

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052119\
 Data File : VF062684.D
 Acq On : 21 May 2019 15:47
 Operator : FY/SY
 Sample : K2962-07RE
 Misc : 4.18g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 DB-3-4FTRE

Quant Time: May 22 03:56:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	47318	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.78	114	58838	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	31648	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	5882	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	4580	13.70	ug/l	0.00
Spiked Amount			Recovery	=	27.40%	
35) Dibromofluoromethane	4.31	113	11182	24.84	ug/l	0.00
Spiked Amount			Recovery	=	49.68%	
50) Toluene-d8	7.72	98	33632	31.29	ug/l	0.00
Spiked Amount			Recovery	=	62.58%	
62) 4-Bromofluorobenzene	11.49	95	6187	15.18	ug/l	-0.01
Spiked Amount			Recovery	=	30.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.15	50	736	1.241	ug/l #	67
5) Bromomethane	1.37	94	1091	3.654	ug/l	89
6) Chloroethane	1.54	64	1185	5.912	ug/l	99
8) Diethyl Ether	1.75	74	455	3.134	ug/l	92
11) Tert butyl alcohol	2.71	59	384	17.395	ug/l #	26
12) 1,1-Dichloroethene	1.88	96	1124	2.644	ug/l #	1
13) Acrolein	2.17	56	351	15.232	ug/l	96
14) Allyl chloride	2.22	41	868	2.256	ug/l #	63
15) Acrylonitrile	3.11	53	375	6.022	ug/l #	1
16) Acetone	2.34	43	1688	19.459	ug/l	97
18) Methyl Acetate	2.50	43	3072	22.536	ug/l	99
19) Methyl tert-butyl Ether	2.54	73	1371	1.804	ug/l	92
20) Methylene Chloride	2.30	84	3252	7.479	ug/l #	69
21) trans-1,2-Dichloroethene	2.45	96	1326	3.192	ug/l #	1
22) Diisopropyl ether	2.93	45	1561	1.645	ug/l #	71
23) Vinyl Acetate	3.34	43	1588	2.481	ug/l #	73
25) 2-Butanone	4.55	43	1148	6.194	ug/l	94
26) 2,2-Dichloropropane	3.83	77	611	1.534	ug/l	99
27) cis-1,2-Dichloroethene	3.65	96	805	1.178	ug/l	12
29) Tetrahydrofuran	4.28	42	427	5.693	ug/l #	15
36) 1,1-Dichloropropene	4.50	75	804	1.334	ug/l #	48
37) Ethyl Acetate	4.29	43	879	3.571	ug/l #	37
41) Methacrylonitrile	4.98	41	1583	12.266	ug/l #	62
43) Isopropyl Acetate	7.08	43	511	1.602	ug/l #	43
46) Dibromomethane	6.28	93	324	1.352	ug/l #	31
48) Methyl methacrylate	6.91	41	1011	6.065	ug/l #	24
49) 1,4-Dioxane	6.88	88	133	62.295	ug/l #	1
51) 4-Methyl-2-Pentanone	8.55	43	274	1.257	ug/l	92
52) Toluene	7.78	92	2648	3.074	ug/l	95
54) cis-1,3-Dichloropropene	7.46	75	641	1.125	ug/l #	89
55) 1,1,2-Trichloroethane	8.63	97	419	1.643	ug/l #	54
56) Ethyl methacrylate	8.78	69	540	1.777	ug/l #	34
58) 2-Chloroethyl Vinyl ether	7.43	63	184	1.860	ug/l #	51
59) 2-Hexanone	9.71	43	1129	Below Cal		64

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

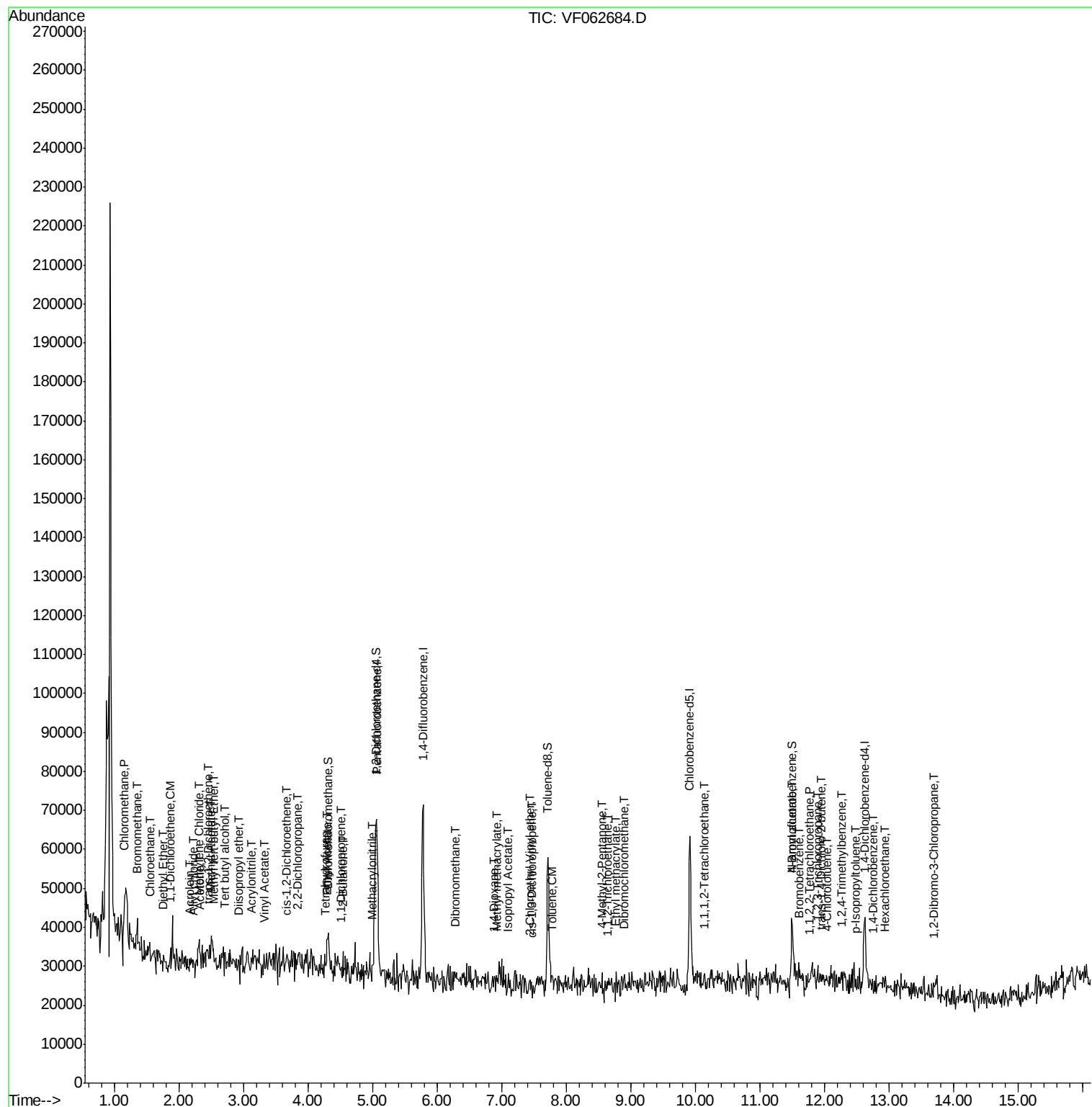
60) Dibromochloromethane	8.89	129	552	1.661	ug/l #	49
66) 1,1,1,2-Tetrachloroethane	10.13	131	255	1.022	ug/l #	38
74) N-amyl acetate	11.48	43	788	2.186	ug/l #	37
75) 1,1,2,2-Tetrachloroethane	11.76	83	386	4.480	ug/l #	23
76) 1,2,3-Trichloropropane	11.89	75	412	7.278	ug/l	91
77) Bromobenzene	11.60	156	320	3.054	ug/l #	8
81) trans-1,4-Dichloro-2-buten	11.94	75	522	20.745	ug/l #	58
82) 4-Chlorotoluene	12.03	91	877	3.163	ug/l #	37
84) 1,2,4-Trimethylbenzene	12.26	105	697	2.130	ug/l #	25
86) p-Isopropyltoluene	12.49	119	418	1.078	ug/l #	49
88) 1,4-Dichlorobenzene	12.74	146	276	1.551	ug/l #	24
90) Hexachloroethane	12.95	117	184	1.977	ug/l #	20
92) 1,2-Dibromo-3-Chloropropan	13.68	75	104	10.119	ug/l #	9

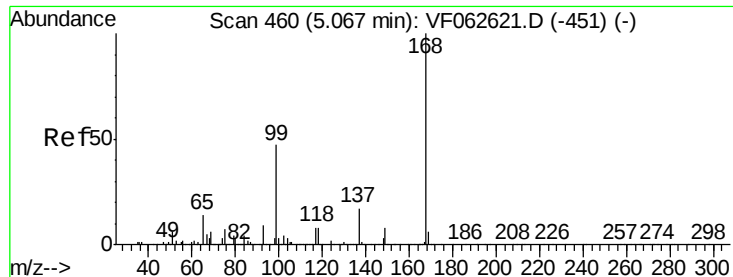
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

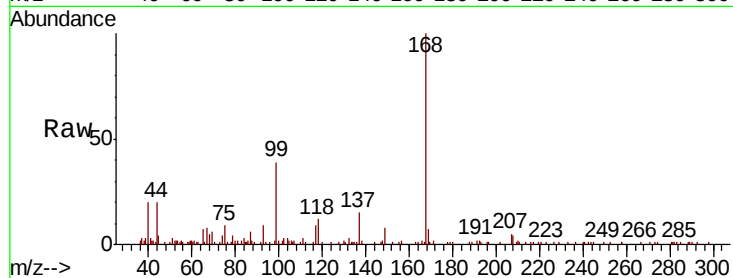
DB-3-4FTRE

Tot Ion:168 Resp: 47318

Ion Ratio Lower Upper

168 100

99 39.5 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

15000

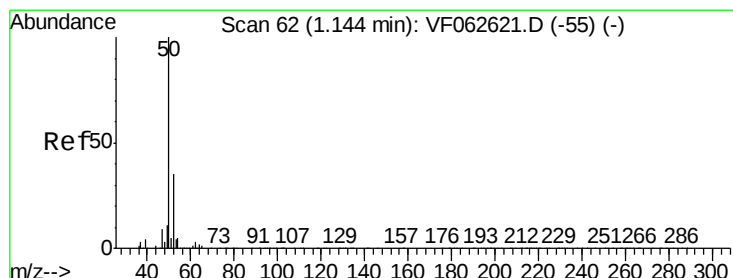
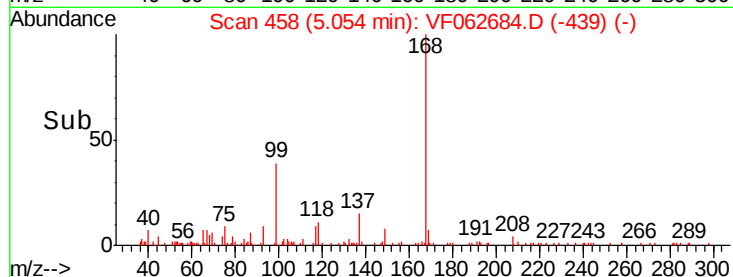
10000

5000

0

4.90 5.00 5.10 5.20

Time-->



#3

Chloromethane

Concen: 1.241 ug/l

RT: 1.15 min Scan# 62

Delta R.T. 0.01 min

Lab File: VF062684.D

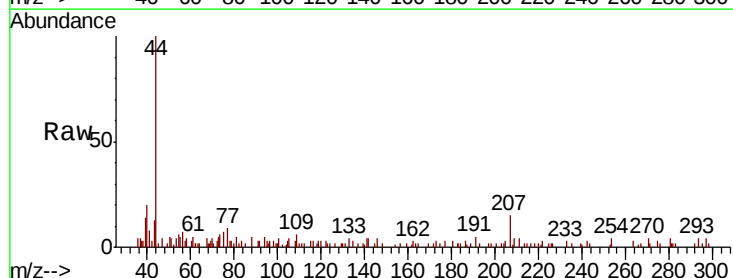
Acq: 21 May 2019 15:47

Tgt Ion: 50 Resp: 736

Ion Ratio Lower Upper

50 100

52 15.5 27.5 41.3#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.15

600

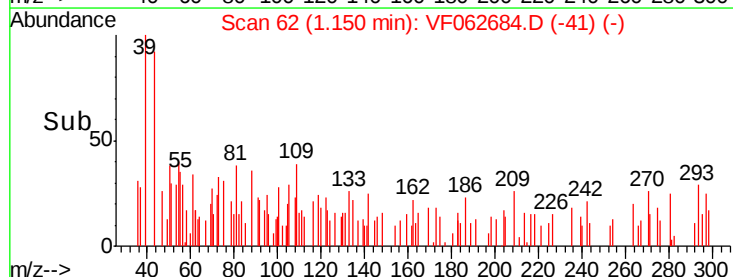
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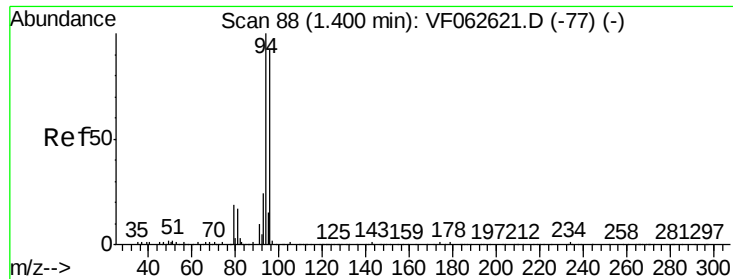
200

0

1.10 1.15 1.20 1.25

Time-->





#5

Bromomethane

Concen: 3.654 ug/l

RT: 1.37 min Scan# 84

Delta R.T. -0.03 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

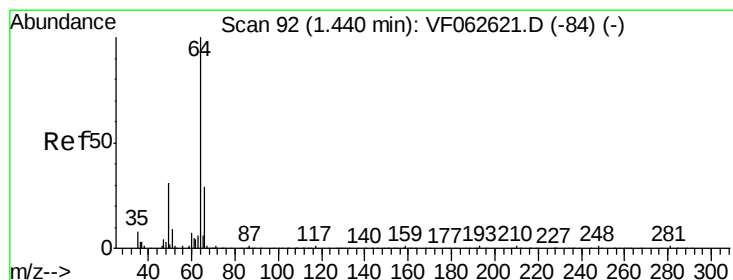
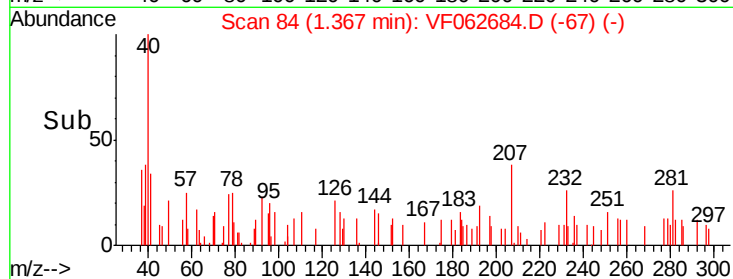
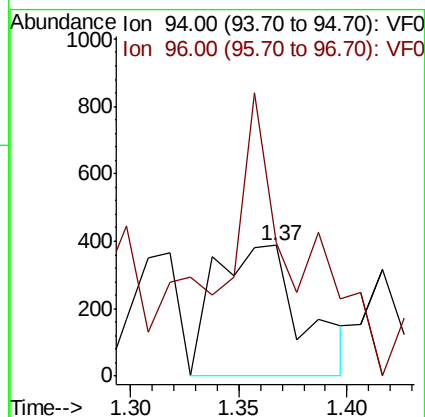
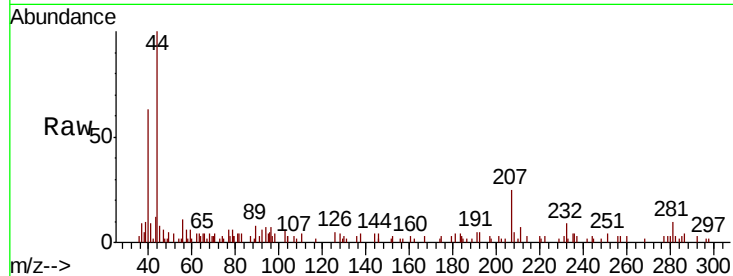
DB-3-4FTRE

Tot Ion: 94 Resp: 1091

Ion Ratio Lower Upper

94 100

96 102.3 73.2 109.8



#6

Chloroethane

Concen: 5.912 ug/l

RT: 1.54 min Scan# 102

Delta R.T. 0.10 min

Lab File: VF062684.D

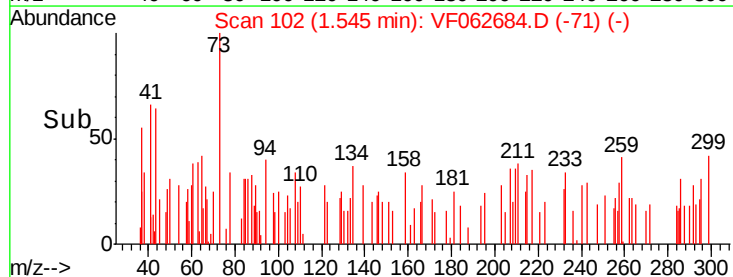
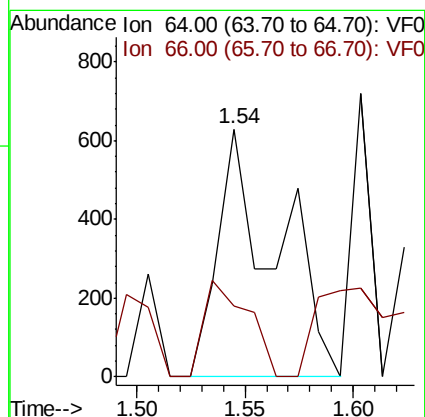
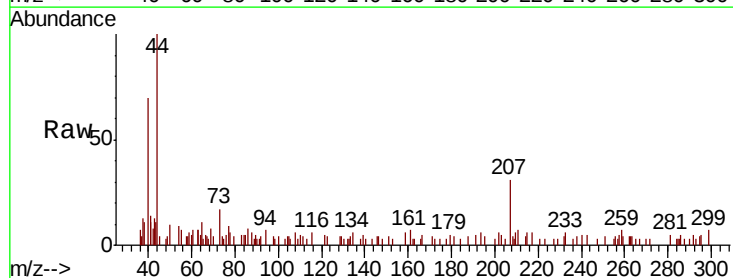
Acq: 21 May 2019 15:47

