	2.70	59	956	12.892	ug/l #	70
13) Acrolein	2.09	56	419	Below Cal	#	1
15) Acrylonitrile	3.07	53	429	3.054	ug/l #	73
16) Acetone	2.36	43	3775	14.223	ug/l #	64
18) Methyl Acetate	2.48	43	972	Below Cal	#	77
20) Methylene Chloride	2.32	84	4849	5.050	ug/l #	92
25) 2-Butanone	4.57	43	1500	4.499	ug/l #	60
29) Tetrahydrofuran	4.23	42	336	2.193	ug/l #	50
37) Ethyl Acetate	4.30	43	747	Below Cal	#	73
38) Carbon Tetrachloride	4.14	117	140	Below Cal	#	14
39) Methylcyclohexane	5.78	83	4264	2.287	ug/l #	31
41) Methacrylonitrile	4.98	41	1101	2.470	ug/l #	47
48) Methyl methacrylate	6.88	41	887	1.484	ug/l #	26
49) 1,4-Dioxane	6.92	88	71	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.42	43	901	1.406	ug/l #	64
59) 2-Hexanone	9.76	43	531	1.198	ug/l	65
81) trans-1,4-Dichloro-2-buten	11.96	75	386	1.494	ug/l #	25

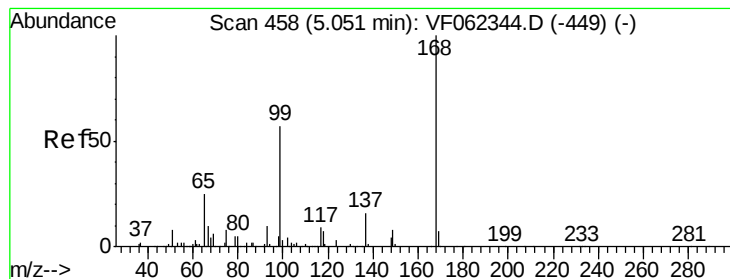
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.05 min Scan# 459

Delta R.T. 0.00 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

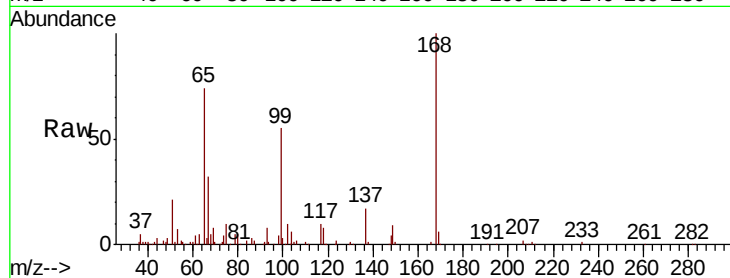
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:168 Resp: 138832

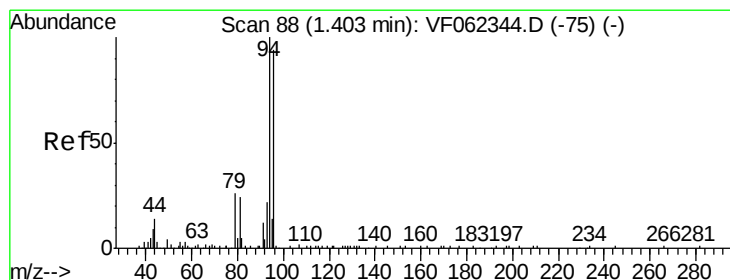
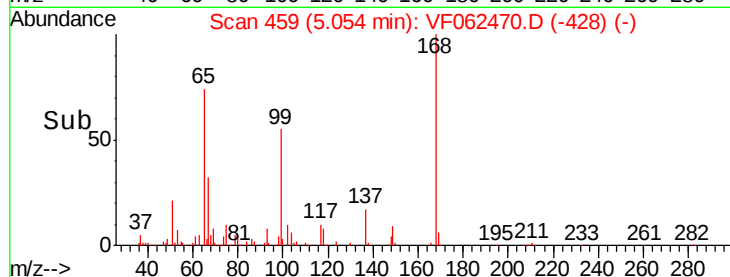
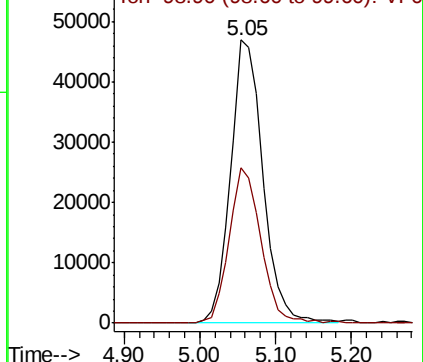
Ion Ratio Lower Upper

168 100

99 54.7 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.02 min

Lab File: VF062470.D

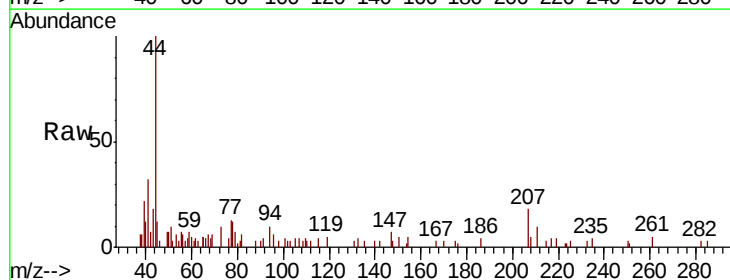
Acq: 11 May 2019 19:55

Tgt Ion: 94 Resp: 662

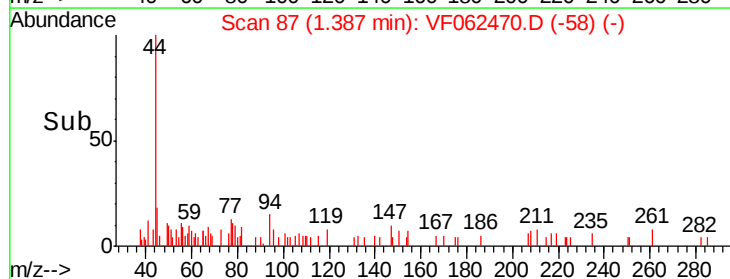
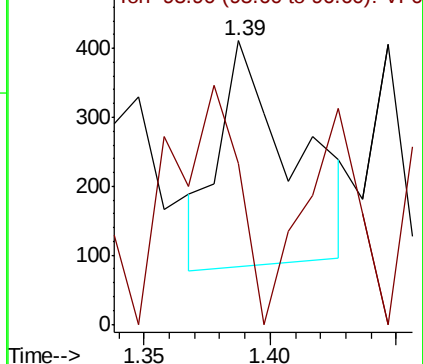
Ion Ratio Lower Upper

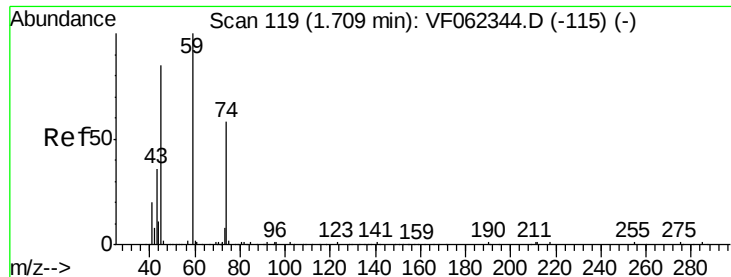
94 100

96 14.8 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

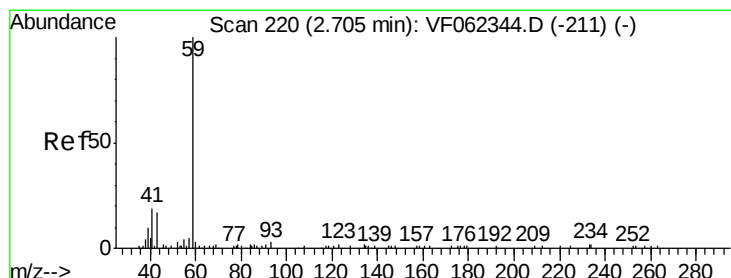
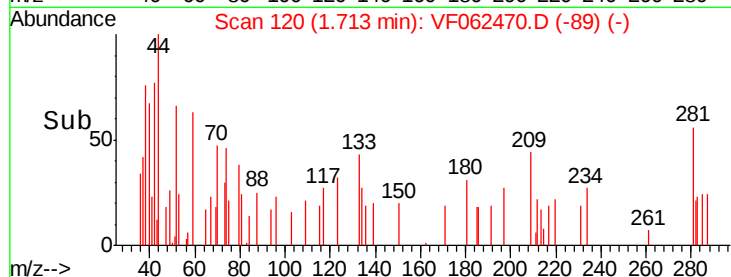
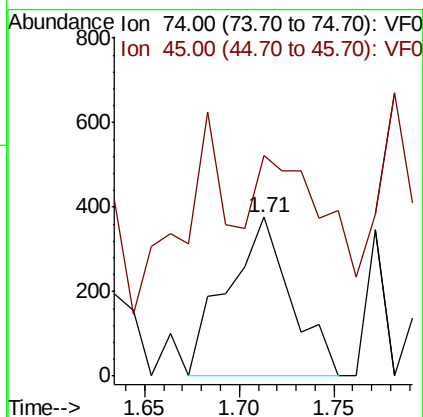
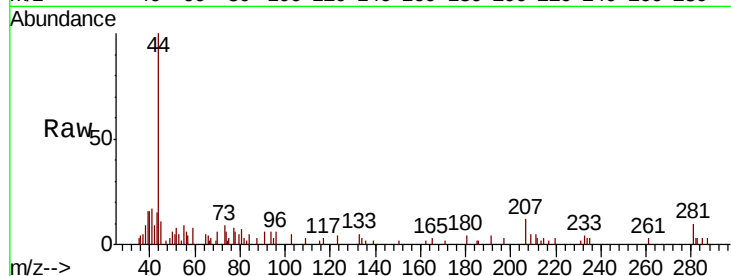




