

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061097.D
 Acq On : 19 Dec 2018 21:00
 Operator : VA/AP
 Sample : J6452-01
 Misc : 8.61g/5mL/MSVOA-F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:25:54 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	4.88	168	137867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	262064	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	75515	50.00	ug/l	0.13
72) 1,4-Dichlorobenzene-d4	12.57	152	40978	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	99421	56.07	ug/l	0.00
Spiked Amount			Recovery	=	112.14%	
35) Dibromofluoromethane	4.12	113	93400	44.49	ug/l	0.00
Spiked Amount			Recovery	=	88.98%	
50) Toluene-d8	7.56	98	204750	34.42	ug/l	0.00
Spiked Amount			Recovery	=	68.84%	
62) 4-Bromofluorobenzene	11.52	95	1174240	428.15	ug/l	0.11
Spiked Amount			Recovery	=	856.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.07	50	4310	2.455	ug/l #	72
4) Vinyl Chloride	1.14	62	2432	1.493	ug/l #	55
11) Tert butyl alcohol	2.58	59	11005	153.795	ug/l #	80
13) Acrolein	2.00	56	8712	168.491	ug/l #	42
14) Allyl chloride	2.05	41	76909	60.811	ug/l #	48
15) Acrylonitrile	2.93	53	9335	56.416	ug/l #	51
16) Acetone	2.24	43	117174	330.549	ug/l	94
17) Carbon Disulfide	1.85	76	13777	3.751	ug/l	96
18) Methyl Acetate	2.38	43	126025	171.838	ug/l #	66
20) Methylene Chloride	2.24	84	3351	Below Cal	#	66
25) 2-Butanone	4.34	43	48653	84.628	ug/l #	84
27) cis-1,2-Dichloroethene	3.48	96	4243	2.132	ug/l	65
29) Tetrahydrofuran	4.02	42	60701	259.415	ug/l #	1
31) Cyclohexane	3.76	56	237194	91.578	ug/l #	66
37) Ethyl Acetate	4.01	43	559893	Below Cal	#	11
39) Methylcyclohexane	5.46	83	506529	178.488	ug/l	99
40) Benzene	4.64	78	5506235	809.420	ug/l	99
41) Methacrylonitrile	4.68	41	173764	260.104	ug/l #	1
43) Isopropyl Acetate	6.83	43	661208	432.899	ug/l #	45
48) Methyl methacrylate	6.83	41	374343	351.072	ug/l #	46
49) 1,4-Dioxane	6.73	88	78	10.081	ug/l #	1
51) 4-Methyl-2-Pentanone	8.30	43	568945	543.134	ug/l #	44
52) Toluene	7.63	92	101380	22.514	ug/l	97
55) 1,1,2-Trichloroethane	8.44	97	68859	51.009	ug/l #	1
56) Ethyl methacrylate	8.69	69	570250	390.384	ug/l	93
58) 2-Chloroethyl Vinyl ether	7.31	63	1356	4.833	ug/l	99
59) 2-Hexanone	9.45	43	132433	174.819	ug/l #	41
65) Chlorobenzene	9.91	112	19708160	12633.146	ug/l #	54
67) Ethyl Benzene	9.97	91	645409	227.089	ug/l	99
68) m/p-Xylenes	10.16	106	74027	74.012	ug/l	82
69) o-Xylene	10.74	106	259803	234.206	ug/l	84
70) Styrene	10.81	104	11771	4.239	ug/l #	33
73) Isopropylbenzene	11.16	105	353197	100.019	ug/l	94
74) N-amyl acetate	11.44	43	572552	730.291	ug/l #	27

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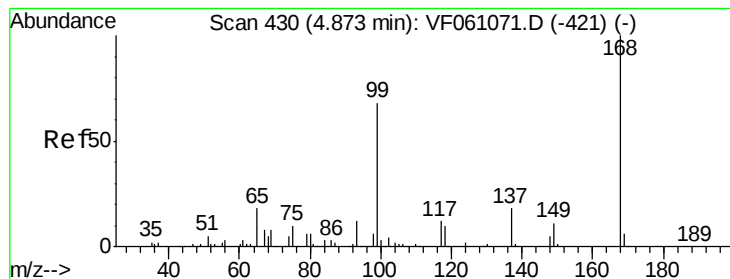
Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:25:54 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)

75) 1,1,2,2-Tetrachloroethane	11.71	83	724147	1235.579	ug/l #	37
76) 1,2,3-Trichloropropane	11.75	75	7887	18.083	ug/l #	1
77) Bromobenzene	11.51	156	1466	1.929	ug/l #	1
78) n-propylbenzene	11.63	91	923189	Below Cal		96
79) 2-Chlorotoluene	11.75	91	128062	52.864	ug/l	96
80) 1,3,5-Trimethylbenzene	11.85	105	27652	9.510	ug/l	85
81) trans-1,4-Dichloro-2-buten	11.86	75	984	5.250	ug/l #	1
82) 4-Chlorotoluene	12.04	91	173429	69.206	ug/l	78
83) tert-Butylbenzene	12.15	119	76459	25.553	ug/l #	51
84) 1,2,4-Trimethylbenzene	12.23	105	1313236	452.895	ug/l	94
85) sec-Butylbenzene	12.34	105	588563	150.729	ug/l #	72
86) p-Isopropyltoluene	12.49	119	321797	99.285	ug/l #	86
87) 1,3-Dichlorobenzene	12.50	146	448813	399.367	ug/l #	74
88) 1,4-Dichlorobenzene	12.59	146	680755	487.698	ug/l #	78
89) n-Butylbenzene	12.86	91	487574	Below Cal		92
90) Hexachloroethane	12.95	117	19019	23.751	ug/l #	27
91) 1,2-Dichlorobenzene	12.96	146	31509	23.186	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	13.68	75	10019	93.159	ug/l #	14
93) 1,2,4-Trichlorobenzene	14.05	180	1292	1.341	ug/l	90
95) Naphthalene	14.46	128	584874	332.334	ug/l #	93
96) 1,2,3-Trichlorobenzene	14.65	180	17297	19.414	ug/l #	41

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

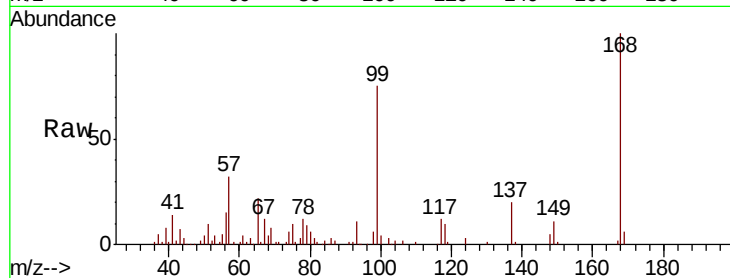
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 137867

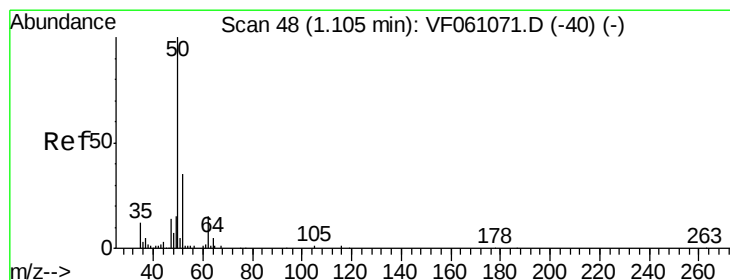
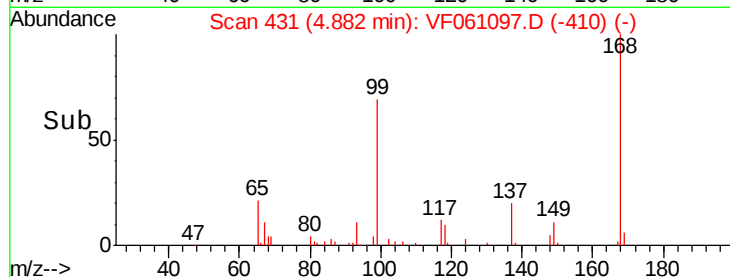
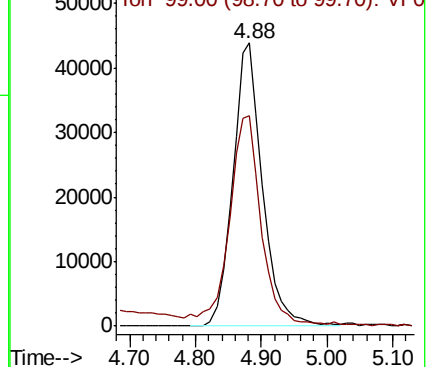
Ion Ratio Lower Upper

168 100

99 74.6 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 2.455 ug/l

RT: 1.07 min Scan# 45

Delta R.T. -0.03 min

Lab File: VF061097.D

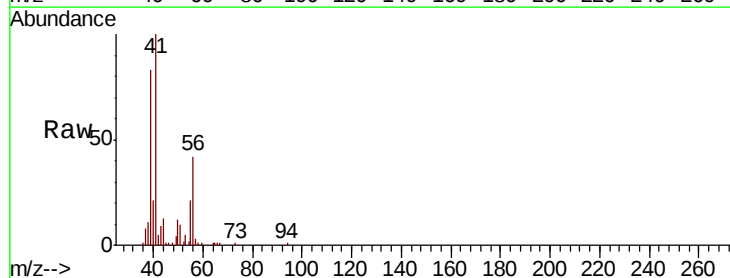
Acq: 19 Dec 2018 21:00

Tgt Ion: 50 Resp: 4310

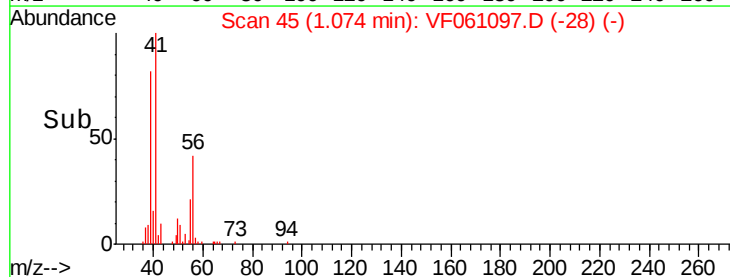
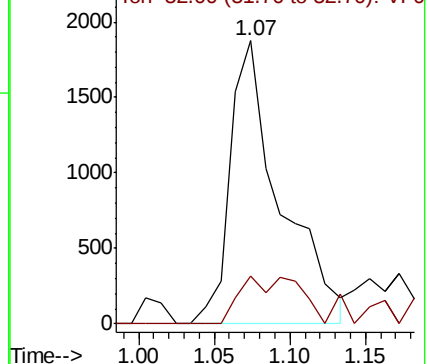
Ion Ratio Lower Upper

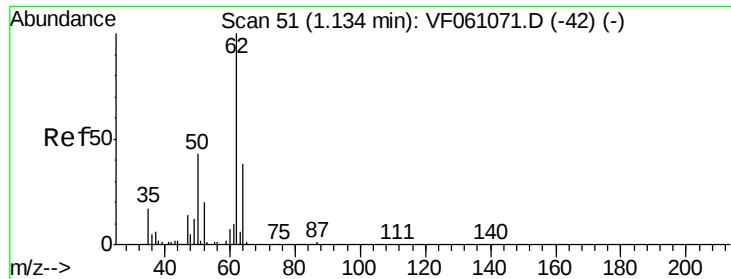
50 100

52 16.9 26.3 39.5#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: 1.493 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

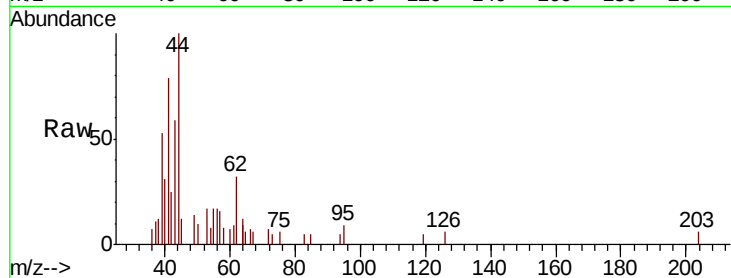
ClientSampleId :

Tot Ion: 62 Resp: 2432

Ion Ratio Lower Upper

62 100

64 65.2 30.4 45.6#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

800

600

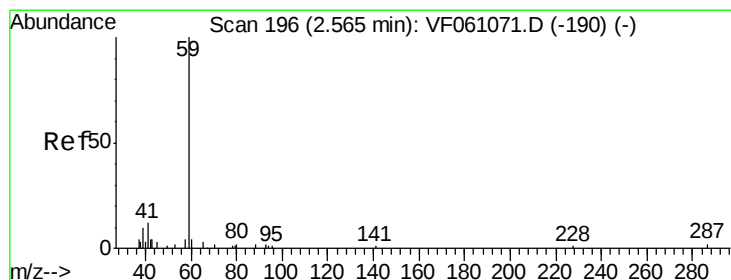
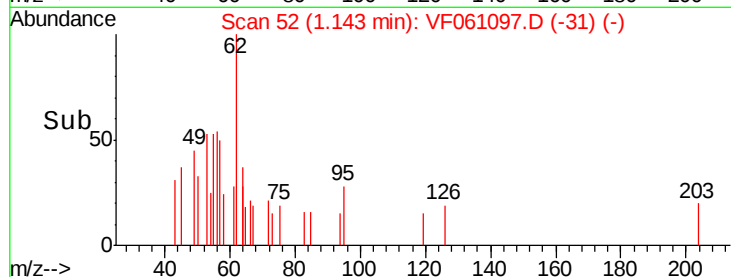
400

200

0

1.05 1.10 1.15 1.20 1.25

Time-->



#11

Tert butyl alcohol

Concen: 153.795 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.02 min

Lab File: VF061097.D

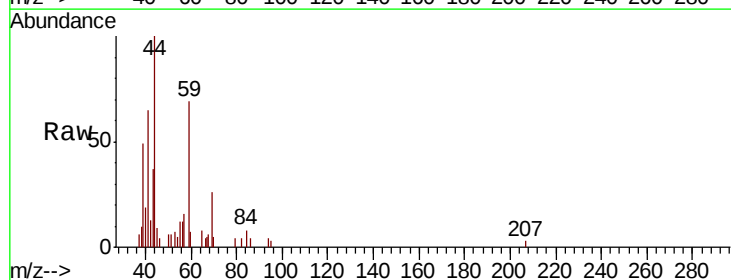
Acq: 19 Dec 2018 21:00

Tgt Ion: 59 Resp: 11005

Ion Ratio Lower Upper

59 100

57 22.4 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

12000

10000

8000

6000

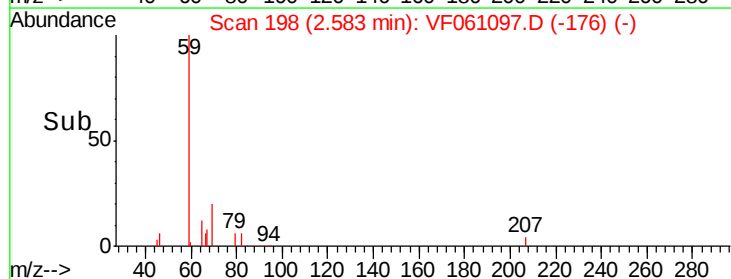
4000

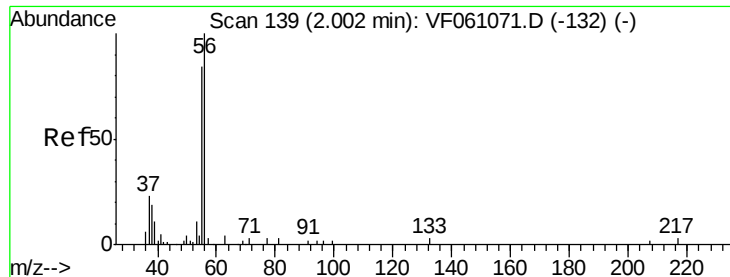
2000

0

2.50 2.55 2.60 2.65 2.70

Time-->

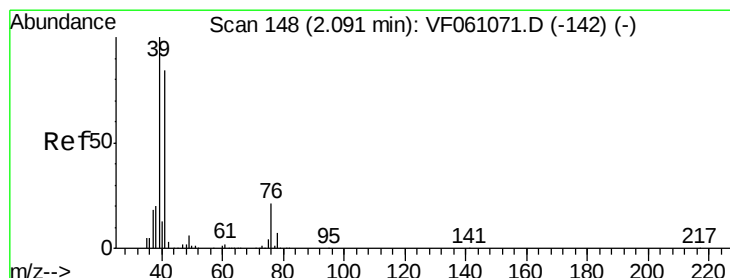
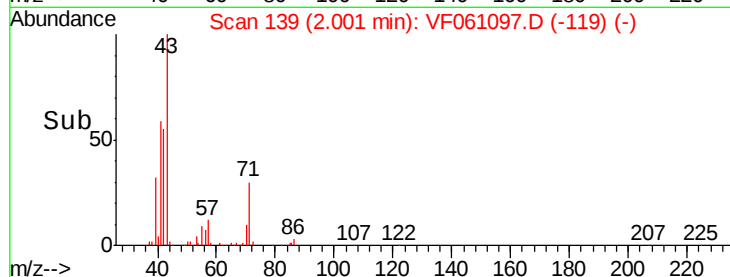
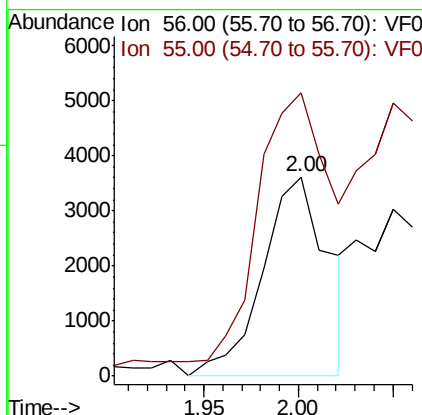
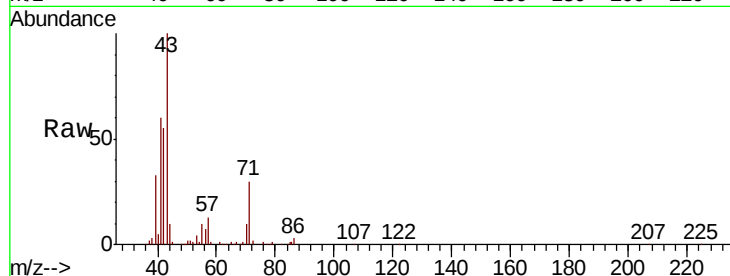




#13
Acrolein
Concen: 168.491 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.00 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

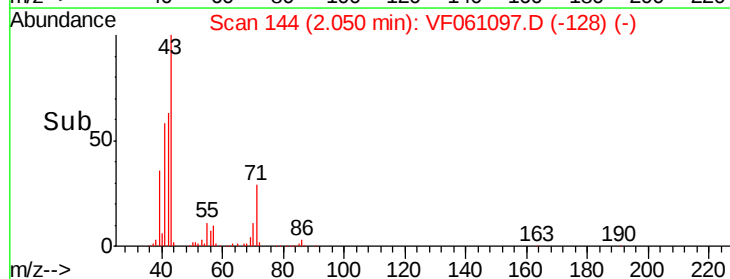
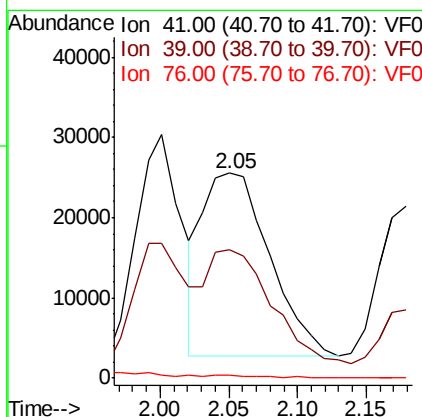
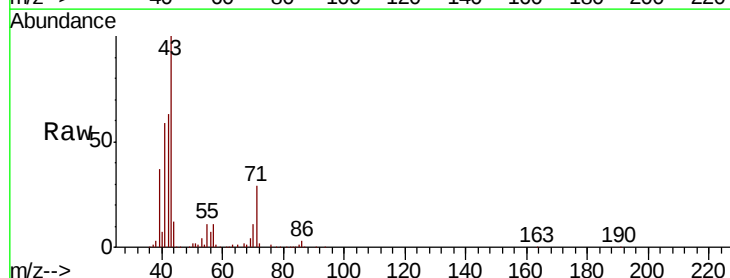
Instrument :
MSVOA_F
ClientSampled :

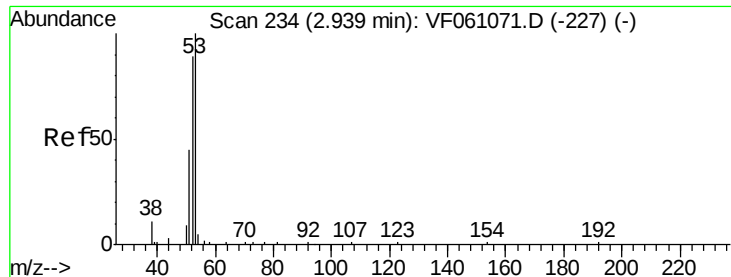
Tot Ion: 56 Resp: 8712
Ion Ratio Lower Upper
56 100
55 141.9 70.2 105.2#



#14
Allyl chloride
Concen: 60.811 ug/l
RT: 2.05 min Scan# 144
Delta R.T. -0.04 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

Tgt Ion: 41 Resp: 76909
Ion Ratio Lower Upper
41 100
39 62.8 96.4 144.6#
76 1.2 25.4 38.0#





