

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061081.D
 Acq On : 19 Dec 2018 13:21
 Operator : VA/AP
 Sample : J6386-20
 Misc : 6.37g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:22:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	2883	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	3704	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	2143	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	344	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	1121	30.23	ug/l	0.00
Spiked Amount			Recovery	=	60.46%	
35) Dibromofluoromethane	4.11	113	1062	35.79	ug/l	0.00
Spiked Amount			Recovery	=	71.58%	
50) Toluene-d8	7.56	98	3172	37.72	ug/l	0.00
Spiked Amount			Recovery	=	75.44%	
62) 4-Bromofluorobenzene	11.41	95	637	16.43	ug/l	0.00
Spiked Amount			Recovery	=	32.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.11	50	91	2.479	ug/l #	1
4) Vinyl Chloride	1.20	62	64	1.879	ug/l #	37
5) Bromomethane	1.32	94	687	29.085	ug/l #	3
6) Chloroethane	1.32	64	376	23.962	ug/l #	1
7) Trichlorofluoromethane	1.43	101	69	1.061	ug/l #	19
8) Diethyl Ether	1.54	74	61	6.851	ug/l	46
9) 1,1,2-Trichlorotrifluoroet	1.77	101	74	2.195	ug/l #	21
10) Methyl Iodide	1.90	142	74	1.392	ug/l #	24
11) Tert butyl alcohol	2.61	59	96	64.156	ug/l #	1
12) 1,1-Dichloroethene	1.79	96	280	11.018	ug/l #	1
13) Acrolein	1.97	56	131	121.156	ug/l	99
14) Allyl chloride	2.11	41	317	11.986	ug/l #	82
15) Acrylonitrile	2.93	53	339	97.973	ug/l #	30
16) Acetone	2.35	43	404	54.501	ug/l	100
18) Methyl Acetate	2.50	43	597	38.927	ug/l	99
19) Methyl tert-butyl Ether	2.40	73	137	2.429	ug/l #	59
20) Methylene Chloride	2.22	84	148	1.929	ug/l #	1
21) trans-1,2-Dichloroethene	2.36	96	166	6.107	ug/l #	1
22) Diisopropyl ether	2.81	45	534	6.062	ug/l #	1
23) Vinyl Acetate	3.18	43	642	15.797	ug/l #	78
24) 1,1-Dichloroethane	2.85	63	265	5.077	ug/l #	88
25) 2-Butanone	4.33	43	126	10.481	ug/l #	57
26) 2,2-Dichloropropane	3.45	77	76	2.537	ug/l #	62
27) cis-1,2-Dichloroethene	3.58	96	62	1.490	ug/l	1
29) Tetrahydrofuran	4.05	42	308	62.946	ug/l #	37
31) Cyclohexane	3.68	56	81	1.496	ug/l #	15
36) 1,1-Dichloropropene	4.25	75	63	1.409	ug/l #	43
37) Ethyl Acetate	4.12	43	230	11.556	ug/l #	21
40) Benzene	4.71	78	162	1.685	ug/l #	49
41) Methacrylonitrile	4.73	41	369	39.080	ug/l #	27
42) 1,2-Dichloroethane	4.86	62	72	1.971	ug/l	77
43) Isopropyl Acetate	6.96	43	192	8.894	ug/l #	45
44) Trichloroethene	5.40	130	65	2.144	ug/l	1
48) Methyl methacrylate	6.74	41	107	7.100	ug/l #	19

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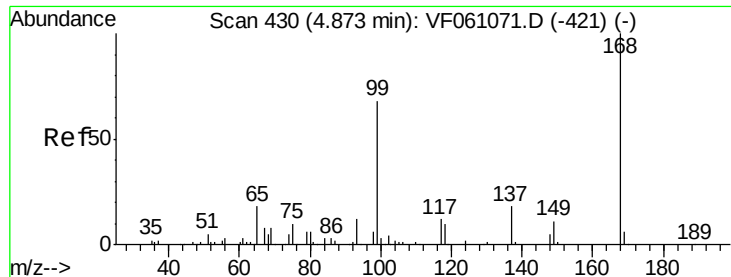
Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:22:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

51) 4-Methyl-2-Pentanone	8.28	43	566	38.229	ug/l #	38
53) t-1,3-Dichloropropene	8.20	75	76	2.137	ug/l #	42
56) Ethyl methacrylate	8.70	69	62	3.003	ug/l #	38
59) 2-Hexanone	9.51	43	711	66.405	ug/l	84
67) Ethyl Benzene	9.91	91	229	2.839	ug/l #	47
68) m/p-Xylenes	10.14	106	65	2.290	ug/l #	35
73) Isopropylbenzene	11.23	105	278	9.378	ug/l #	49
74) N-amyl acetate	11.36	43	354	53.787	ug/l #	33
75) 1,1,2,2-Tetrachloroethane	11.62	83	61	12.398	ug/l #	23
77) Bromobenzene	11.53	156	60	9.402	ug/l #	1
78) n-propylbenzene	11.59	91	177	4.234	ug/l #	55
79) 2-Chlorotoluene	11.71	91	125	6.147	ug/l #	42
82) 4-Chlorotoluene	11.92	91	79	3.755	ug/l #	43
83) tert-Butylbenzene	12.13	119	68	2.707	ug/l #	29
84) 1,2,4-Trimethylbenzene	12.27	105	64	2.629	ug/l #	29
85) sec-Butylbenzene	12.29	105	60	1.830	ug/l #	58
86) p-Isopropyltoluene	12.45	119	79	2.903	ug/l #	50
87) 1,3-Dichlorobenzene	12.49	146	143	9.359	ug/l #	25
88) 1,4-Dichlorobenzene	12.49	146	143	12.204	ug/l #	25
89) n-Butylbenzene	12.86	91	89	2.931	ug/l #	26
91) 1,2-Dichlorobenzene	12.94	146	63	5.522	ug/l #	23
93) 1,2,4-Trichlorobenzene	14.17	180	79	9.764	ug/l #	12
95) Naphthalene	14.46	128	344	23.284	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

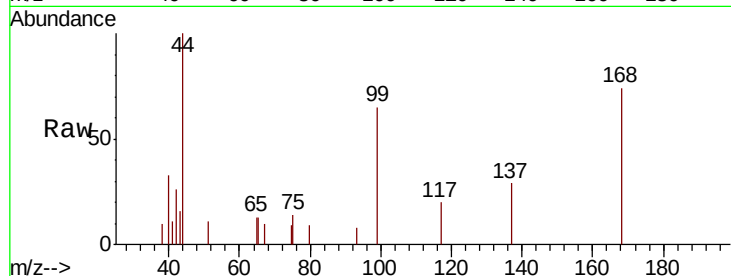
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 2883

Ion Ratio Lower Upper

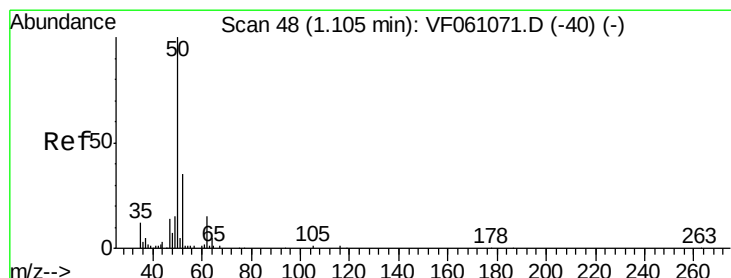
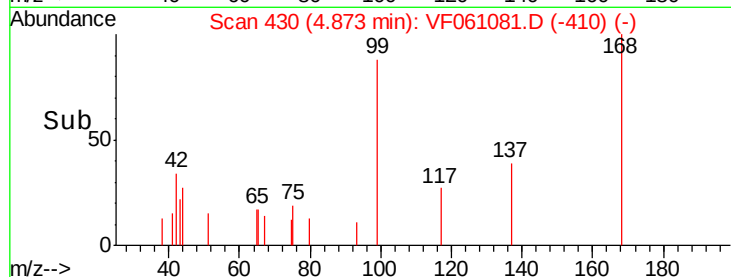
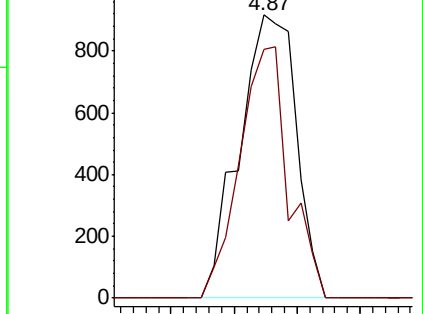
168 100

99 87.9 54.4 81.6#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 2.479 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061081.D

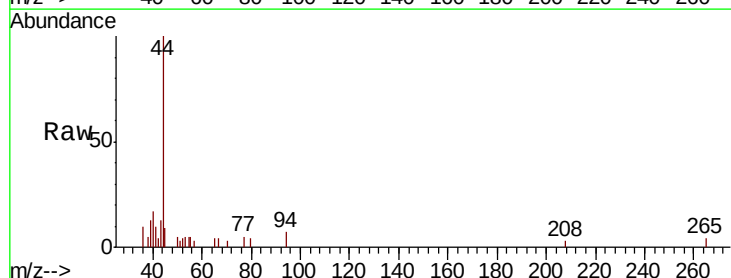
Acq: 19 Dec 2018 13:21

Tgt Ion: 50 Resp: 91

Ion Ratio Lower Upper

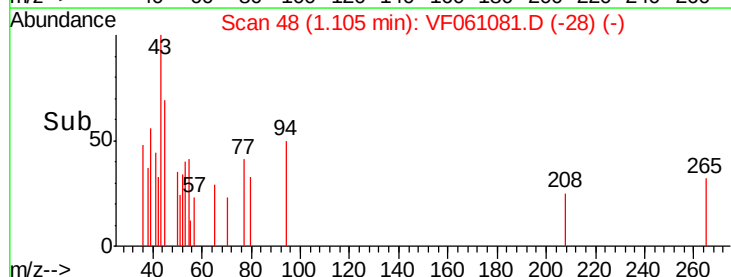
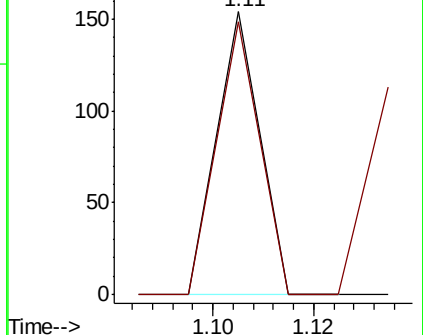
50 100

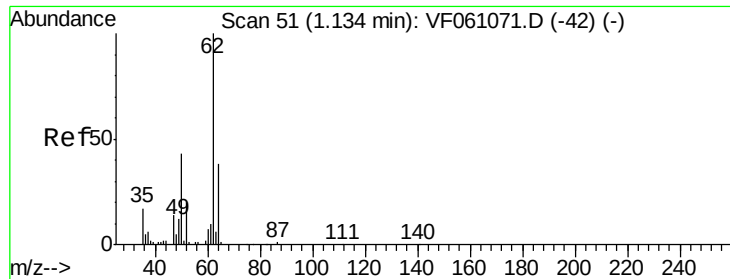
52 96.8 26.3 39.5#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#4

Vinyl Chloride

Concen: 1.879 ug/l

RT: 1.20 min Scan# 58

Delta R.T. 0.07 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

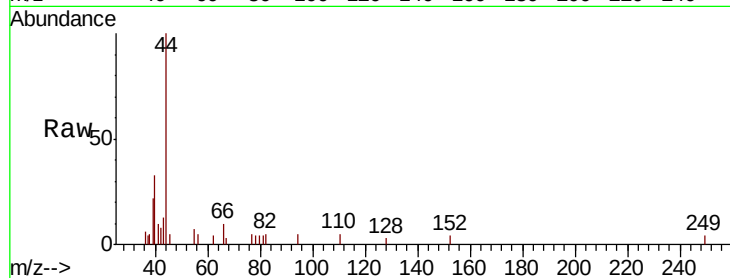
ClientSampled :

Tot Ion: 62 Resp: 64

Ion Ratio Lower Upper

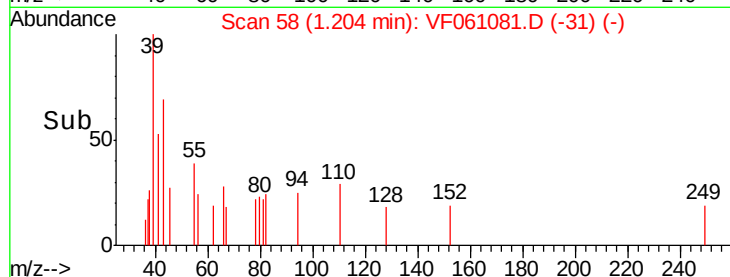
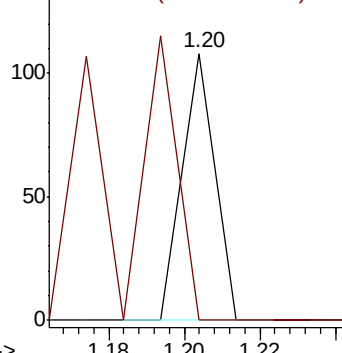
62 100

64 0.0 30.4 45.6#

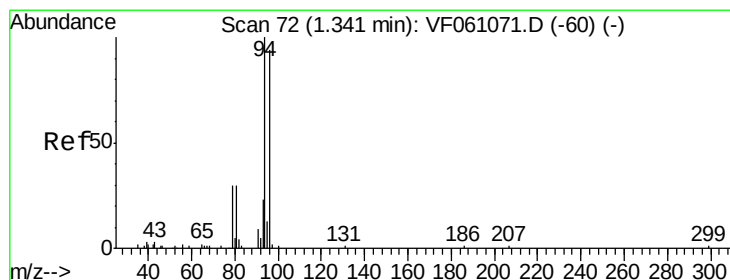


Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0



Time-->



#5

Bromomethane

Concen: 29.085 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF061081.D

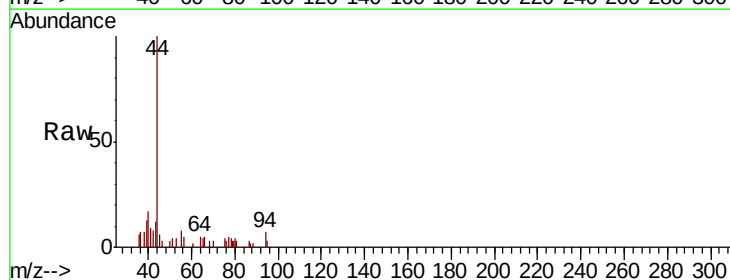
Acq: 19 Dec 2018 13:21

Tgt Ion: 94 Resp: 687

Ion Ratio Lower Upper

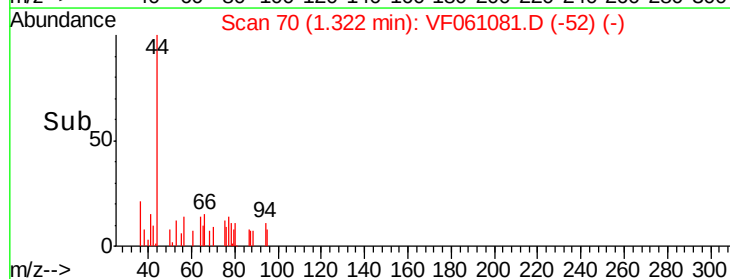
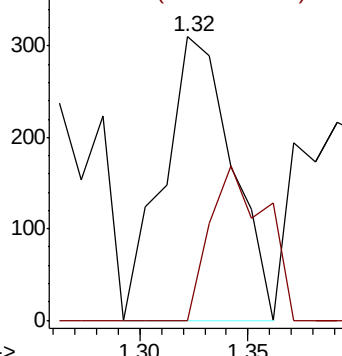
94 100

96 0.0 74.4 111.6#

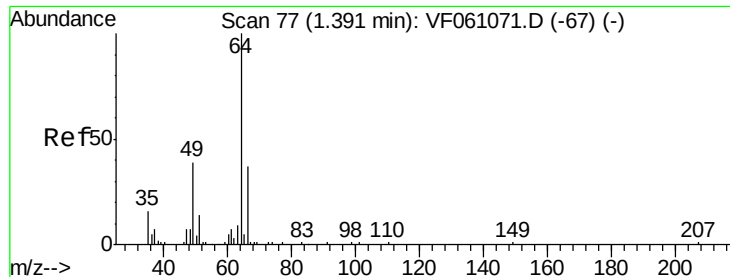


Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



Time-->



#6

Chloroethane

Concen: 23.962 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.07 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

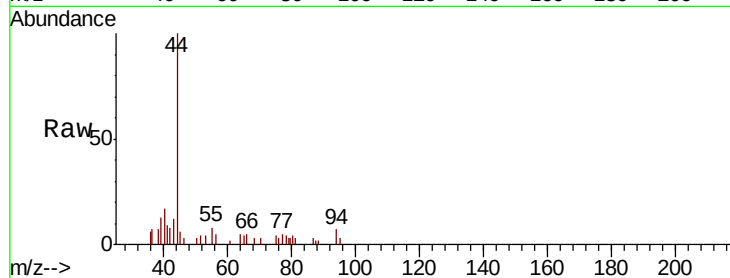
ClientSampleId :

Tot Ion: 64 Resp: 376

Ion Ratio Lower Upper

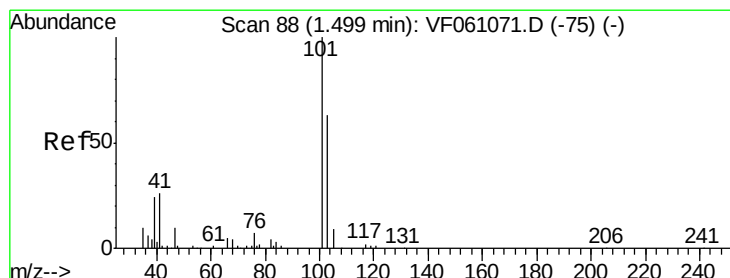
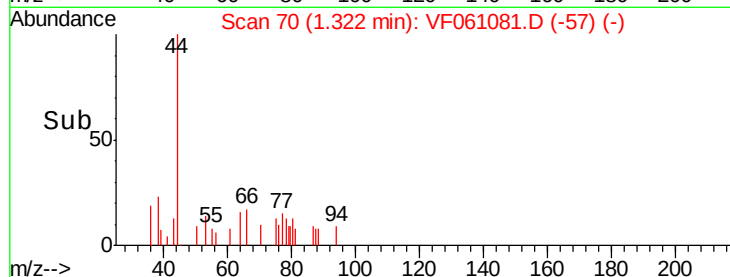
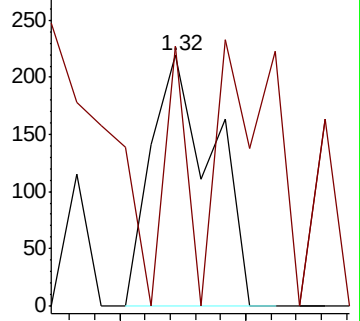
64 100

66 103.7 30.9 46.3#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#7

Trichlorofluoromethane

Concen: 1.061 ug/l

RT: 1.43 min Scan# 81

Delta R.T. -0.07 min

Lab File: VF061081.D

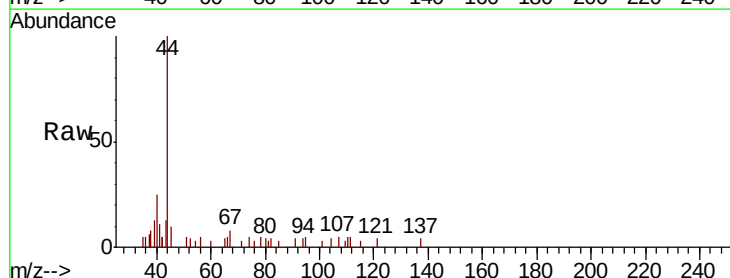
Acq: 19 Dec 2018 13:21

Tgt Ion: 101 Resp: 69

Ion Ratio Lower Upper

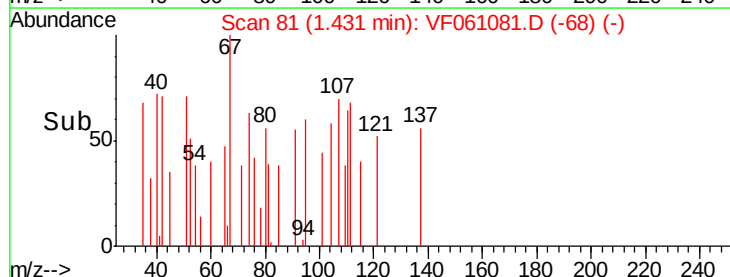
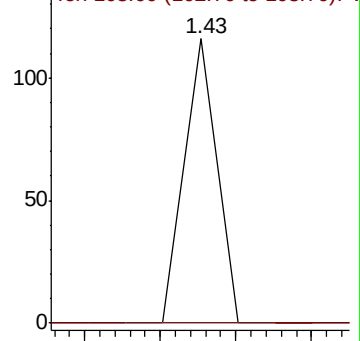
101 100

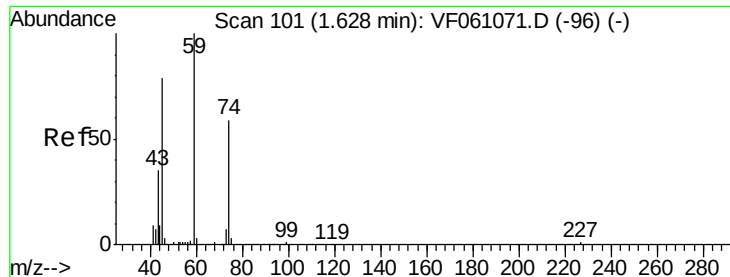
103 0.0 50.7 76.1#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#8

Diethyl Ether

Concen: 6.851 ug/l

RT: 1.54 min Scan# 92

Delta R.T. -0.09 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

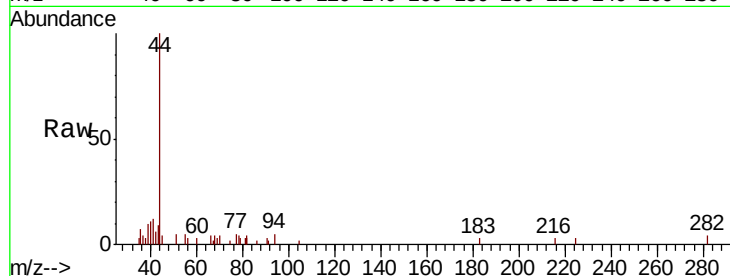
ClientSampleId :