#8
Diethyl Ether
Concen: 2.652 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.00 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

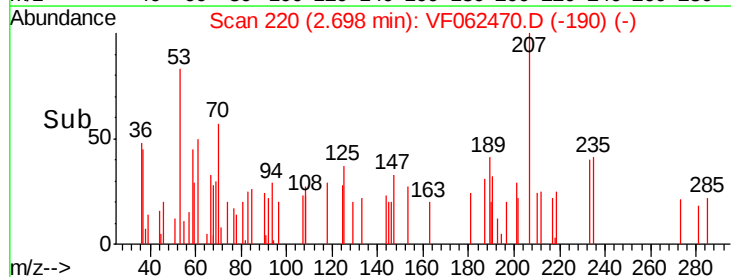
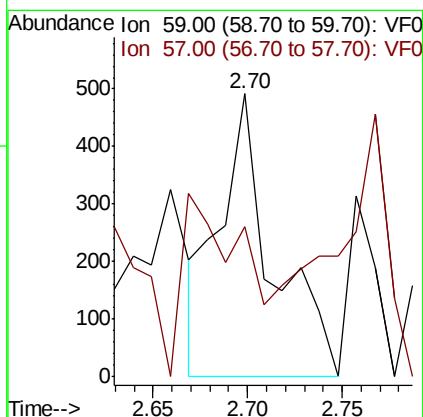
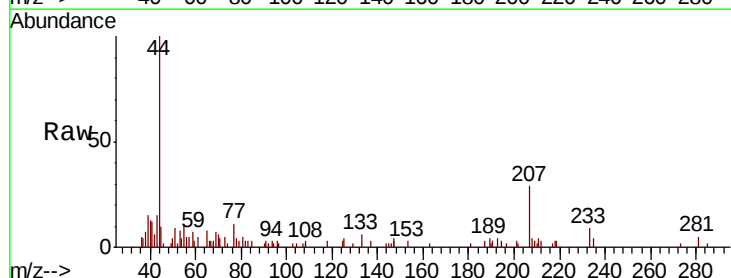
Instrument :
MSVOA_F
ClientSampled :

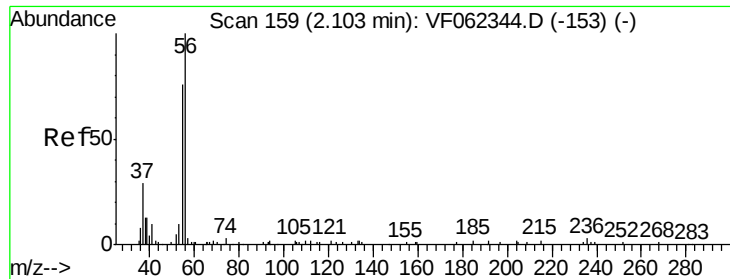
Tot Ion: 74 Resp: 880
Ion Ratio Lower Upper
74 100
45 97.4 73.9 221.6



#11
Tert butyl alcohol
Concen: 12.892 ug/l
RT: 2.70 min Scan# 220
Delta R.T. -0.01 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

Tgt Ion: 59 Resp: 956
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#





#13

Acrolein

Concen: Below Cal

RT: 2.09 min Scan# 158

Delta R.T. -0.02 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

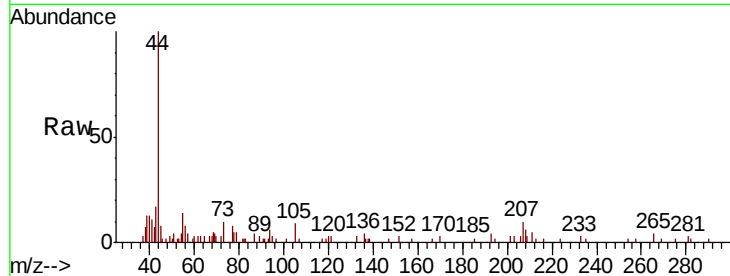
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 419

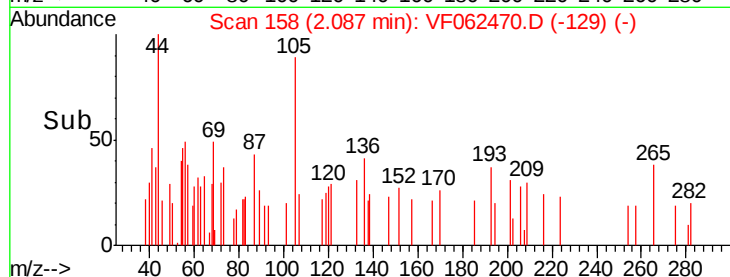
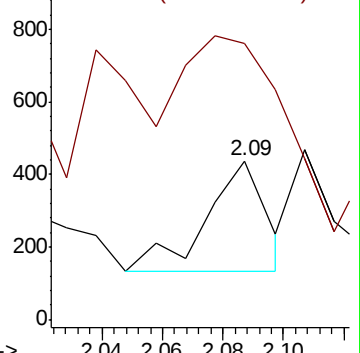
Ion Ratio Lower Upper

56 100

55 320.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0



#15

Acrylonitrile

Concen: 3.054 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.02 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

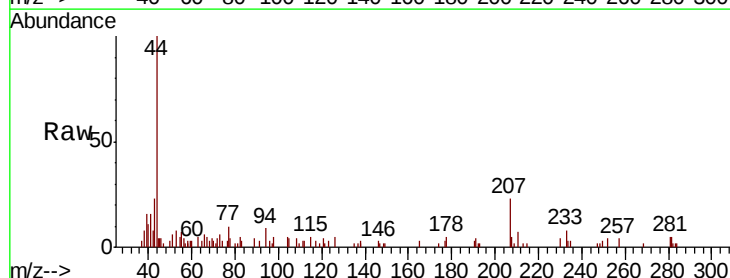
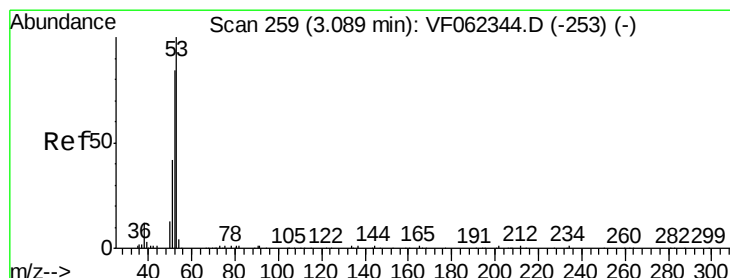
Tgt Ion: 53 Resp: 429

Ion Ratio Lower Upper

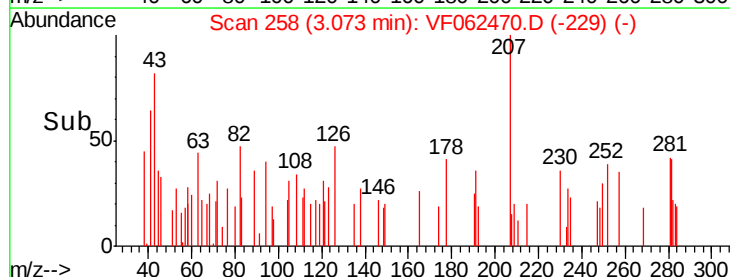
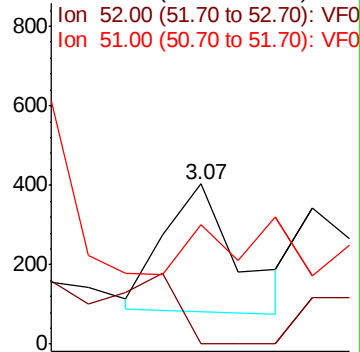
53 100