#15

Acrylonitrile

Concen: 56.416 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

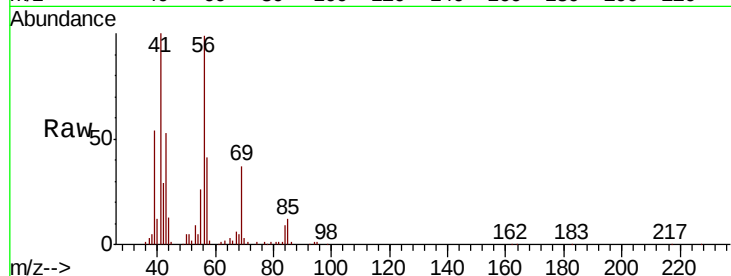
Tot Ion: 53 Resp: 9335

Ion Ratio Lower Upper

53 100

52 23.8 71.3 106.9#

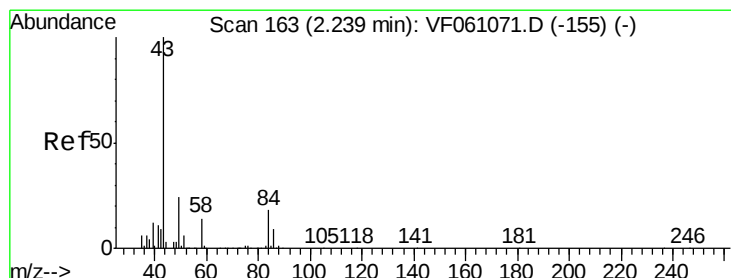
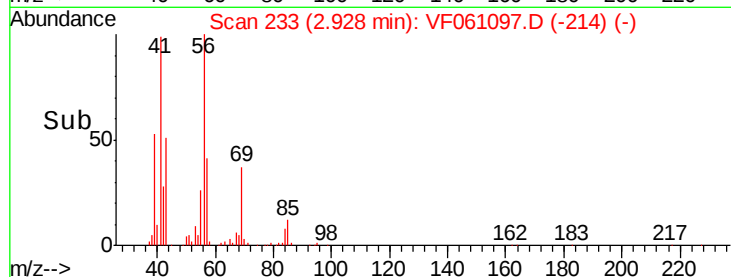
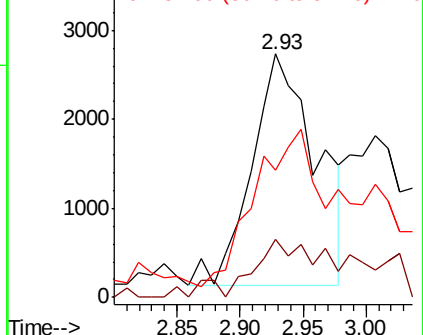
51 52.3 36.8 55.2



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 330.549 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061097.D

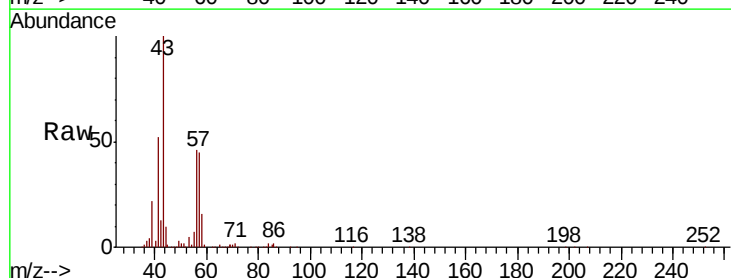
Acq: 19 Dec 2018 21:00

Tgt Ion: 43 Resp: 117174

Ion Ratio Lower Upper

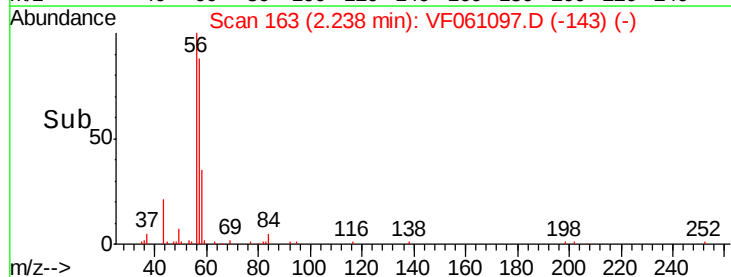
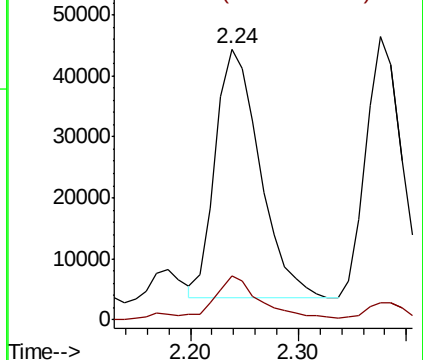
43 100

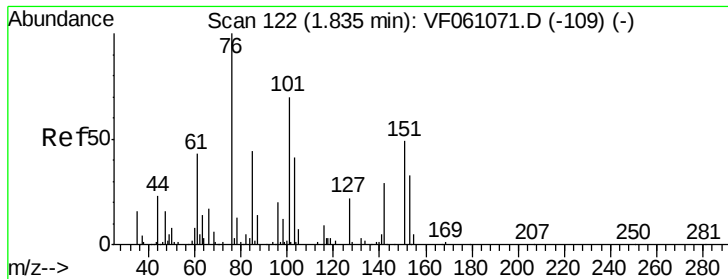
58 16.2 11.1 16.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

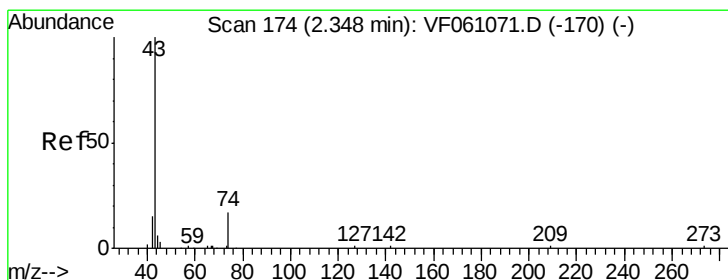
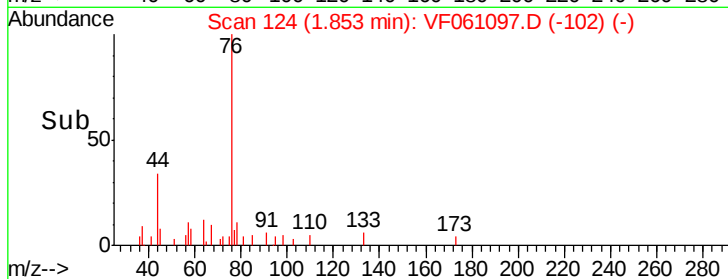
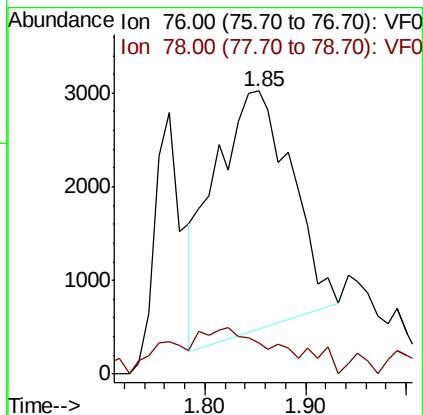
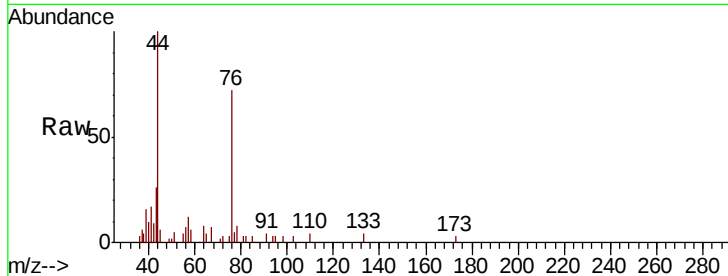




#17
Carbon Disulfide
Concen: 3.751 ug/l
RT: 1.85 min Scan# 124
Delta R.T. 0.02 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

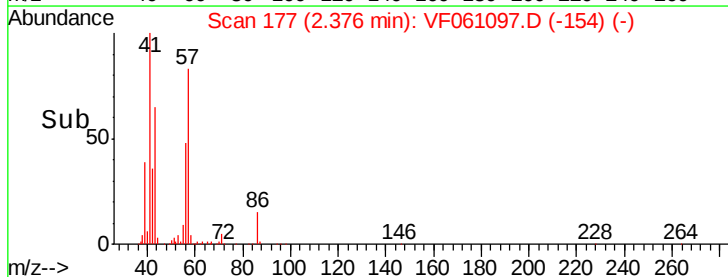
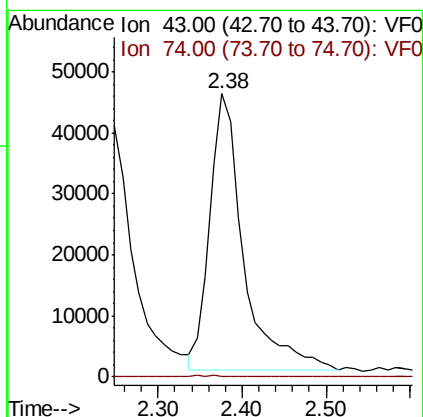
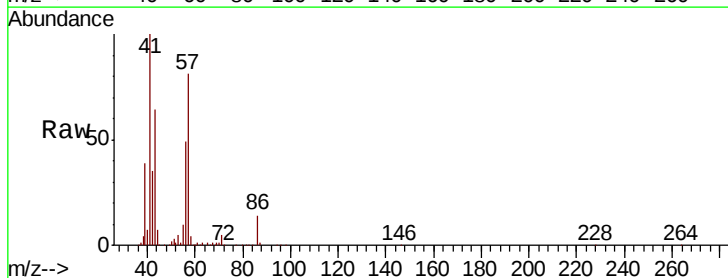
Instrument :
MSVOA_F
ClientSampleId :

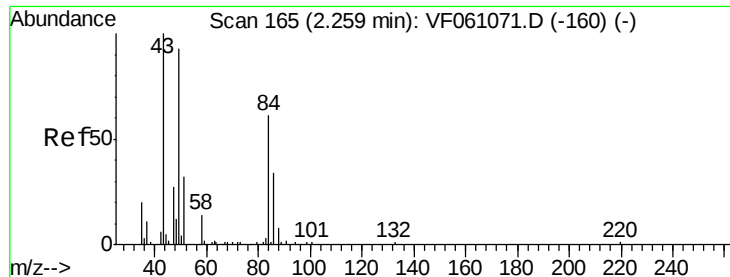
Tot Ion: 76 Resp: 13777
Ion Ratio Lower Upper
76 100
78 11.2 10.2 15.4



#18
Methyl Acetate
Concen: 171.838 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.03 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

Tgt Ion: 43 Resp: 126025
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.24 min Scan# 163

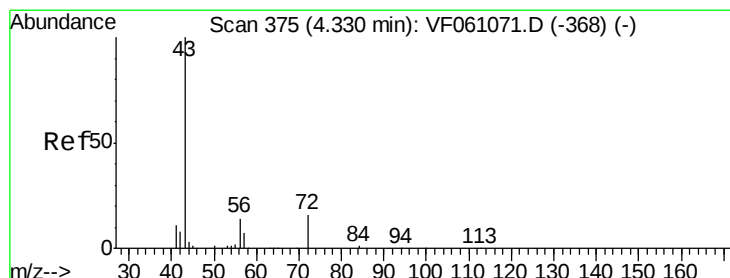
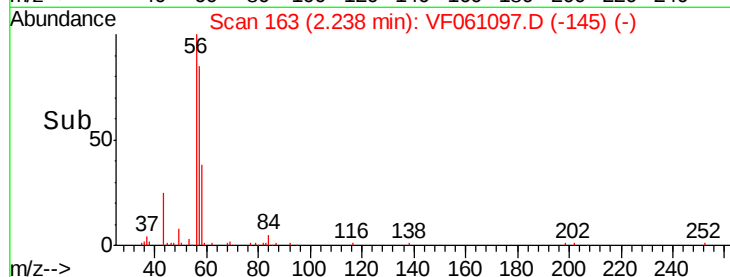
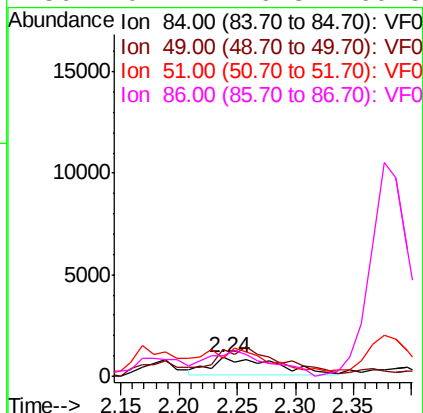
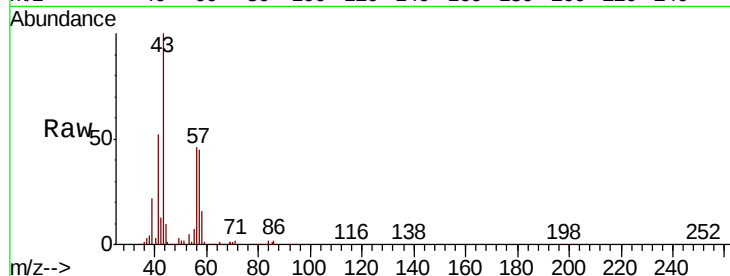
Delta R.T. -0.02 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	84	Resp:	3351
Ion	Ratio	Lower	Upper
84	100		
49	143.5	129.4	194.2
51	97.5	44.0	66.0#
86	107.2	46.3	69.5#



#25

2-Butanone

Concen: 84.628 ug/l

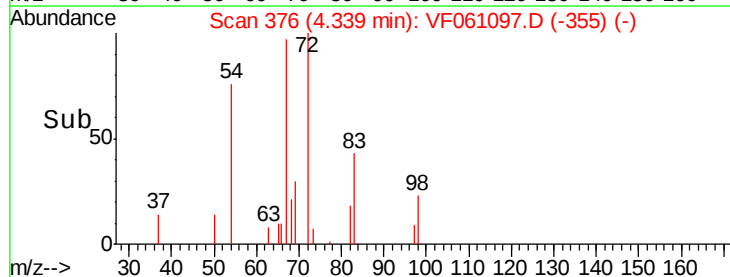
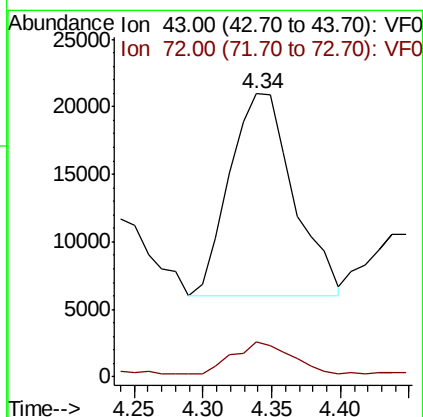
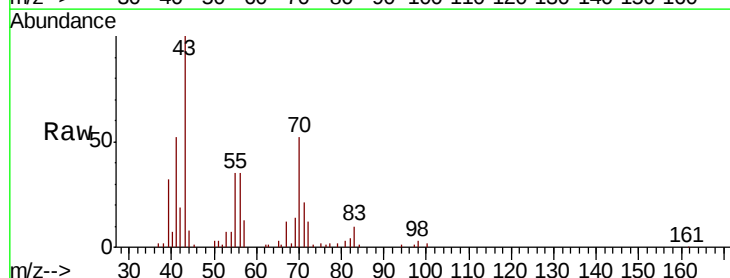
RT: 4.34 min Scan# 376

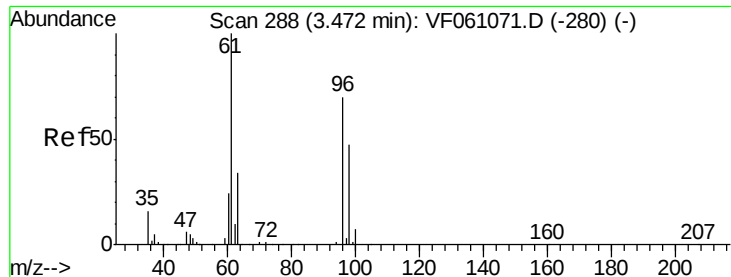
Delta R.T. 0.01 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Tgt Ion:	43	Resp:	48653
Ion	Ratio	Lower	Upper
43	100		
72	12.4	15.6	23.4#



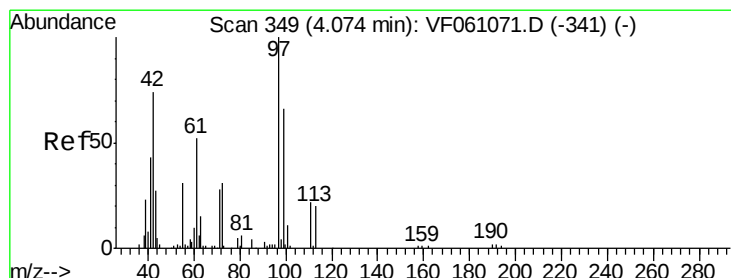
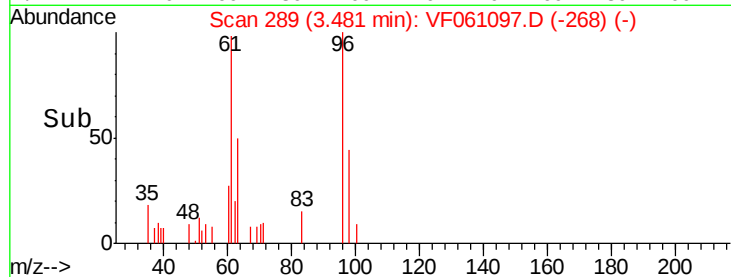
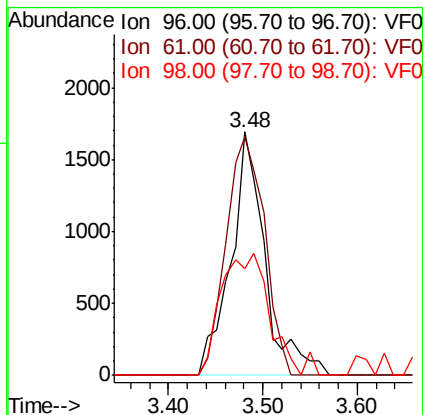
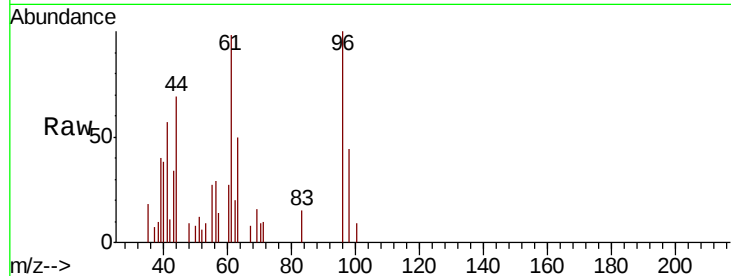


#27

cis-1,2-Dichloroethene
 Concen: 2.132 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. 0.01 min
 Lab File: VF061097.D
 Acq: 19 Dec 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :

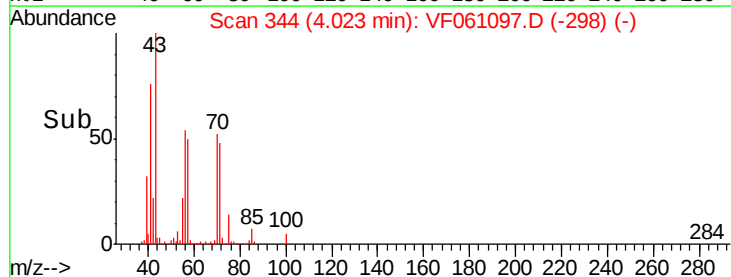
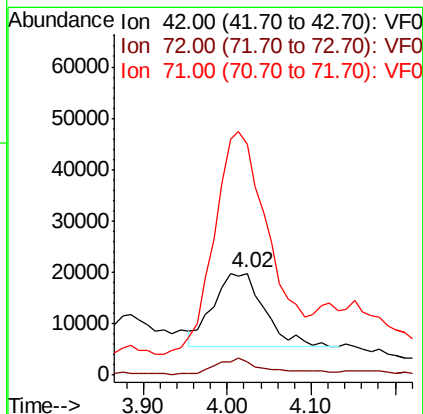
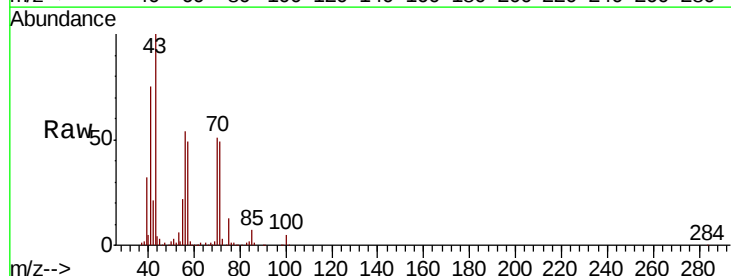
Tot Ion	96.00	Resp:	4243
Ion	Ratio	Lower	Upper
96	100		
61	98.2	0.0	287.8
98	43.5	0.0	134.2

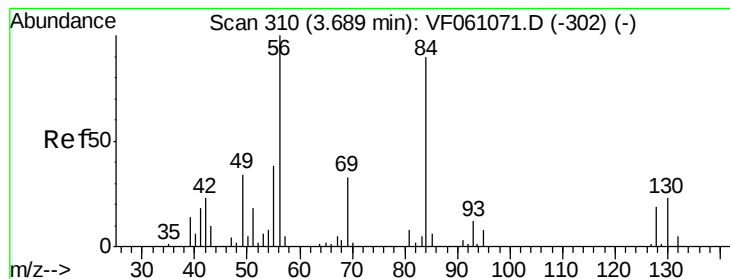


#29

Tetrahydrofuran
 Concen: 259.415 ug/l
 RT: 4.02 min Scan# 344
 Delta R.T. -0.05 min
 Lab File: VF061097.D
 Acq: 19 Dec 2018 21:00

Tgt Ion	42	Resp:	60701
Ion	Ratio	Lower	Upper
42	100		
72	21.4	31.8	47.8#
71	320.7	29.7	44.5#





#31

Cyclohexane

Concen: 91.578 ug/l

RT: 3.76 min Scan# 317

Delta R.T. 0.07 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :
MSVOA_F
ClientSampleId :

