

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061098.D
 Acq On : 19 Dec 2018 21:29
 Operator : VA/AP
 Sample : VSTDCCC050EC
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:26:18 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	209269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	369750	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	317334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	163867	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	138255	51.37	ug/l	0.00
Spiked Amount						
			Recovery	=	102.74%	
35) Dibromofluoromethane	4.11	113	140407	47.40	ug/l	0.00
Spiked Amount						
			Recovery	=	94.80%	
50) Toluene-d8	7.56	98	427487	50.93	ug/l	0.00
Spiked Amount						
			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.41	95	175976	45.48	ug/l	0.00
Spiked Amount						
			Recovery	=	90.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	217808	46.821	ug/l	99
3) Chloromethane	1.10	50	116461	43.705	ug/l	95
4) Vinyl Chloride	1.14	62	109932	44.472	ug/l	98
5) Bromomethane	1.34	94	89400	52.142	ug/l	99
6) Chloroethane	1.39	64	57942	50.871	ug/l #	86
7) Trichlorofluoromethane	1.49	101	172377	36.522	ug/l	99
8) Diethyl Ether	1.63	74	33469	51.784	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	1.84	101	118225	48.310	ug/l	96
10) Methyl Iodide	1.91	142	159374	41.315	ug/l	96
11) Tert butyl alcohol	2.56	59	28179	259.438	ug/l	99
12) 1,1-Dichloroethene	1.79	96	93154	50.498	ug/l	98
13) Acrolein	2.00	56	16894	215.252	ug/l	87
14) Allyl chloride	2.09	41	104410	54.388	ug/l	97
15) Acrylonitrile	2.95	53	63909	254.454	ug/l	98
16) Acetone	2.24	43	111714	207.619	ug/l	99
17) Carbon Disulfide	1.84	76	196066	35.170	ug/l	97
18) Methyl Acetate	2.43	43	63056	56.643	ug/l	100
19) Methyl tert-butyl Ether	2.44	73	209464	51.156	ug/l	96
20) Methylene Chloride	2.25	84	61605	34.430	ug/l	92
21) trans-1,2-Dichloroethene	2.31	96	67647	34.286	ug/l	98
22) Diisopropyl ether	2.80	45	306809	47.979	ug/l	98
23) Vinyl Acetate	3.19	43	724643	245.644	ug/l	98
24) 1,1-Dichloroethane	2.87	63	195819	51.684	ug/l	98
25) 2-Butanone	4.34	43	205213	235.161	ug/l	93
26) 2,2-Dichloropropane	3.60	77	106813	49.125	ug/l	96
27) cis-1,2-Dichloroethene	3.47	96	139907	46.319	ug/l	97
28) Bromochloromethane	3.72	49	89052	46.323	ug/l	96
29) Tetrahydrofuran	4.08	42	91748	258.316	ug/l	96
30) Chloroform	3.87	83	285702	50.291	ug/l	97
31) Cyclohexane	3.70	56	95696	24.341	ug/l	98
32) 1,1,1-Trichloroethane	4.09	97	167075	49.066	ug/l	93
36) 1,1-Dichloropropene	4.28	75	223719	50.126	ug/l	99
37) Ethyl Acetate	4.11	43	89487	51.901	ug/l	89
38) Carbon Tetrachloride	3.99	117	164817	48.492	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	195966	48.942	ug/l	95
40) Benzene	4.64	78	482663	50.288	ug/l	95
41) Methacrylonitrile	4.75	41	47573	50.472	ug/l	98
42) 1,2-Dichloroethane	4.94	62	183852	50.424	ug/l	96
43) Isopropyl Acetate	6.96	43	102686	47.650	ug/l #	99
44) Trichloroethene	5.50	130	149905	49.539	ug/l	95
45) 1,2-Dichloropropane	6.23	63	122818	47.033	ug/l	99
46) Dibromomethane	6.09	93	83052	49.037	ug/l	93
47) Bromodichloromethane	6.39	83	212178	48.216	ug/l	99
48) Methyl methacrylate	6.73	41	73152	48.624	ug/l	97
49) 1,4-Dioxane	6.72	88	10657	976.258	ug/l #	89
51) 4-Methyl-2-Pentanone	8.27	43	357484	241.876	ug/l	99
52) Toluene	7.62	92	315271	49.623	ug/l	98
53) t-1,3-Dichloropropene	8.29	75	164814	46.427	ug/l	99
54) cis-1,3-Dichloropropene	7.31	75	212900	47.784	ug/l	99
55) 1,1,2-Trichloroethane	8.49	97	92312	48.467	ug/l	93
56) Ethyl methacrylate	8.62	69	94425	45.816	ug/l	87
57) 1,3-Dichloropropane	8.86	76	155500	45.141	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.30	63	126414	319.368	ug/l	96
59) 2-Hexanone	9.50	43	238871	223.488	ug/l	97
60) Dibromochloromethane	8.72	129	130872	47.934	ug/l	95
61) 1,2-Dibromoethane	8.99	107	98638	48.491	ug/l	100
64) Tetrachloroethene	8.16	164	134036	54.908	ug/l	97
65) Chlorobenzene	9.80	112	543206	82.860	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	139632	52.120	ug/l	99
67) Ethyl Benzene	9.90	91	637267	53.358	ug/l	99
68) m/p-Xylenes	10.14	106	420021	99.931	ug/l	95
69) o-Xylene	10.71	106	244153	52.376	ug/l	95
70) Styrene	10.79	104	325053	58.007	ug/l	98
71) Bromoform	10.78	173	64148	51.755	ug/l #	94
73) Isopropylbenzene	11.13	105	701688	49.690	ug/l	96
74) N-amyl acetate	11.37	43	156353	49.871	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.70	83	116816	49.843	ug/l	98
76) 1,2,3-Trichloropropane	11.80	75	86413	49.545	ug/l	99
77) Bromobenzene	11.50	156	151799	49.937	ug/l	83
78) n-propylbenzene	11.60	91	783592	47.749	ug/l	98
79) 2-Chlorotoluene	11.72	91	489385	50.519	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	561323	48.274	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	50018	66.737	ug/l	92
82) 4-Chlorotoluene	11.91	91	475366	47.436	ug/l	99
83) tert-Butylbenzene	12.13	119	593595	49.610	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	577065	49.767	ug/l	99
85) sec-Butylbenzene	12.31	105	774695	49.613	ug/l	99
86) p-Isopropyltoluene	12.46	119	664096	51.238	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	280303	57.286	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	278278	49.854	ug/l	98
89) n-Butylbenzene	12.84	91	647823	49.325	ug/l	99
90) Hexachloroethane	12.92	117	158384	49.461	ug/l	81
91) 1,2-Dichlorobenzene	12.94	146	273550	50.337	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.64	75	22188	51.591	ug/l	95

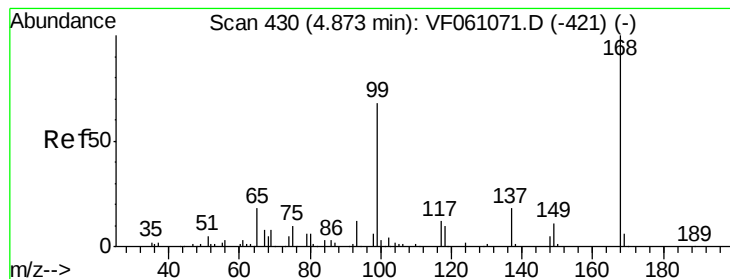
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	187658	48.691	ug/l	93
94) Hexachlorobutadiene	14.19	225	120977	49.284	ug/l	98
95) Naphthalene	14.46	128	391307	55.602	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	178404	50.073	ug/l	96

(#) = 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: VF061098.D

Acq: 19 Dec 2018 21:29

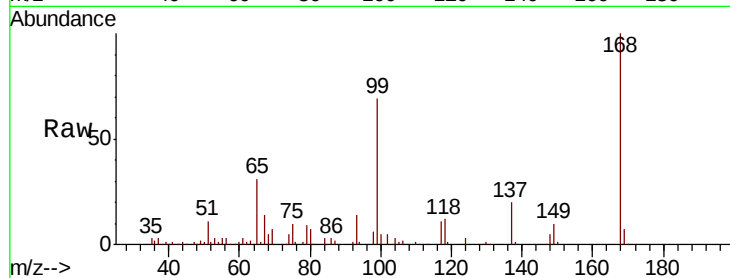
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 209269

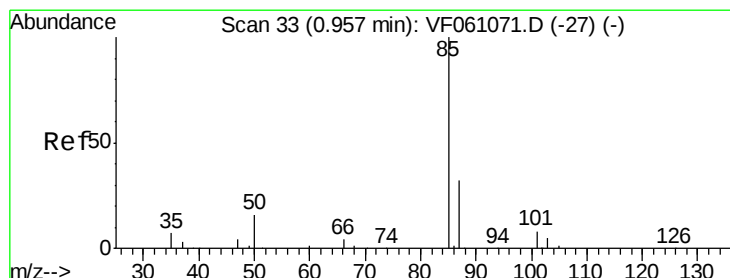
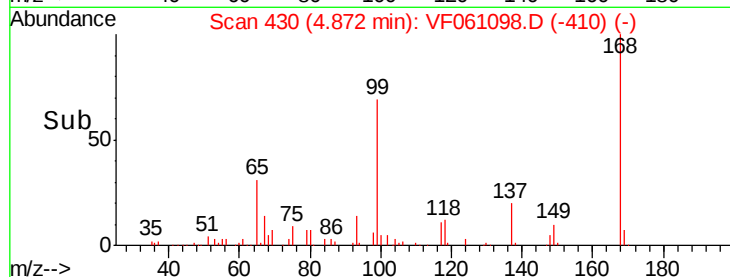
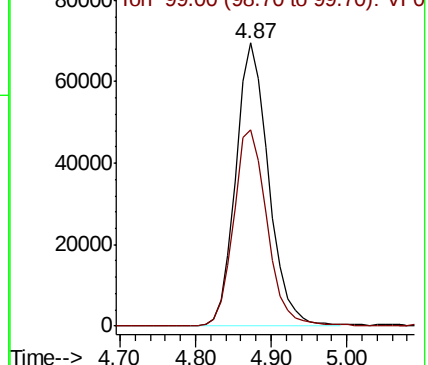
Ion Ratio Lower Upper

168 100

99 69.2 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0



#2

Dichlorodifluoromethane

Concen: 46.821 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061098.D

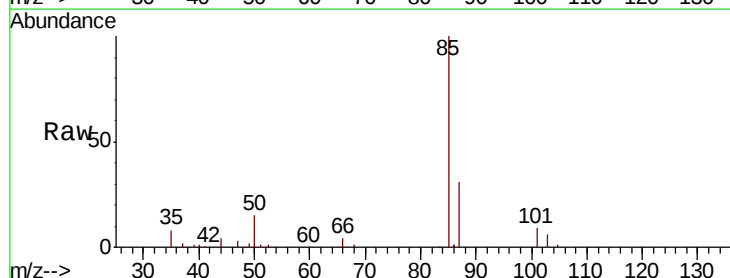
Acq: 19 Dec 2018 21:29

Tgt Ion: 85 Resp: 217808

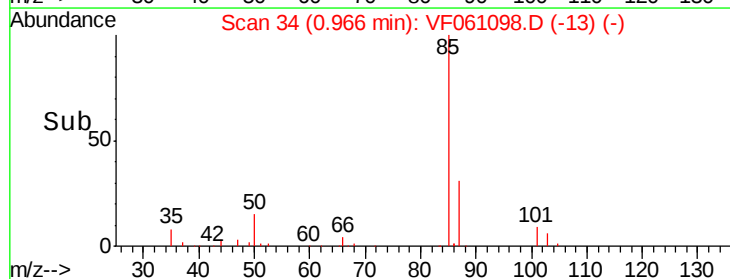
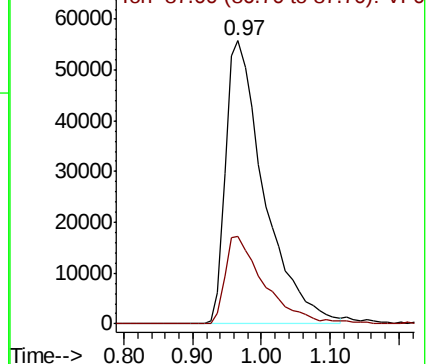
Ion Ratio Lower Upper

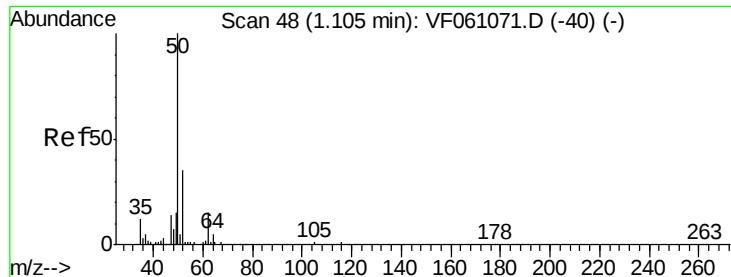
85 100

87 31.0 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0





#3

Chloromethane

Concen: 43.705 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

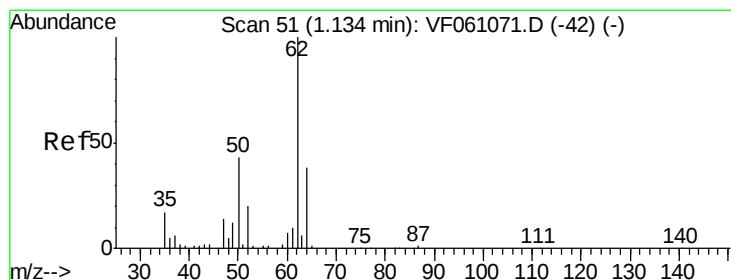
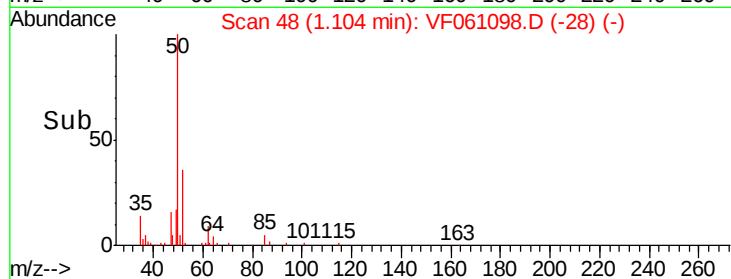
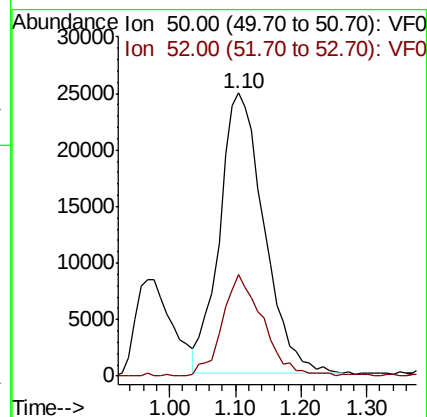
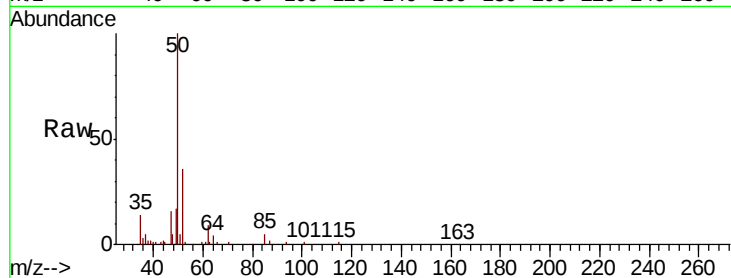
ClientSampleId :

Tot Ion: 50 Resp: 116461

Ion Ratio Lower Upper

50 100

52 35.9 26.3 39.5



#4

Vinyl Chloride

Concen: 44.472 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061098.D

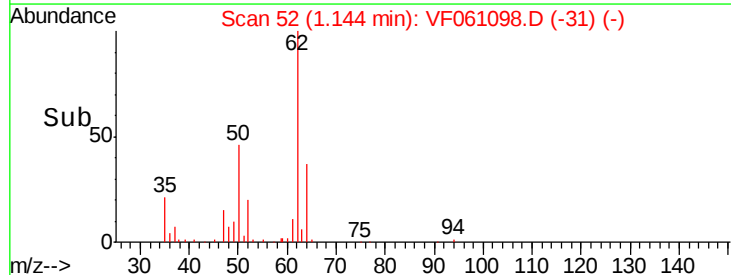
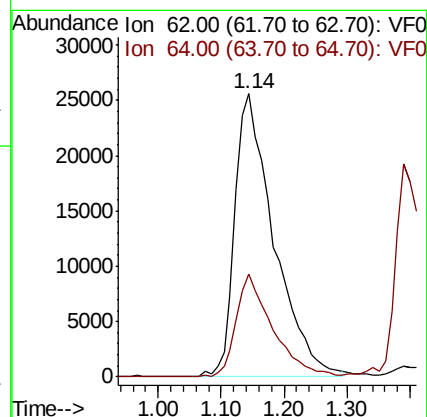
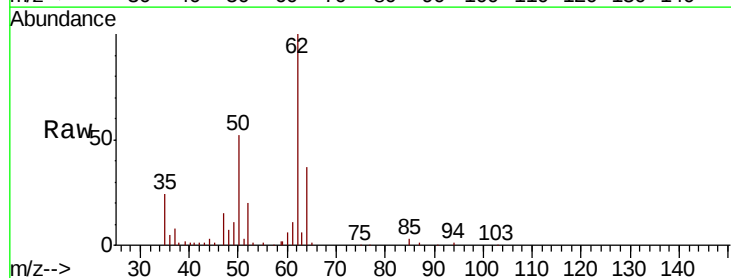
Acq: 19 Dec 2018 21:29

Tgt Ion: 62 Resp: 109932

Ion Ratio Lower Upper

62 100

64 36.5 30.4 45.6





#5

Bromomethane

Concen: 52.142 ug/l

RT: 1.34 min Scan# 72

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

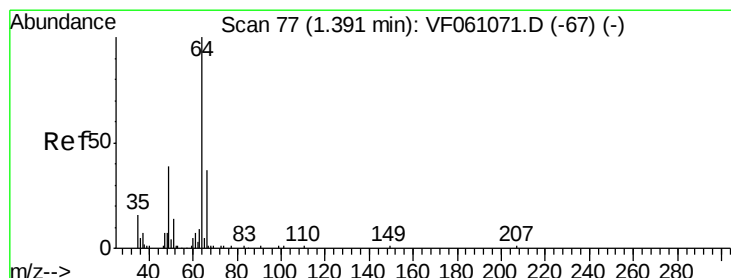
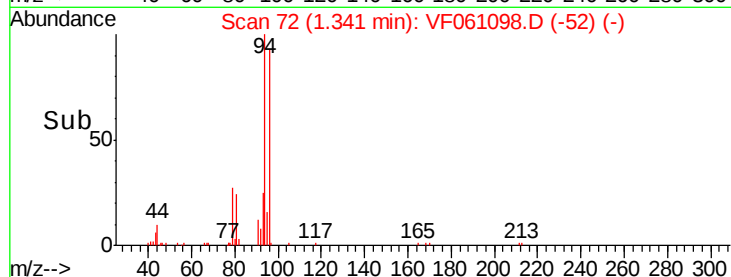
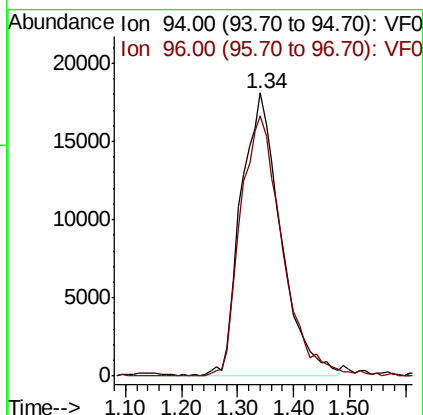
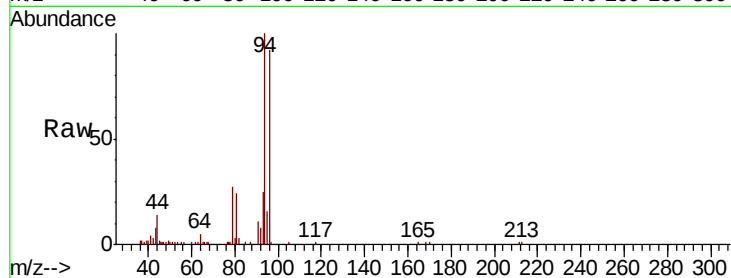
ClientSampleId :

Tot Ion: 94 Resp: 89400

Ion Ratio Lower Upper

94 100

96 91.9 74.4 111.6



#6

Chloroethane

Concen: 50.871 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061098.D

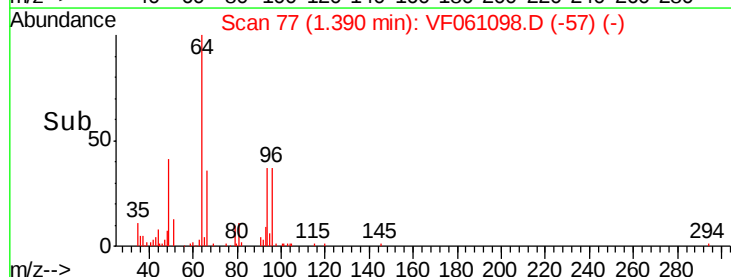
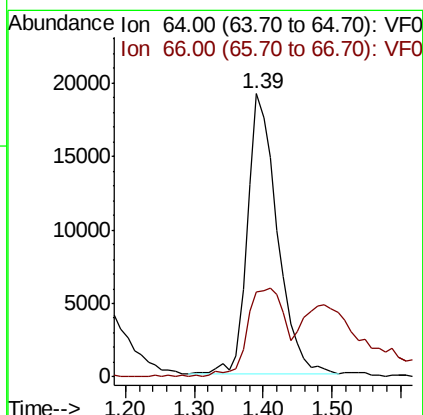
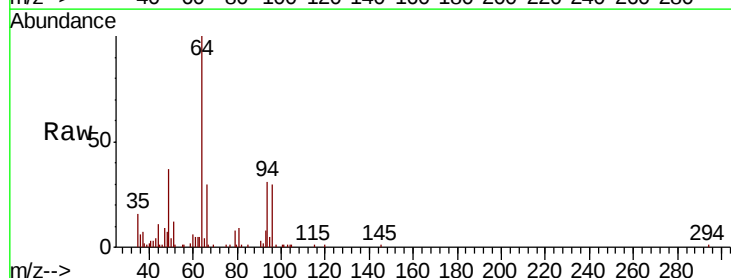
Acq: 19 Dec 2018 21:29

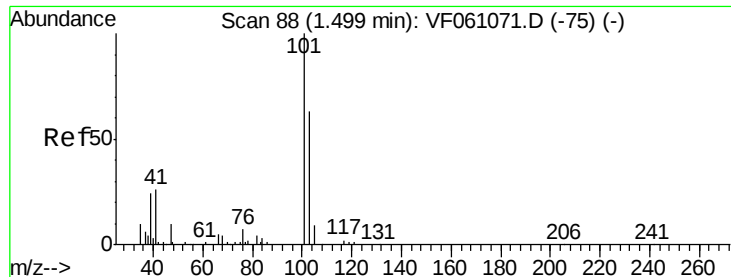
Tgt Ion: 64 Resp: 57942

Ion Ratio Lower Upper

64 100

66 29.9 30.9 46.3#





#7

Trichlorofluoromethane

Concen: 36.522 ug/l

RT: 1.49 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

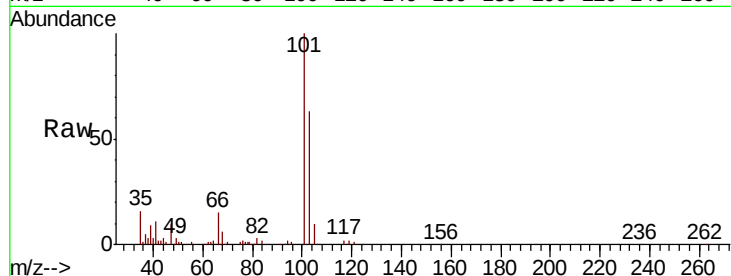
ClientSampleId :

Tot Ion:101 Resp: 172377

Ion Ratio Lower Upper

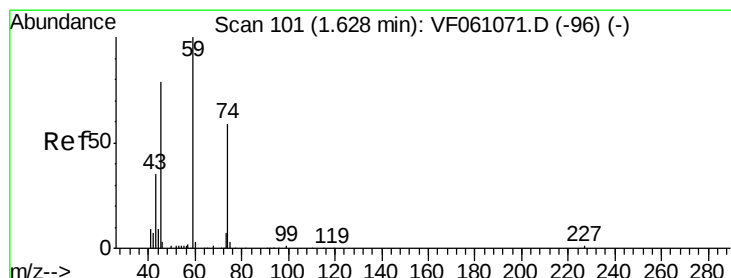
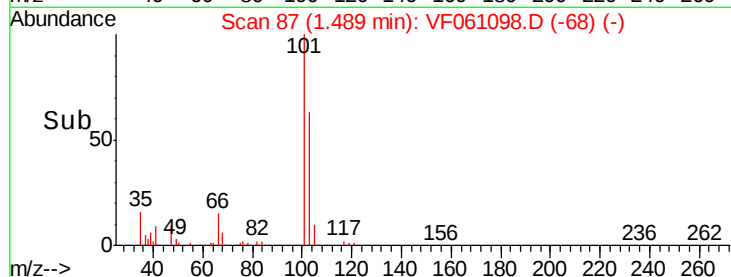
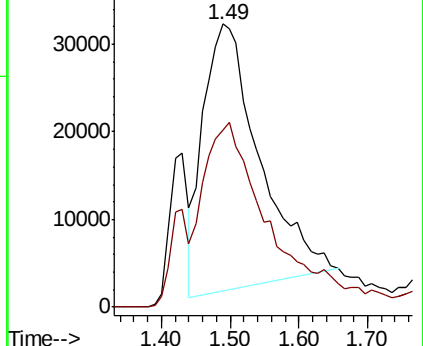
101 100

103 62.6 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: 51.784 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061098.D

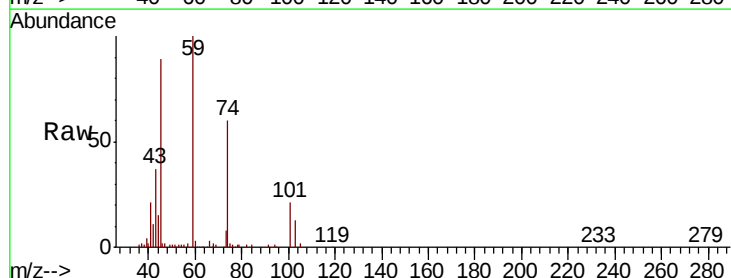
Acq: 19 Dec 2018 21:29

Tgt Ion: 74 Resp: 33469

Ion Ratio Lower Upper

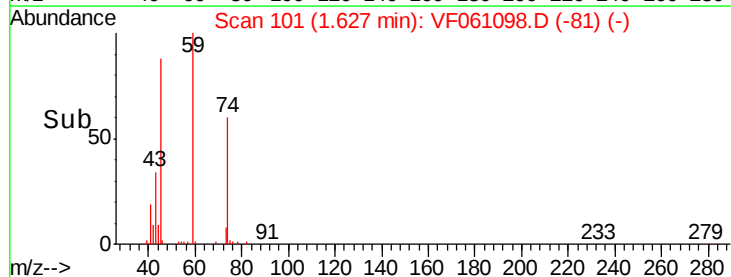
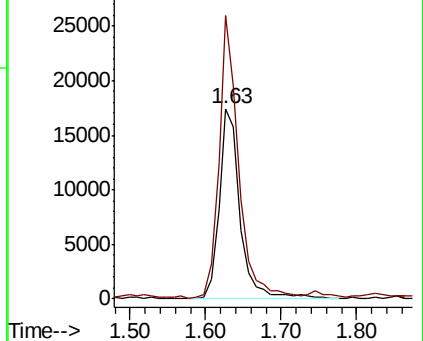
74 100

45 148.8 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.310 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

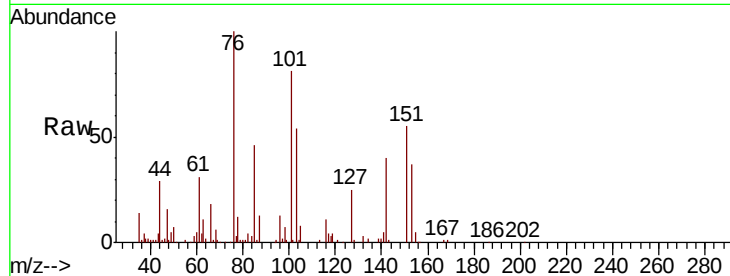
Tot Ion:101 Resp: 118225

Ion Ratio Lower Upper

101 100

85 55.9 44.5 66.7

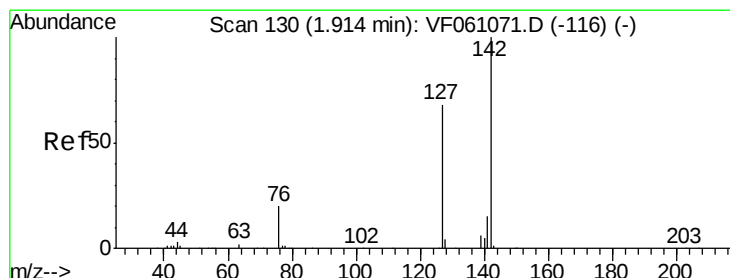
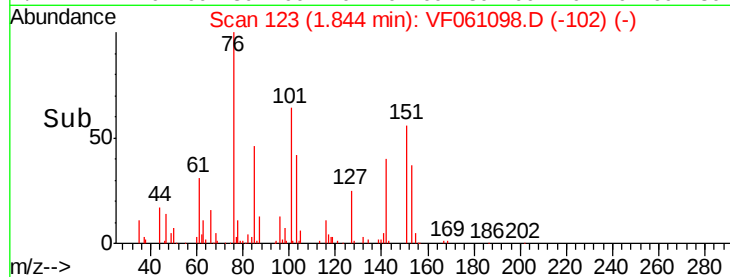
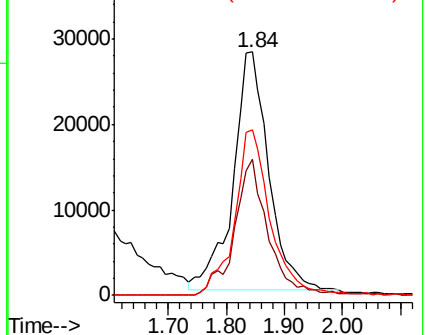
151 68.0 49.9 74.9



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



#10

Methyl Iodide

Concen: 41.315 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

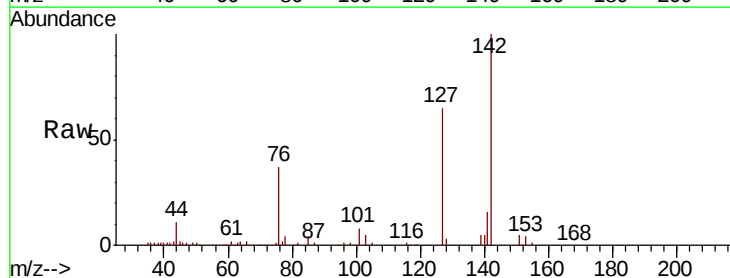
Tgt Ion:142 Resp: 159374

Ion Ratio Lower Upper

142 100

127 64.7 54.7 82.1

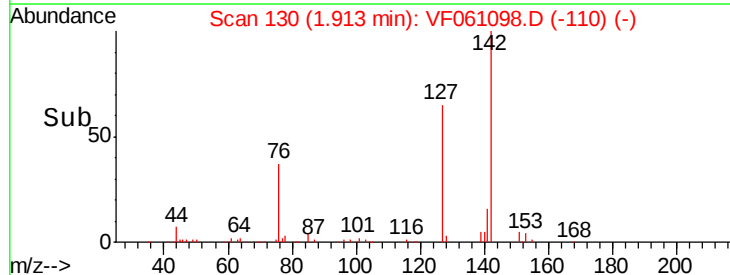
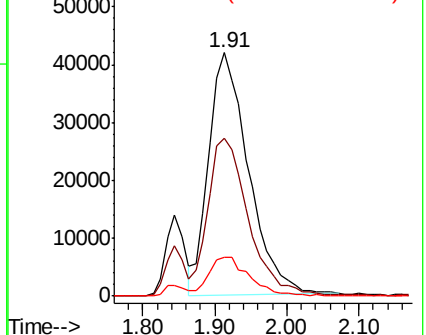
141 16.2 12.2 18.2