Tot Ion: 74 Resp: 61

Ion Ratio Lower Upper

74 100

45 200.0 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

400

300

200

100

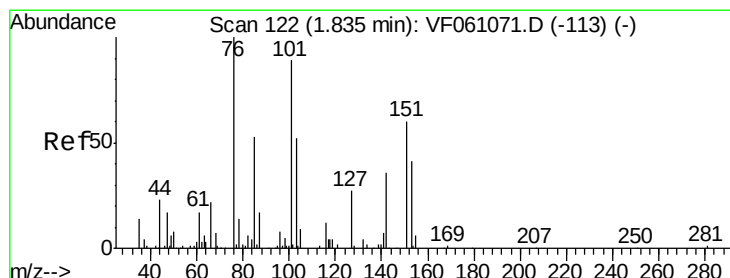
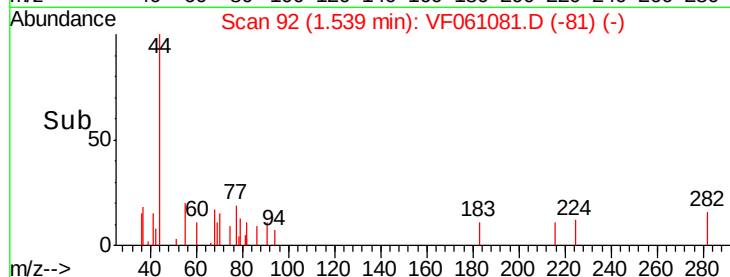
0

1.52

1.54

1.56

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.195 ug/l

RT: 1.77 min Scan# 115

Delta R.T. -0.07 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

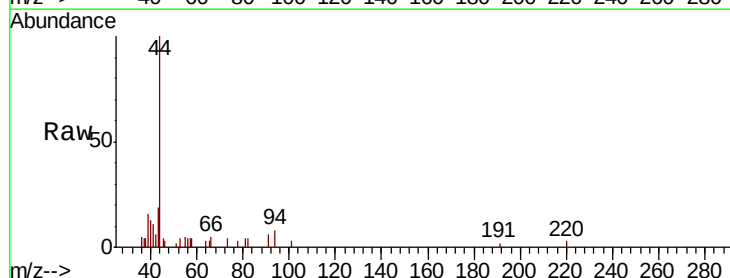
Tgt Ion: 101 Resp: 74

Ion Ratio Lower Upper

101 100

85 0.0 44.5 66.7#

151 0.0 49.9 74.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V

150

100

50

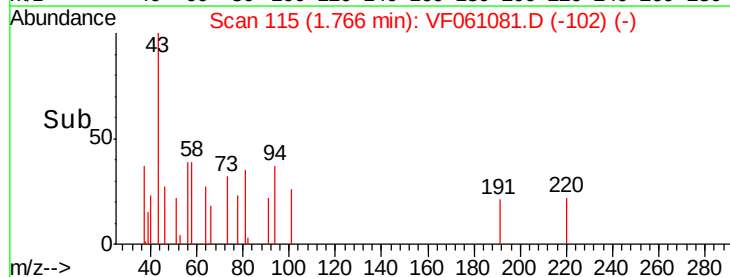
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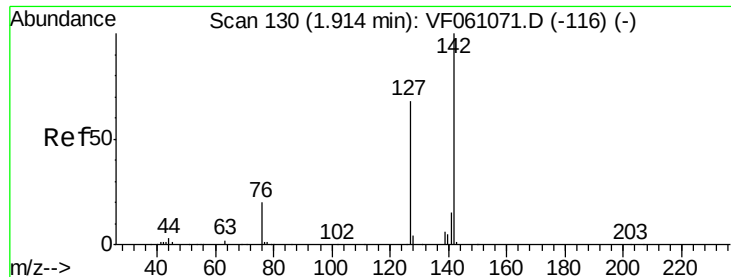
1.76

1.77

1.78

Time-->

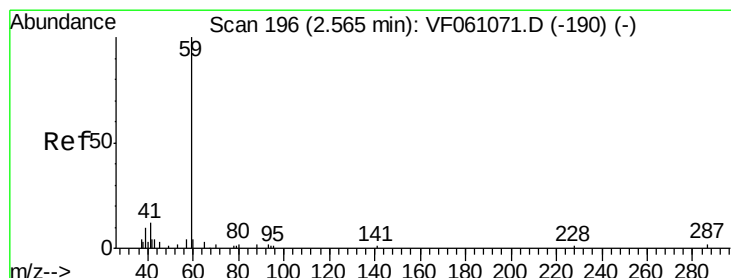
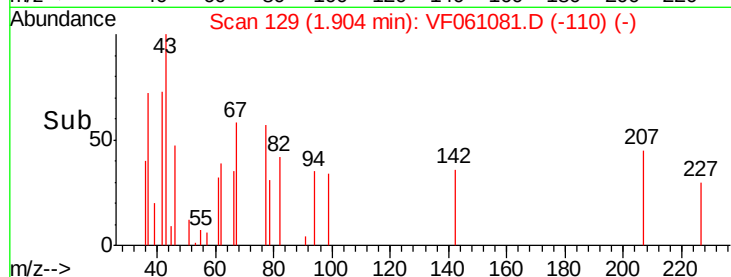
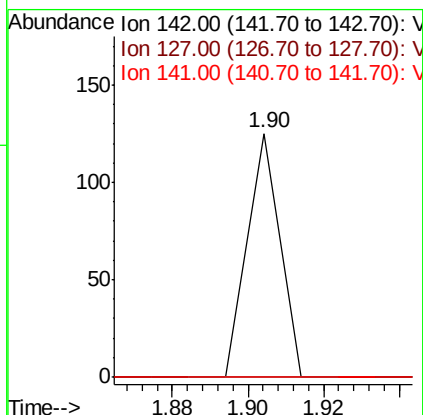
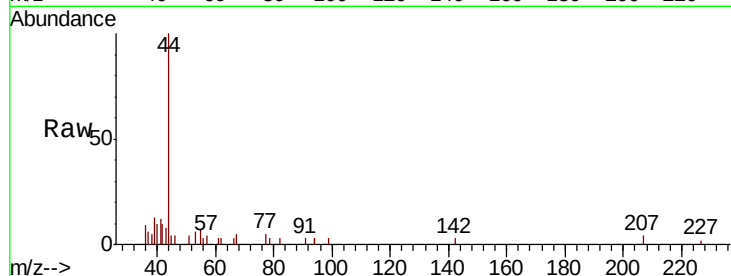




#10
Methyl Iodide
Concen: 1.392 ug/l
RT: 1.90 min Scan# 129
Delta R.T. -0.01 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

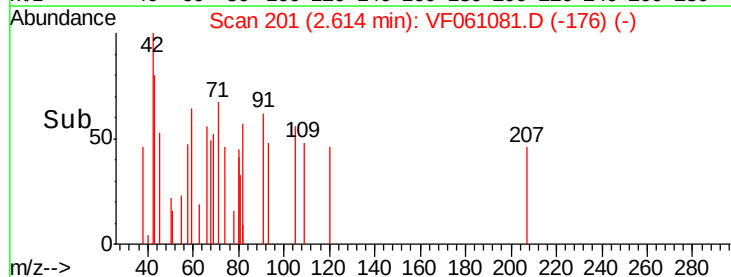
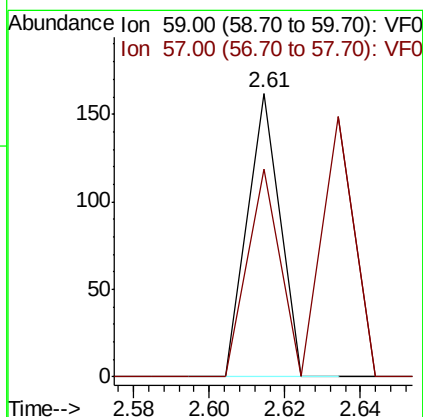
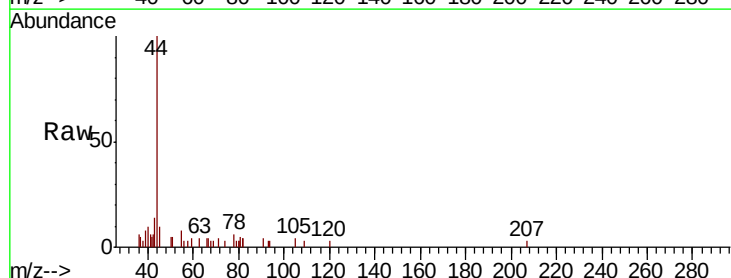
Instrument :
MSVOA_F
ClientSampleId :

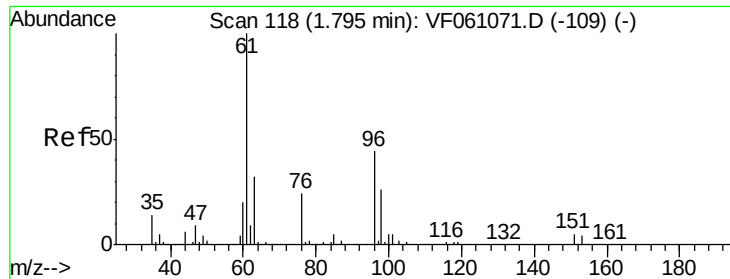
Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	54.7	82.1#
141	0.0	12.2	18.2#



#11
Tert butyl alcohol
Concen: 64.156 ug/l
RT: 2.61 min Scan# 201
Delta R.T. 0.05 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

Tgt Ion	Ratio	Lower	Upper
59	100		
57	73.5	11.5	17.3#

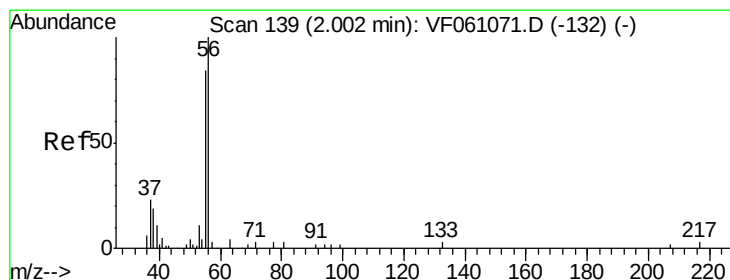
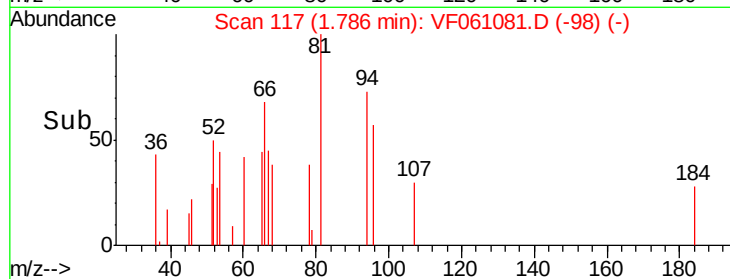
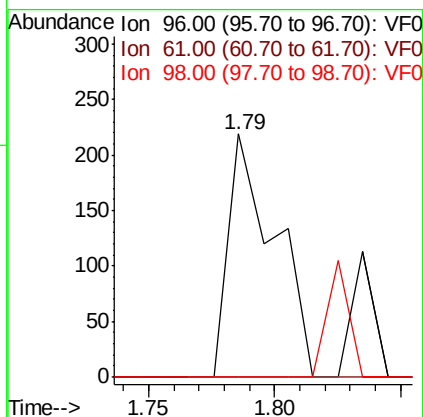
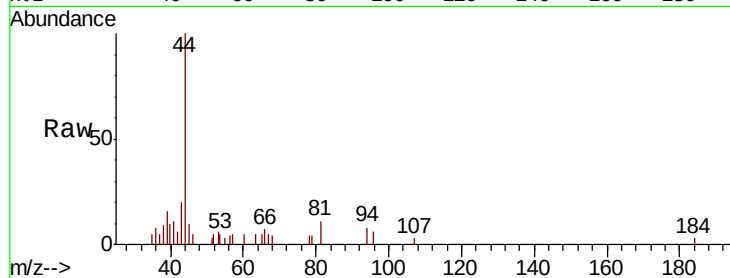




#12
 1,1-Dichloroethene
 Concen: 11.018 ug/l
 RT: 1.79 min Scan# 117
 Delta R.T. -0.01 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

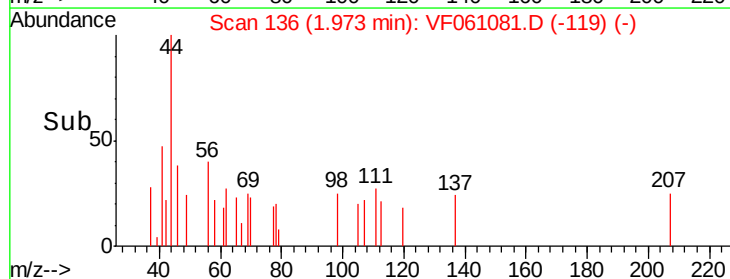
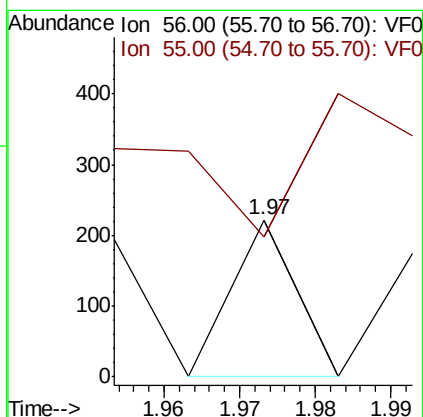
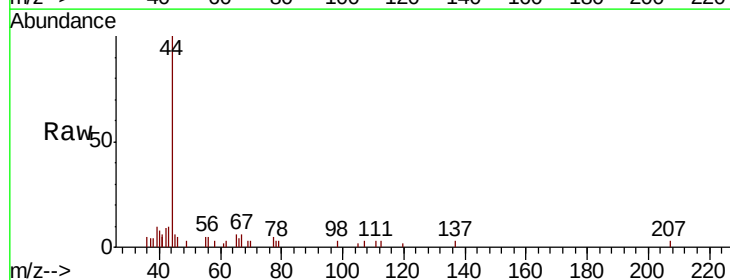
Instrument :
 MSVOA_F
 ClientSampled :

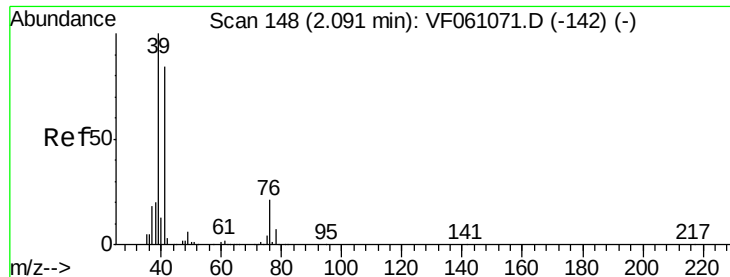
Tot Ion: 96 Resp: 280
 Ion Ratio Lower Upper
 96 100
 61 0.0 182.0 273.0#
 98 0.0 46.5 69.7#



#13
 Acrolein
 Concen: 121.156 ug/l
 RT: 1.97 min Scan# 136
 Delta R.T. -0.03 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

Tgt Ion: 56 Resp: 131
 Ion Ratio Lower Upper
 56 100
 55 88.7 70.2 105.2

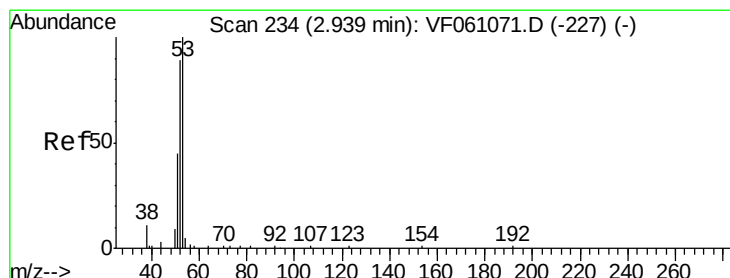
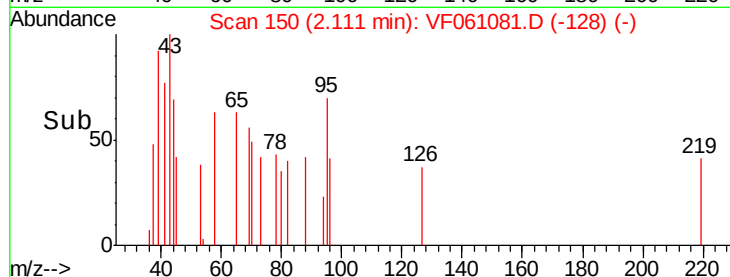
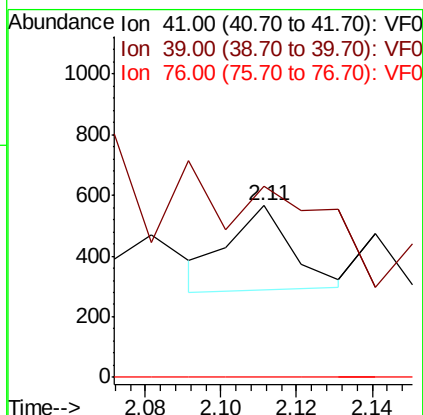
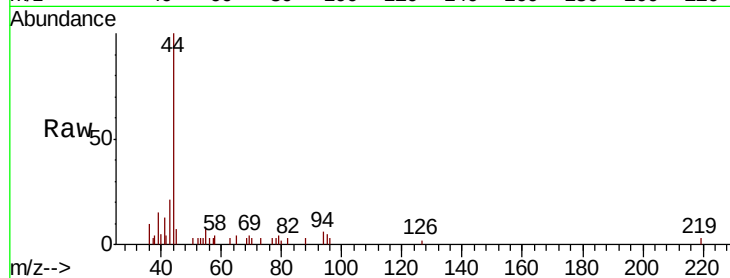




#14
Allvl chloride
Concen: 11.986 ug/l
RT: 2.11 min Scan# 150
Delta R.T. 0.02 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

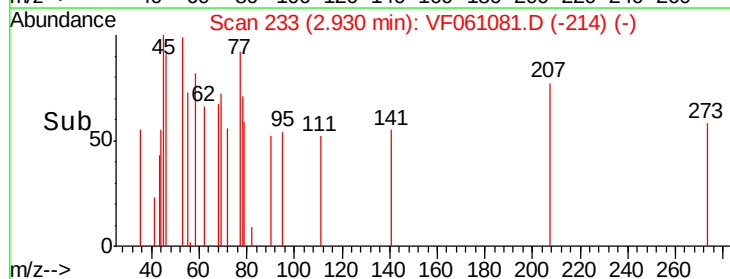
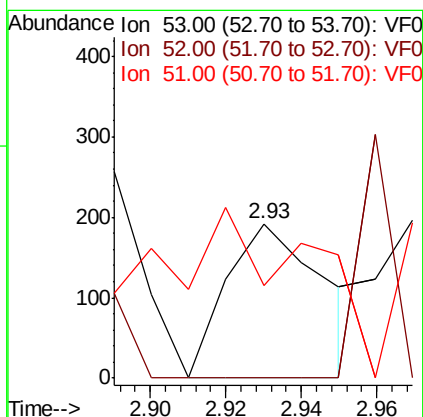
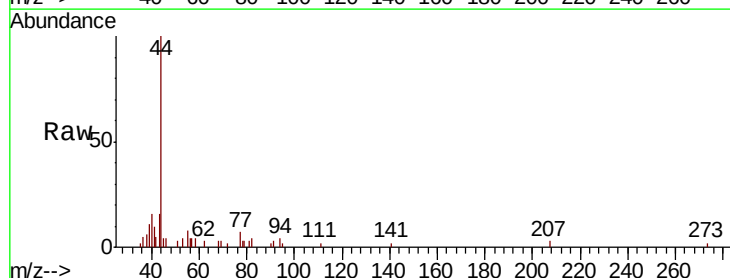
Instrument :
MSVOA_F
ClientSampleId :

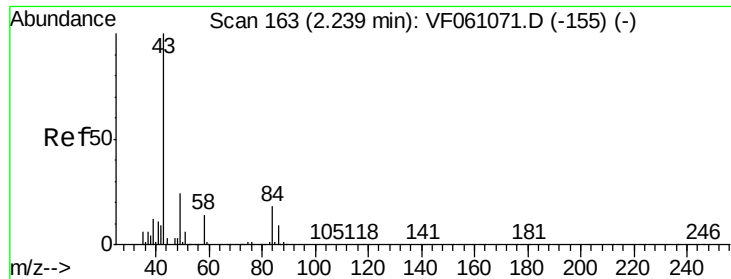
Tot Ion: 41 Resp: 317
Ion Ratio Lower Upper
41 100
39 111.9 96.4 144.6
76 0.0 25.4 38.0#



#15
Acrylonitrile
Concen: 97.973 ug/l
RT: 2.93 min Scan# 233
Delta R.T. -0.01 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

Tgt Ion: 53 Resp: 339
Ion Ratio Lower Upper
53 100
52 0.0 71.3 106.9#
51 60.4 36.8 55.2#





#16

Acetone

Concen: 54.501 ug/l

RT: 2.35 min Scan# 174

Delta R.T. 0.11 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

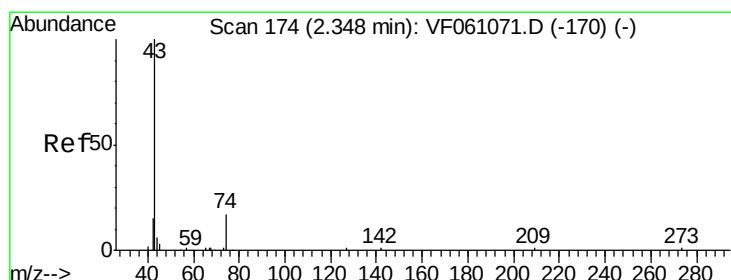
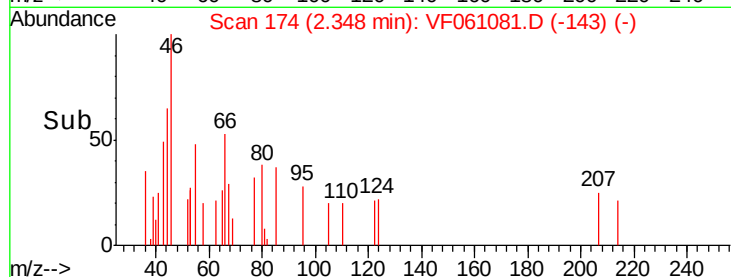
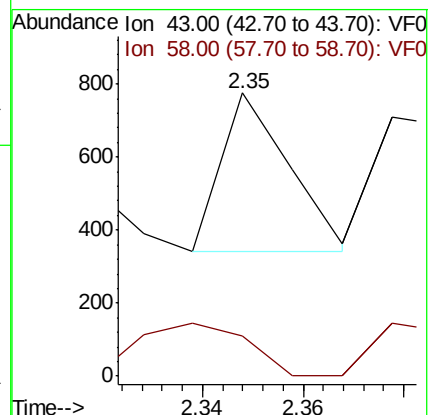
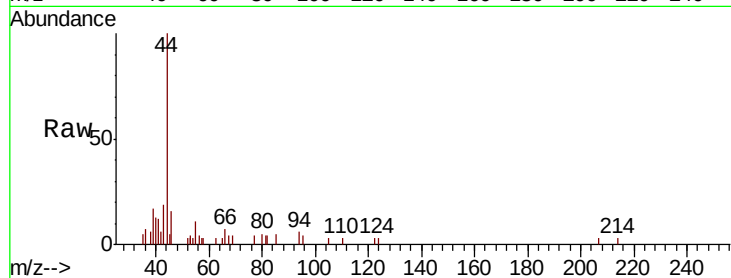
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 404