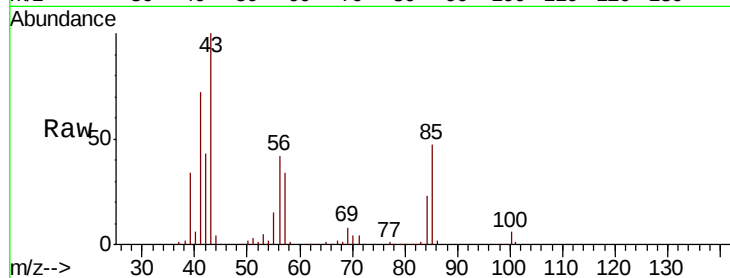
Tot Ion: 56 Resp: 237194

Ion Ratio Lower Upper

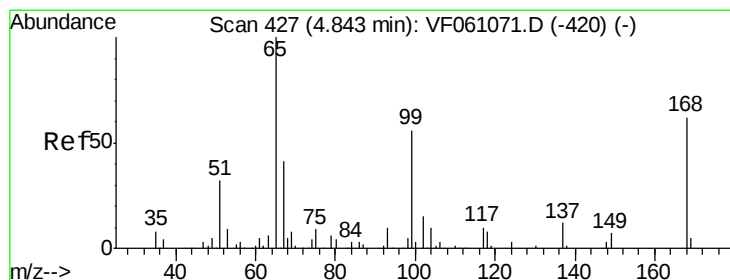
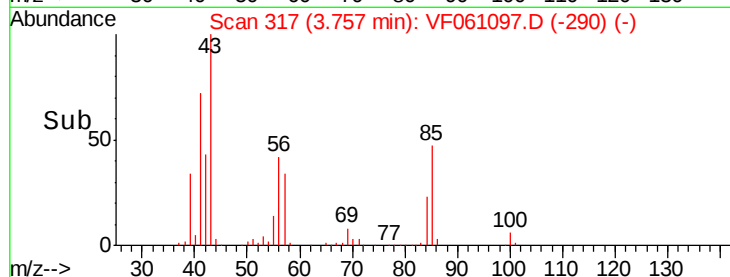
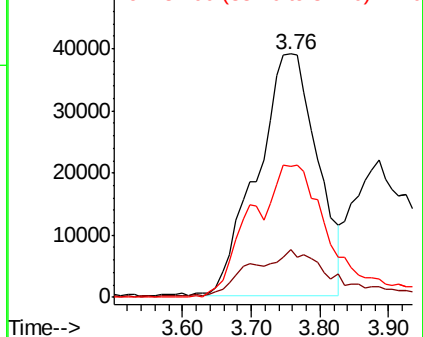
56 100

69 19.5 26.0 39.0#

84 54.0 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



#33

1,2-Dichloroethane-d4

Concen: 56.068 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061097.D

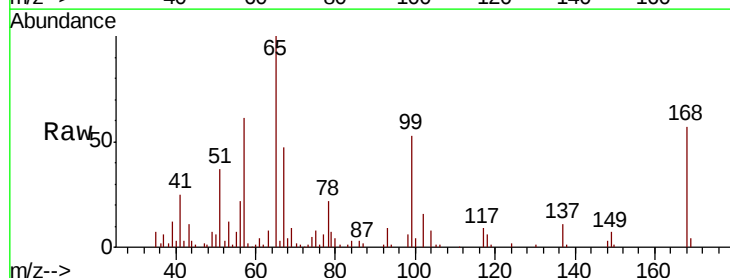
Acq: 19 Dec 2018 21:00

Tgt Ion: 65 Resp: 99421

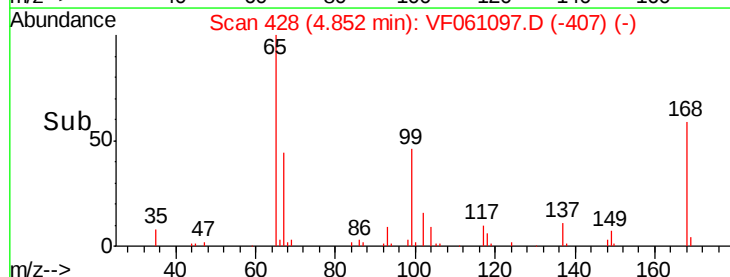
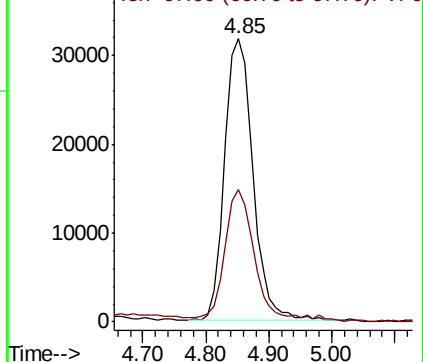
Ion Ratio Lower Upper

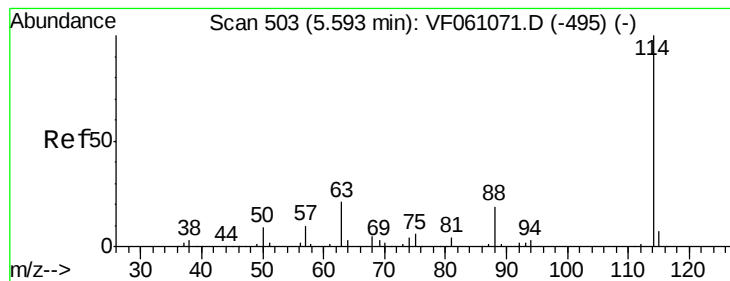
65 100

67 46.6 0.0 94.6



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: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampled :

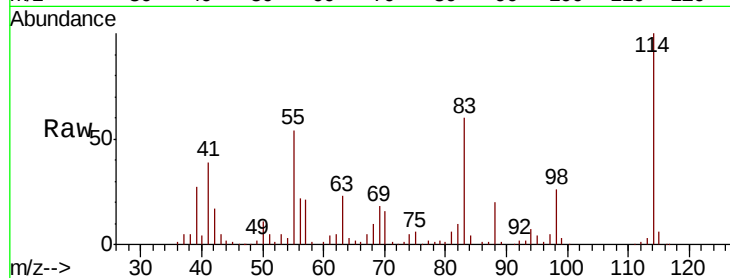
Tot Ion:114 Resp: 262064

Ion Ratio Lower Upper

114 100

63 23.3 0.0 41.6

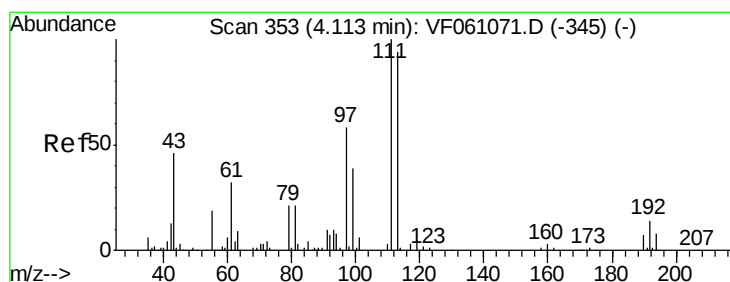
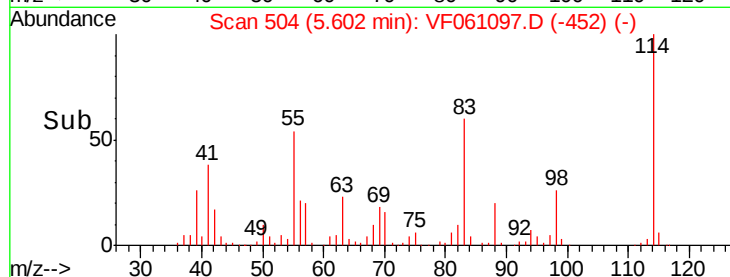
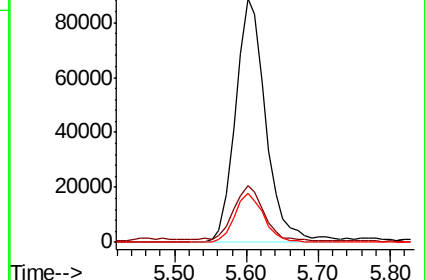
88 20.2 0.0 38.0



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: 44.491 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

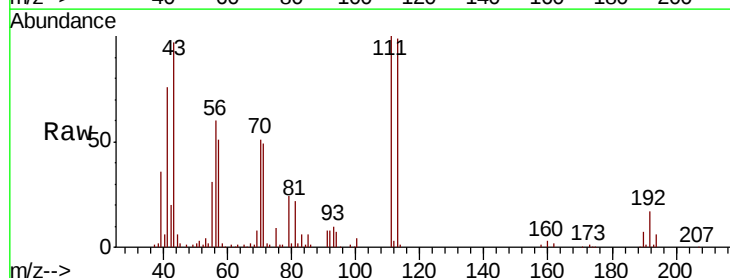
Tgt Ion:113 Resp: 93400

Ion Ratio Lower Upper

113 100

111 101.3 85.2 127.8

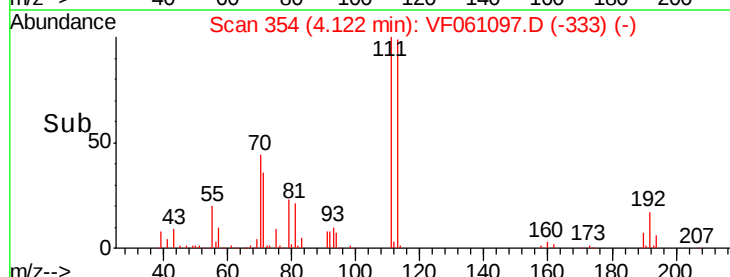
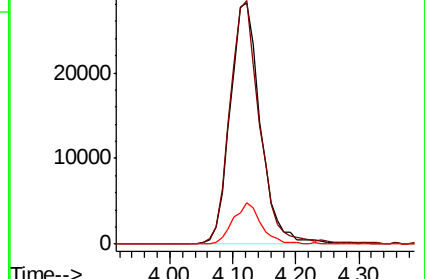
192 17.1 12.8 19.2

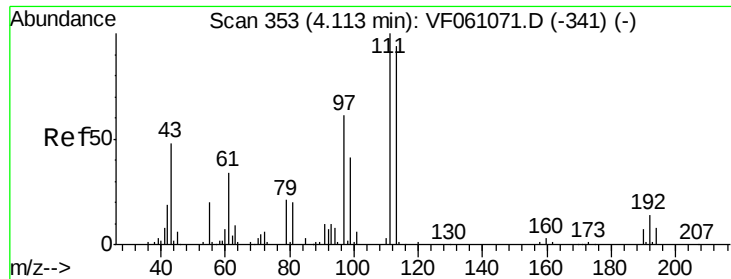


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

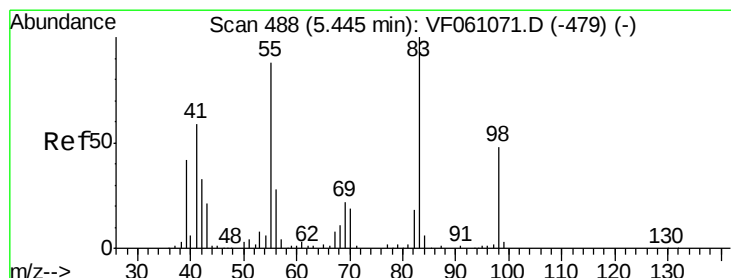
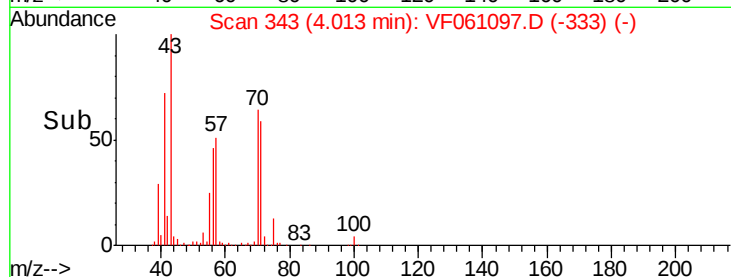
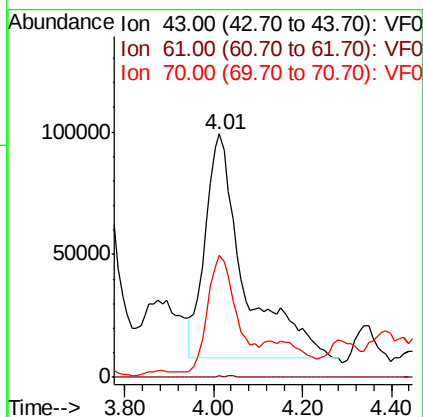
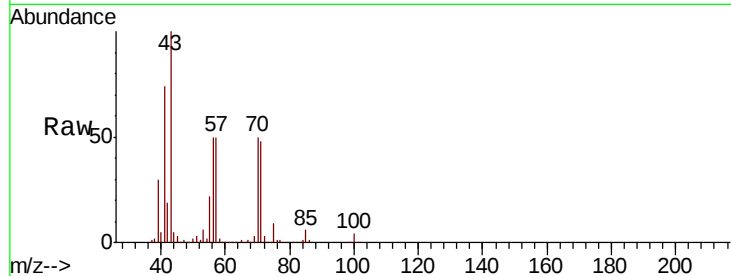




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.01 min Scan# 343
Delta R.T. -0.10 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

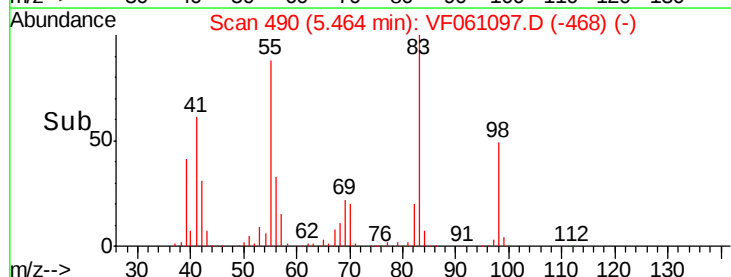
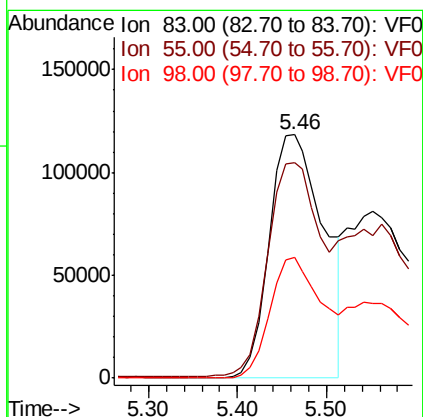
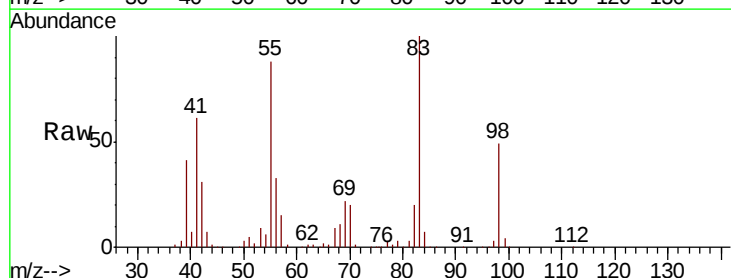
Instrument :
MSVOA_F
ClientSampled :

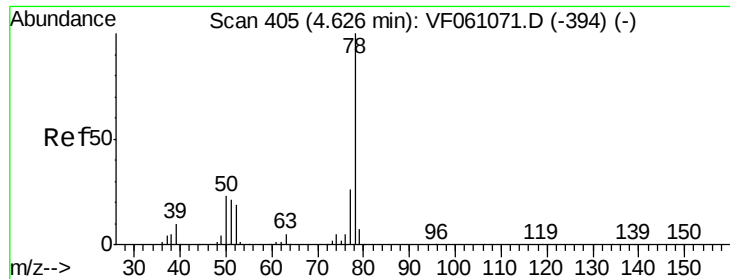
Tot Ion: 43 Resp: 559893
Ion Ratio Lower Upper
43 100
61 0.4 56.6 84.8#
70 50.0 6.3 9.5#



#39
Methylcyclohexane
Concen: 178.488 ug/l
RT: 5.46 min Scan# 490
Delta R.T. 0.02 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

Tgt Ion: 83 Resp: 506529
Ion Ratio Lower Upper
83 100
55 88.3 70.6 105.8
98 49.5 38.5 57.7





#40

Benzene

Concen: 809.420 ug/l

RT: 4.64 min Scan# 407

Delta R.T. 0.02 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

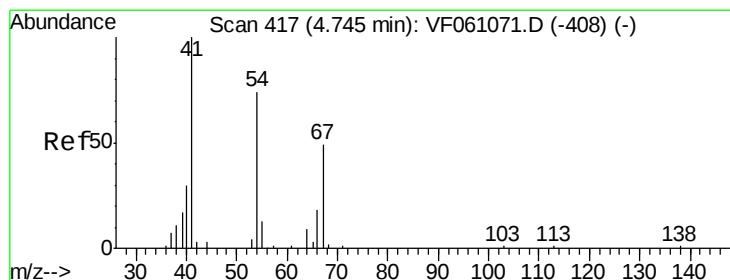
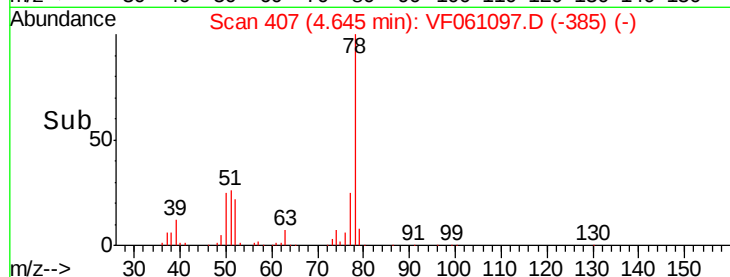
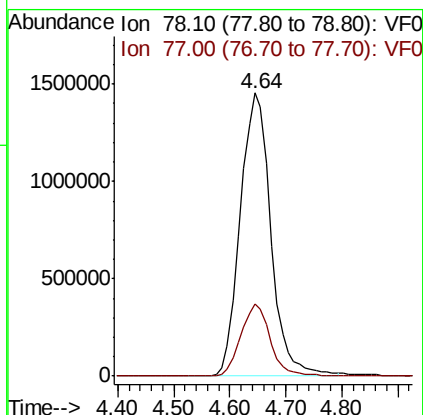
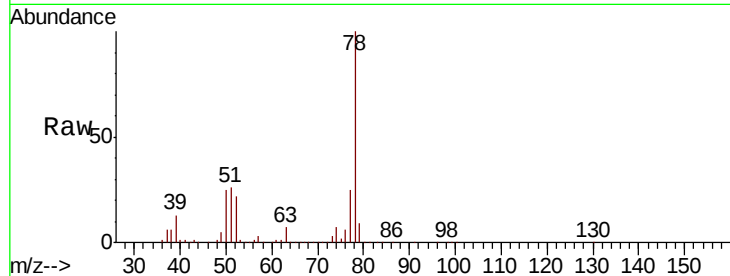
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 78 Resp: 5506235

Ion Ratio Lower Upper

78 100

77 25.3 20.7 31.1



#41

Methacrylonitrile

Concen: 260.104 ug/l

RT: 4.68 min Scan# 411

Delta R.T. -0.06 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Tgt Ion: 41 Resp: 173764

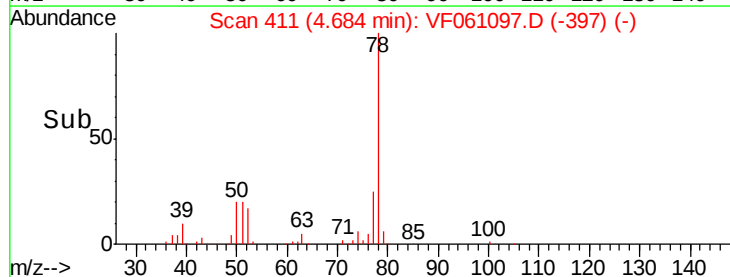
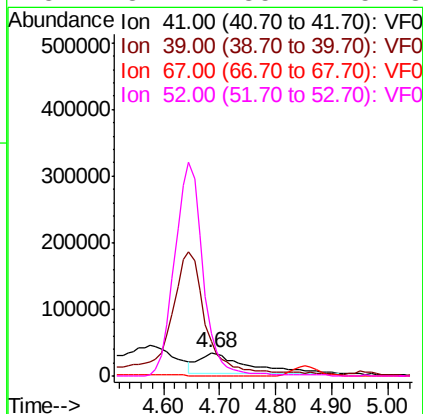
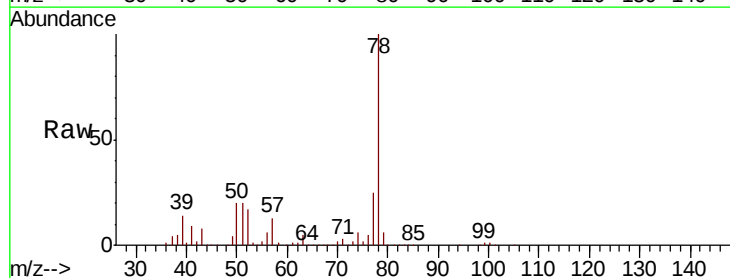
Ion Ratio Lower Upper