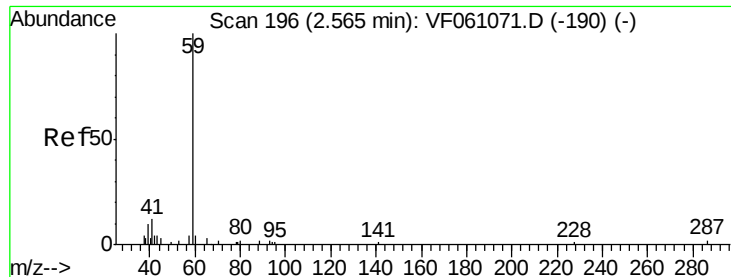


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

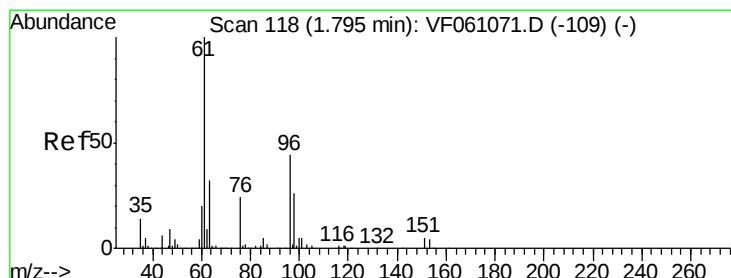
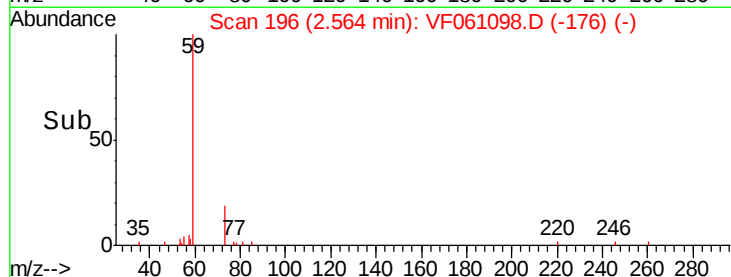
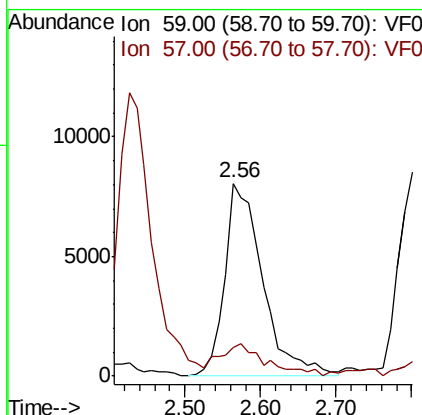
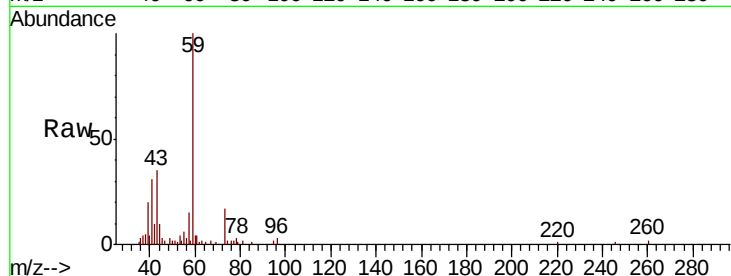




#11
Tert butyl alcohol
Concen: 259.438 ug/l
RT: 2.56 min Scan# 196
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

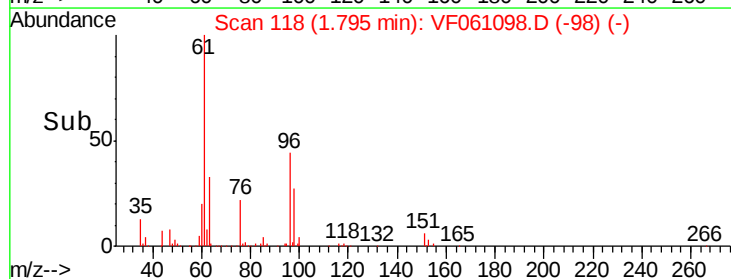
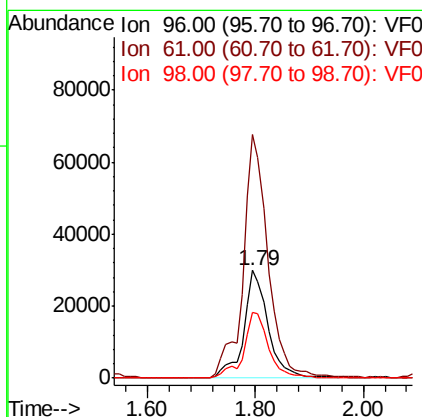
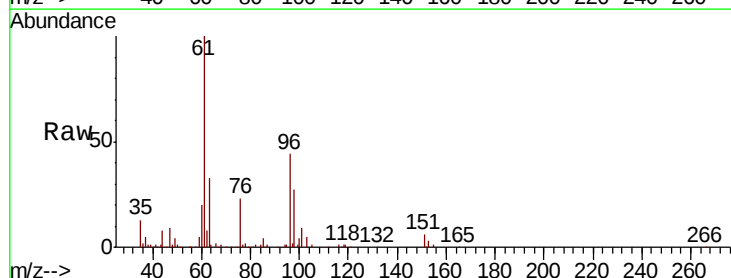
Instrument :
MSVOA_F
ClientSampled :

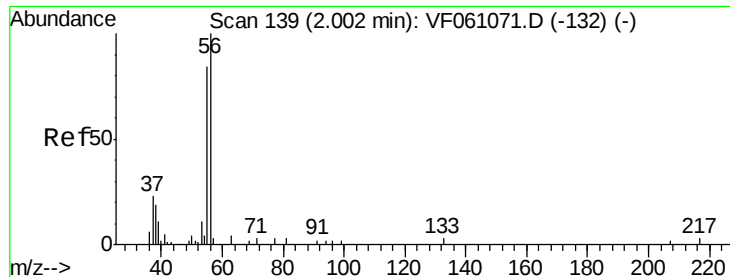
Tot Ion: 59 Resp: 28179
Ion Ratio Lower Upper
59 100
57 14.9 11.5 17.3



#12
1,1-Dichloroethene
Concen: 50.498 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion: 96 Resp: 93154
Ion Ratio Lower Upper
96 100
61 225.7 182.0 273.0
98 61.1 46.5 69.7





#13

Acrolein

Concen: 215.252 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

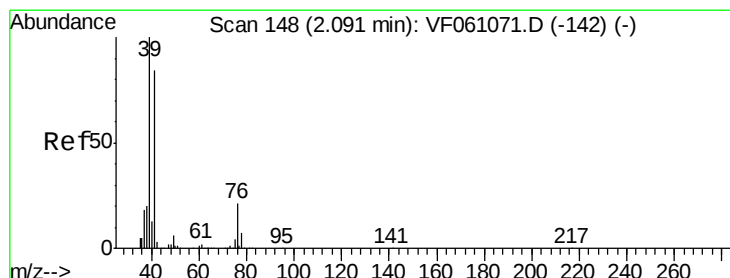
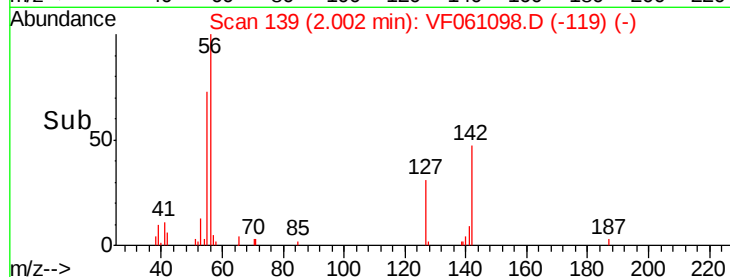
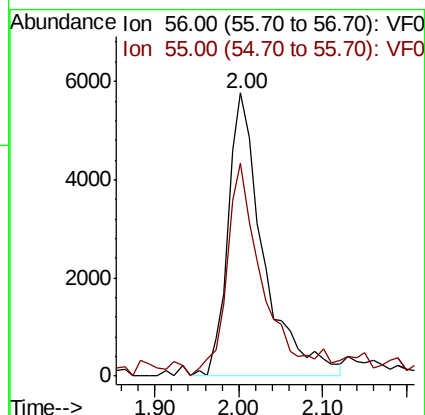
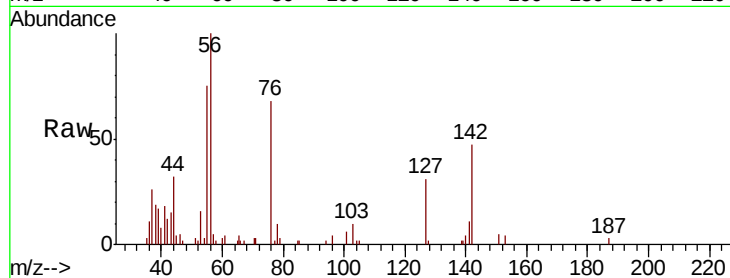
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 16894

Ion Ratio Lower Upper

56 100

55 75.5 70.2 105.2



#14

Allyl chloride

Concen: 54.388 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

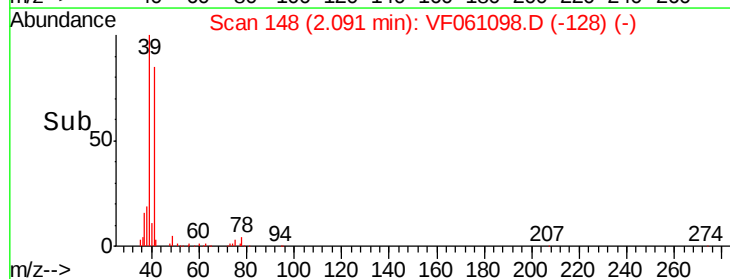
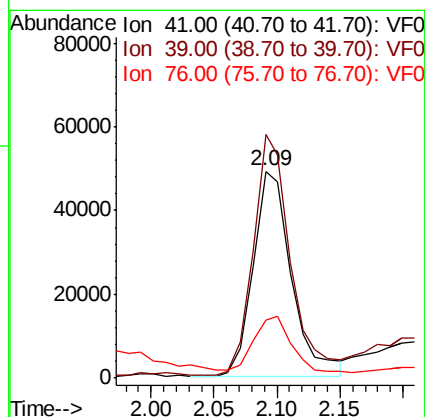
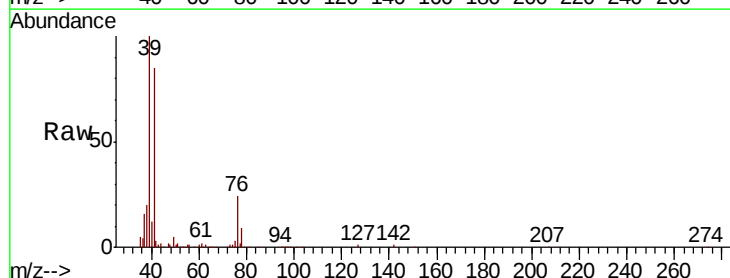
Tgt Ion: 41 Resp: 104410

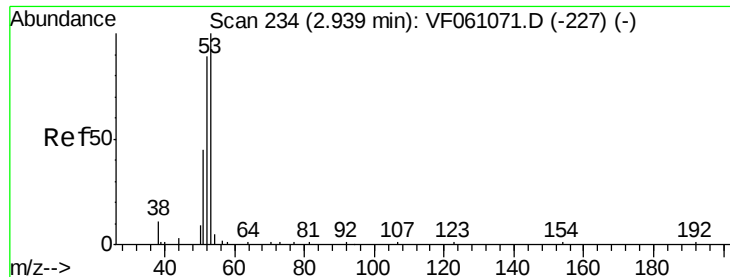
Ion Ratio Lower Upper

41 100

39 117.8 96.4 144.6

76 28.4 25.4 38.0





#15

Acrylonitrile

Concen: 254.454 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampled :

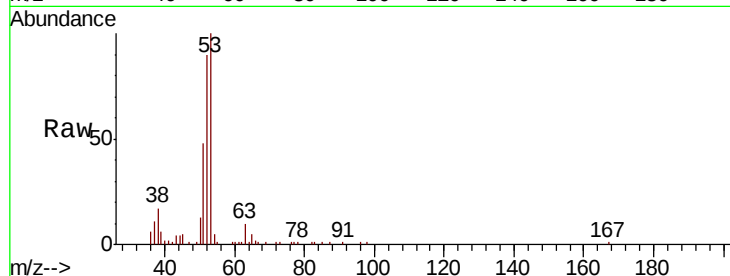
Tot Ion: 53 Resp: 63909

Ion Ratio Lower Upper

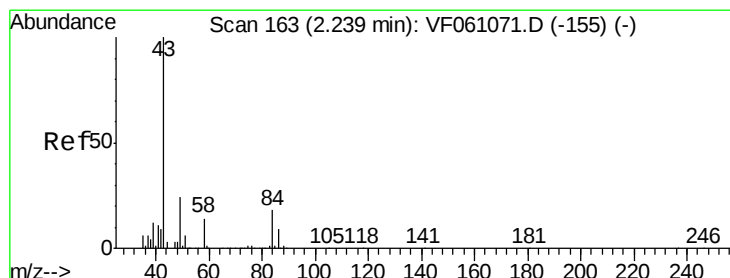
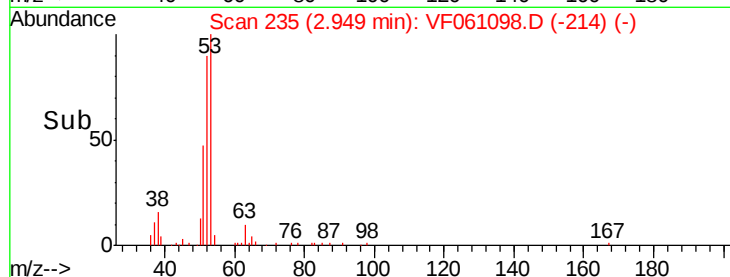
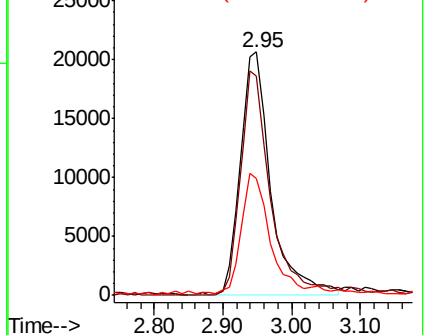
53 100

52 89.9 71.3 106.9

51 48.0 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: 207.619 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061098.D

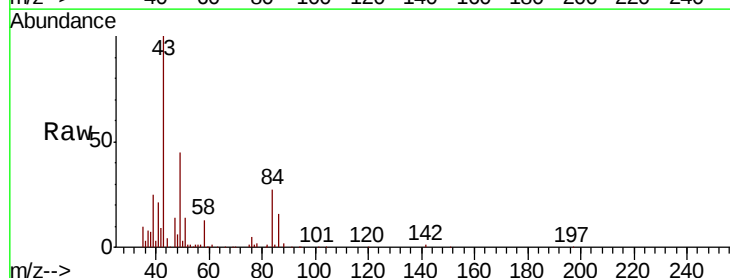
Acq: 19 Dec 2018 21:29

Tgt Ion: 43 Resp: 111714

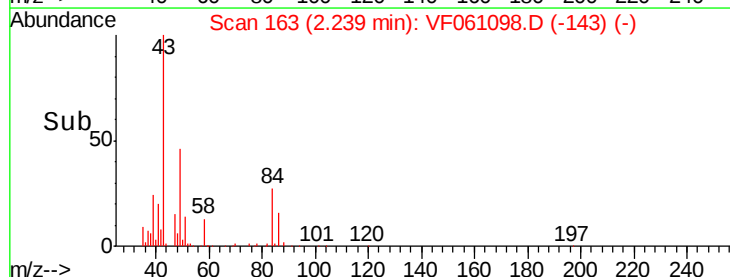
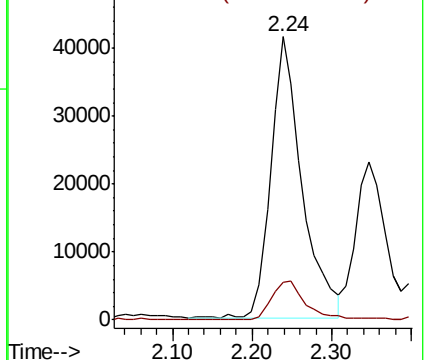
Ion Ratio Lower Upper

43 100

58 13.4 11.1 16.7



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

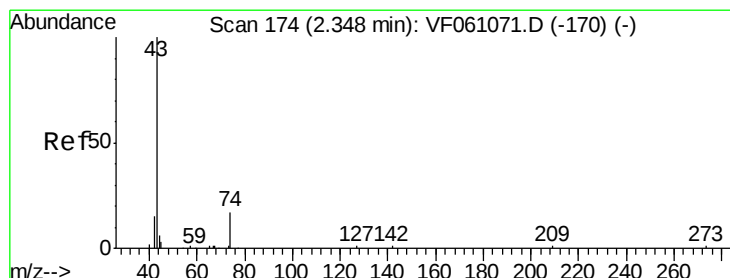
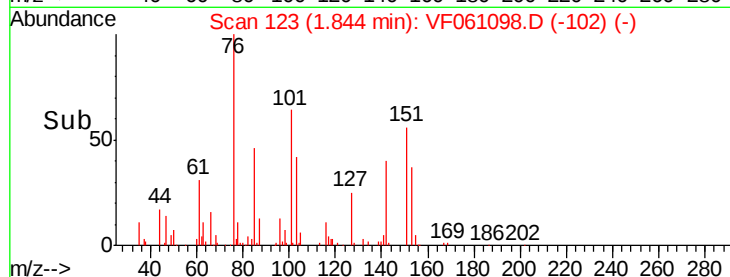
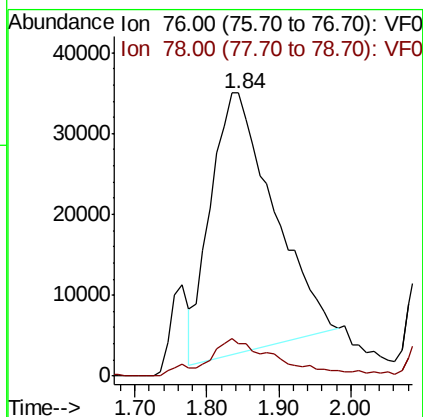
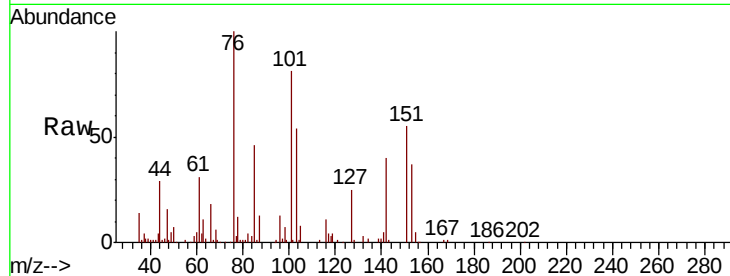




#17
Carbon Disulfide
Concen: 35.170 ug/l
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

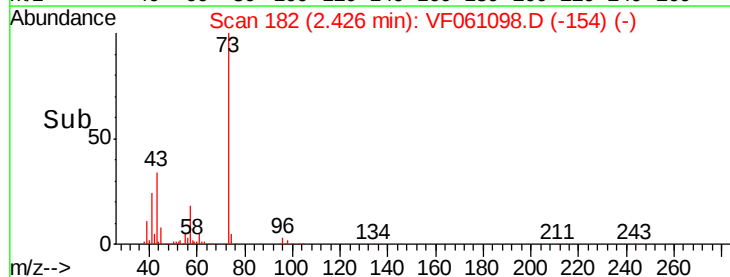
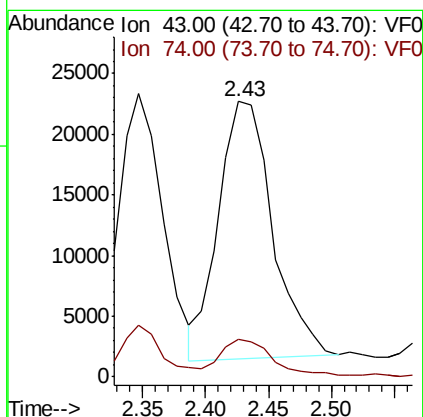
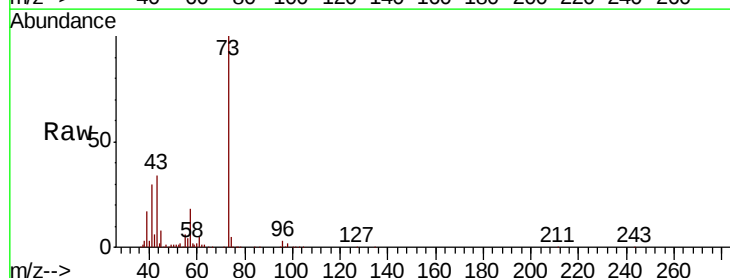
Instrument :
MSVOA_F
ClientSampled :

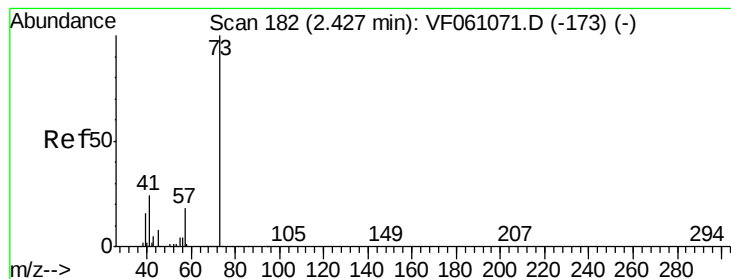
Tot Ion: 76 Resp: 196066
Ion Ratio Lower Upper
76 100
78 11.5 10.2 15.4



#18
Methyl Acetate
Concen: 56.643 ug/l
RT: 2.43 min Scan# 182
Delta R.T. 0.08 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion: 43 Resp: 63056
Ion Ratio Lower Upper
43 100
74 13.9 11.0 16.6



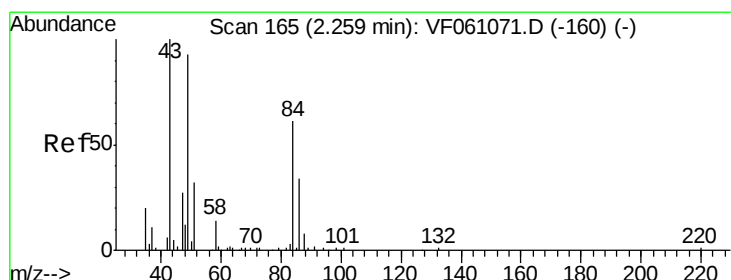
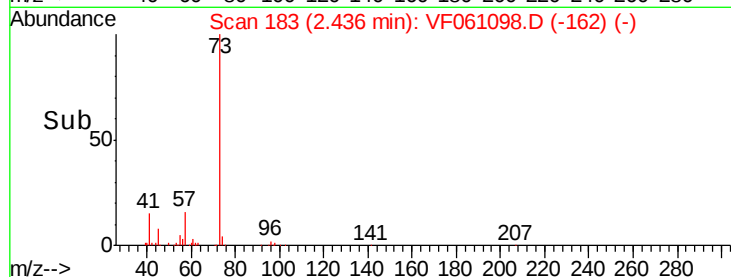
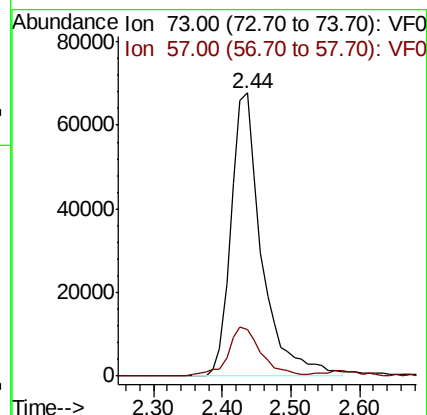
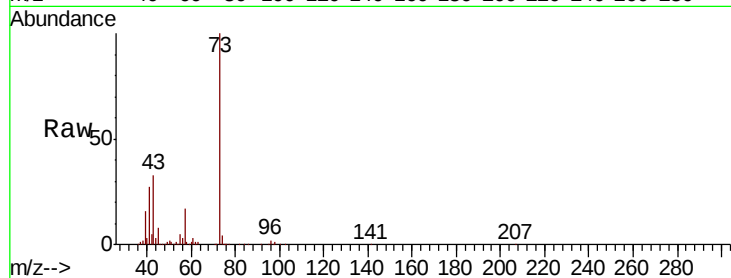


#19

Methyl tert-butyl Ether
 Concen: 51.156 ug/l
 RT: 2.44 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Instrument :
 MSVOA_F
 ClientSampled :

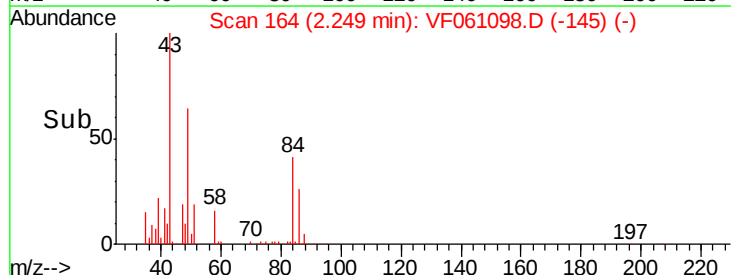
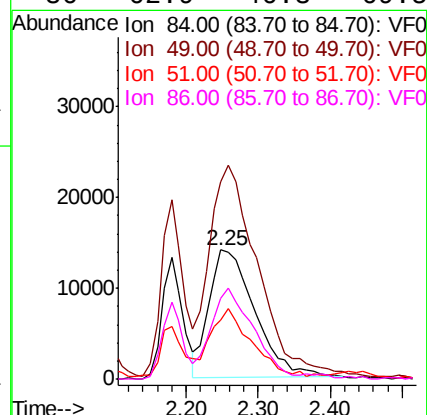
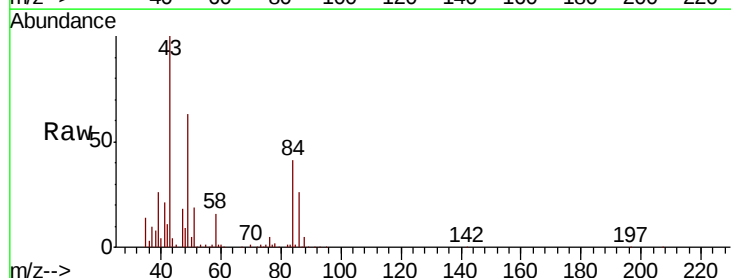
Tot Ion: 73 Resp: 209464
 Ion Ratio Lower Upper
 73 100
 57 16.5 14.5 21.7

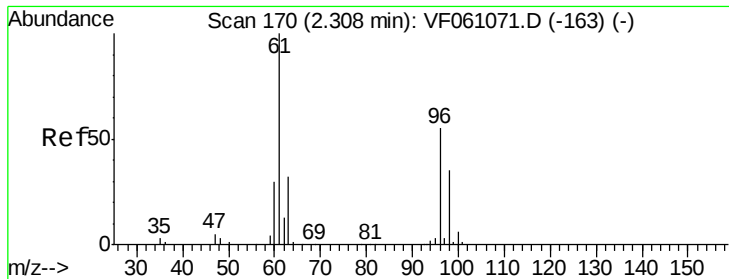


#20

Methylene Chloride
 Concen: 34.430 ug/l
 RT: 2.25 min Scan# 164
 Delta R.T. -0.01 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Tgt Ion: 84 Resp: 61605
 Ion Ratio Lower Upper
 84 100
 49 152.6 129.4 194.2
 51 45.7 44.0 66.0
 86 62.9 46.3 69.5





#21

trans-1,2-Dichloroethene

Concen: 34.286 ug/l

RT: 2.31 min Scan# 170

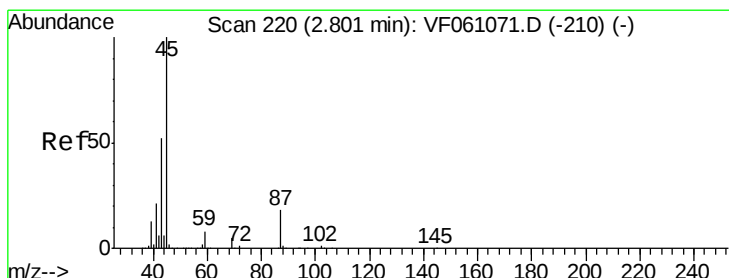
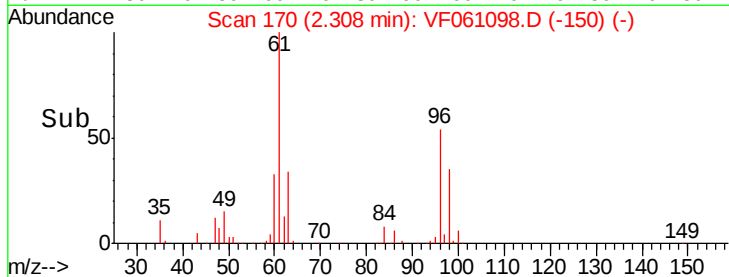
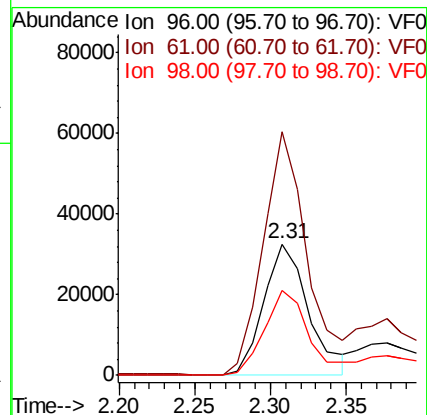
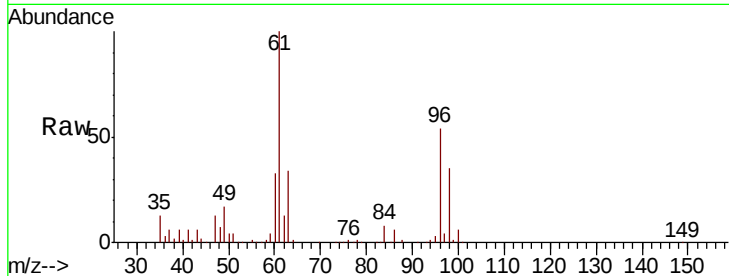
Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	96	Resp:	67647
Ion	Ratio	Lower	Upper
96	100		
61	185.8	146.0	219.0
98	64.3	51.6	77.4



#22

Diisopropyl ether

Concen: 47.979 ug/l

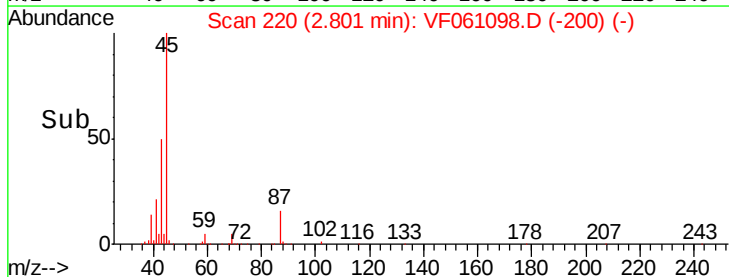
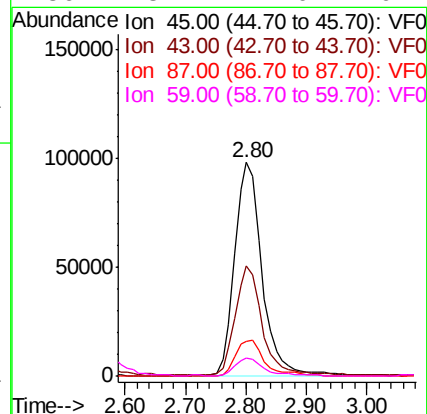
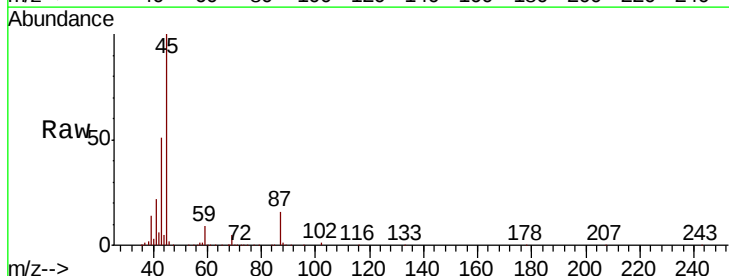
RT: 2.80 min Scan# 220