Ion Ratio Lower Upper

43 100

58 14.1 11.1 16.7



#18

Methyl Acetate

Concen: 38.927 ug/l

RT: 2.50 min Scan# 189

Delta R.T. 0.15 min

Lab File: VF061081.D

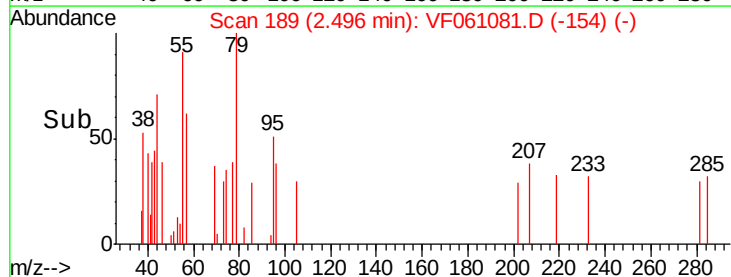
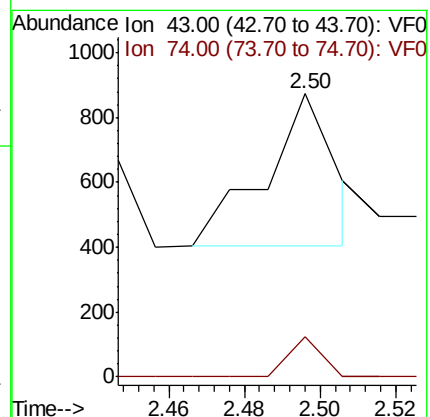
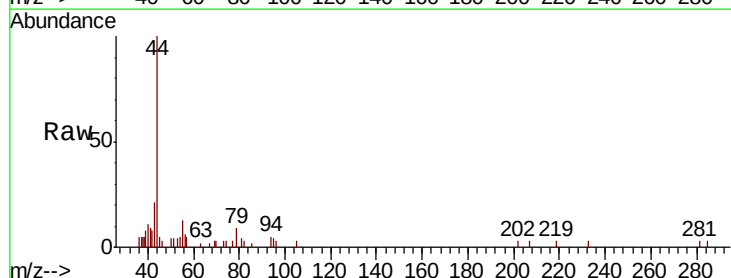
Acq: 19 Dec 2018 13:21

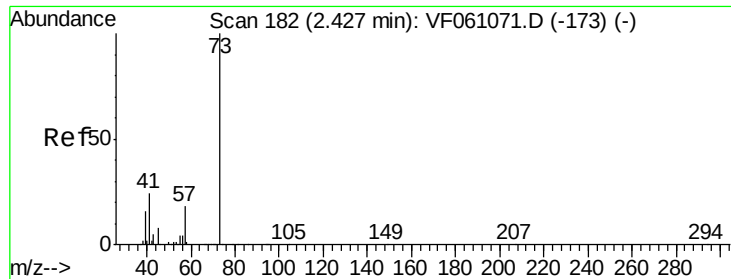
Tgt Ion: 43 Resp: 597

Ion Ratio Lower Upper

43 100

74 14.3 11.0 16.6

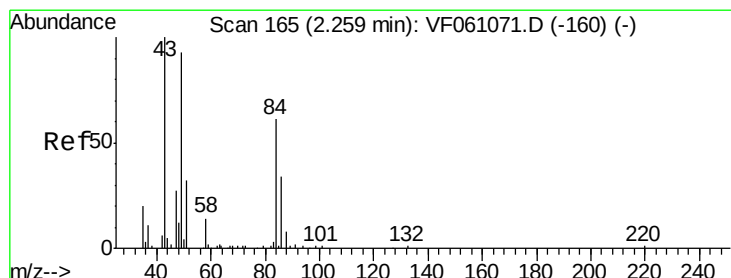
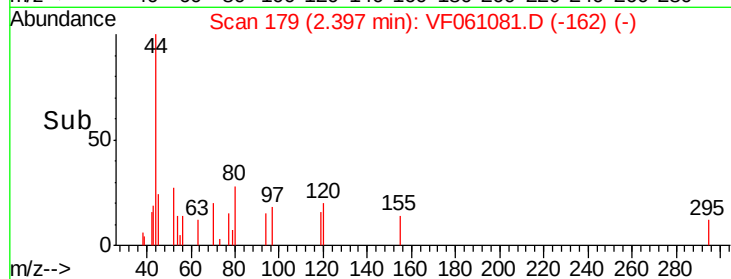
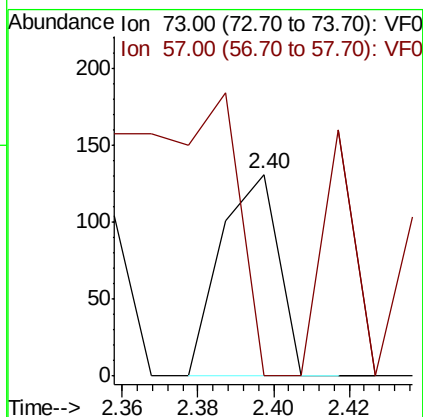
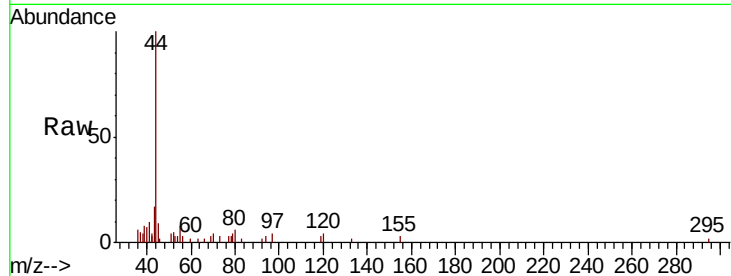




#19
Methyl tert-butyl Ether
Concen: 2.429 ug/l
RT: 2.40 min Scan# 179
Delta R.T. -0.03 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

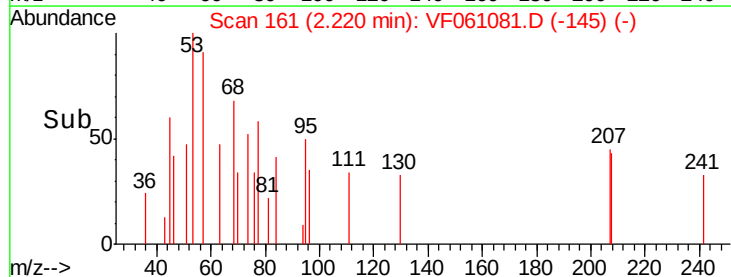
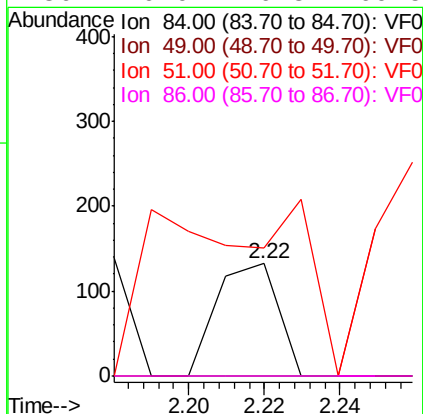
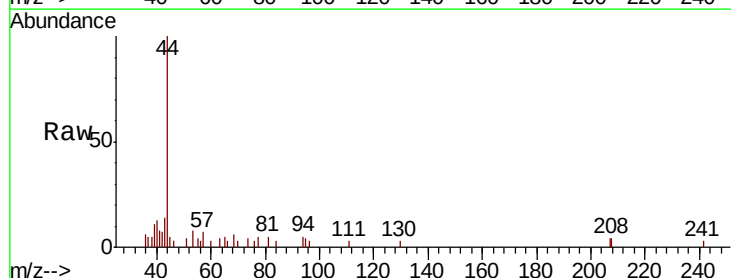
Instrument :
MSVOA_F
ClientSampleId :

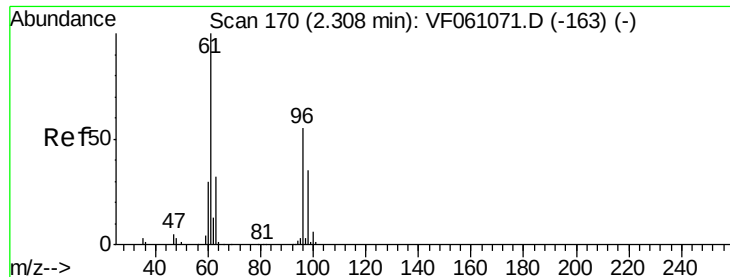
Tot Ion: 73 Resp: 137
Ion Ratio Lower Upper
73 100
57 0.0 14.5 21.7#



#20
Methylene Chloride
Concen: 1.929 ug/l
RT: 2.22 min Scan# 161
Delta R.T. -0.04 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

Tgt Ion: 84 Resp: 148
Ion Ratio Lower Upper
84 100
49 0.0 129.4 194.2#
51 113.6 44.0 66.0#
86 0.0 46.3 69.5#





#21

trans-1,2-Dichloroethene

Concen: 6.107 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.05 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :

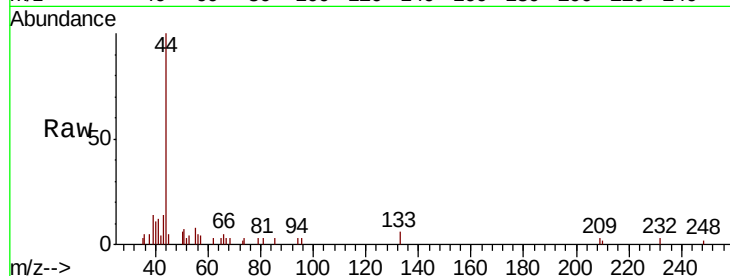
Tot Ion: 96 Resp: 166

Ion Ratio Lower Upper

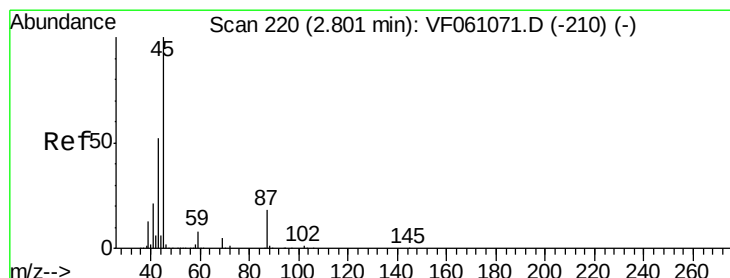
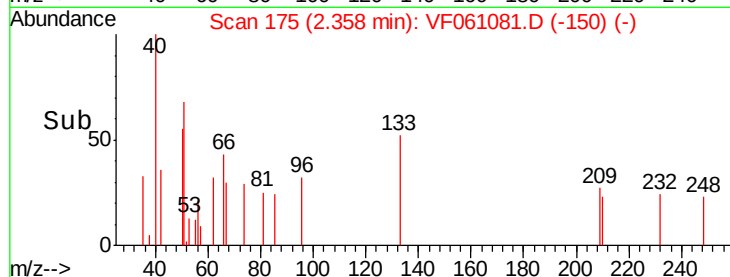
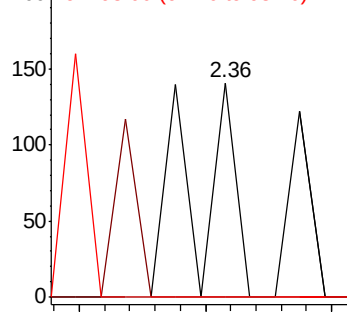
96 100

61 0.0 146.0 219.0#

98 0.0 51.6 77.4#



Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 6.062 ug/l

RT: 2.81 min Scan# 221

Delta R.T. 0.01 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Tgt Ion: 45 Resp: 534

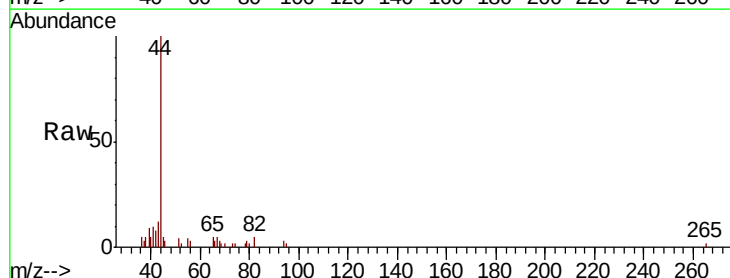
Ion Ratio Lower Upper

45 100

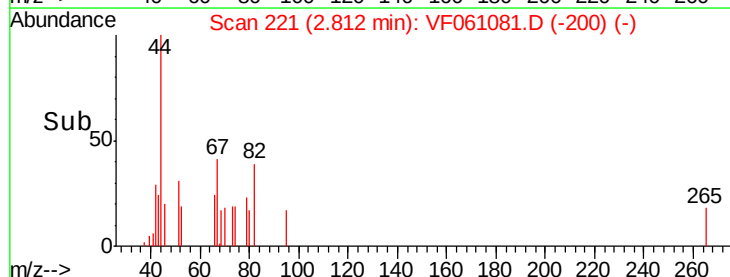
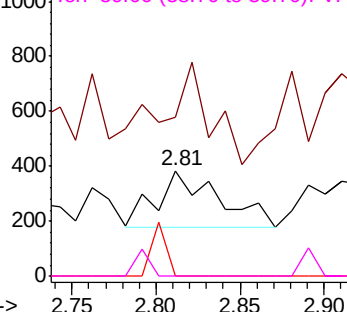
43 151.4 42.2 63.2#

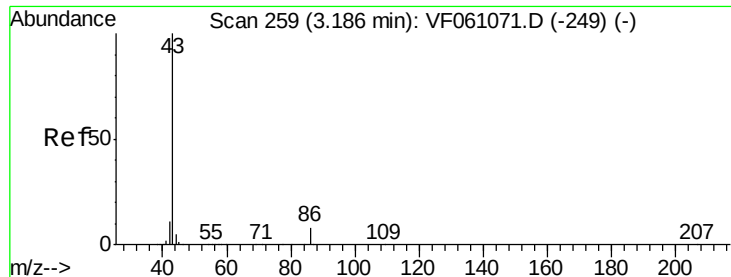
87 0.0 14.6 22.0#

59 0.0 7.0 10.4#



Abundance Ion 45.00 (44.70 to 45.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 87.00 (86.70 to 87.70): VF0
Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 15.797 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

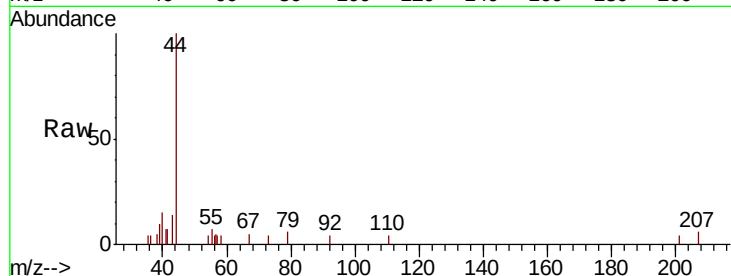
ClientSampled :

Tot Ion: 43 Resp: 642

Ion Ratio Lower Upper

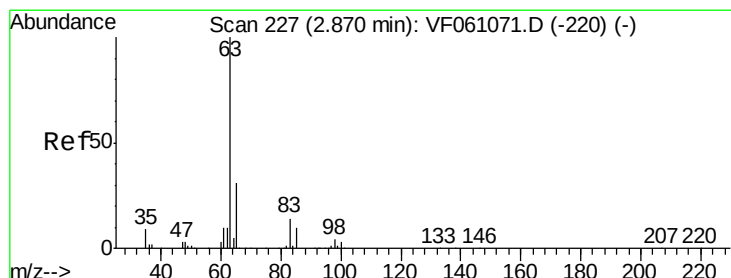
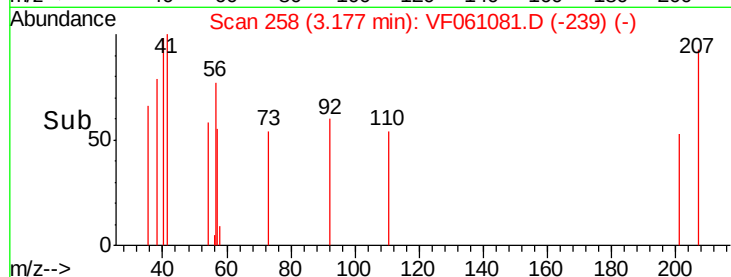
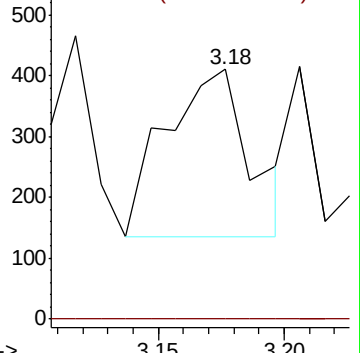
43 100

86 0.0 6.3 9.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 5.077 ug/l

RT: 2.85 min Scan# 225

Delta R.T. -0.02 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

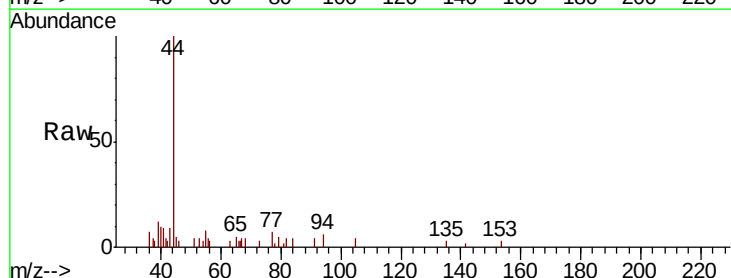
Tgt Ion: 63 Resp: 265

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.5#

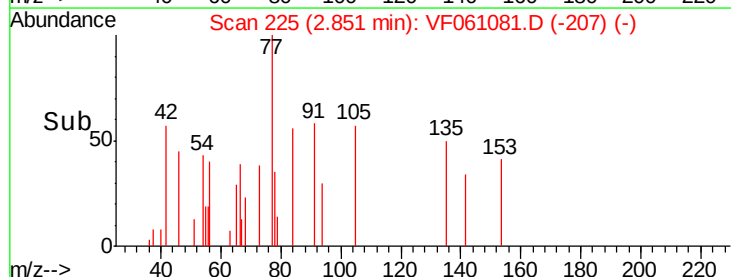
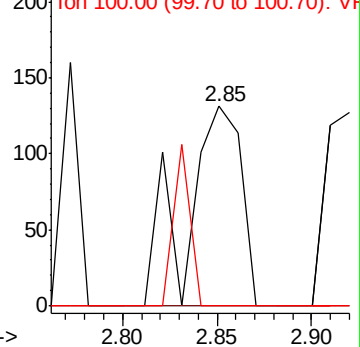
100 0.0 1.7 5.1#

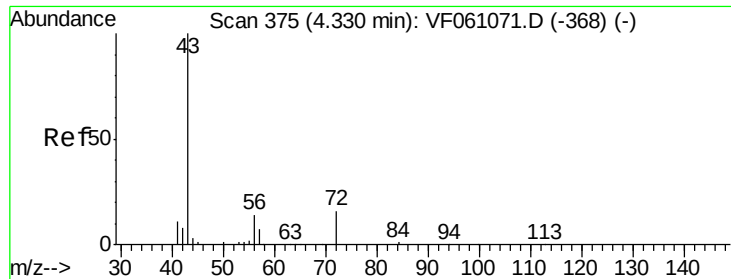


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 10.481 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.00 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

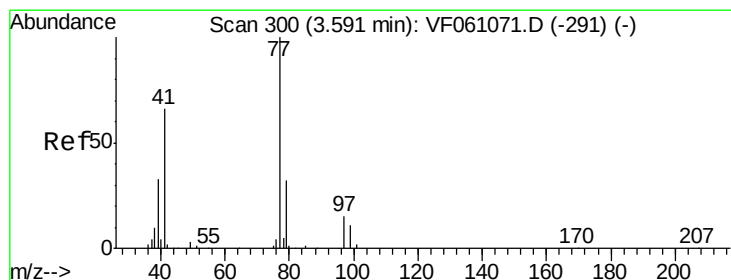
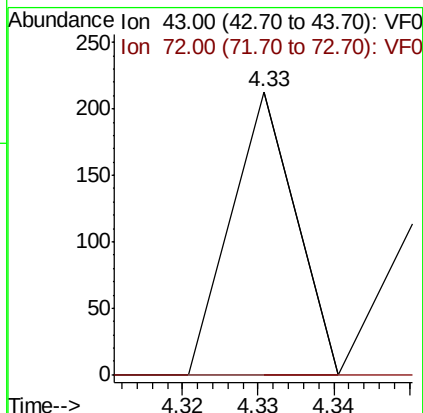
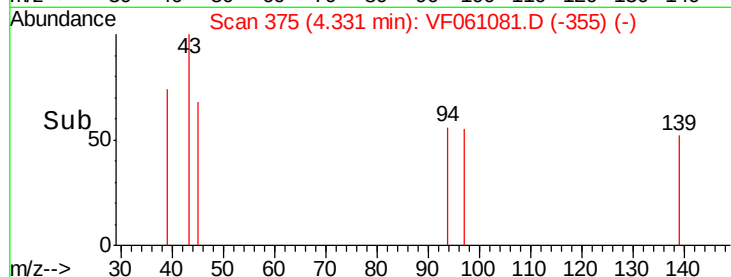
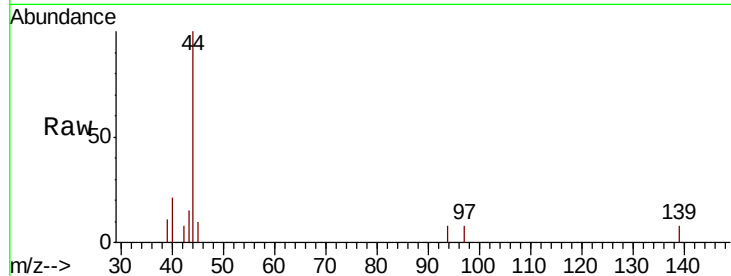
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 126