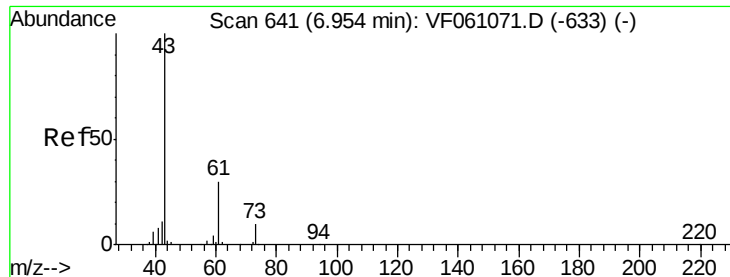
41 100

39 149.3 45.7 68.5#

67 2.8 38.9 58.3#

52 182.4 35.2 52.8#



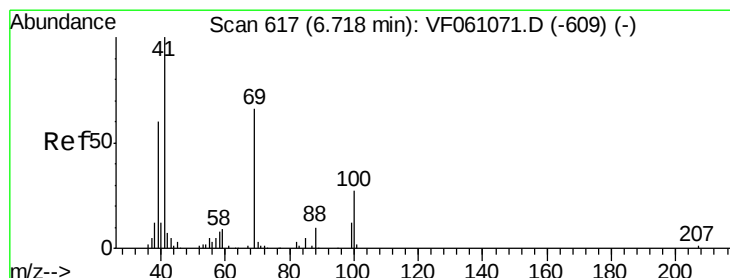
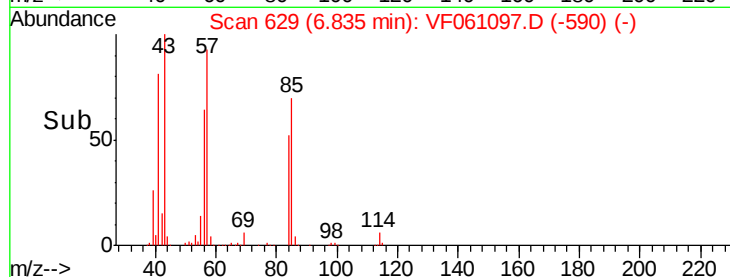
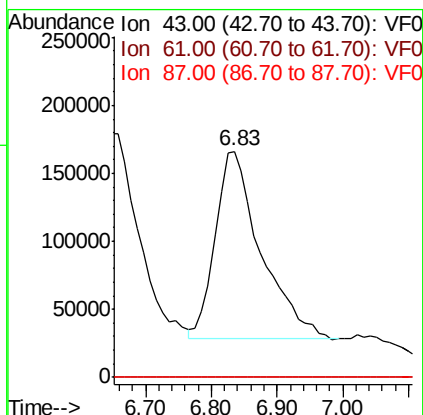
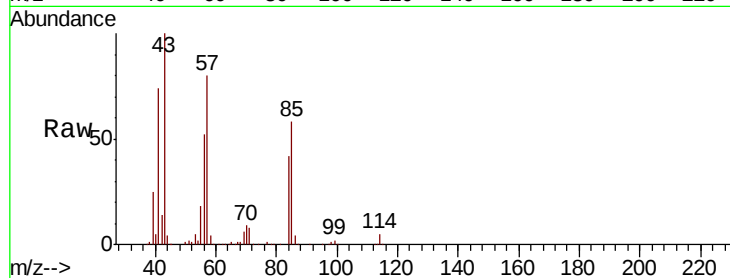


#43

Isopropyl Acetate
 Concen: 432.899 ug/l
 RT: 6.83 min Scan# 629
 Delta R.T. -0.12 min
 Lab File: VF061097.D
 Acq: 19 Dec 2018 21:00

Instrument :
 MSVOA_F
 ClientSampled :

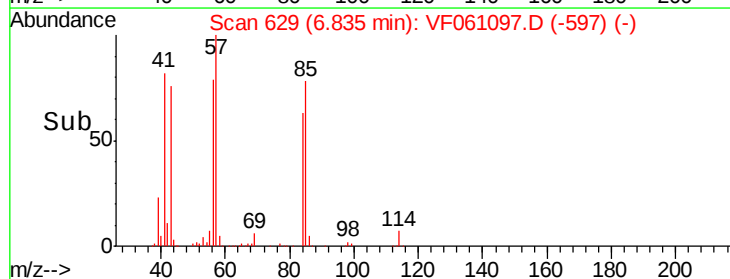
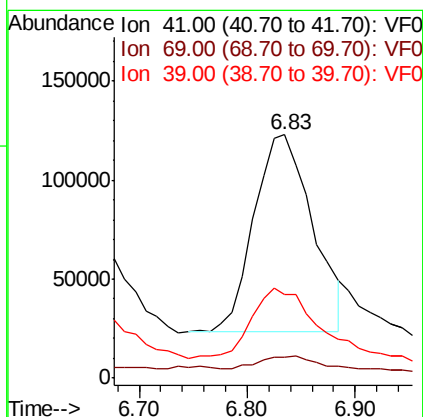
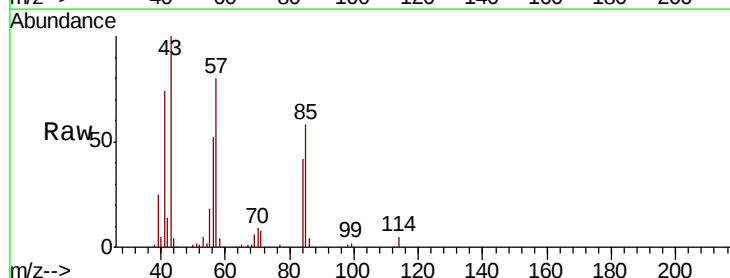
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.1	23.8	35.8#
87	0.1	0.0	0.0#

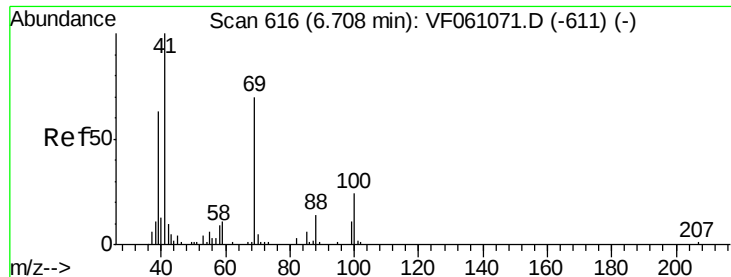


#48

Methyl methacrylate
 Concen: 351.072 ug/l
 RT: 6.83 min Scan# 629
 Delta R.T. 0.12 min
 Lab File: VF061097.D
 Acq: 19 Dec 2018 21:00

Tgt Ion	Ratio	Lower	Upper
41	100		
69	8.6	52.7	79.1#
39	34.4	47.8	71.6#

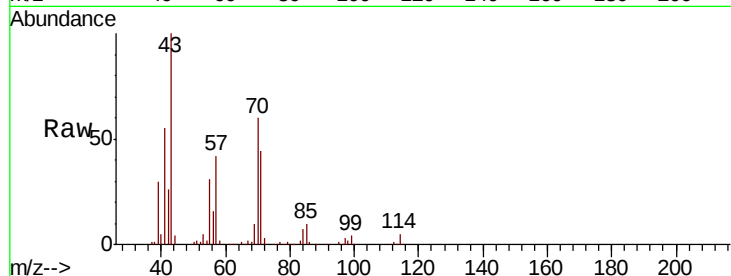




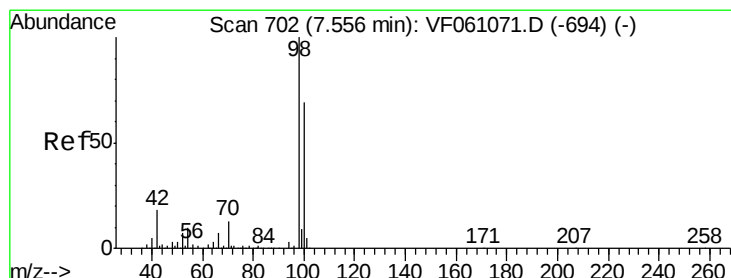
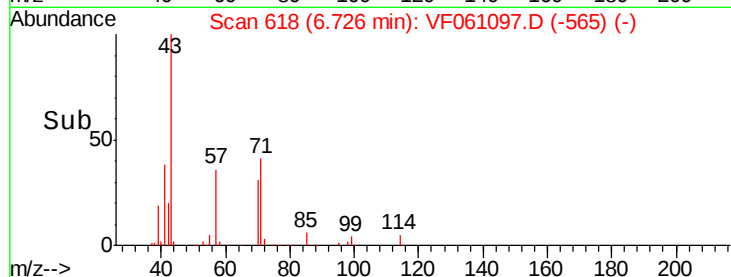
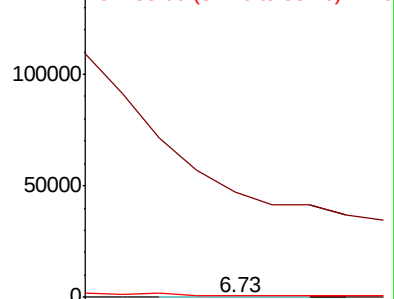
#49
1,4-Dioxane
Concen: 10.081 ug/l
RT: 6.73 min Scan# 618
Delta R.T. 0.02 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 88 Resp: 78
Ion Ratio Lower Upper
88 100
43 36067.2 33.3 49.9#
58 690.1 53.2 79.8#

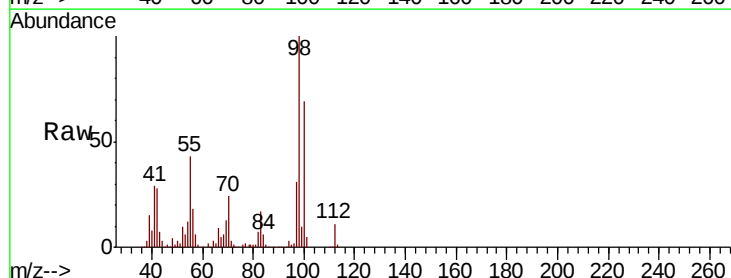


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

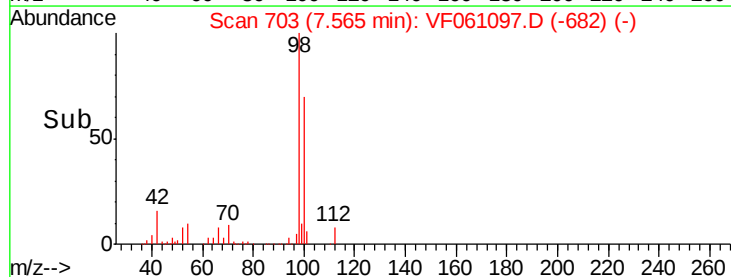
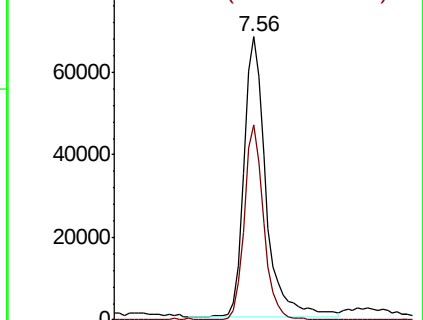


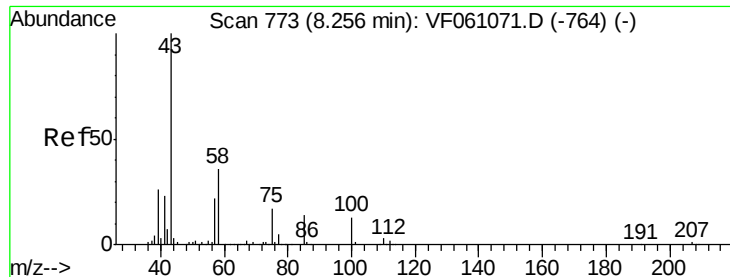
#50
Toluene-d8
Concen: 34.417 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.01 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

Tgt Ion: 98 Resp: 204750
Ion Ratio Lower Upper
98 100
100 68.7 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: 543.134 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.05 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

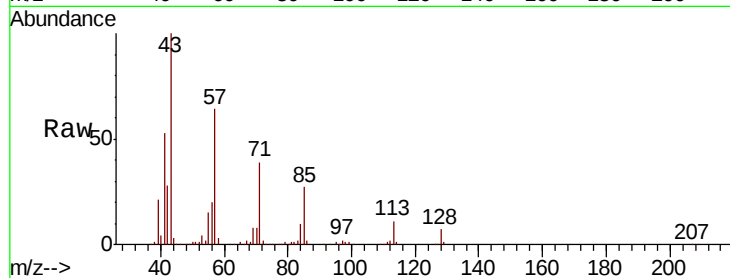
ClientSampled :

Tot Ion: 43 Resp: 568945

Ion Ratio Lower Upper

43 100

58 3.1 29.1 43.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.30

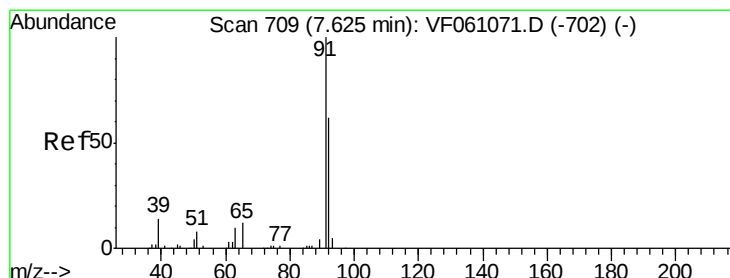
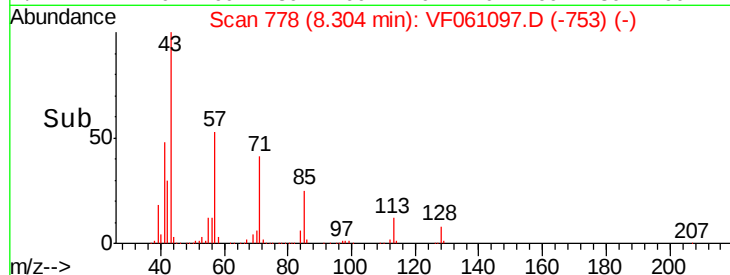
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 22.514 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.01 min

Lab File: VF061097.D

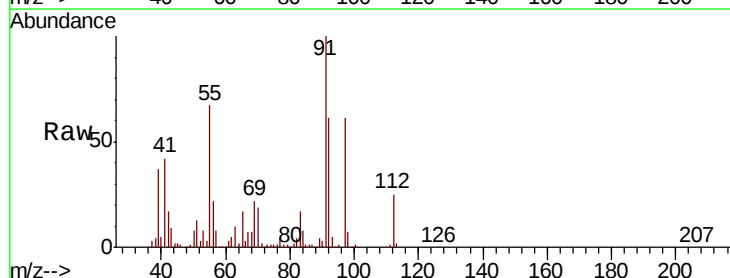
Acq: 19 Dec 2018 21:00

Tgt Ion: 92 Resp: 101380

Ion Ratio Lower Upper

92 100

91 164.4 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.63

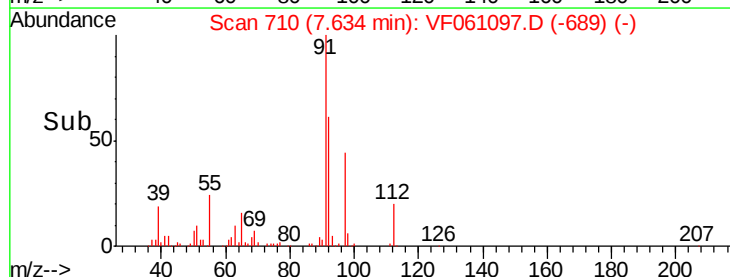
60000

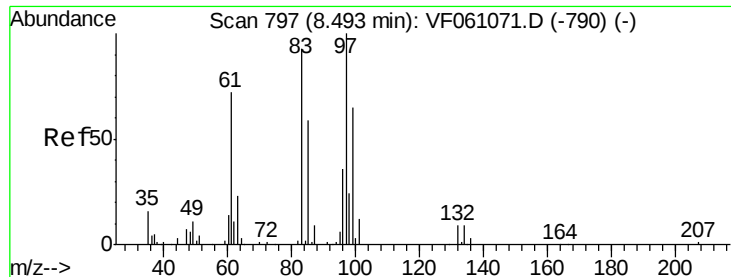
40000

20000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 51.009 ug/l

RT: 8.44 min Scan# 792

Delta R.T. -0.05 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 68859

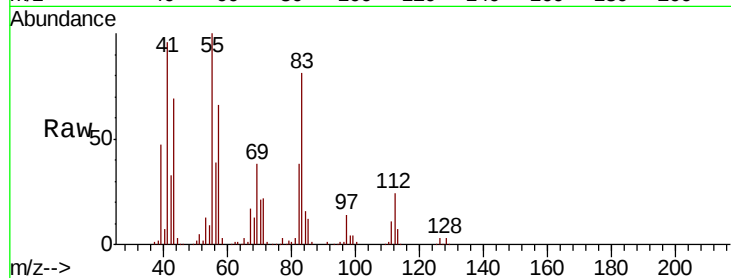
Ion Ratio Lower Upper

97 100

83 570.1 75.0 112.4#

85 86.2 47.5 71.3#

99 26.4 51.9 77.9#



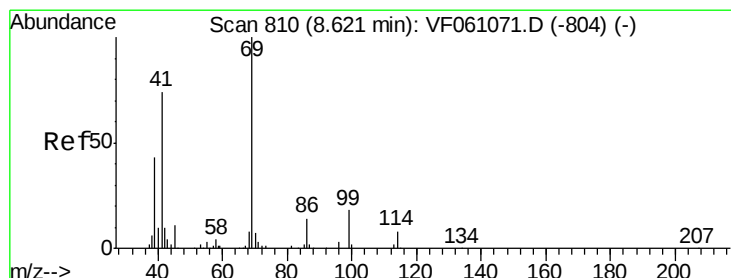
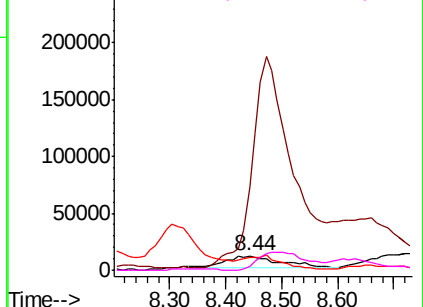
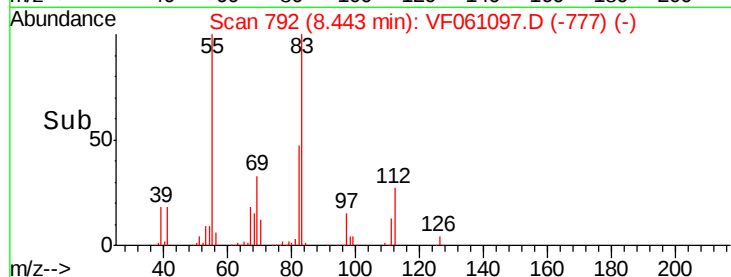
Abundance

Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 390.384 ug/l

RT: 8.69 min Scan# 817

Delta R.T. 0.07 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

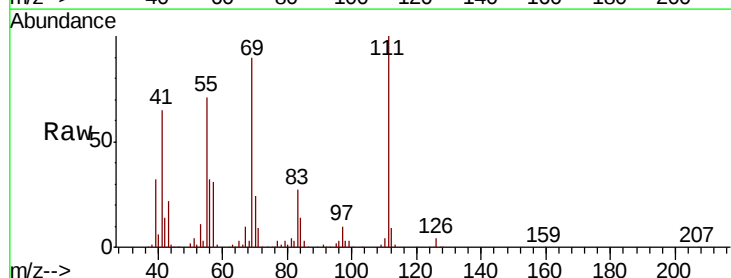
Tgt Ion: 69 Resp: 570250

Ion Ratio Lower Upper

69 100

41 71.6 59.7 89.5

39 35.4 35.0 52.6

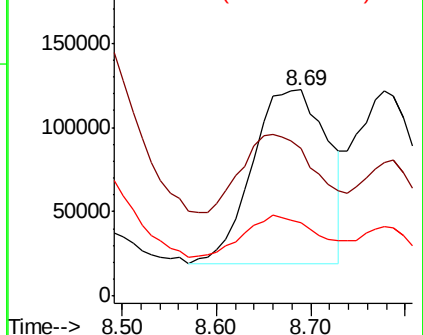
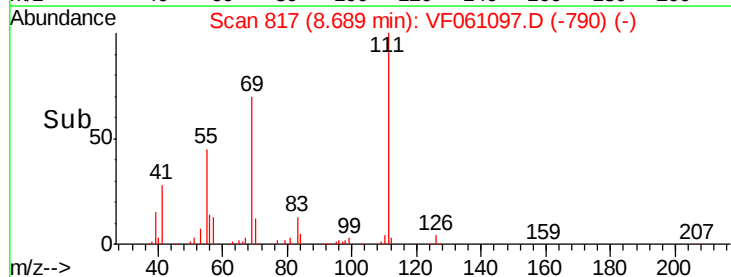


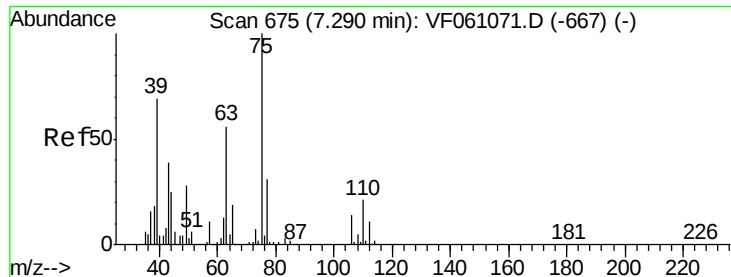
Abundance

Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

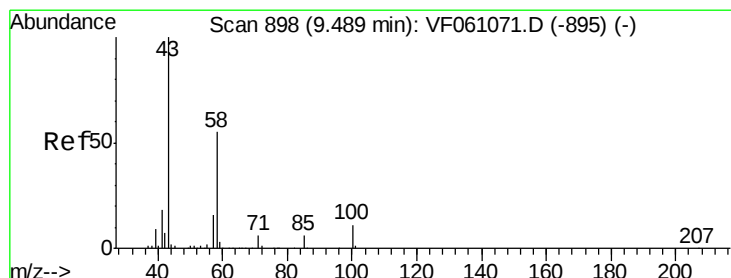
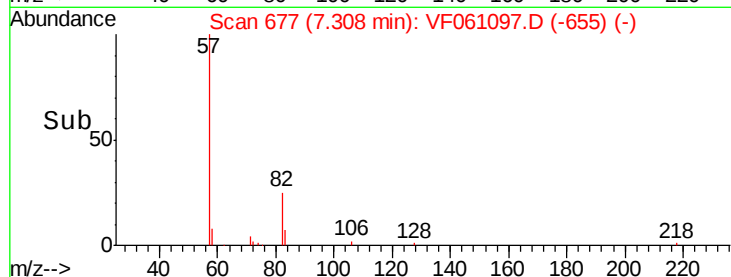
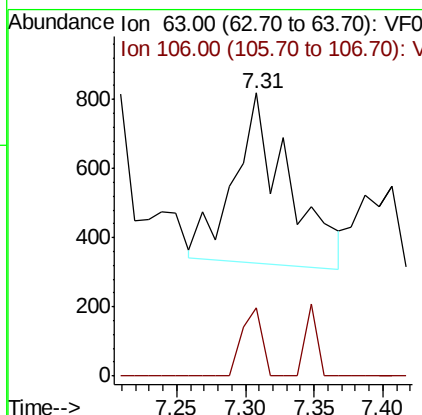
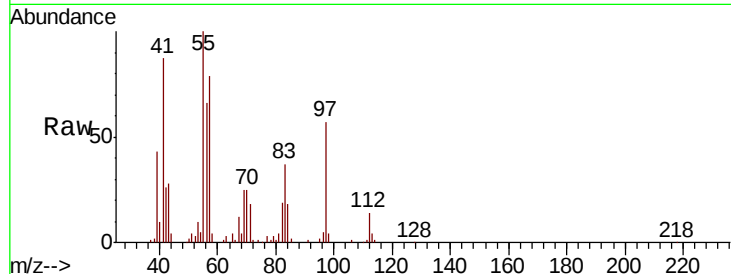