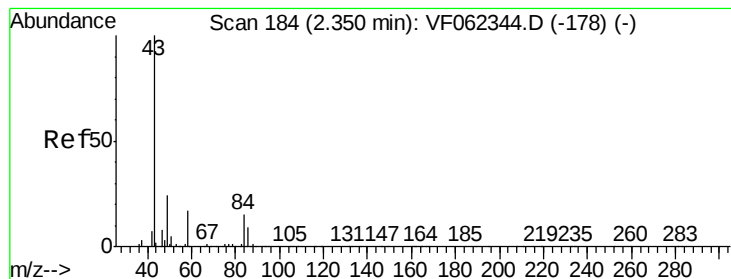
52 94.2 77.2 115.8

51 0.0 40.6 61.0#



Abundance Ion 53.00 (52.70 to 53.70): VF0





#16

Acetone

Concen: 14.223 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

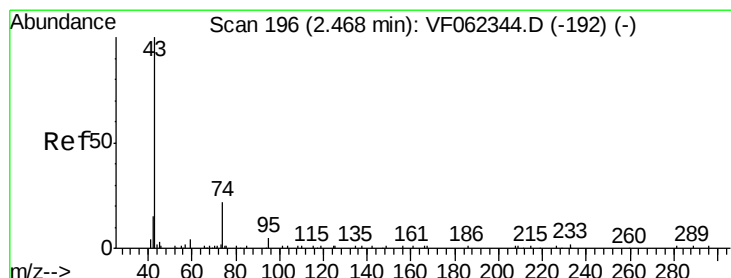
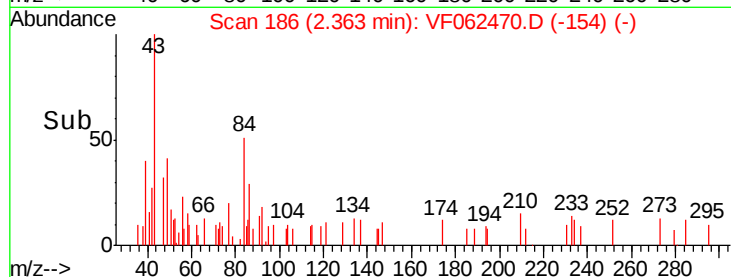
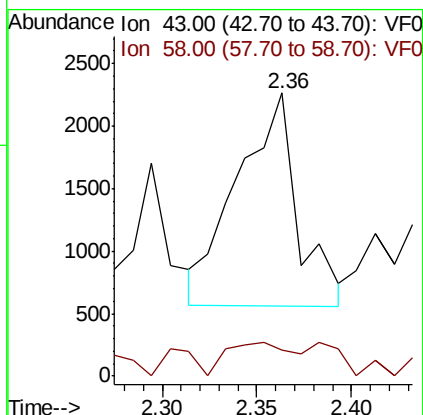
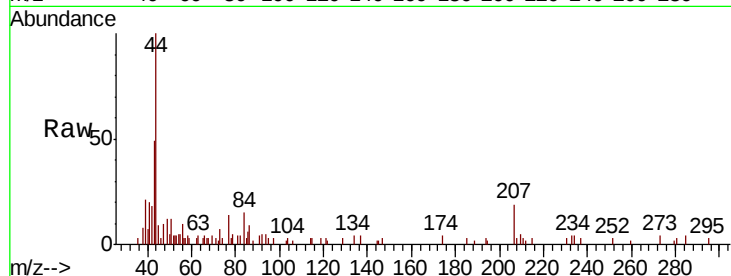
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 3775

Ion Ratio Lower Upper

43 100

58 0.9 13.1 19.7#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.48 min Scan# 198

Delta R.T. 0.01 min

Lab File: VF062470.D

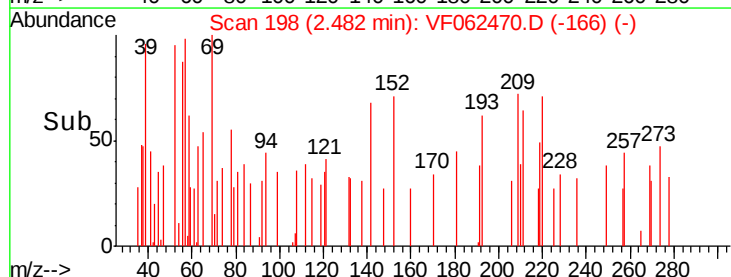
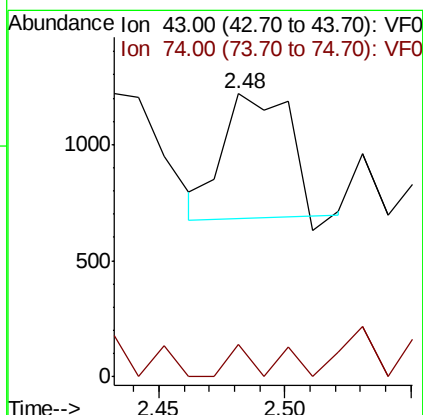
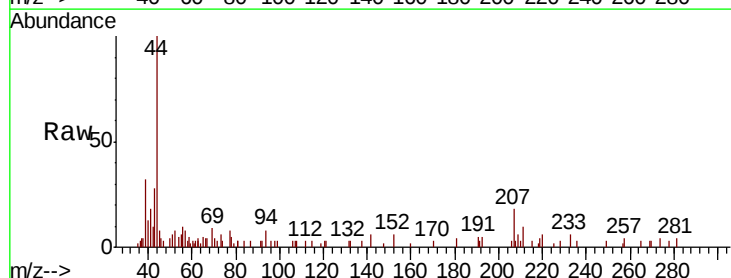
Acq: 11 May 2019 19:55

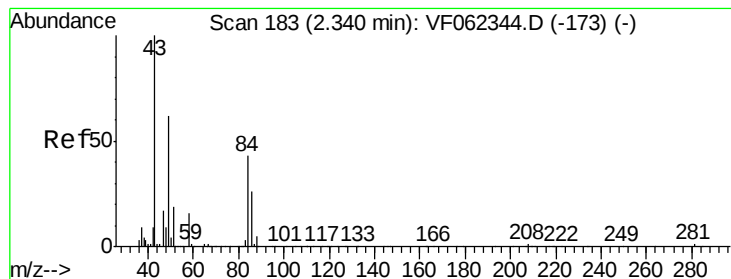
Tgt Ion: 43 Resp: 972

Ion Ratio Lower Upper

43 100

74 8.5 15.0 22.4#





#20

Methylene Chloride

Concen: 5.050 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.02 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

Instrument :

MSVOA_F

ClientSampled :

Tot Ion: 84 Resp: 4849

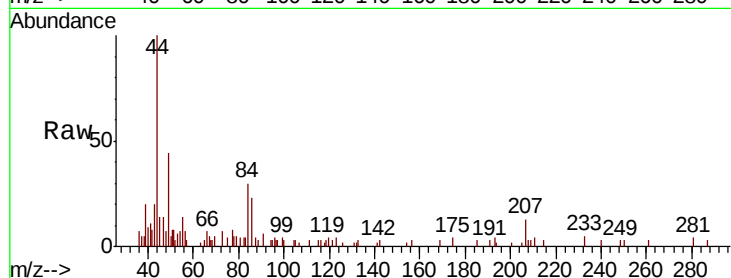
Ion Ratio Lower Upper

84 100

49 144.5 117.5 176.3

51 36.7 37.0 55.4#

86 75.3 49.3 73.9#

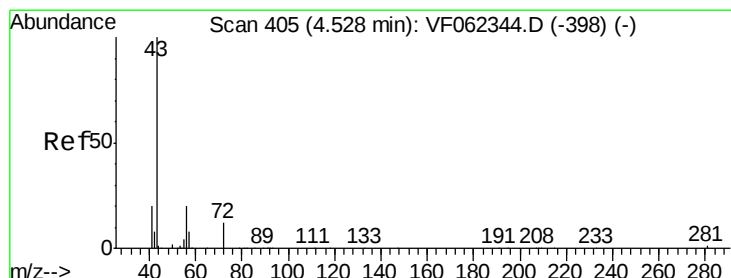
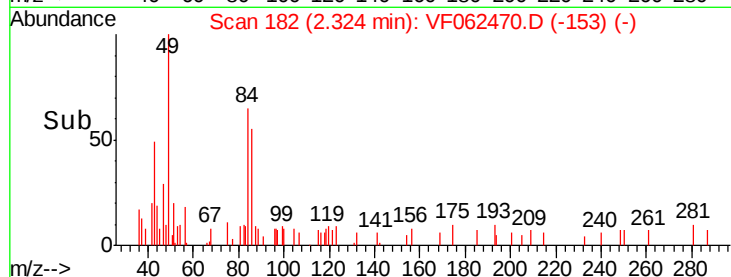
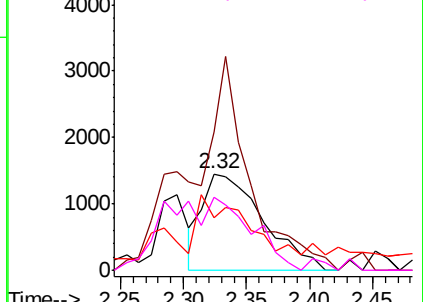