Ion Ratio Lower Upper

43 100

72 0.0 15.6 23.4#



#26

2,2-Dichloropropane

Concen: 2.537 ug/l

RT: 3.45 min Scan# 286

Delta R.T. -0.14 min

Lab File: VF061081.D

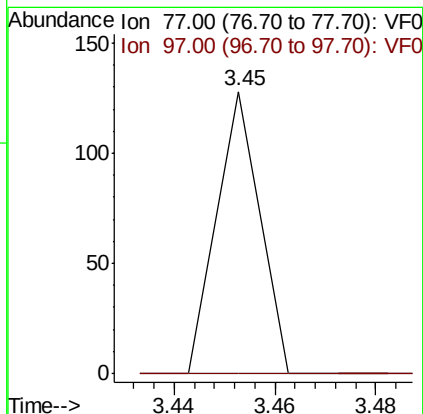
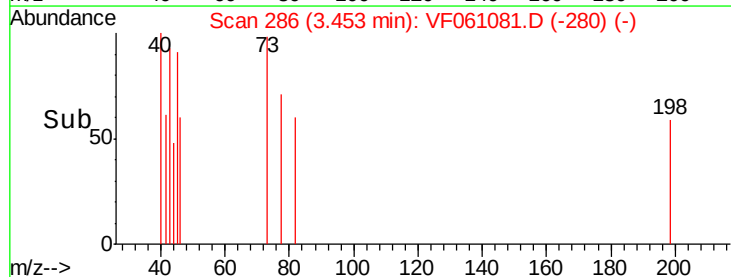
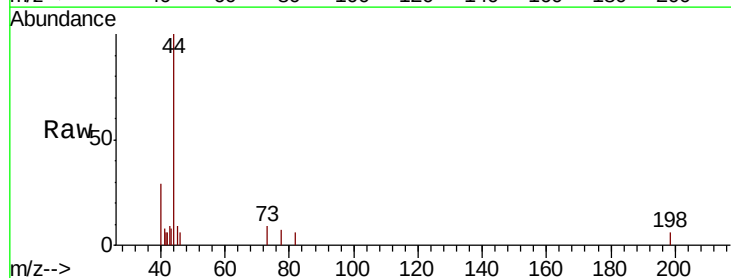
Acq: 19 Dec 2018 13:21

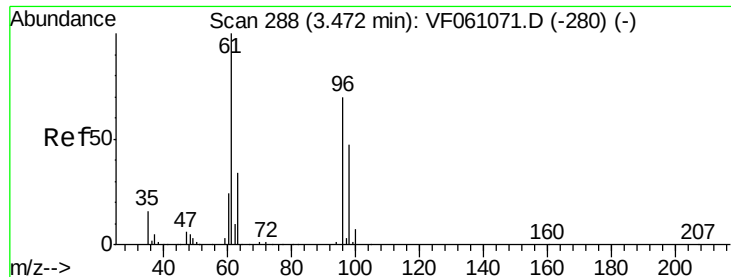
Tgt Ion: 77 Resp: 76

Ion Ratio Lower Upper

77 100

97 0.0 8.2 24.4#



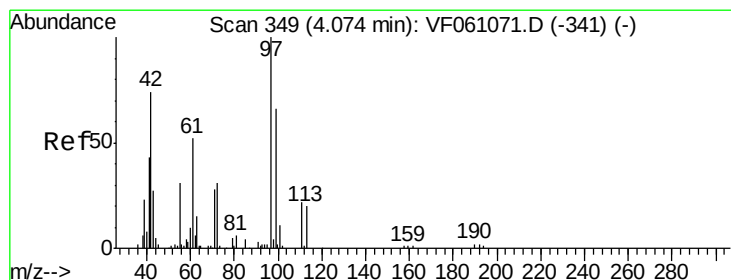
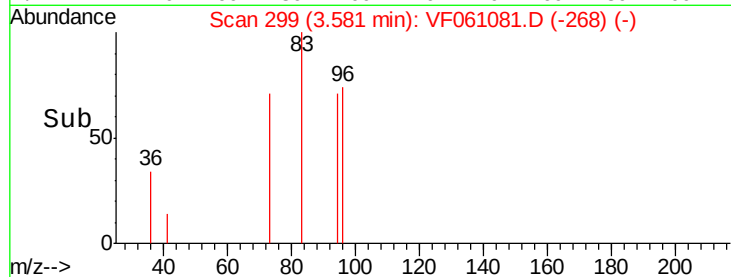
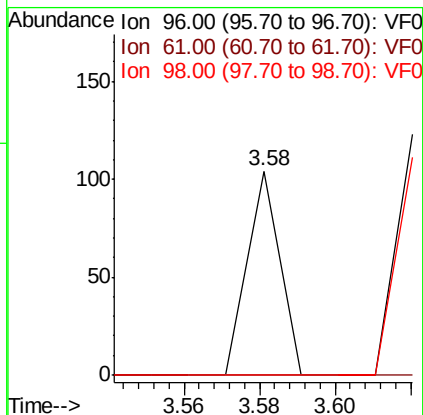
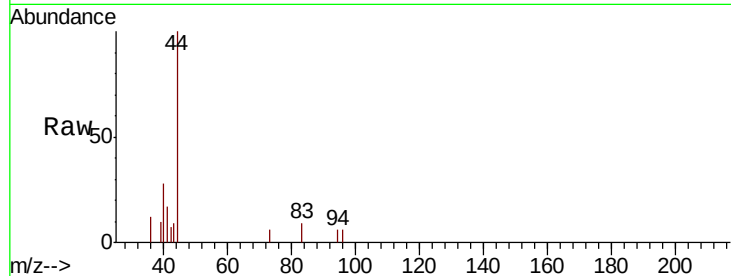


#27

cis-1,2-Dichloroethene
 Concen: 1.490 ug/l
 RT: 3.58 min Scan# 299
 Delta R.T. 0.11 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

Instrument :
 MSVOA_F
 ClientSampleId :

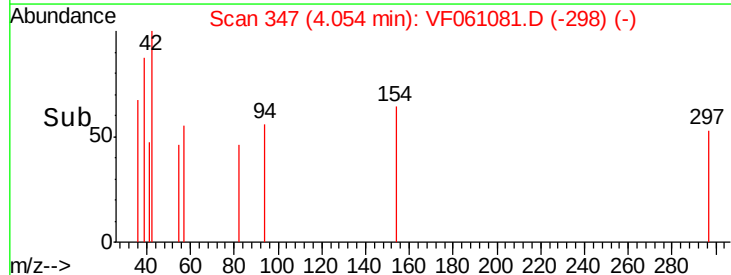
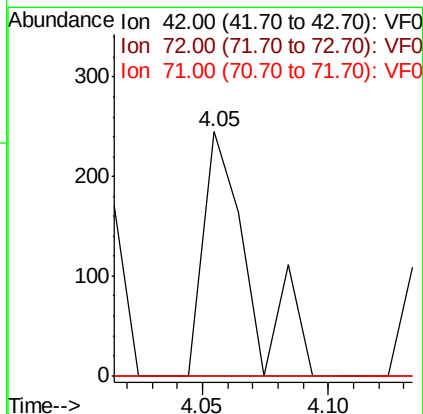
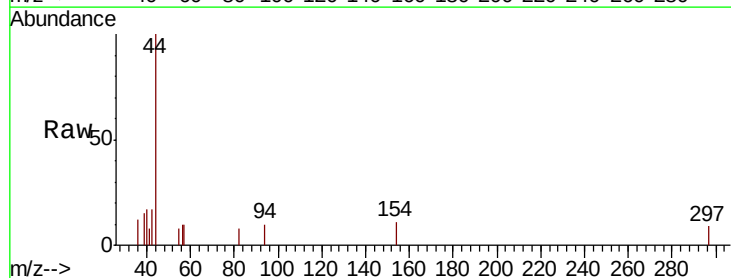
Tot Ion:	96	Resp:	62
Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	287.8
98	0.0	0.0	134.2

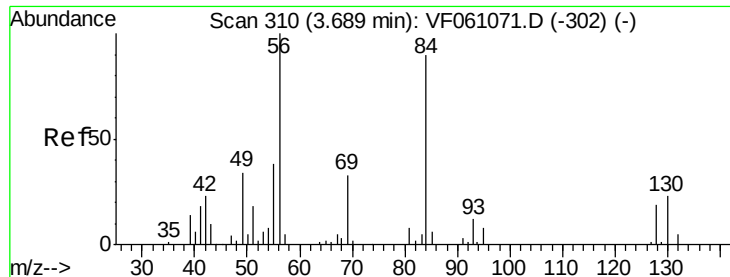


#29

Tetrahydrofuran
 Concen: 62.946 ug/l
 RT: 4.05 min Scan# 347
 Delta R.T. -0.02 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

Tgt Ion:	42	Resp:	308
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.8	47.8#
71	0.0	29.7	44.5#

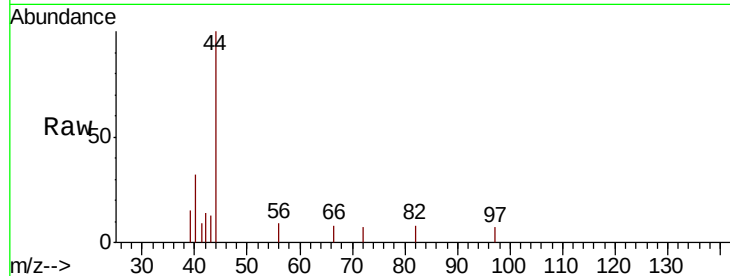




#31
Cvclohexane
Concen: 1.496 ug/l
RT: 3.68 min Scan# 309
Delta R.T. -0.01 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :

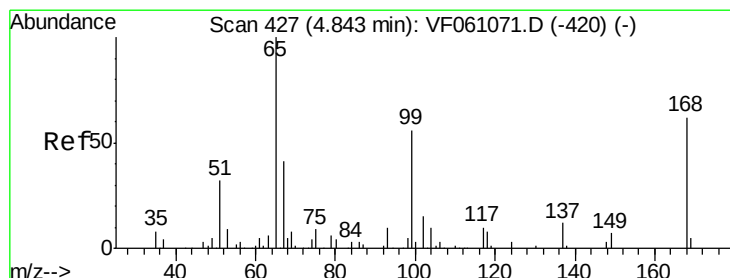
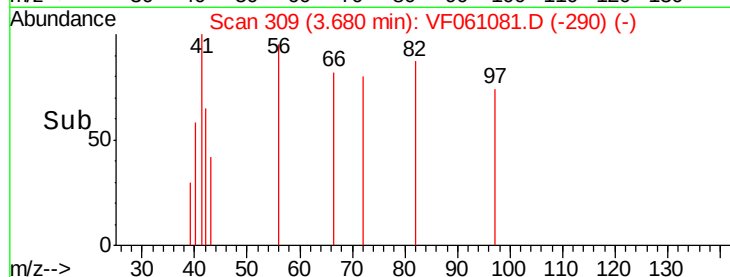
Tot Ion: 56 Resp: 81
Ion Ratio Lower Upper
56 100
69 0.0 26.0 39.0#
84 0.0 71.4 107.2#



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

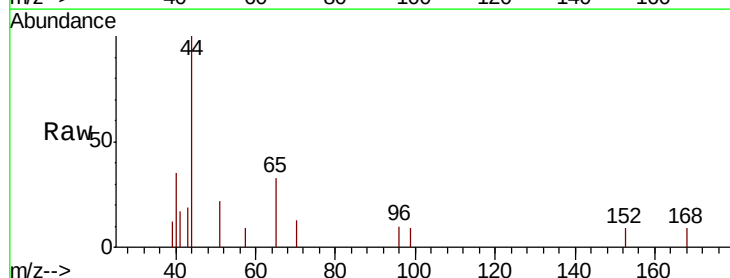
3.68

Time-->



#33
1,2-Dichloroethane-d4
Concen: 30.232 ug/l
RT: 4.83 min Scan# 426
Delta R.T. -0.01 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

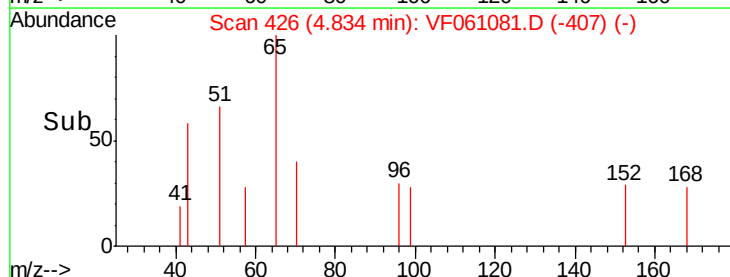
Tgt Ion: 65 Resp: 1121
Ion Ratio Lower Upper
65 100
67 0.0 0.0 94.6

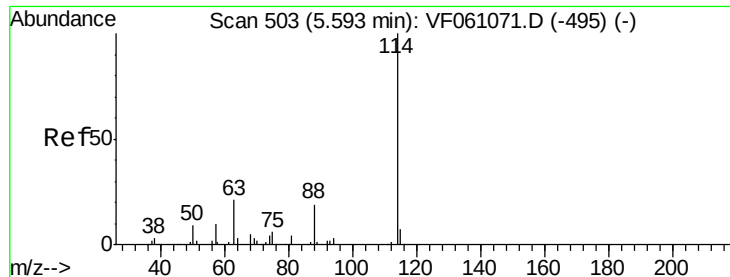


Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0

4.83

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :
MSVOA_F
ClientSampleId :

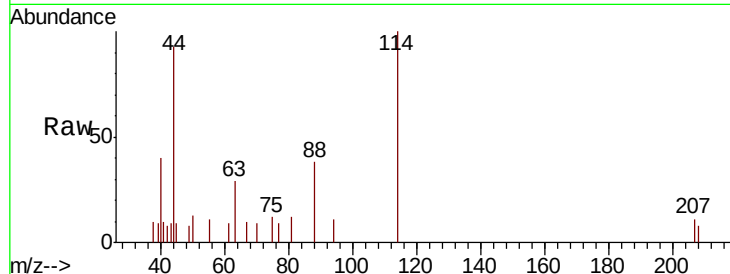
Tot Ion:114 Resp: 3704

Ion Ratio Lower Upper

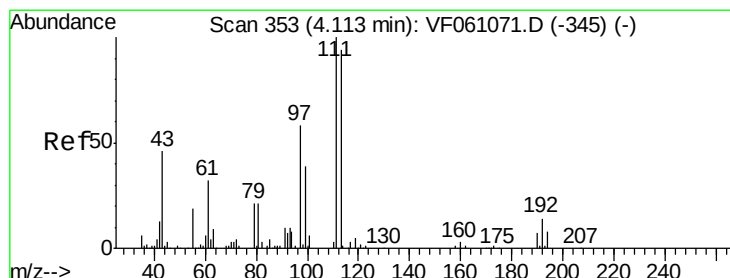
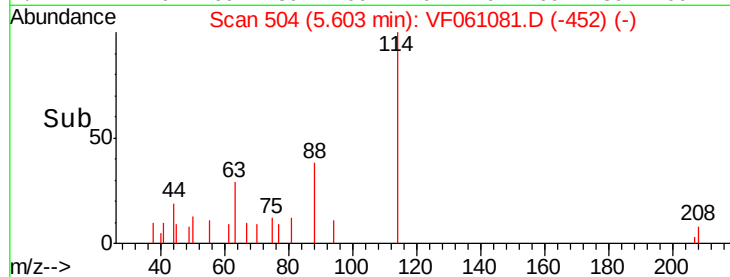
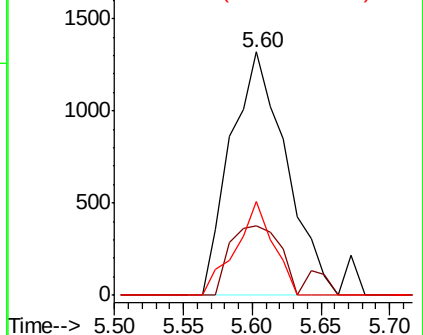
114 100

63 28.8 0.0 41.6

88 38.5 0.0 38.0#



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: 35.792 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

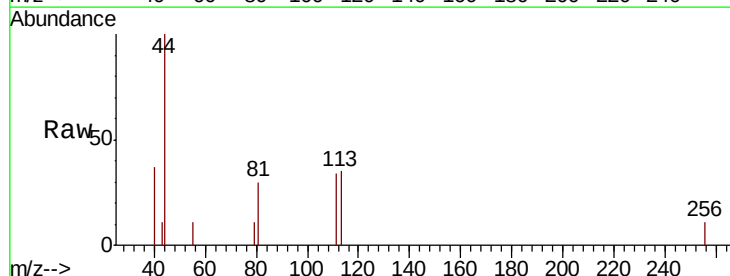
Tgt Ion:113 Resp: 1062

Ion Ratio Lower Upper

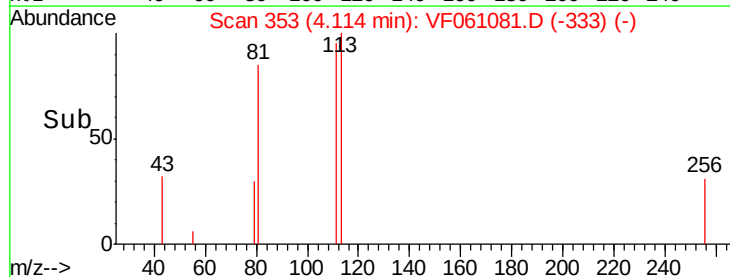
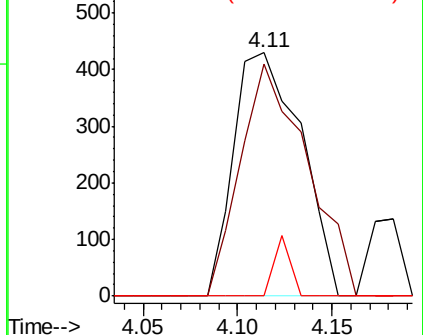
113 100

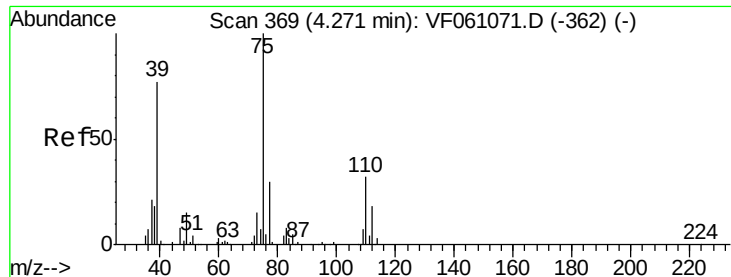
111 95.3 85.2 127.8

192 0.0 12.8 19.2#



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

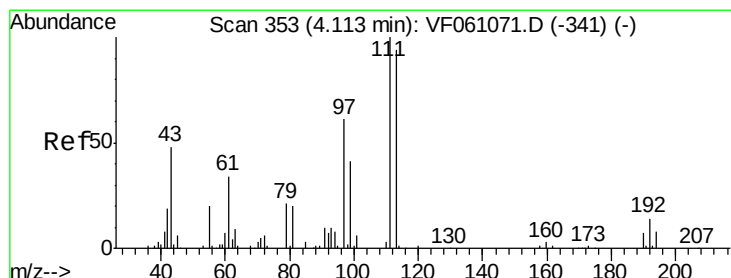
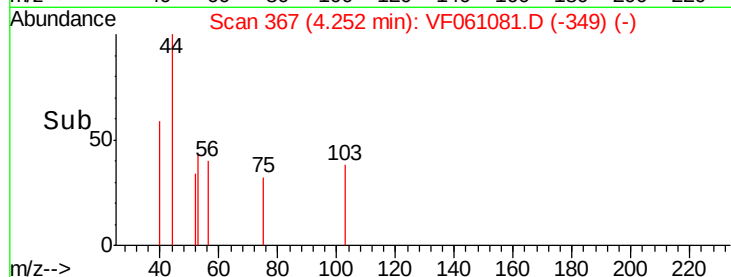
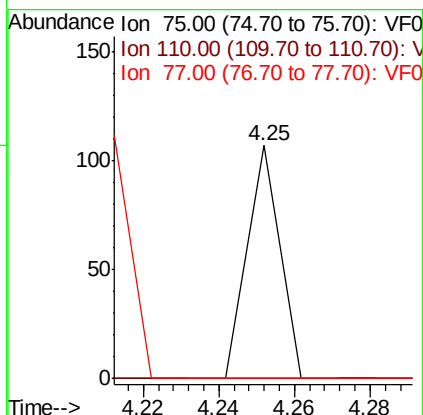
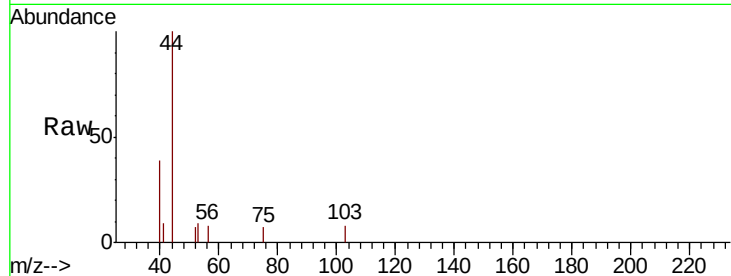




#36
 1,1-Dichloropropene
 Concen: 1.409 ug/l
 RT: 4.25 min Scan# 367
 Delta R.T. -0.02 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

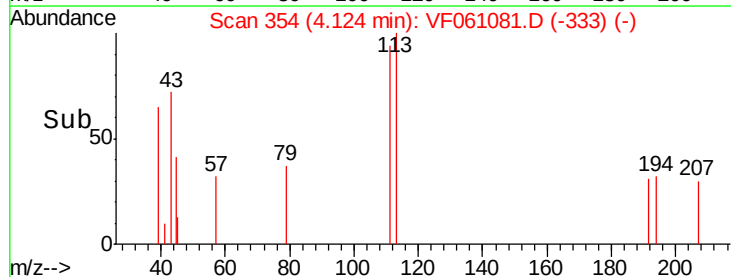
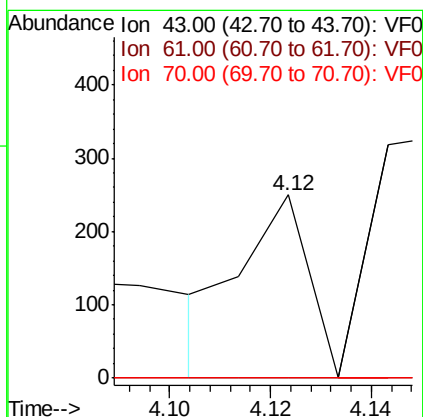
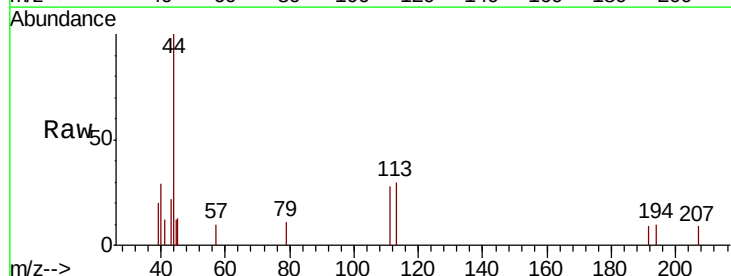
Instrument :
 MSVOA_F
 ClientSampled :