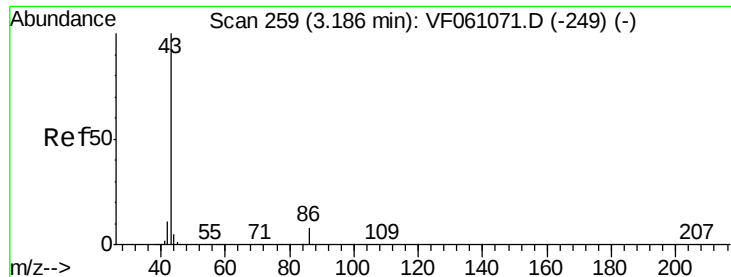
Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Tgt Ion:	45	Resp:	306809
Ion	Ratio	Lower	Upper
45	100		
43	51.4	42.2	63.2
87	16.2	14.6	22.0
59	8.7	7.0	10.4

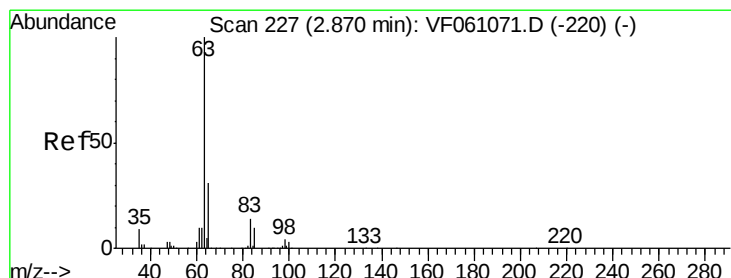
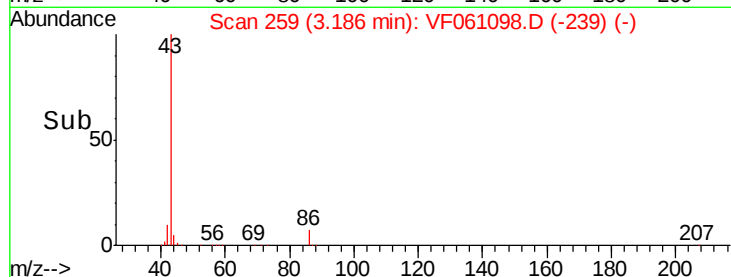
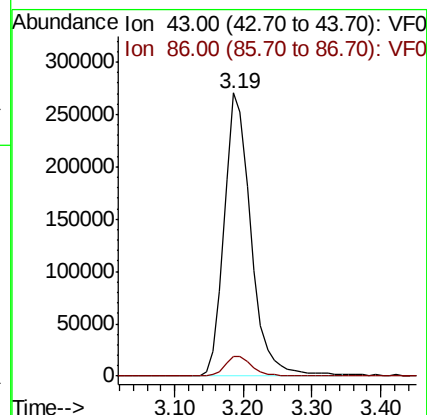
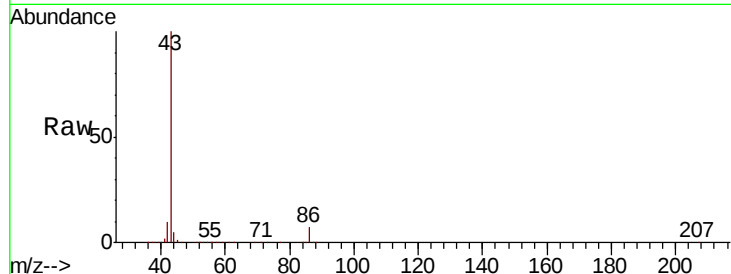




#23
 Vinyl Acetate
 Concen: 245.644 ug/l
 RT: 3.19 min Scan# 259
 Delta R.T. -0.00 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

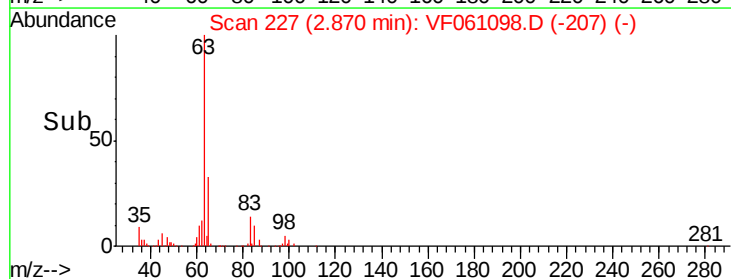
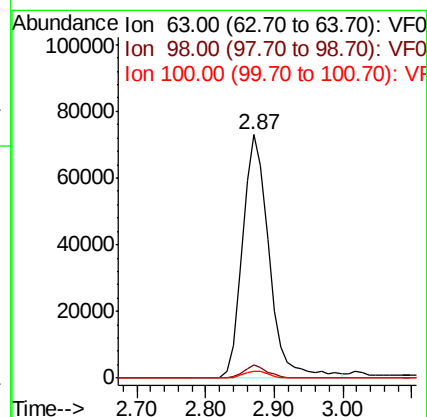
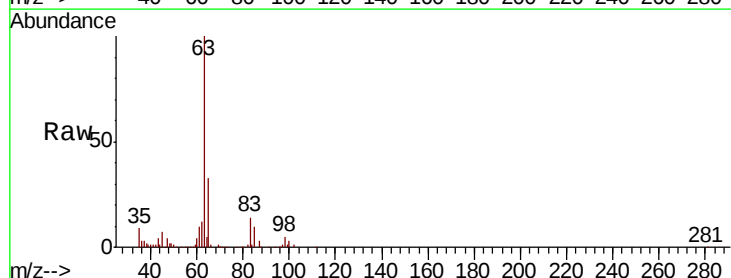
Instrument :
 MSVOA_F
 ClientSampleId :

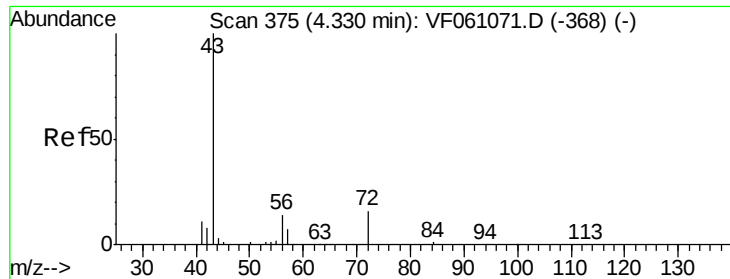
Tot Ion: 43 Resp: 724643
 Ion Ratio Lower Upper
 43 100
 86 7.1 6.3 9.5



#24
 1,1-Dichloroethane
 Concen: 51.684 ug/l
 RT: 2.87 min Scan# 227
 Delta R.T. -0.00 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Tgt Ion: 63 Resp: 195819
 Ion Ratio Lower Upper
 63 100
 98 5.3 2.1 6.5
 100 3.0 1.7 5.1





#25

2-Butanone

Concen: 235.161 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

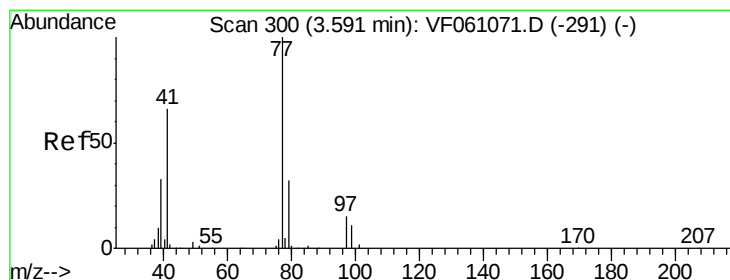
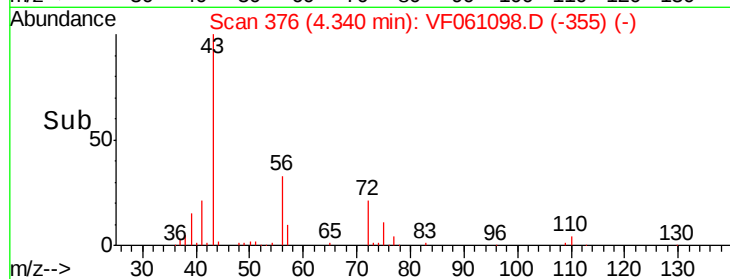
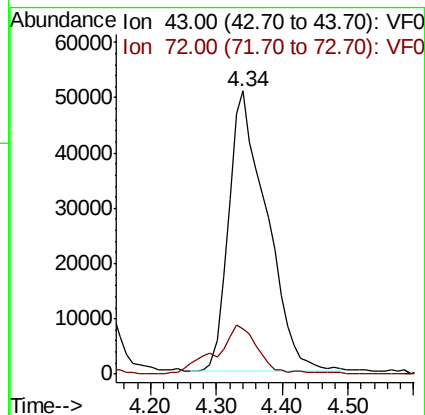
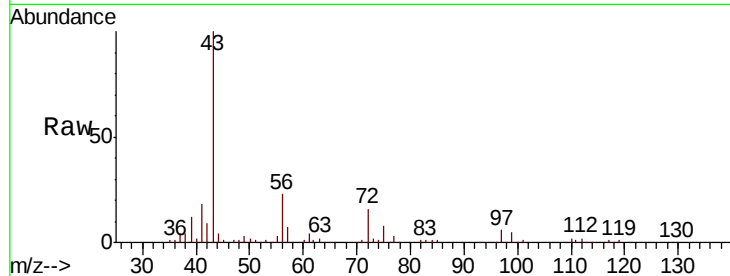
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 205213

Ion Ratio Lower Upper

43 100

72 16.2 15.6 23.4



#26

2,2-Dichloropropane

Concen: 49.125 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061098.D

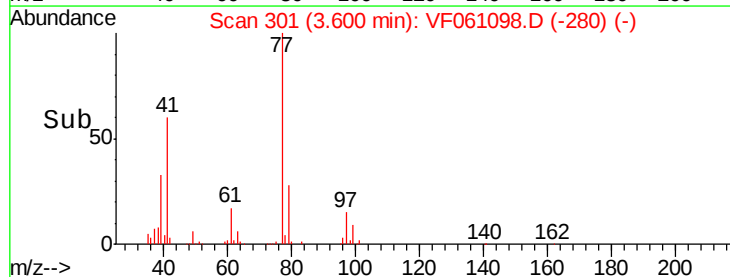
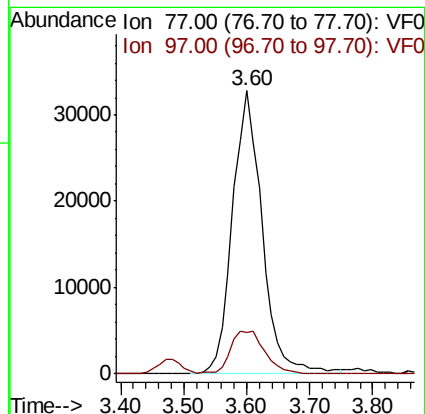
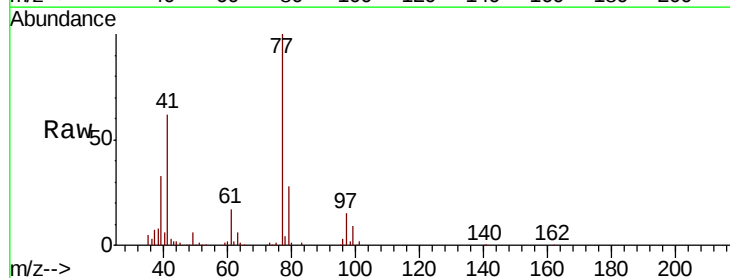
Acq: 19 Dec 2018 21:29

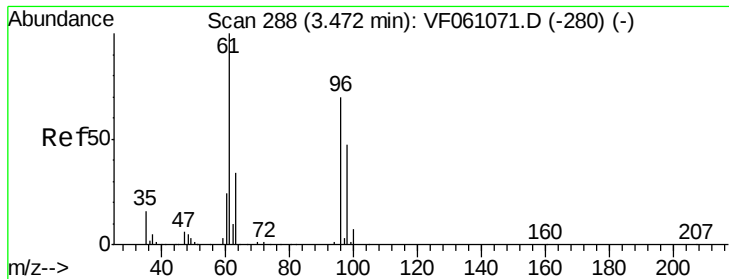
Tgt Ion: 77 Resp: 106813

Ion Ratio Lower Upper

77 100

97 14.7 8.2 24.4



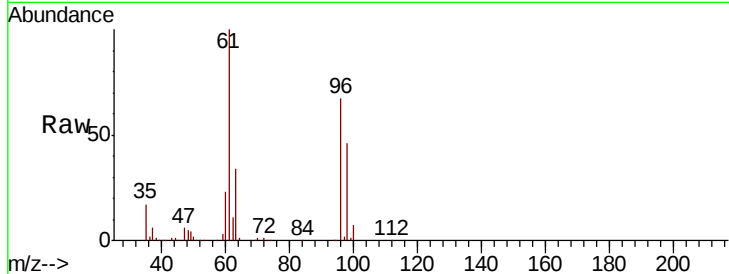


#27

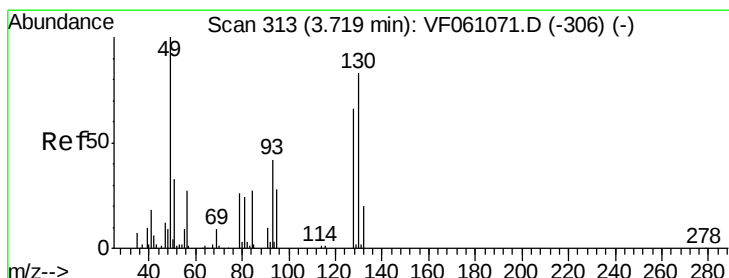
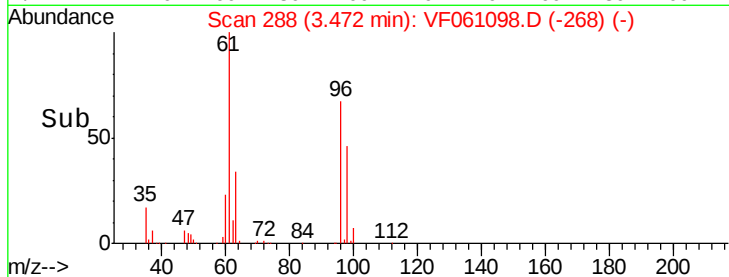
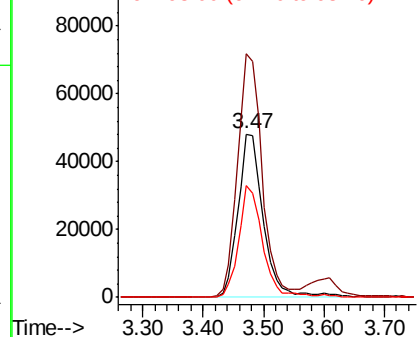
cis-1,2-Dichloroethene
Concen: 46.319 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.8	0.0	287.8
98	68.2	0.0	134.2



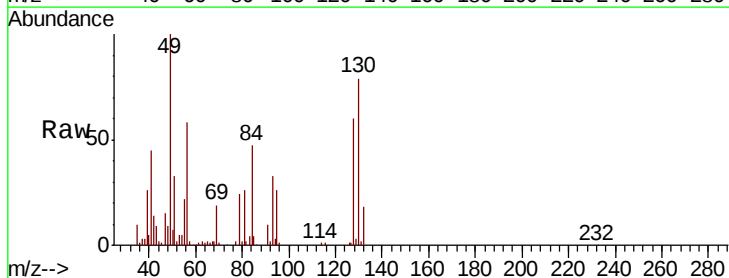
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



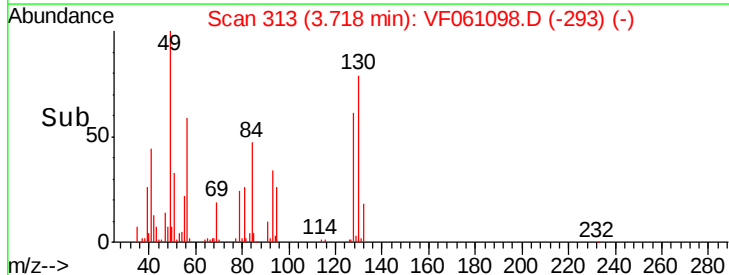
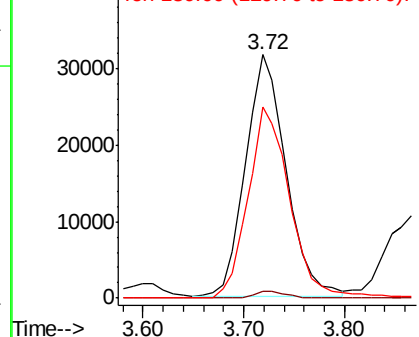
#28

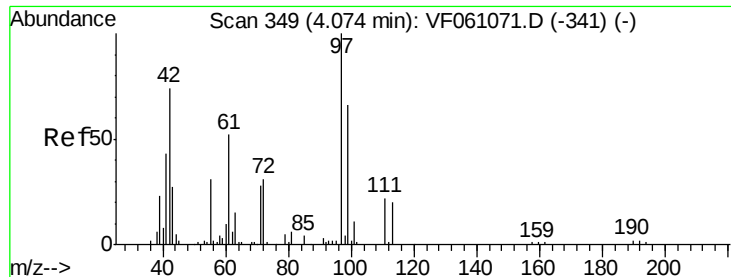
Bromochloromethane
Concen: 46.323 ug/l
RT: 3.72 min Scan# 313
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.9	0.0	3.6
130	78.6	65.8	98.6



Abundance Ion 49.00 (48.70 to 49.70): VF0
Ion 129.00 (128.70 to 129.70): V
Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 258.316 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

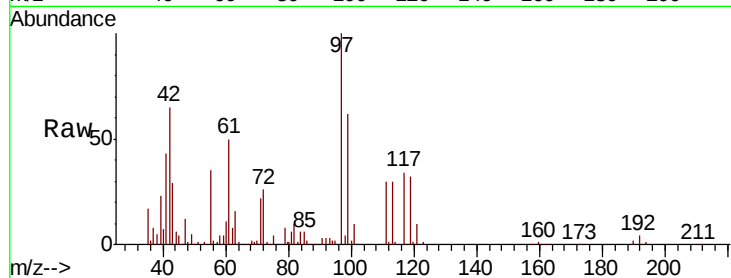
Tot Ion: 42 Resp: 91748

Ion Ratio Lower Upper

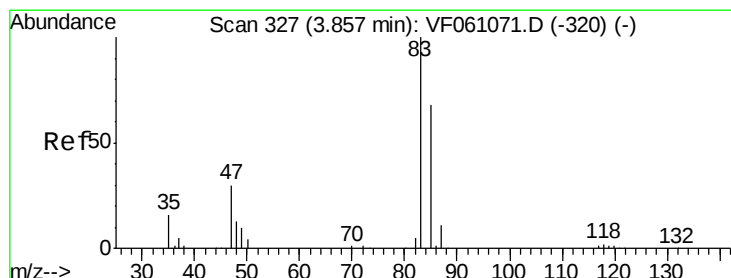
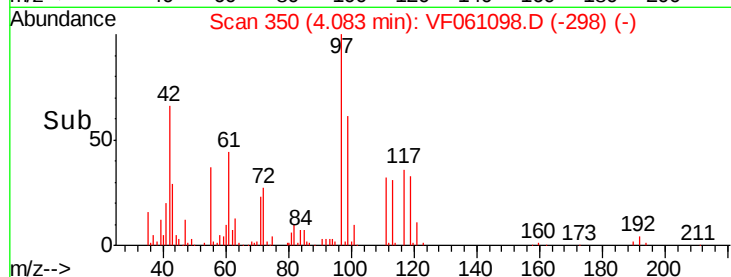
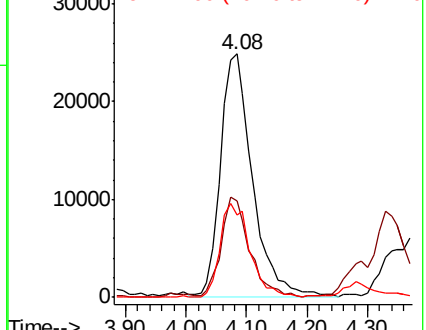
42 100

72 36.6 31.8 47.8

71 35.9 29.7 44.5



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 50.291 ug/l

RT: 3.87 min Scan# 328

Delta R.T. 0.01 min

Lab File: VF061098.D

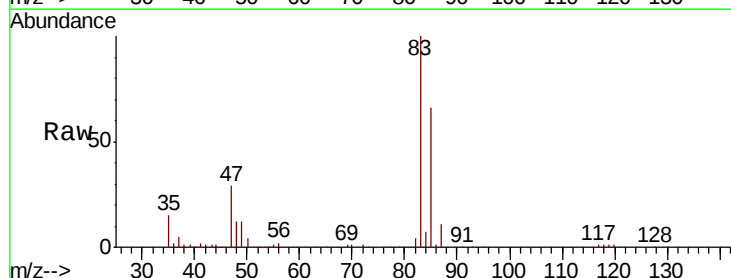
Acq: 19 Dec 2018 21:29

Tgt Ion: 83 Resp: 285702

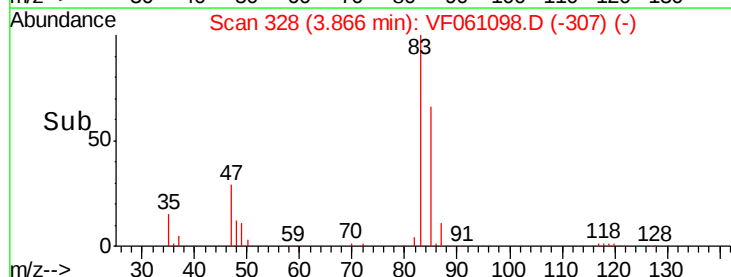
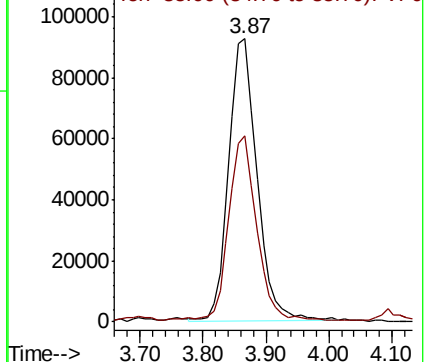
Ion Ratio Lower Upper

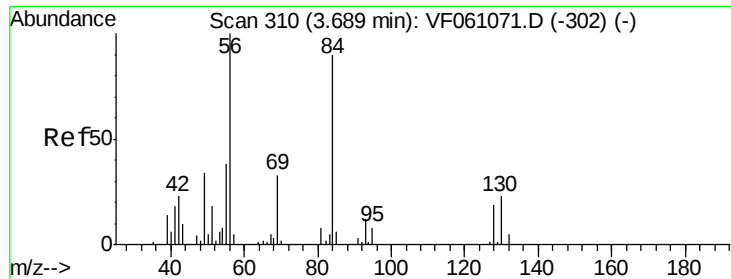
83 100

85 65.9 54.5 81.7



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0

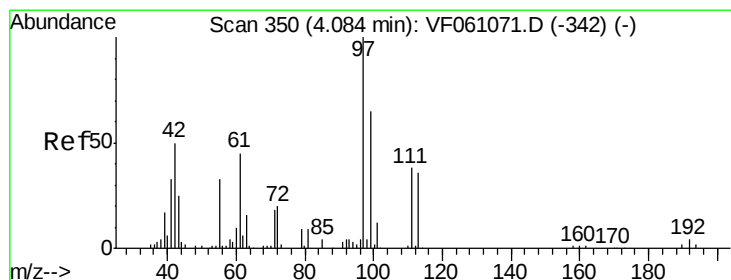
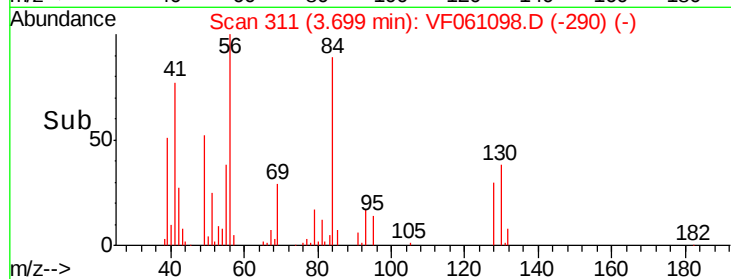
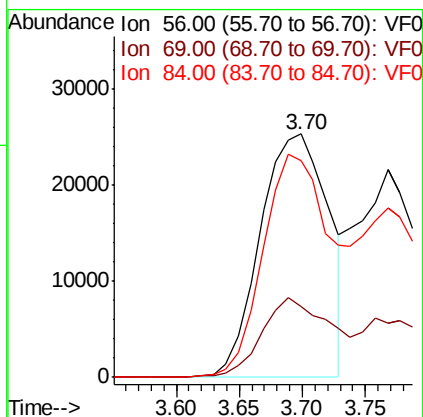
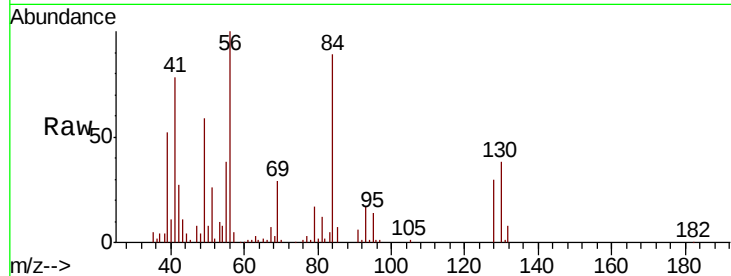




#31
Cvclohexane
Concen: 24.341 ug/l
RT: 3.70 min Scan# 311
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

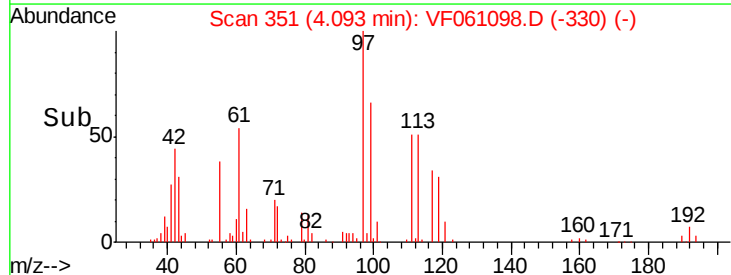
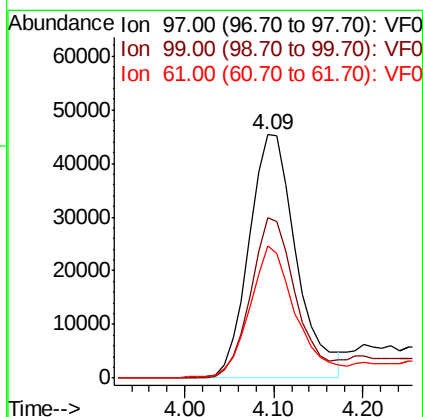
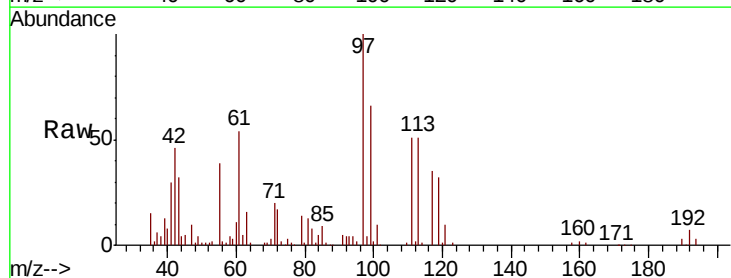
Instrument :
MSVOA_F
ClientSampleId :

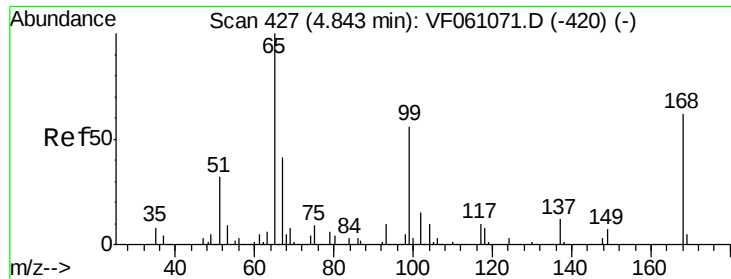
Tot Ion: 56 Resp: 95696
Ion Ratio Lower Upper
56 100
69 29.1 26.0 39.0
84 89.3 71.4 107.2



#32
1,1,1-Trichloroethane
Concen: 49.066 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion: 97 Resp: 167075
Ion Ratio Lower Upper
97 100
99 66.1 51.6 77.4
61 54.1 36.2 54.2

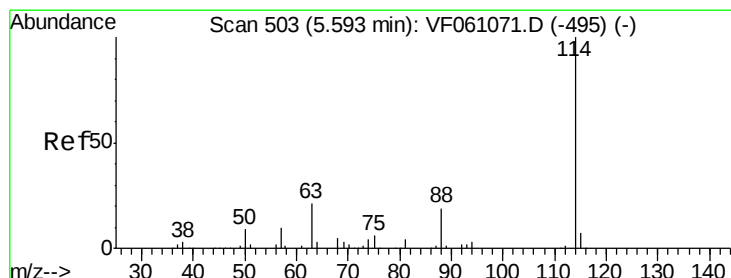
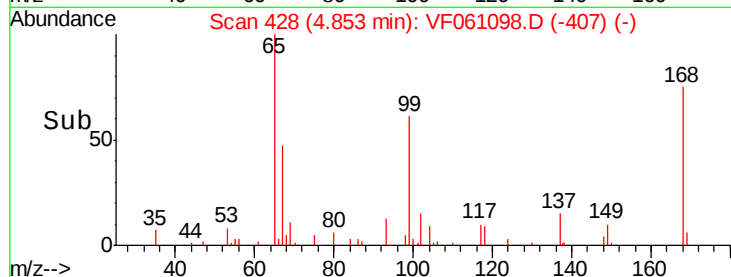
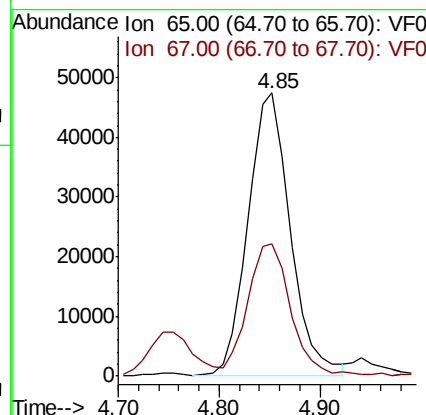
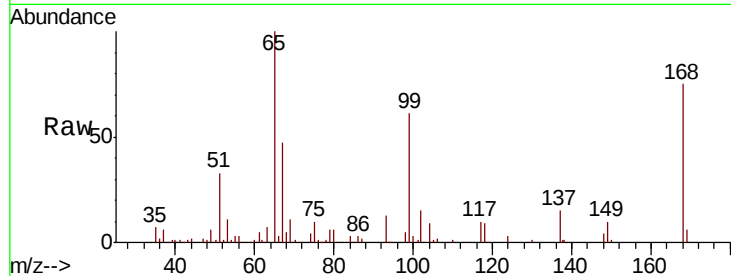




#33
 1,2-Dichloroethane-d4
 Concen: 51.366 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.01 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

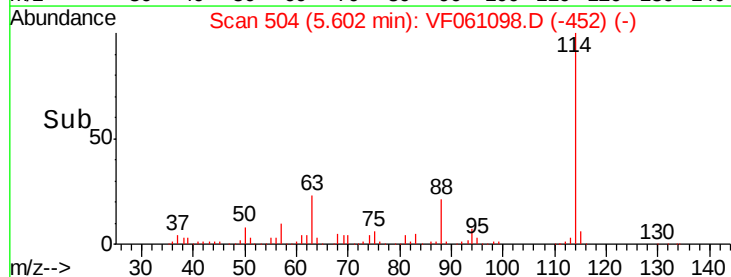
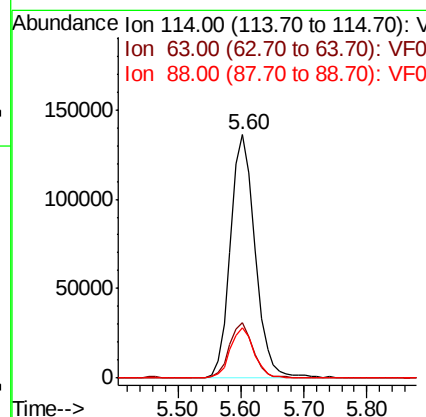
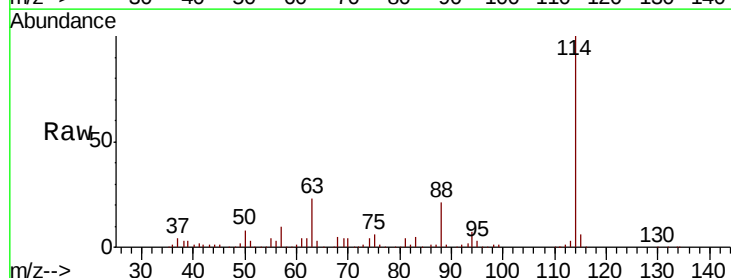
Instrument :
 MSVOA_F
 ClientSampleId :