Abundance Ion 83.90 (83.60 to 84.60): VF0

Ion 48.90 (48.60 to 49.60): VF0

Ion 50.90 (50.60 to 51.60): VF0

Ion 85.90 (85.60 to 86.60): VF0



#25

2-Butanone

Concen: 4.499 ug/l

RT: 4.57 min Scan# 410

Delta R.T. 0.04 min

Lab File: VF062470.D

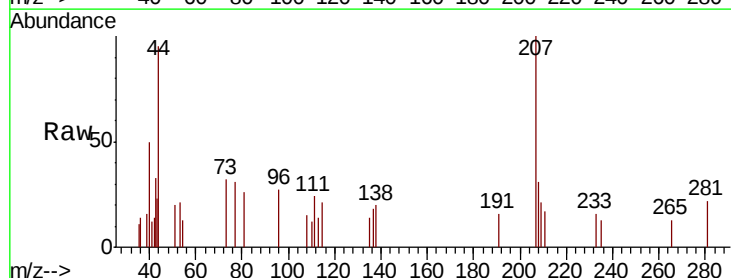
Acq: 11 May 2019 19:55

Tgt Ion: 43 Resp: 1500

Ion Ratio Lower Upper

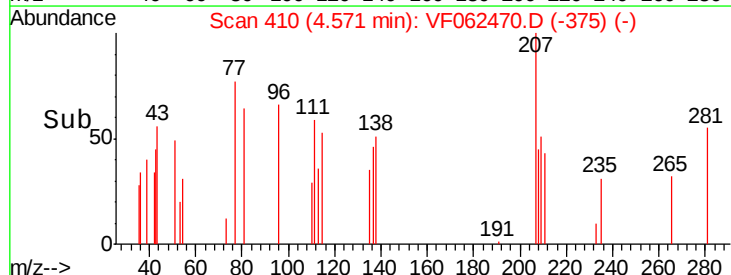
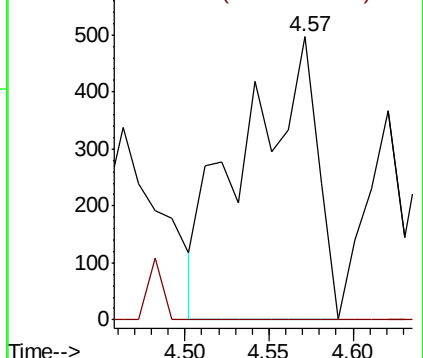
43 100

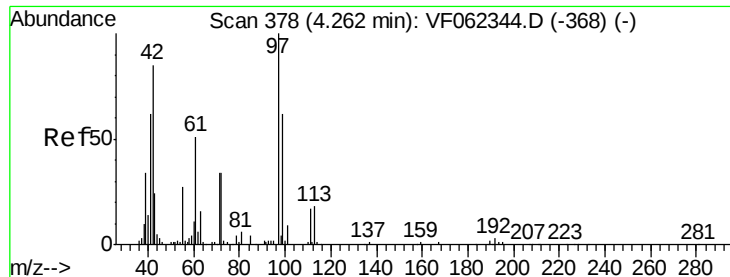
72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.193 ug/l

RT: 4.23 min Scan# 375

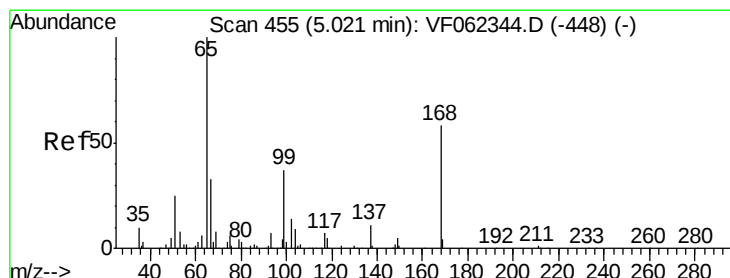
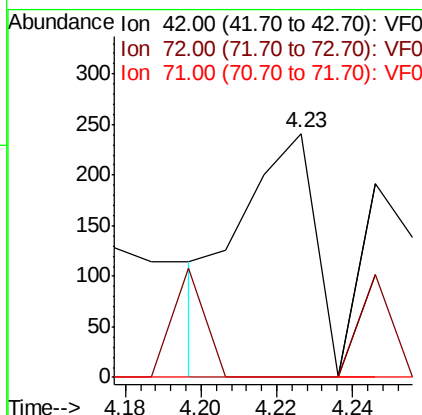
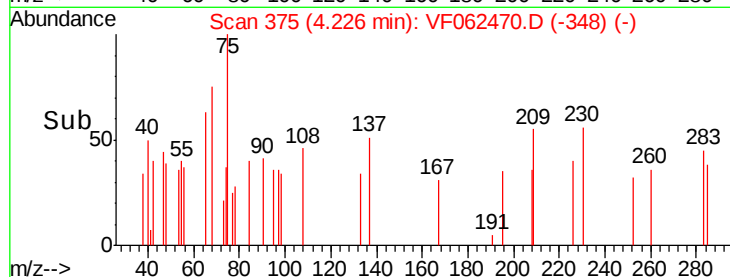
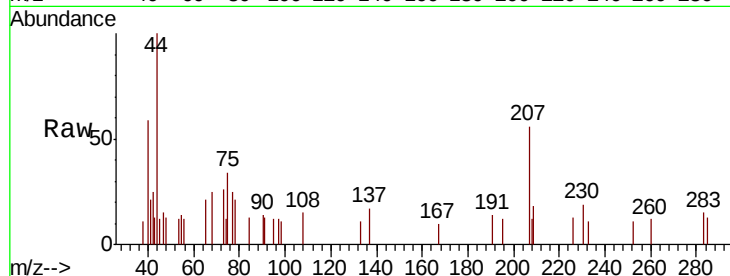
Delta R.T. -0.04 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	42.00	Resp:	336
Ion	Ratio	Lower	Upper
42	100		
72	17.9	31.4	47.0#
71	0.0	31.7	47.5#



#33

1,2-Dichloroethane-d4

Concen: 105.731 ug/l

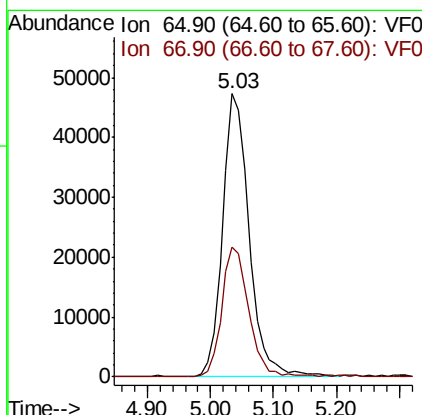
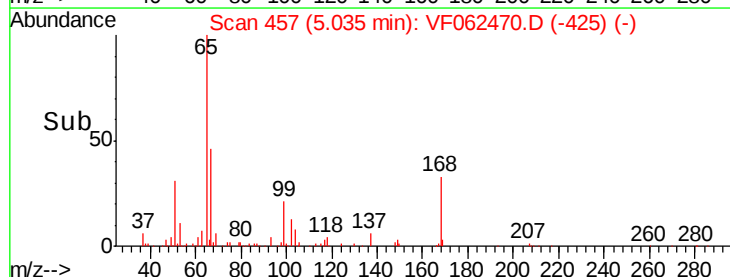
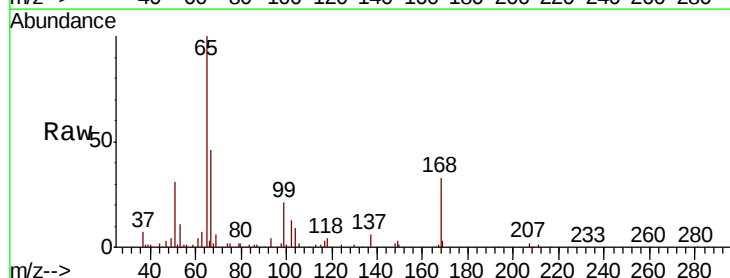
RT: 5.03 min Scan# 457

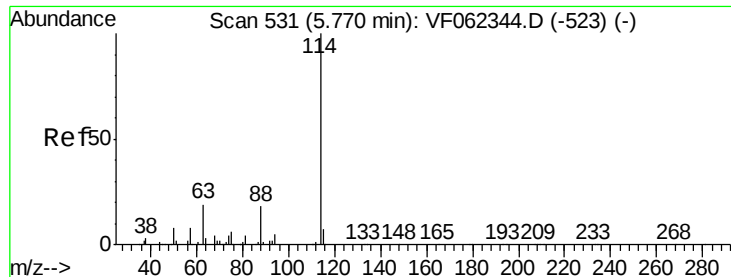
Delta R.T. 0.01 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

Tgt Ion:	65	Resp:	138722
Ion	Ratio	Lower	Upper
65	100		
67	46.5	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: VF062470.D

Acq: 11 May 2019 19:55

Instrument :

MSVOA_F

ClientSampleId :

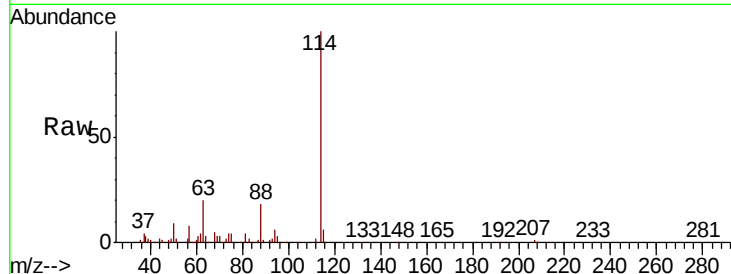
Tot Ion:114 Resp: 216435

Ion Ratio Lower Upper

114 100

63 20.3 0.0 37.4

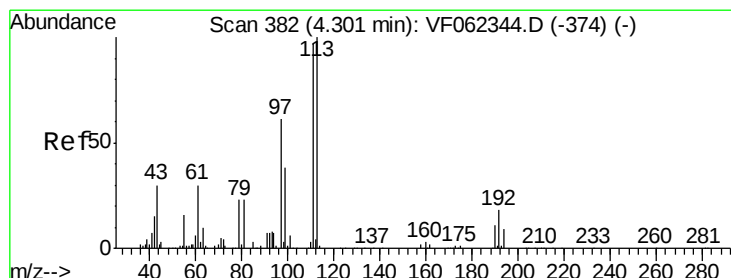
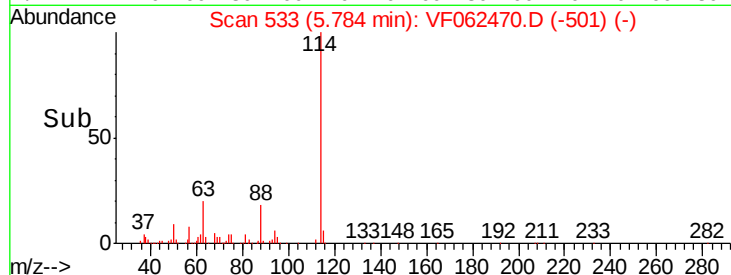
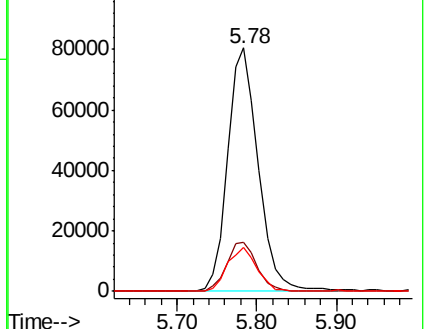
88 18.0 0.0 36.4