#58
 2-Chloroethyl Vinyl ether
 Concen: 4.833 ug/l
 RT: 7.31 min Scan# 677
 Delta R.T. 0.02 min
 Lab File: VF061097.D
 Acq: 19 Dec 2018 21:00

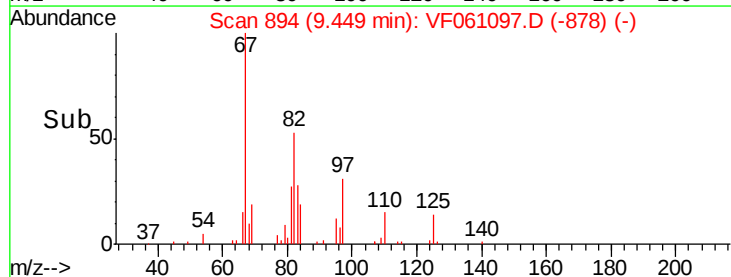
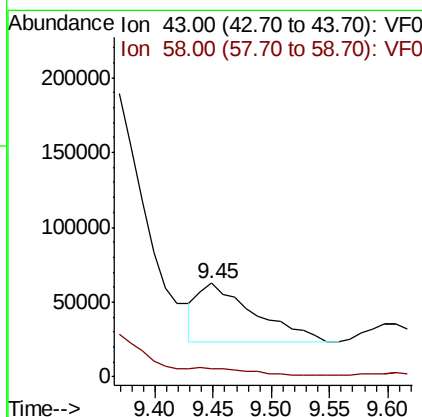
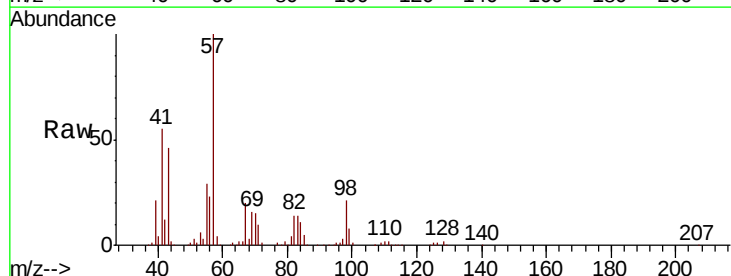
Instrument :
 MSVOA_F
 ClientSampleId :

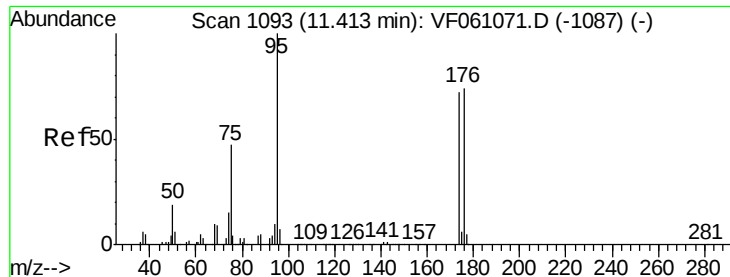
Tot Ion: 63 Resp: 1356
 Ion Ratio Lower Upper
 63 100
 106 24.1 19.8 29.8



#59
 2-Hexanone
 Concen: 174.819 ug/l
 RT: 9.45 min Scan# 894
 Delta R.T. -0.04 min
 Lab File: VF061097.D
 Acq: 19 Dec 2018 21:00

Tgt Ion: 43 Resp: 132433
 Ion Ratio Lower Upper
 43 100
 58 9.4 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 428.145 ug/l

RT: 11.52 min Scan# 1104

Delta R.T. 0.11 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampled :

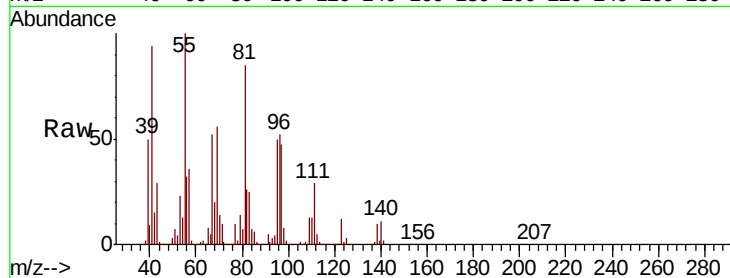
Tot Ion: 95 Resp: 1174240

Ion Ratio Lower Upper

95 100

174 0.0 0.0 143.8

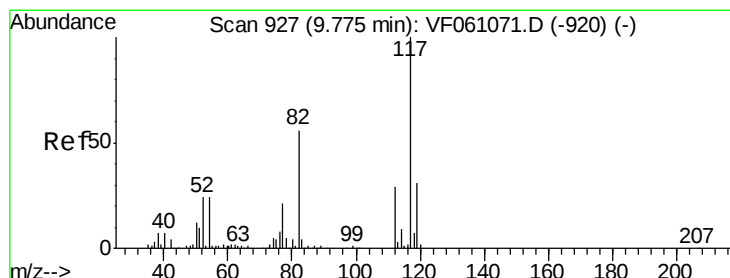
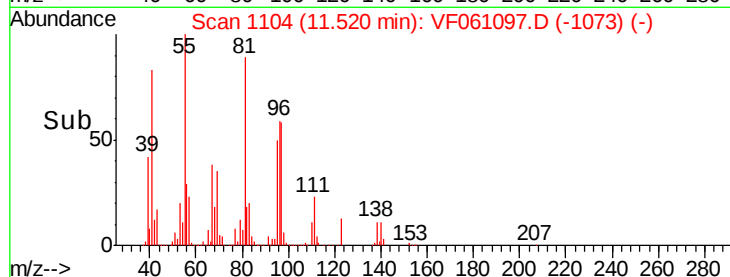
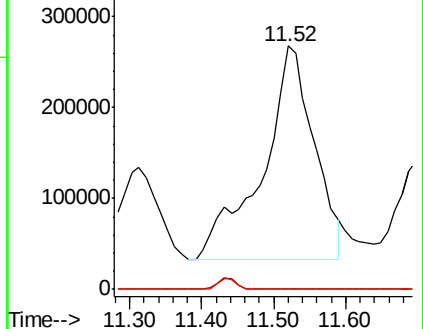
176 0.0 0.0 147.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.13 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

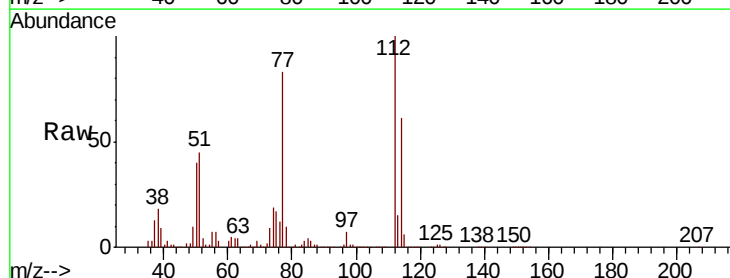
Tgt Ion: 117 Resp: 75515

Ion Ratio Lower Upper

117 100

82 103.3 45.0 67.4#

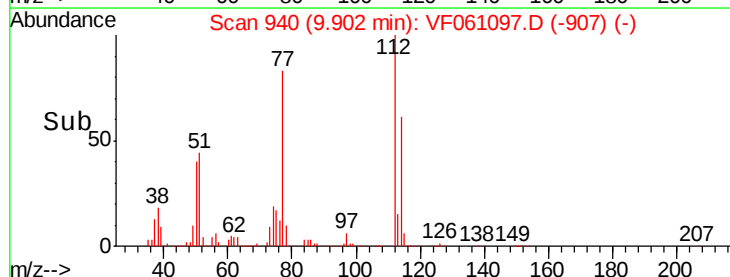
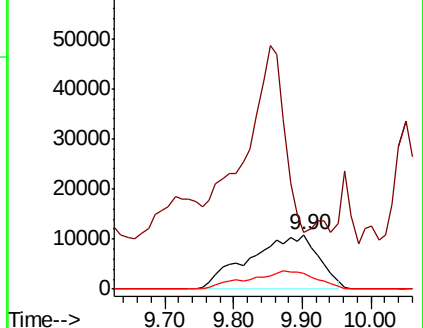
119 29.0 24.8 37.2

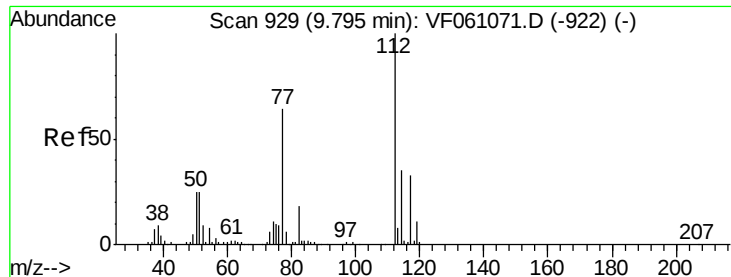


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

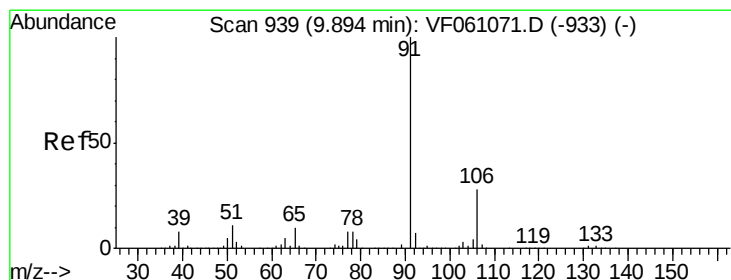
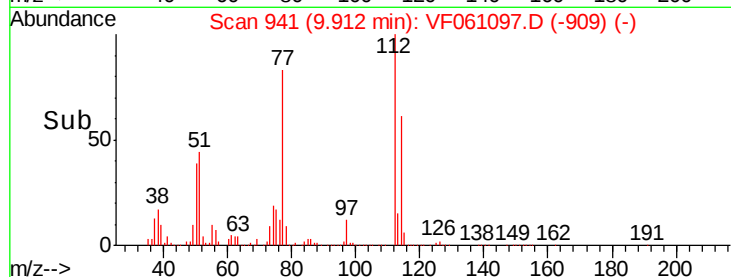
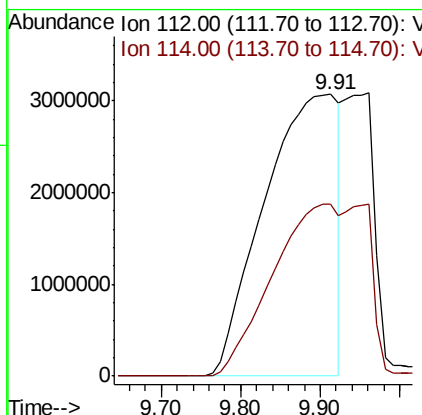
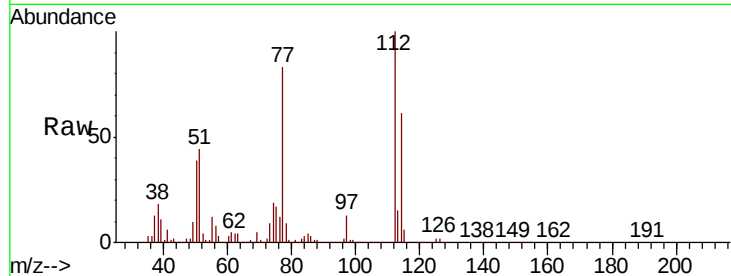




#65
Chlorobenzene
Concen: 12633.146 ug/l
RT: 9.91 min Scan# 941
Delta R.T. 0.12 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

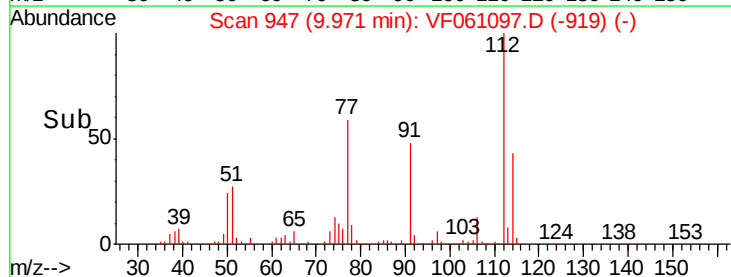
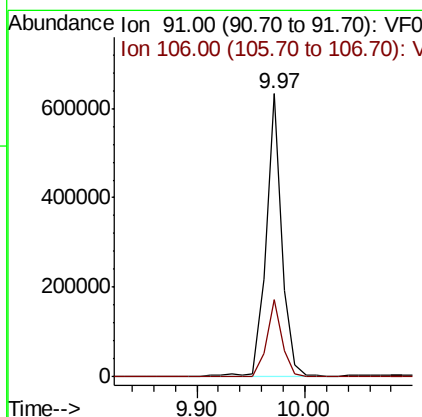
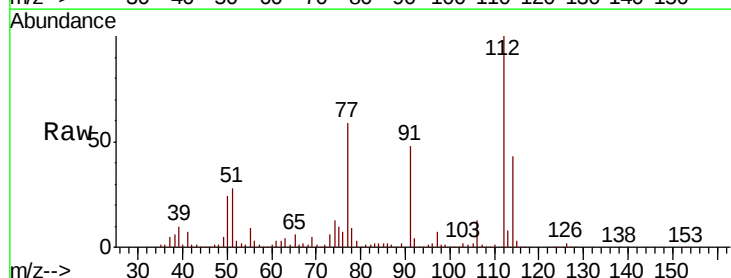
Instrument :
MSVOA_F
ClientSampleId :

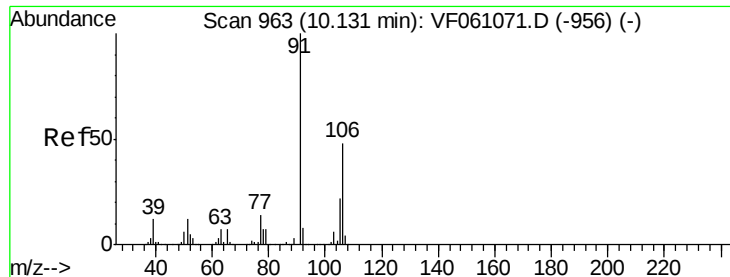
Tot Ion:112 Resp:19708160
Ion Ratio Lower Upper
112 100
114 61.1 27.8 41.6#



#67
Ethyl Benzene
Concen: 227.089 ug/l
RT: 9.97 min Scan# 947
Delta R.T. 0.08 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

Tgt Ion: 91 Resp: 645409
Ion Ratio Lower Upper
91 100
106 27.5 22.5 33.7

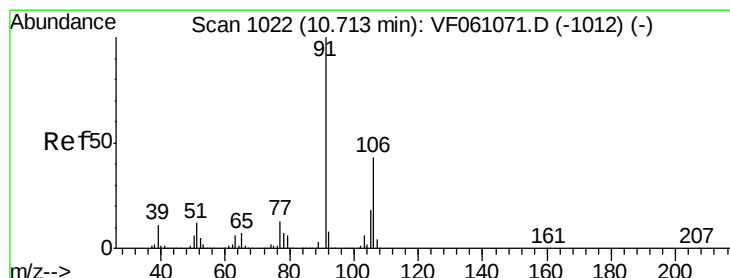
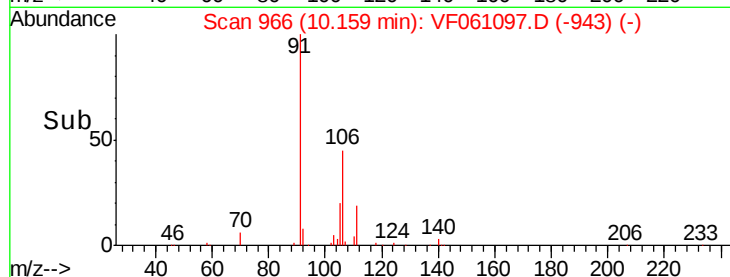
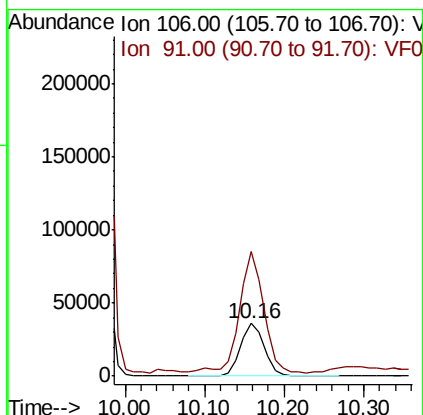
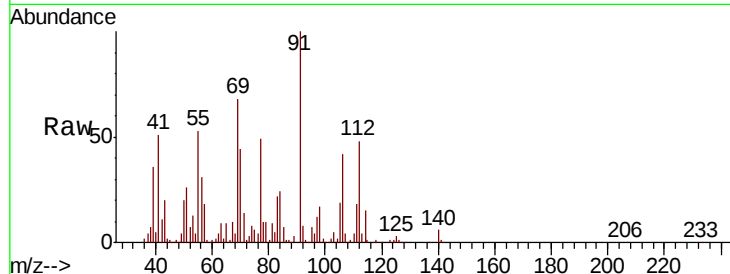




#68
m/p-Xylenes
Concen: 74.012 ug/l
RT: 10.16 min Scan# 966
Delta R.T. 0.03 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

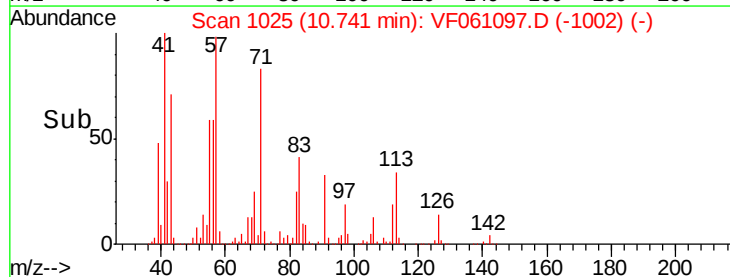
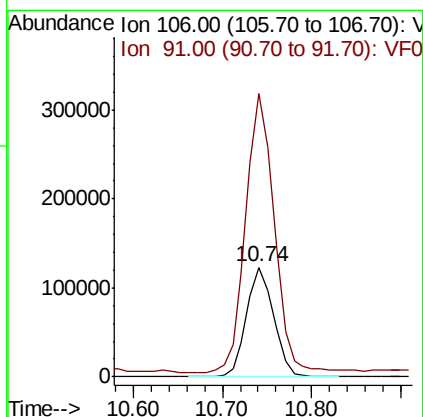
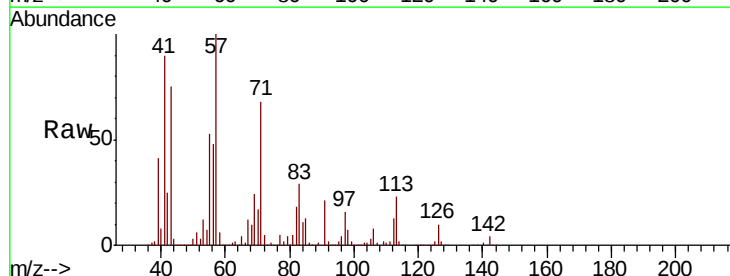
Instrument :
MSVOA_F
ClientSampleId :

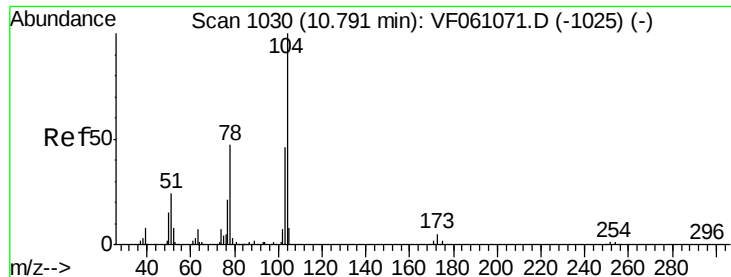
Tot Ion:106 Resp: 74027
Ion Ratio Lower Upper
106 100
91 237.7 168.2 252.2



#69
o-Xylene
Concen: 234.206 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. 0.03 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

Tgt Ion:106 Resp: 259803
Ion Ratio Lower Upper
106 100
91 257.8 115.9 347.7





#70

Stvrene

Concen: 4.239 ug/l

RT: 10.81 min Scan# 1032

Delta R.T. 0.02 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

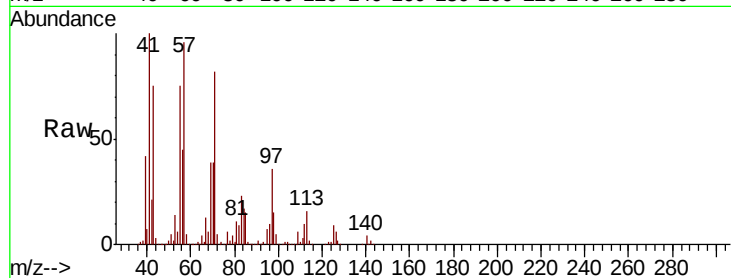
Tot Ion:104 Resp: 11771

Ion Ratio Lower Upper

104 100

78 130.8 38.4 57.6#

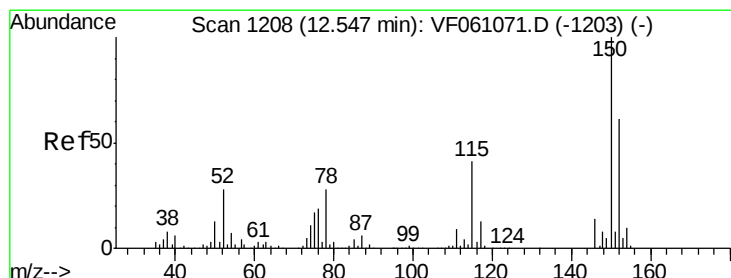
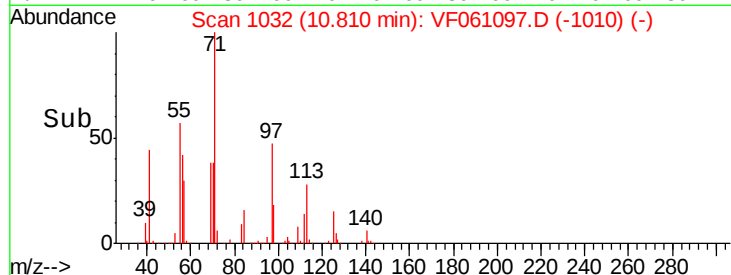
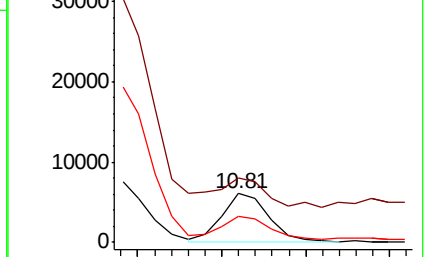
103 52.1 37.0 55.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. 0.02 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