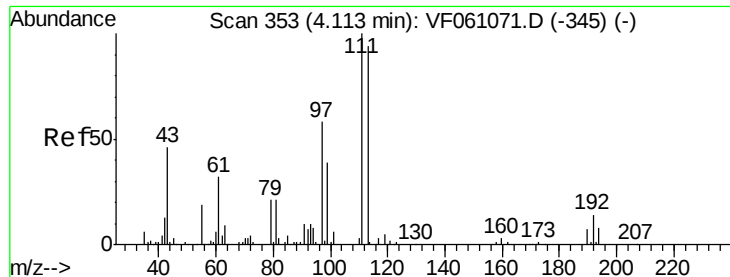
Tot Ion: 65 Resp: 138255
 Ion Ratio Lower Upper
 65 100
 67 46.8 0.0 94.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Tgt Ion: 114 Resp: 369750
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 41.6
 88 20.8 0.0 38.0

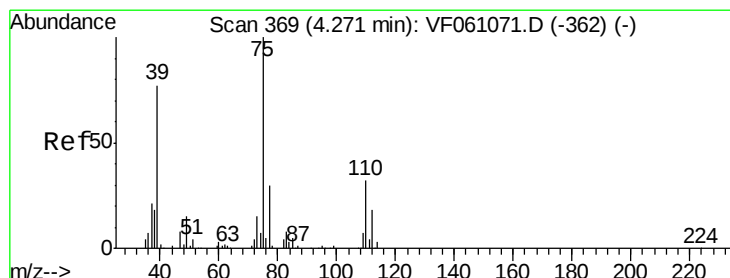
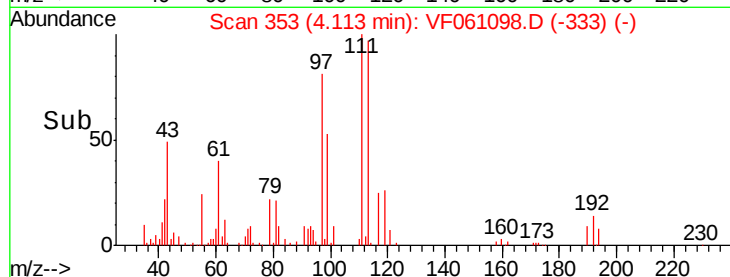
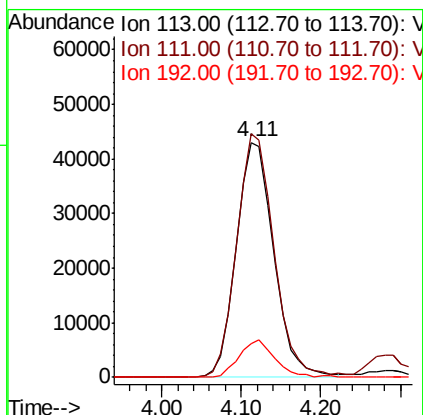
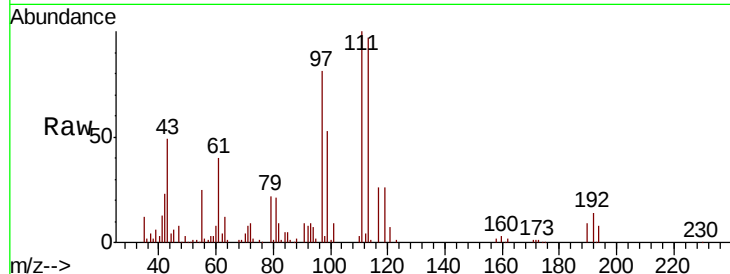




#35
 Dibromofluoromethane
 Concen: 47.404 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

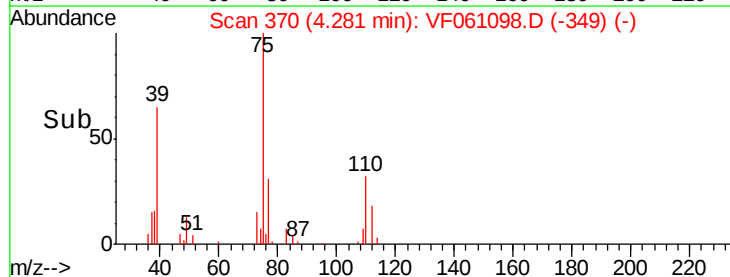
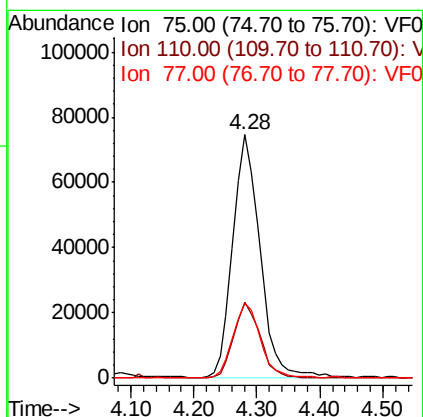
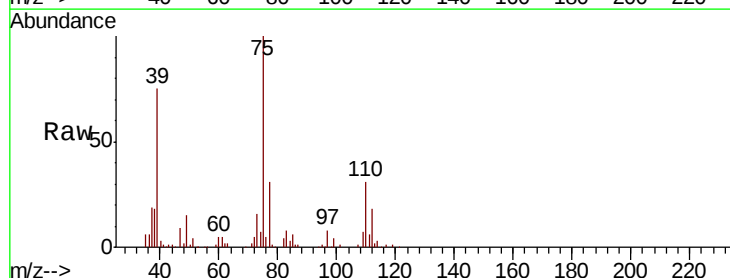
Instrument :
 MSVOA_F
 ClientSampleId :

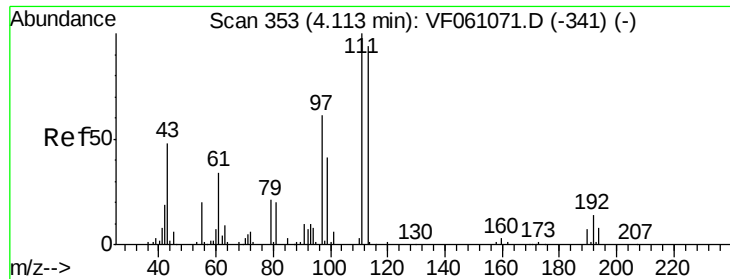
Tot Ion:113 Resp: 140407
 Ion Ratio Lower Upper
 113 100
 111 103.5 85.2 127.8
 192 14.3 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 50.126 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Tgt Ion: 75 Resp: 223719
 Ion Ratio Lower Upper
 75 100
 110 31.3 16.1 48.2
 77 30.8 24.5 36.7

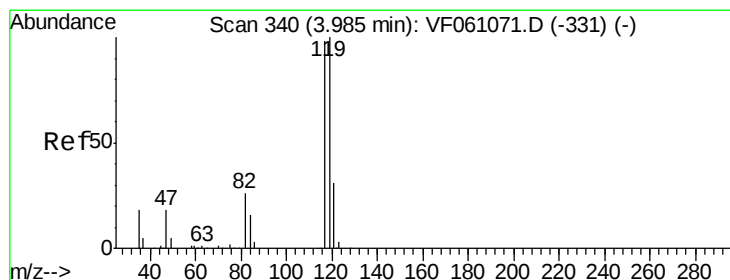
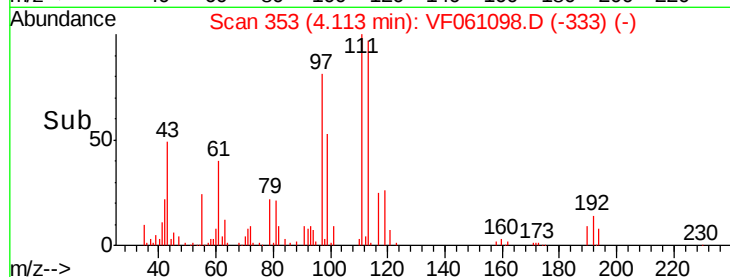
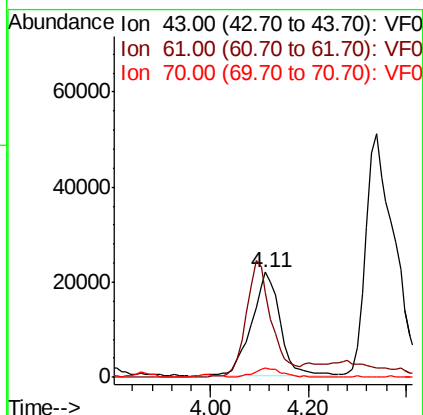
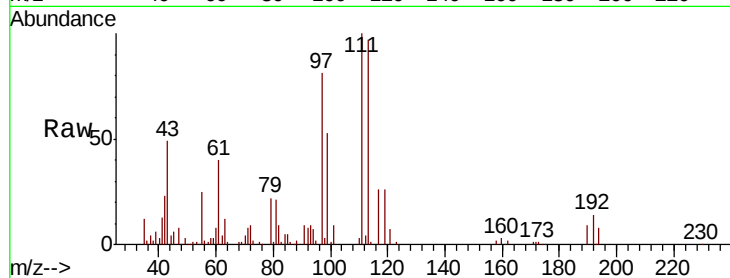




#37
Ethyl Acetate
Concen: 51.901 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

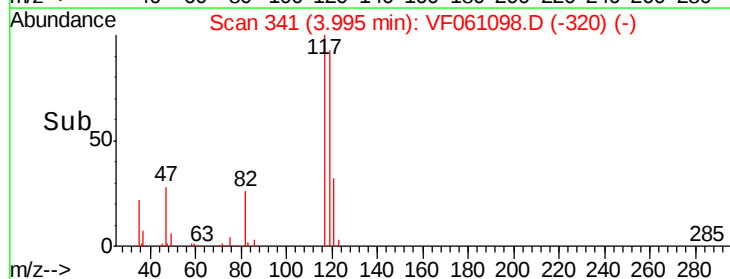
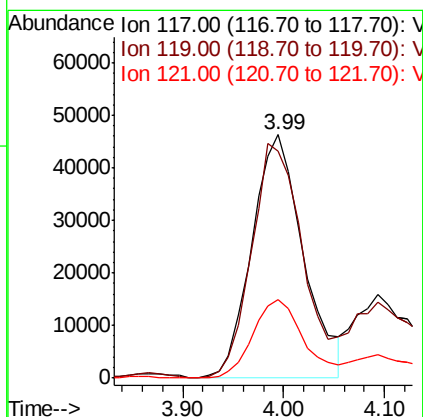
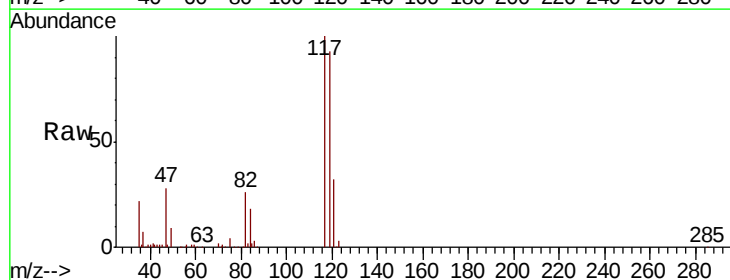
Instrument :
MSVOA_F
ClientSampleId :

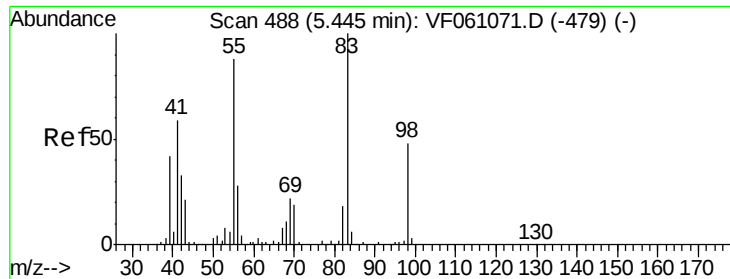
Tot Ion: 43 Resp: 89487
Ion Ratio Lower Upper
43 100
61 81.1 56.6 84.8
70 8.5 6.3 9.5



#38
Carbon Tetrachloride
Concen: 48.492 ug/l
RT: 3.99 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion: 117 Resp: 164817
Ion Ratio Lower Upper
117 100
119 93.5 82.1 123.1
121 32.2 25.5 38.3

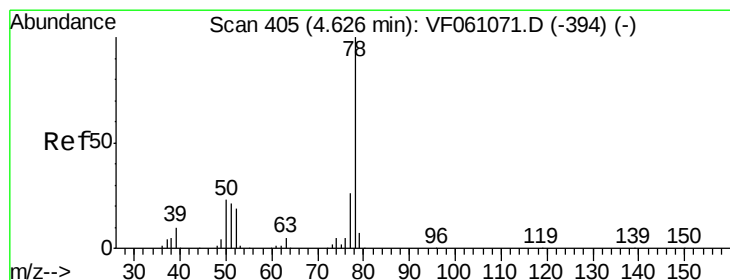
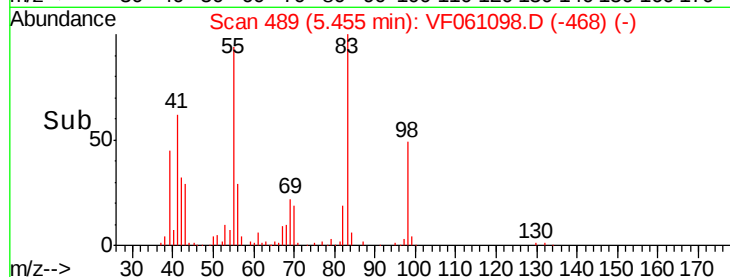
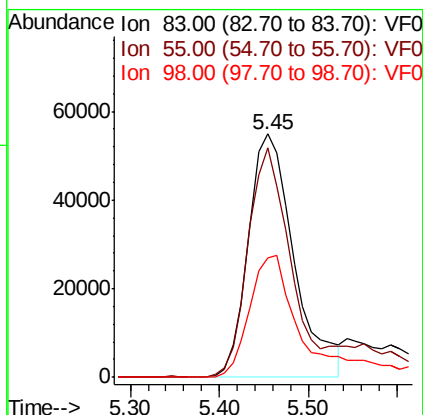
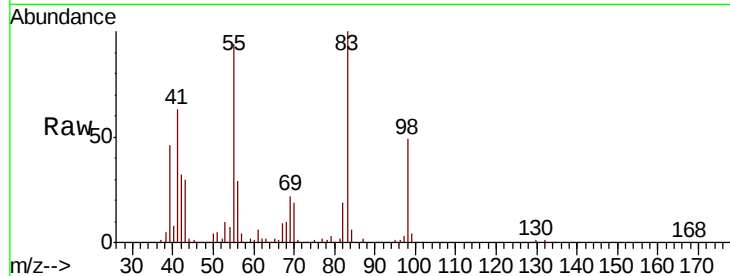




#39
Methvlcvclohexane
Concen: 48.942 ug/l
RT: 5.45 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

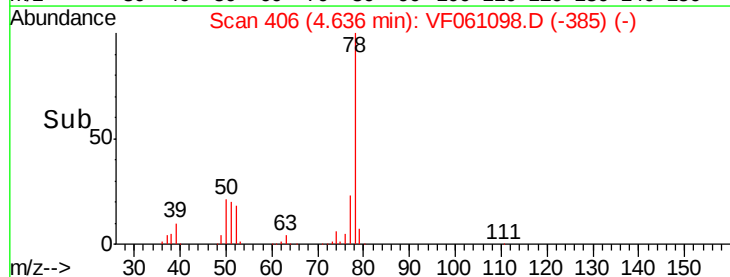
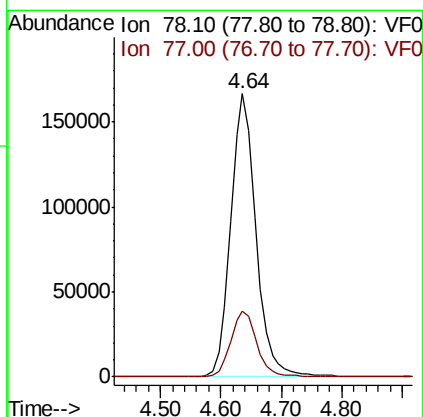
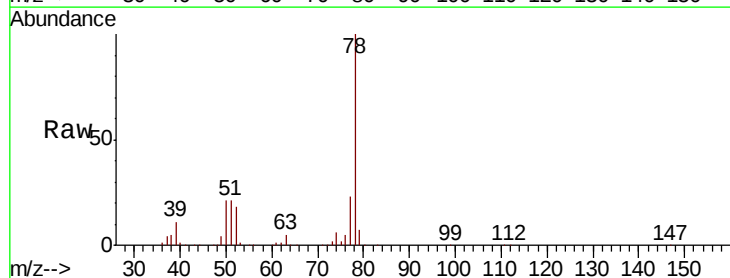
Instrument :
MSVOA_F
ClientSampleId :

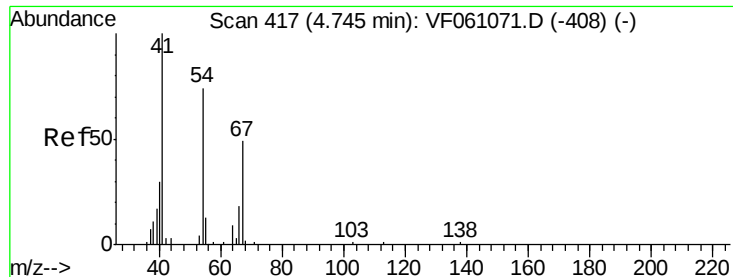
Tot Ion: 83 Resp: 195966
Ion Ratio Lower Upper
83 100
55 94.3 70.6 105.8
98 49.0 38.5 57.7



#40
Benzene
Concen: 50.288 ug/l
RT: 4.64 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion: 78 Resp: 482663
Ion Ratio Lower Upper
78 100
77 23.3 20.7 31.1

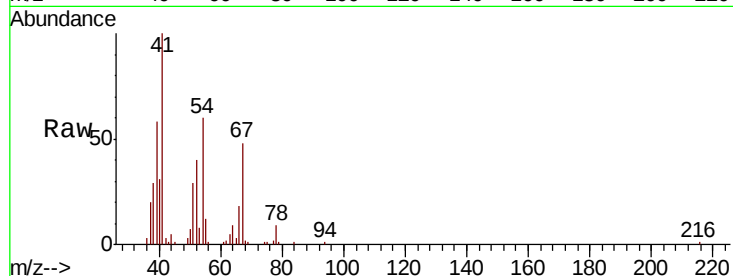




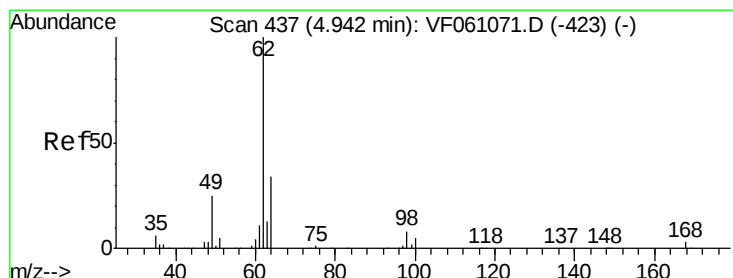
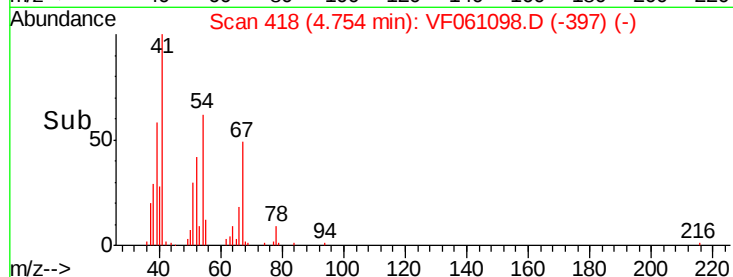
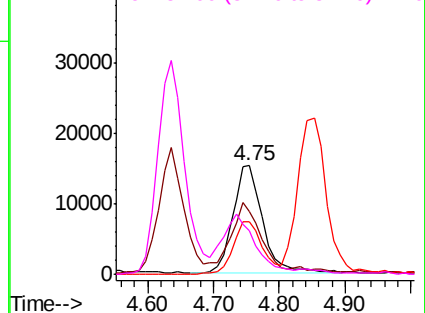
#41
Methacrylonitrile
Concen: 50.472 ug/l
RT: 4.75 min Scan# 418
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	47573
Ion	Ratio	Lower	Upper
41	100		
39	58.0	45.7	68.5
67	47.8	38.9	58.3
52	40.4	35.2	52.8

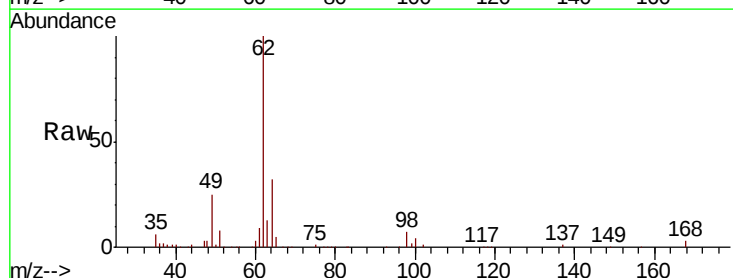


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

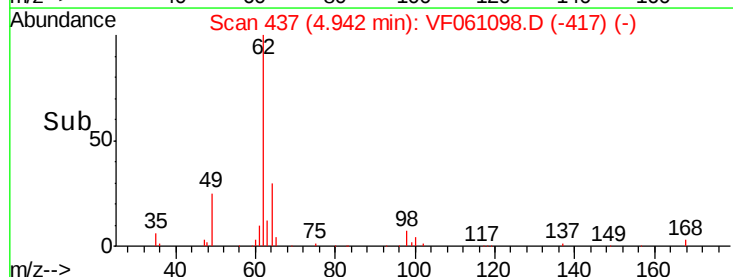
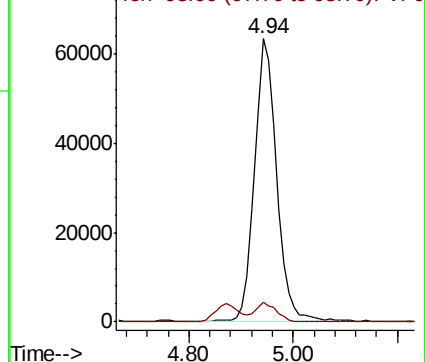


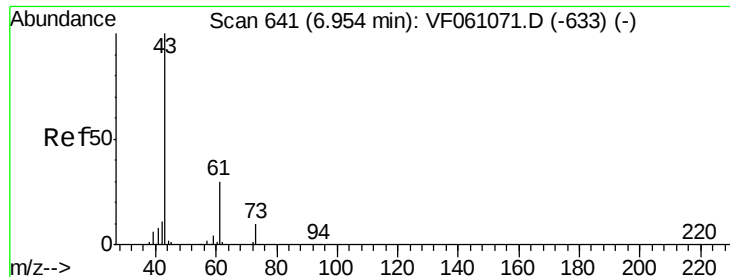
#42
1,2-Dichloroethane
Concen: 50.424 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion:	62	Resp:	183852
Ion	Ratio	Lower	Upper
62	100		
98	7.0	0.0	16.6



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



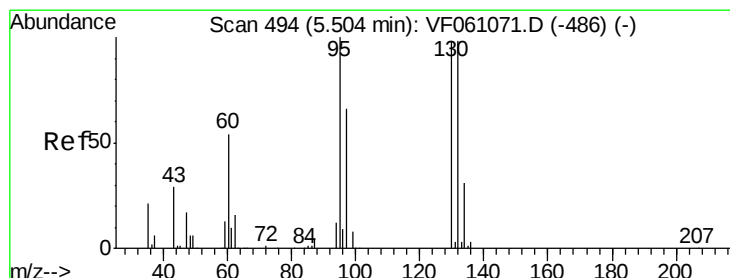
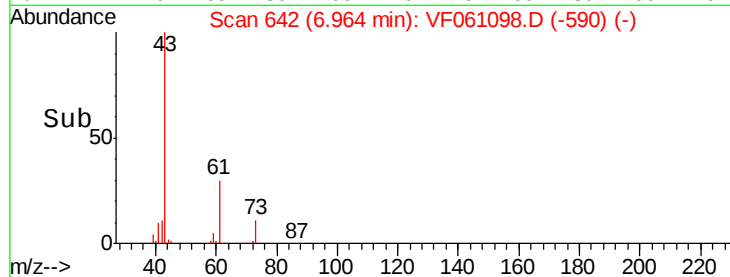
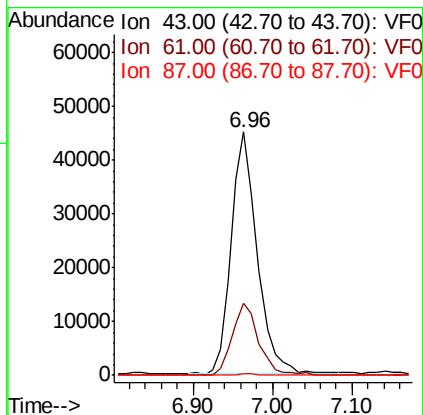
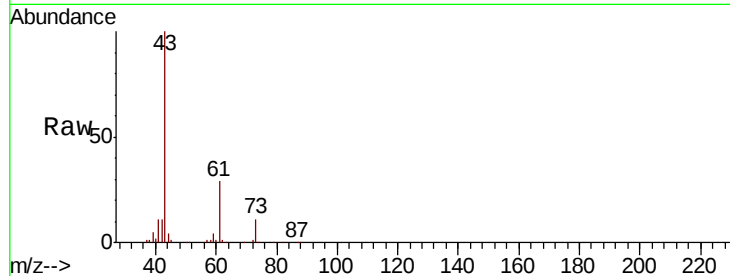


#43

Isopropyl Acetate
 Concen: 47.650 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. 0.01 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Instrument :
 MSVOA_F
 ClientSampleId :

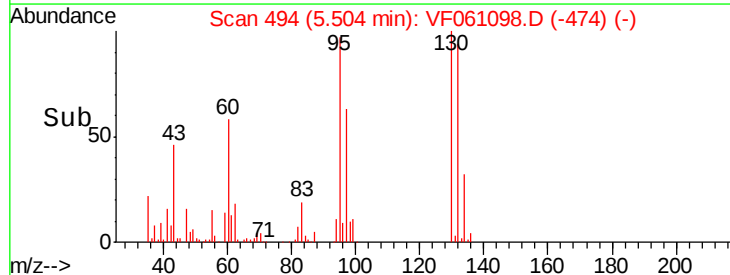
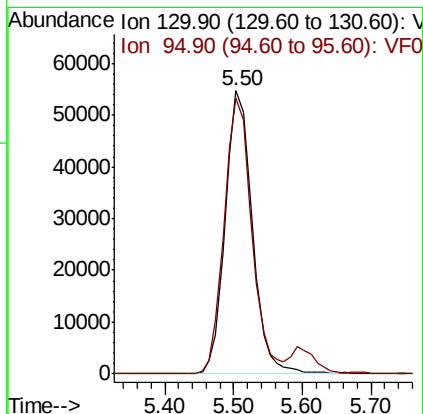
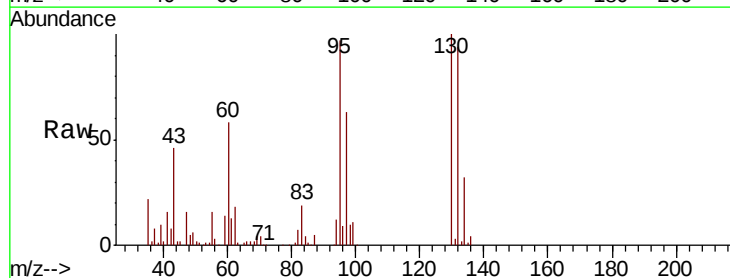
Tot Ion: 43 Resp: 102686
 Ion Ratio Lower Upper
 43 100
 61 29.4 23.8 35.8
 87 0.5 0.0 0.0#



#44

Trichloroethene
 Concen: 49.539 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.00 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Tgt Ion: 130 Resp: 149905
 Ion Ratio Lower Upper
 130 100
 95 97.4 0.0 205.2





#45

1,2-Dichloropropane

Concen: 47.033 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

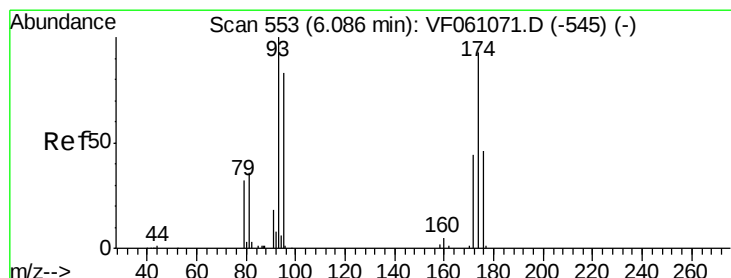
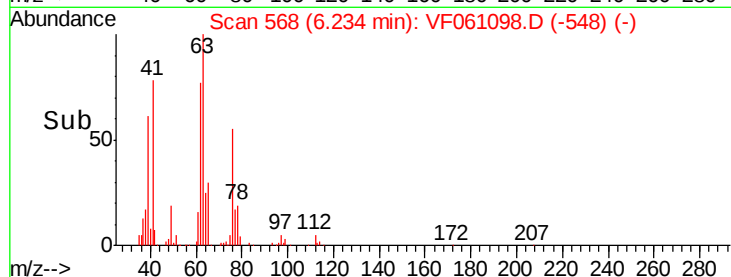
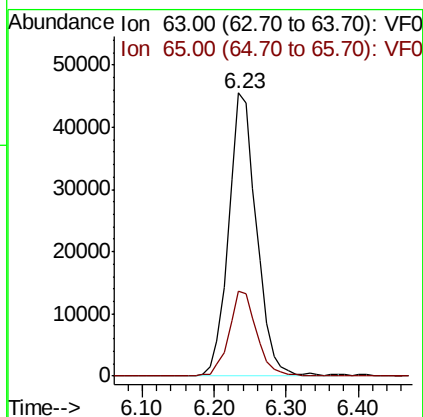
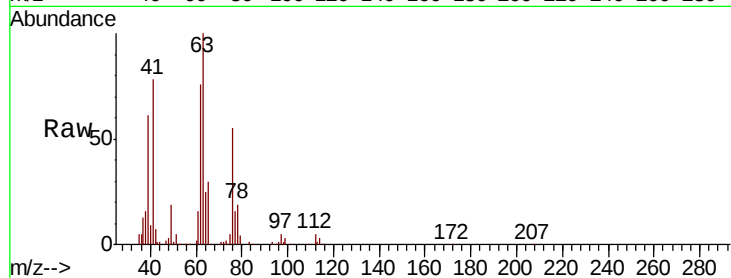
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 63 Resp: 122818

Ion Ratio Lower Upper

63 100

65 30.2 24.4 36.6



#46

Dibromomethane

Concen: 49.037 ug/l

RT: 6.09 min Scan# 553

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

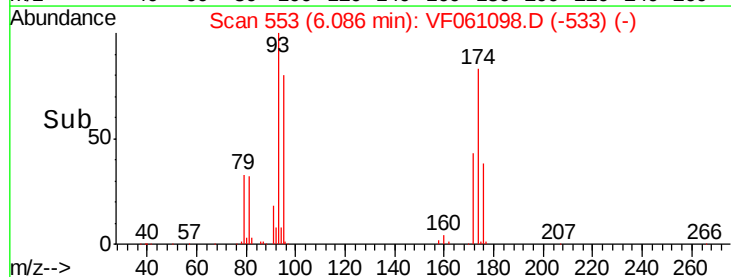
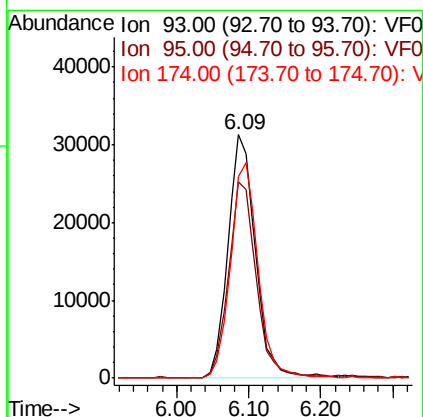
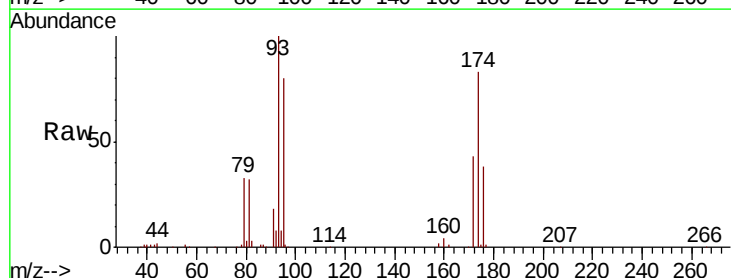
Tgt Ion: 93 Resp: 83052