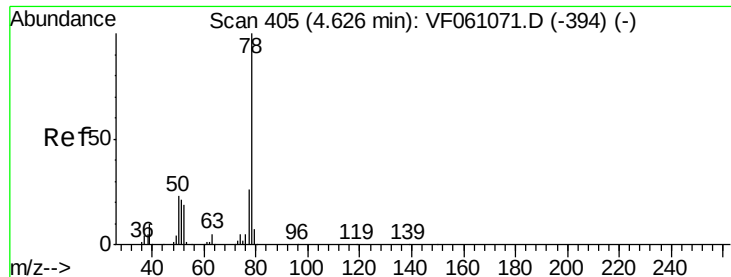
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.1	48.2#
77	0.0	24.5	36.7#



#37
 Ethyl Acetate
 Concen: 11.556 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	56.6	84.8#
70	0.0	6.3	9.5#





#40

Benzene

Concen: 1.685 ug/l

RT: 4.71 min Scan# 413

Delta R.T. 0.08 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

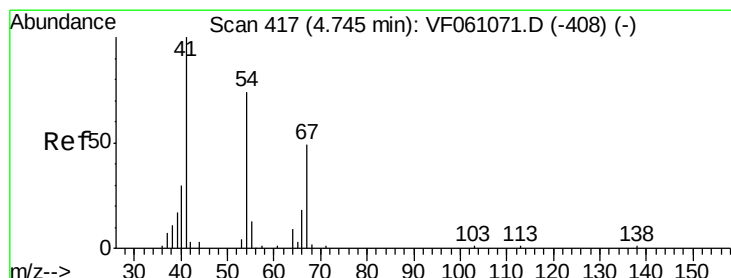
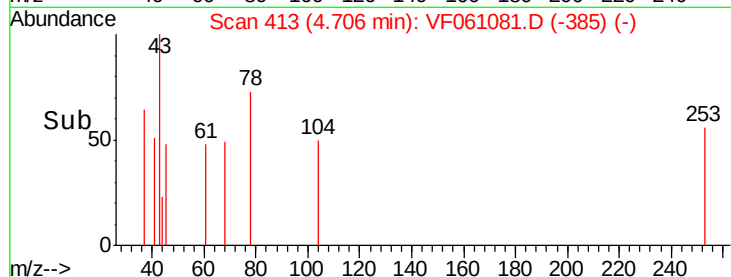
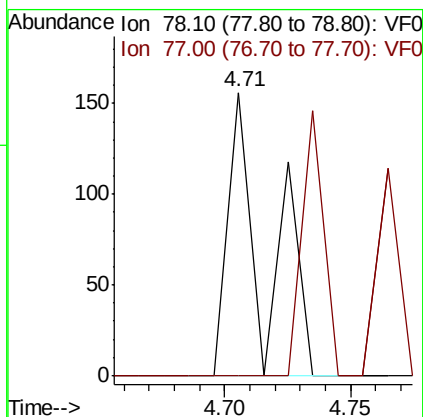
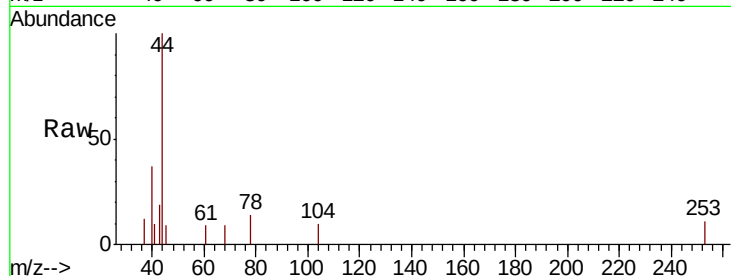
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 78 Resp: 162

Ion Ratio Lower Upper

78 100

77 0.0 20.7 31.1#



#41

Methacrylonitrile

Concen: 39.080 ug/l

RT: 4.73 min Scan# 415

Delta R.T. -0.02 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Tgt Ion: 41 Resp: 369

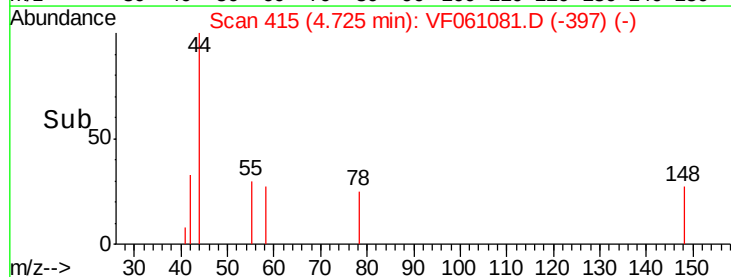
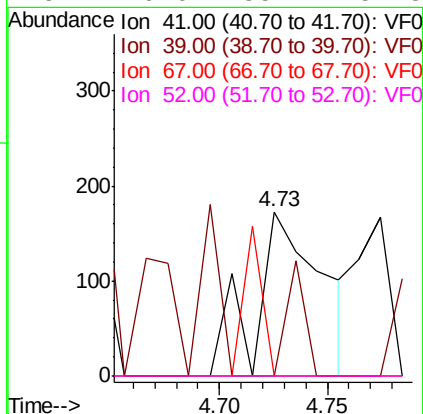
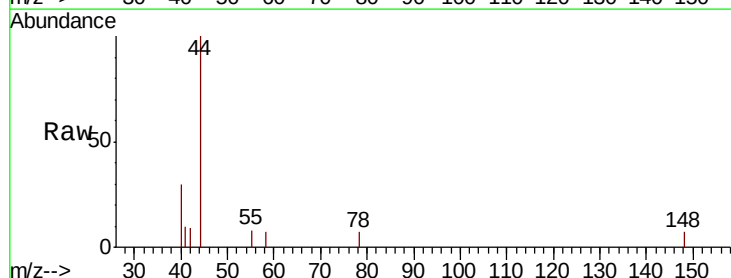
Ion Ratio Lower Upper

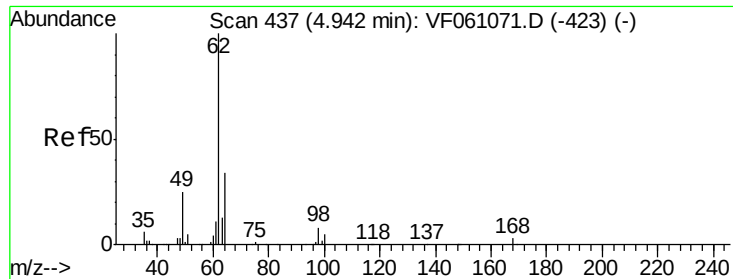
41 100

39 0.0 45.7 68.5#

67 0.0 38.9 58.3#

52 0.0 35.2 52.8#

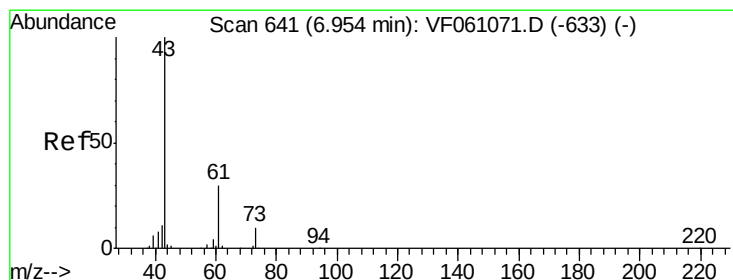
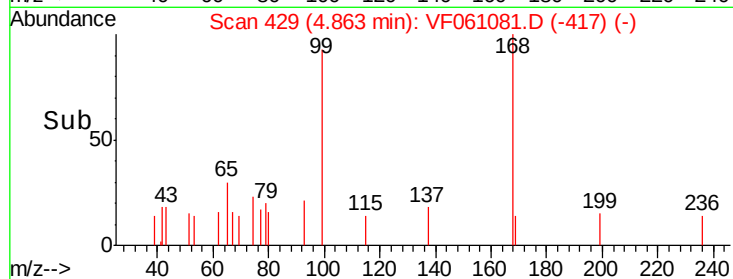
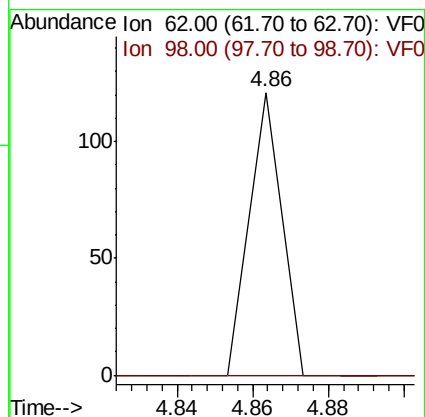
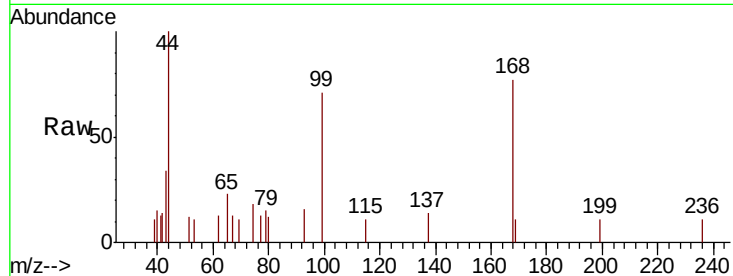




#42
 1,2-Dichloroethane
 Concen: 1.971 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.08 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

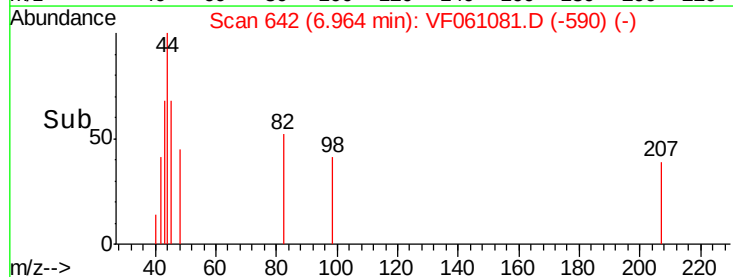
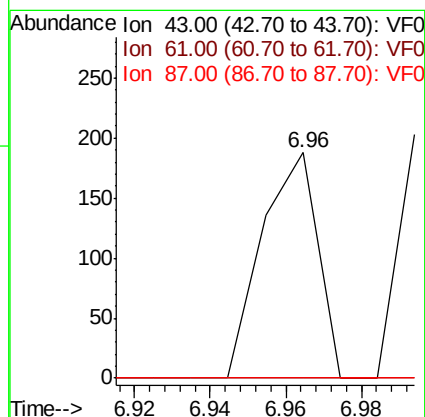
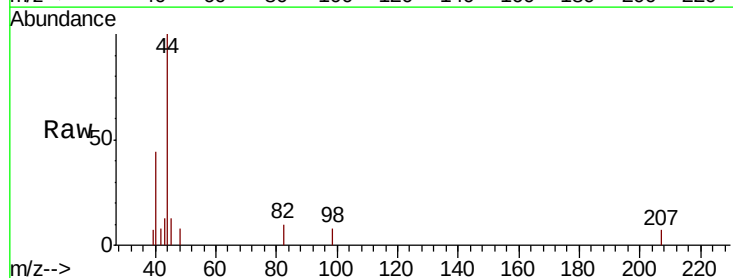
Instrument :
 MSVOA_F
 ClientSampled :

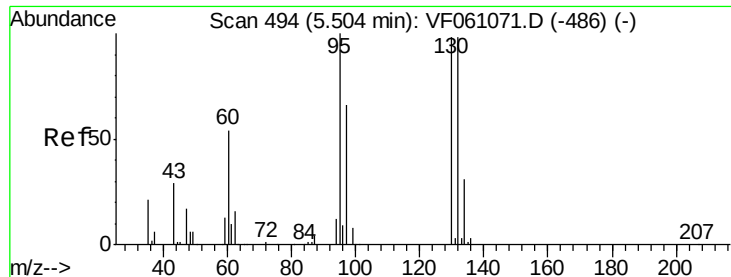
Tot Ion: 62 Resp: 72
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 16.6



#43
 Isopropyl Acetate
 Concen: 8.894 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. 0.01 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

Tgt Ion: 43 Resp: 192
 Ion Ratio Lower Upper
 43 100
 61 0.0 23.8 35.8#
 87 0.0 0.0 0.0





#44

Trichloroethene

Concen: 2.144 ug/l

RT: 5.40 min Scan# 483

Delta R.T. -0.11 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

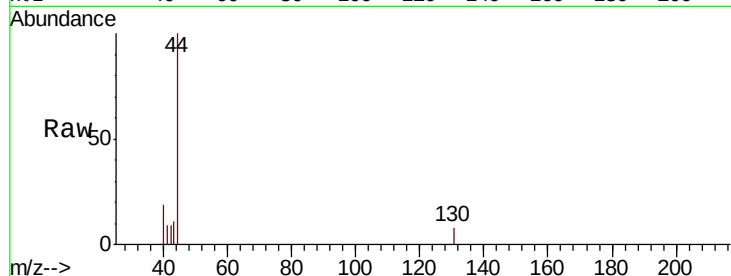
ClientSampleId :

Tot Ion:130 Resp: 65

Ion Ratio Lower Upper

130 100

95 0.0 0.0 205.2



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

5.40

120

100

80

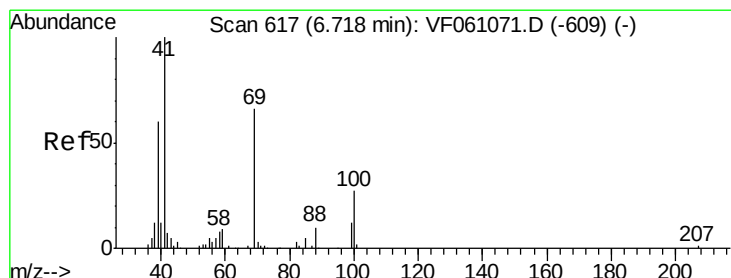
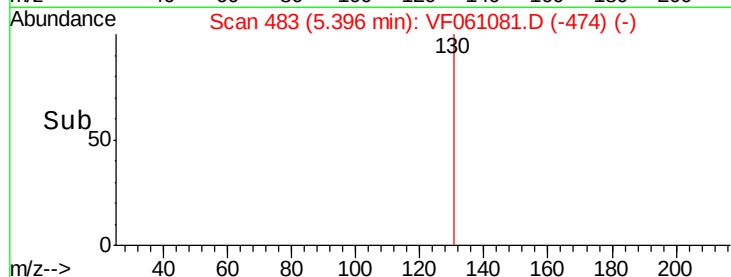
60

40

20

0

Time--> 5.36 5.38 5.40 5.42



#48

Methyl methacrylate

Concen: 7.100 ug/l

RT: 6.74 min Scan# 619

Delta R.T. 0.02 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

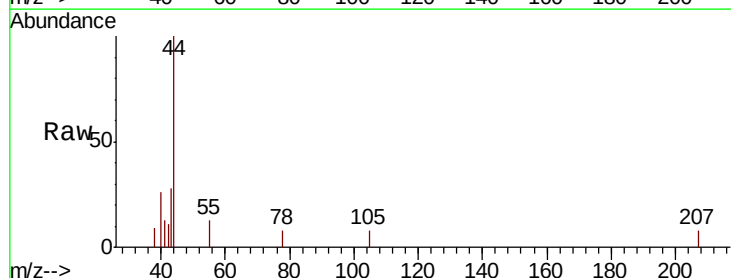
Tgt Ion: 41 Resp: 107

Ion Ratio Lower Upper

41 100

69 0.0 52.7 79.1#

39 0.0 47.8 71.6#



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

250

200

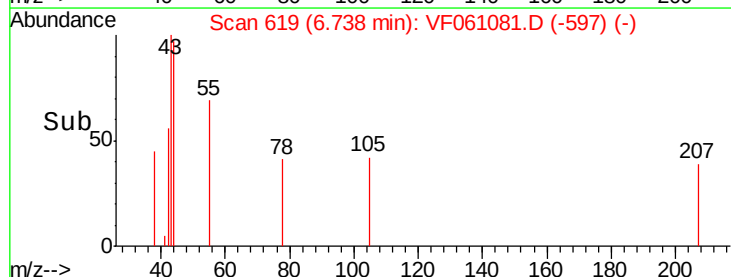
150

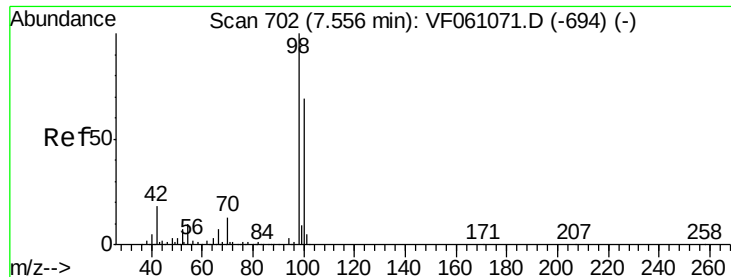
100

50

0

Time--> 6.72 6.73 6.74 6.75





#50

Toluene-d8

Concen: 37.724 ug/l

RT: 7.56 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

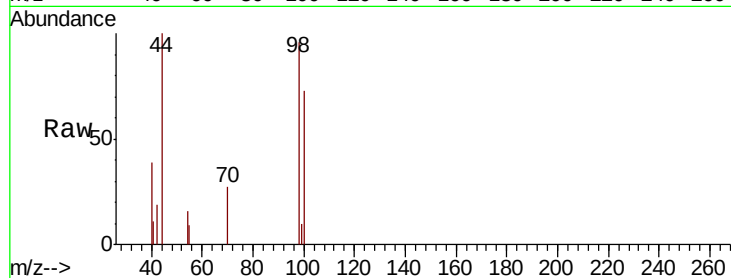
ClientSampleId :

Tot Ion: 98 Resp: 3172

Ion Ratio Lower Upper

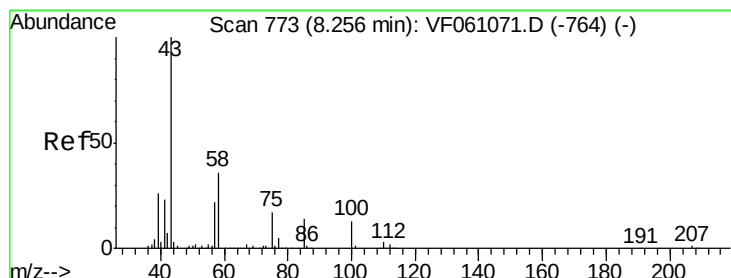
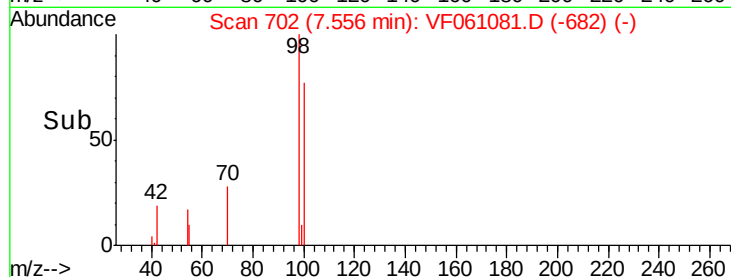
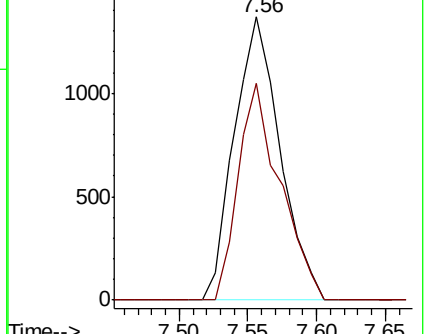
98 100

100 76.6 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#51

4-Methyl-2-Pentanone

Concen: 38.229 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.02 min

Lab File: VF061081.D

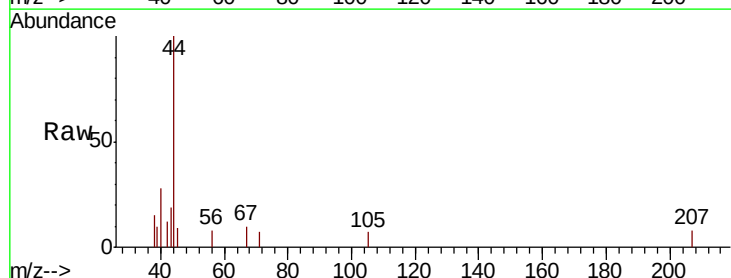
Acq: 19 Dec 2018 13:21

Tgt Ion: 43 Resp: 566

Ion Ratio Lower Upper

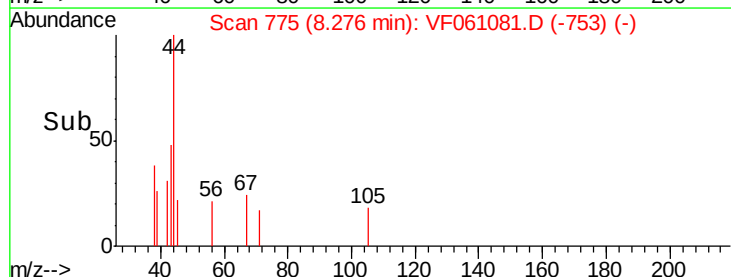
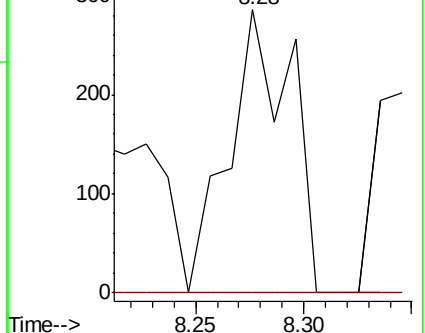
43 100