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: 92.452 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

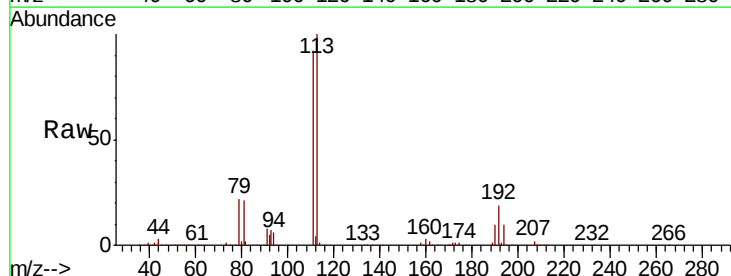
Tgt Ion:113 Resp: 159415

Ion Ratio Lower Upper

113 100

111 102.2 79.4 119.0

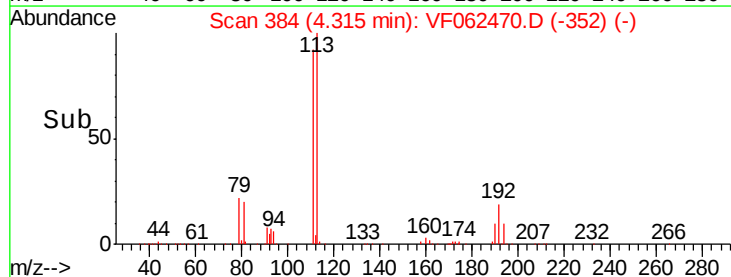
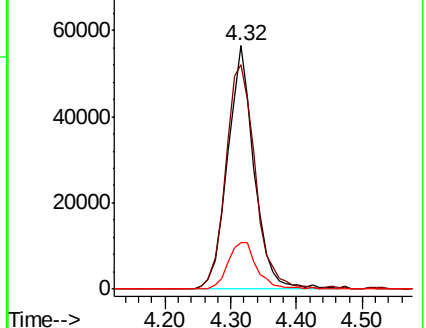
192 21.3 16.0 24.0

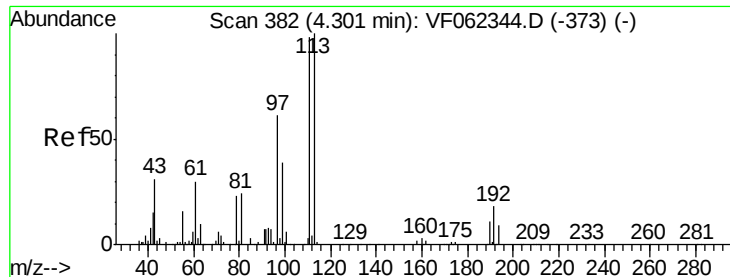


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

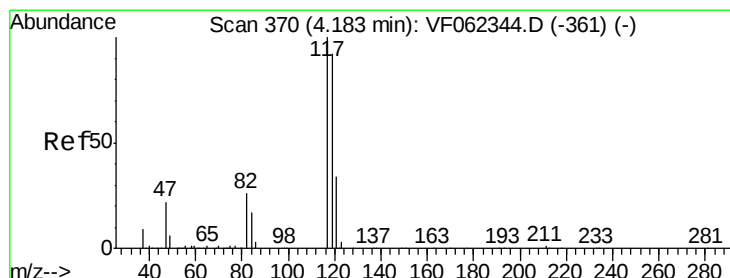
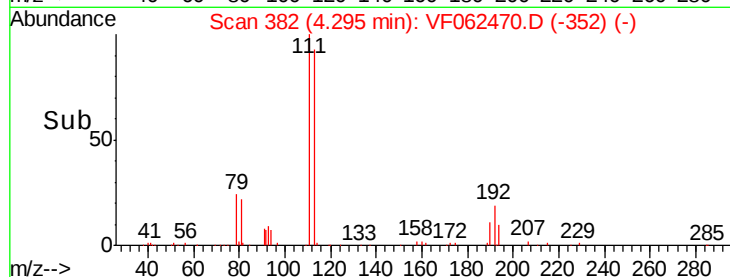
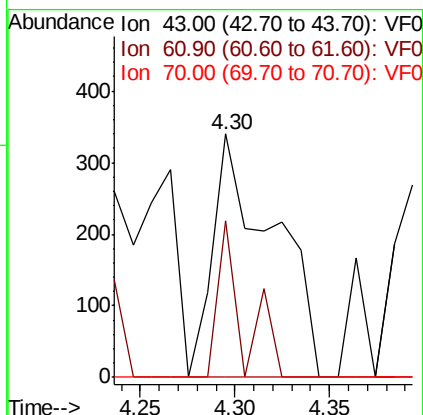
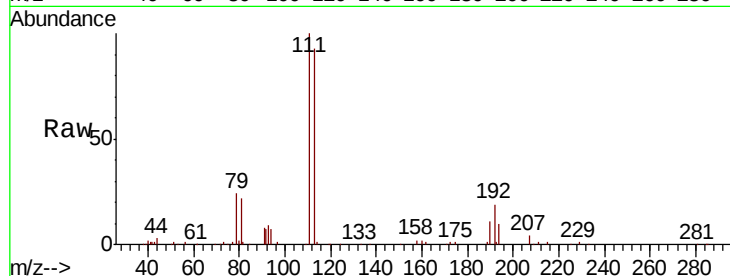




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.30 min Scan# 382
Delta R.T. -0.01 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

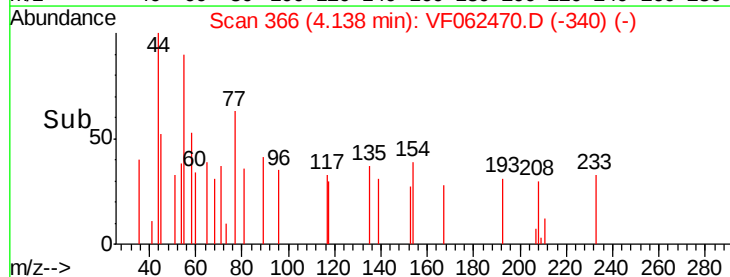
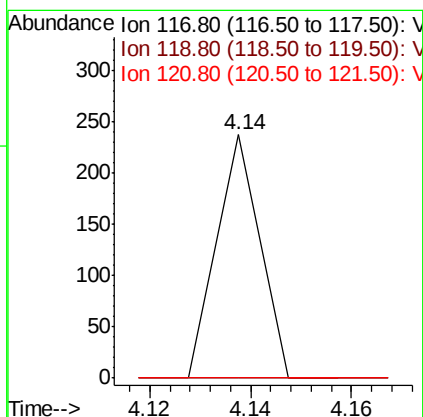
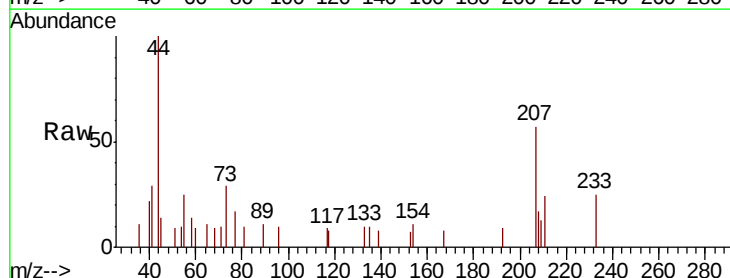
Instrument :
MSVOA_F
ClientSampled :

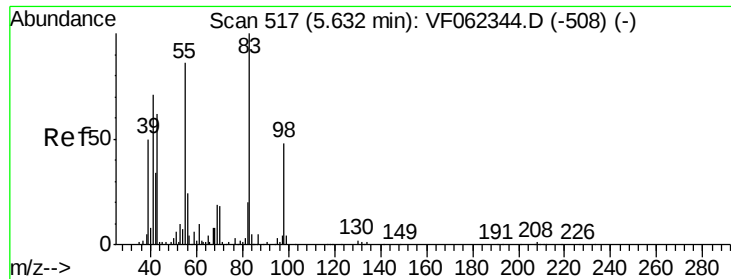
Tot Ion: 43 Resp: 747
Ion Ratio Lower Upper
43 100
61 27.0 0.0 0.0#
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.14 min Scan# 366
Delta R.T. -0.05 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