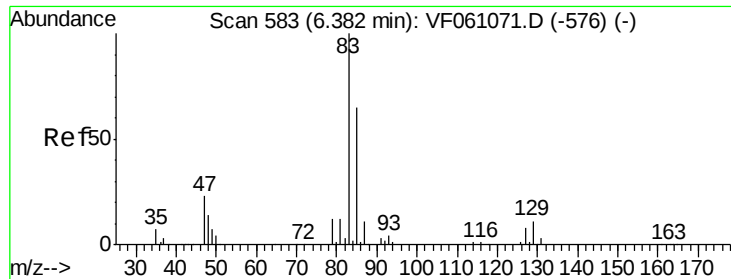
Ion Ratio Lower Upper

93 100

95 80.5 66.9 100.3

174 82.7 74.1 111.1





#47

Bromodichloromethane

Concen: 48.216 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampled :

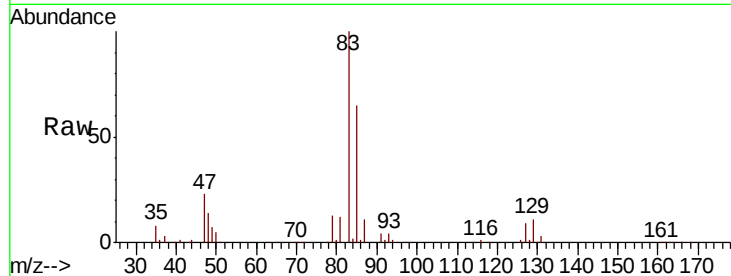
Tot Ion: 83 Resp: 212178

Ion Ratio Lower Upper

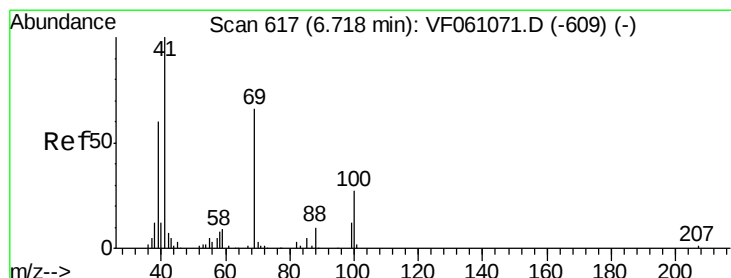
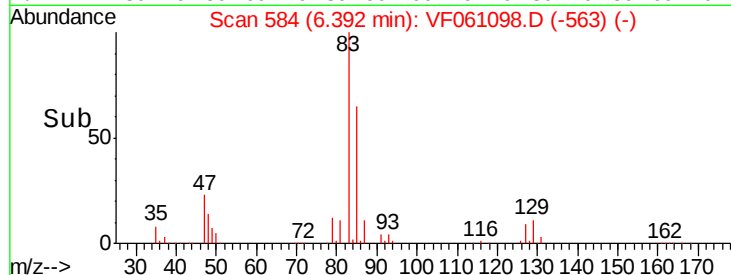
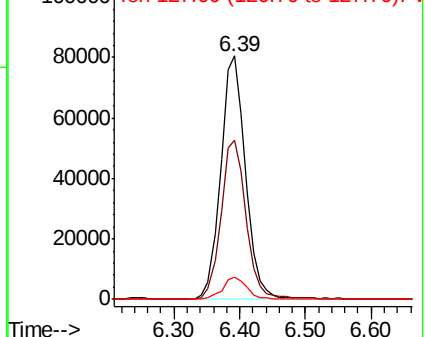
83 100

85 65.5 52.2 78.4

127 9.1 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 48.624 ug/l

RT: 6.73 min Scan# 618

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

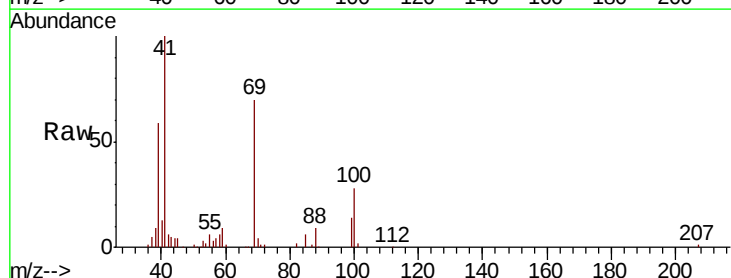
Tgt Ion: 41 Resp: 73152

Ion Ratio Lower Upper

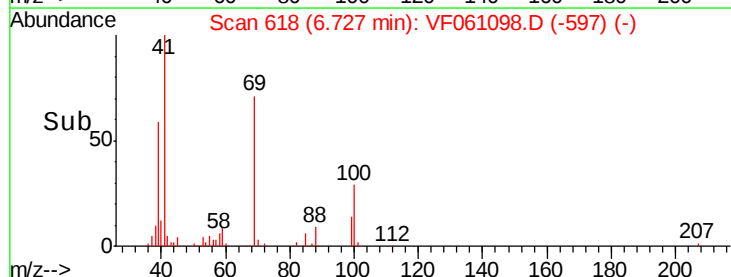
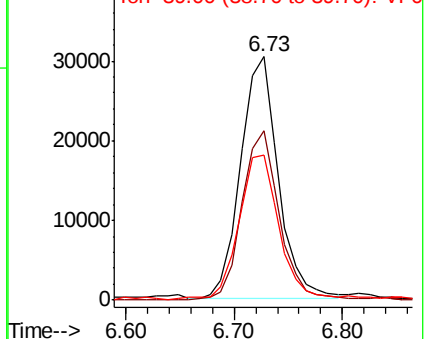
41 100

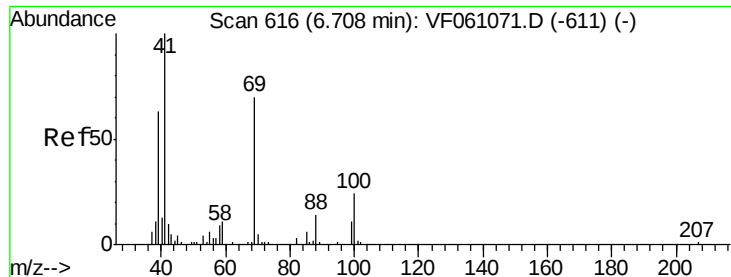
69 69.8 52.7 79.1

39 59.4 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





#49

1,4-Dioxane

Concen: 976.258 ug/l

RT: 6.72 min Scan# 617

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :

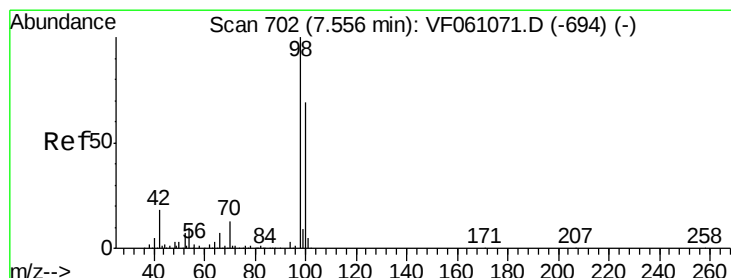
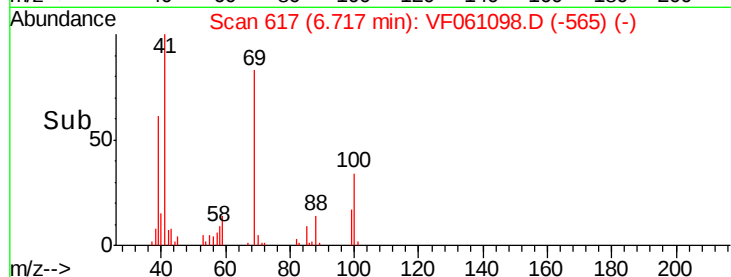
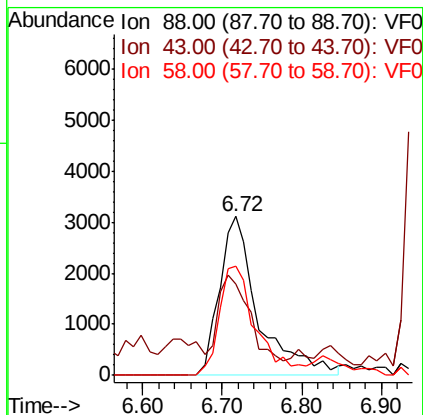
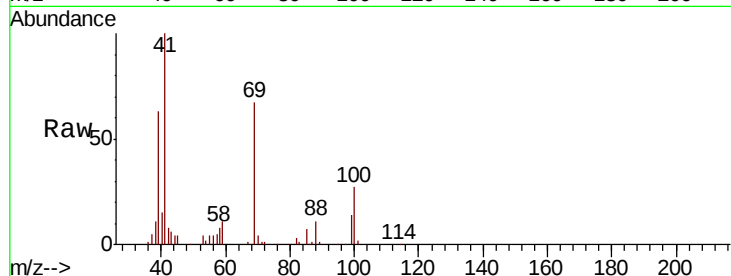
Tot Ion: 88 Resp: 10657

Ion Ratio Lower Upper

88 100

43 57.2 33.3 49.9#

58 68.6 53.2 79.8



#50

Toluene-d8

Concen: 50.930 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061098.D

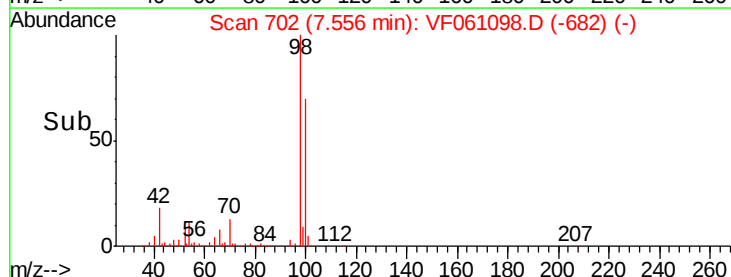
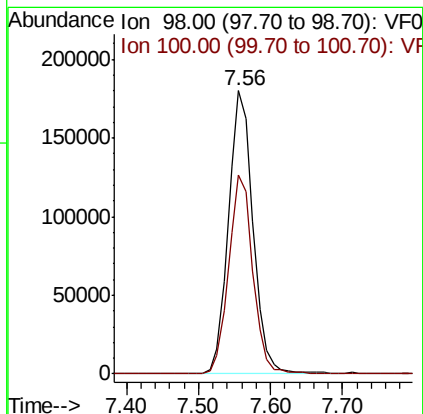
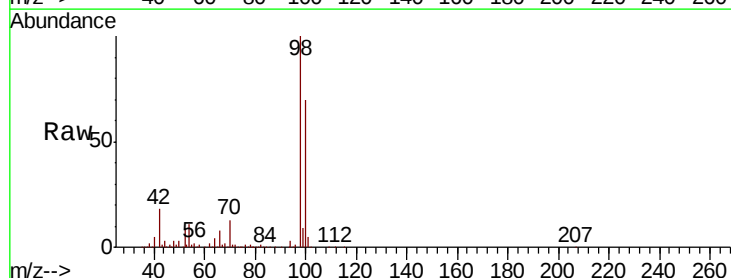
Acq: 19 Dec 2018 21:29

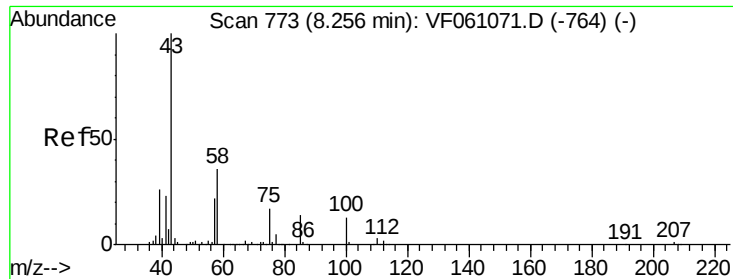
Tgt Ion: 98 Resp: 427487

Ion Ratio Lower Upper

98 100

100 70.4 55.3 82.9





#51

4-Methyl-2-Pentanone

Concen: 241.876 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

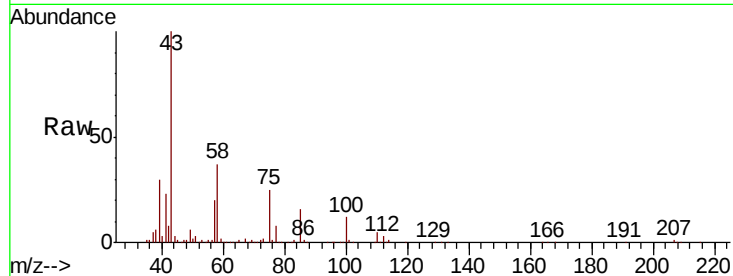
ClientSampleId :

Tot Ion: 43 Resp: 357484

Ion Ratio Lower Upper

43 100

58 37.0 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

150000

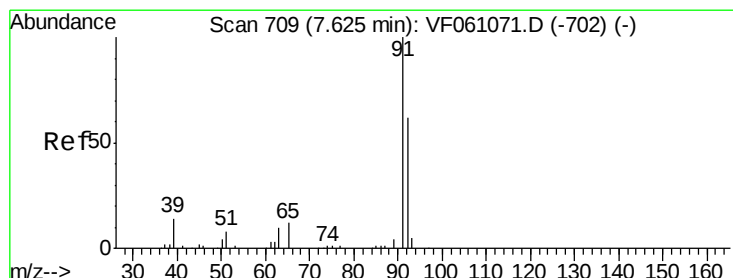
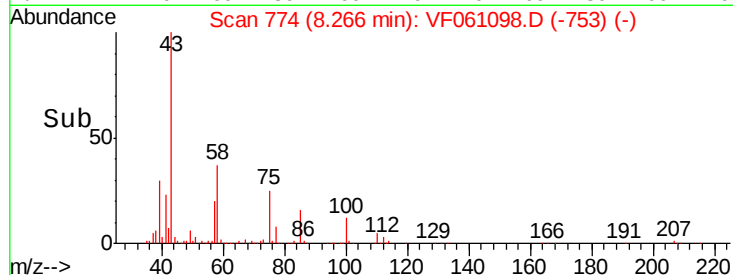
100000

50000

0

8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 49.623 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.00 min

Lab File: VF061098.D

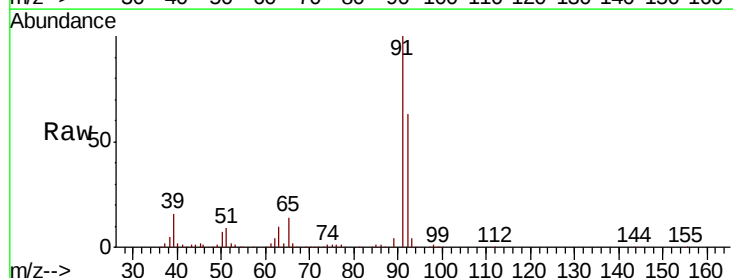
Acq: 19 Dec 2018 21:29

Tgt Ion: 92 Resp: 315271

Ion Ratio Lower Upper

92 100

91 158.2 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

200000

150000

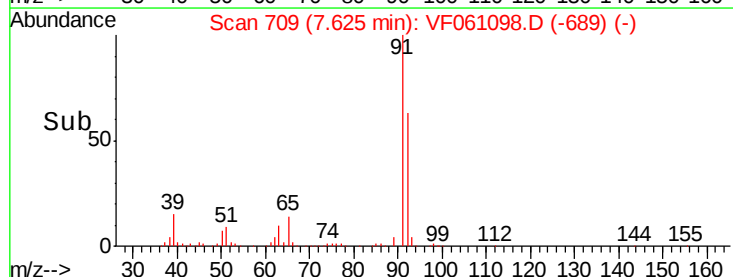
100000

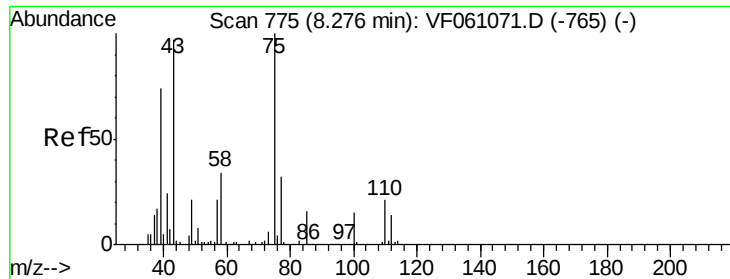
50000

0

7.50 7.60 7.70 7.80

Time-->





#53

t-1,3-Dichloropropene

Concen: 46.427 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

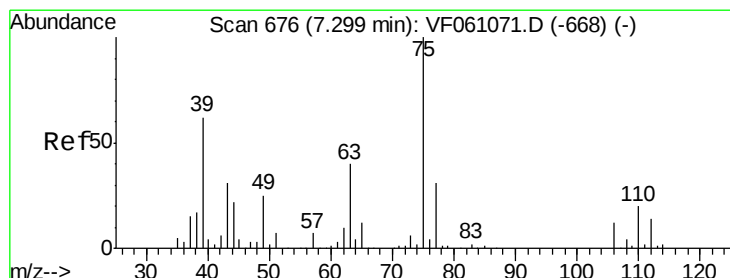
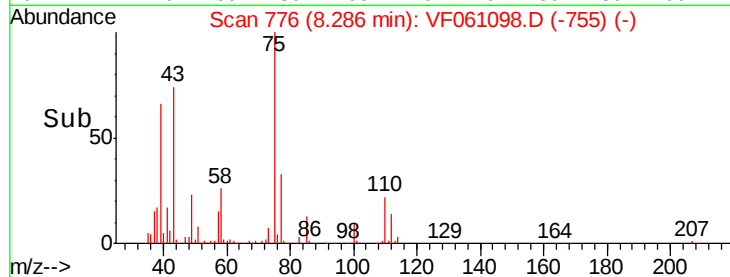
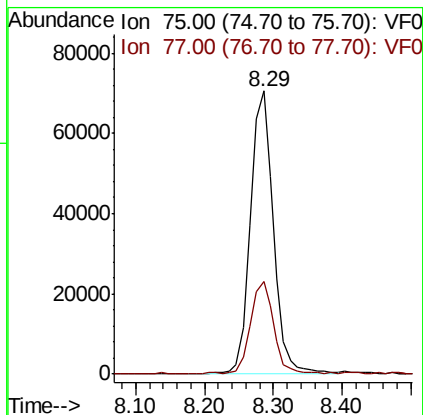
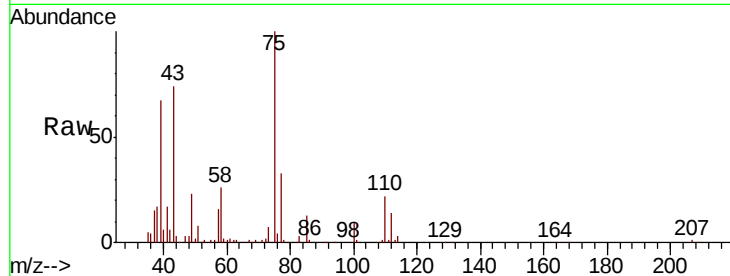
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 164814

Ion Ratio Lower Upper

75 100

77 33.0 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 47.784 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

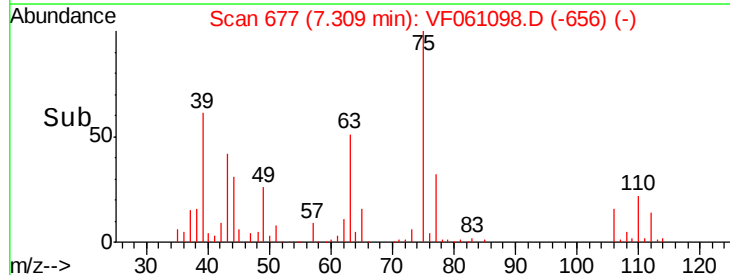
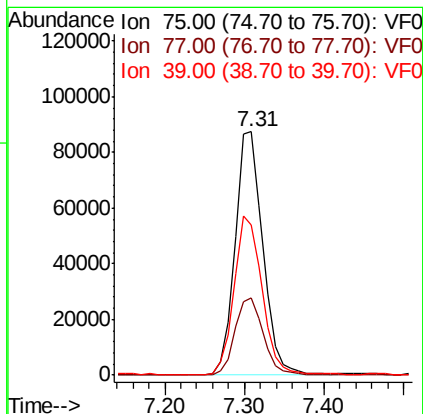
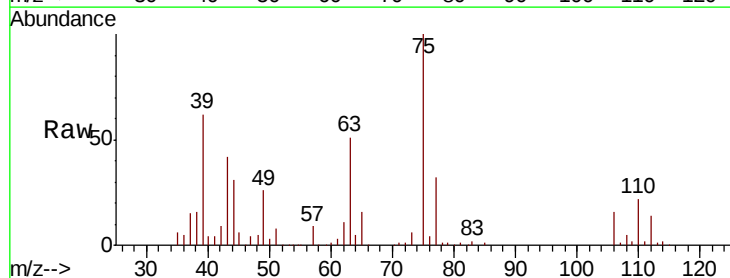
Tgt Ion: 75 Resp: 212900

Ion Ratio Lower Upper

75 100

77 31.8 25.0 37.4

39 61.6 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 48.467 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 92312

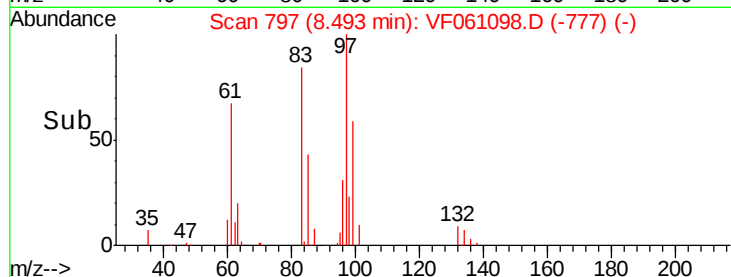
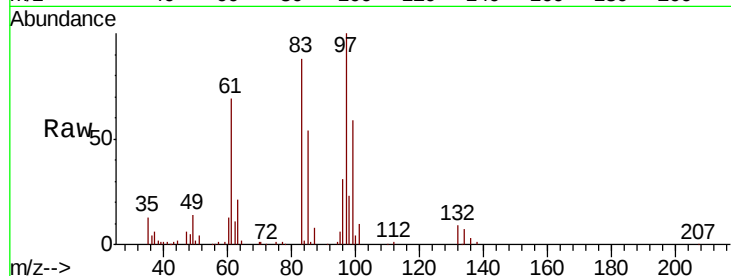
Ion	Ratio	Lower	Upper
97	100		
83	87.6	75.0	112.4
85	53.7	47.5	71.3
99	59.0	51.9	77.9

97 100

83 87.6 75.0 112.4

85 53.7 47.5 71.3

99 59.0 51.9 77.9

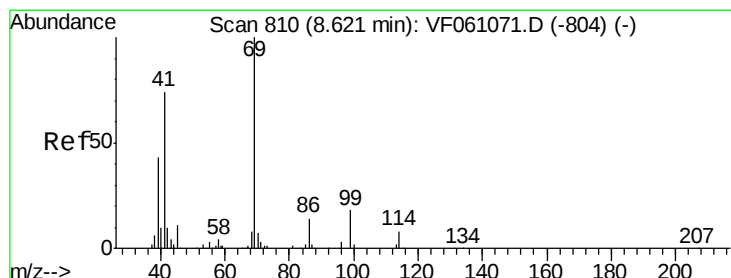
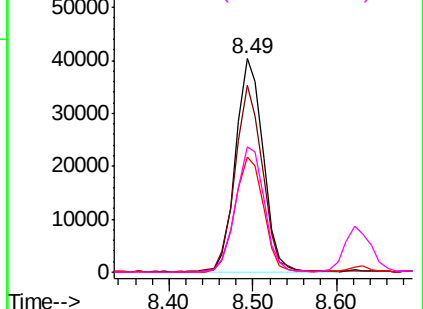


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 45.816 ug/l

RT: 8.62 min Scan# 810

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

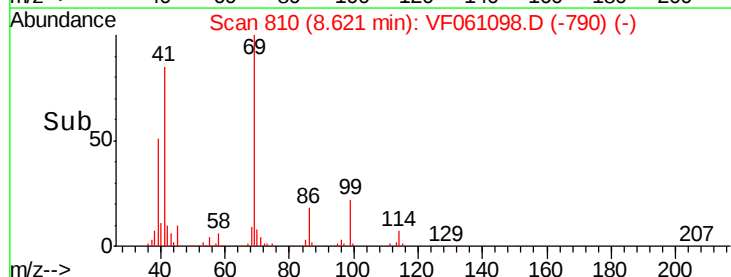
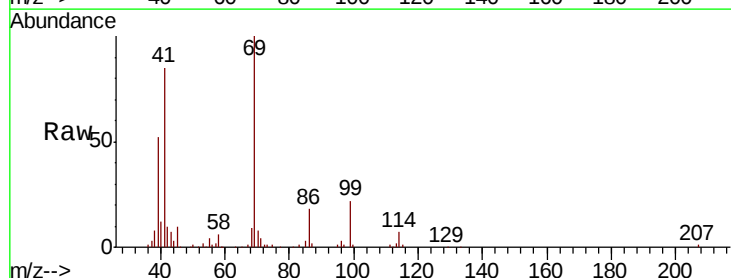
Tgt Ion: 69 Resp: 94425

Ion	Ratio	Lower	Upper
69	100		
41	85.4	59.7	89.5
39	52.5	35.0	52.6

69 100

41 85.4 59.7 89.5

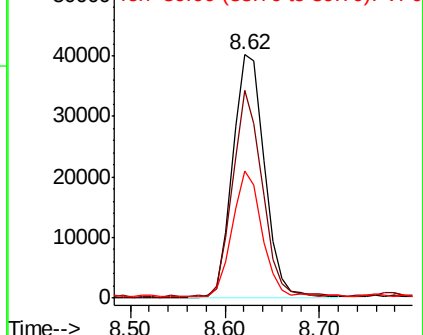
39 52.5 35.0 52.6

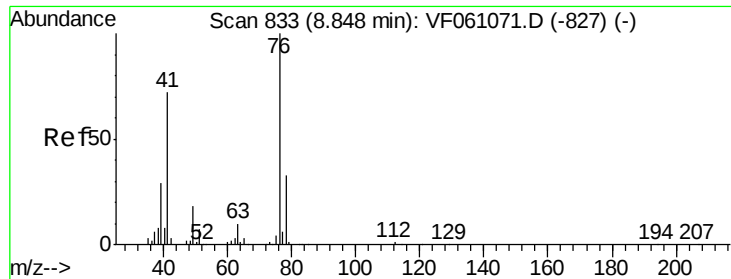


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 45.141 ug/l

RT: 8.86 min Scan# 834

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

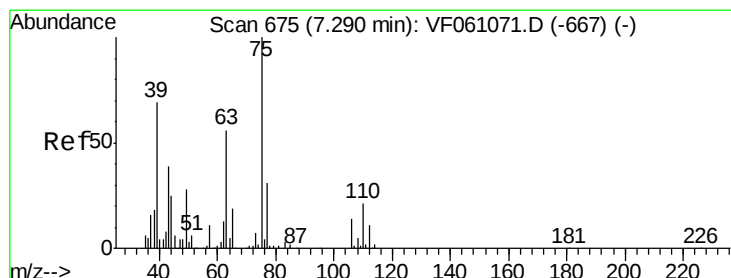
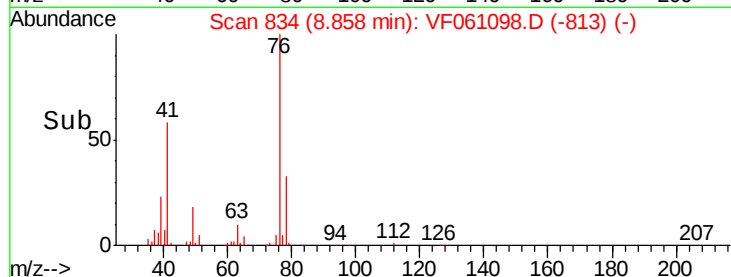
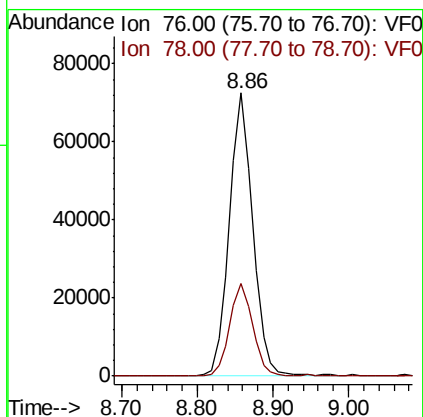
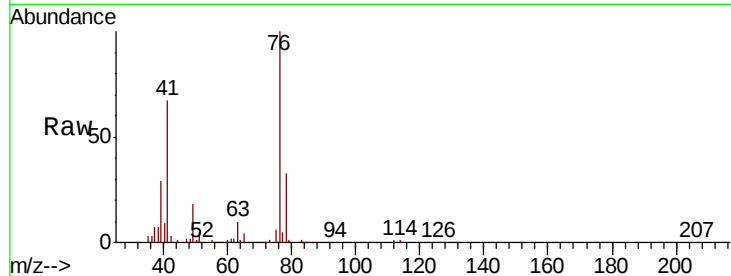
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 76 Resp: 155500

Ion Ratio Lower Upper

76 100

78 32.6 26.5 39.7



#58

2-Chloroethyl Vinyl ether

Concen: 319.368 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061098.D

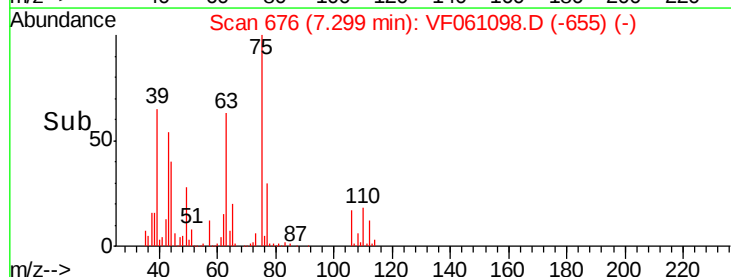
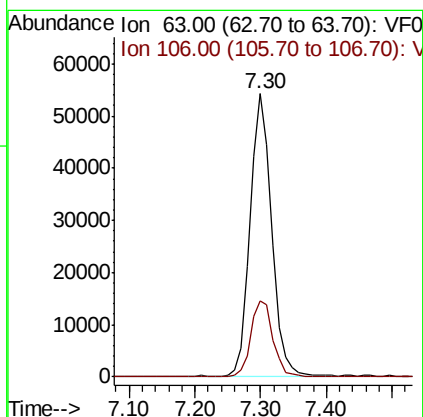
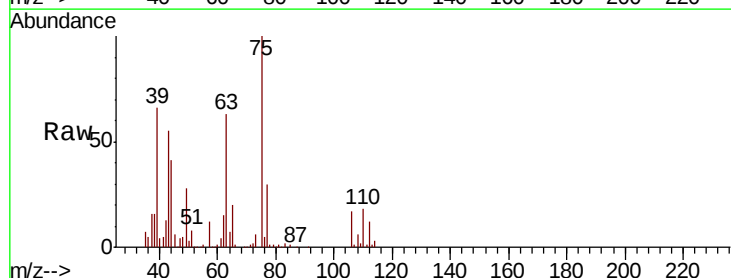
Acq: 19 Dec 2018 21:29