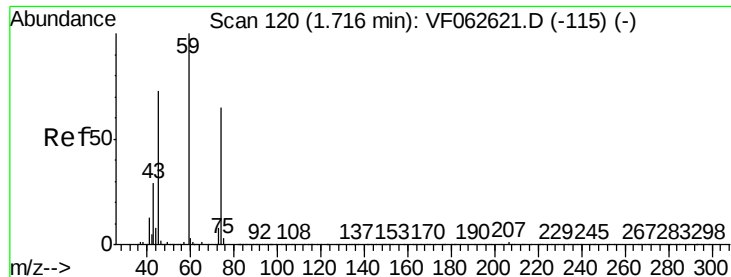
Tgt Ion: 64 Resp: 1185

Ion Ratio Lower Upper

64 100

66 28.8 23.4 35.2

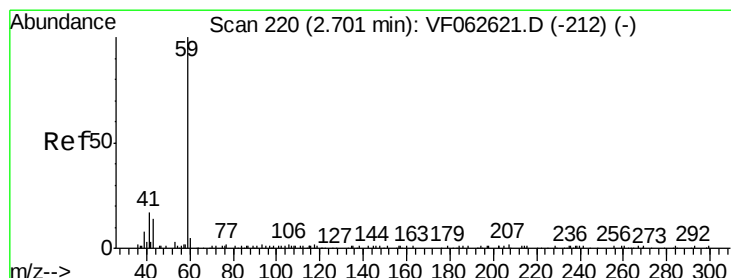
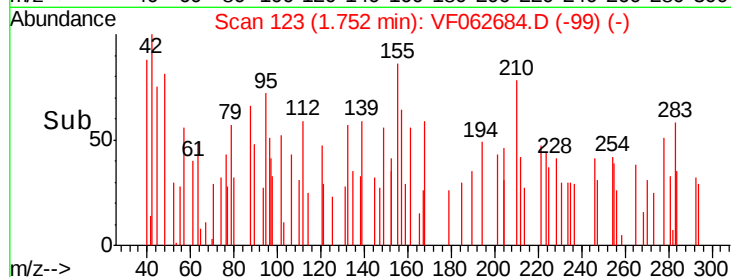
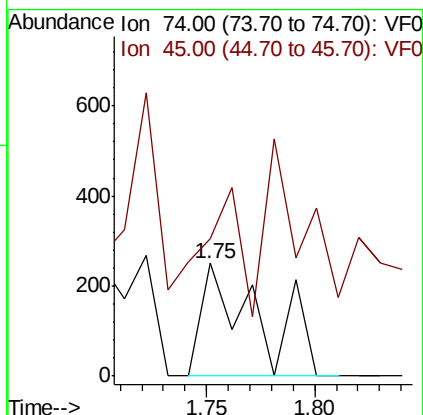
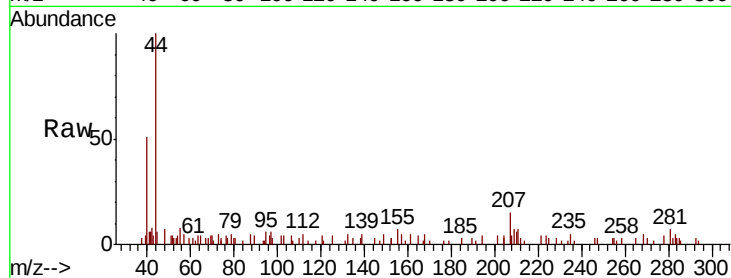




#8
Diethyl Ether
Concen: 3.134 ug/l
RT: 1.75 min Scan# 123
Delta R.T. 0.04 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

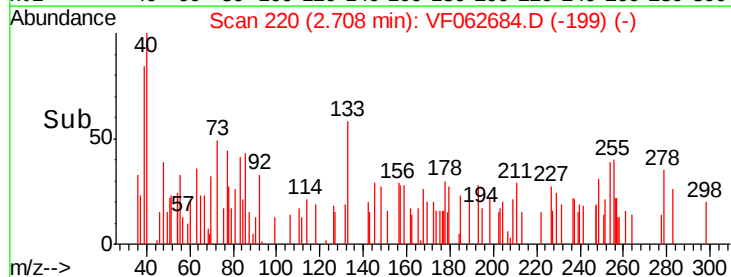
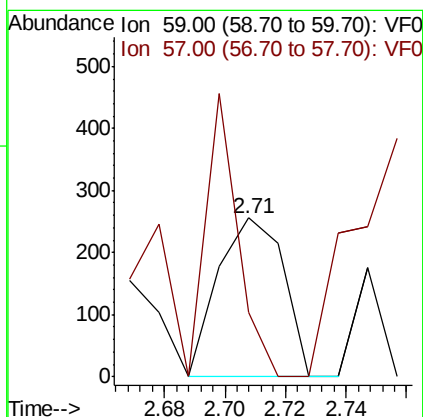
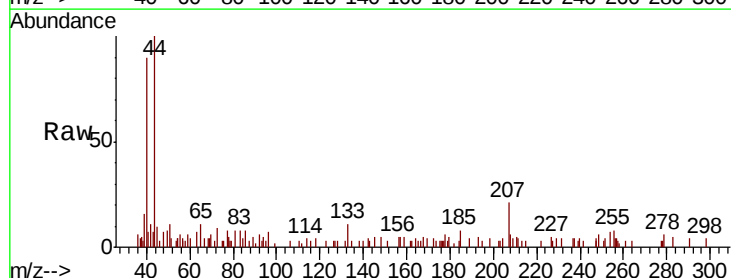
Instrument :
MSVOA_F
ClientSampleId :
DB-3-4FTRE

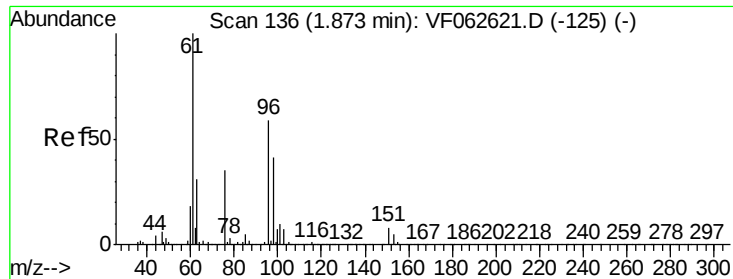
Tot Ion: 74 Resp: 455
Ion Ratio Lower Upper
74 100
45 122.0 57.0 170.8



#11
Tert butyl alcohol
Concen: 17.395 ug/l
RT: 2.71 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

Tgt Ion: 59 Resp: 384
Ion Ratio Lower Upper
59 100
57 40.2 9.3 13.9#





#12

1,1-Dichloroethene

Concen: 2.644 ug/l

RT: 1.88 min Scan# 136

Delta R.T. 0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :
MSVOA_F
ClientSampled :
DB-3-4FTRE

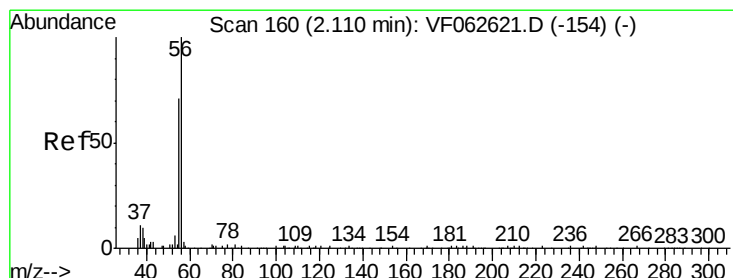
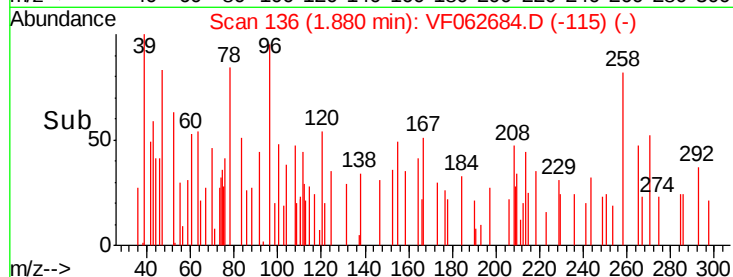
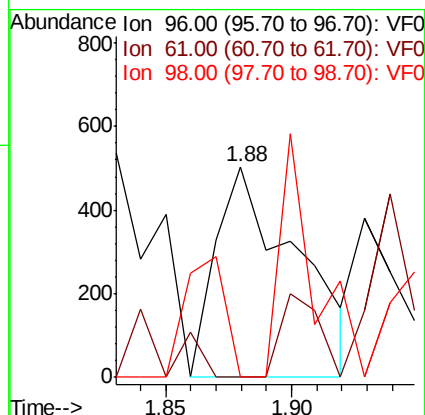
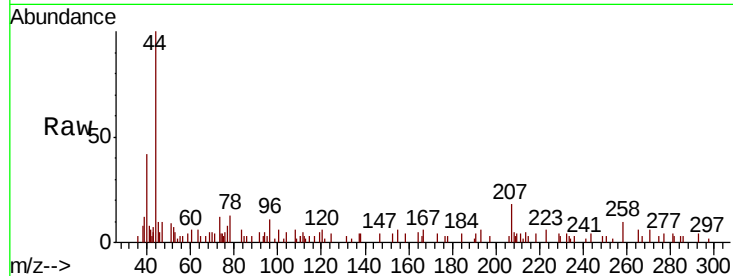
Tot Ion: 96 Resp: 1124

Ion Ratio Lower Upper

96 100

61 0.0 134.3 201.5#

98 0.0 55.0 82.6#



#13

Acrolein

Concen: 15.232 ug/l

RT: 2.17 min Scan# 165

Delta R.T. 0.06 min

Lab File: VF062684.D

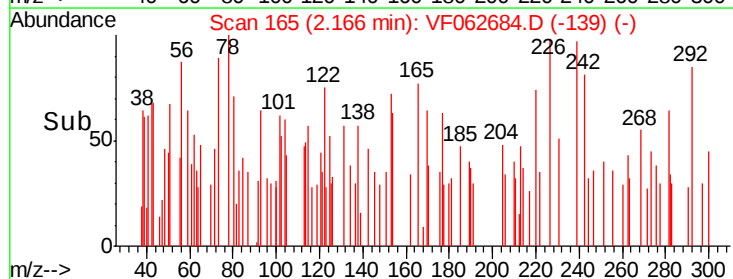
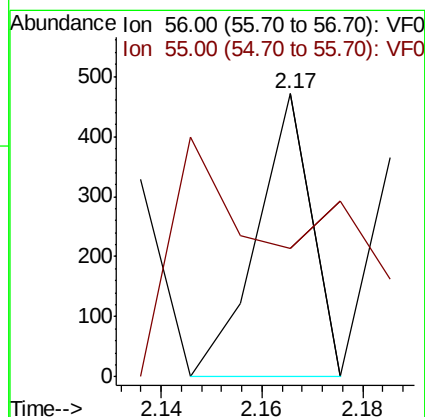
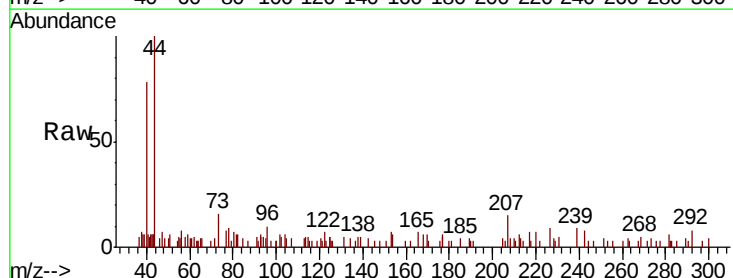
Acq: 21 May 2019 15:47

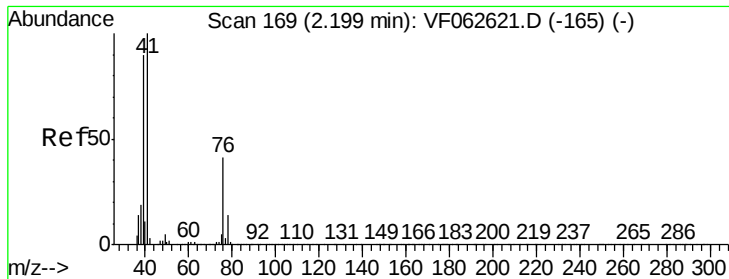
Tgt Ion: 56 Resp: 351

Ion Ratio Lower Upper

56 100

55 77.9 59.4 89.0





#14

Allvl chloride

Concen: 2.256 ug/l

RT: 2.22 min Scan# 171

Delta R.T. 0.03 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

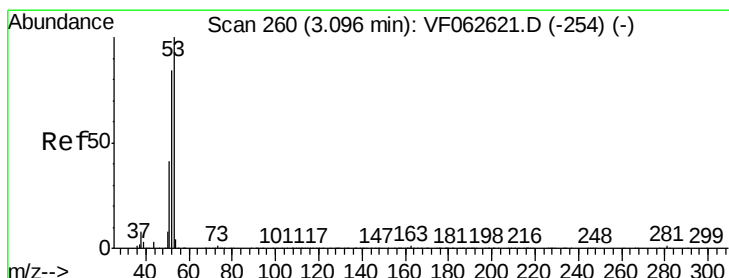
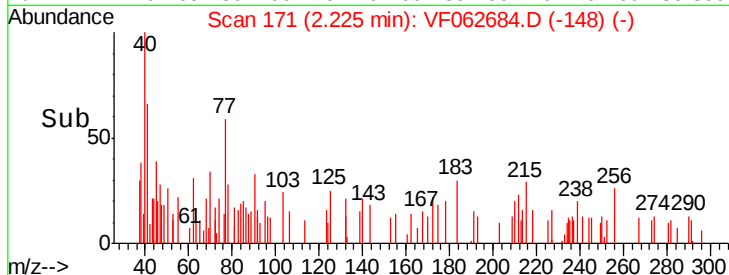
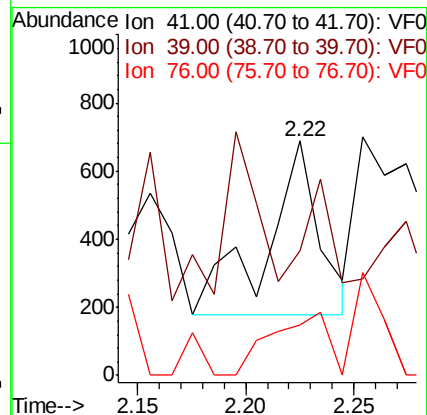
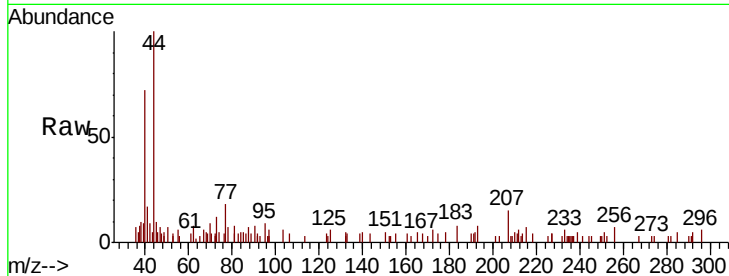
Tot Ion: 41 Resp: 868

Ion Ratio Lower Upper

41 100

39 53.3 72.0 108.0#

76 21.8 34.8 52.2#



#15

Acrylonitrile

Concen: 6.022 ug/l

RT: 3.11 min Scan# 261

Delta R.T. 0.02 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

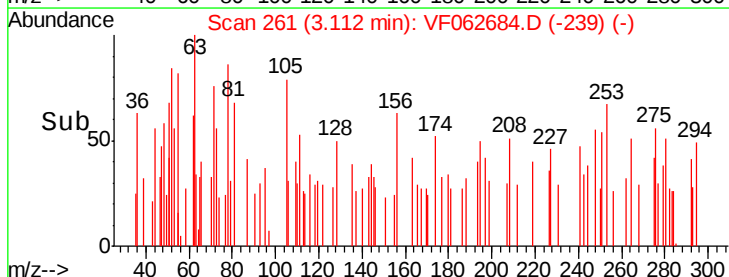
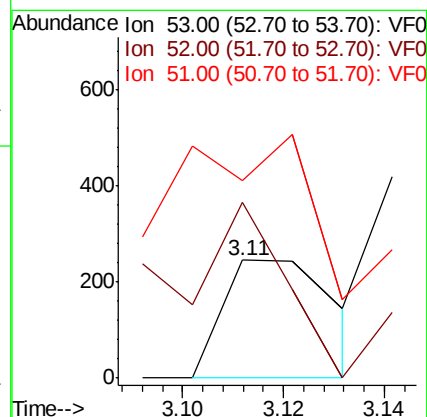
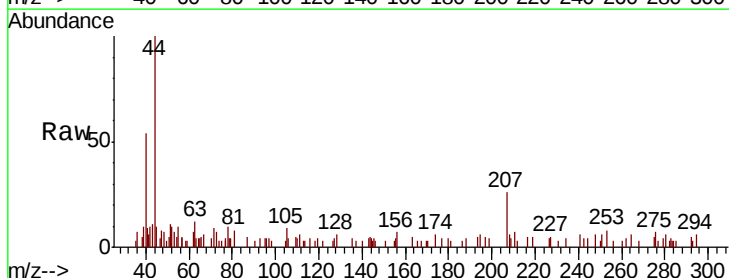
Tgt Ion: 53 Resp: 375

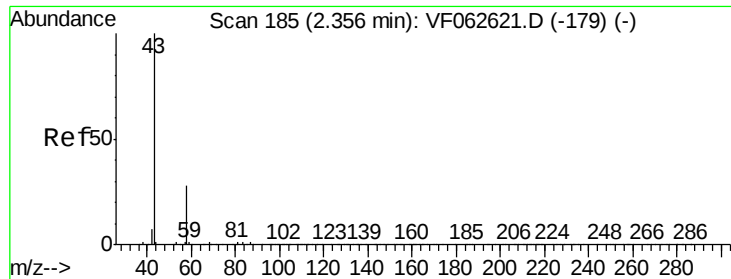
Ion Ratio Lower Upper

53 100

52 149.2 67.3 100.9#

51 167.1 33.0 49.6#





#16

Acetone

Concen: 19.459 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

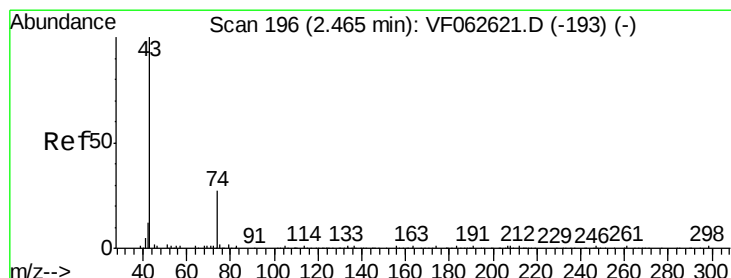
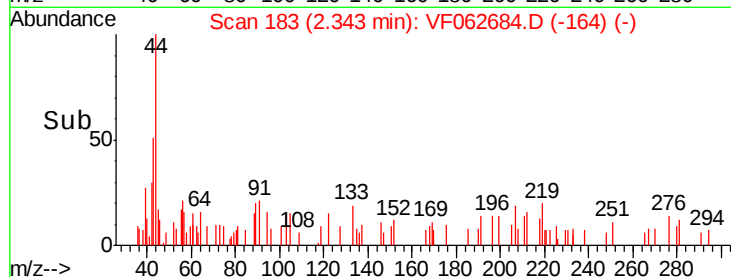
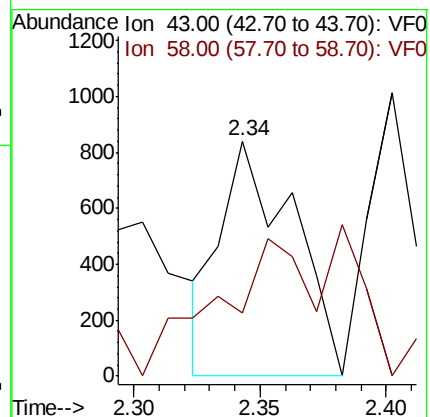
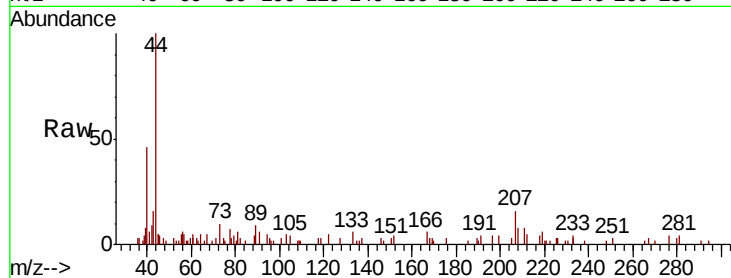
DB-3-4FTRE