Tgt Ion: 117 Resp: 140
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

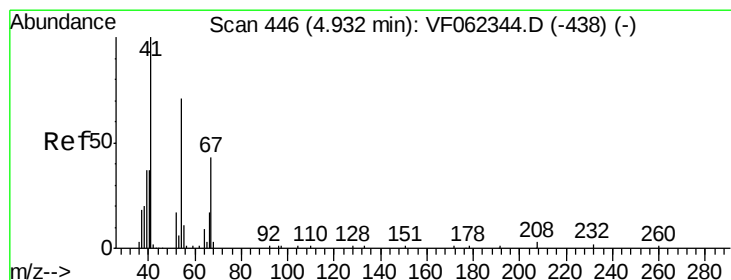
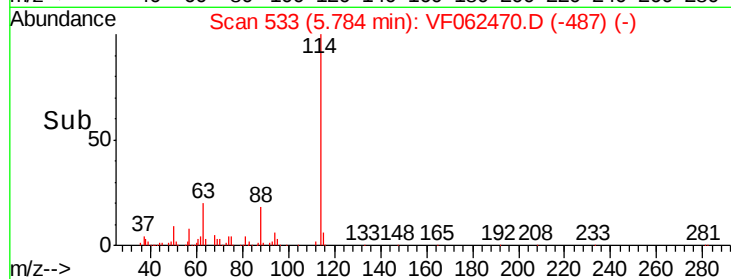
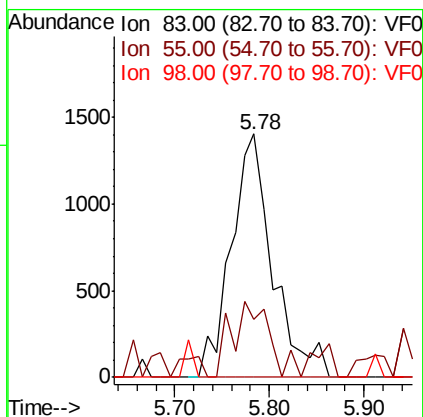
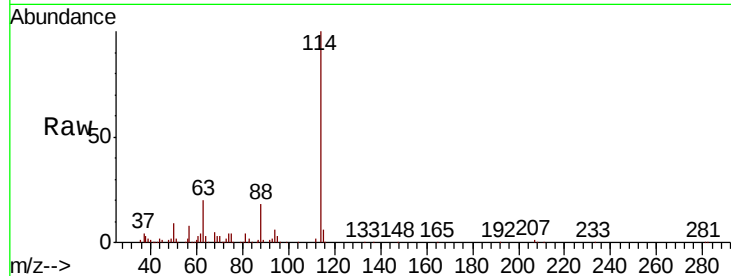




#39
Methylcyclohexane
Concen: 2.287 ug/l
RT: 5.78 min Scan# 533
Delta R.T. 0.15 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

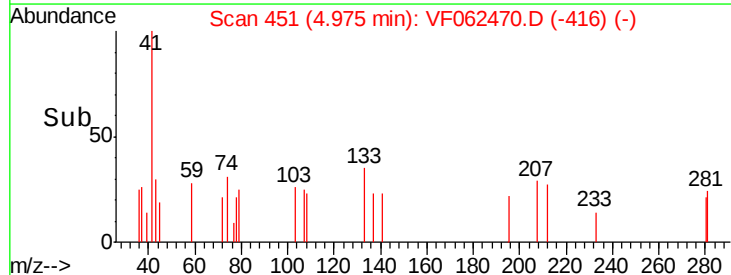
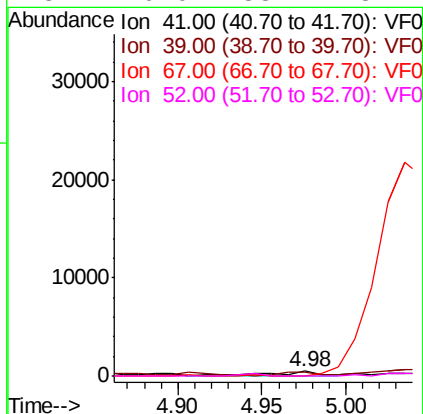
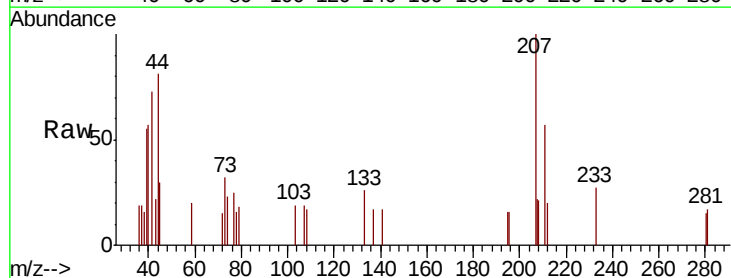
Instrument :
MSVOA_F
ClientSampleId :

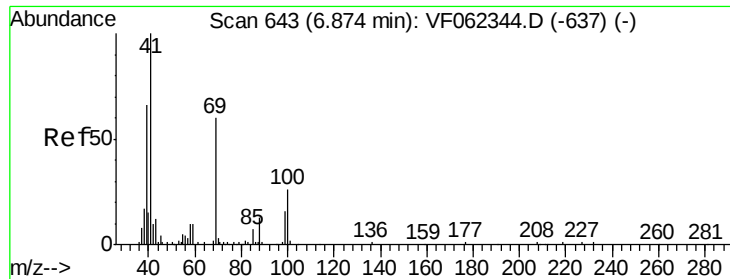
Tot Ion	Ratio	Lower	Upper
83	100		
55	23.6	69.0	103.6#
98	0.0	38.6	58.0#



#41
Methacrylonitrile
Concen: 2.470 ug/l
RT: 4.98 min Scan# 451
Delta R.T. 0.04 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

Tgt Ion	Ratio	Lower	Upper
41	100		
39	63.9	54.3	81.5
67	0.0	37.8	56.8#
52	0.0	58.2	87.4#

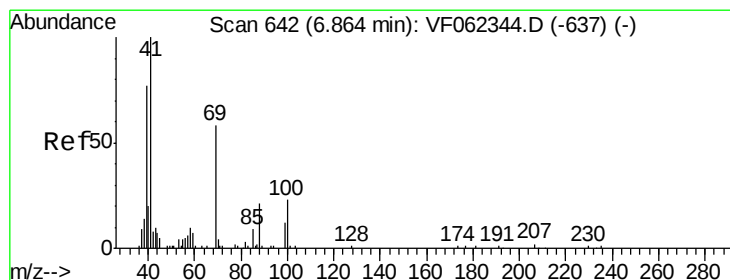
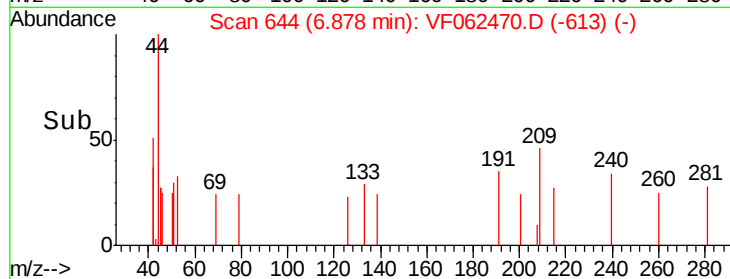
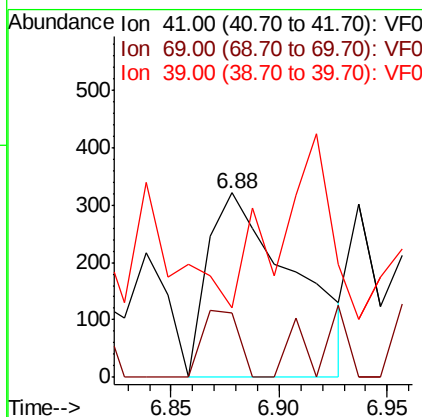
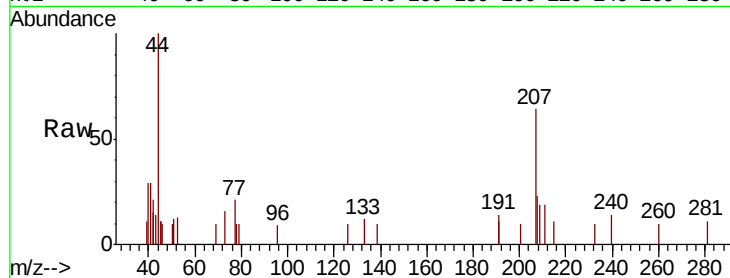




#48
Methyl methacrylate
Concen: 1.484 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.00 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