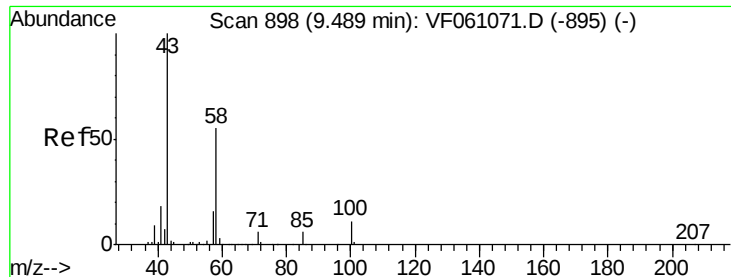
Tgt Ion: 63 Resp: 126414

Ion Ratio Lower Upper

63 100

106 26.8 19.8 29.8

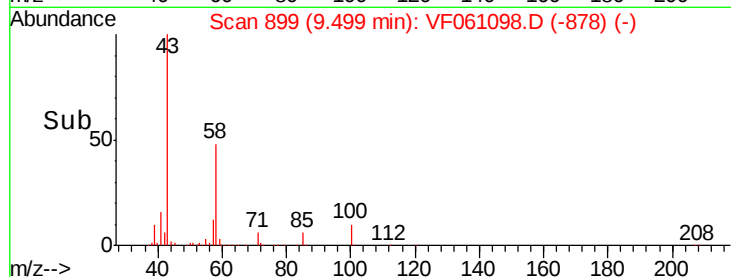
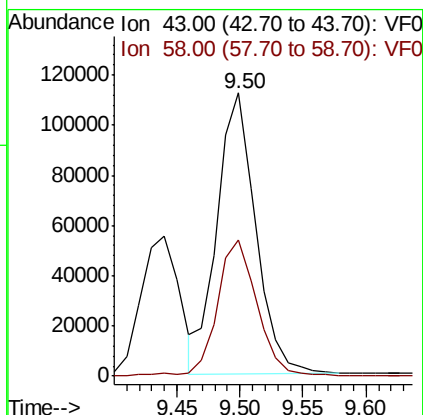
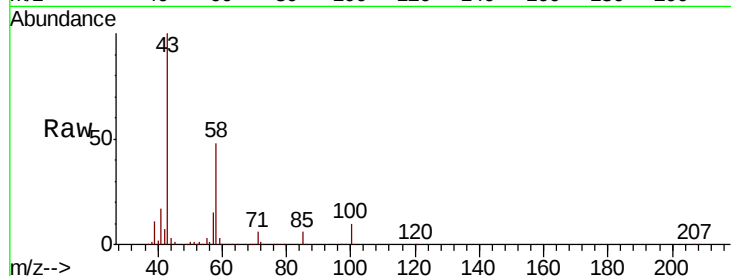




#59
2-Hexanone
Concen: 223.488 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

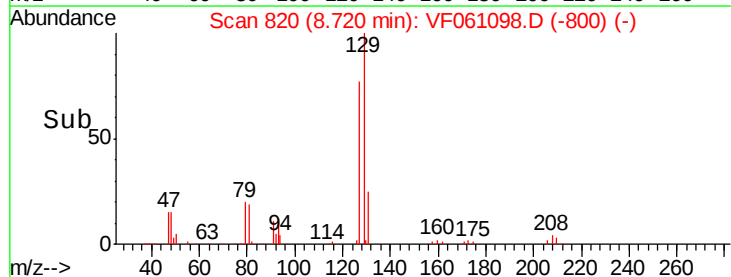
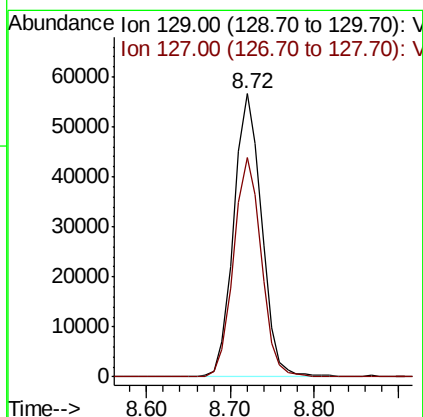
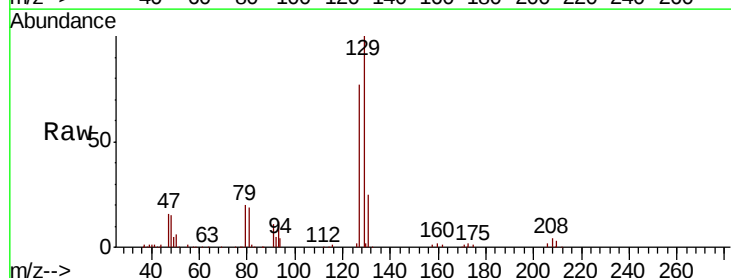
Instrument :
MSVOA_F
ClientSampleId :

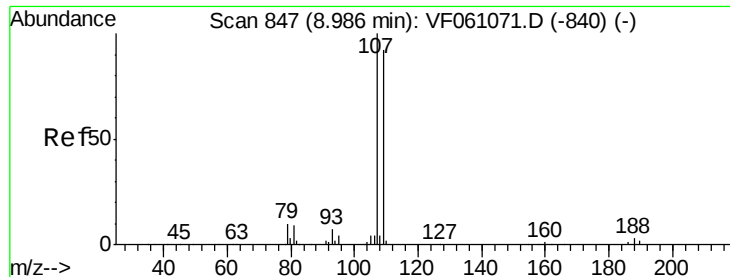
Tot Ion: 43 Resp: 238871
Ion Ratio Lower Upper
43 100
58 48.0 25.1 75.2



#60
Dibromochloromethane
Concen: 47.934 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion: 129 Resp: 130872
Ion Ratio Lower Upper
129 100
127 77.3 36.8 110.3





#61

1,2-Dibromoethane

Concen: 48.491 ug/l

RT: 8.99 min Scan# 847

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

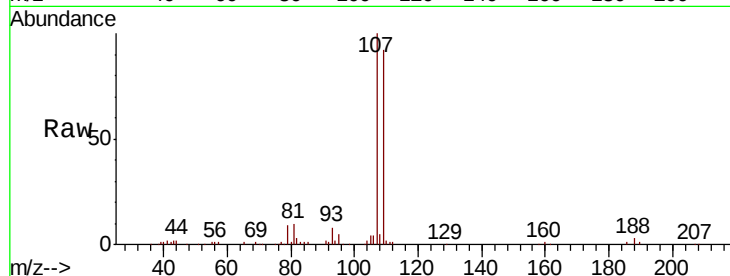
ClientSampleId :

Tot Ion:107 Resp: 98638

Ion Ratio Lower Upper

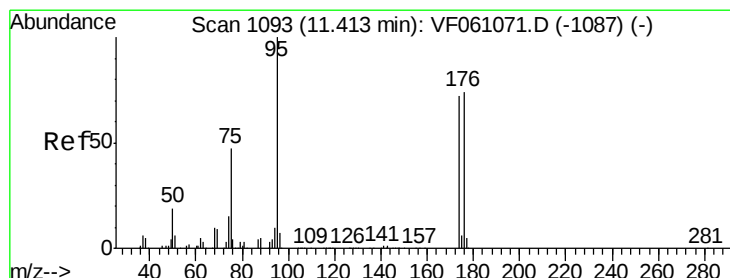
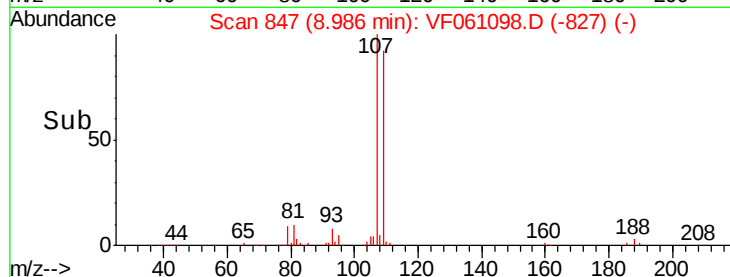
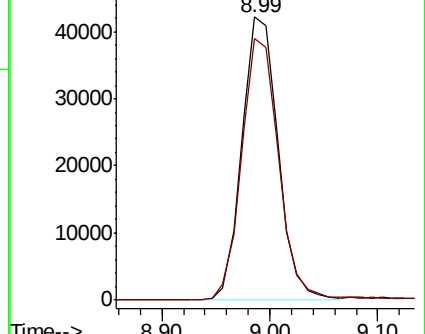
107 100

109 92.2 73.7 110.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 45.476 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

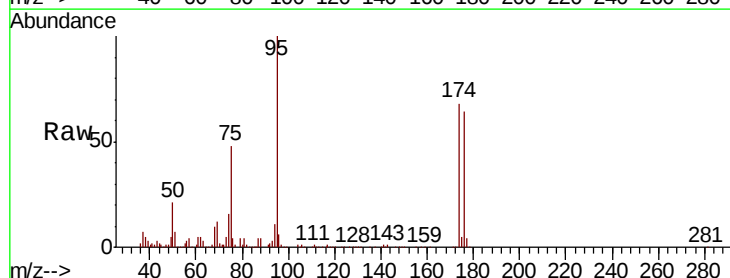
Tgt Ion: 95 Resp: 175976

Ion Ratio Lower Upper

95 100

174 67.6 0.0 143.8

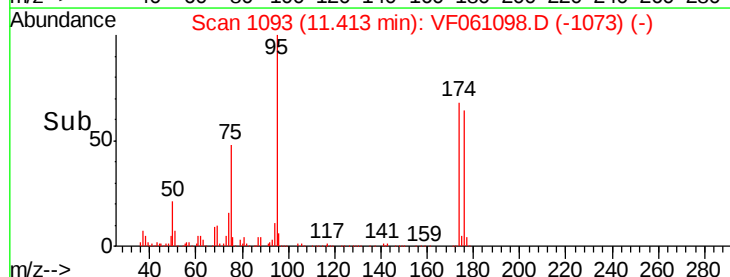
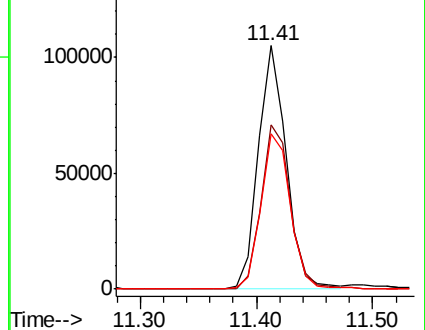
176 63.9 0.0 147.6



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

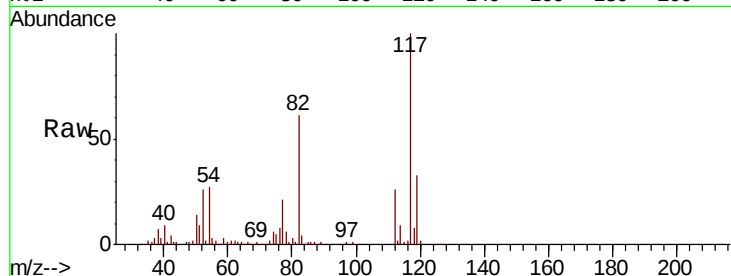




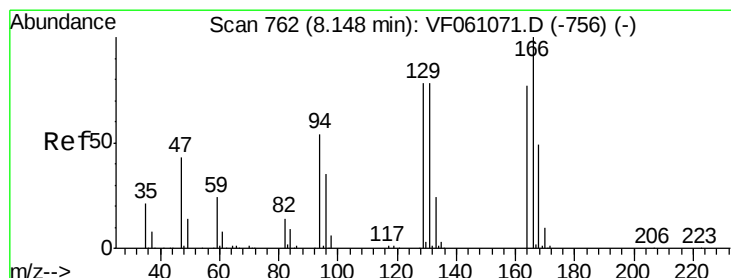
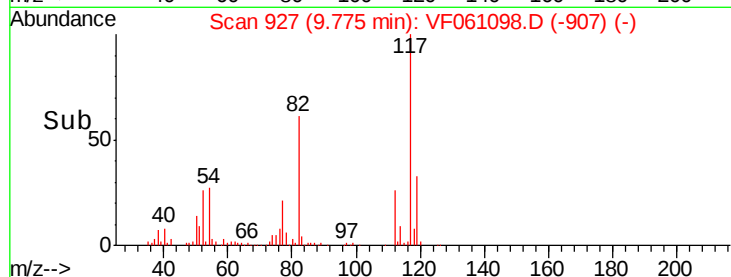
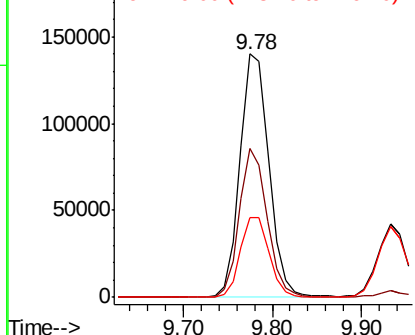
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 317334
Ion Ratio Lower Upper
117 100
82 61.4 45.0 67.4
119 32.7 24.8 37.2

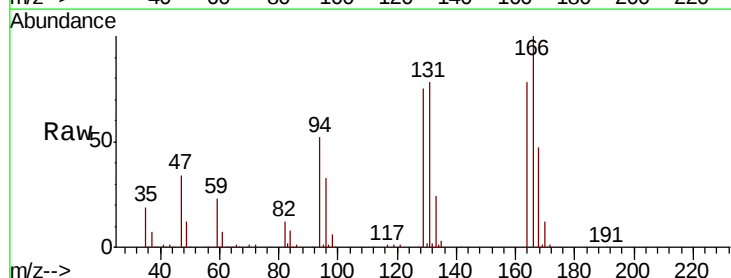


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

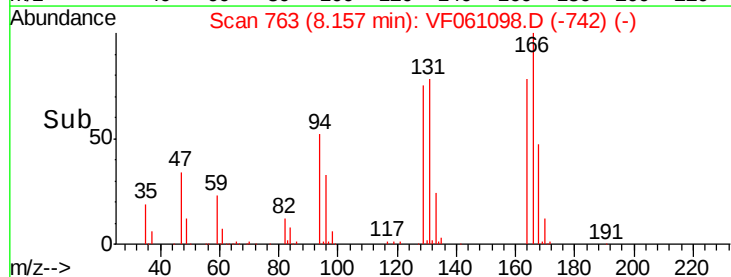
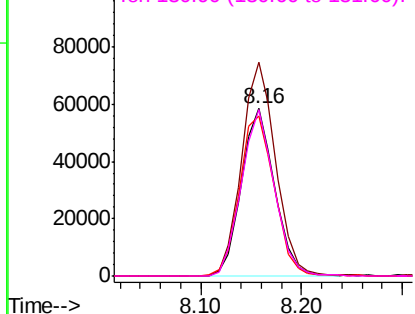


#64
Tetrachloroethene
Concen: 54.908 ug/l
RT: 8.16 min Scan# 763
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion:164 Resp: 134036
Ion Ratio Lower Upper
164 100
166 127.8 104.0 156.0
129 96.0 81.1 121.7
131 99.6 81.2 121.8



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

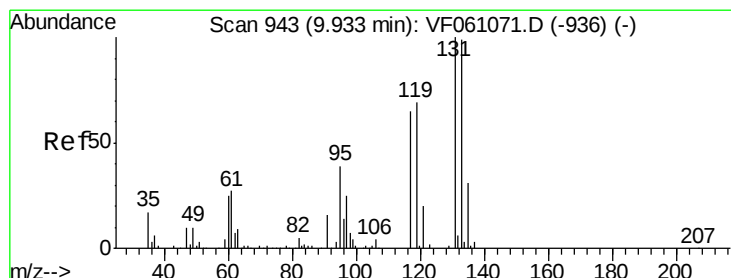
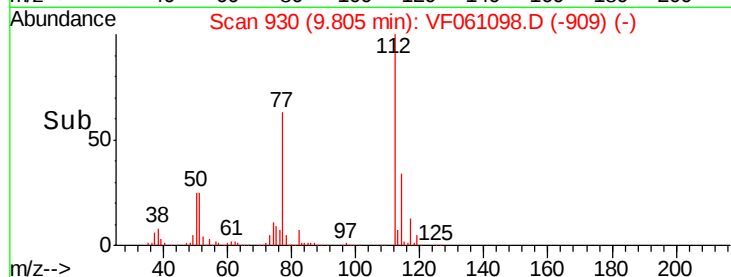
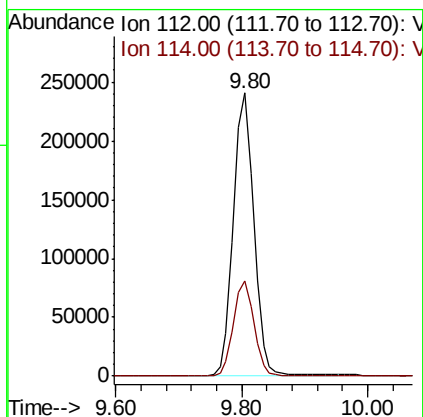
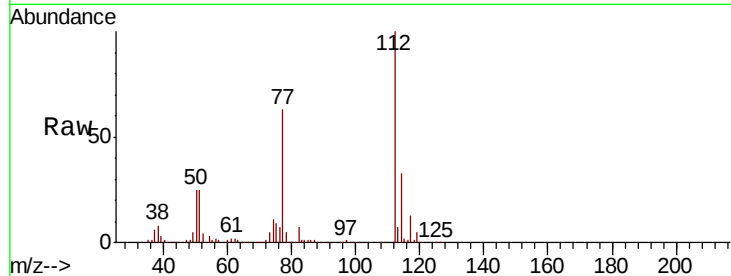




#65
Chlorobenzene
Concen: 82.860 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

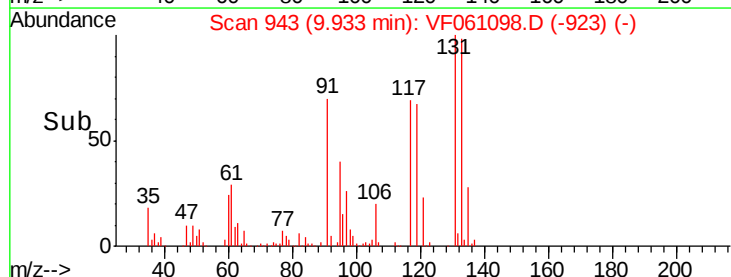
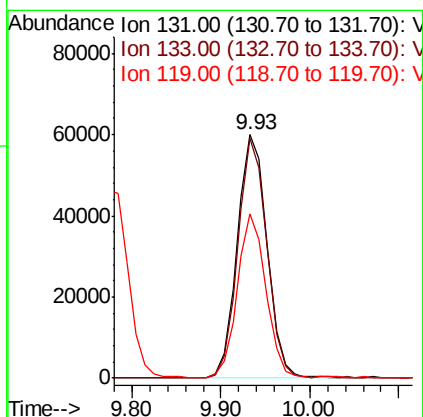
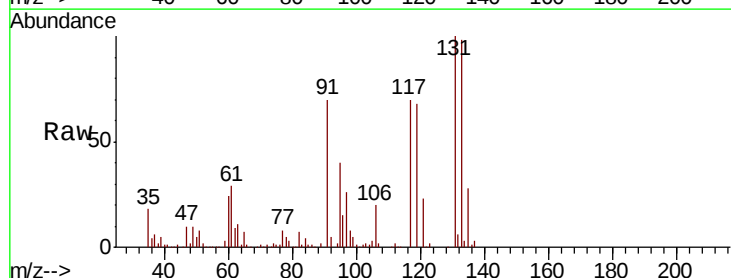
Instrument :
MSVOA_F
ClientSampled :

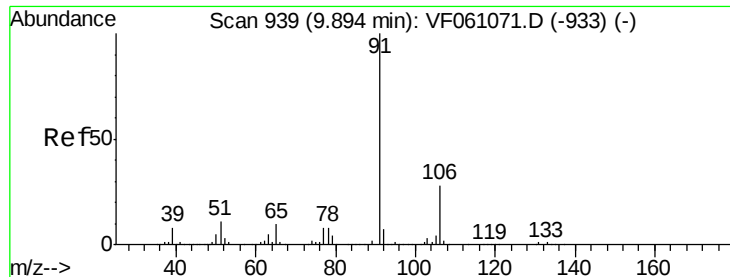
Tot Ion:112 Resp: 543206
Ion Ratio Lower Upper
112 100
114 33.5 27.8 41.6



#66
1,1,1,2-Tetrachloroethane
Concen: 52.120 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion:131 Resp: 139632
Ion Ratio Lower Upper
131 100
133 98.3 49.5 148.7
119 67.5 34.5 103.5

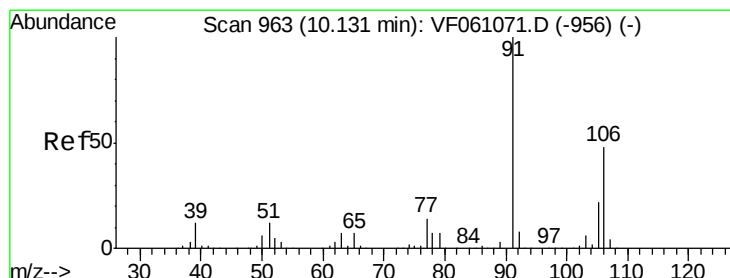
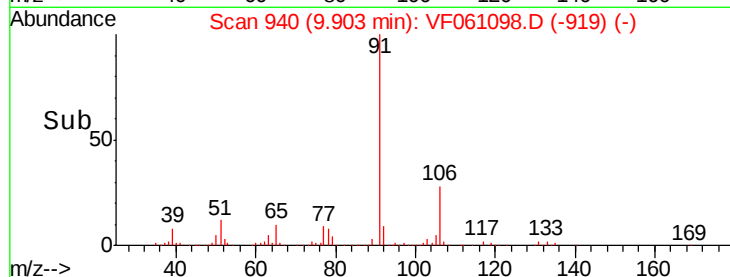
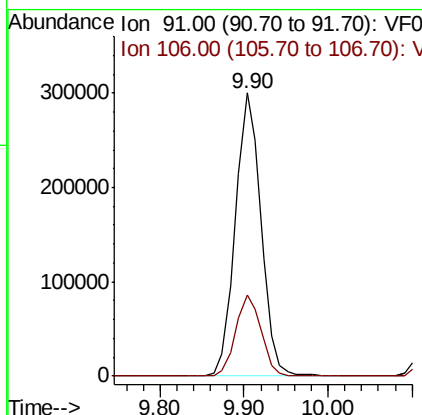
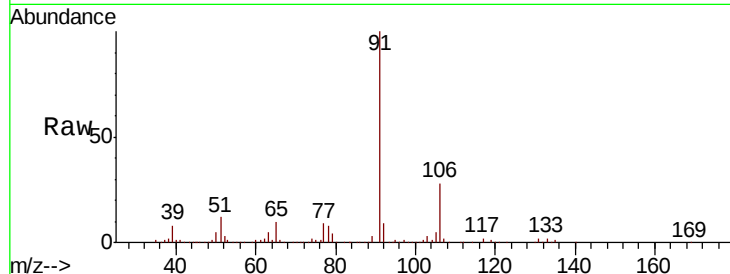




#67
Ethyl Benzene
Concen: 53.358 ug/l
RT: 9.90 min Scan# 940
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

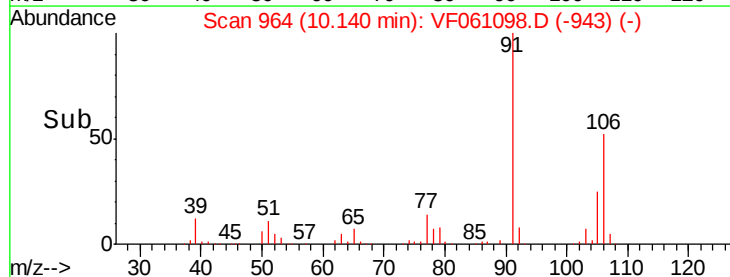
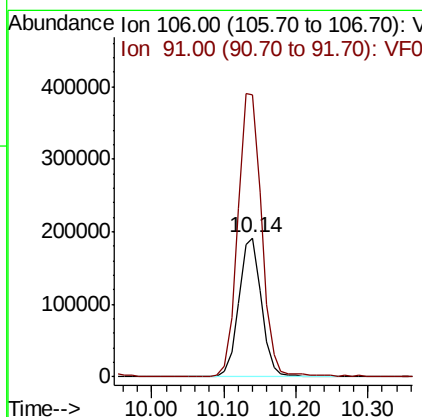
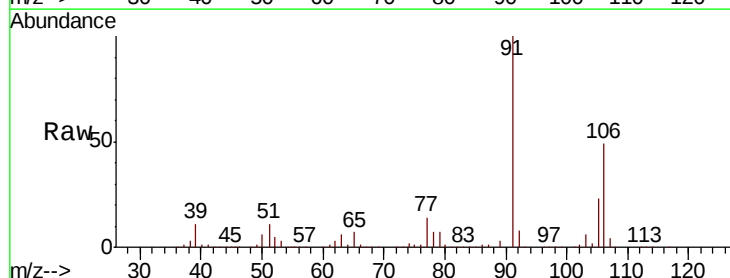
Instrument :
MSVOA_F
ClientSampleId :

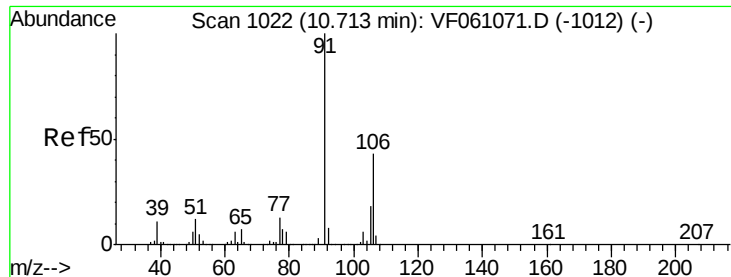
Tot Ion: 91 Resp: 637267
Ion Ratio Lower Upper
91 100
106 28.5 22.5 33.7



#68
m/p-Xylenes
Concen: 99.931 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion: 106 Resp: 420021
Ion Ratio Lower Upper
106 100
91 203.0 168.2 252.2

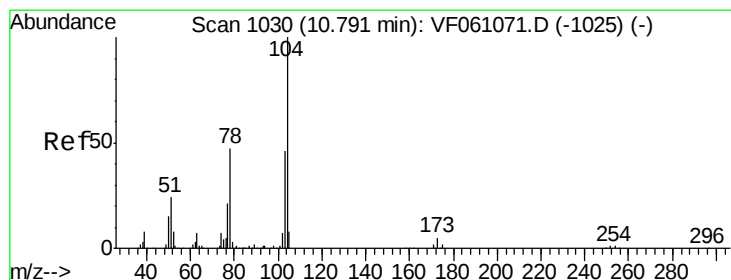
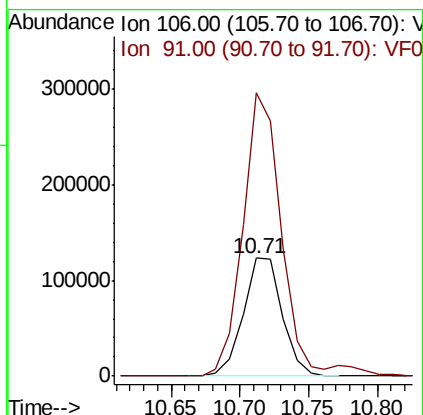
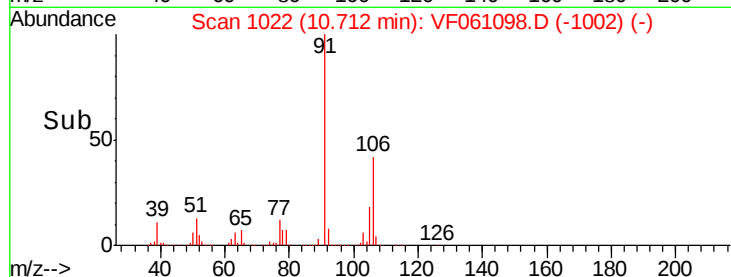
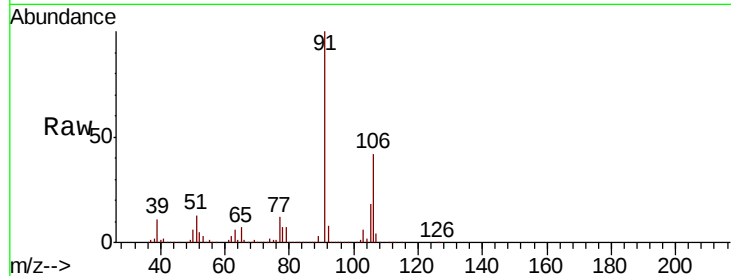




#69
o-Xylene
Concen: 52.376 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

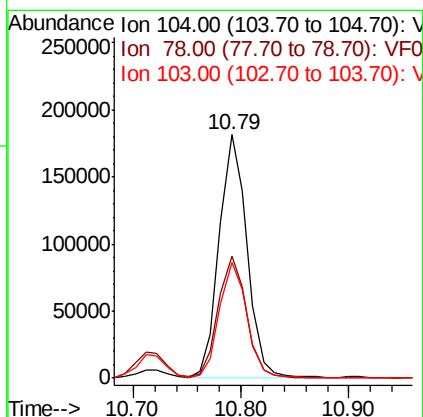
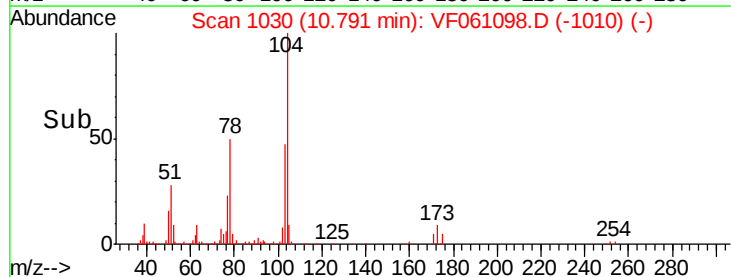
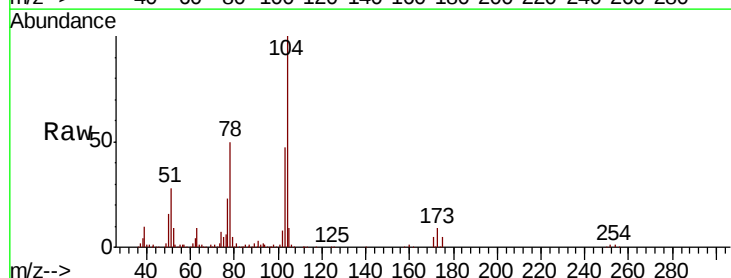
Instrument :
MSVOA_F
ClientSampleId :

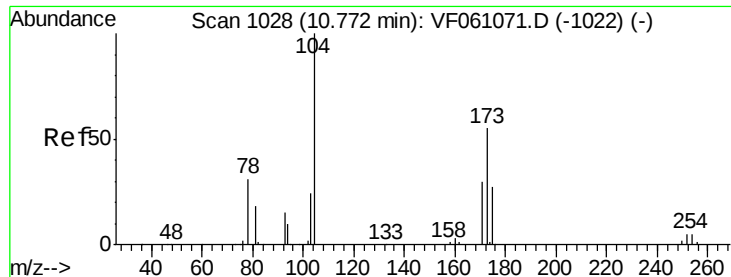
Tot Ion:106 Resp: 244153
Ion Ratio Lower Upper
106 100
91 239.5 115.9 347.7



#70
Styrene
Concen: 58.007 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion:104 Resp: 325053
Ion Ratio Lower Upper
104 100
78 50.0 38.4 57.6
103 47.2 37.0 55.6