Tot Ion: 43 Resp: 1688

Ion Ratio Lower Upper

43 100

58 26.7 22.6 33.8



#18

Methyl Acetate

Concen: 22.536 ug/l

RT: 2.50 min Scan# 199

Delta R.T. 0.04 min

Lab File: VF062684.D

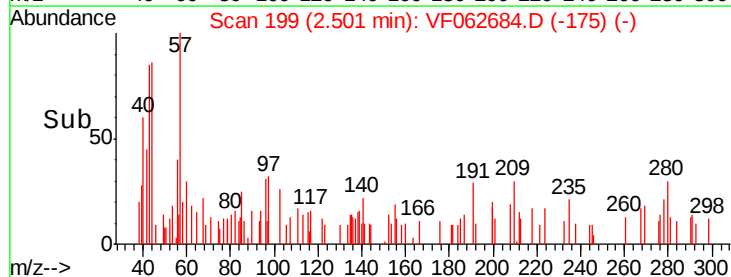
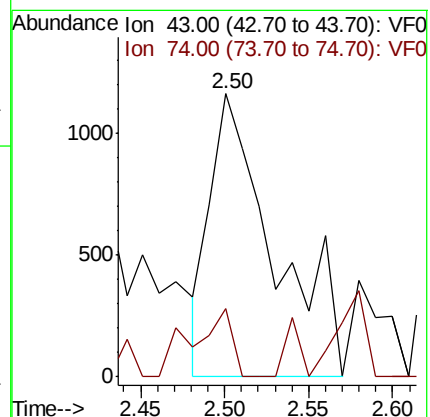
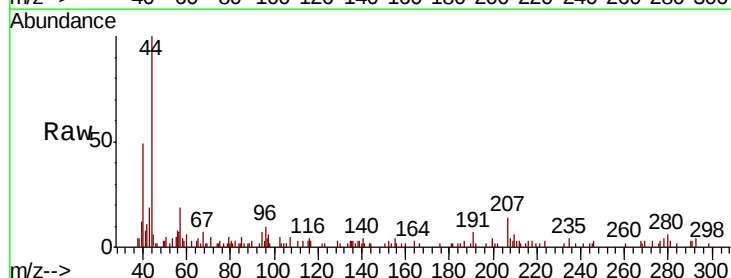
Acq: 21 May 2019 15:47

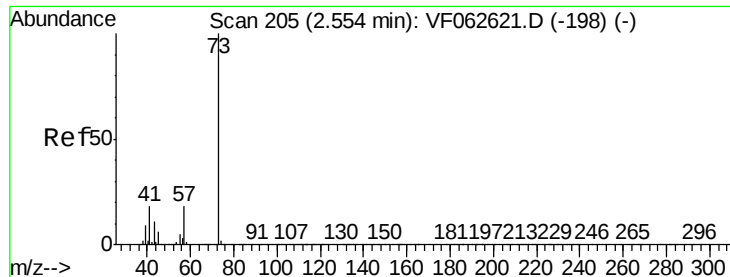
Tgt Ion: 43 Resp: 3072

Ion Ratio Lower Upper

43 100

74 24.1 18.9 28.3



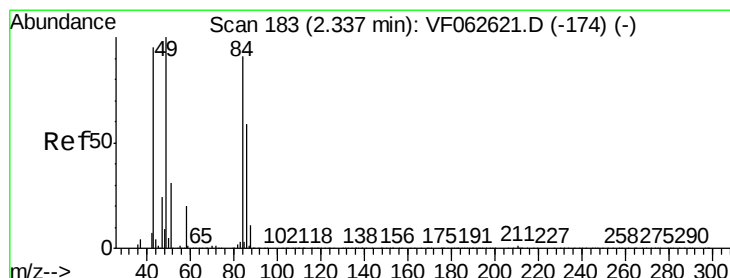
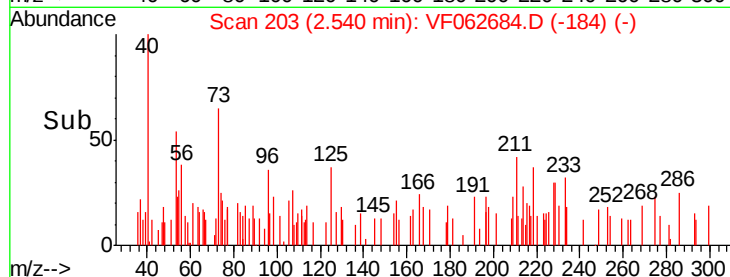
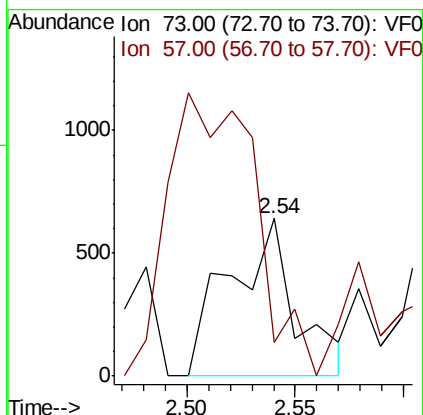
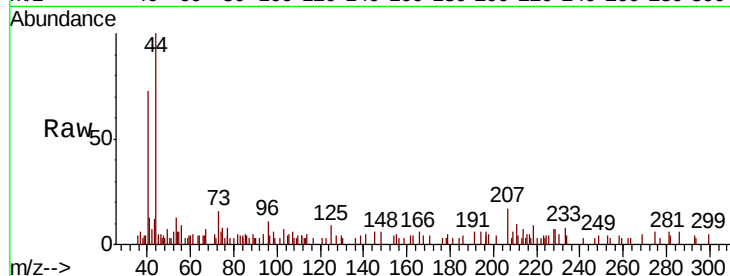


#19

Methyl tert-butyl Ether
 Concen: 1.804 ug/l
 RT: 2.54 min Scan# 203
 Delta R.T. -0.01 min
 Lab File: VF062684.D
 Acq: 21 May 2019 15:47

Instrument :
 MSVOA_F
 ClientSampleId :
 DB-3-4FTRE

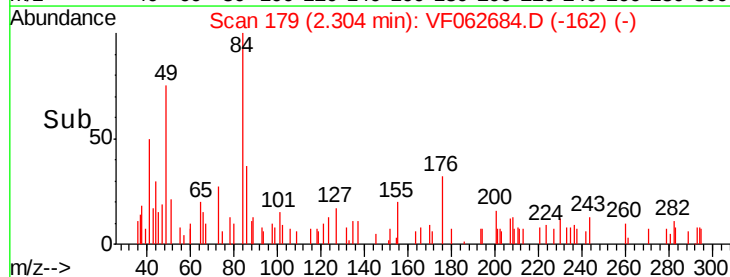
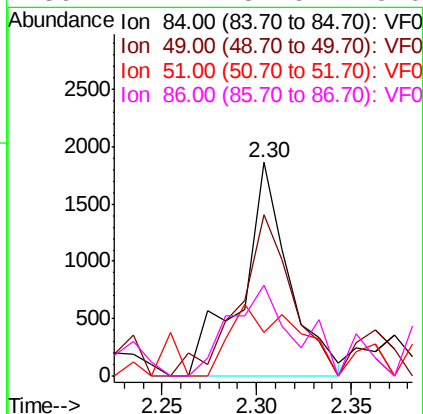
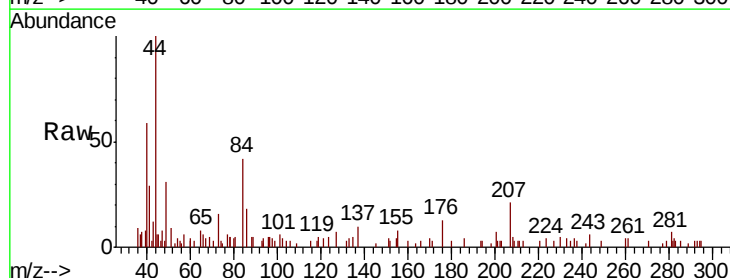
Tot Ion: 73 Resp: 1371
 Ion Ratio Lower Upper
 73 100
 57 21.3 14.2 21.4

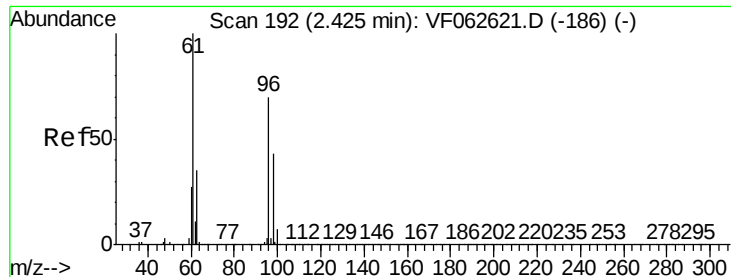


#20

Methylene Chloride
 Concen: 7.479 ug/l
 RT: 2.30 min Scan# 179
 Delta R.T. -0.03 min
 Lab File: VF062684.D
 Acq: 21 May 2019 15:47

Tgt Ion: 84 Resp: 3252
 Ion Ratio Lower Upper
 84 100
 49 75.4 89.8 134.8#
 51 20.6 28.4 42.6#
 86 42.4 52.6 79.0#





#21

trans-1,2-Dichloroethene

Concen: 3.192 ug/l

RT: 2.45 min Scan# 194

Delta R.T. 0.03 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

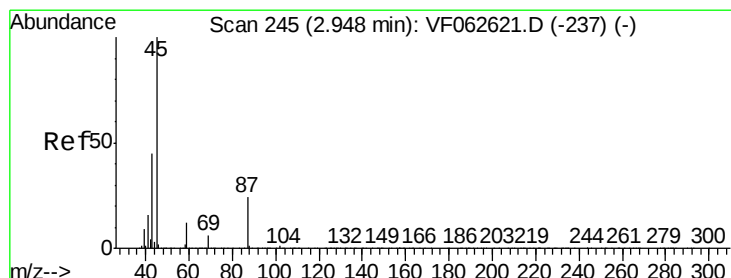
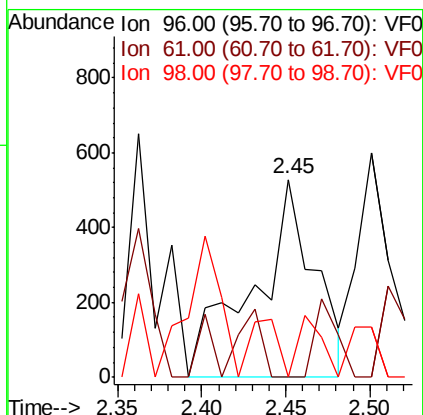
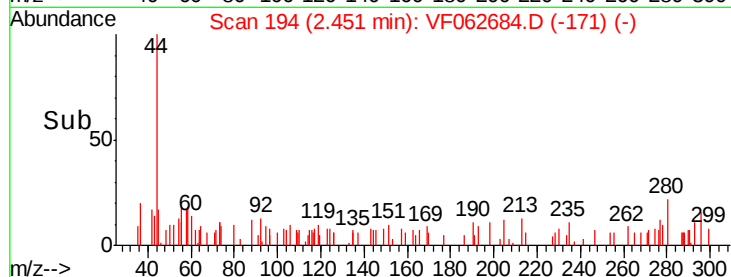
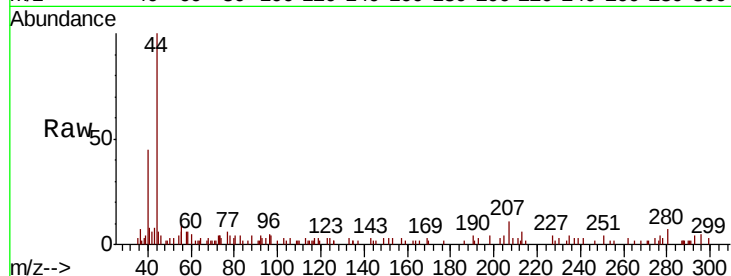
Tot Ion: 96 Resp: 1326

Ion Ratio Lower Upper

96 100

61 0.0 114.6 171.8#

98 0.0 49.5 74.3#



#22

Diisopropyl ether

Concen: 1.645 ug/l

RT: 2.93 min Scan# 243

Delta R.T. -0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Tgt Ion: 45 Resp: 1561

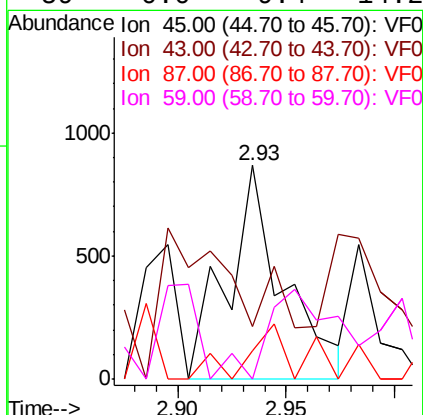
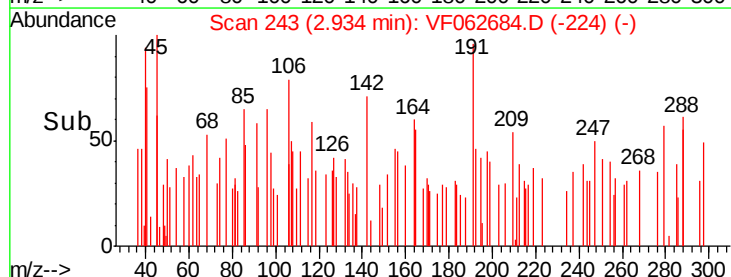
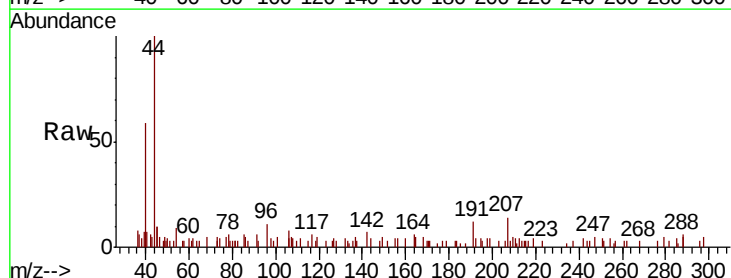
Ion Ratio Lower Upper

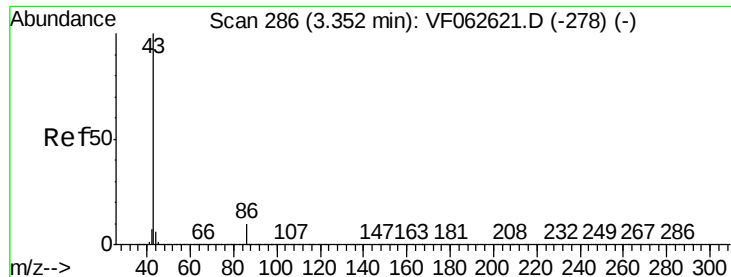
45 100

43 24.5 36.4 54.6#

87 13.4 19.3 28.9#

59 0.0 9.4 14.2#

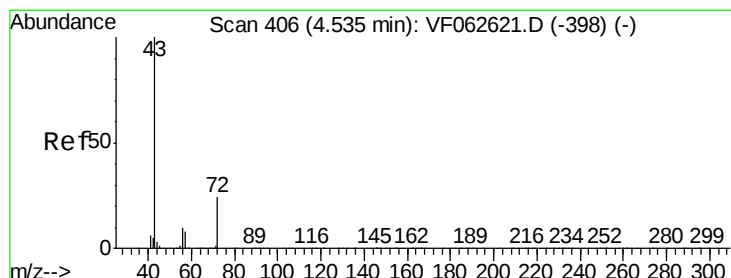
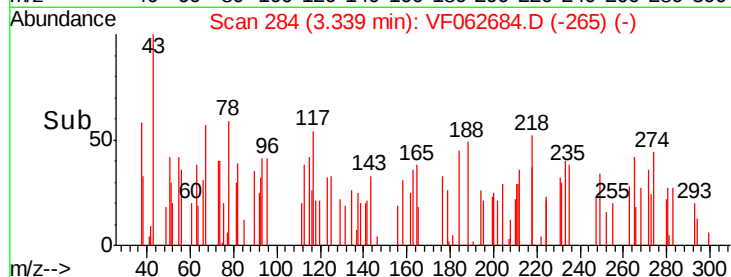
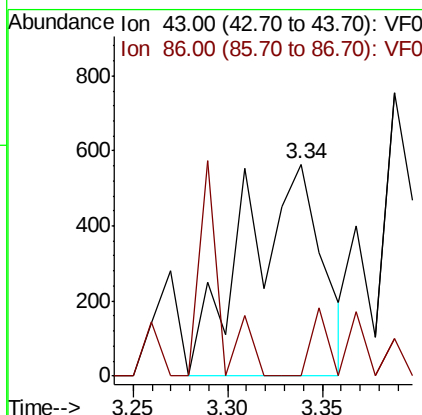
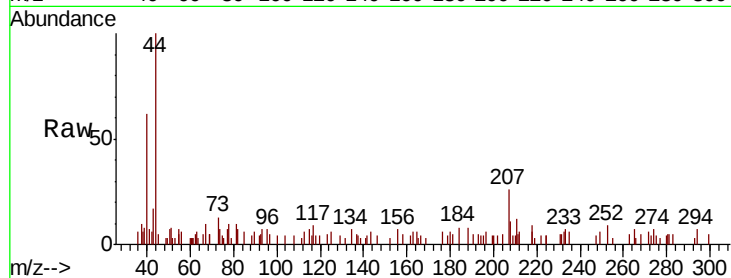




#23
 Vinyl Acetate
 Concen: 2.481 ug/l
 RT: 3.34 min Scan# 284
 Delta R.T. -0.01 min
 Lab File: VF062684.D
 Acq: 21 May 2019 15:47

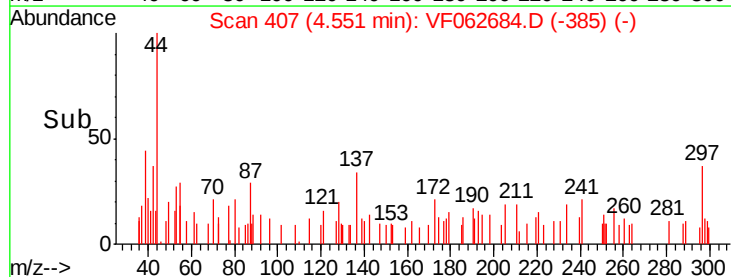
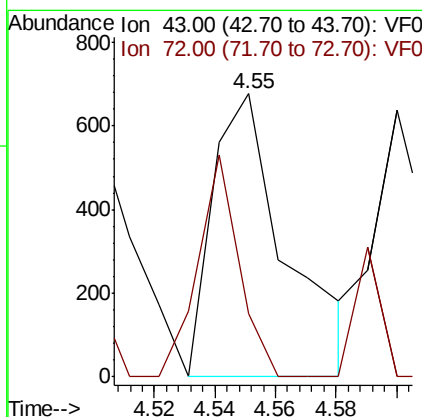
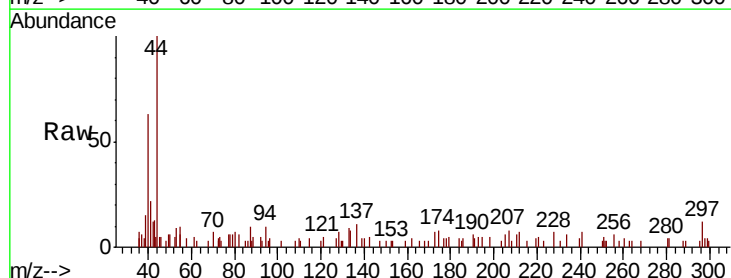
Instrument :
 MSVOA_F
 ClientSampleID :
 DB-3-4FTRE

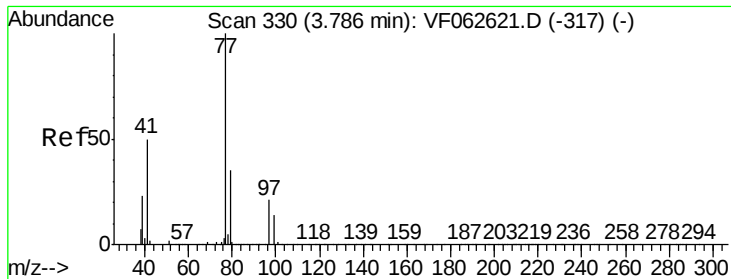
Tot Ion: 43 Resp: 1588
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.2 12.2#



#25
 2-Butanone
 Concen: 6.194 ug/l
 RT: 4.55 min Scan# 407
 Delta R.T. 0.02 min
 Lab File: VF062684.D
 Acq: 21 May 2019 15:47