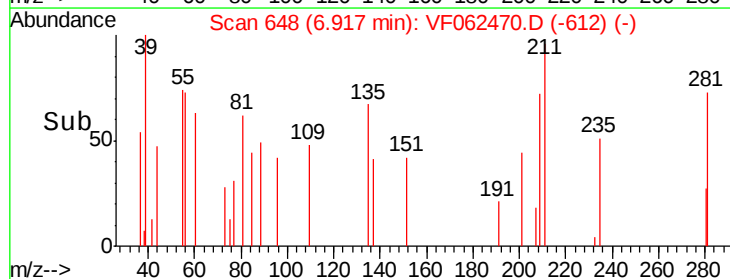
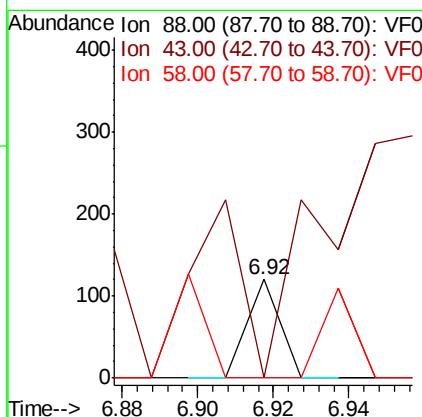
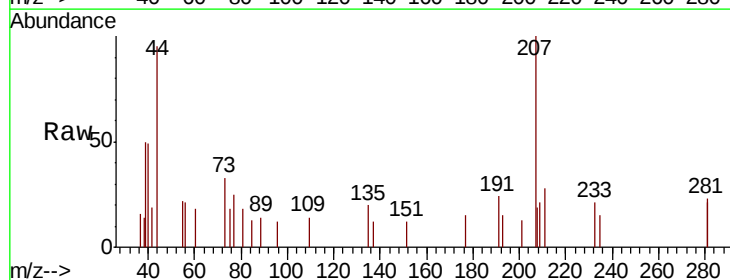
Instrument :
MSVOA_F
ClientSampled :

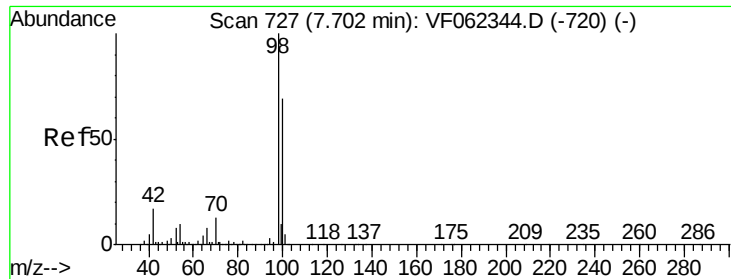
Tot Ion: 41 Resp: 887
Ion Ratio Lower Upper
41 100
69 15.1 48.6 72.8#
39 0.0 56.1 84.1#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.92 min Scan# 648
Delta R.T. 0.05 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

Tgt Ion: 88 Resp: 71
Ion Ratio Lower Upper
88 100
43 285.9 55.6 83.4#
58 105.6 52.8 79.2#





#50

Toluene-d8

Concen: 40.259 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.01 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

Instrument :

MSVOA_F

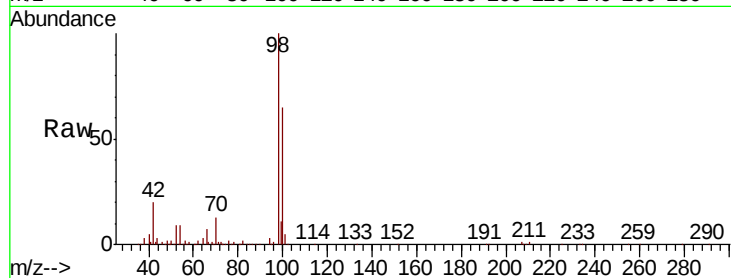
ClientSampleId :

Tot Ion: 98 Resp: 168039

Ion Ratio Lower Upper

98 100

100 67.8 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.72

80000

60000

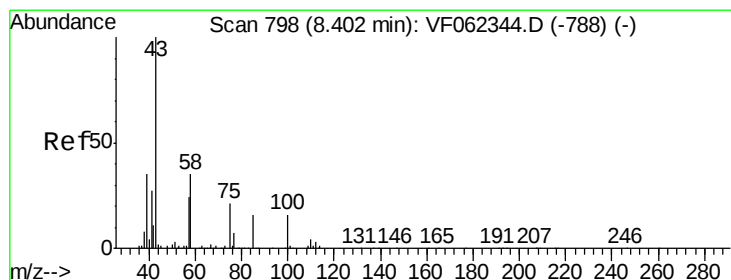
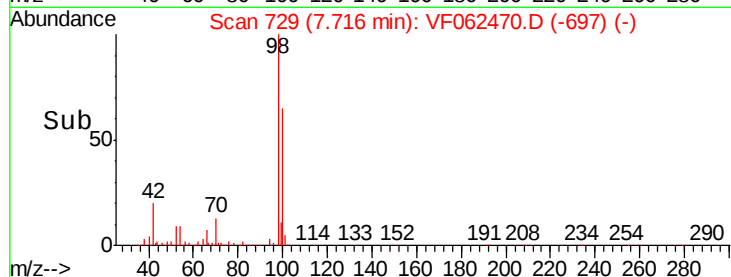
40000

20000

0

Time-->

7.60 7.70 7.80 7.90



#51

4-Methyl-2-Pentanone

Concen: 1.406 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062470.D

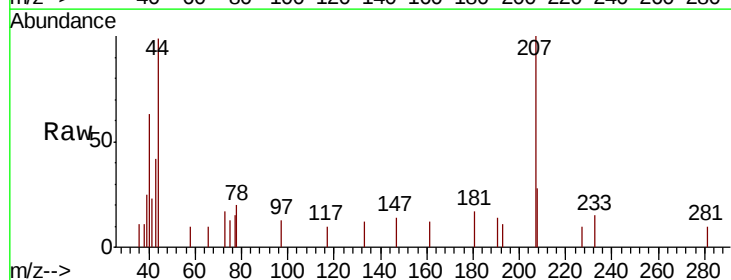
Acq: 11 May 2019 19:55

Tgt Ion: 43 Resp: 901

Ion Ratio Lower Upper

43 100

58 13.8 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

500

400

300

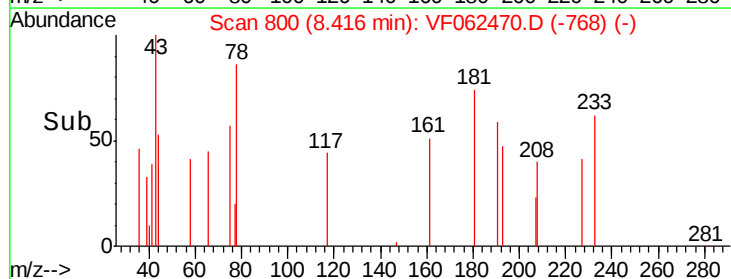
200

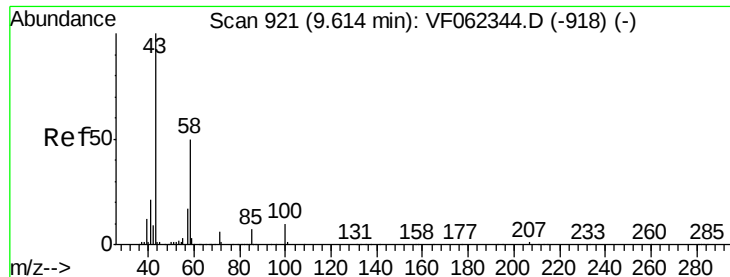
100

0

Time-->

8.35 8.40 8.45

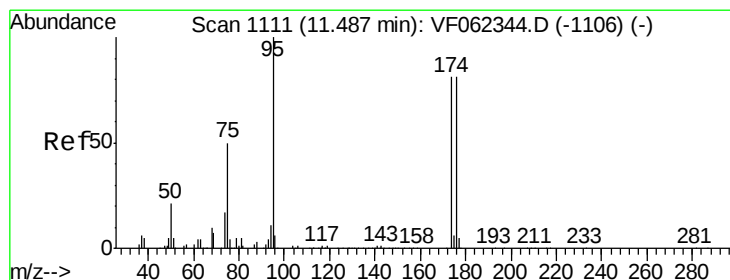
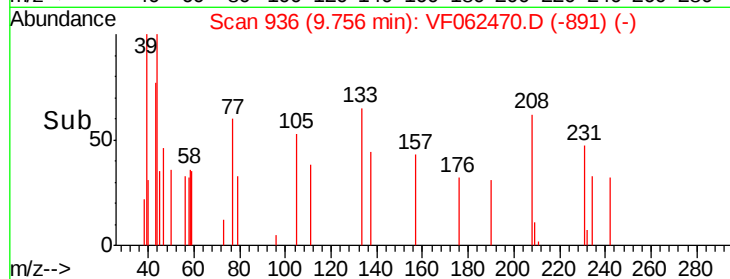
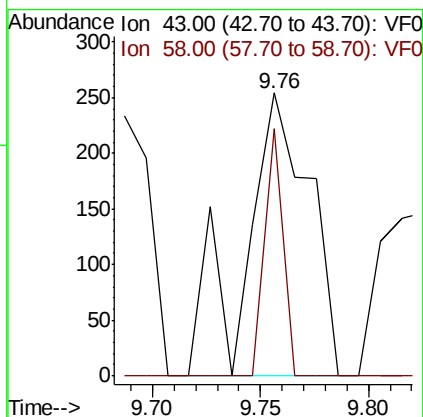
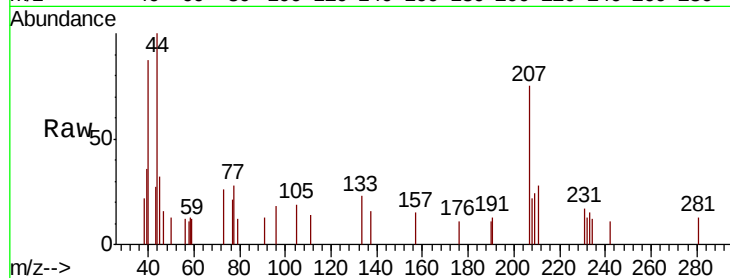