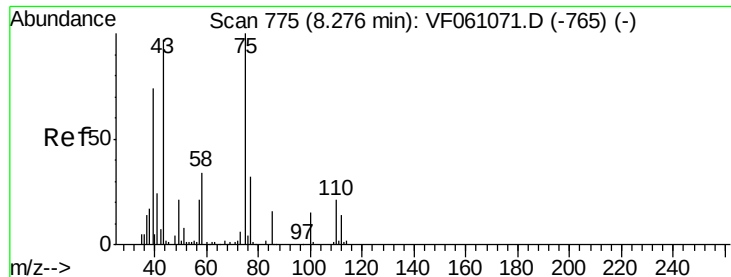
58 0.0 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

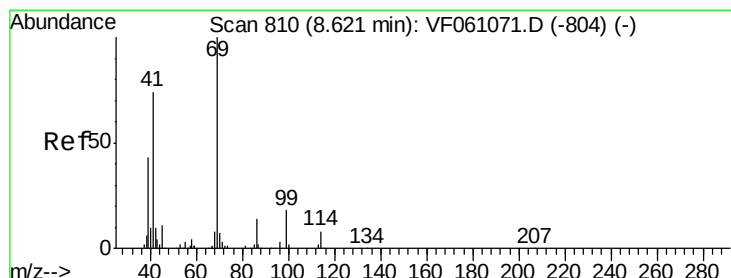
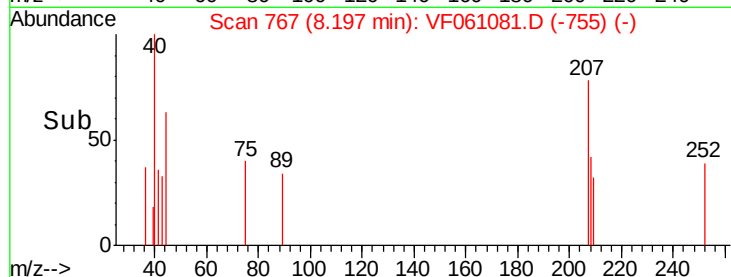
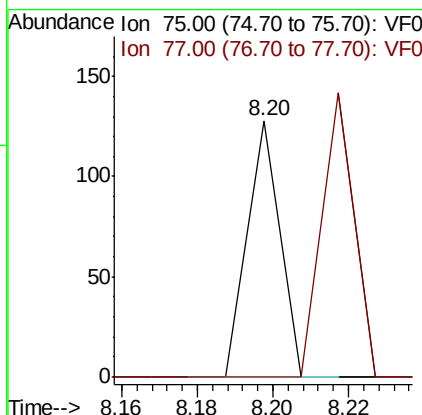
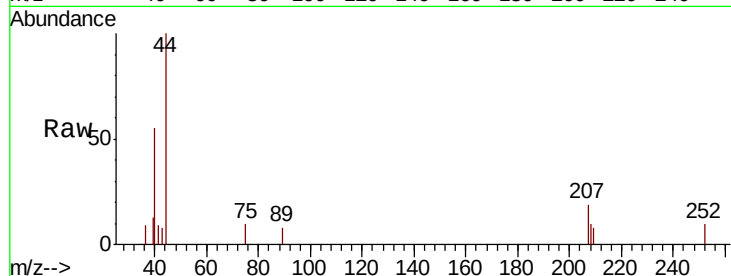




#53
t-1,3-Dichloropropene
Concen: 2.137 ug/l
RT: 8.20 min Scan# 767
Delta R.T. -0.08 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

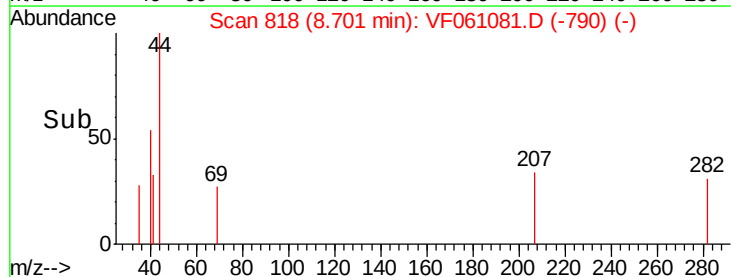
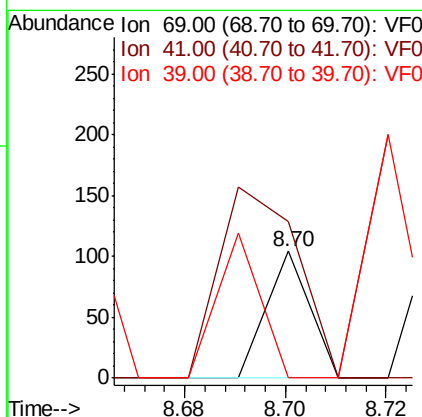
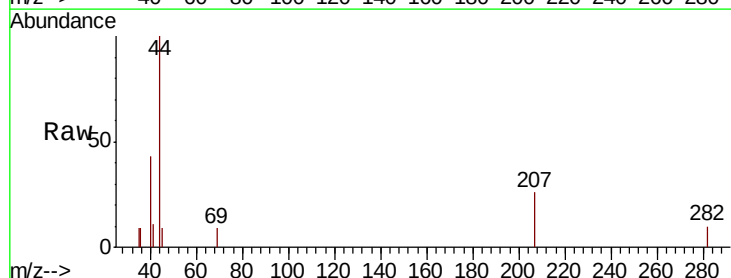
Instrument :
MSVOA_F
ClientSampled :

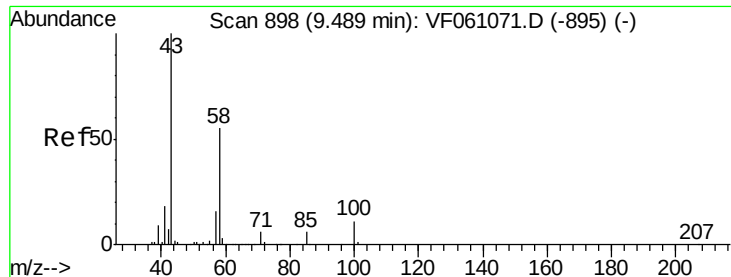
Tot Ion: 75 Resp: 76
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#



#56
Ethyl methacrylate
Concen: 3.003 ug/l
RT: 8.70 min Scan# 818
Delta R.T. 0.08 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

Tgt Ion: 69 Resp: 62
Ion Ratio Lower Upper
69 100
41 124.0 59.7 89.5#
39 0.0 35.0 52.6#

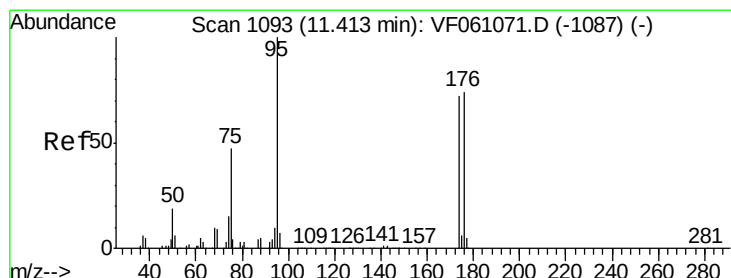
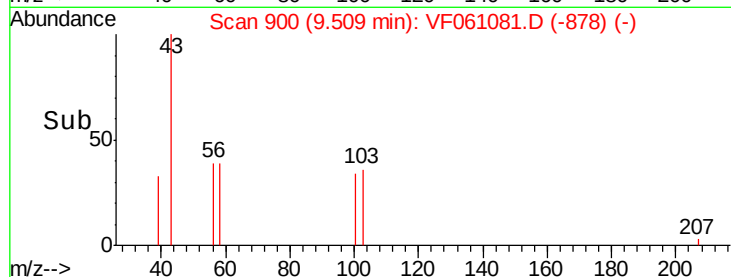
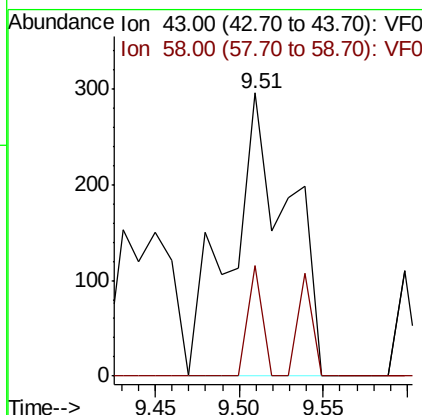
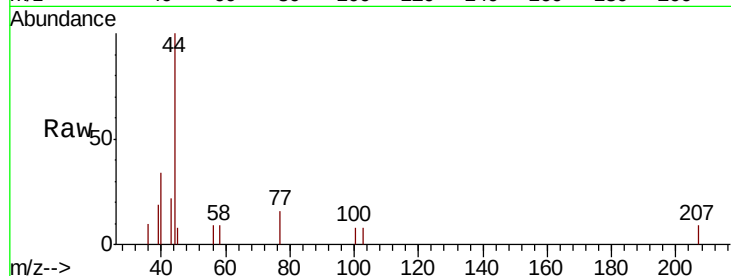




#59
2-Hexanone
Concen: 66.405 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.02 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

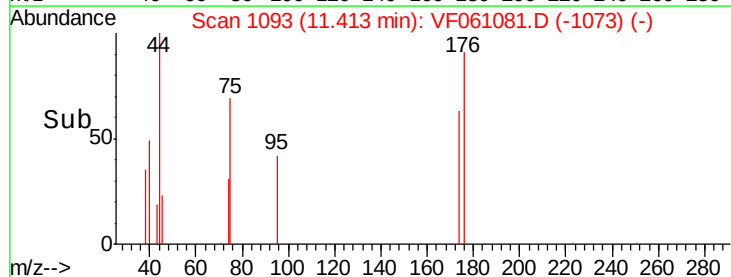
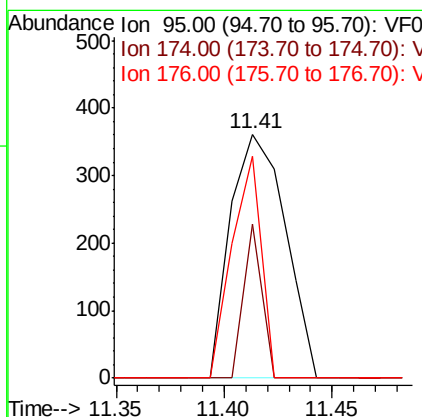
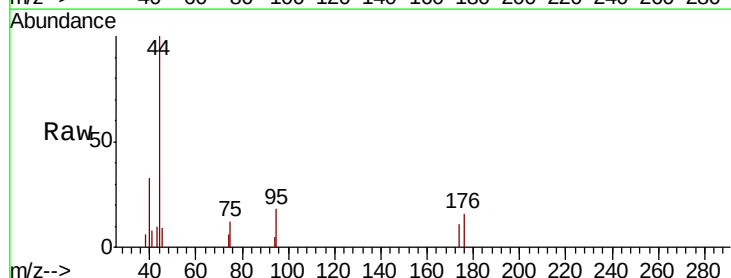
Instrument :
MSVOA_F
ClientSampleId :

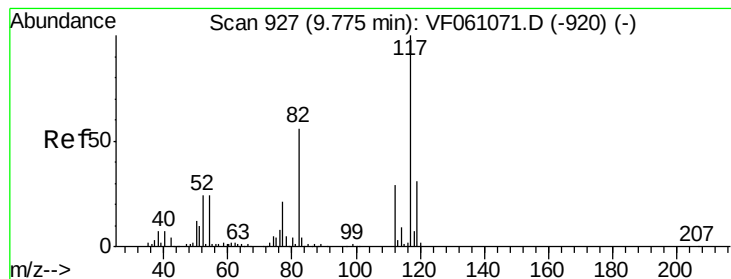
Tot Ion: 43 Resp: 711
Ion Ratio Lower Upper
43 100
58 39.2 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 16.433 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

Tgt Ion: 95 Resp: 637
Ion Ratio Lower Upper
95 100
174 63.2 0.0 143.8
176 90.9 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 928

Delta R.T. 0.01 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

ClientSampled :

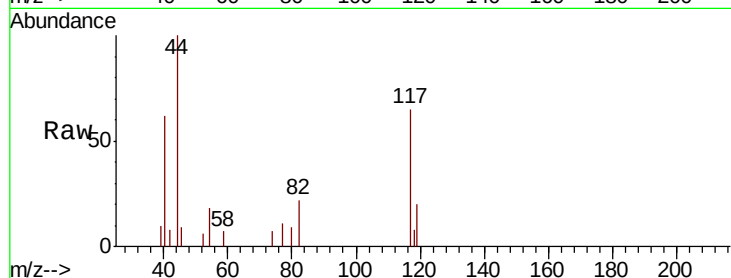
Tot Ion:117 Resp: 2143

Ion Ratio Lower Upper

117 100

82 33.1 45.0 67.4#

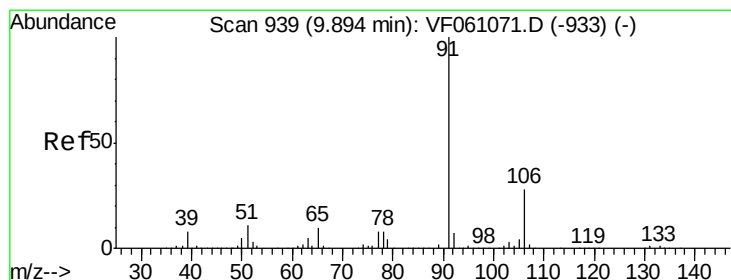
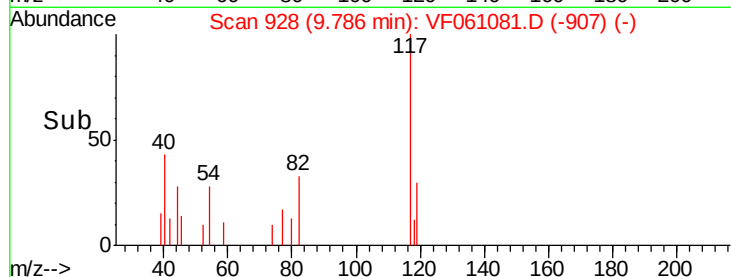
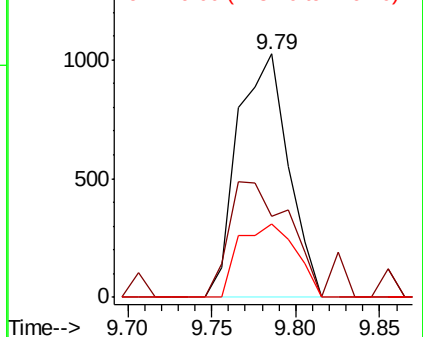
119 30.2 24.8 37.2



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 2.839 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.02 min

Lab File: VF061081.D

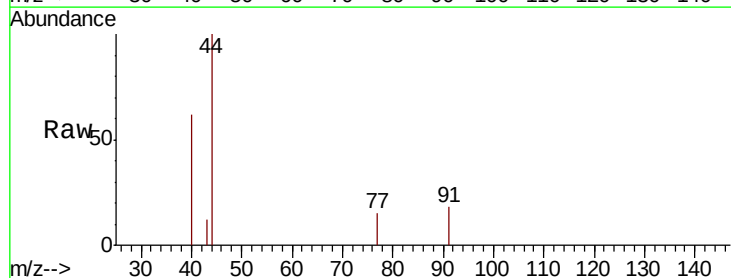
Acq: 19 Dec 2018 13:21

Tgt Ion: 91 Resp: 229

Ion Ratio Lower Upper

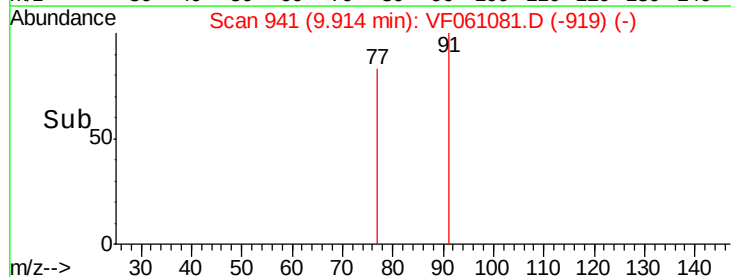
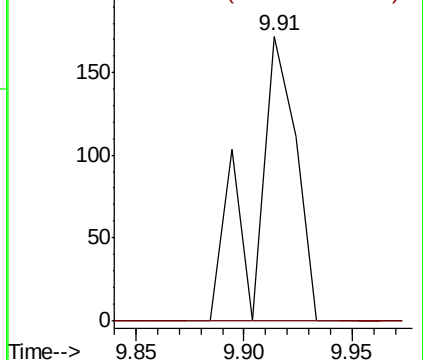
91 100

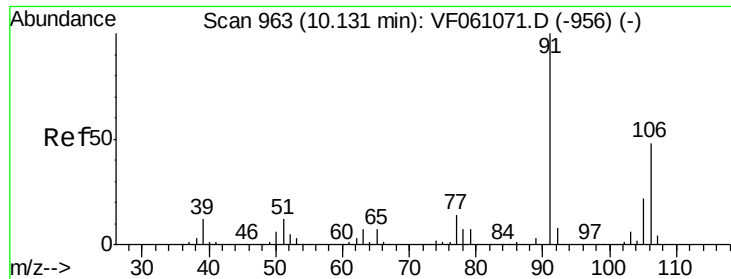
106 0.0 22.5 33.7#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

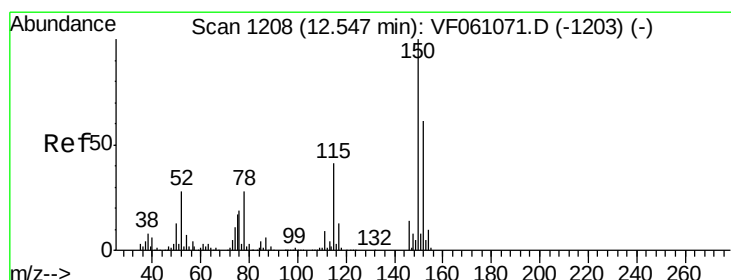
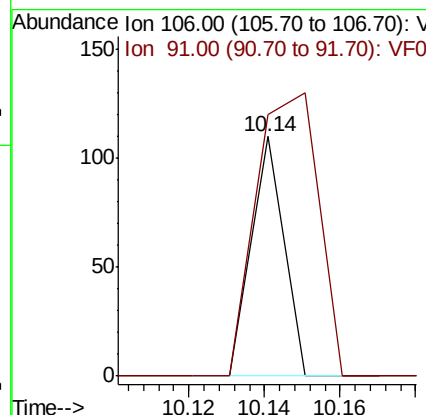
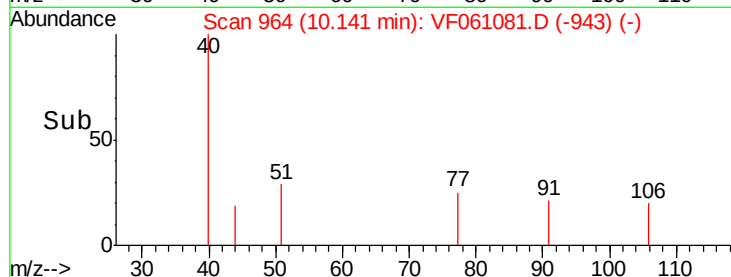
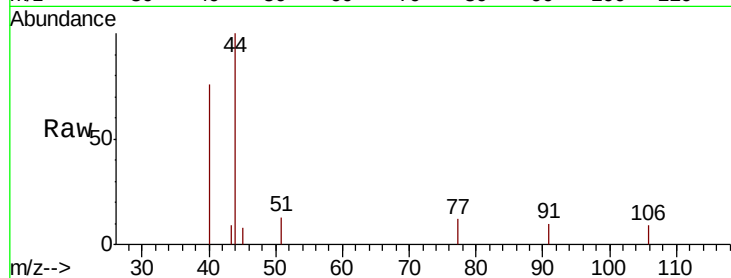




#68
m/p-Xylenes
Concen: 2.290 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.01 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

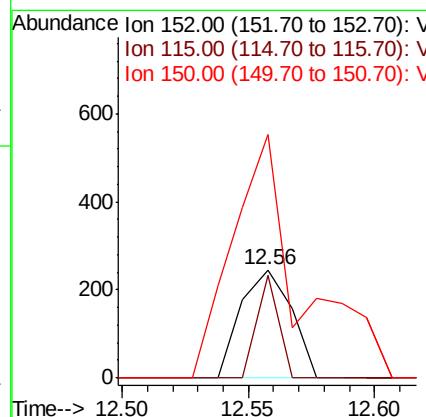
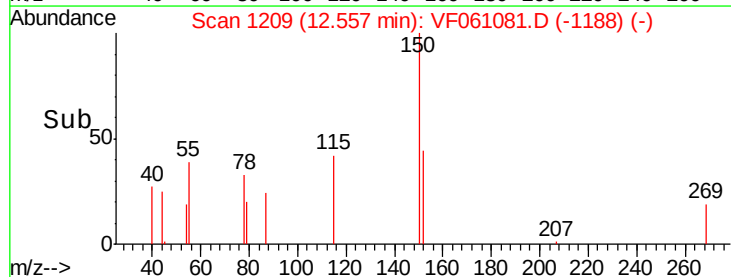
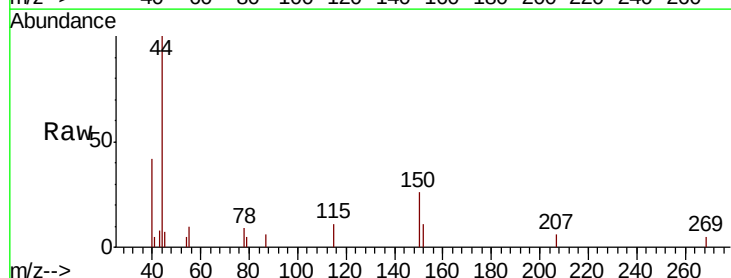
Instrument :
MSVOA_F
ClientSampled :

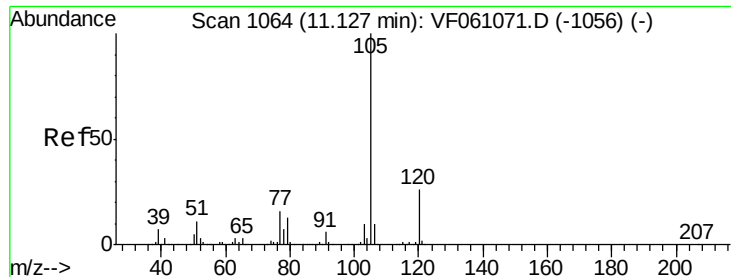
Tot Ion:106 Resp: 65
Ion Ratio Lower Upper
106 100
91 109.1 168.2 252.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061081.D
Acq: 19 Dec 2018 13:21

Tgt Ion:152 Resp: 344
Ion Ratio Lower Upper
152 100
115 95.5 33.3 99.9
150 225.7 0.0 328.2