Tgt Ion: 43 Resp: 1148
 Ion Ratio Lower Upper
 43 100
 72 22.3 20.1 30.1





#26

2,2-Dichloropropane

Concen: 1.534 ug/l

RT: 3.83 min Scan# 334

Delta R.T. 0.05 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

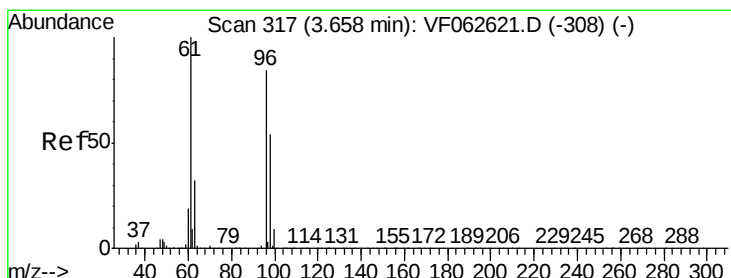
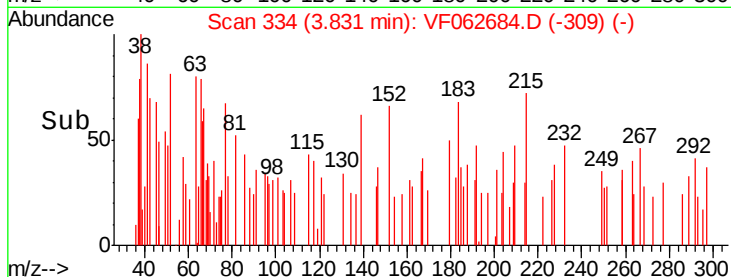
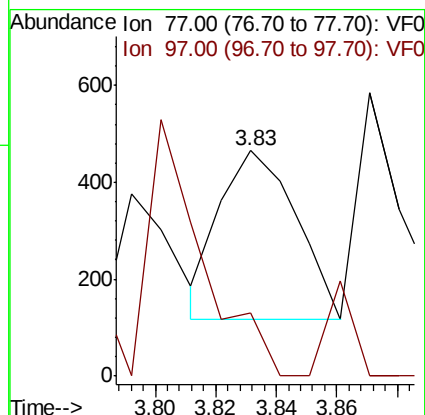
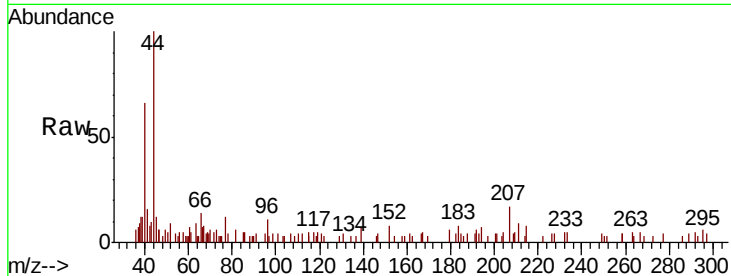
DB-3-4FTRE

Tot Ion: 77.00 Resp: 611

Ion Ratio Lower Upper

77 100

97 27.7 14.1 42.4



#27

cis-1,2-Dichloroethene

Concen: 1.178 ug/l

RT: 3.65 min Scan# 316

Delta R.T. -0.00 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

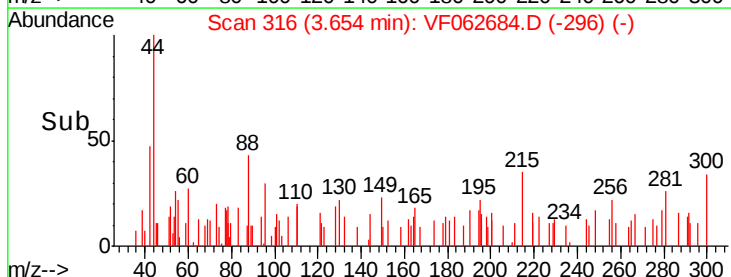
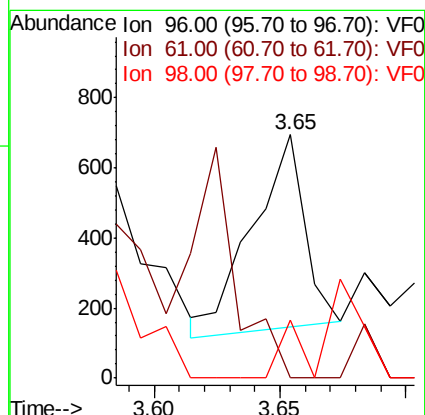
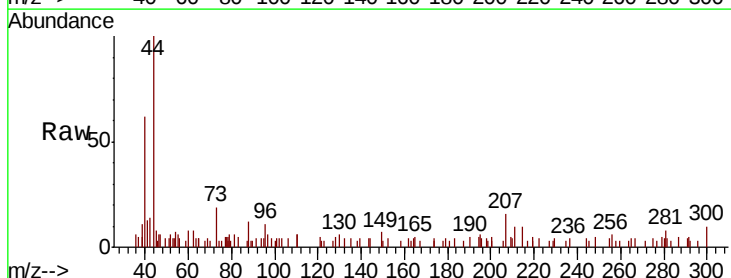
Tgt Ion: 96 Resp: 805

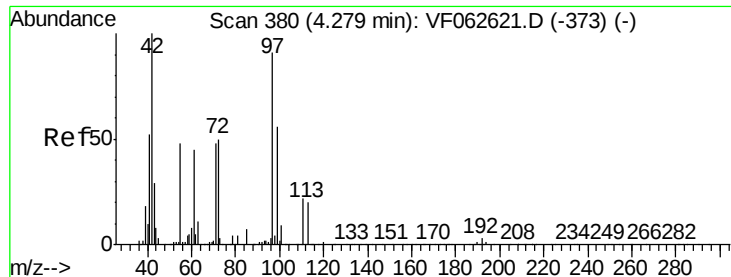
Ion Ratio Lower Upper

96 100

61 0.0 0.0 237.4

98 23.6 0.0 129.0





#29

Tetrahydrofuran

Concen: 5.693 ug/l

RT: 4.28 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

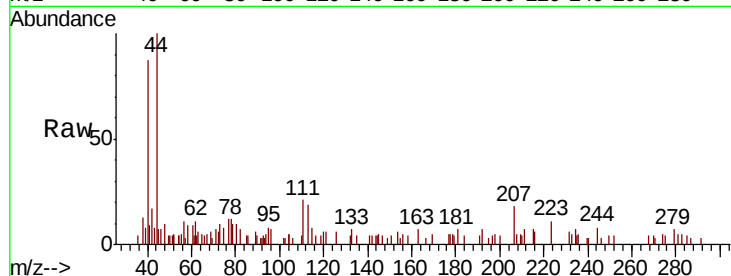
Tot Ion: 42 Resp: 427

Ion Ratio Lower Upper

42 100

72 0.0 38.2 57.2#

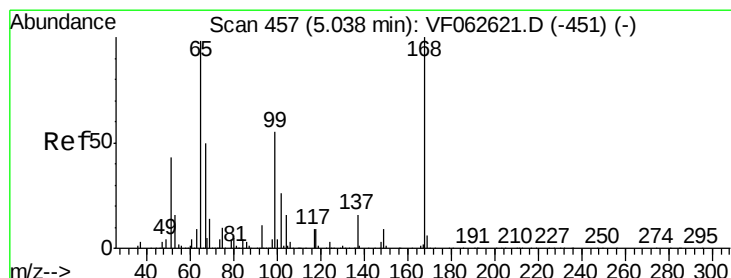
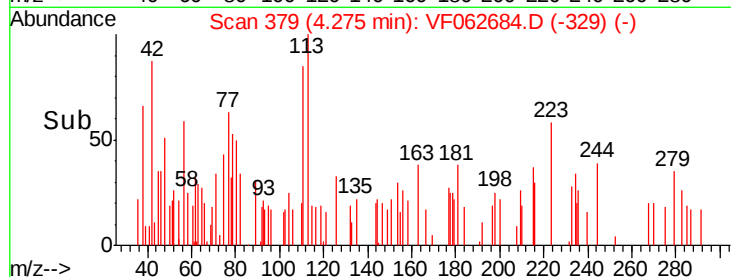
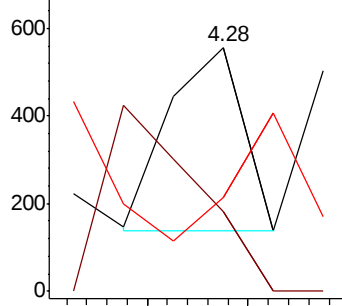
71 109.6 35.8 53.6#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 13.697 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF062684.D

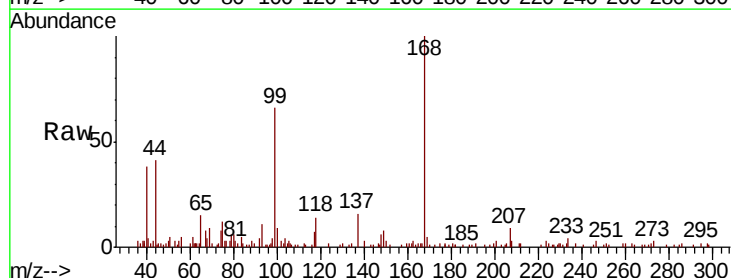
Acq: 21 May 2019 15:47

Tgt Ion: 65 Resp: 4580

Ion Ratio Lower Upper

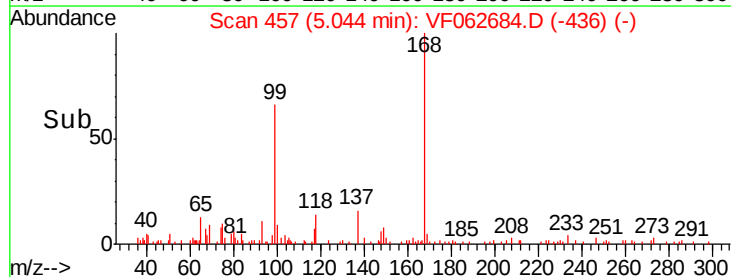
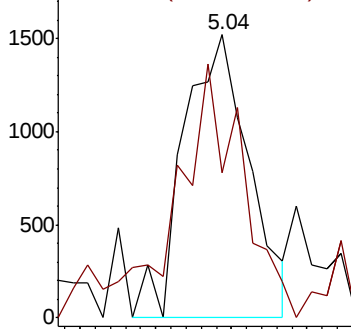
65 100

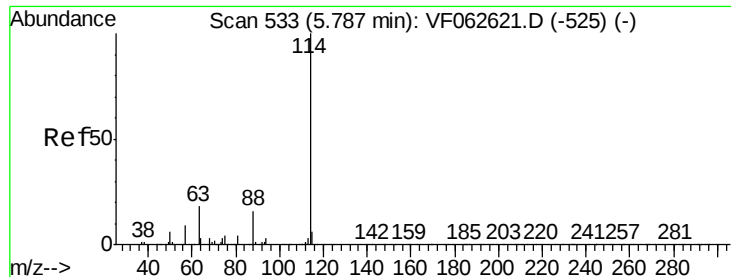
67 51.2 0.0 117.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 532

Delta R.T. -0.00 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

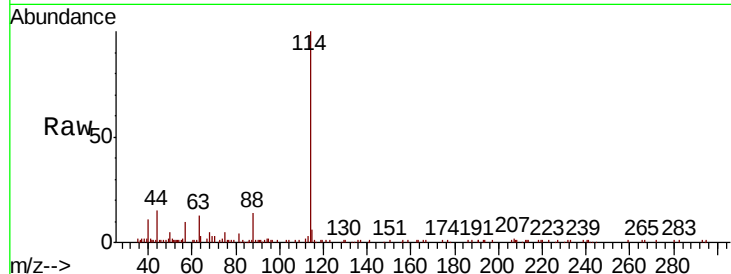
Tot Ion:114 Resp: 58838

Ion Ratio Lower Upper

114 100

63 12.7 0.0 35.4

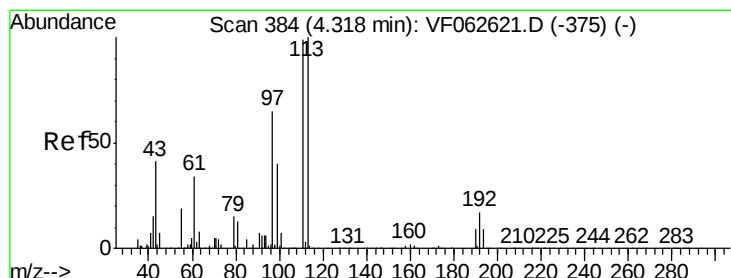
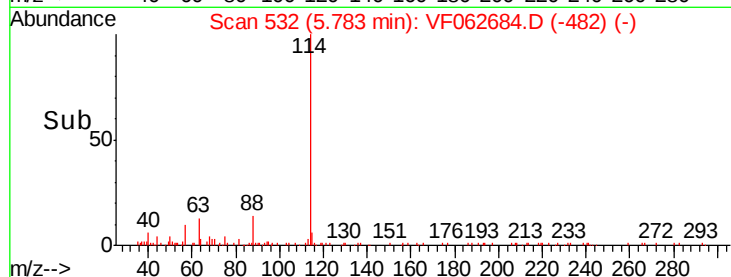
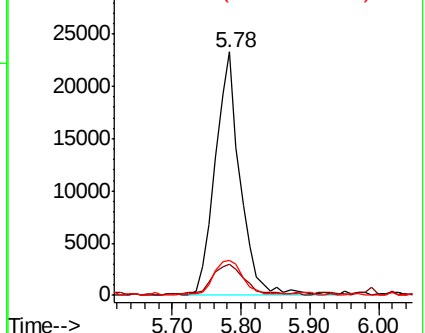
88 14.3 0.0 32.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 24.836 ug/l

RT: 4.31 min Scan# 383

Delta R.T. -0.00 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

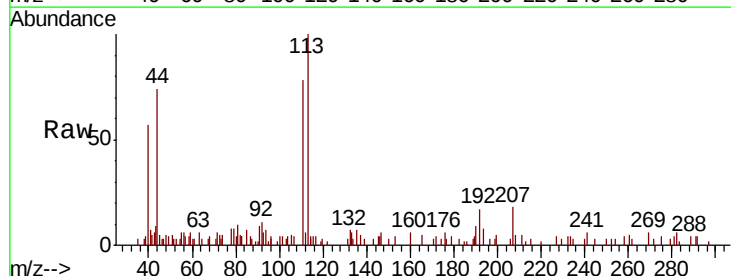
Tgt Ion:113 Resp: 11182

Ion Ratio Lower Upper

113 100

111 83.6 79.4 119.2

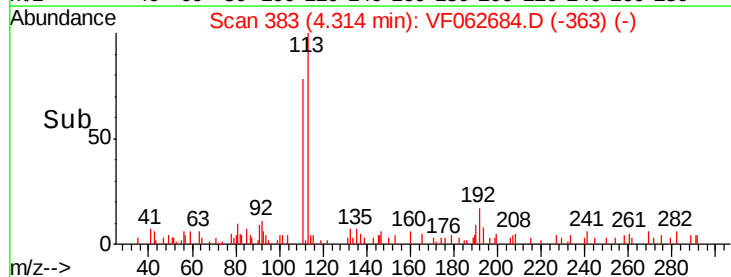
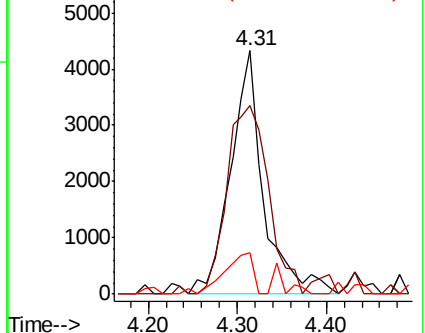
192 16.8 13.4 20.2

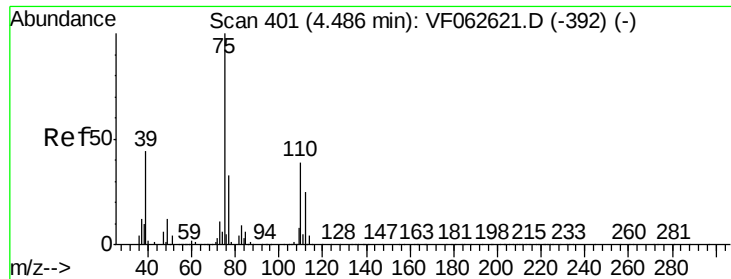


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 1.334 ug/l

RT: 4.50 min Scan# 402

Delta R.T. 0.02 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

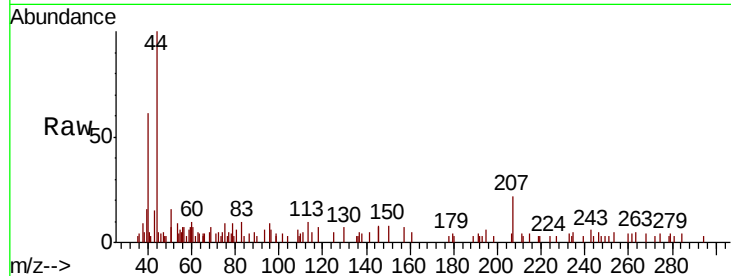
Tot Ion: 75 Resp: 804

Ion Ratio Lower Upper

75 100

110 0.0 19.7 59.1#

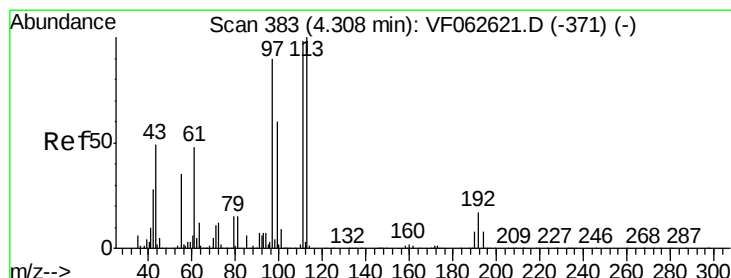
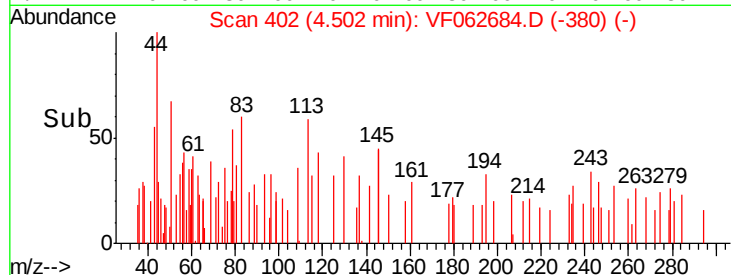
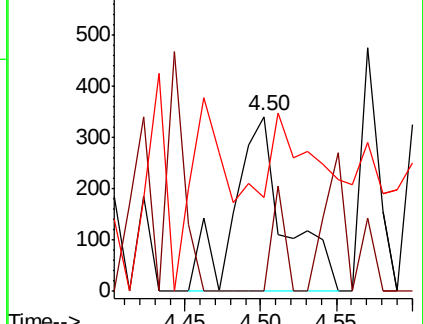
77 53.7 26.3 39.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 3.571 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

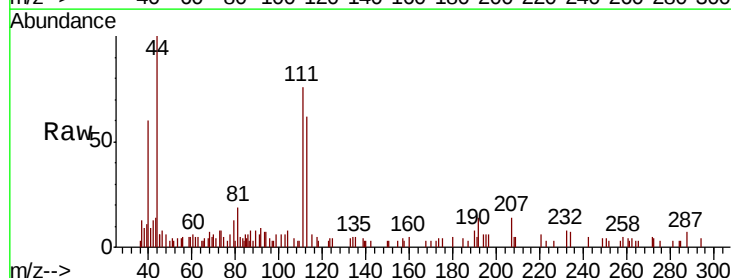
Tgt Ion: 43 Resp: 879

Ion Ratio Lower Upper

43 100

61 36.7 76.9 115.3#

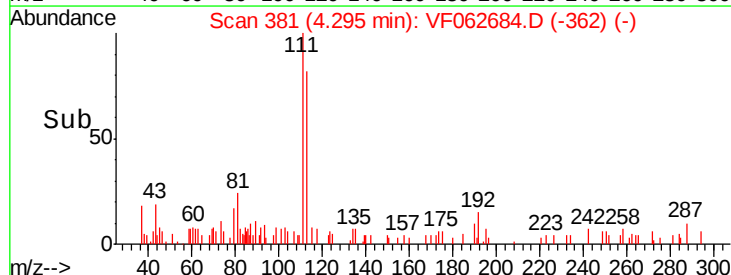
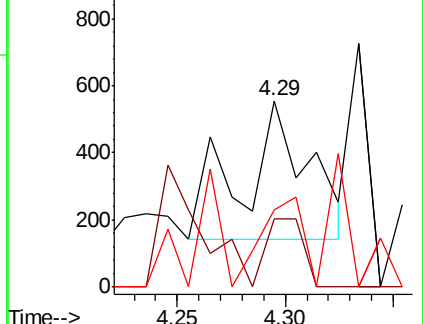
70 41.2 8.8 13.2#