#59
2-Hexanone
Concen: 1.198 ug/l
RT: 9.76 min Scan# 936
Delta R.T. 0.14 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

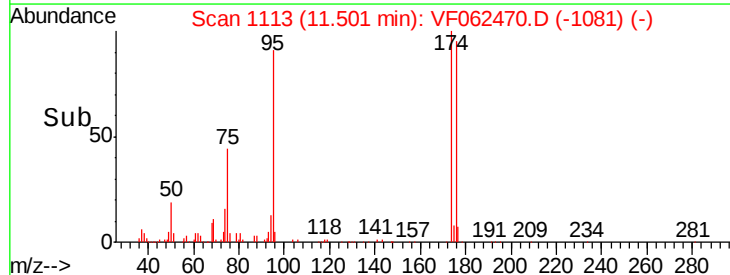
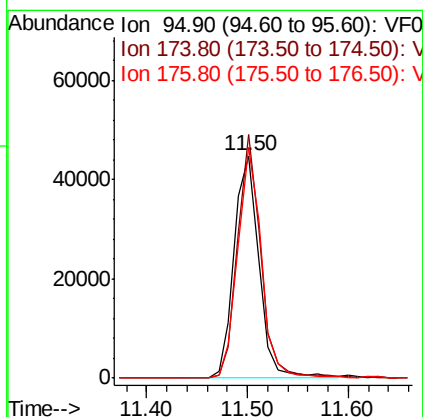
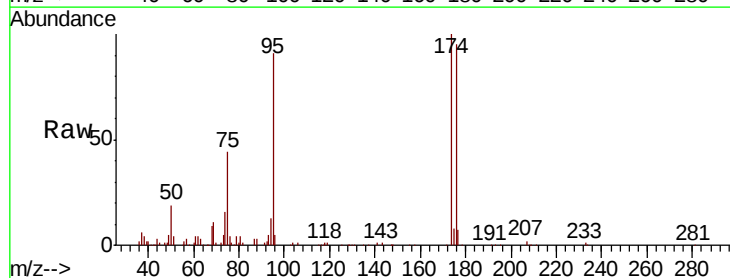
Instrument :
MSVOA_F
ClientSampled :

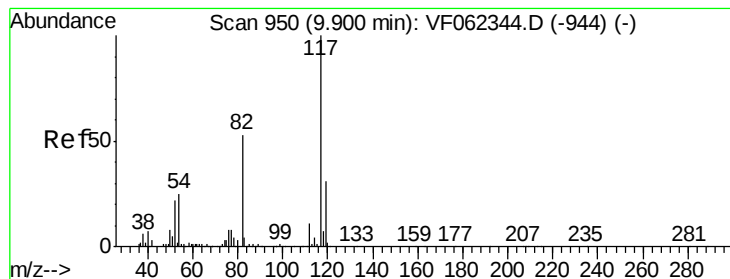
Tot Ion: 43 Resp: 531
Ion Ratio Lower Upper
43 100
58 24.7 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 40.850 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VF062470.D
Acq: 11 May 2019 19:55

Tgt Ion: 95 Resp: 76926
Ion Ratio Lower Upper
95 100
174 102.2 0.0 191.8
176 99.0 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: VF062470.D

Acq: 11 May 2019 19:55

Instrument :

MSVOA_F

ClientSampleId :

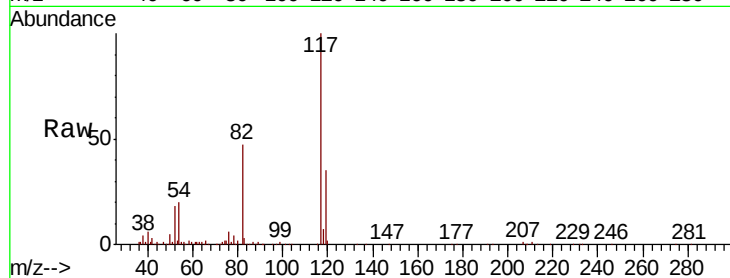
Tot Ion:117 Resp: 174875

Ion Ratio Lower Upper

117 100

82 46.7 42.2 63.2

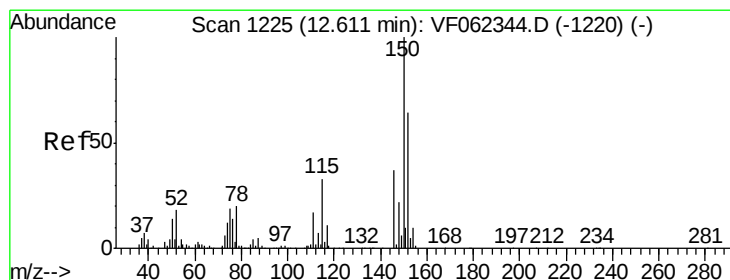
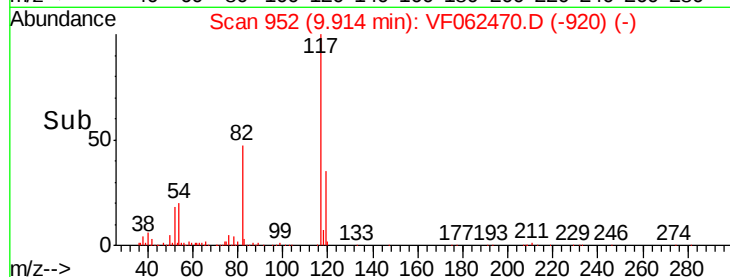
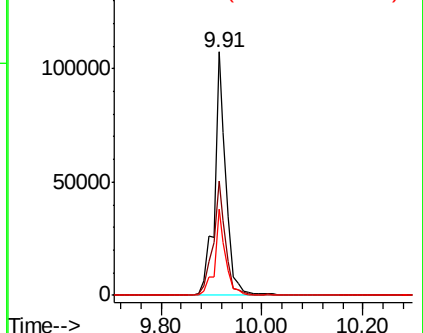
119 35.2 25.0 37.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

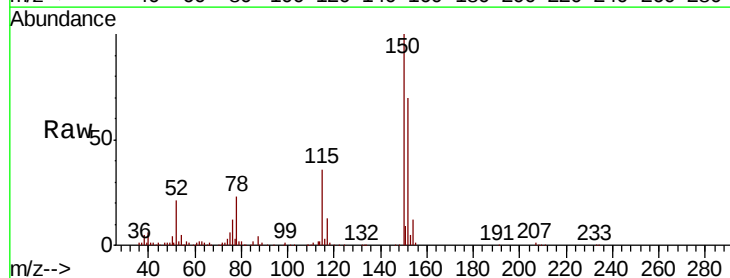
Tgt Ion:152 Resp: 97034

Ion Ratio Lower Upper

152 100

115 53.1 26.4 79.2

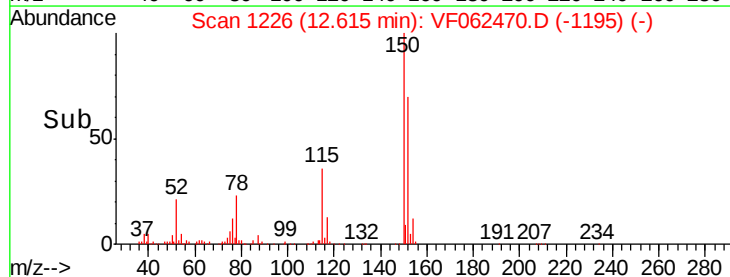
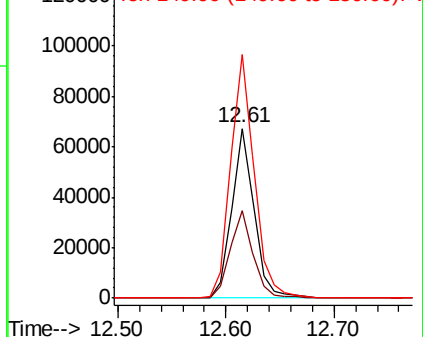
150 151.7 0.0 335.0

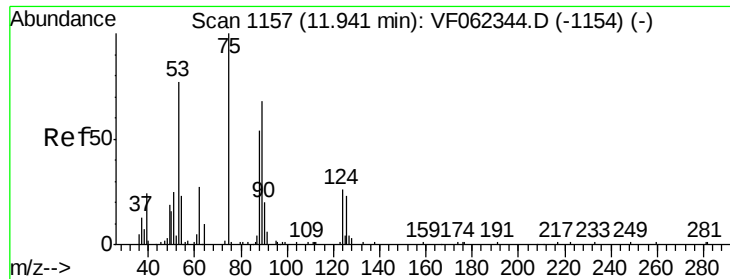


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.494 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. 0.02 min

Lab File: VF062470.D

Acq: 11 May 2019 19:55

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 75 Resp: 386

Ion Ratio Lower Upper

75 100

53 19.2 71.9 107.9#

89 0.0 0.0 0.0