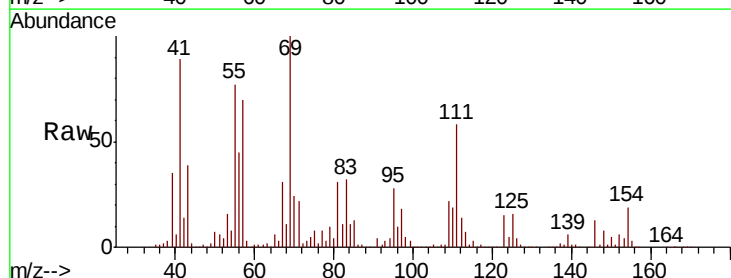
Tgt Ion:152 Resp: 40978

Ion Ratio Lower Upper

152 100

115 46.3 33.3 99.9

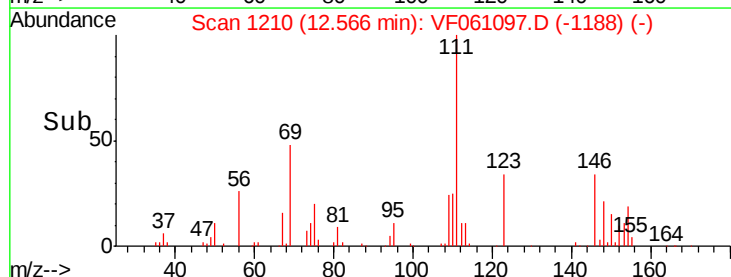
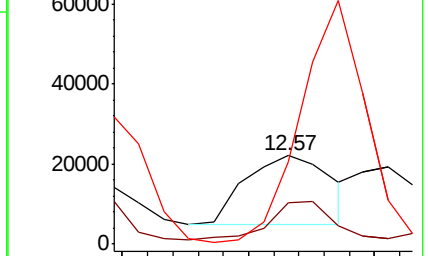
150 93.6 0.0 328.2

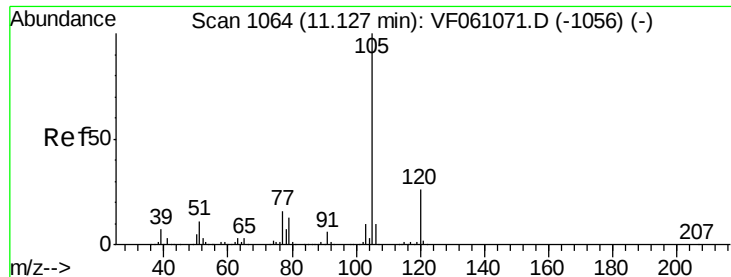


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 100.019 ug/l

RT: 11.16 min Scan# 1067

Delta R.T. 0.03 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

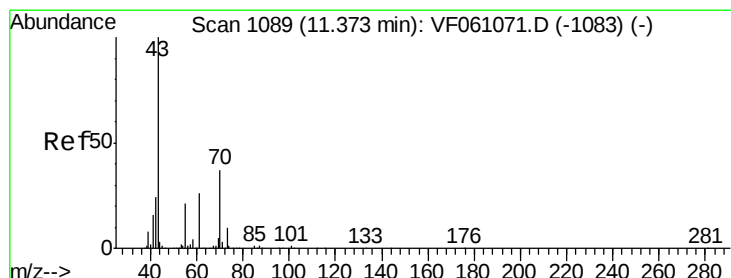
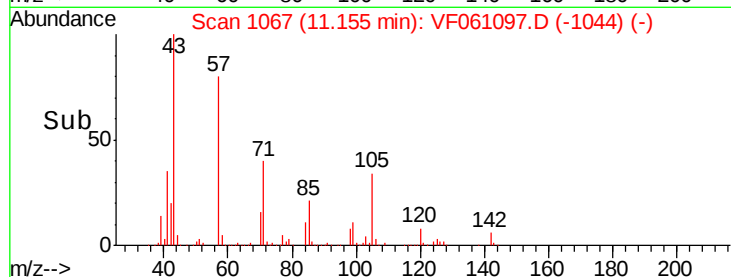
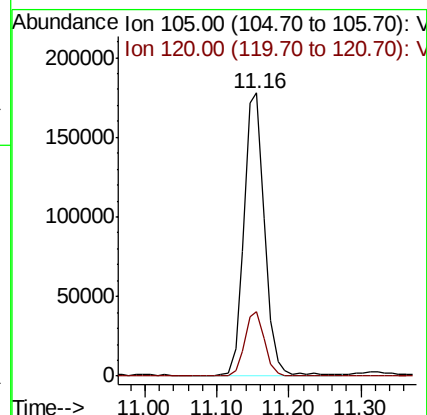
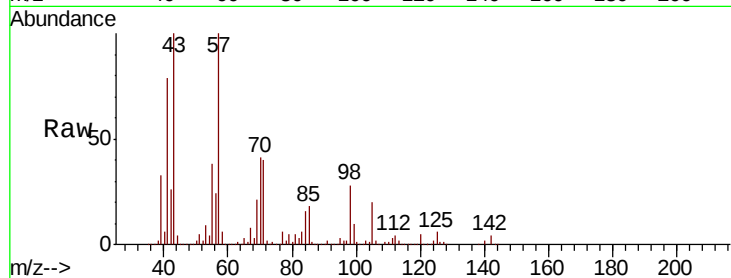
ClientSampleId :

Tot Ion:105 Resp: 353197

Ion Ratio Lower Upper

105 100

120 23.0 13.0 39.0



#74

N-ethyl acetate

Concen: 730.291 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. 0.07 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Tgt Ion: 43 Resp: 572552

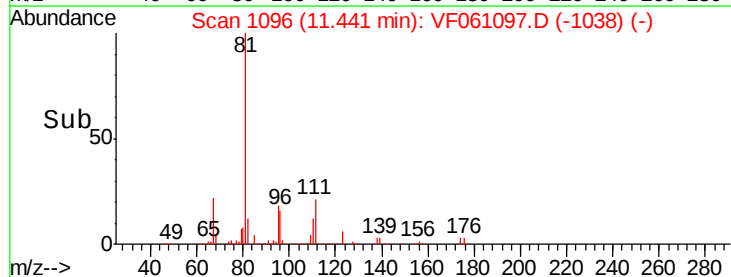
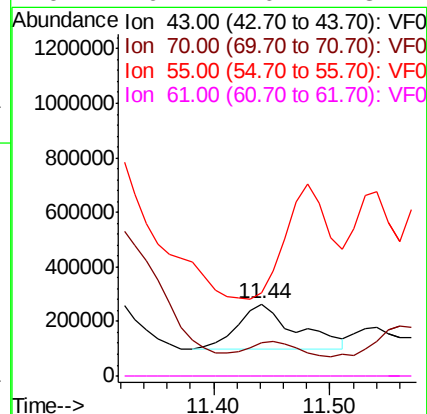
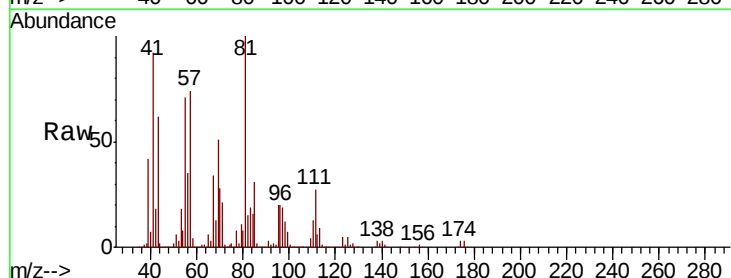
Ion Ratio Lower Upper

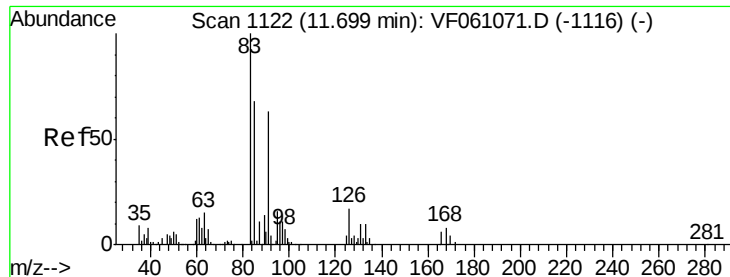
43 100

70 45.6 29.2 43.8#

55 115.6 16.5 24.7#

61 0.4 20.7 31.1#





#75

1,1,2,2-Tetrachloroethane

Concen: 1235.579 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

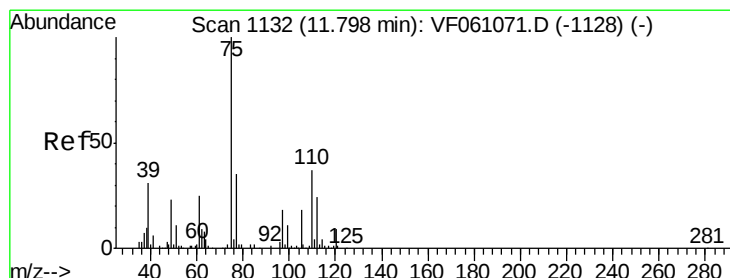
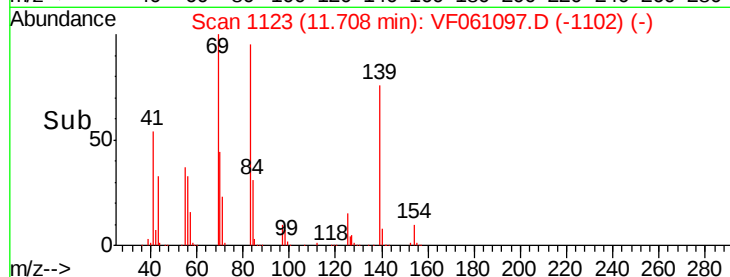
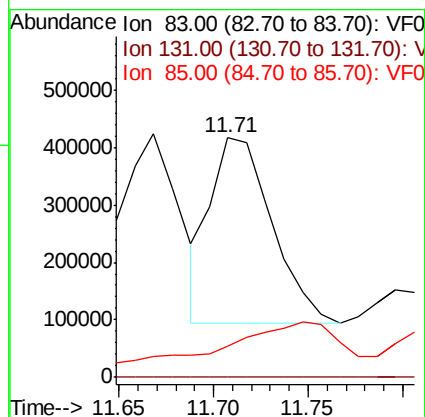
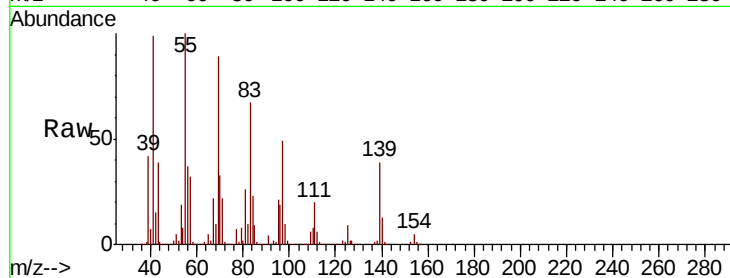
Tot Ion: 83 Resp: 724147

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 13.0 33.9 101.6#



#76

1,2,3-Trichloropropane

Concen: 18.083 ug/l

RT: 11.75 min Scan# 1127

Delta R.T. -0.05 min

Lab File: VF061097.D

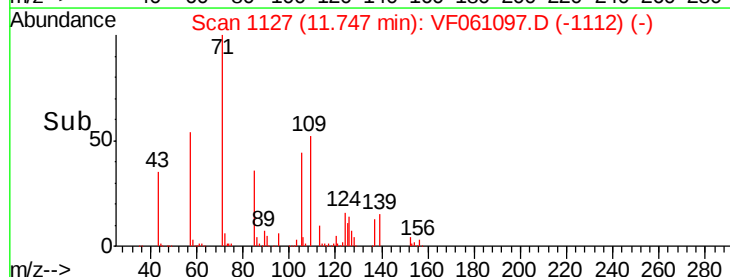
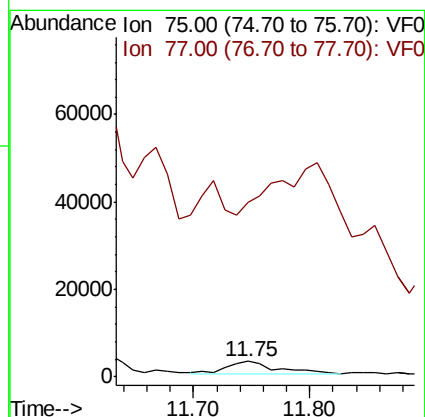
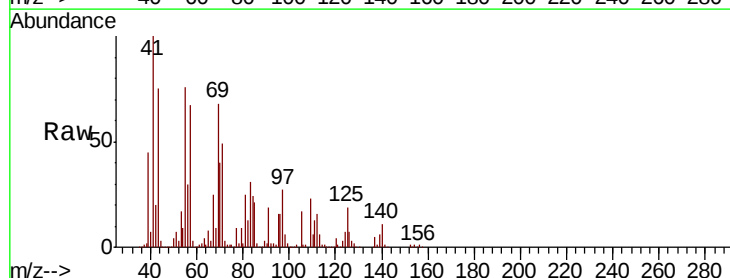
Acq: 19 Dec 2018 21:00

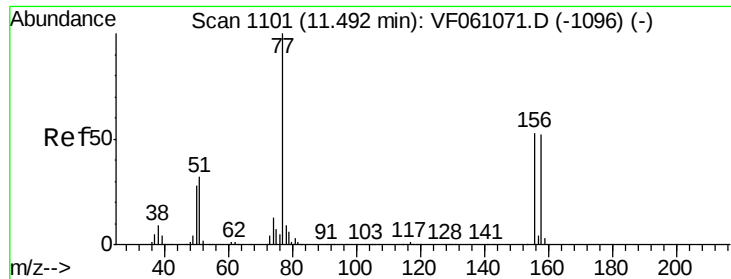
Tgt Ion: 75 Resp: 7887

Ion Ratio Lower Upper

75 100

77 1135.5 17.6 52.9#





#77

Bromobenzene

Concen: 1.929 ug/l

RT: 11.51 min Scan# 1103

Delta R.T. 0.02 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampled :

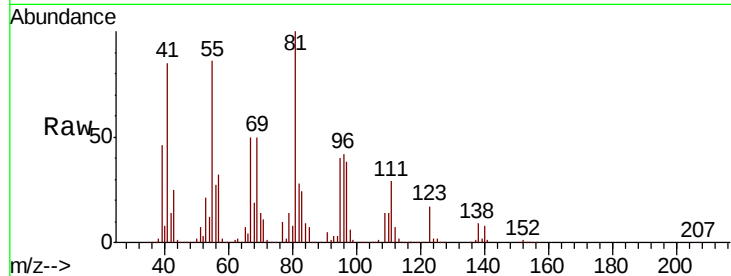
Tot Ion:156 Resp: 1466

Ion Ratio Lower Upper

156 100

77 8496.9 93.8 281.4#

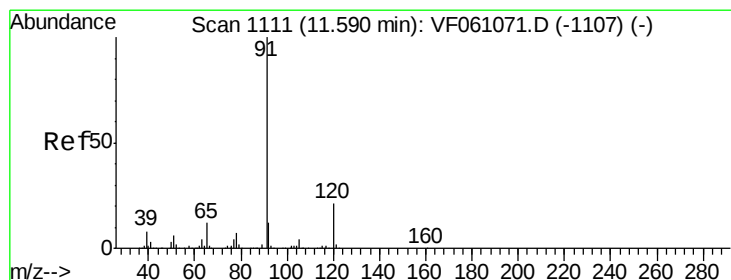
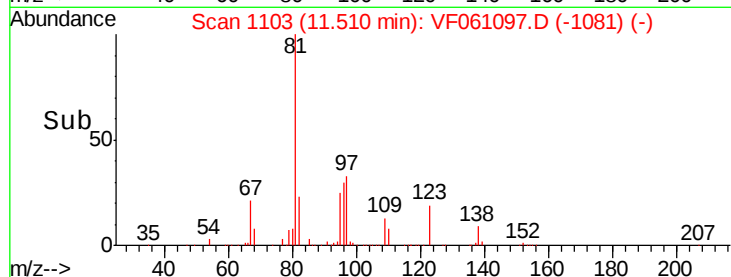
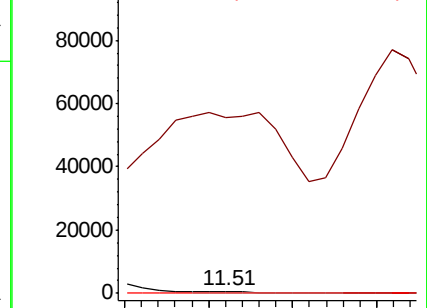
158 0.0 48.9 146.8#



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



#78

n-propylbenzene

Concen: Below Cal

RT: 11.63 min Scan# 1115

Delta R.T. 0.04 min

Lab File: VF061097.D

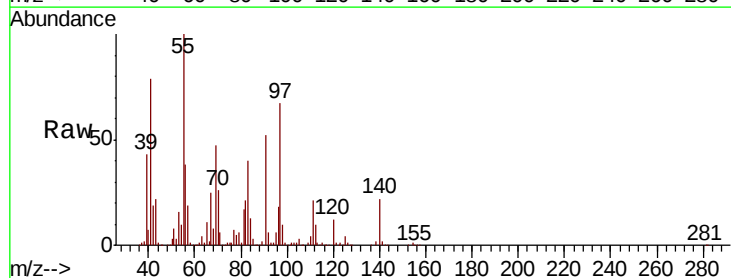
Acq: 19 Dec 2018 21:00

Tgt Ion: 91 Resp: 923189

Ion Ratio Lower Upper

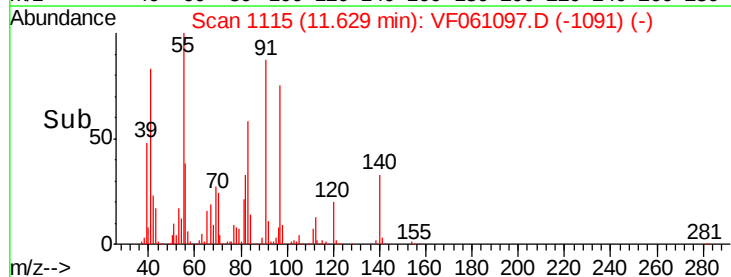
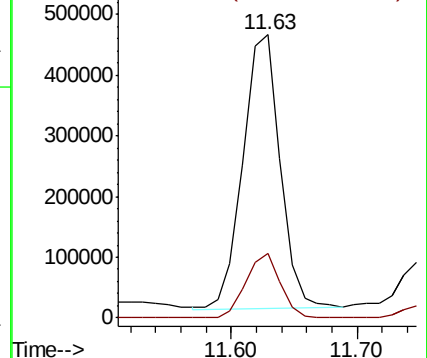
91 100

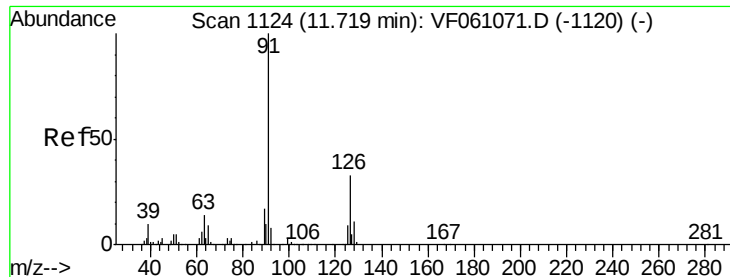
120 22.7 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

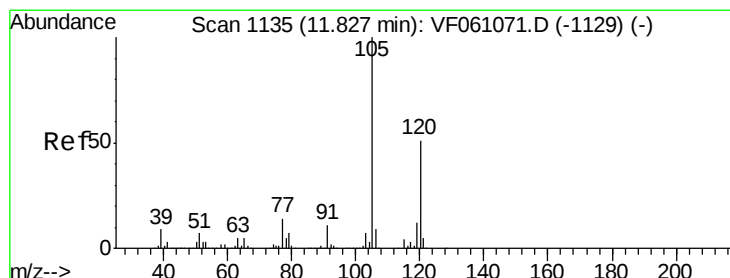
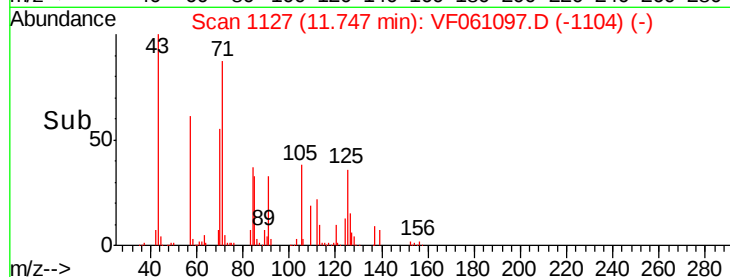
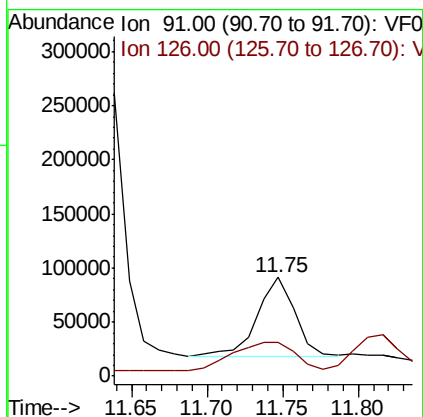
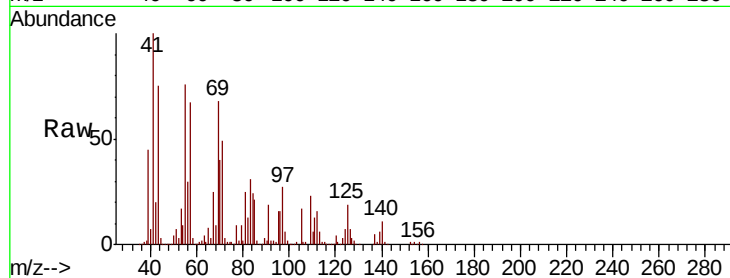