#71

Bromoform

Concen: 51.755 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

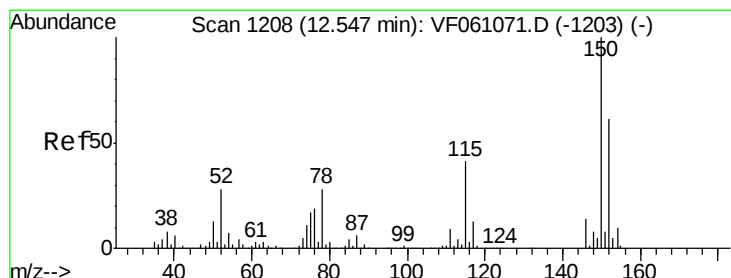
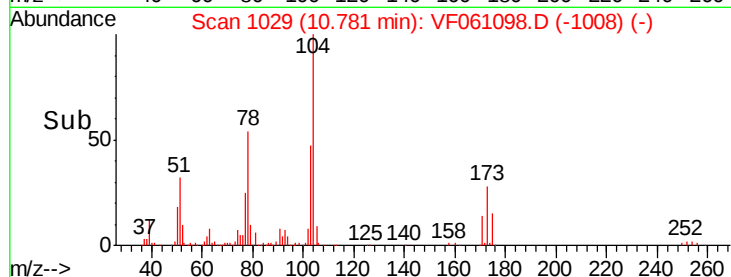
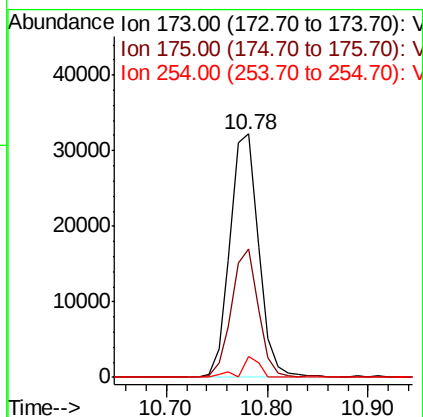
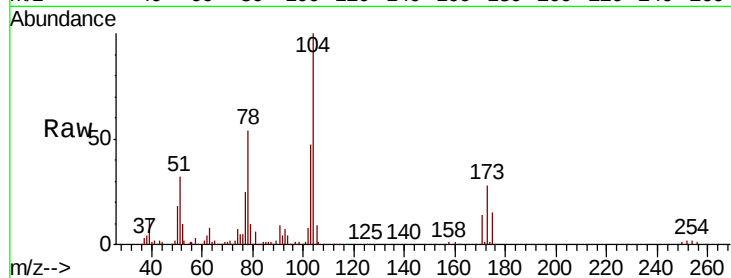
Tot Ion:173 Resp: 64148

Ion Ratio Lower Upper

173 100

175 53.5 24.8 74.4

254 8.7 0.0 0.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

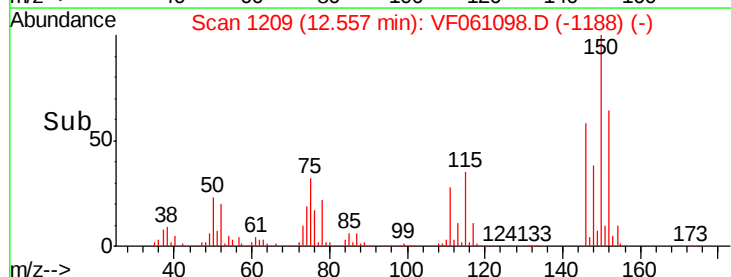
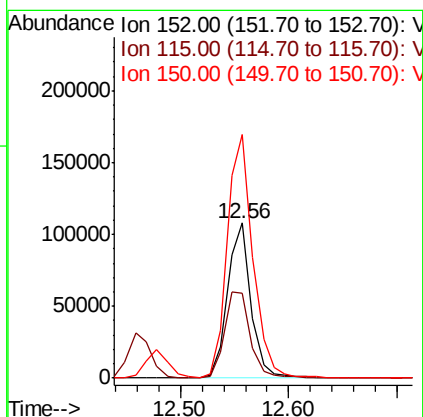
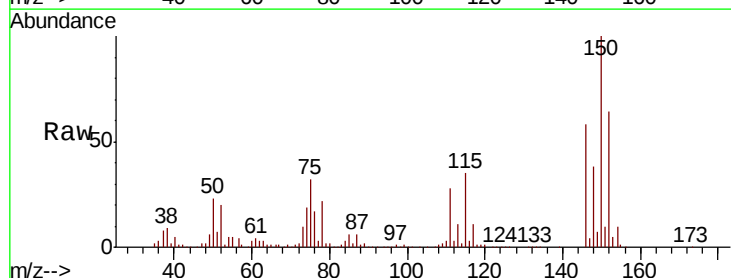
Tgt Ion:152 Resp: 163867

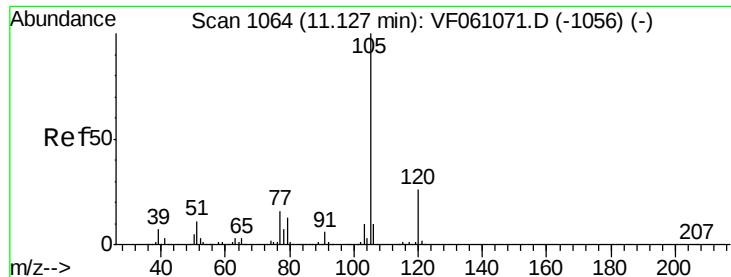
Ion Ratio Lower Upper

152 100

115 54.8 33.3 99.9

150 157.0 0.0 328.2





#73

Isopropylbenzene

Concen: 49.690 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

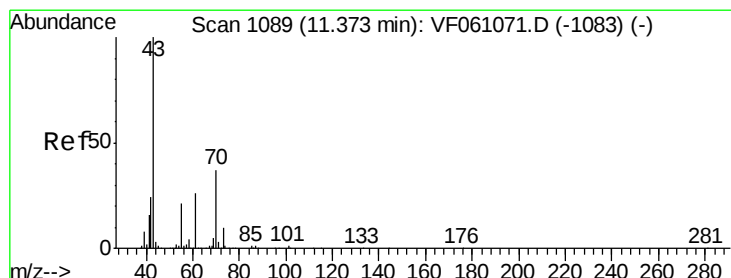
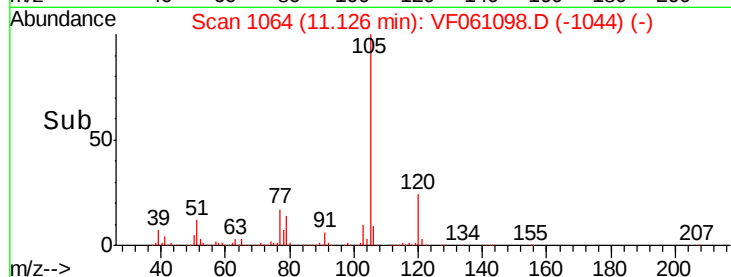
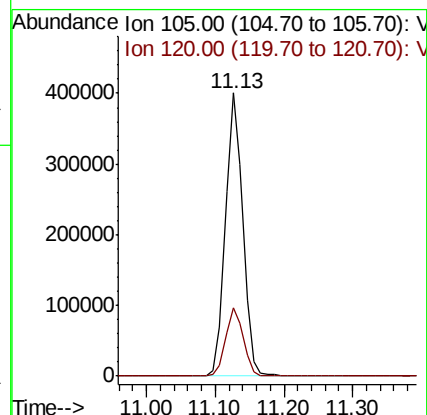
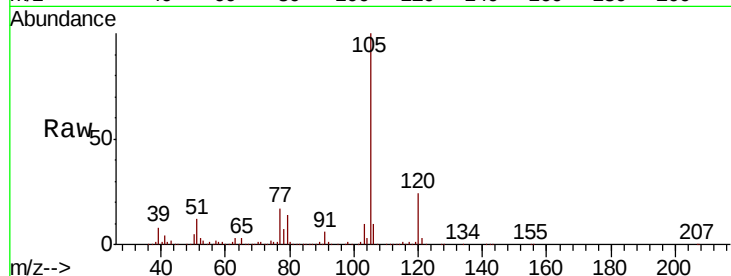
ClientSampleId :

Tot Ion:105 Resp: 701688

Ion Ratio Lower Upper

105 100

120 24.1 13.0 39.0



#74

N-ethyl acetate

Concen: 49.871 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Tgt Ion: 43 Resp: 156353

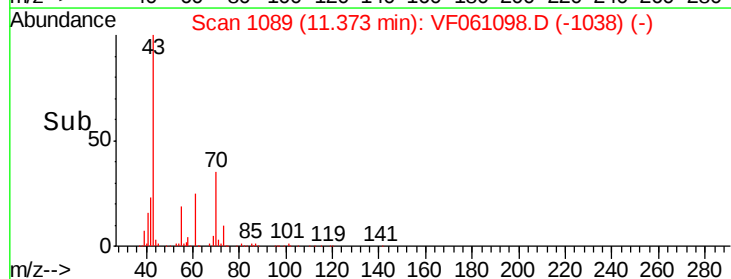
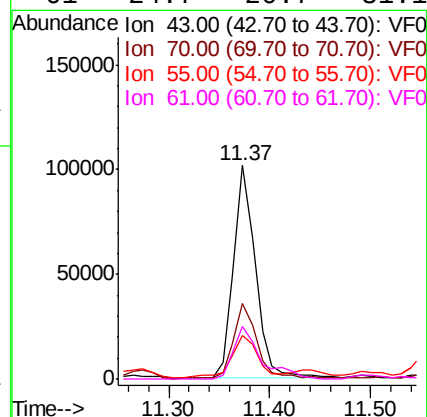
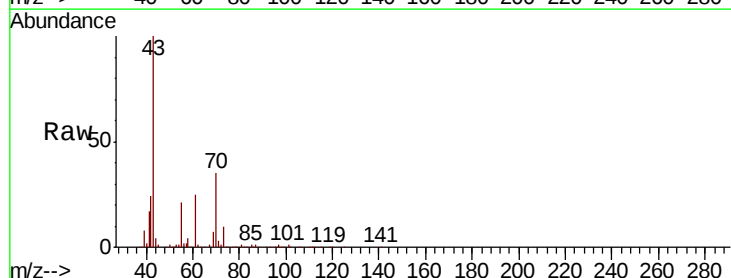
Ion Ratio Lower Upper

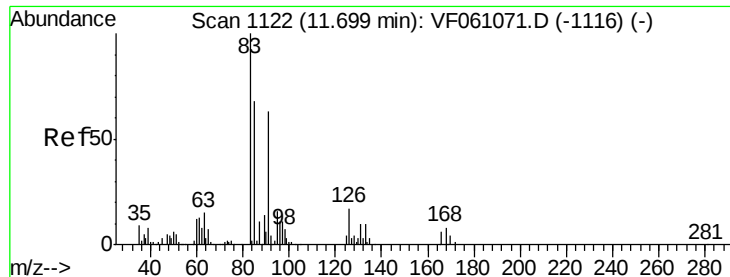
43 100

70 35.1 29.2 43.8

55 20.6 16.5 24.7

61 24.7 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 49.843 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

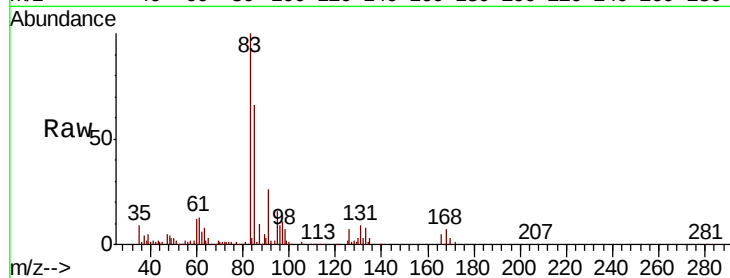
Tot Ion: 83 Resp: 116816

Ion Ratio Lower Upper

83 100

131 8.8 4.8 14.3

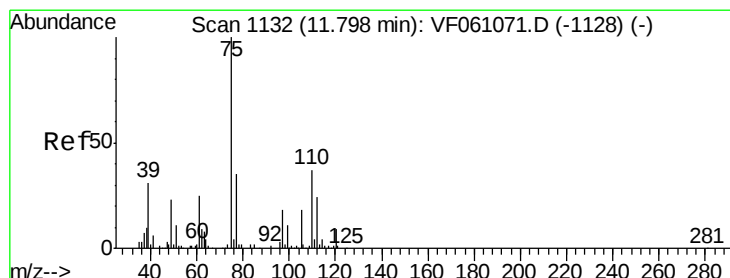
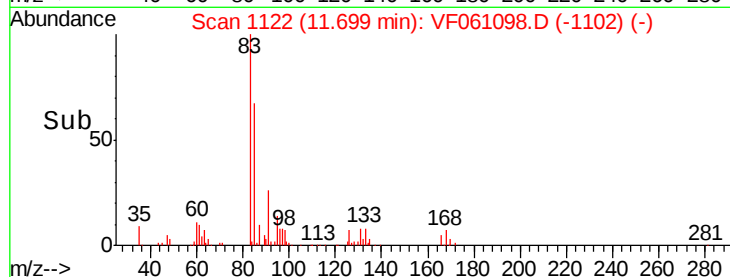
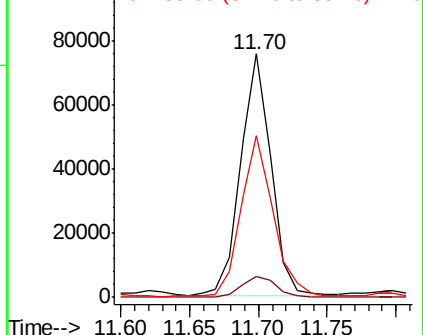
85 66.5 33.9 101.6



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



#76

1,2,3-Trichloropropane

Concen: 49.545 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF061098.D

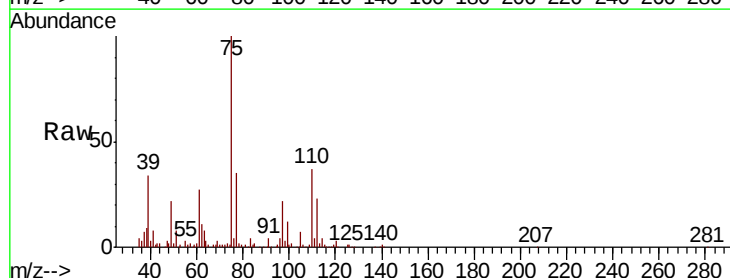
Acq: 19 Dec 2018 21:29

Tgt Ion: 75 Resp: 86413

Ion Ratio Lower Upper

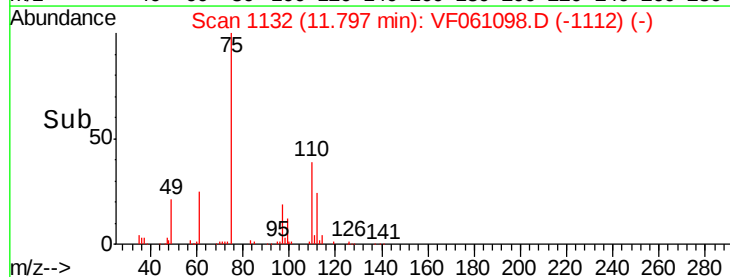
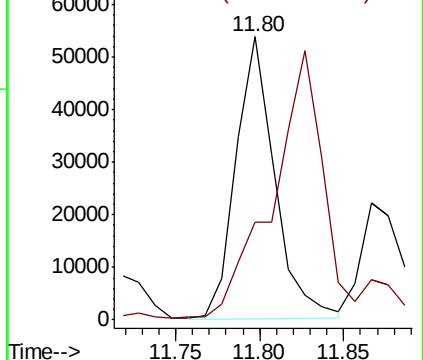
75 100

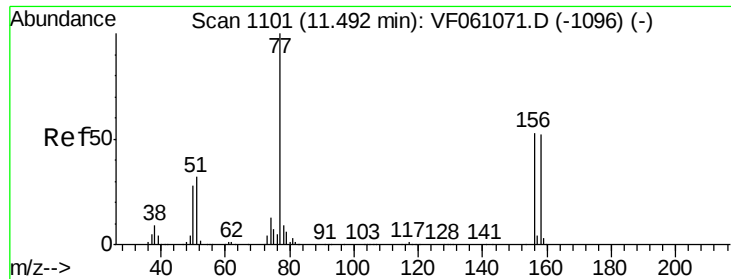
77 34.6 17.6 52.9



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 49.937 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

ClientSampleId :

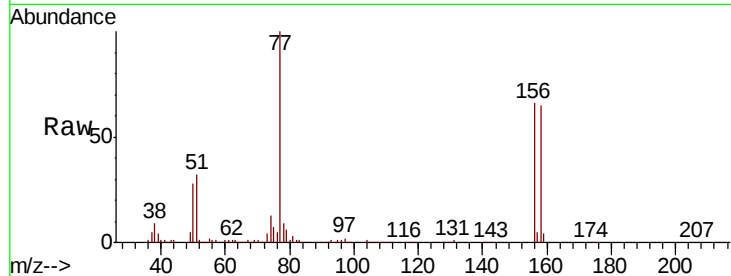
Tot Ion:156 Resp: 151799

Ion Ratio Lower Upper

156 100

77 150.8 93.8 281.4

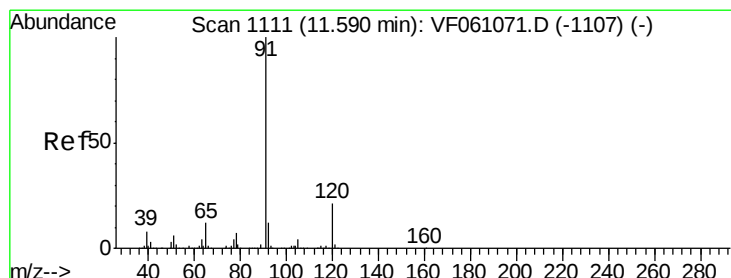
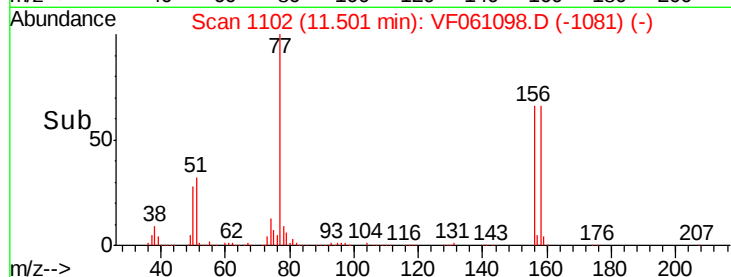
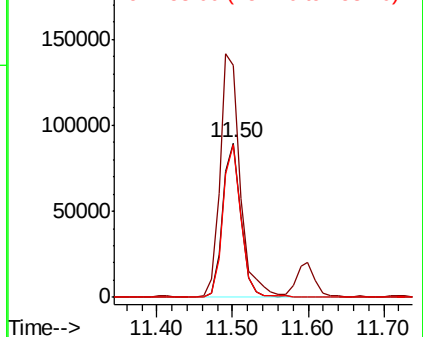
158 98.7 48.9 146.8



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: 47.749 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061098.D

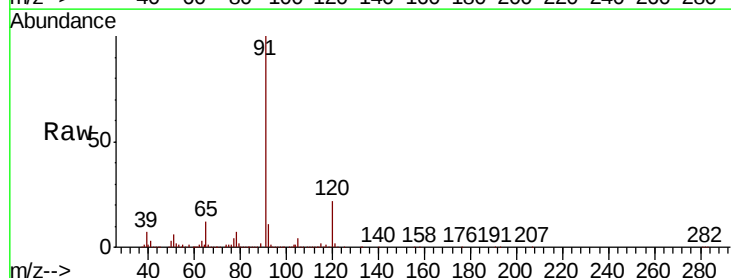
Acq: 19 Dec 2018 21:29

Tgt Ion: 91 Resp: 783592

Ion Ratio Lower Upper

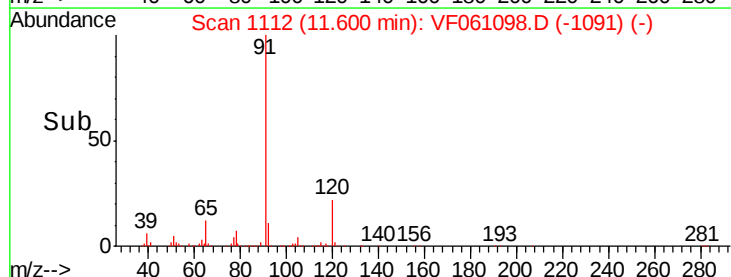
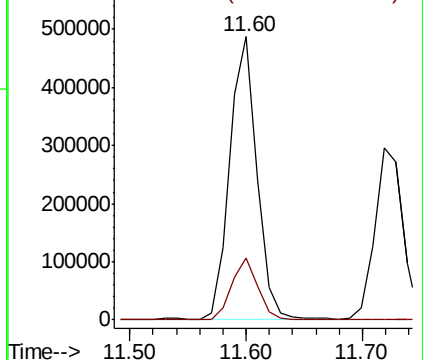
91 100

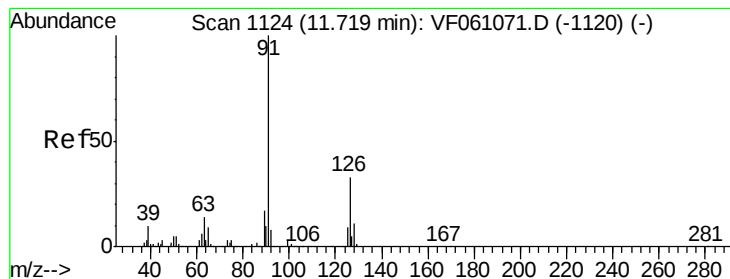
120 21.9 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 50.519 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

Instrument :

MSVOA_F

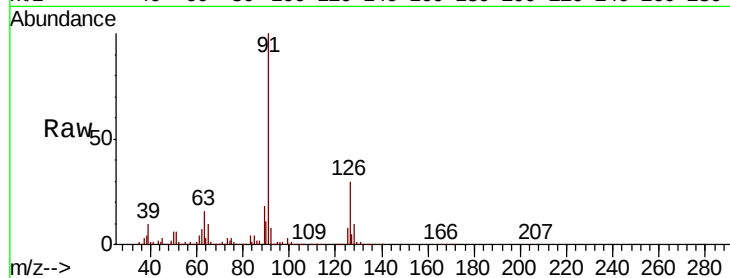
ClientSampleId :

Tot Ion: 91 Resp: 489385

Ion Ratio Lower Upper

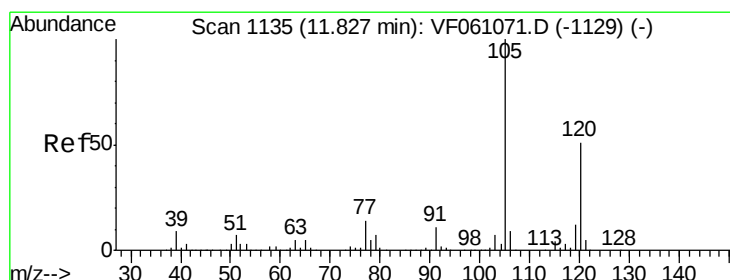
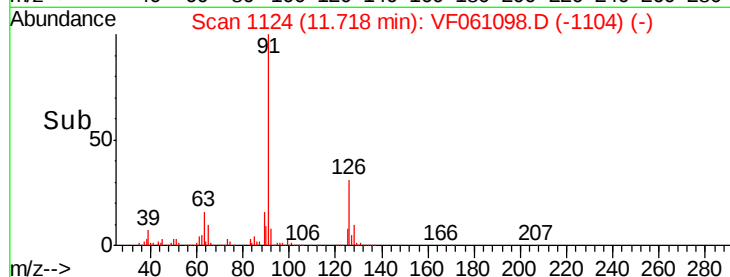
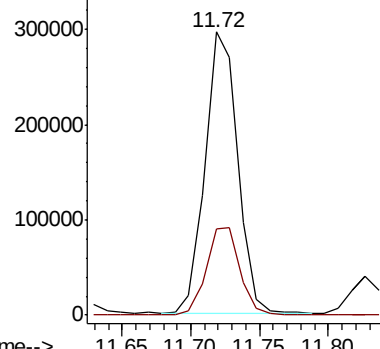
91 100

126 30.5 16.4 49.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 48.274 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061098.D

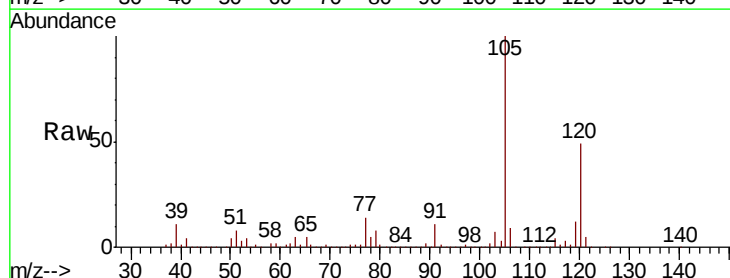
Acq: 19 Dec 2018 21:29

Tgt Ion:105 Resp: 561323

Ion Ratio Lower Upper

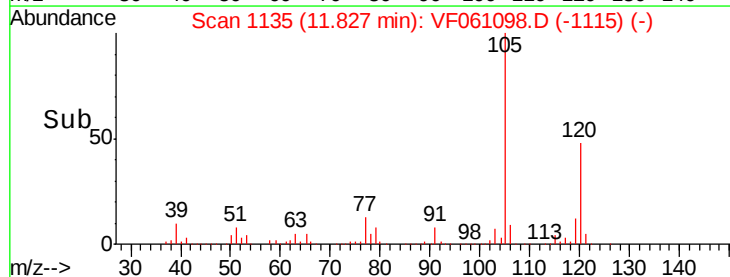
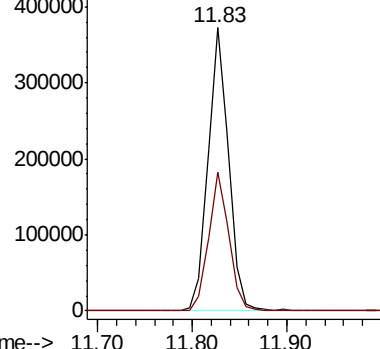
105 100

120 48.9 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 66.737 ug/l

RT: 11.87 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

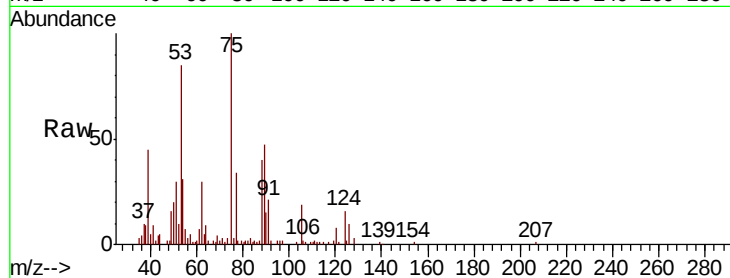
Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 75 Resp: 50018

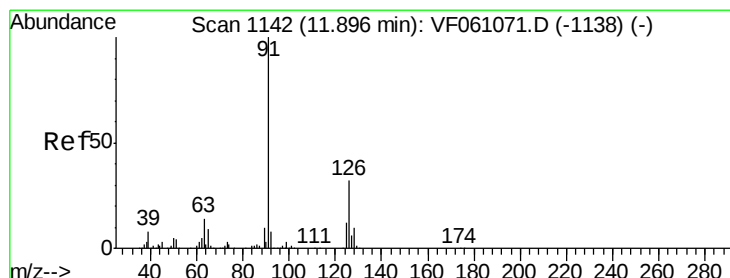
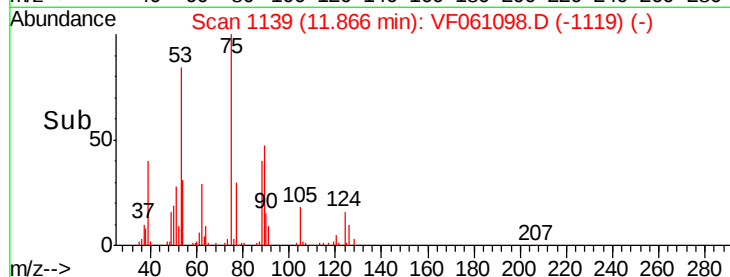
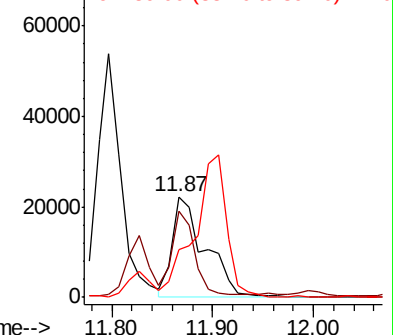
Ion	Ratio	Lower	Upper
75	100		
53	85.3	74.1	111.1
89	47.2	42.6	64.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 47.436 ug/l

RT: 11.91 min Scan# 1143

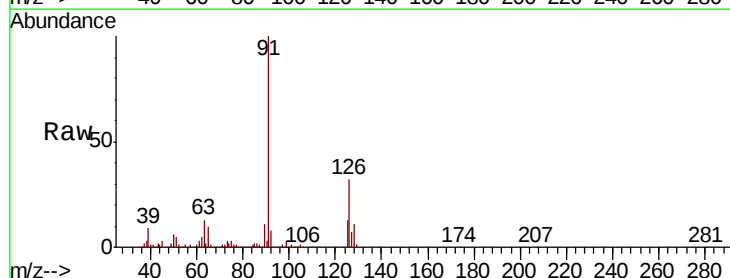
Delta R.T. 0.01 min

Lab File: VF061098.D

Acq: 19 Dec 2018 21:29

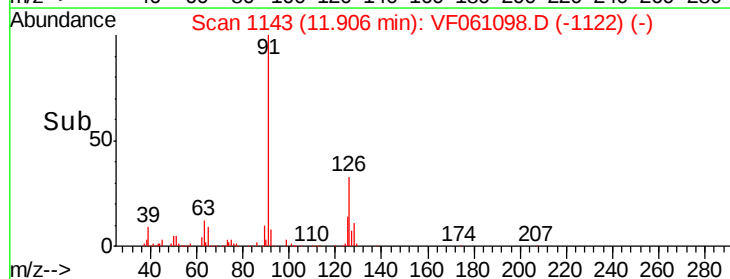
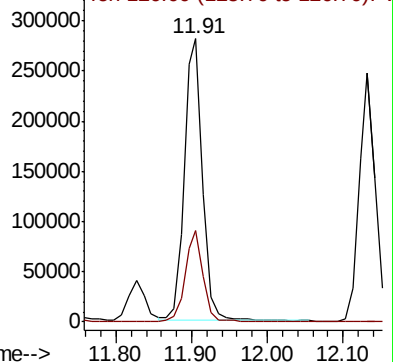
Tgt Ion: 91 Resp: 475366

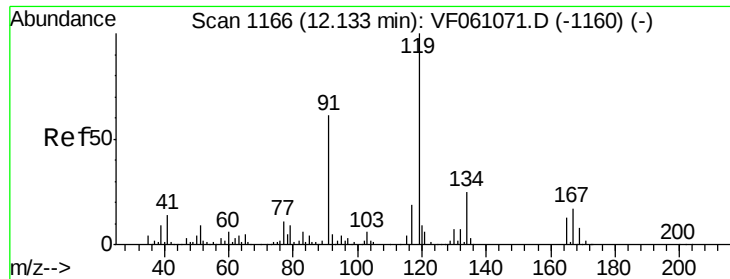
Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.0	47.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

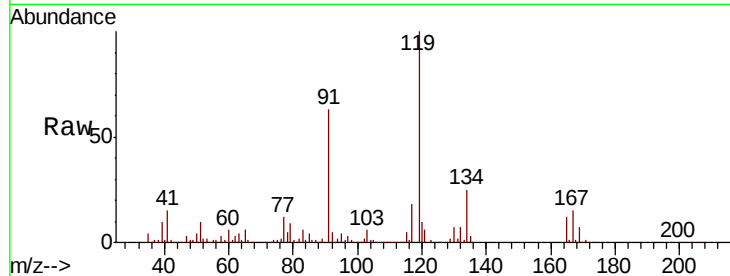




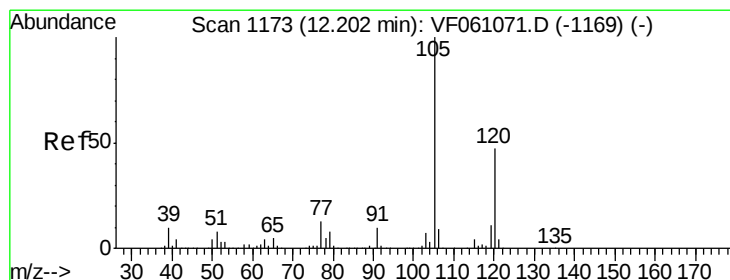
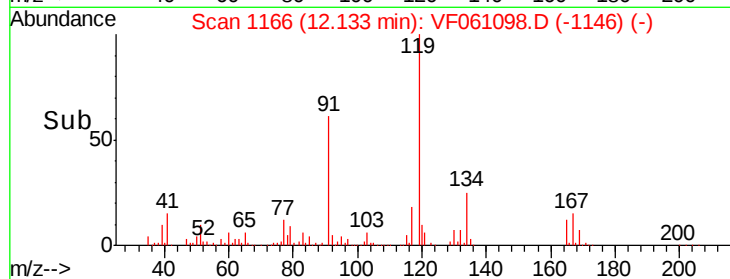
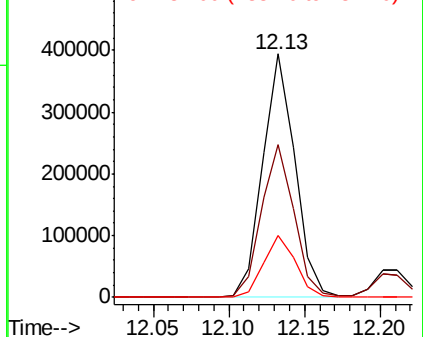
#83
tert-Butylbenzene
Concen: 49.610 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.0	30.5	91.5
134	25.2	12.4	37.4