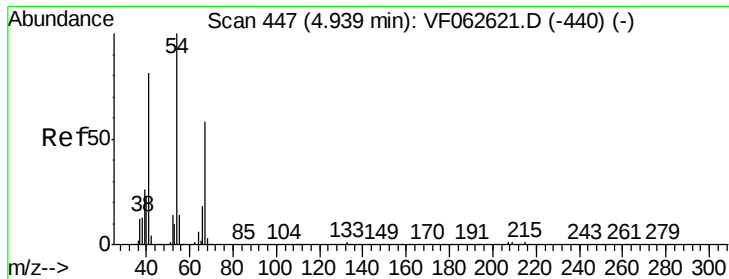


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#41

Methacrylonitrile

Concen: 12.266 ug/l

RT: 4.98 min Scan# 451

Delta R.T. 0.05 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

Tot Ion: 41 Resp: 1583

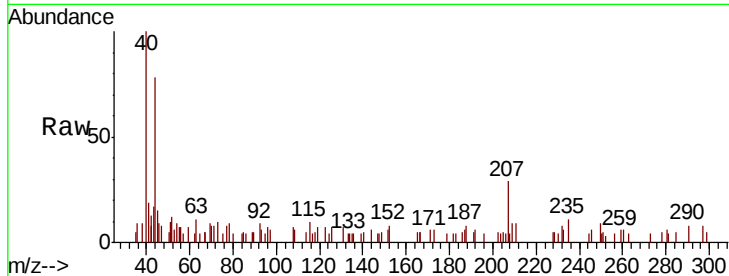
Ion Ratio Lower Upper

41 100

39 0.0 42.2 63.2#

67 48.6 56.4 84.6#

52 59.1 38.8 58.2#

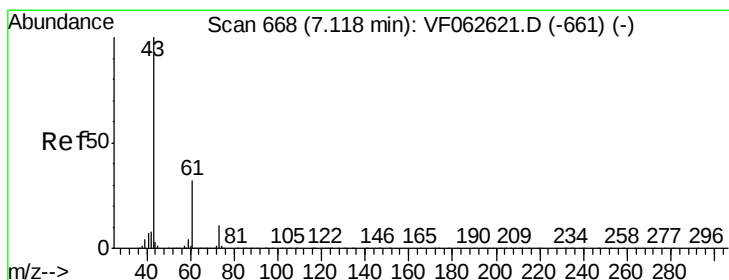
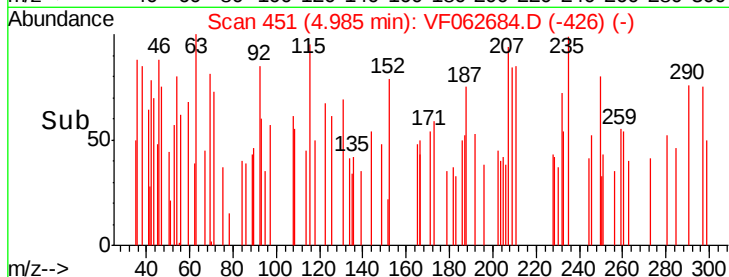
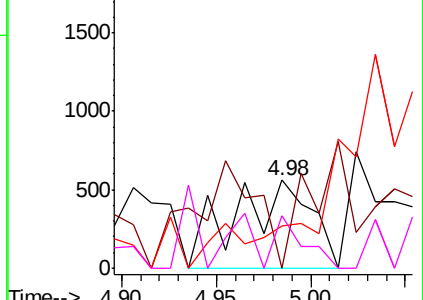


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 1.602 ug/l

RT: 7.08 min Scan# 664

Delta R.T. -0.03 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

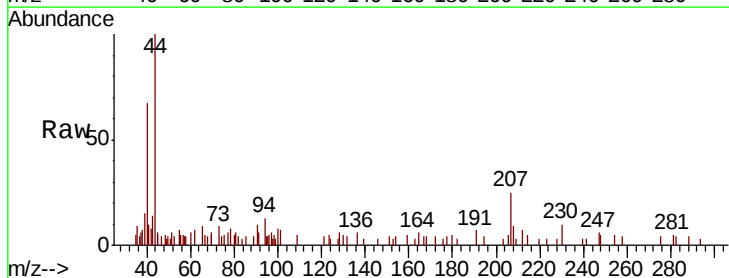
Tgt Ion: 43 Resp: 511

Ion Ratio Lower Upper

43 100

61 0.0 25.8 38.8#

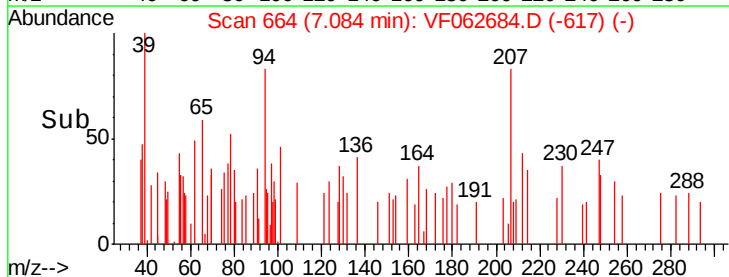
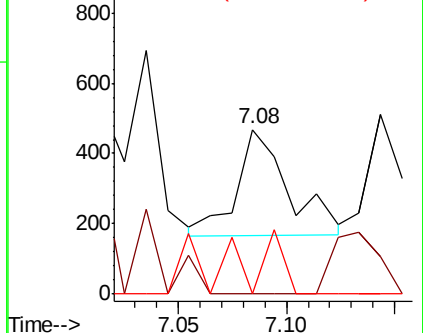
87 0.0 0.4 0.6#

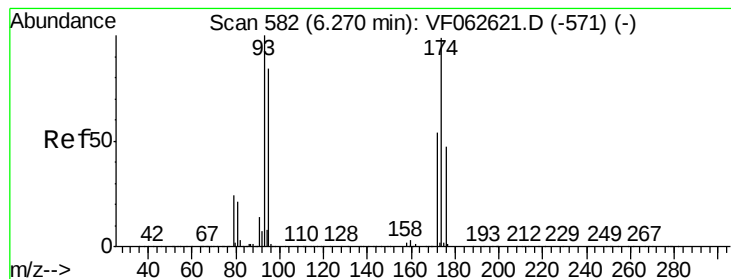


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#46

Dibromomethane

Concen: 1.352 ug/l

RT: 6.28 min Scan# 582

Delta R.T. 0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

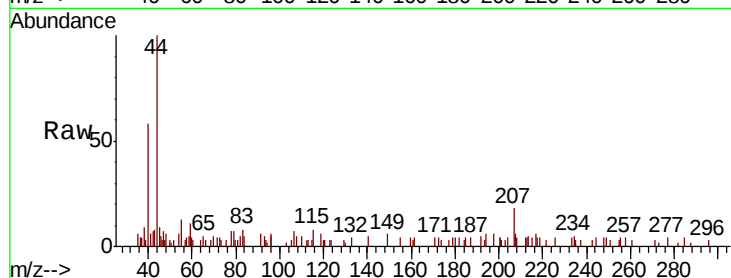
Tot Ion: 93 Resp: 324

Ion Ratio Lower Upper

93 100

95 113.3 67.4 101.2#

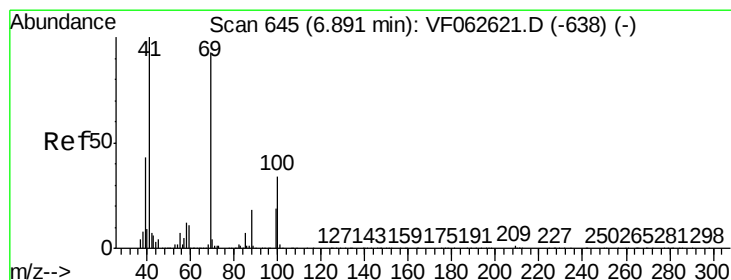
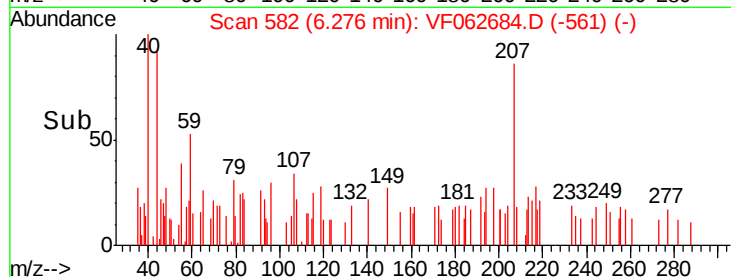
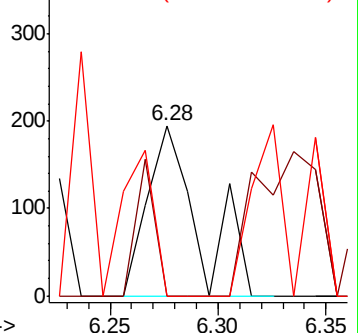
174 0.0 79.4 119.2#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V



#48

Methyl methacrylate

Concen: 6.065 ug/l

RT: 6.91 min Scan# 646

Delta R.T. 0.02 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

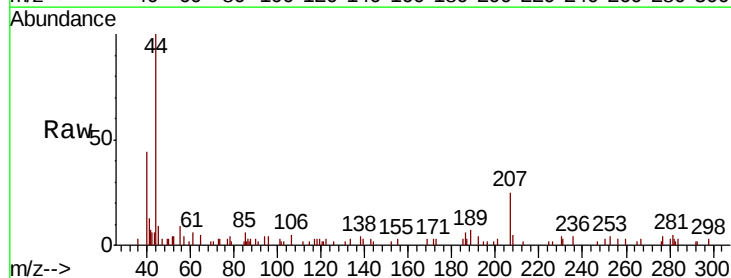
Tgt Ion: 41 Resp: 1011

Ion Ratio Lower Upper

41 100

69 15.9 74.2 111.2#

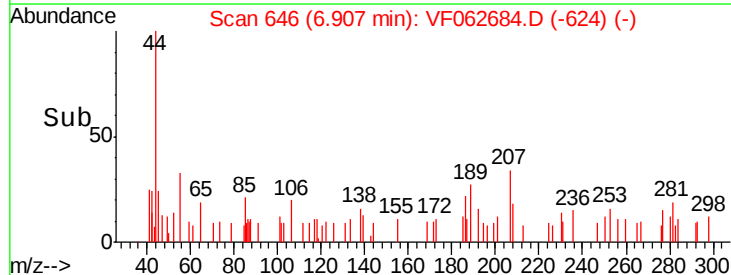
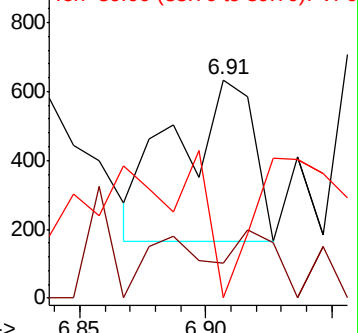
39 0.0 34.2 51.4#

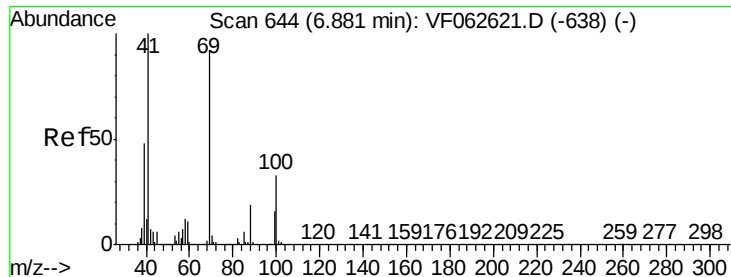


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

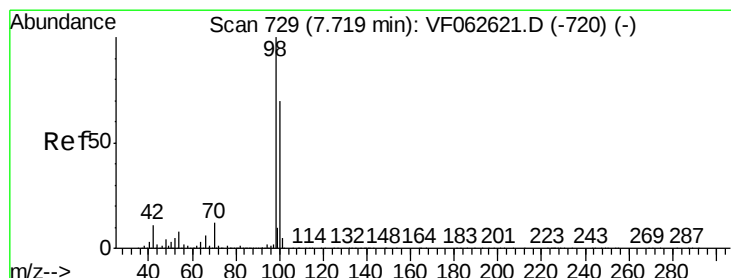
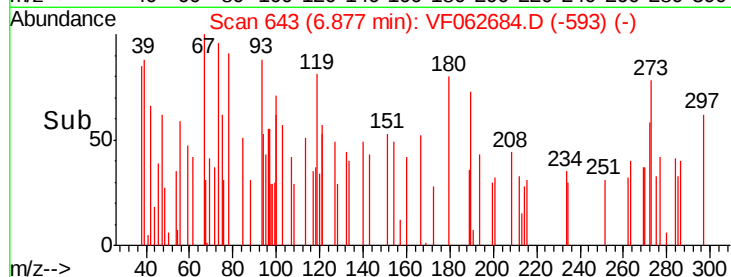
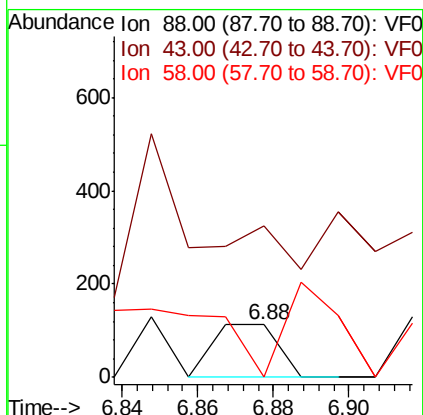
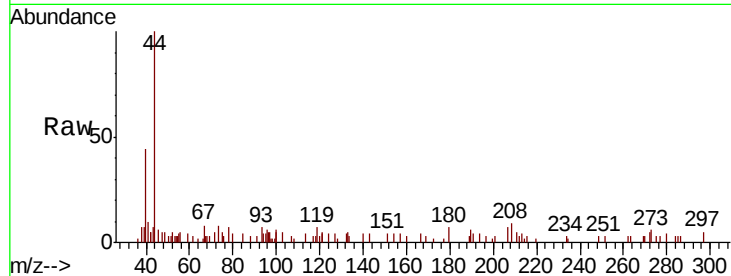




#49
1,4-Dioxane
Concen: 62.295 ug/l
RT: 6.88 min Scan# 643
Delta R.T. -0.00 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

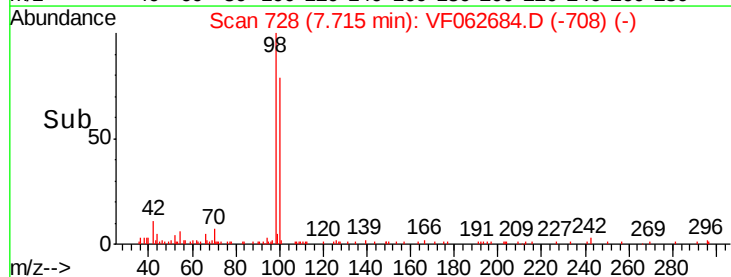
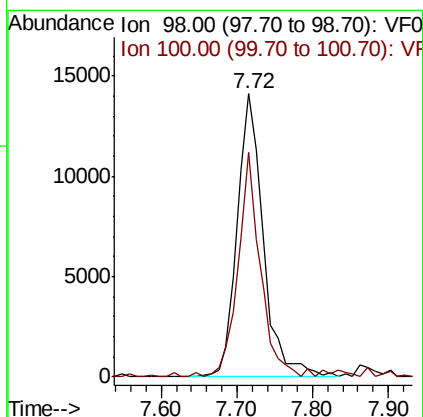
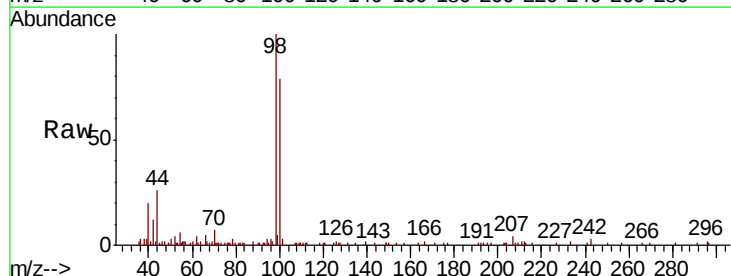
Instrument :
MSVOA_F
ClientSampleId :
DB-3-4FTRE

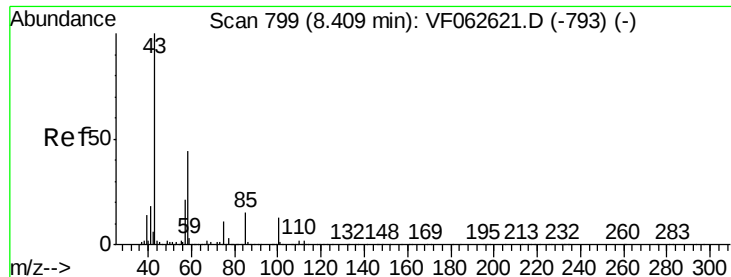
Tot Ion: 88 Resp: 133
Ion Ratio Lower Upper
88 100
43 287.6 30.0 45.0#
58 0.0 51.1 76.7#



#50
Toluene-d8
Concen: 31.286 ug/l
RT: 7.72 min Scan# 728
Delta R.T. -0.00 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

Tgt Ion: 98 Resp: 33632
Ion Ratio Lower Upper
98 100
100 79.5 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 1.257 ug/l

RT: 8.55 min Scan# 813

Delta R.T. 0.14 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

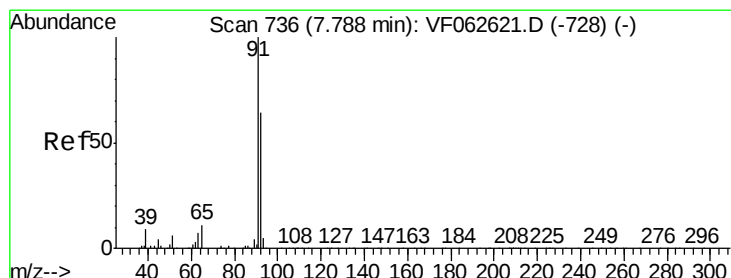
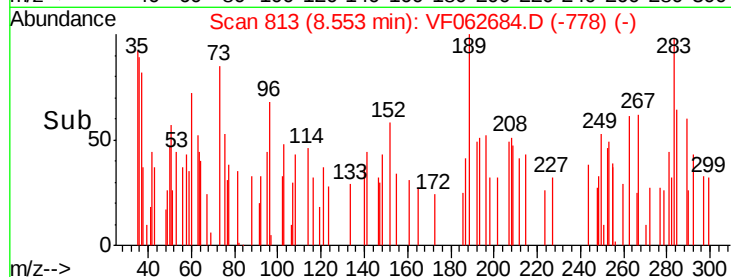
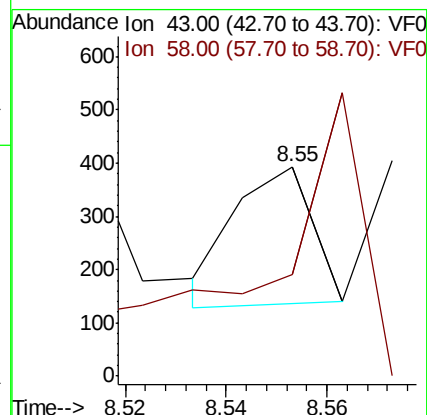
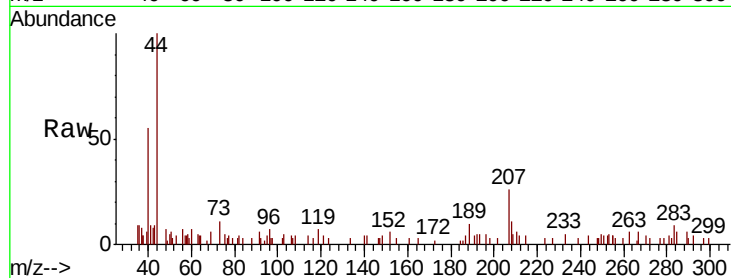
DB-3-4FTRE