#79
2-Chlorotoluene
Concen: 52.864 ug/l
RT: 11.75 min Scan# 1127
Delta R.T. 0.03 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

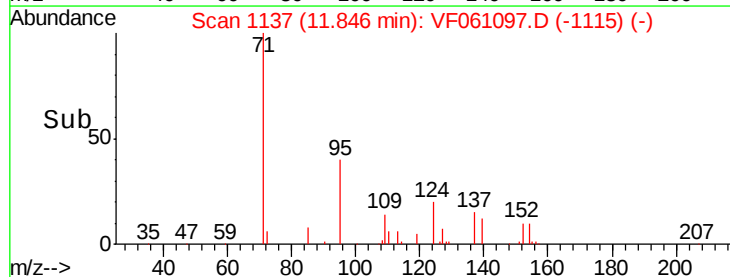
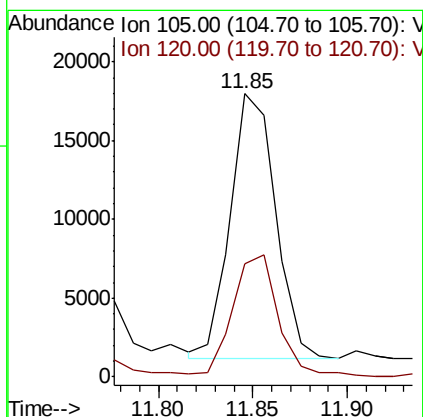
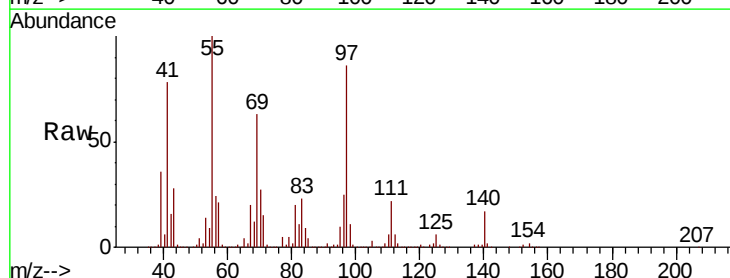
Instrument :
MSVOA_F
ClientSampleId :

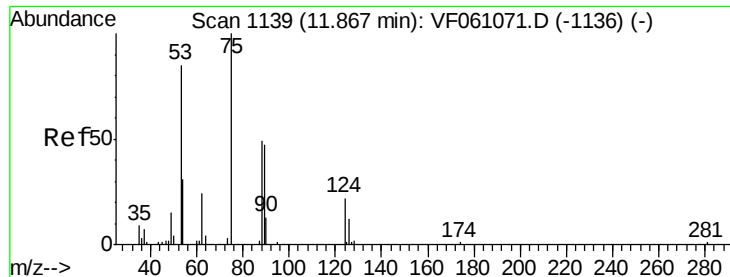
Tot Ion: 91 Resp: 128062
Ion Ratio Lower Upper
91 100
126 34.9 16.4 49.1



#80
1,3,5-Trimethylbenzene
Concen: 9.510 ug/l
RT: 11.85 min Scan# 1137
Delta R.T. 0.02 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

Tgt Ion: 105 Resp: 27652
Ion Ratio Lower Upper
105 100
120 40.1 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 5.250 ug/l

RT: 11.86 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

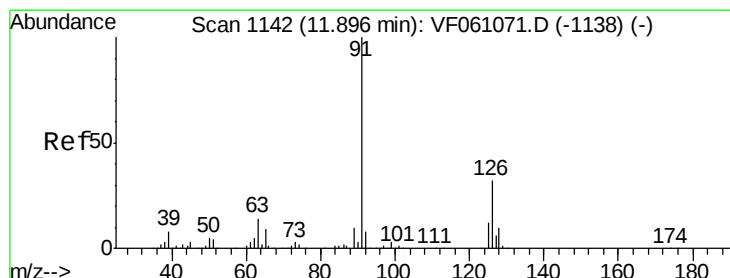
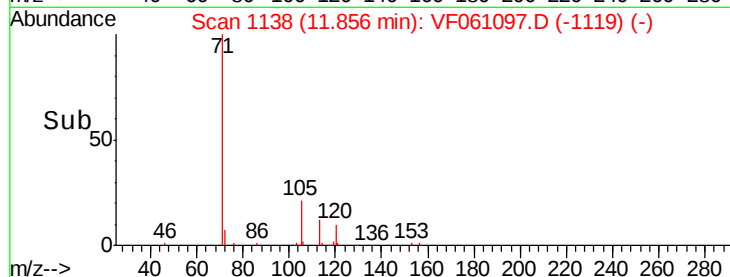
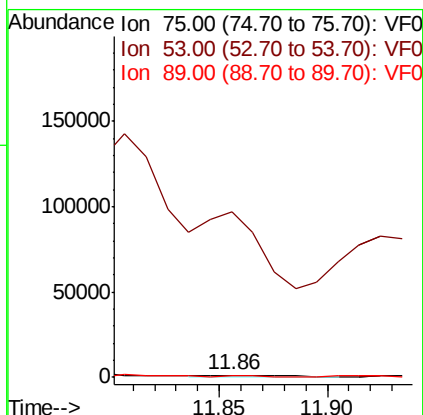
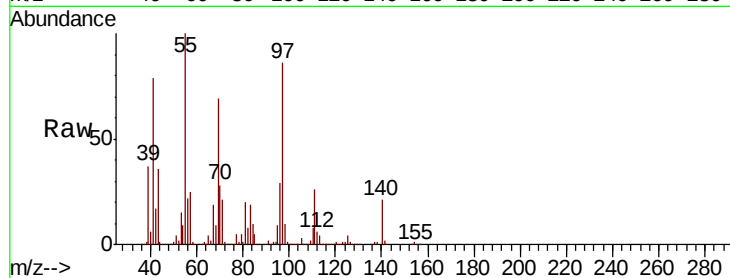
Tot Ion: 75 Resp: 984

Ion Ratio Lower Upper

75 100

53 9252.9 74.1 111.1#

89 109.5 42.6 64.0#



#82

4-Chlorotoluene

Concen: 69.206 ug/l

RT: 12.04 min Scan# 1157

Delta R.T. 0.15 min

Lab File: VF061097.D

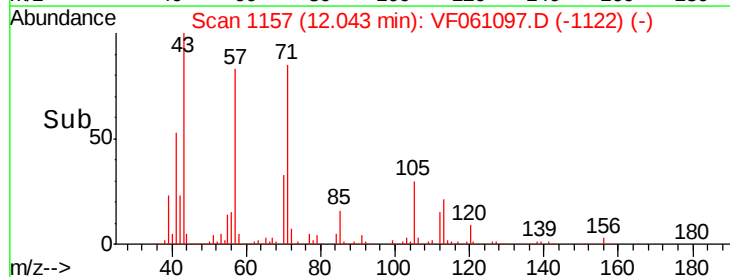
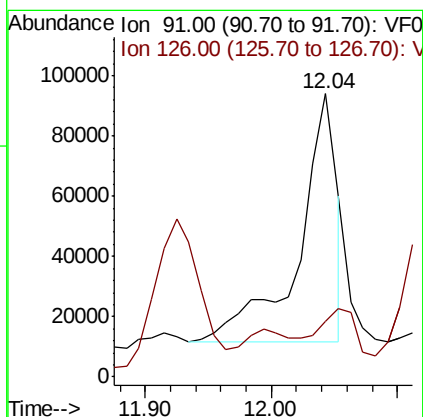
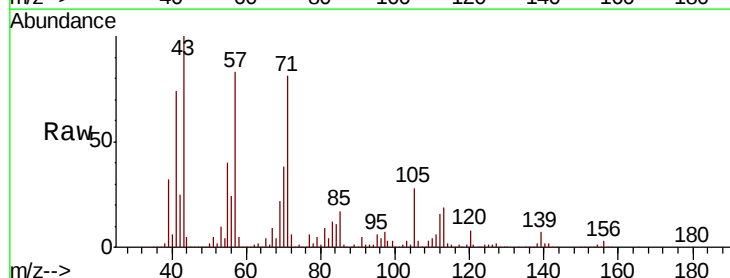
Acq: 19 Dec 2018 21:00

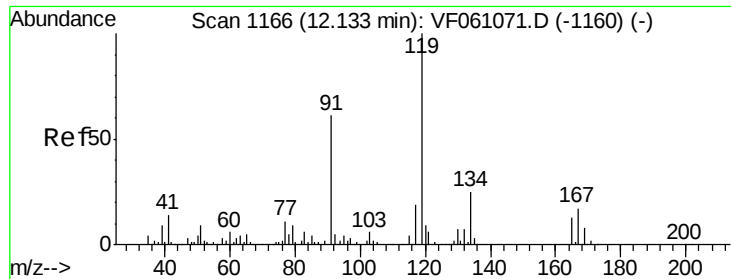
Tgt Ion: 91 Resp: 173429

Ion Ratio Lower Upper

91 100

126 19.6 16.0 47.9





#83

tert-Butylbenzene

Concen: 25.553 ug/l

RT: 12.15 min Scan# 1168

Delta R.T. 0.02 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampled :

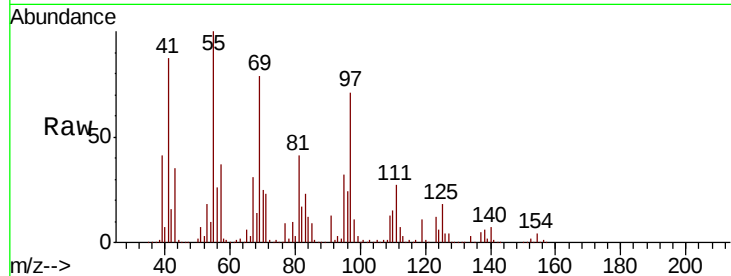
Tot Ion:119 Resp: 76459

Ion Ratio Lower Upper

119 100

91 113.4 30.5 91.5#

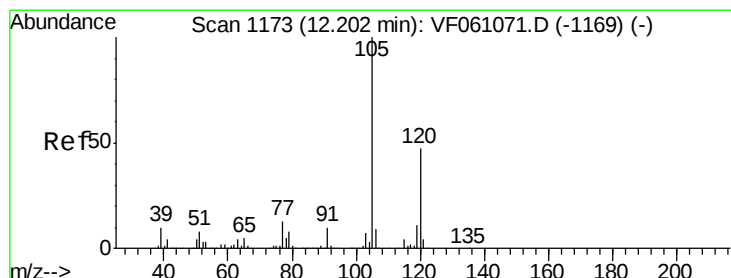
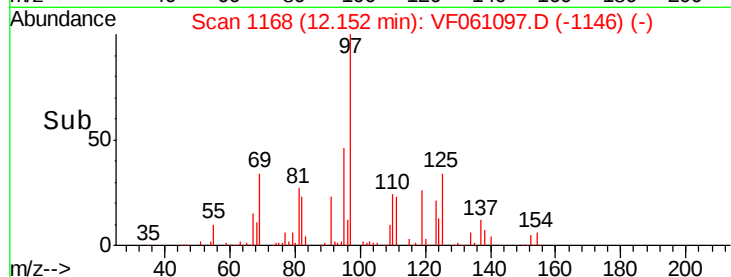
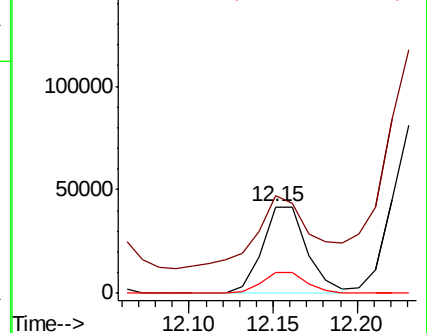
134 24.5 12.4 37.4



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: 452.895 ug/l

RT: 12.23 min Scan# 1176

Delta R.T. 0.03 min

Lab File: VF061097.D

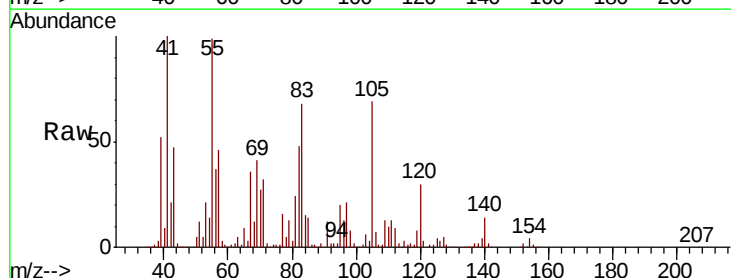
Acq: 19 Dec 2018 21:00

Tgt Ion:105 Resp: 1313236

Ion Ratio Lower Upper

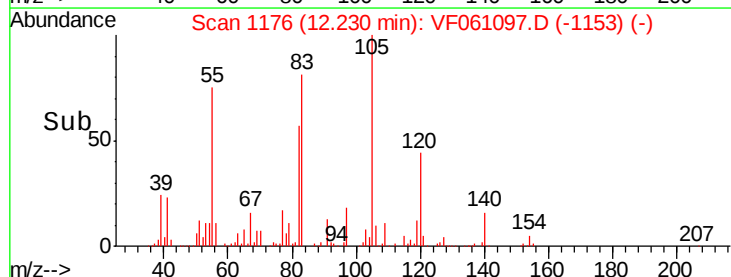
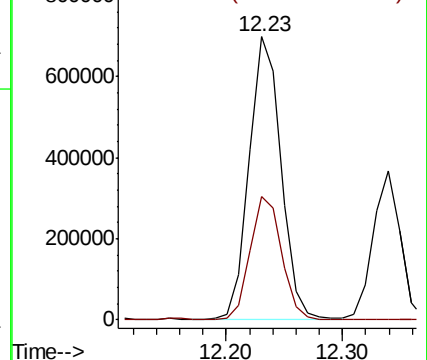
105 100

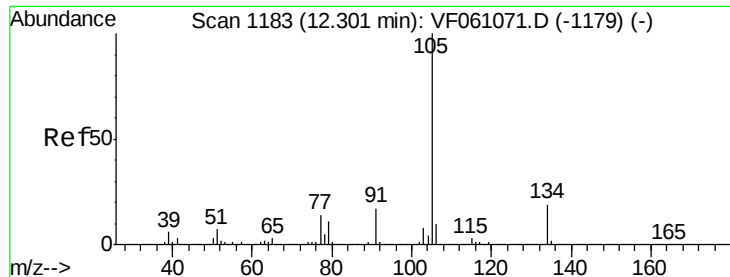
120 43.5 23.6 71.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 150.729 ug/l

RT: 12.34 min Scan# 1187

Delta R.T. 0.04 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

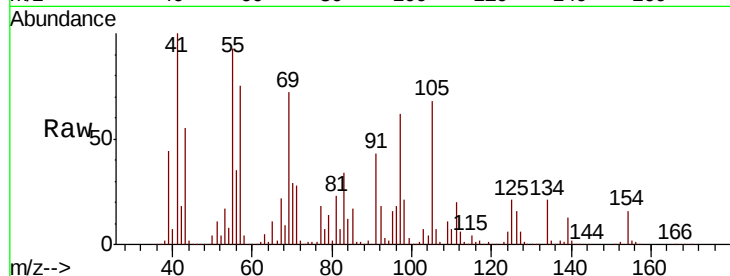
ClientSampled :

Tot Ion:105 Resp: 588563

Ion Ratio Lower Upper

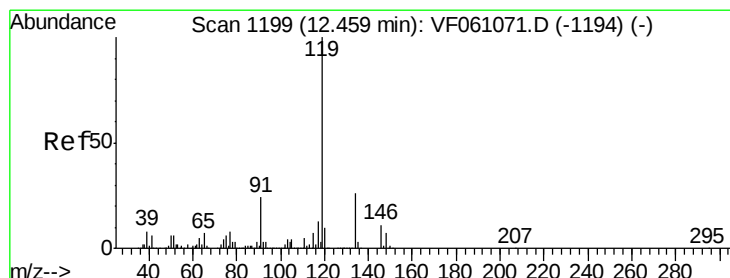
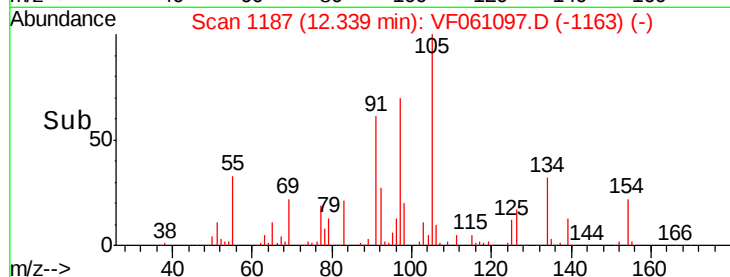
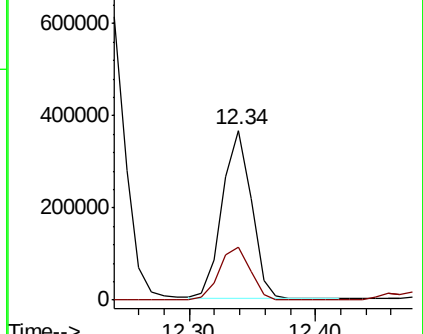
105 100

134 31.5 9.4 28.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 99.285 ug/l

RT: 12.49 min Scan# 1202

Delta R.T. 0.03 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

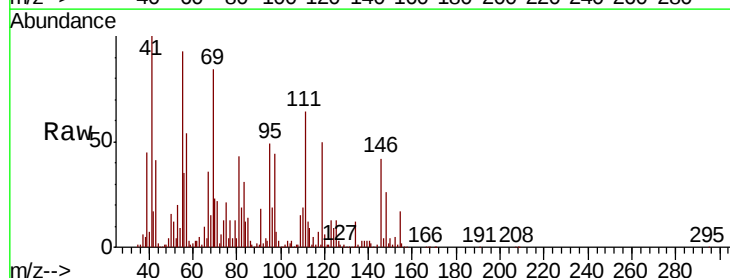
Tgt Ion:119 Resp: 321797

Ion Ratio Lower Upper

119 100

134 23.9 12.8 38.4

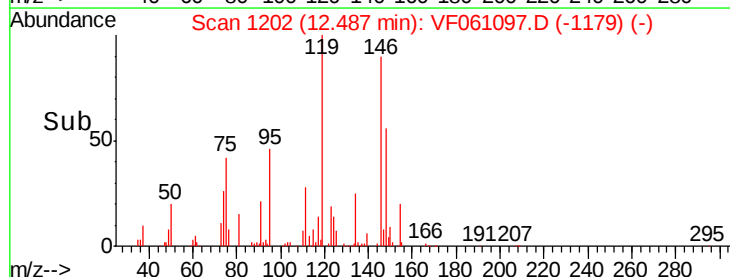
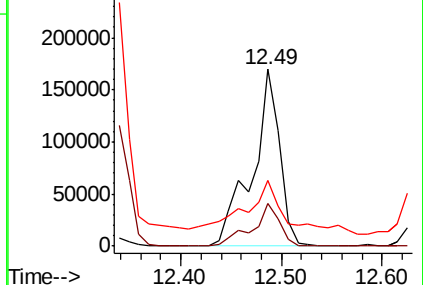
91 36.8 12.2 36.6#

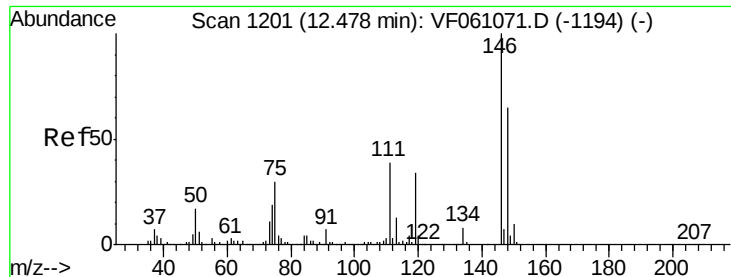


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 399.367 ug/l

RT: 12.50 min Scan# 1203

Delta R.T. 0.02 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

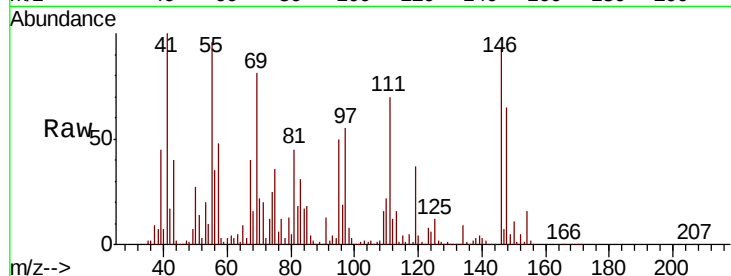
Tot Ion:146 Resp: 448813

Ion Ratio Lower Upper

146 100

111 74.7 19.3 57.9#

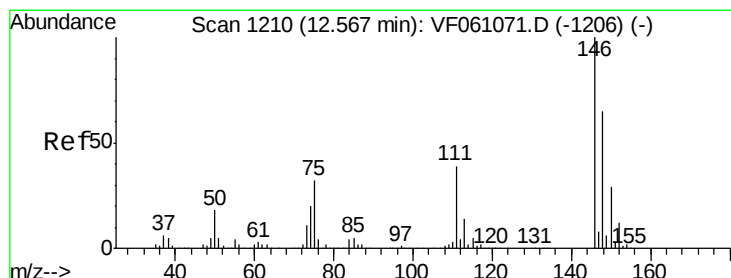
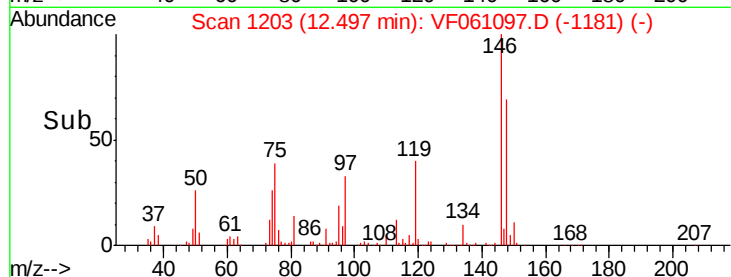
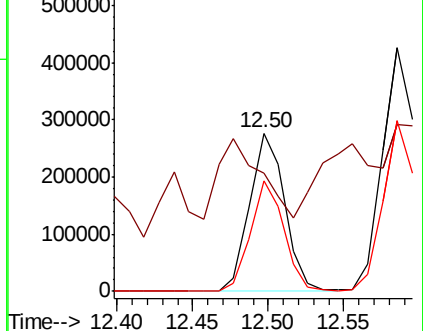
148 69.5 32.4 97.2