#73

Isopropylbenzene

Concen: 9.378 ug/l

RT: 11.23 min Scan# 1074

Delta R.T. 0.10 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

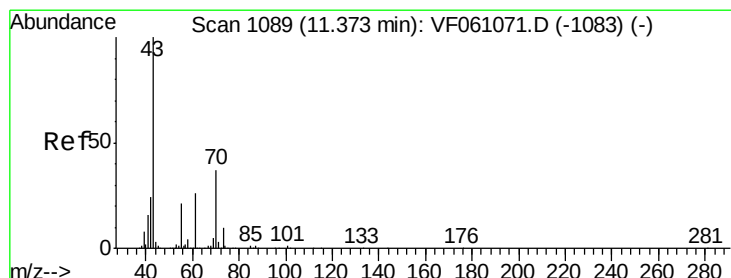
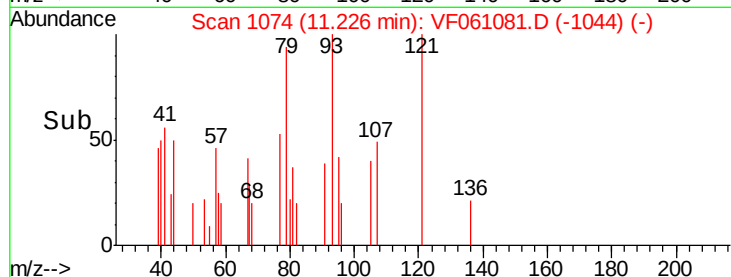
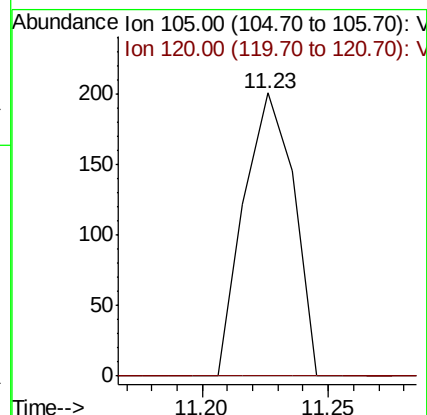
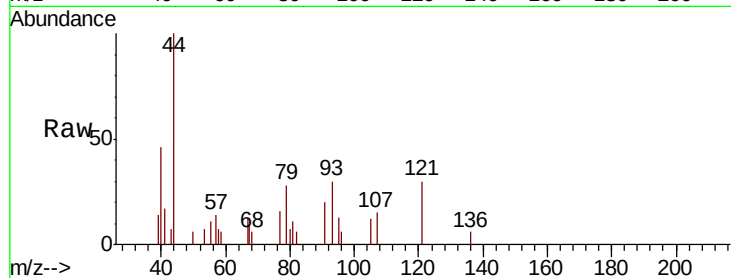
ClientSampled :

Tot Ion:105 Resp: 278

Ion Ratio Lower Upper

105 100

120 0.0 13.0 39.0#



#74

N-ethyl acetate

Concen: 53.787 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Tgt Ion: 43 Resp: 354

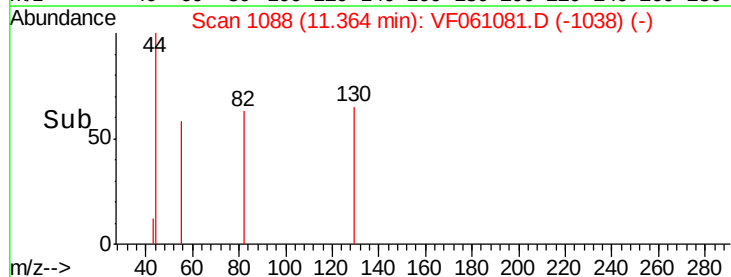
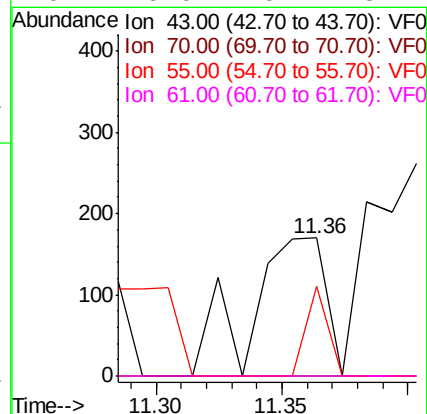
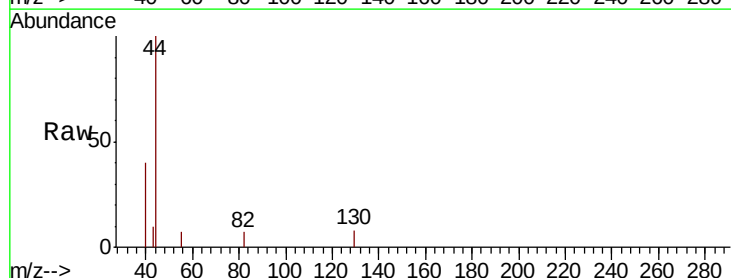
Ion Ratio Lower Upper

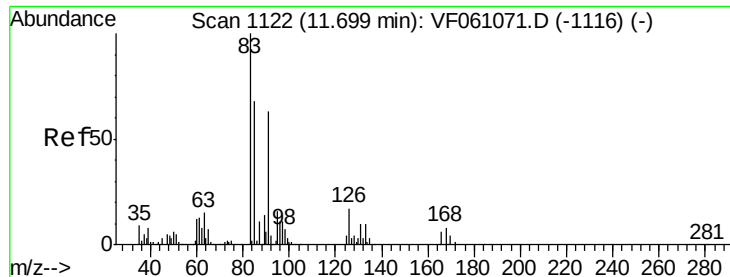
43 100

70 0.0 29.2 43.8#

55 64.7 16.5 24.7#

61 0.0 20.7 31.1#





#75

1,1,2,2-Tetrachloroethane

Concen: 12.398 ug/l

RT: 11.62 min Scan# 1114

Delta R.T. -0.08 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :

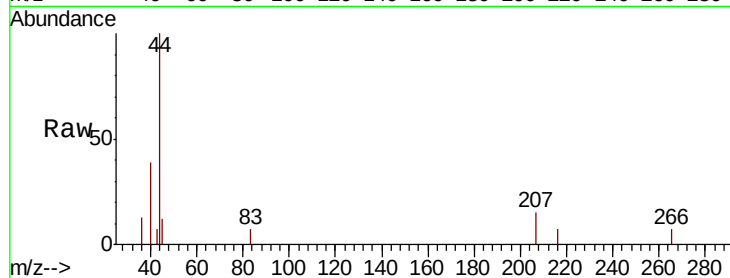
Tot Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 0.0 33.9 101.6#

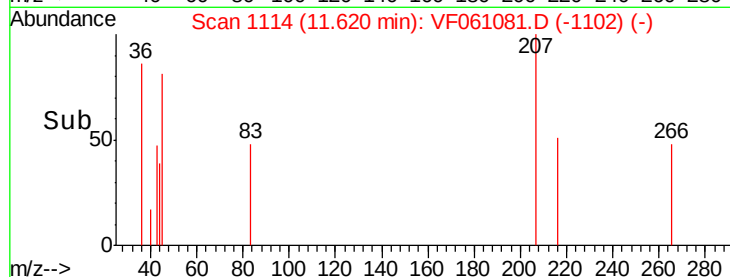


Abundance Ion 83.00 (82.70 to 83.70): VF0

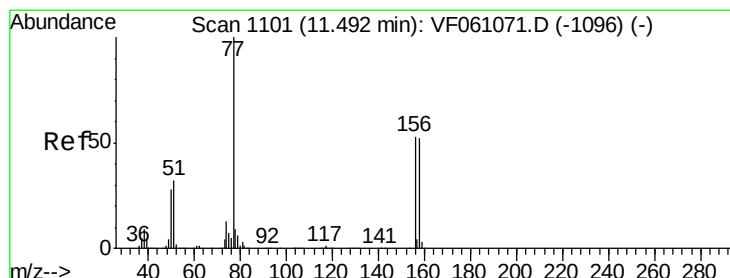
Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

11.62



Time-->



#77

Bromobenzene

Concen: 9.402 ug/l

RT: 11.53 min Scan# 1105

Delta R.T. 0.04 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

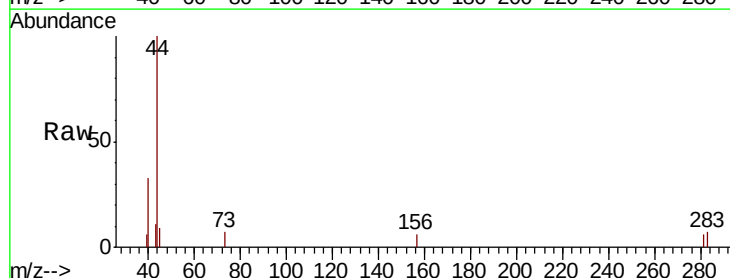
Tgt Ion: 156 Resp: 60

Ion Ratio Lower Upper

156 100

77 0.0 93.8 281.4#

158 0.0 48.9 146.8#

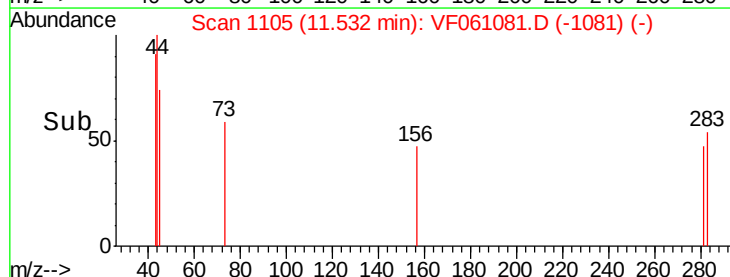


Abundance Ion 156.00 (155.70 to 156.70): V

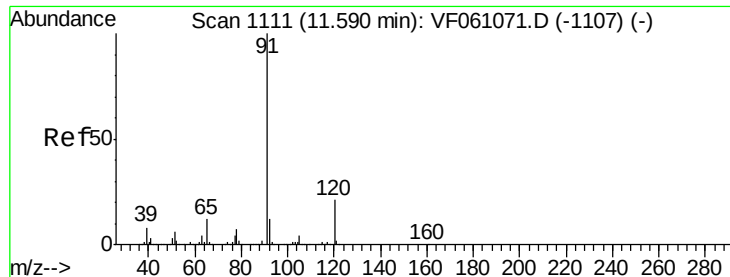
Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V

11.53



Time-->



#78

n-propylbenzene

Concen: 4.234 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

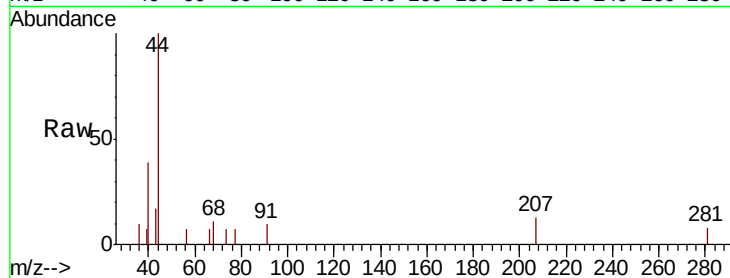
ClientSampleId :

Tot Ion: 91 Resp: 177

Ion Ratio Lower Upper

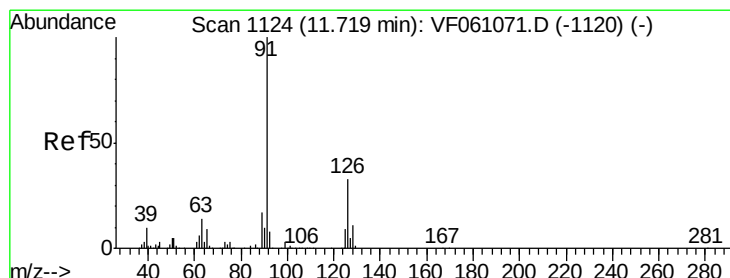
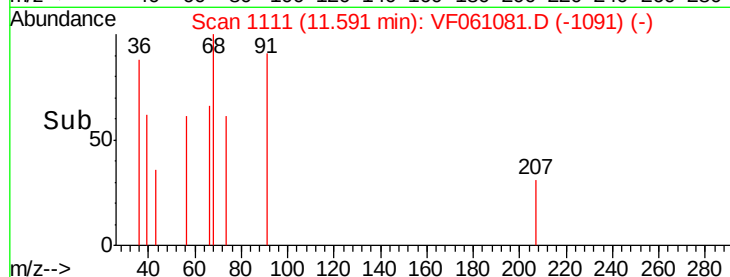
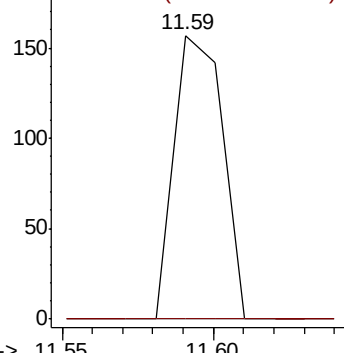
91 100

120 0.0 10.4 31.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 6.147 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.01 min

Lab File: VF061081.D

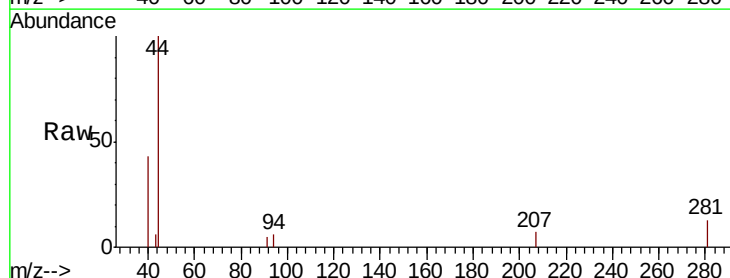
Acq: 19 Dec 2018 13:21

Tgt Ion: 91 Resp: 125

Ion Ratio Lower Upper

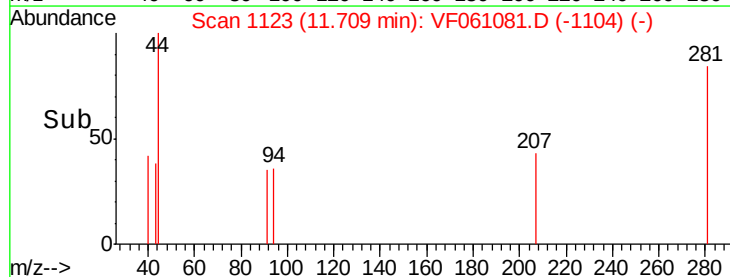
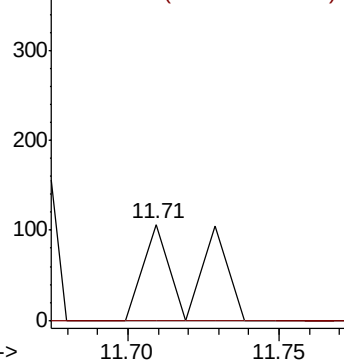
91 100

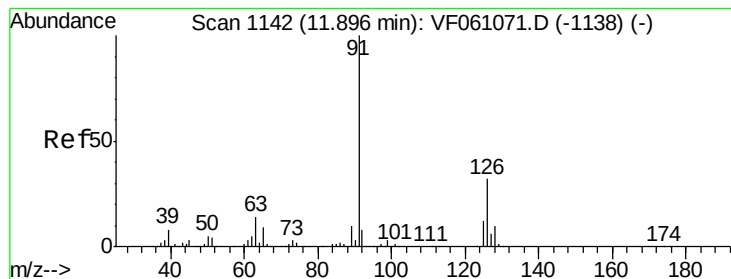
126 0.0 16.4 49.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#82

4-Chlorotoluene

Concen: 3.755 ug/l

RT: 11.92 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

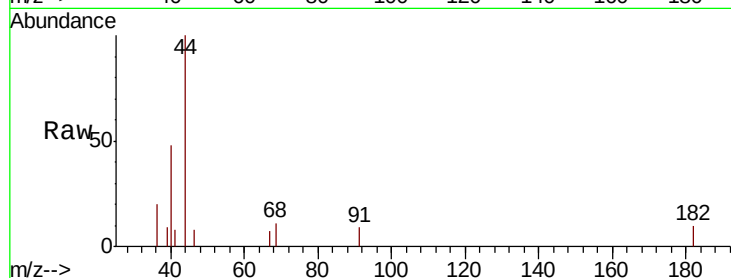
ClientSampled :

Tot Ion: 91 Resp: 79

Ion Ratio Lower Upper

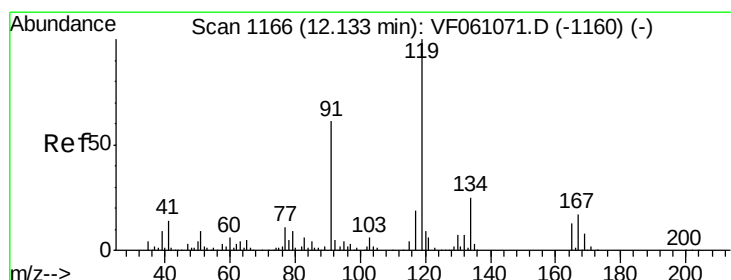
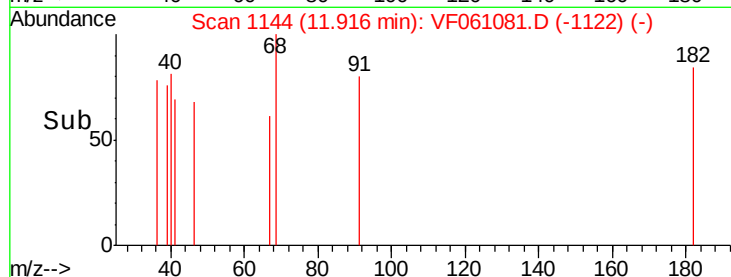
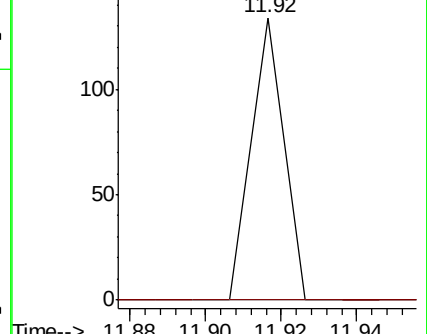
91 100

126 0.0 16.0 47.9#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#83

tert-Butylbenzene

Concen: 2.707 ug/l

RT: 12.13 min Scan# 1166

Delta R.T. 0.00 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

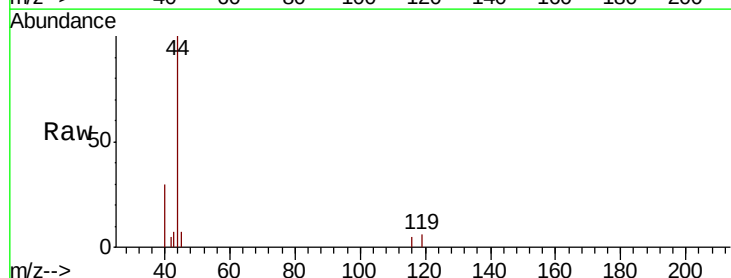
Tgt Ion: 119 Resp: 68

Ion Ratio Lower Upper

119 100

91 0.0 30.5 91.5#

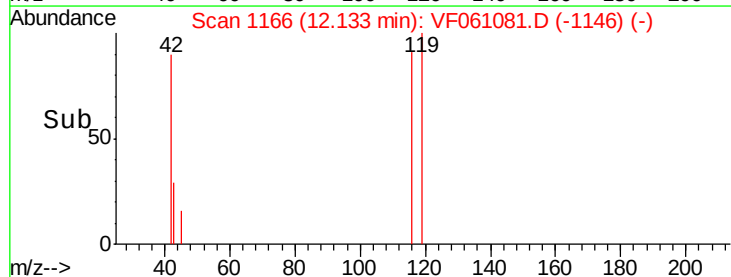
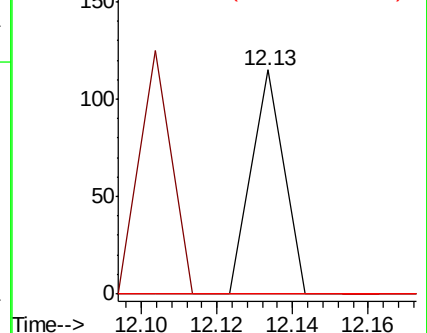
134 0.0 12.4 37.4#

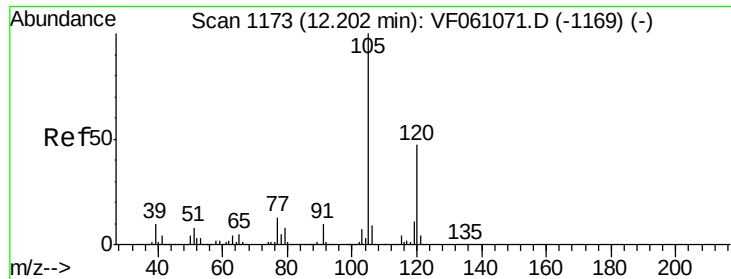


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

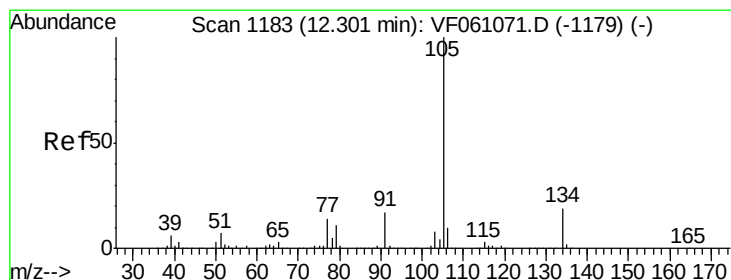
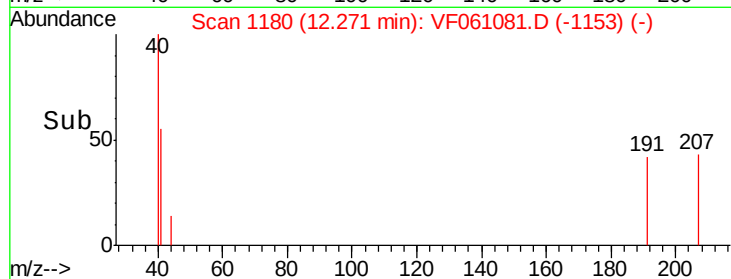
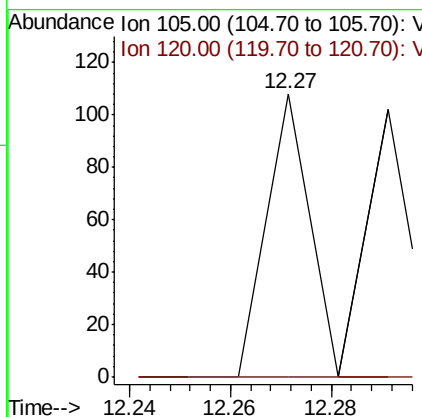
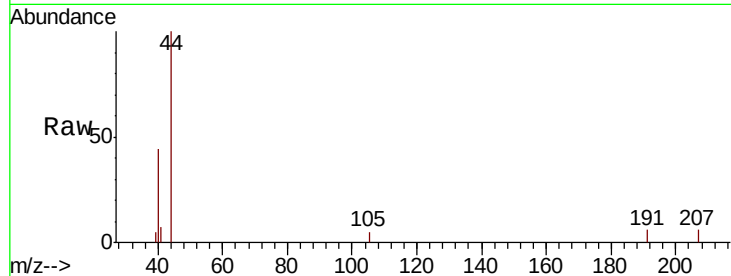