Tot Ion: 43 Resp: 274

Ion Ratio Lower Upper

43 100

58 48.6 34.9 52.3



#52

Toluene

Concen: 3.074 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF062684.D

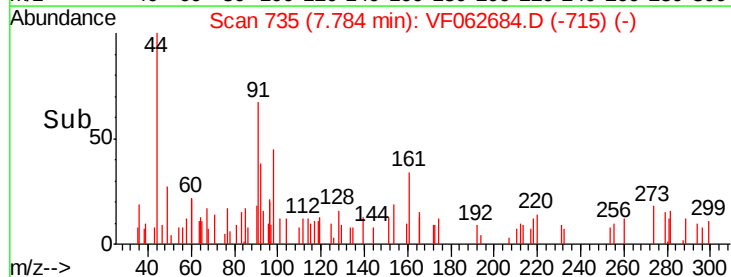
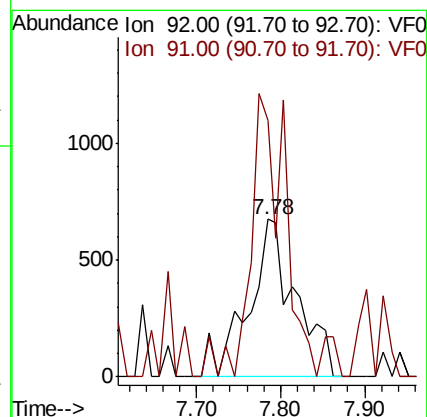
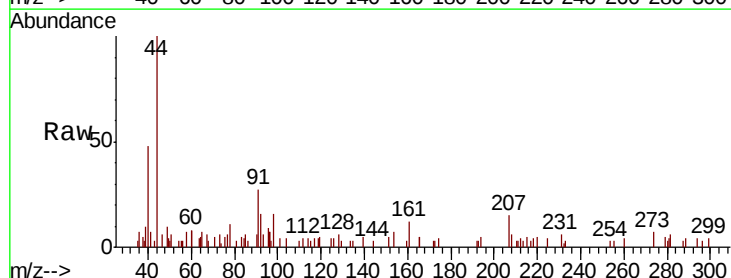
Acq: 21 May 2019 15:47

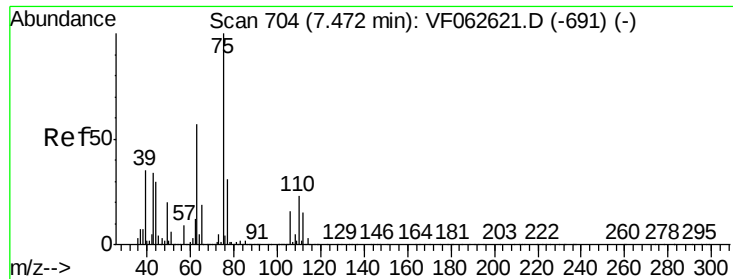
Tgt Ion: 92 Resp: 2648

Ion Ratio Lower Upper

92 100

91 162.7 125.4 188.0





#54

cis-1,3-Dichloropropene

Concen: 1.125 ug/l

RT: 7.46 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

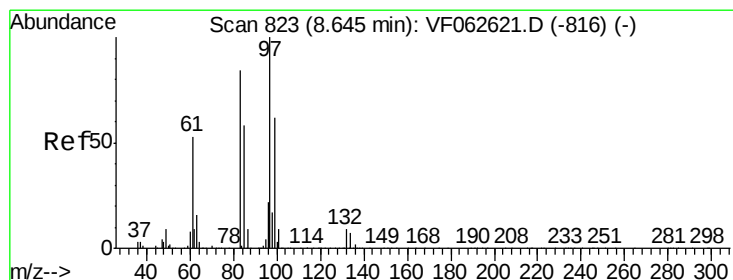
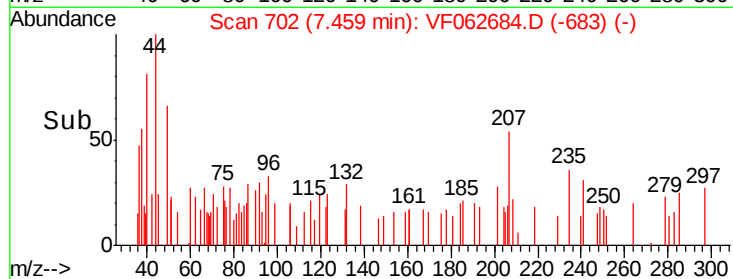
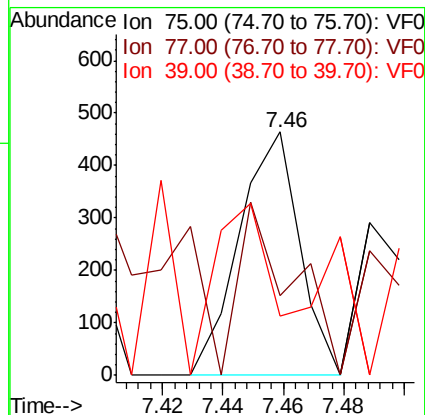
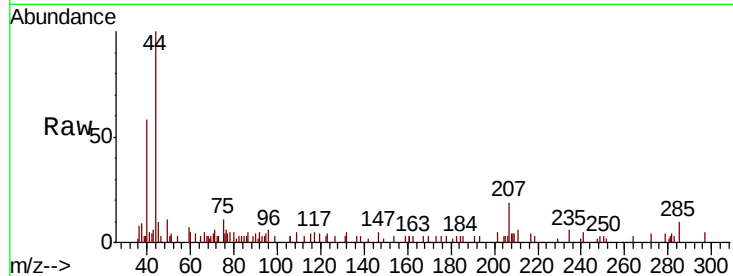
Tot Ion: 75 Resp: 641

Ion Ratio Lower Upper

75 100

77 33.0 25.3 37.9

39 24.4 28.2 42.2#



#55

1,1,2-Trichloroethane

Concen: 1.643 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Tgt Ion: 97 Resp: 419

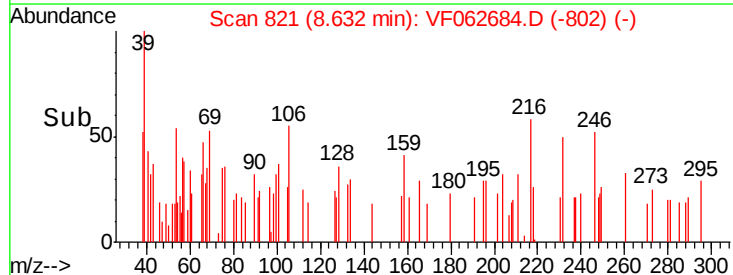
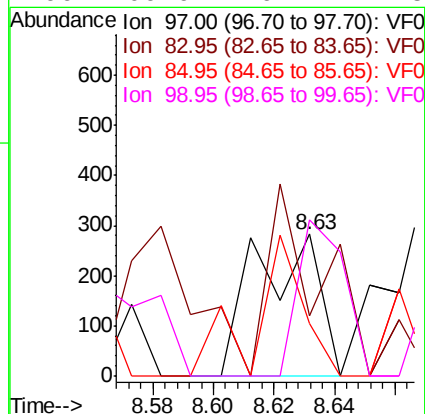
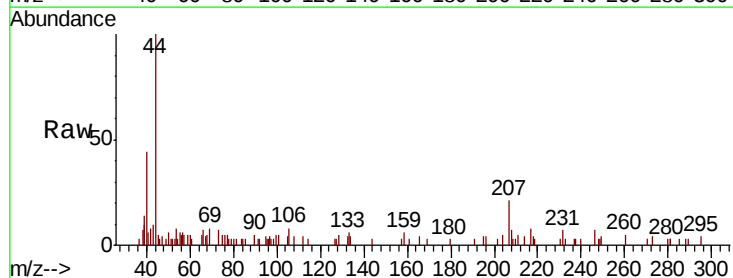
Ion Ratio Lower Upper

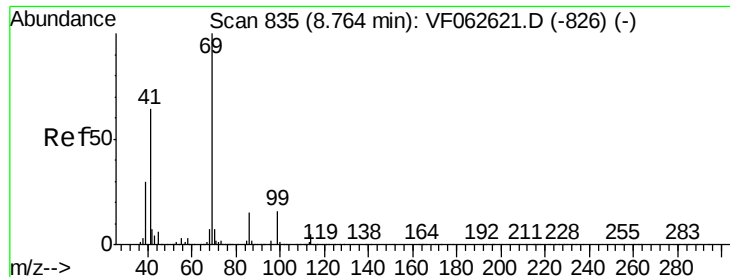
97 100

83 42.0 67.3 100.9#

85 37.1 46.6 69.8#

99 109.9 49.7 74.5#

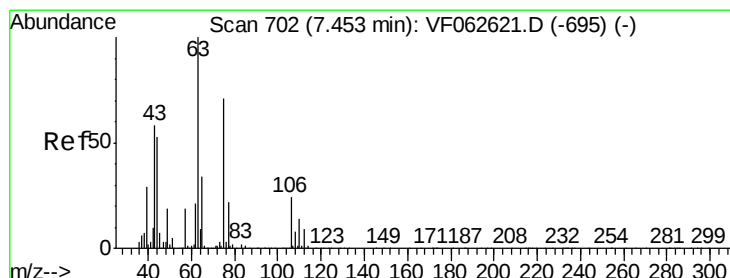
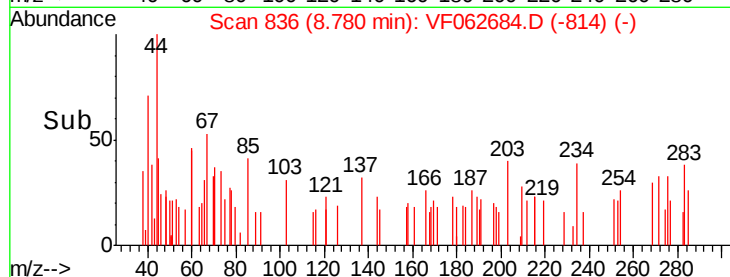
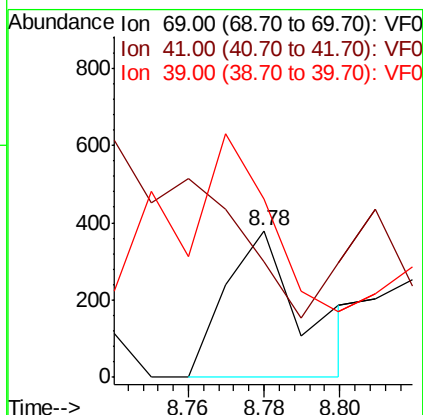
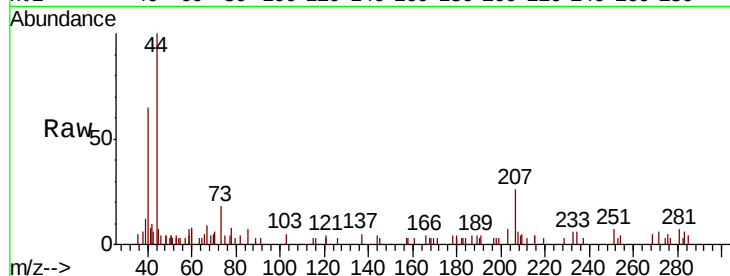




#56
Ethyl methacrylate
Concen: 1.777 ug/l
RT: 8.78 min Scan# 836
Delta R.T. 0.02 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

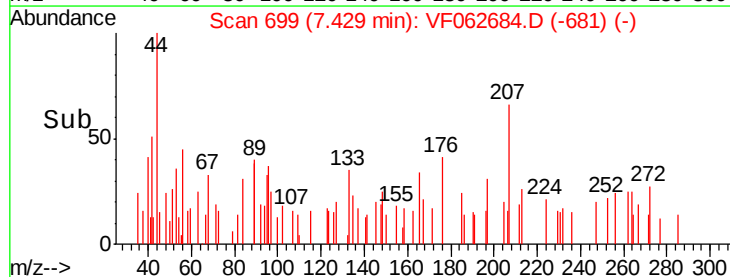
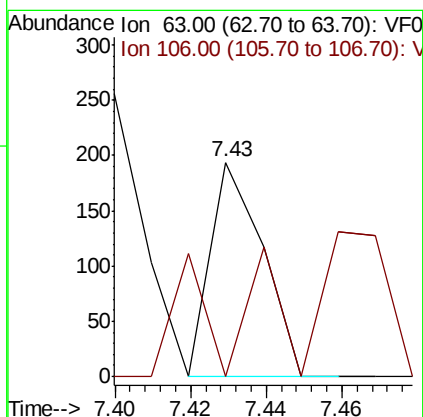
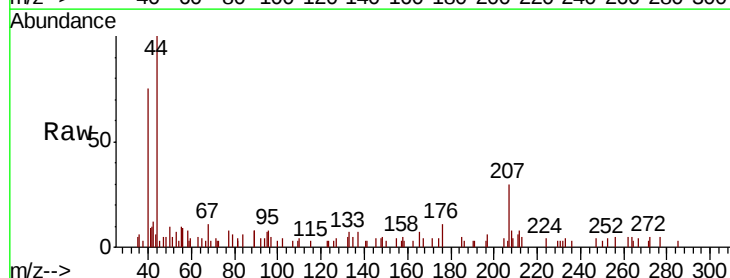
Instrument :
MSVOA_F
ClientSampleID :
DB-3-4FTRE

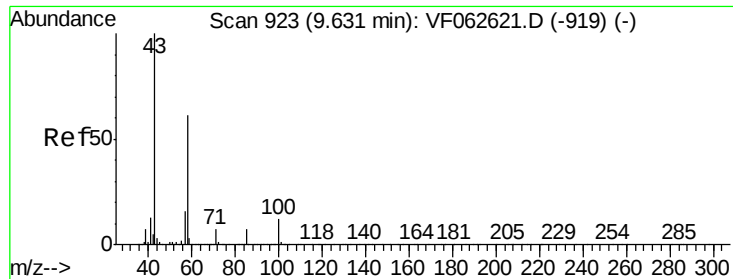
Tot Ion: 69 Resp: 540
Ion Ratio Lower Upper
69 100
41 78.4 51.4 77.2#
39 121.8 23.6 35.4#



#58
2-Chloroethyl Vinyl ether
Concen: 1.860 ug/l
RT: 7.43 min Scan# 699
Delta R.T. -0.02 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

Tgt Ion: 63 Resp: 184
Ion Ratio Lower Upper
63 100
106 0.0 19.1 28.7#

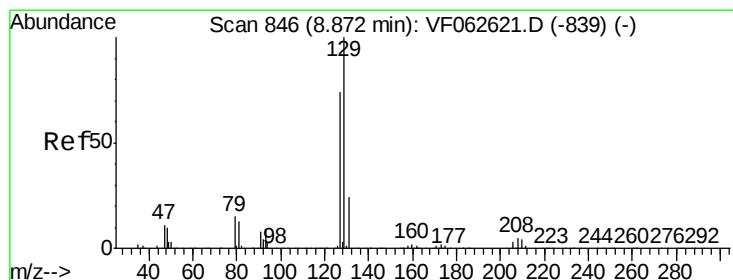
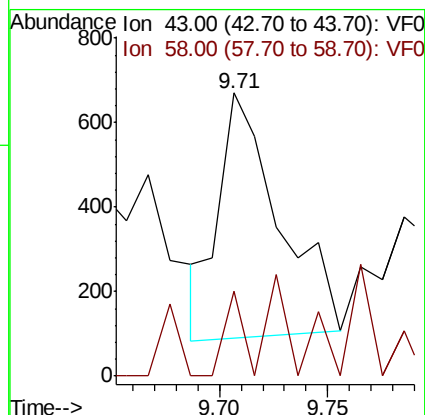
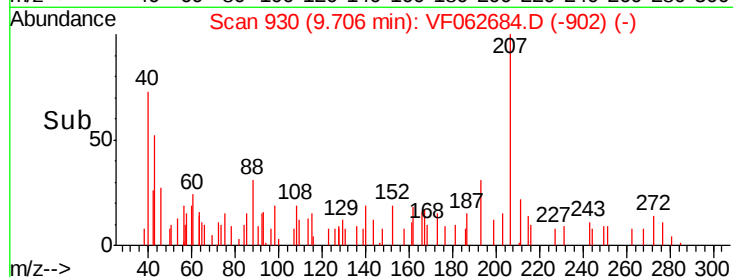
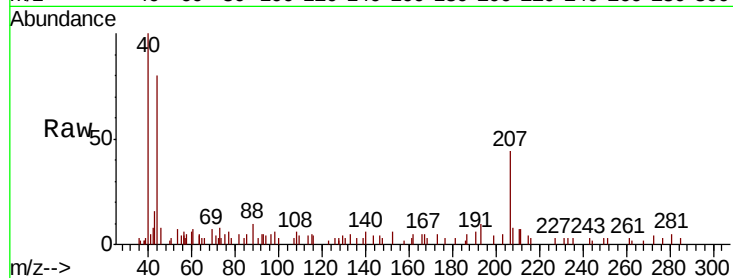




#59
2-Hexanone
Concen: Below Cal
RT: 9.71 min Scan# 930
Delta R.T. 0.08 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

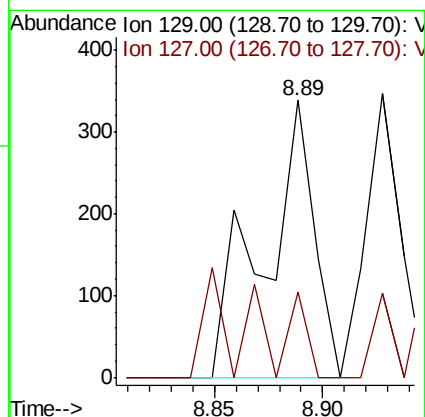
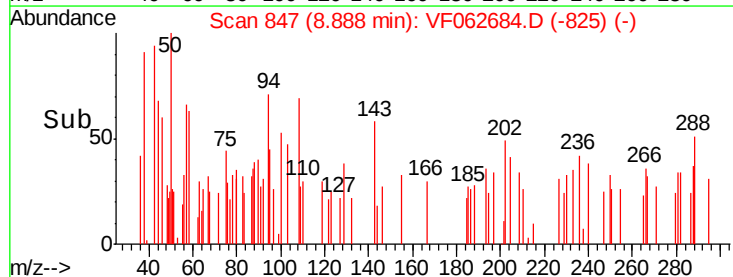
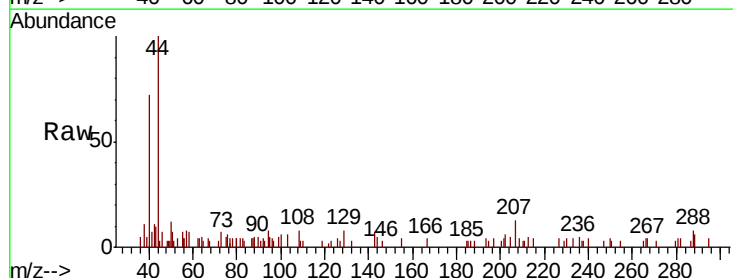
Instrument :
MSVOA_F
ClientSampleId :
DB-3-4FTRE

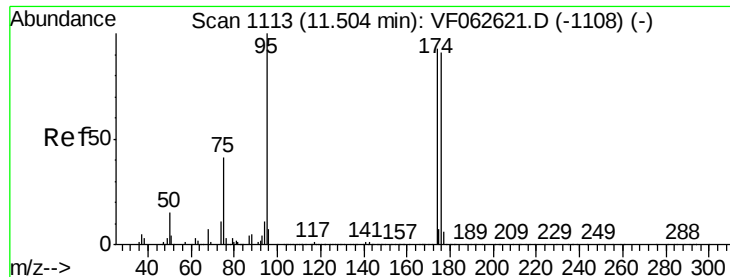
Tot Ion: 43 Resp: 1129
Ion Ratio Lower Upper
43 100
58 30.0 28.1 84.4