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



#88

1,4-Dichlorobenzene

Concen: 487.698 ug/l

RT: 12.59 min Scan# 1212

Delta R.T. 0.02 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

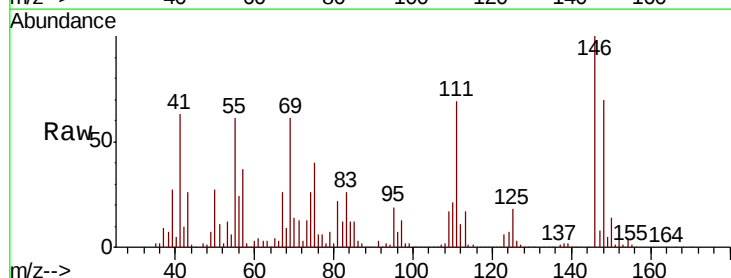
Tgt Ion:146 Resp: 680755

Ion Ratio Lower Upper

146 100

111 68.7 19.4 58.4#

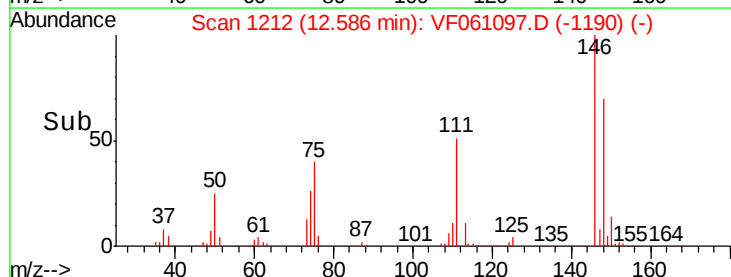
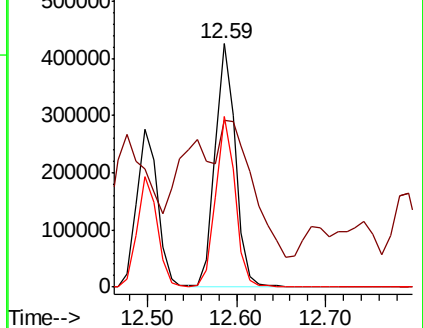
148 69.9 32.4 97.0

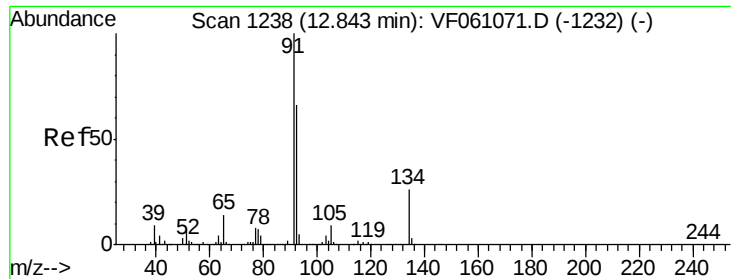


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

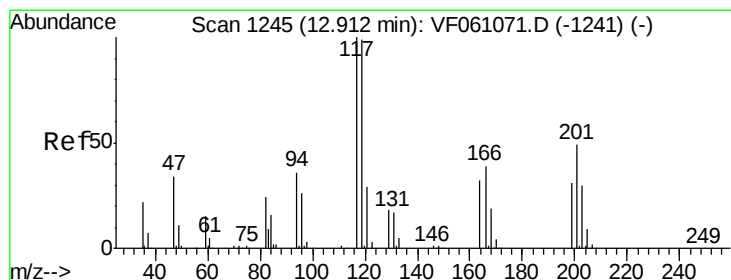
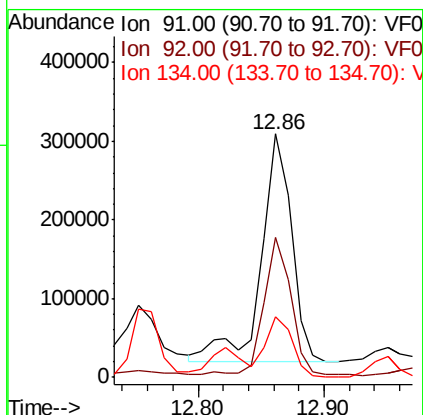
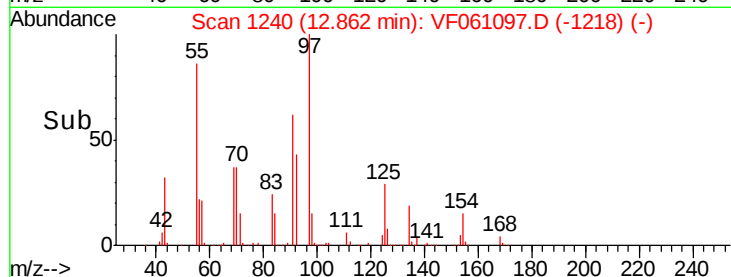
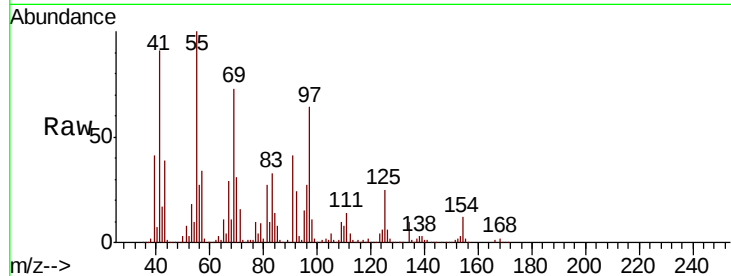




#89
n-Butylbenzene
Concen: Below Cal
RT: 12.86 min Scan# 1240
Delta R.T. 0.02 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

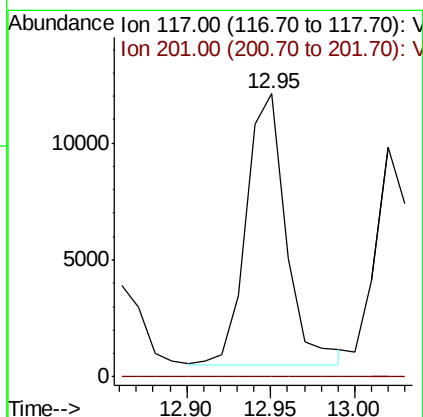
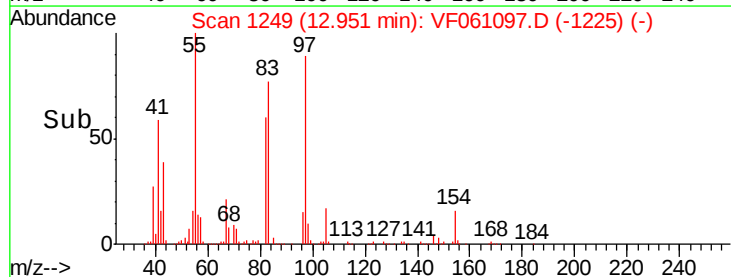
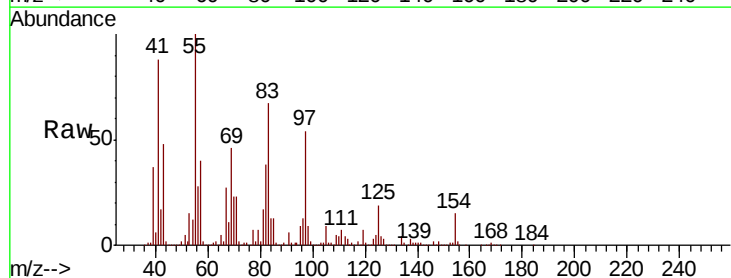
Instrument :
MSVOA_F
ClientSampleId :

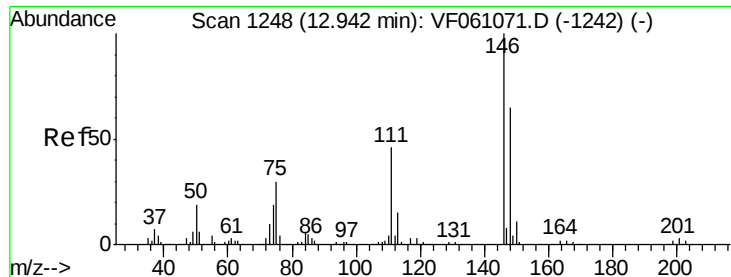
Tot Ion: 91 Resp: 487574
Ion Ratio Lower Upper
91 100
92 57.7 32.8 98.4
134 25.0 13.2 39.5



#90
Hexachloroethane
Concen: 23.751 ug/l
RT: 12.95 min Scan# 1249
Delta R.T. 0.04 min
Lab File: VF061097.D
Acq: 19 Dec 2018 21:00

Tgt Ion: 117 Resp: 19019
Ion Ratio Lower Upper
117 100
201 0.0 24.9 74.8#





#91

1,2-Dichlorobenzene

Concen: 23.186 ug/l

RT: 12.96 min Scan# 1250

Delta R.T. 0.02 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

Instrument :

MSVOA_F

ClientSampleId :

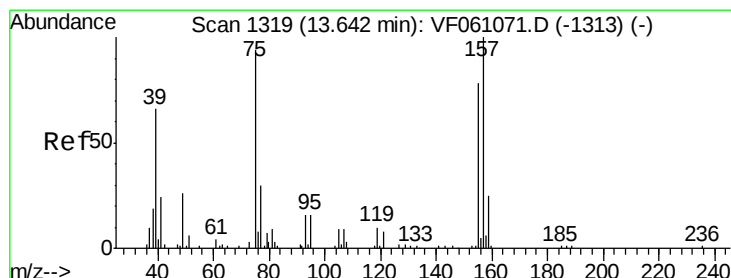
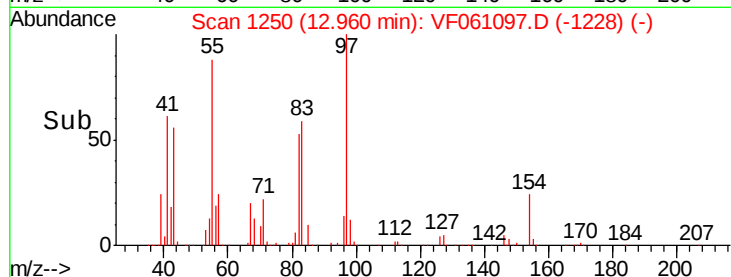
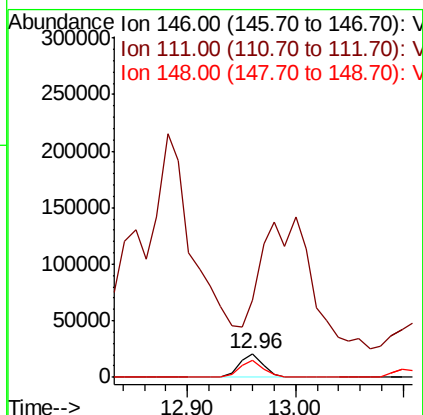
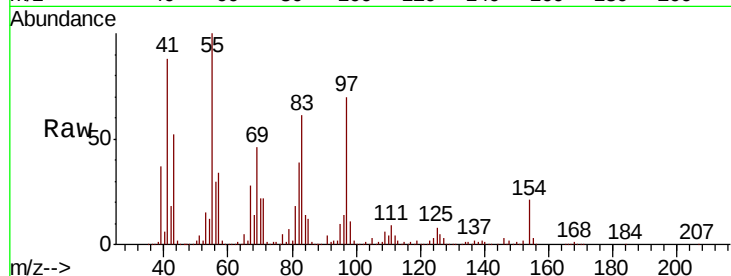
Tot Ion:146 Resp: 31509

Ion Ratio Lower Upper

146 100

111 328.5 23.2 69.5#

148 72.0 32.4 97.0



#92

1,2-Dibromo-3-Chloropropane

Concen: 93.159 ug/l

RT: 13.68 min Scan# 1323

Delta R.T. 0.04 min

Lab File: VF061097.D

Acq: 19 Dec 2018 21:00

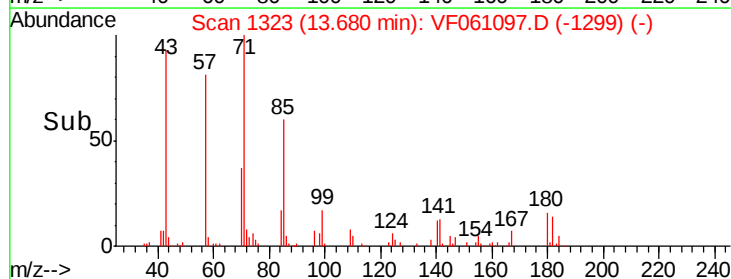
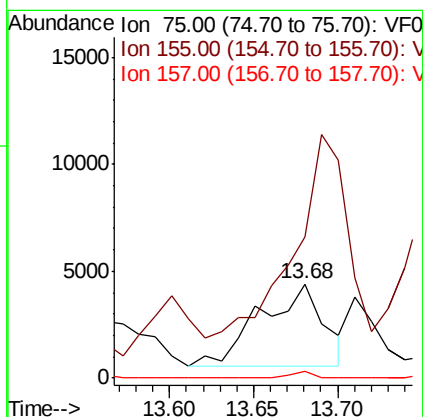
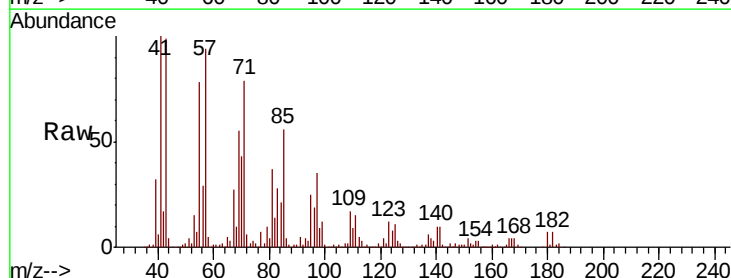
Tgt Ion: 75 Resp: 10019

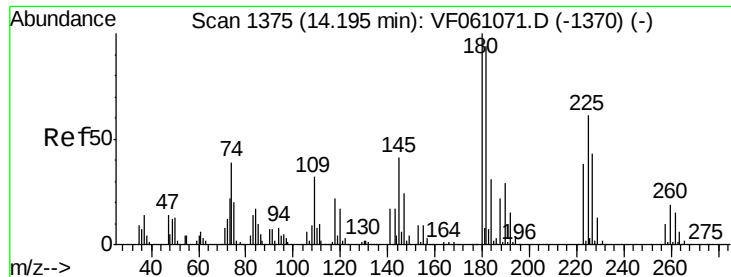
Ion Ratio Lower Upper

75 100

155 150.2 41.5 124.5#

157 7.3 53.2 159.6#

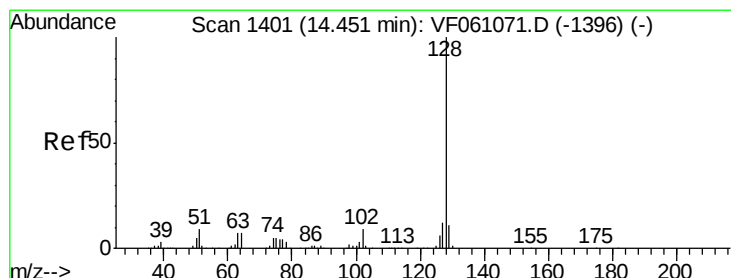
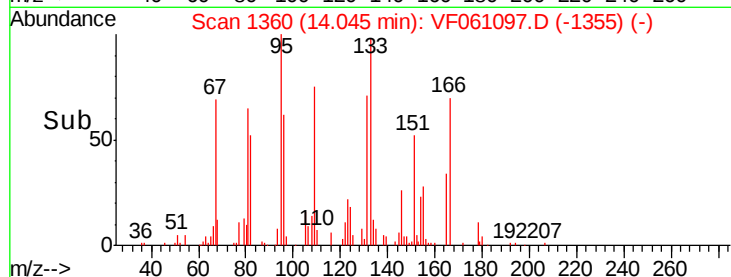
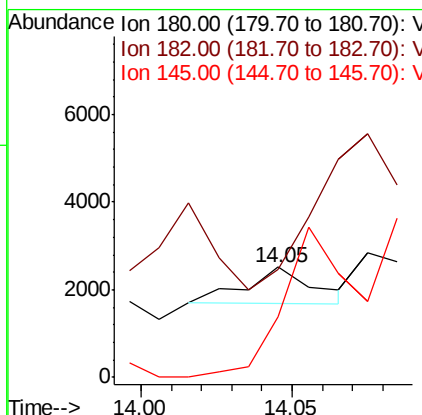
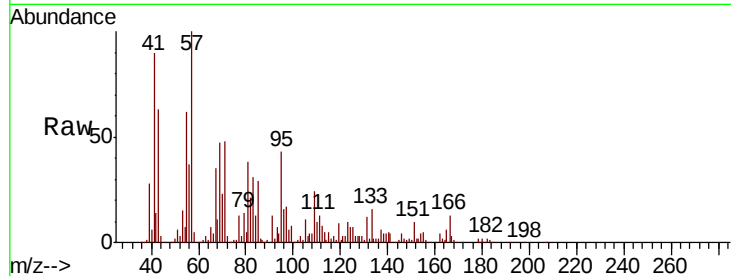




#93
 1,2,4-Trichlorobenzene
 Concen: 1.341 ug/l
 RT: 14.05 min Scan# 1360
 Delta R.T. -0.15 min
 Lab File: VF061097.D
 Acq: 19 Dec 2018 21:00

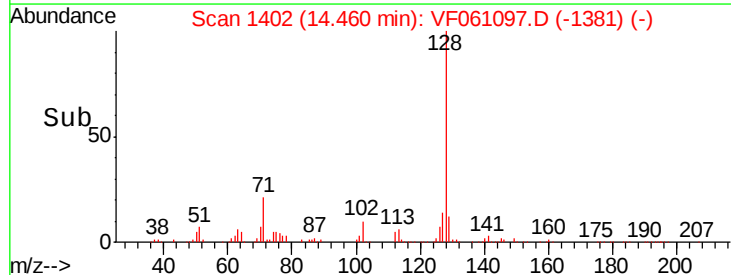
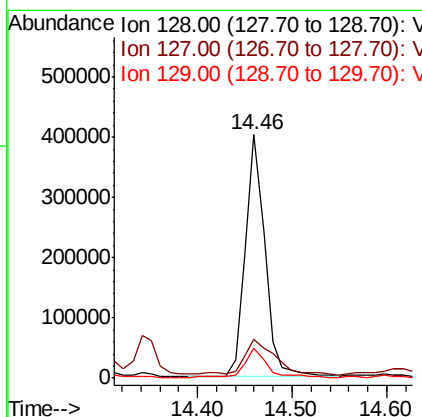
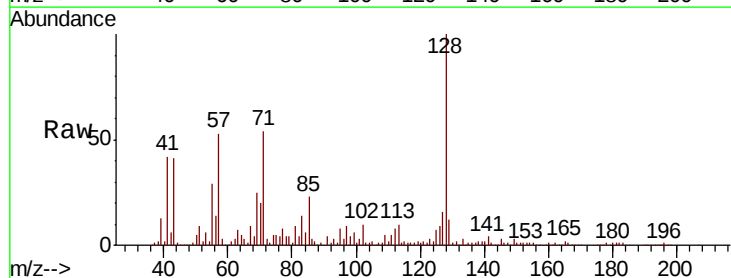
Instrument :
 MSVOA_F
 ClientSampleId :

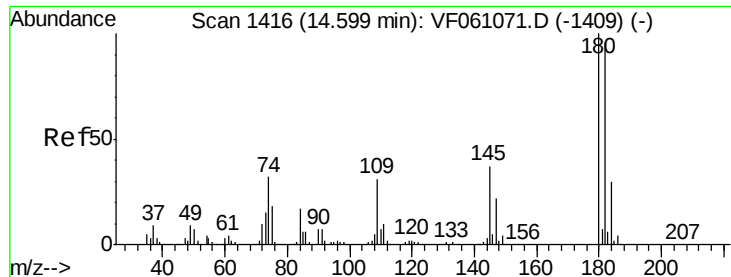
Tot Ion:180 Resp: 1292
 Ion Ratio Lower Upper
 180 100
 182 97.7 46.9 140.6
 145 54.9 20.5 61.6



#95
 Naphthalene
 Concen: 332.334 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.01 min
 Lab File: VF061097.D
 Acq: 19 Dec 2018 21:00

Tgt Ion:128 Resp: 584874
 Ion Ratio Lower Upper
 128 100
 127 16.1 9.4 14.2#
 129 12.2 8.8 13.2

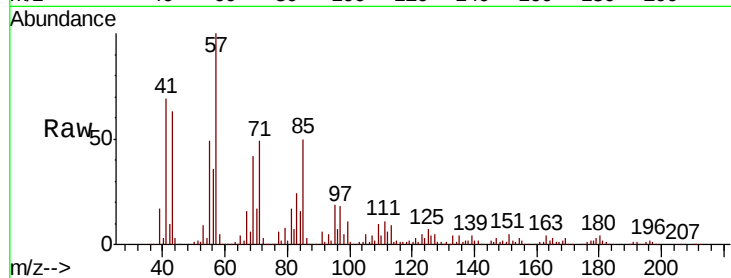




#96
 1,2,3-Trichlorobenzene
 Concen: 19.414 ug/l
 RT: 14.65 min Scan# 1421
 Delta R.T. 0.05 min
 Lab File: VF061097.D
 Acq: 19 Dec 2018 21:00

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:180 Resp: 17297
 Ion Ratio Lower Upper
 180 100
 182 21.9 47.9 143.8#
 145 47.6 18.6 55.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