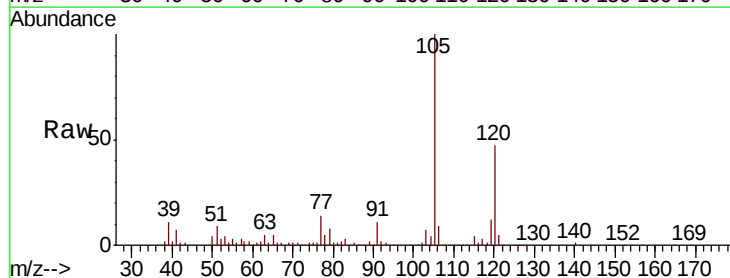


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

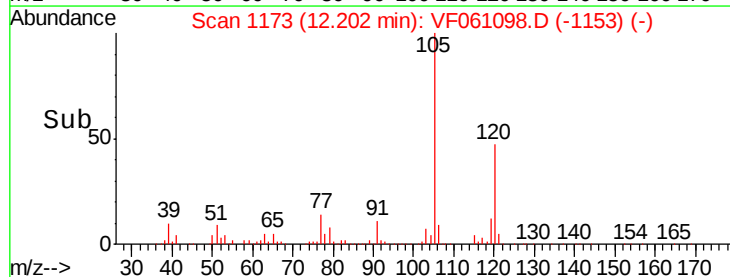
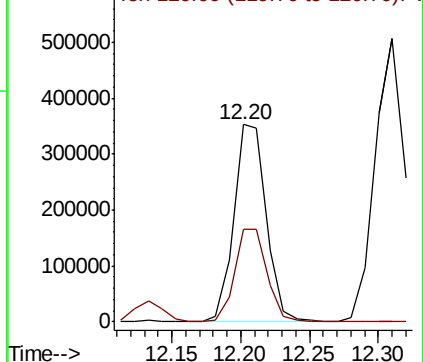


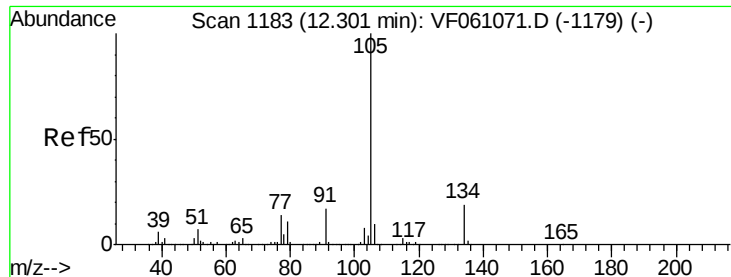
#84
1,2,4-Trimethylbenzene
Concen: 49.767 ug/l
RT: 12.20 min Scan# 1173
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.6	71.0



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

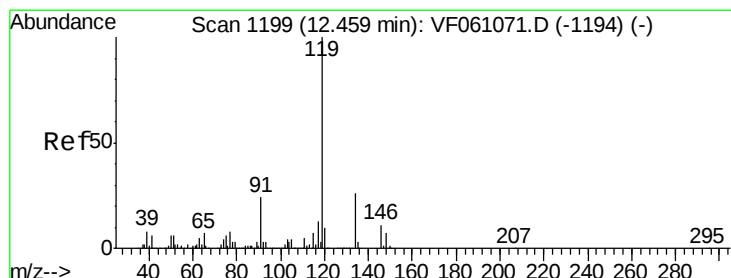
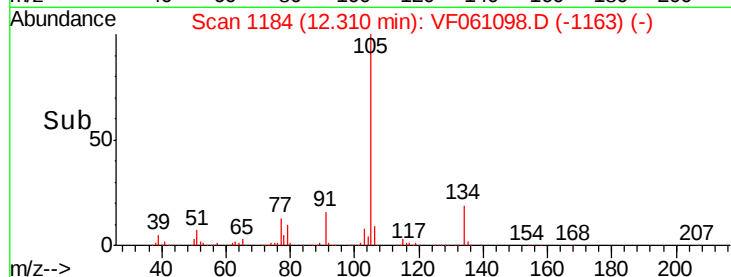
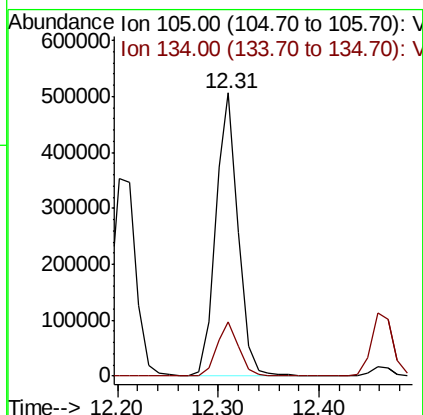
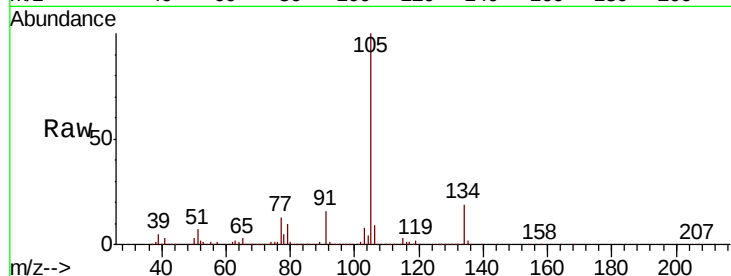




#85
 sec-Butylbenzene
 Concen: 49.613 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

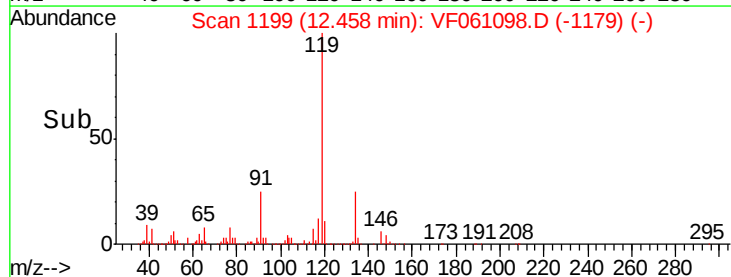
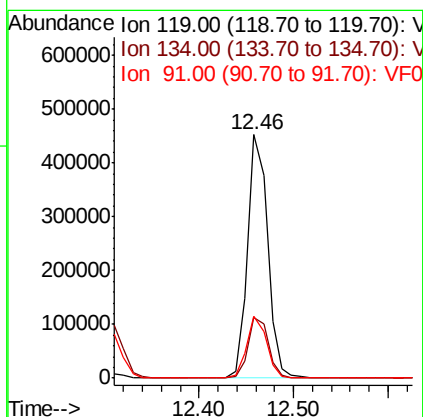
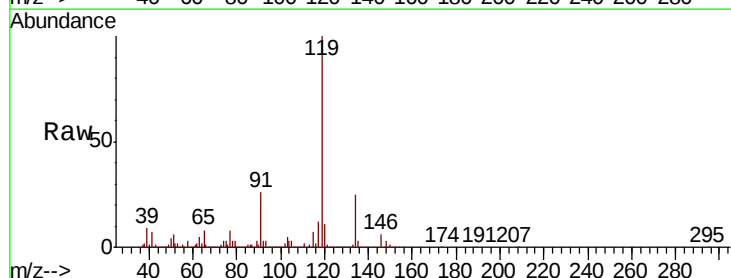
Instrument :
 MSVOA_F
 ClientSampleId :

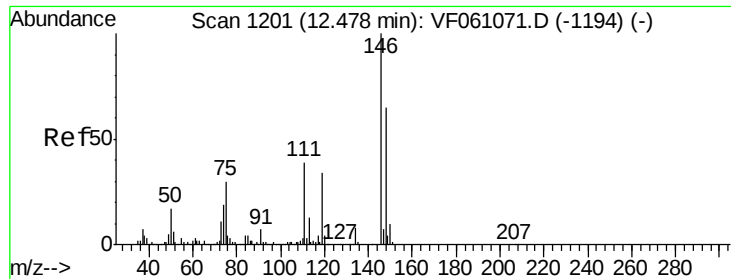
Tot Ion:105 Resp: 774695
 Ion Ratio Lower Upper
 105 100
 134 19.3 9.4 28.2



#86
 p-Isopropyltoluene
 Concen: 51.238 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. 0.00 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Tgt Ion:119 Resp: 664096
 Ion Ratio Lower Upper
 119 100
 134 24.7 12.8 38.4
 91 25.6 12.2 36.6

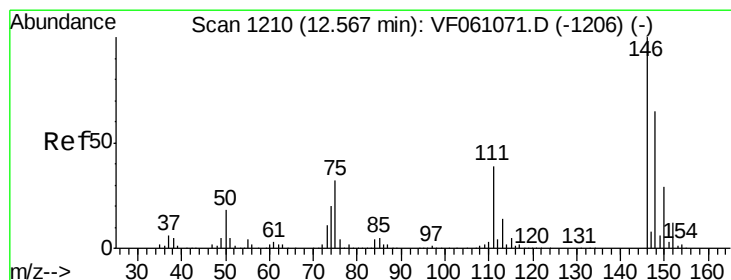
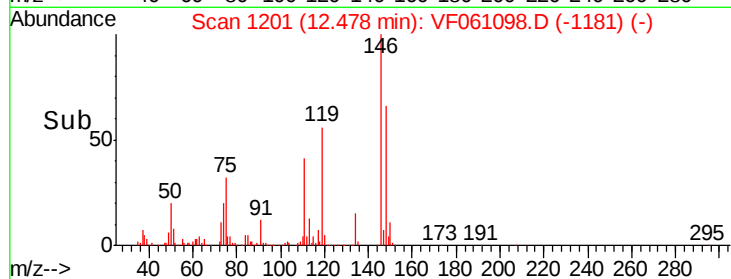
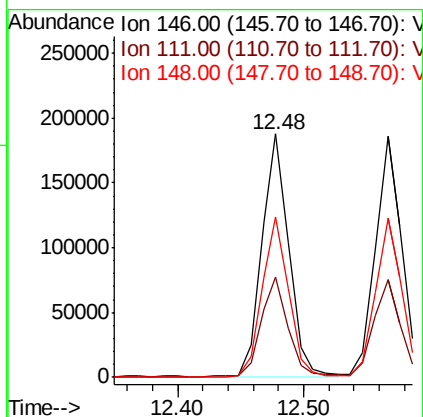
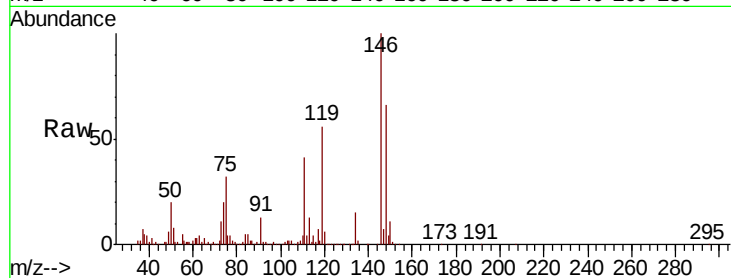




#87
 1,3-Dichlorobenzene
 Concen: 57.286 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

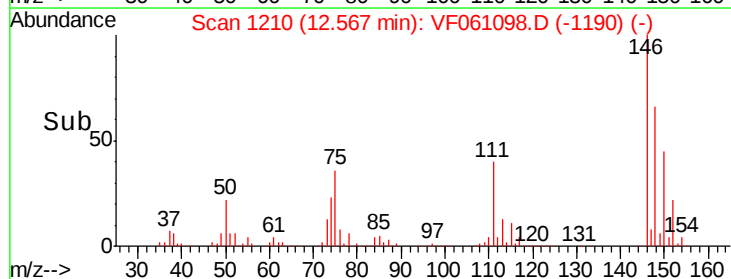
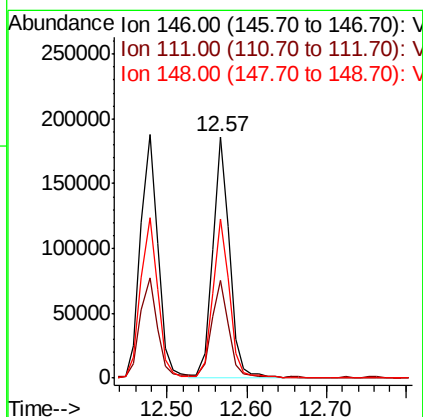
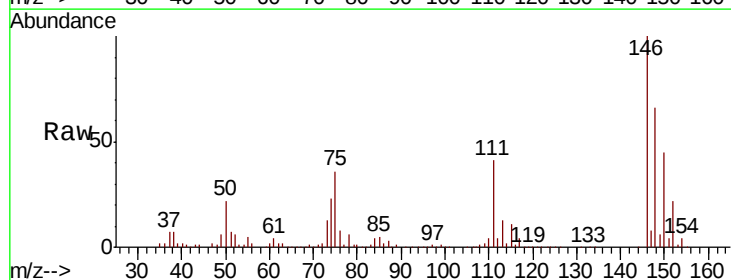
Instrument :
 MSVOA_F
 ClientSampleId :

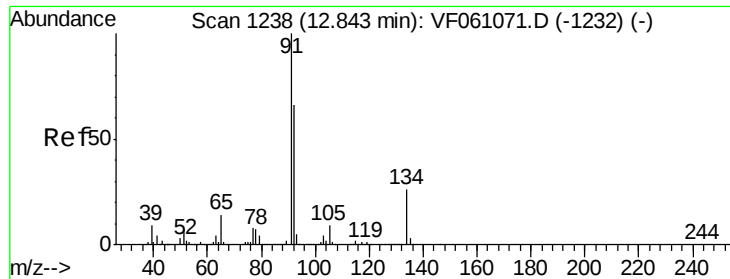
Tot Ion:146 Resp: 280303
 Ion Ratio Lower Upper
 146 100
 111 41.4 19.3 57.9
 148 65.7 32.4 97.2



#88
 1,4-Dichlorobenzene
 Concen: 49.854 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Tgt Ion:146 Resp: 278278
 Ion Ratio Lower Upper
 146 100
 111 40.7 19.4 58.4
 148 66.0 32.4 97.0

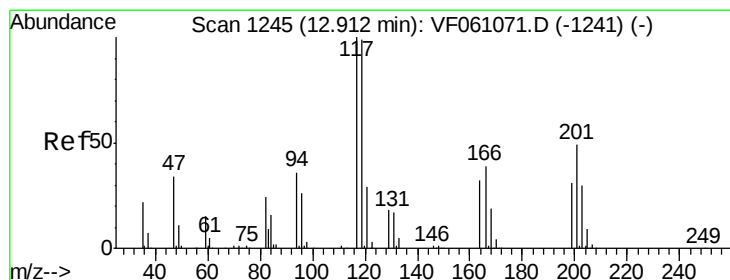
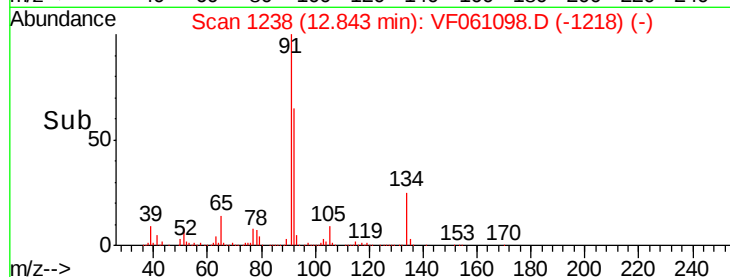
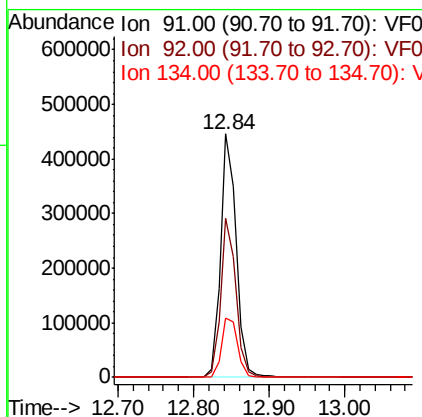
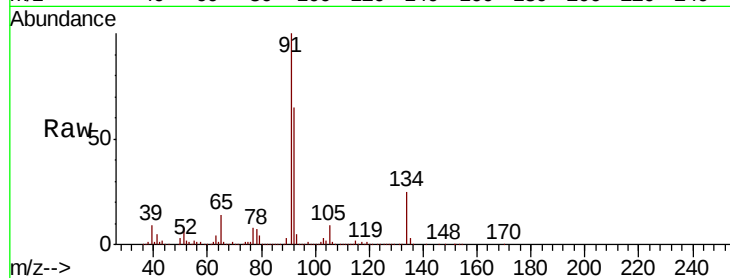




#89
n-Butylbenzene
Concen: 49.325 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

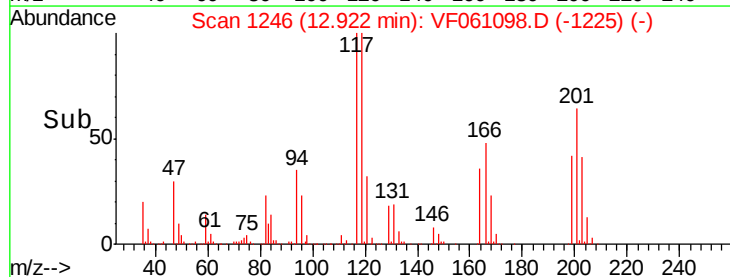
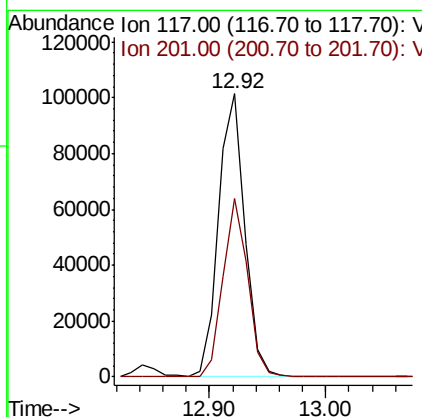
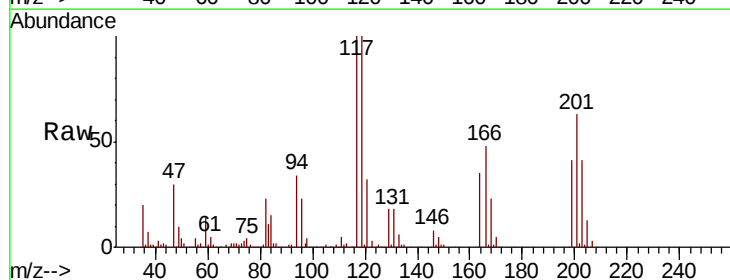
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 91 Resp: 647823
Ion Ratio Lower Upper
91 100
92 65.3 32.8 98.4
134 24.6 13.2 39.5



#90
Hexachloroethane
Concen: 49.461 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion: 117 Resp: 158384
Ion Ratio Lower Upper
117 100
201 63.2 24.9 74.8

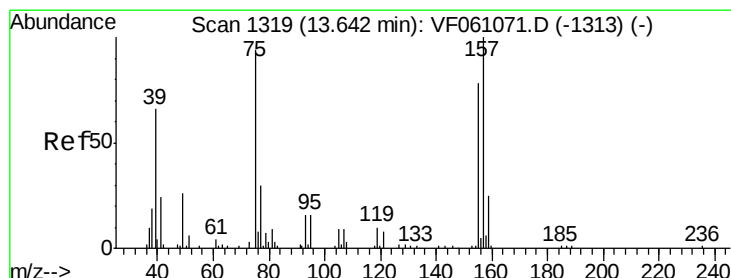
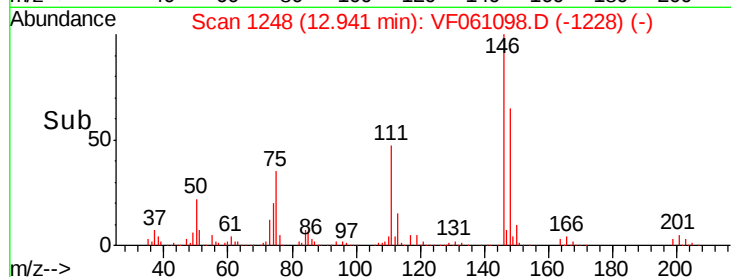
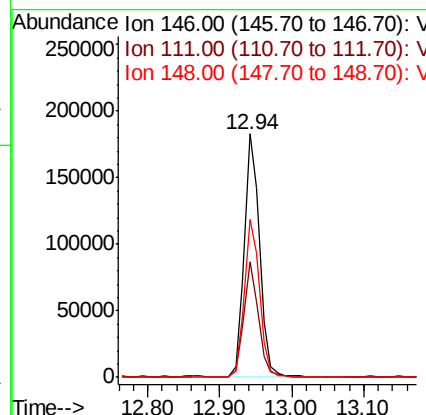
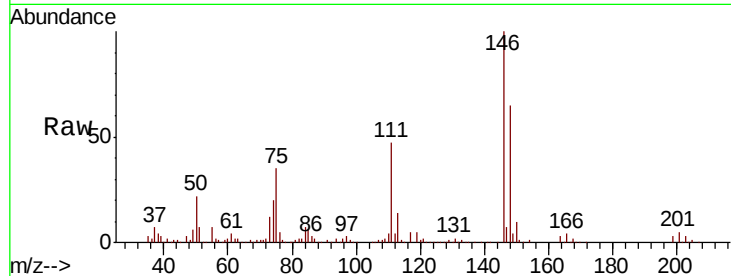




#91
 1,2-Dichlorobenzene
 Concen: 50.337 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

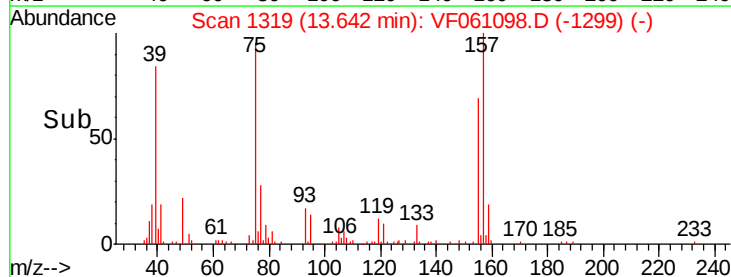
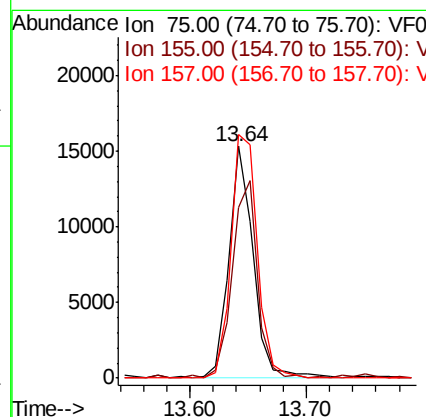
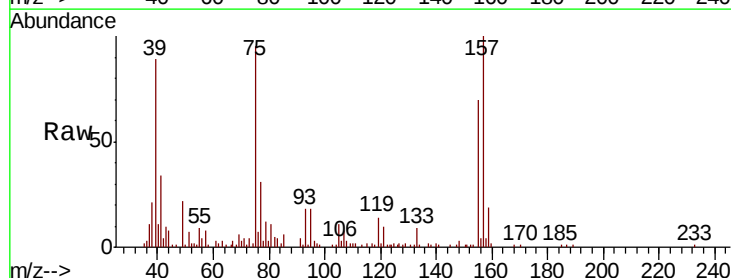
Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.3	23.2	69.5
148	64.7	32.4	97.0



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.591 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.4	41.5	124.5
157	104.9	53.2	159.6

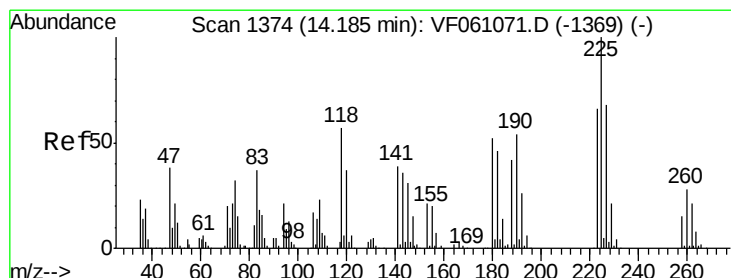
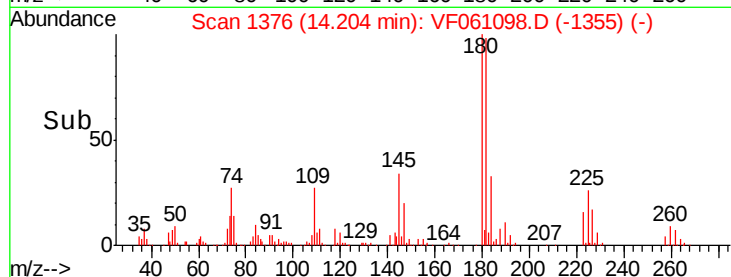
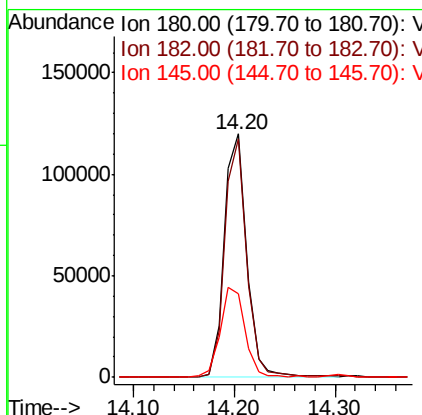
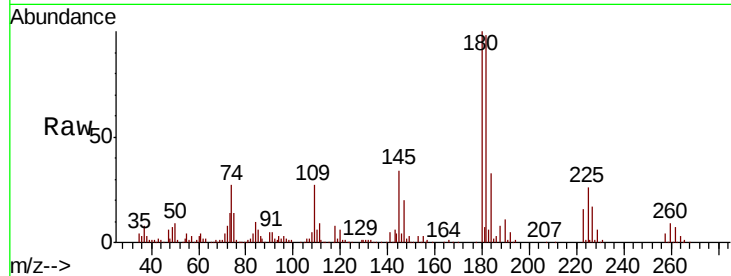




#93
 1,2,4-Trichlorobenzene
 Concen: 48.691 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

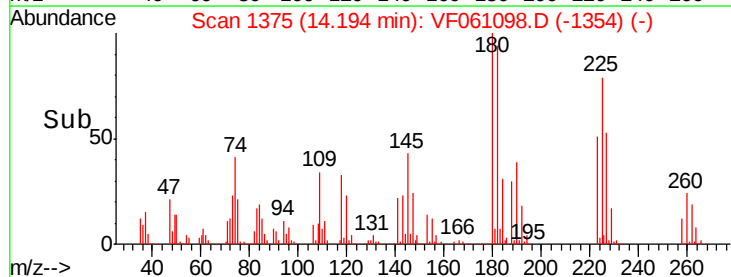
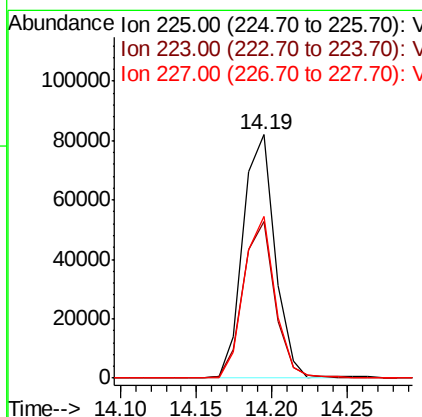
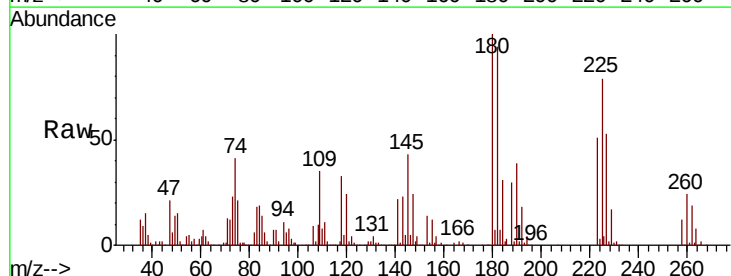
Instrument :
 MSVOA_F
 ClientSampleId :

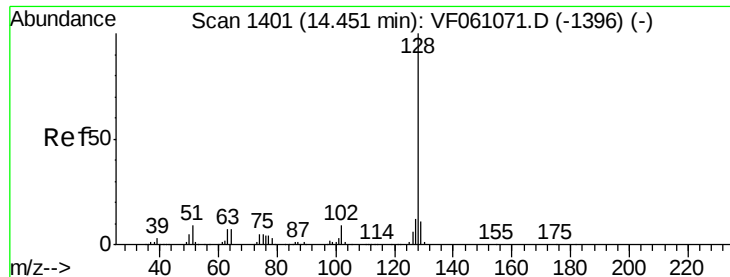
Tot Ion:180 Resp: 187658
 Ion Ratio Lower Upper
 180 100
 182 98.1 46.9 140.6
 145 34.1 20.5 61.6



#94
 Hexachlorobutadiene
 Concen: 49.284 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.01 min
 Lab File: VF061098.D
 Acq: 19 Dec 2018 21:29

Tgt Ion:225 Resp: 120977
 Ion Ratio Lower Upper
 225 100
 223 64.3 32.8 98.3
 227 66.6 34.0 101.8

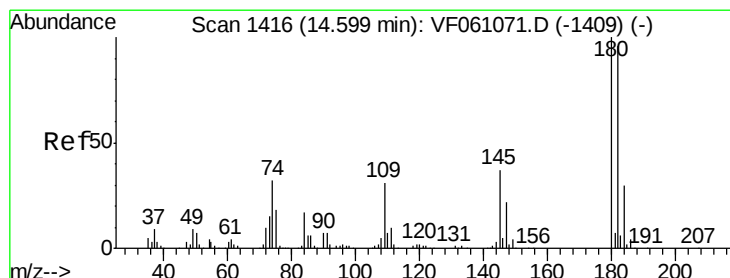
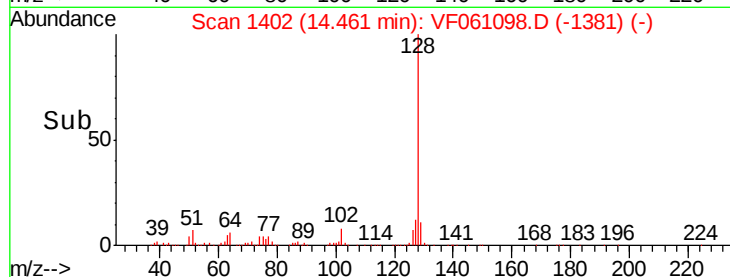
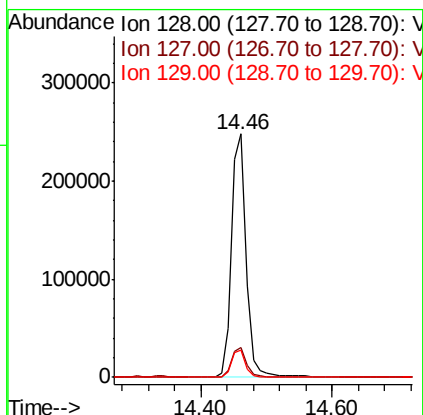
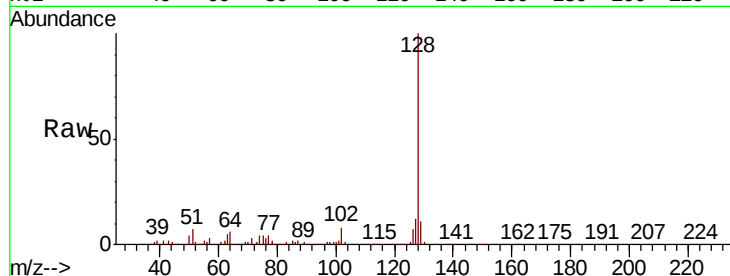




#95
Naphthalene
Concen: 55.602 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. 0.01 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 391307
Ion Ratio Lower Upper
128 100
127 12.1 9.4 14.2
129 11.4 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 50.073 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.00 min
Lab File: VF061098.D
Acq: 19 Dec 2018 21:29

Tgt Ion:180 Resp: 178404
Ion Ratio Lower Upper
180 100
182 91.4 47.9 143.8
145 37.8 18.6 55.8