#60
Dibromochloromethane
Concen: 1.661 ug/l
RT: 8.89 min Scan# 847
Delta R.T. 0.02 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

Tgt Ion: 129 Resp: 552
Ion Ratio Lower Upper
129 100
127 31.0 37.2 111.6#

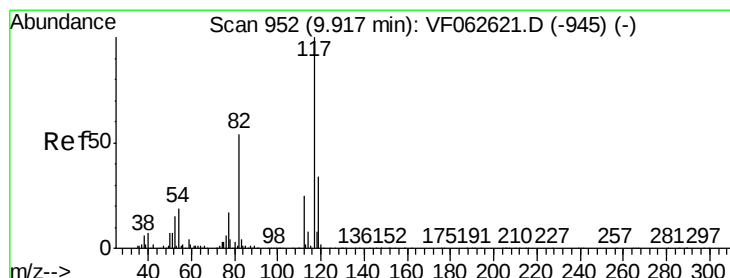
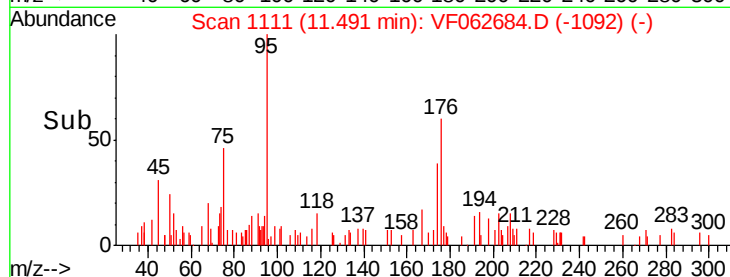
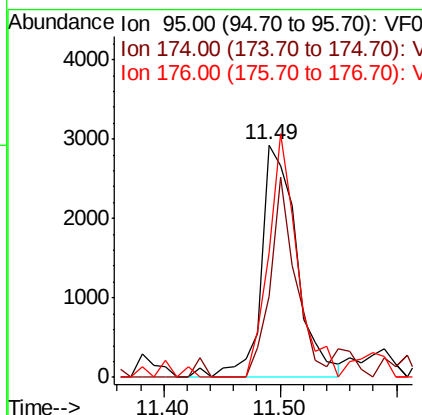
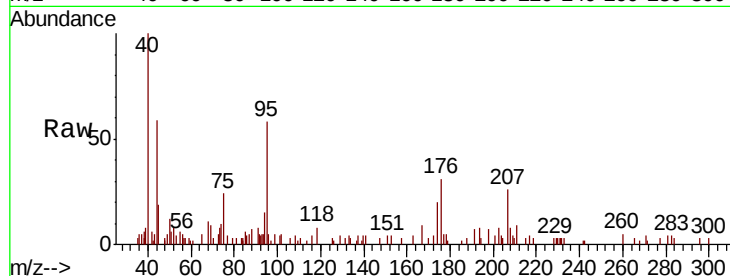




#62
4-Bromofluorobenzene
Concen: 15.175 ug/l
RT: 11.49 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

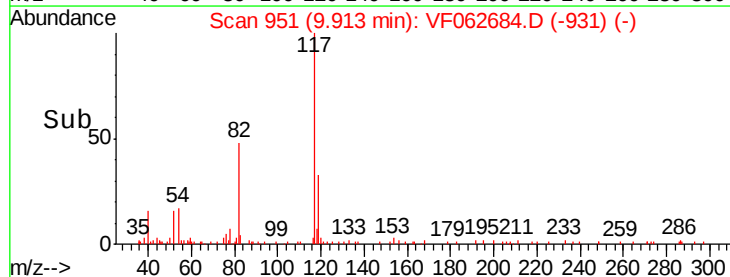
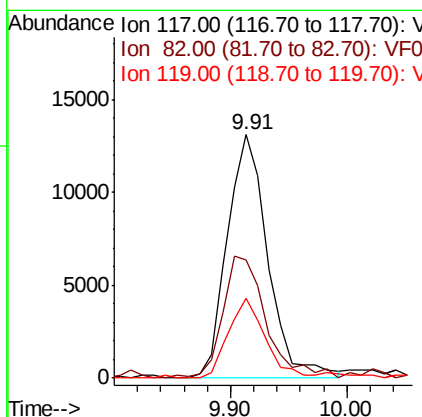
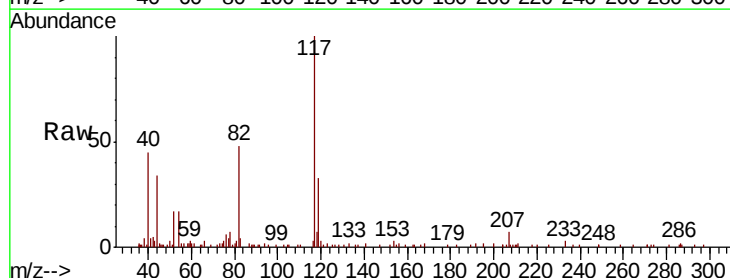
Instrument :
MSVOA_F
ClientSampleId :
DB-3-4FTRE

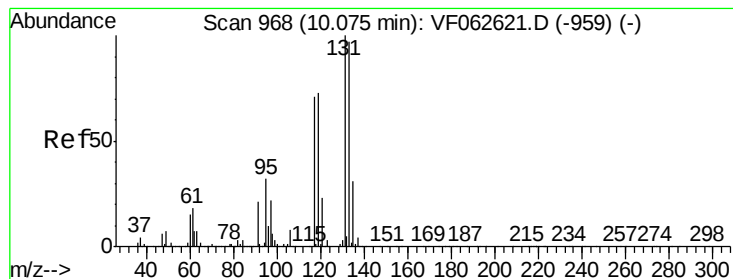
Tot Ion: 95 Resp: 6187
Ion Ratio Lower Upper
95 100
174 34.8 0.0 185.6
176 53.8 0.0 182.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF062684.D
Acq: 21 May 2019 15:47

Tgt Ion: 117 Resp: 31648
Ion Ratio Lower Upper
117 100
82 48.3 43.3 64.9
119 32.9 27.4 41.0





#66

1,1,1,2-Tetrachloroethane

Concen: 1.022 ug/l

RT: 10.13 min Scan# 973

Delta R.T. 0.06 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

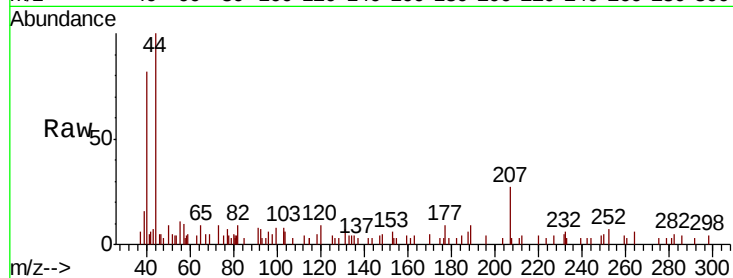
Tot Ion:131 Resp: 255

Ion Ratio Lower Upper

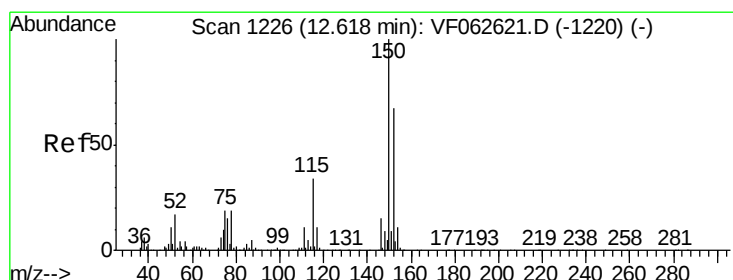
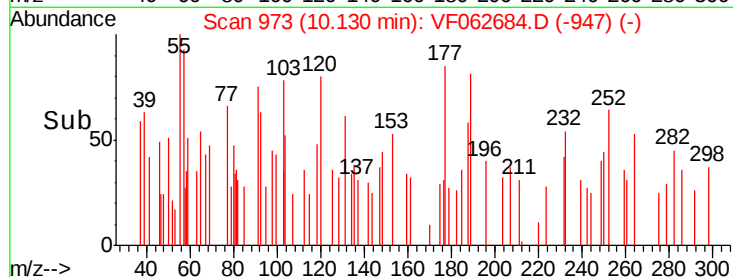
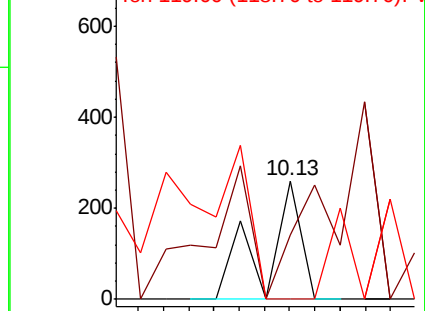
131 100

133 54.2 48.5 145.5

119 0.0 36.8 110.4#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

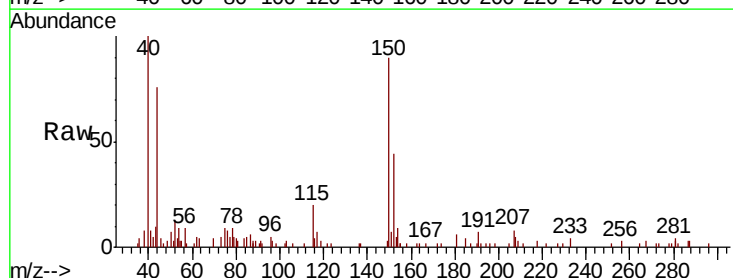
Tgt Ion:152 Resp: 5882

Ion Ratio Lower Upper

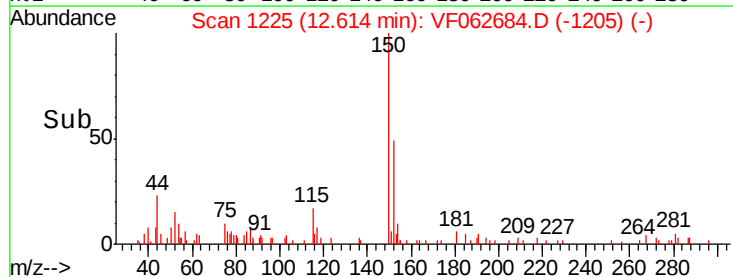
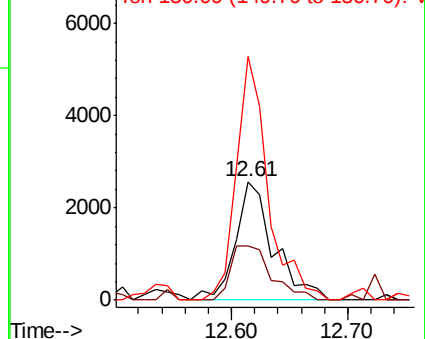
152 100

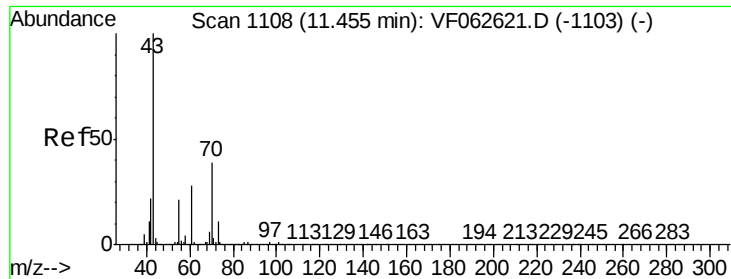
115 45.9 25.2 75.6

150 205.7 0.0 306.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 2.186 ug/l

RT: 11.48 min Scan# 1110

Delta R.T. 0.03 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

Tot Ion: 43 Resp: 788

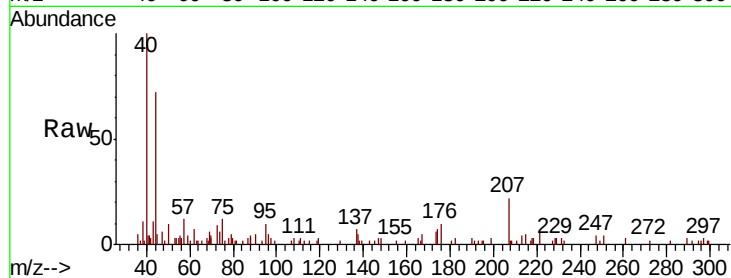
Ion Ratio Lower Upper

43 100

70 68.9 30.9 46.3#

55 68.8 17.0 25.4#

61 0.0 22.6 34.0#

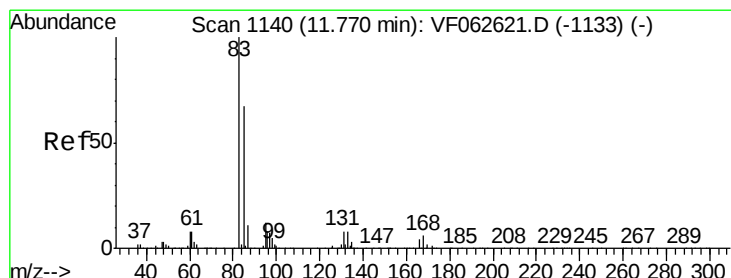
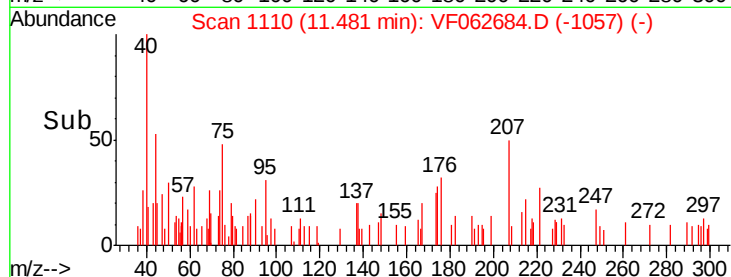
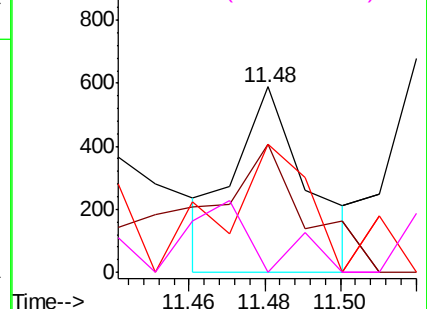


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 4.480 ug/l

RT: 11.76 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

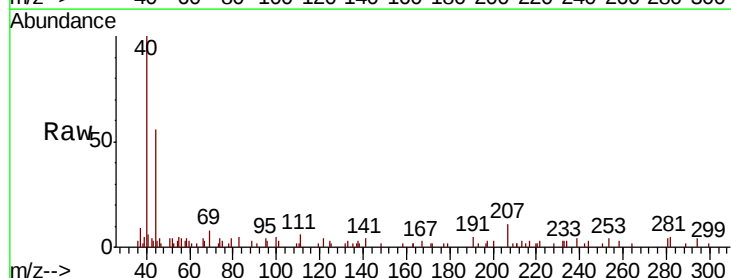
Tgt Ion: 83 Resp: 386

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

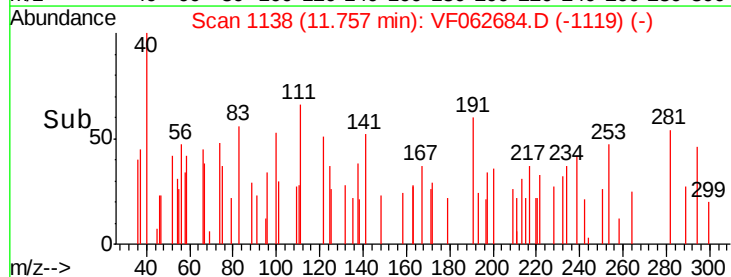
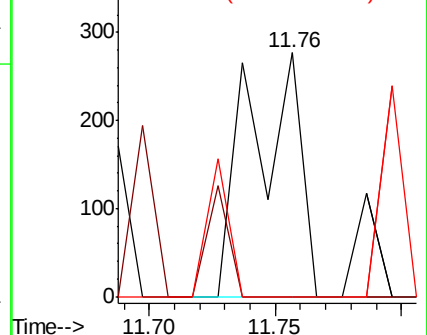
85 0.0 33.5 100.5#

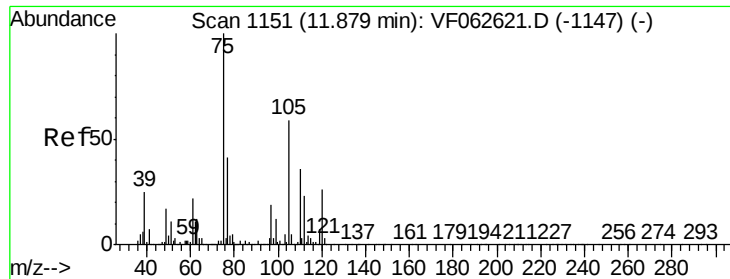


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

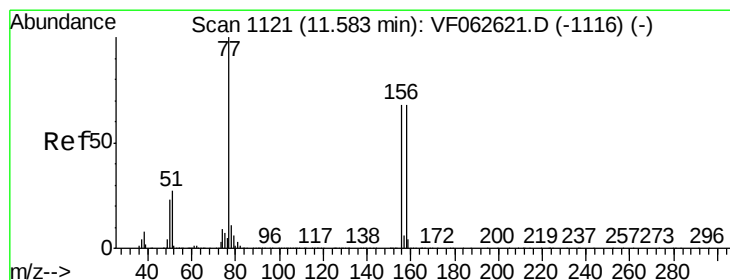
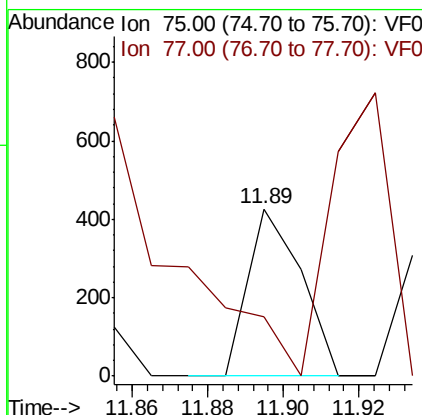
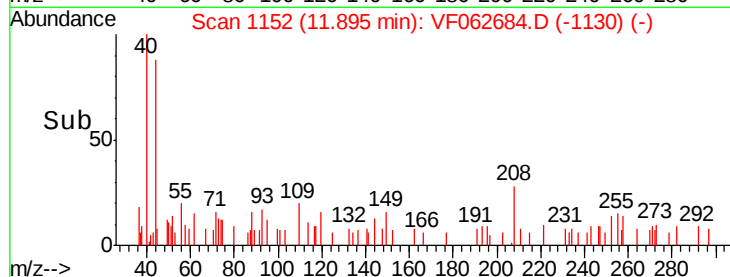
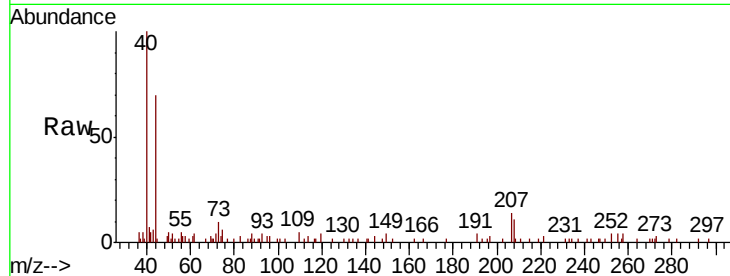




#76
 1,2,3-Trichloropropane
 Concen: 7.278 ug/l
 RT: 11.89 min Scan# 1152
 Delta R.T. 0.02 min
 Lab File: VF062684.D
 Acq: 21 May 2019 15:47