#84
 1,2,4-Trimethylbenzene
 Concen: 2.629 ug/l
 RT: 12.27 min Scan# 1180
 Delta R.T. 0.07 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

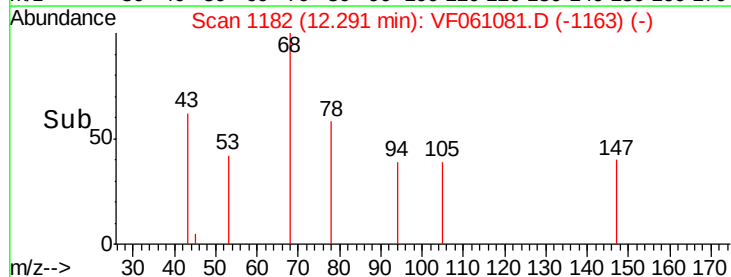
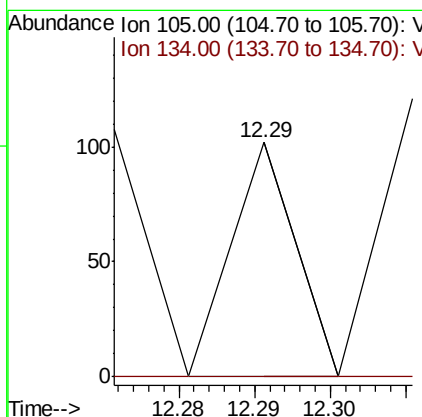
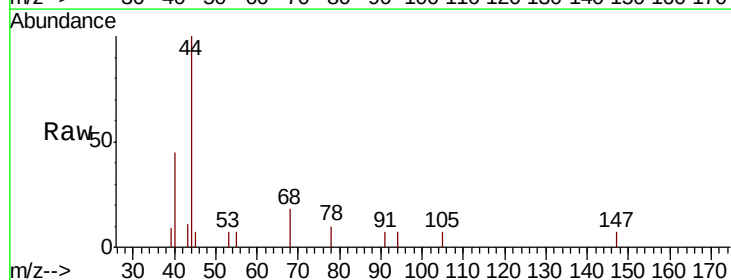
Instrument :
 MSVOA_F
 ClientSampleId :

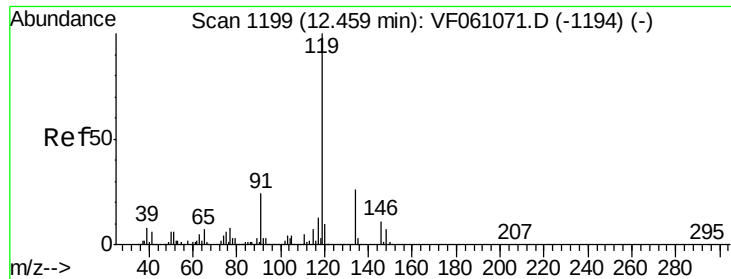
Tot Ion:105 Resp: 64
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.6 71.0#



#85
 sec-Butylbenzene
 Concen: 1.830 ug/l
 RT: 12.29 min Scan# 1182
 Delta R.T. -0.01 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

Tgt Ion:105 Resp: 60
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.4 28.2#





#86

p-Isopropyltoluene

Concen: 2.903 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VF061081.D

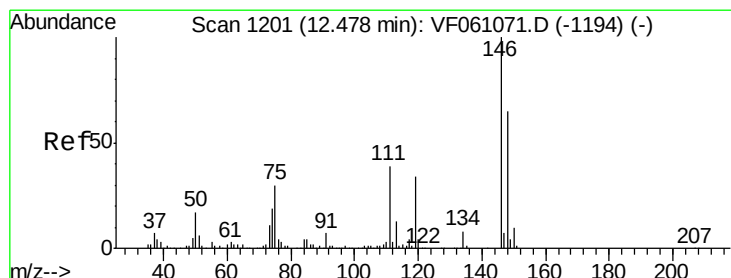
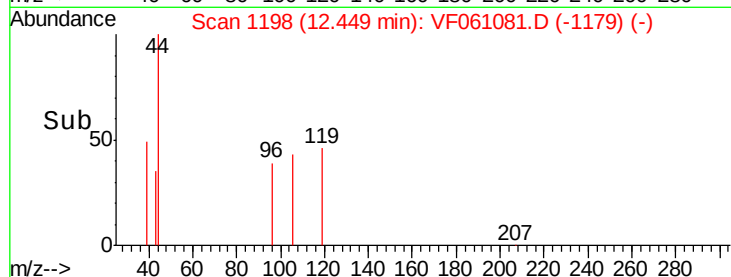
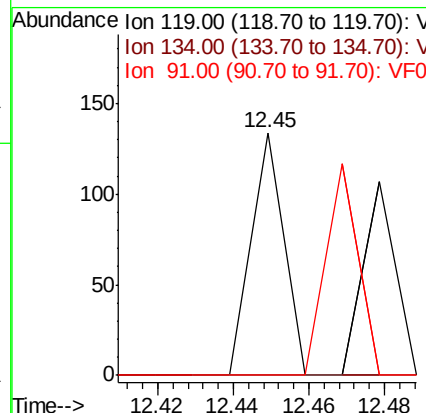
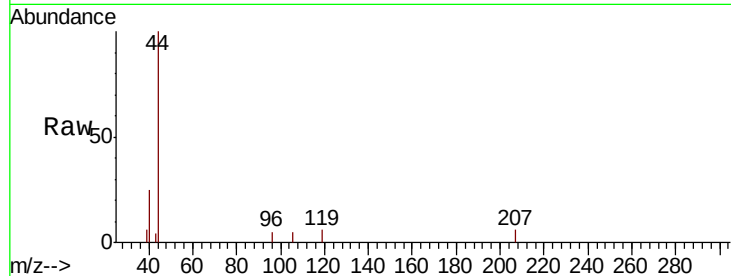
Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

ClientSampled :

Tot Ion:119	Resp:	79
Ion Ratio	Lower	Upper
119	100	
134	0.0	12.8 38.4#
91	0.0	12.2 36.6#



#87

1,3-Dichlorobenzene

Concen: 9.359 ug/l

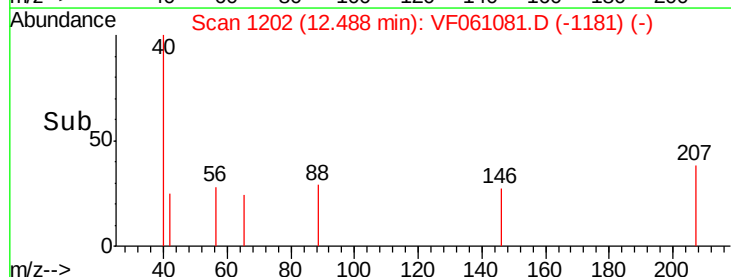
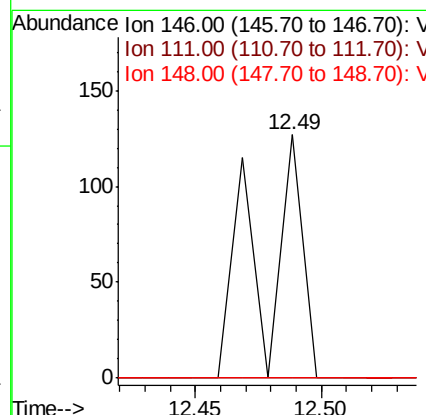
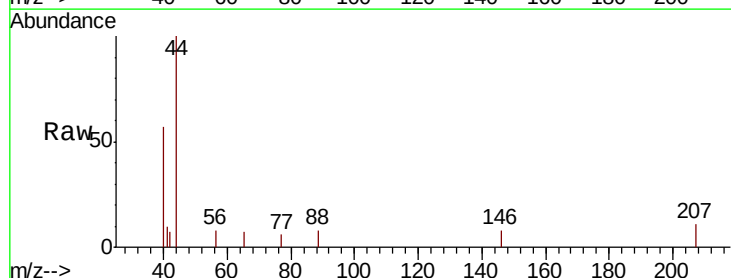
RT: 12.49 min Scan# 1202

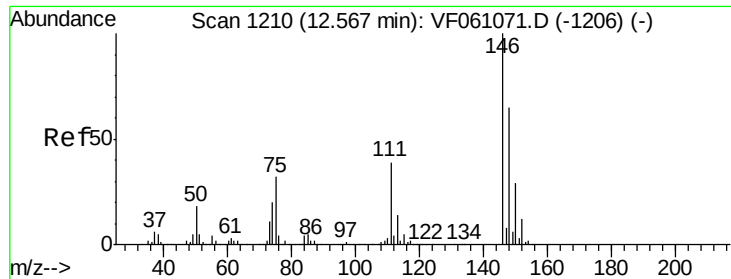
Delta R.T. 0.01 min

Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Tgt Ion:146	Resp:	143
Ion Ratio	Lower	Upper
146	100	
111	0.0	19.3 57.9#
148	0.0	32.4 97.2#

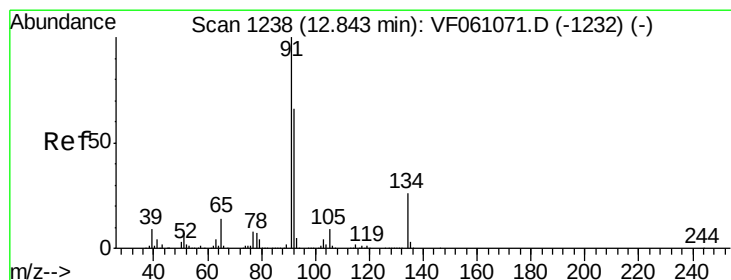
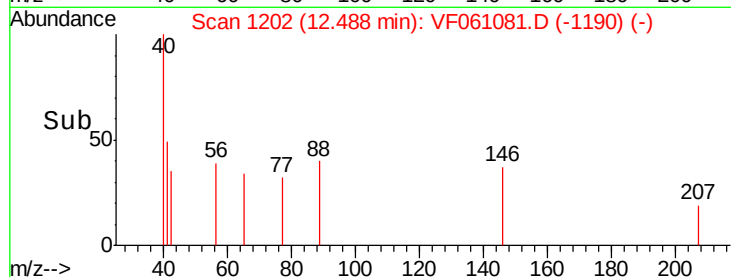
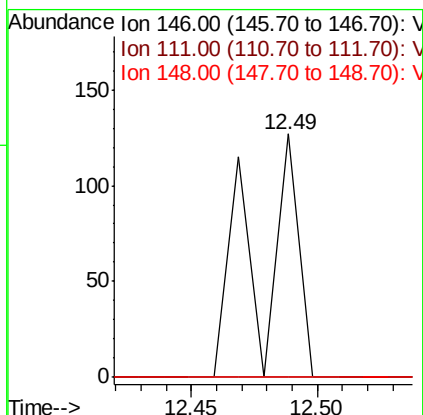
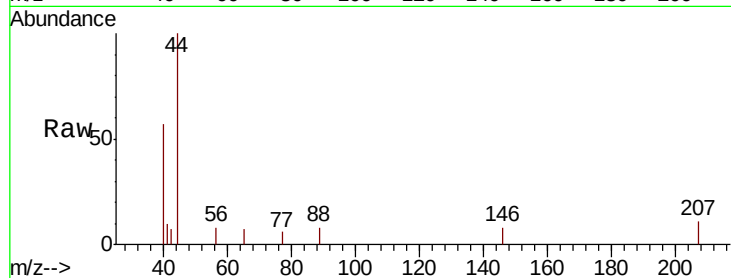




#88
 1,4-Dichlorobenzene
 Concen: 12.204 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. -0.08 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

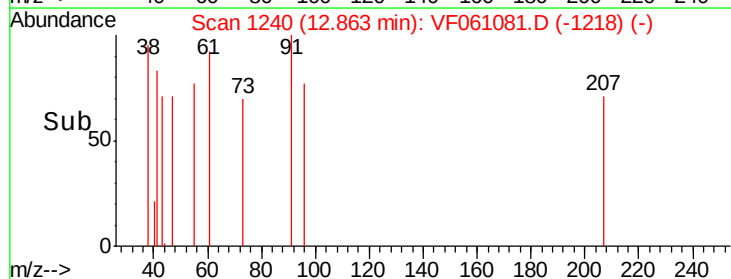
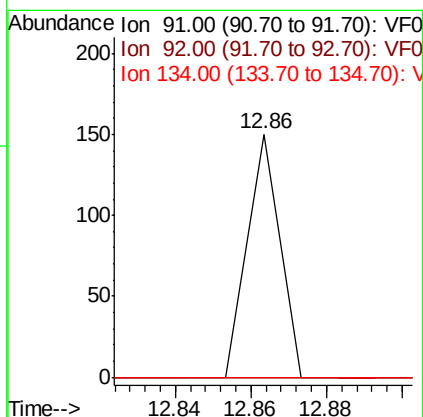
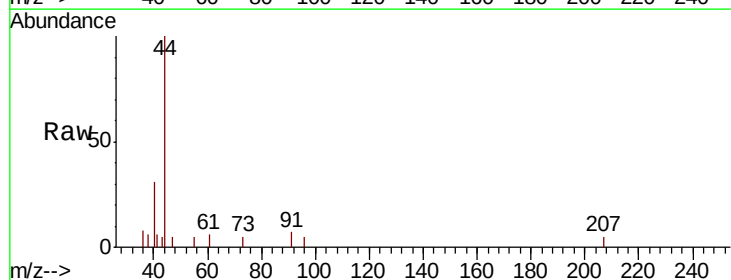
Instrument :
 MSVOA_F
 ClientSampleId :

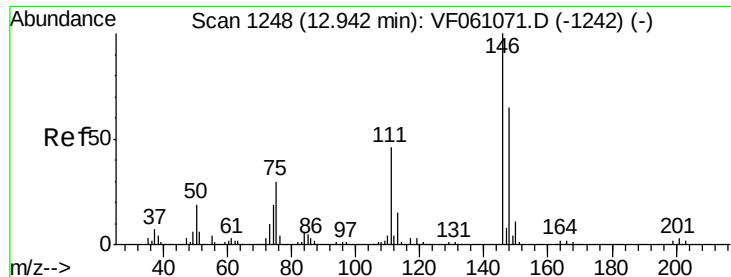
Tot Ion:146 Resp: 143
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.4 58.4#
 148 0.0 32.4 97.0#



#89
 n-Butylbenzene
 Concen: 2.931 ug/l
 RT: 12.86 min Scan# 1240
 Delta R.T. 0.02 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

Tgt Ion: 91 Resp: 89
 Ion Ratio Lower Upper
 91 100
 92 0.0 32.8 98.4#
 134 0.0 13.2 39.5#

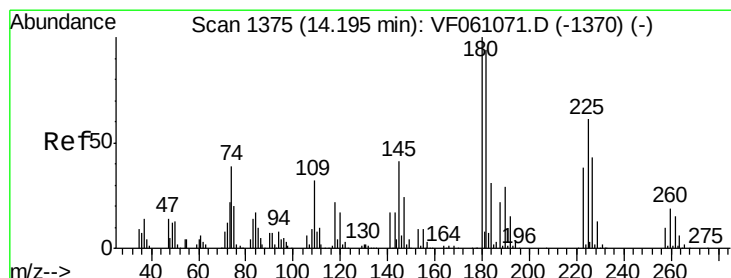
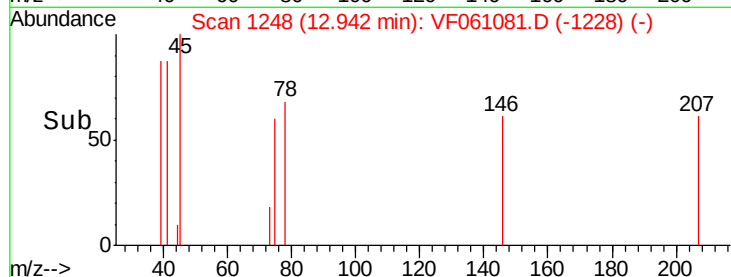
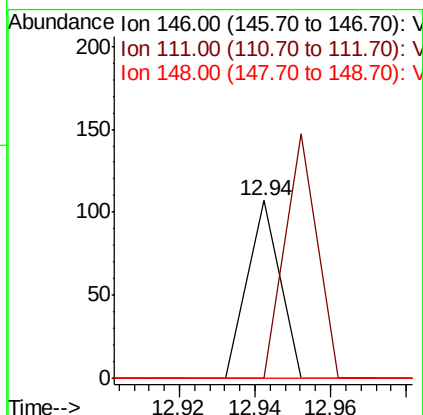
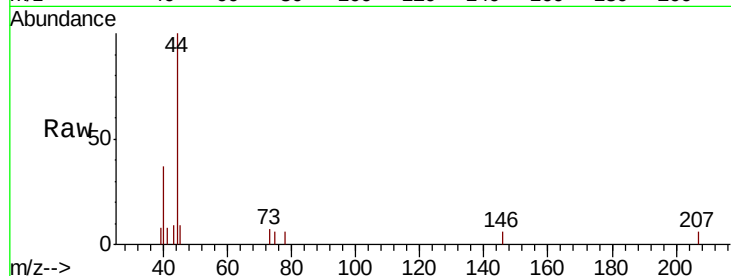




#91
 1,2-Dichlorobenzene
 Concen: 5.522 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

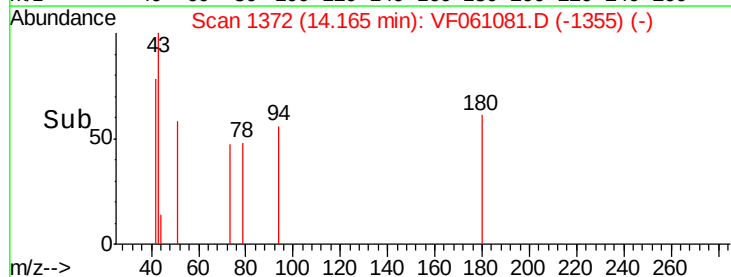
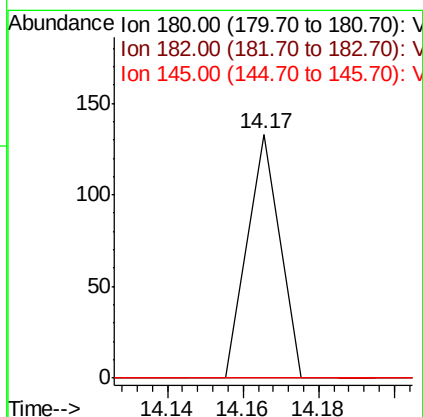
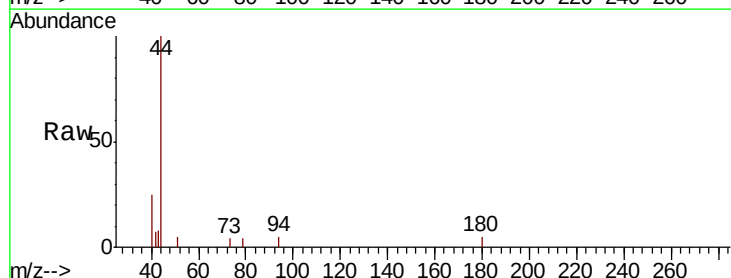
Instrument :
 MSVOA_F
 ClientSampled :

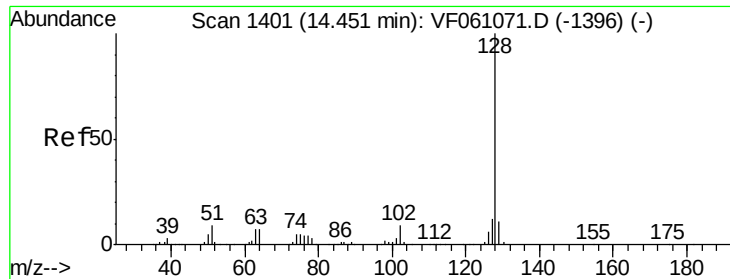
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.2	69.5#
148	0.0	32.4	97.0#



#93
 1,2,4-Trichlorobenzene
 Concen: 9.764 ug/l
 RT: 14.17 min Scan# 1372
 Delta R.T. -0.03 min
 Lab File: VF061081.D
 Acq: 19 Dec 2018 13:21

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.9	140.6#
145	0.0	20.5	61.6#





#95

Naphthalene

Concen: 23.284 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

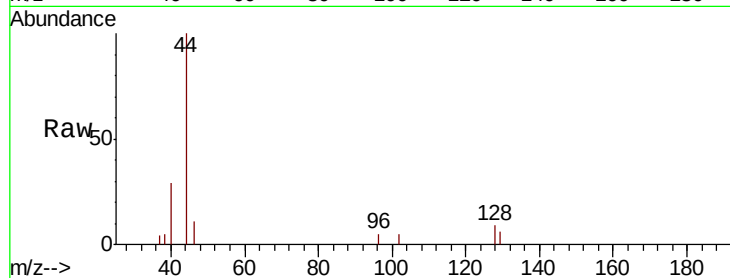
Lab File: VF061081.D

Acq: 19 Dec 2018 13:21

Instrument :

MSVOA_F

ClientSampleId :



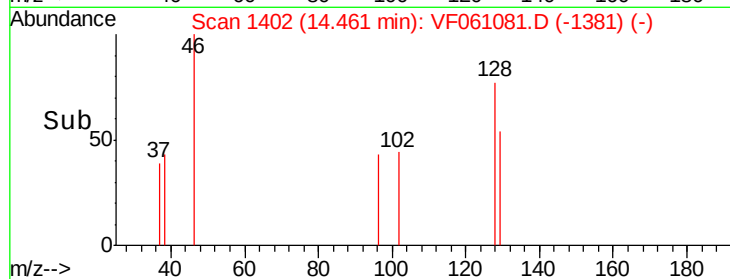
Tot Ion:128 Resp: 344

Ion Ratio Lower Upper

128 100

127 0.0 9.4 14.2#

129 69.9 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