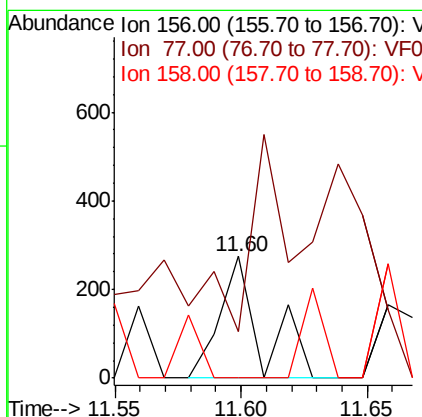
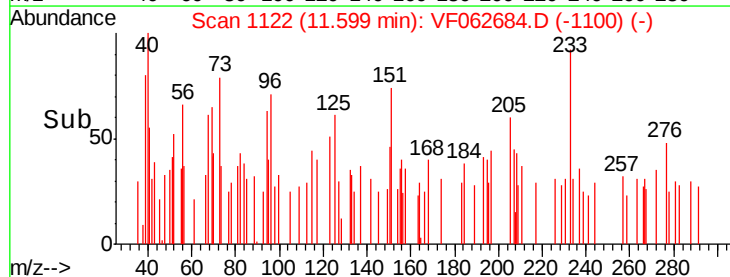
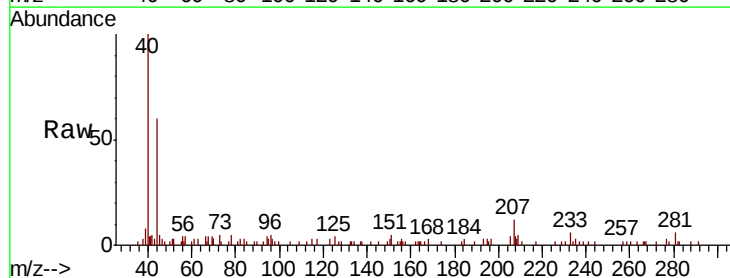
Instrument :
 MSVOA_F
 ClientSampleId :
 DB-3-4FTRE

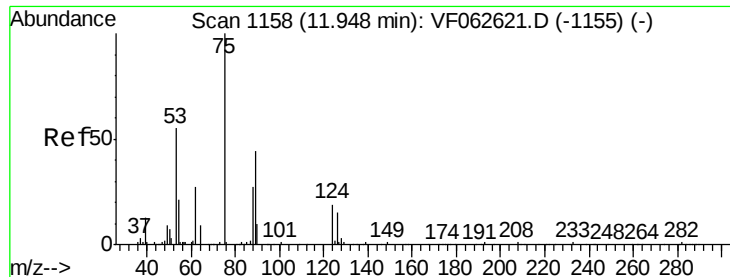
Tot Ion: 75 Resp: 412
 Ion Ratio Lower Upper
 75 100
 77 35.4 20.6 61.8



#77
 Bromobenzene
 Concen: 3.054 ug/l
 RT: 11.60 min Scan# 1122
 Delta R.T. 0.02 min
 Lab File: VF062684.D
 Acq: 21 May 2019 15:47

Tgt Ion: 156 Resp: 320
 Ion Ratio Lower Upper
 156 100
 77 38.5 73.6 220.8#
 158 0.0 49.6 148.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 20.745 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. -0.00 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

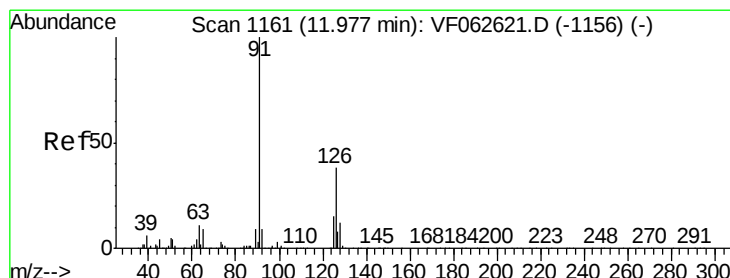
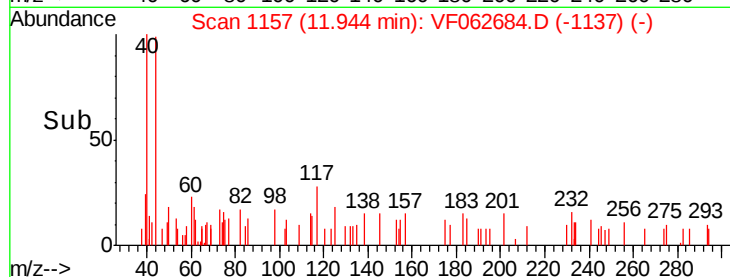
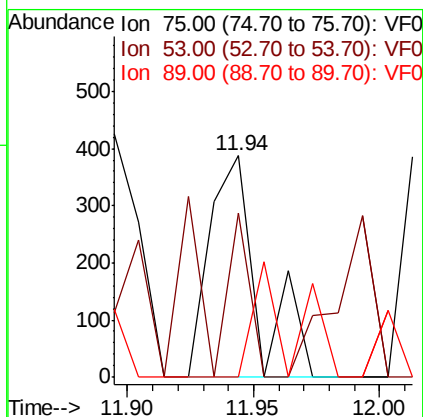
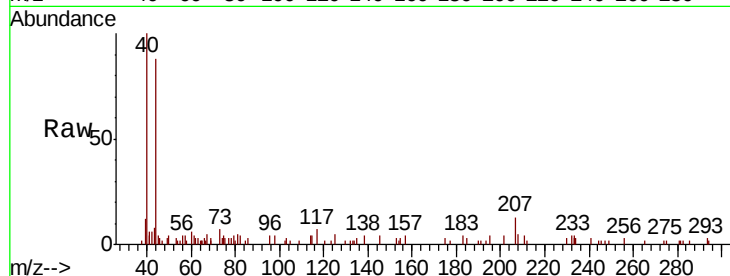
Tot Ion: 75 Resp: 522

Ion Ratio Lower Upper

75 100

53 74.4 46.9 70.3#

89 0.0 36.4 54.6#



#82

4-Chlorotoluene

Concen: 3.163 ug/l

RT: 12.03 min Scan# 1166

Delta R.T. 0.06 min

Lab File: VF062684.D

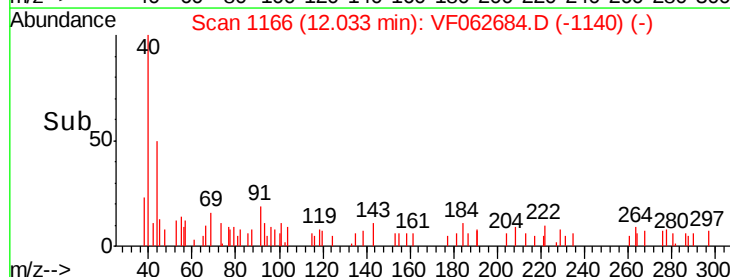
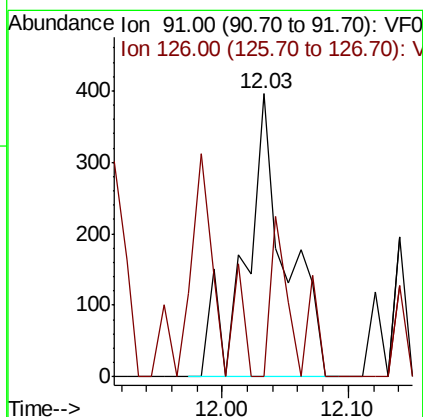
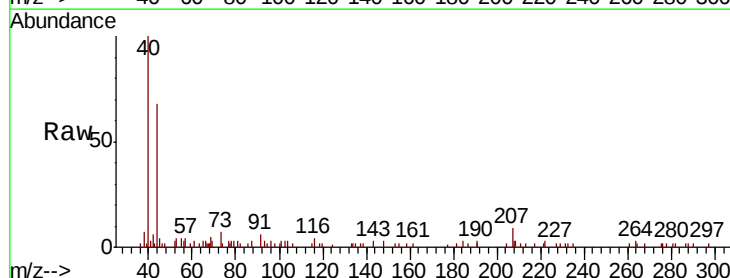
Acq: 21 May 2019 15:47

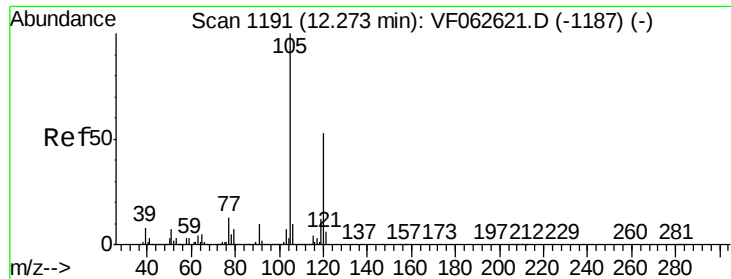
Tgt Ion: 91 Resp: 877

Ion Ratio Lower Upper

91 100

126 0.0 19.1 57.1#

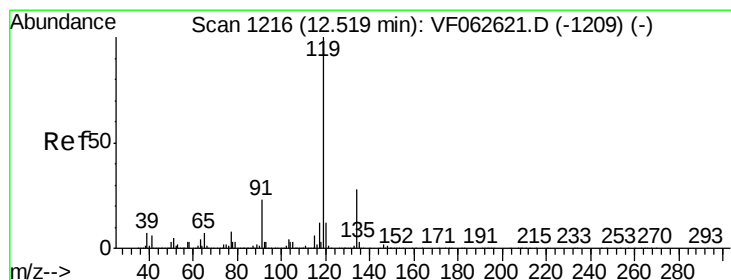
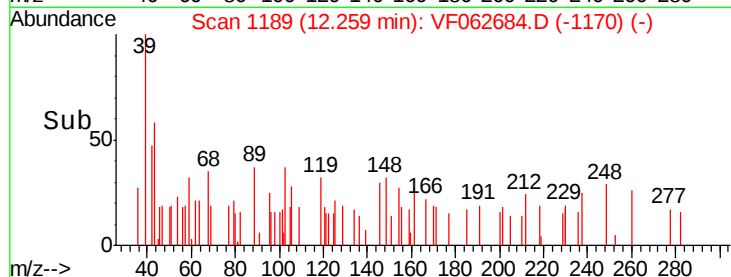
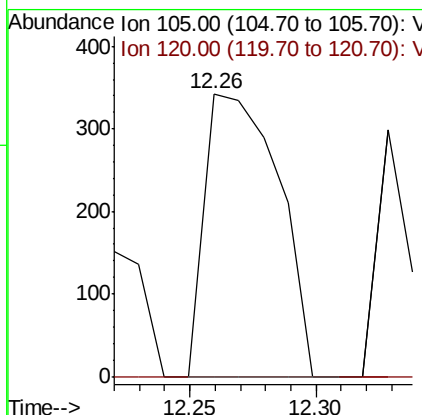
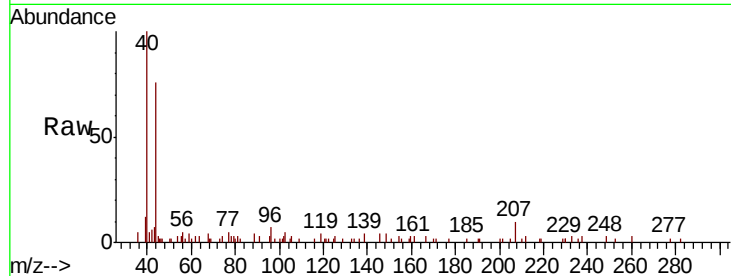




#84
 1,2,4-Trimethylbenzene
 Concen: 2.130 ug/l
 RT: 12.26 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: VF062684.D
 Acq: 21 May 2019 15:47

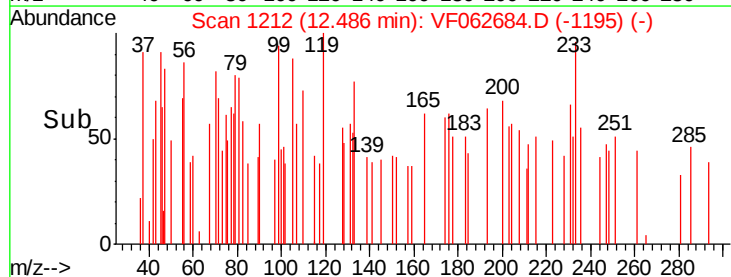
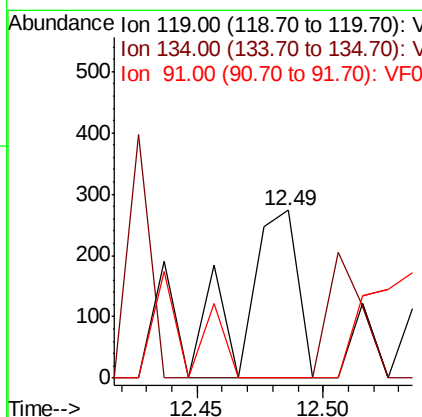
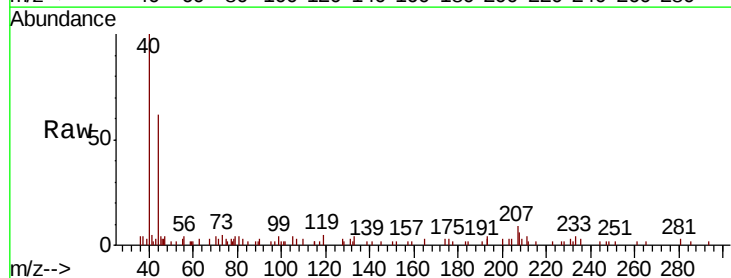
Instrument :
 MSVOA_F
 ClientSampleId :
 DB-3-4FTRE

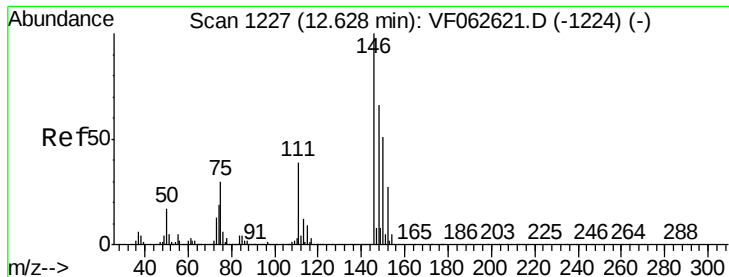
Tot Ion:105 Resp: 697
 Ion Ratio Lower Upper
 105 100
 120 0.0 26.7 80.1#



#86
 p-Isopropyltoluene
 Concen: 1.078 ug/l
 RT: 12.49 min Scan# 1212
 Delta R.T. -0.03 min
 Lab File: VF062684.D
 Acq: 21 May 2019 15:47

Tgt Ion:119 Resp: 418
 Ion Ratio Lower Upper
 119 100
 134 0.0 14.1 42.3#
 91 0.0 11.4 34.2#





#88

1,4-Dichlorobenzene

Concen: 1.551 ug/l

RT: 12.74 min Scan# 1238

Delta R.T. 0.11 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleID :

DB-3-4FTRE

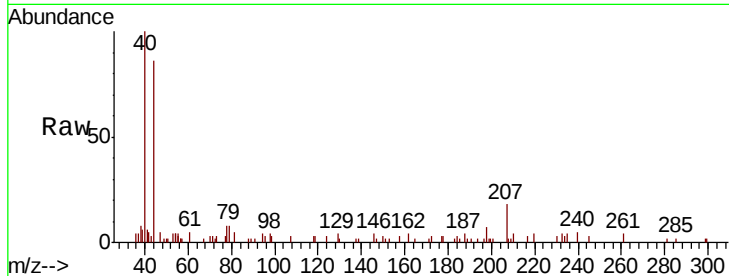
Tot Ion:146 Resp: 276

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.2#

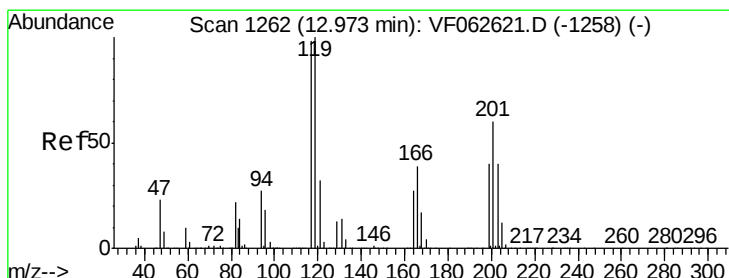
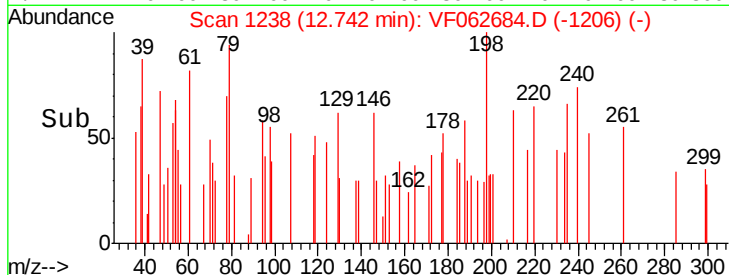
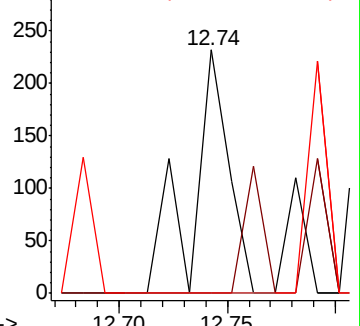
148 0.0 33.2 99.6#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#90

Hexachloroethane

Concen: 1.977 ug/l

RT: 12.95 min Scan# 1259

Delta R.T. -0.02 min

Lab File: VF062684.D

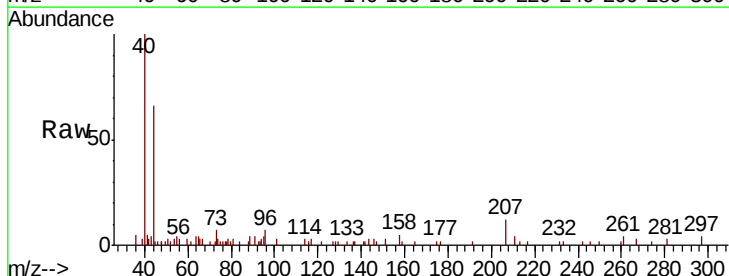
Acq: 21 May 2019 15:47

Tgt Ion:117 Resp: 184

Ion Ratio Lower Upper

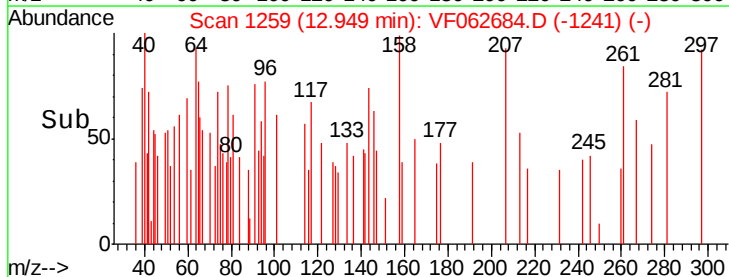
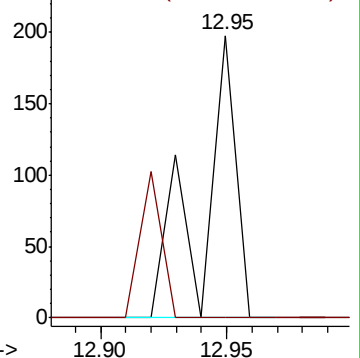
117 100

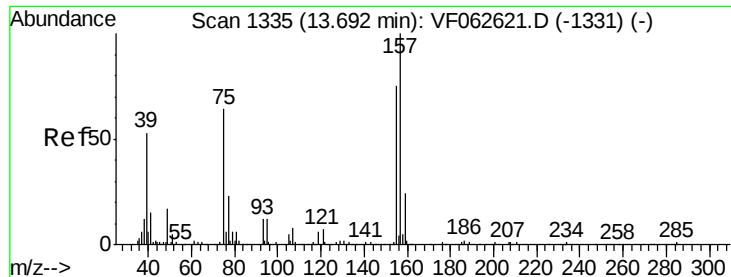
201 0.0 30.7 92.1#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 10.119 ug/l

RT: 13.68 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VF062684.D

Acq: 21 May 2019 15:47

Instrument :

MSVOA_F

ClientSampleId :

DB-3-4FTRE

Tot Ion: 75 Resp: 104

Ion Ratio Lower Upper

75 100

155 58.5 58.1 174.3

157 0.0 77.8 233.4#

