

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061103.D
 Acq On : 20 Dec 2018 12:52
 Operator : VA/AP
 Sample : VF1220SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 21 06:40:03 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	245496	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	438561	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	385395	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	183010	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	143887	45.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.14%	
35) Dibromofluoromethane	4.11	113	162305	46.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.40%	
50) Toluene-d8	7.56	98	470625	47.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.54%	
62) 4-Bromofluorobenzene	11.41	95	208701	45.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	98909	18.124	ug/l	98
3) Chloromethane	1.10	50	66853	21.386	ug/l	100
4) Vinyl Chloride	1.14	62	61031	21.046	ug/l	87
5) Bromomethane	1.33	94	40694	20.232	ug/l	94
6) Chloroethane	1.38	64	24304	18.189	ug/l	91
7) Trichlorofluoromethane	1.49	101	97821	17.667	ug/l	97
8) Diethyl Ether	1.63	74	16570	21.854	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	55153	19.212	ug/l	94
10) Methyl Iodide	1.91	142	76234	16.846	ug/l	89
11) Tert butyl alcohol	2.57	59	13035	102.301	ug/l #	93
12) 1,1-Dichloroethene	1.79	96	45729	21.131	ug/l	88
13) Acrolein	1.92	56	308	3.345	ug/l	88
14) Allyl chloride	2.09	41	49962	22.185	ug/l	89
15) Acrylonitrile	2.95	53	33845	114.869	ug/l	90
16) Acetone	2.24	43	59592	94.408	ug/l #	86
17) Carbon Disulfide	1.83	76	94581	14.462	ug/l	99
18) Methyl Acetate	2.35	43	26153	20.026	ug/l	98
19) Methyl tert-butyl Ether	2.44	73	88402	18.404	ug/l	96
20) Methylene Chloride	2.26	84	33363	13.238	ug/l	93
21) trans-1,2-Dichloroethene	2.31	96	35934	15.525	ug/l	93
22) Diisopropyl ether	2.80	45	160672	21.418	ug/l	94
23) Vinyl Acetate	3.20	43	375697	108.562	ug/l	98
24) 1,1-Dichloroethane	2.87	63	92969	20.917	ug/l	100
25) 2-Butanone	4.34	43	109871	107.326	ug/l	96
26) 2,2-Dichloropropane	3.59	77	54344	21.306	ug/l	87
27) cis-1,2-Dichloroethene	3.48	96	71585	20.202	ug/l	95
28) Bromochloromethane	3.72	49	47909	21.244	ug/l #	87
29) Tetrahydrofuran	4.07	42	44237	106.170	ug/l	96
30) Chloroform	3.87	83	130749	19.619	ug/l	94
31) Cyclohexane	3.69	56	65386	14.177	ug/l	94
32) 1,1,1-Trichloroethane	4.09	97	77476	19.395	ug/l #	90
36) 1,1-Dichloropropene	4.28	75	101583	19.189	ug/l	98
37) Ethyl Acetate	4.12	43	40016	17.363	ug/l #	90
38) Carbon Tetrachloride	3.99	117	76042	18.862	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
 Data File : VF061103.D
 Acq On : 20 Dec 2018 12:52
 Operator : VA/AP
 Sample : VF1220SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 21 06:40:03 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)
39) Methylcyclohexane	5.45	83	103821	21.861	ug/l	98
40) Benzene	4.64	78	238337	20.936	ug/l	94
41) Methacrylonitrile	4.75	41	22215	19.871	ug/l	96
42) 1,2-Dichloroethane	4.94	62	74960	17.333	ug/l	94
43) Isopropyl Acetate	6.96	43	52605	20.580	ug/l	92
44) Trichloroethene	5.50	130	74844	20.853	ug/l	96
45) 1,2-Dichloropropane	6.24	63	62593	20.209	ug/l	98
46) Dibromomethane	6.09	93	36804	18.321	ug/l	94
47) Bromodichloromethane	6.39	83	93927	17.995	ug/l	100
48) Methyl methacrylate	6.73	41	32259	18.078	ug/l	93
49) 1,4-Dioxane	6.71	88	4454	344.000	ug/l #	79
51) 4-Methyl-2-Pentanone	8.27	43	165619	94.477	ug/l	97
52) Toluene	7.62	92	151455	20.098	ug/l	96
53) t-1,3-Dichloropropene	8.29	75	77926	18.507	ug/l	100
54) cis-1,3-Dichloropropene	7.30	75	101294	19.168	ug/l	97
55) 1,1,2-Trichloroethane	8.49	97	42817	18.953	ug/l	97
56) Ethyl methacrylate	8.62	69	43880	17.950	ug/l	96
57) 1,3-Dichloropropane	8.86	76	81028	19.831	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	44321	94.403	ug/l	98
59) 2-Hexanone	9.50	43	129391	102.064	ug/l	97
60) Dibromochloromethane	8.72	129	57610	17.790	ug/l	99
61) 1,2-Dibromoethane	8.99	107	46819	19.405	ug/l	100
64) Tetrachloroethene	8.16	164	59166	19.957	ug/l	97
65) Chlorobenzene	9.80	112	160217	20.123	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.93	131	61986	19.051	ug/l	96
67) Ethyl Benzene	9.90	91	297201	20.490	ug/l	99
68) m/p-Xylenes	10.14	106	210550	41.247	ug/l	99
69) o-Xylene	10.72	106	118418	20.917	ug/l	88
70) Styrene	10.79	104	164150	20.958	ug/l	98
71) Bromoform	10.77	173	28017	18.612	ug/l #	93
73) Isopropylbenzene	11.13	105	338267	21.449	ug/l	98
74) N-amyl acetate	11.37	43	79661	22.751	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.70	83	55229	21.100	ug/l	88
76) 1,2,3-Trichloropropane	11.80	75	37204	19.100	ug/l	97
77) Bromobenzene	11.50	156	70085	20.644	ug/l	89
78) n-propylbenzene	11.60	91	415402	20.308	ug/l	99
79) 2-Chlorotoluene	11.73	91	230160	21.274	ug/l	100
80) 1,3,5-Trimethylbenzene	11.83	105	270042	20.795	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.88	75	24981	29.845	ug/l #	77
82) 4-Chlorotoluene	11.91	91	231307	20.667	ug/l	98
83) tert-Butylbenzene	12.13	119	282028	21.105	ug/l	99
84) 1,2,4-Trimethylbenzene	12.21	105	267023	20.620	ug/l	99
85) sec-Butylbenzene	12.31	105	382523	21.935	ug/l	99
86) p-Isopropyltoluene	12.47	119	322301	22.266	ug/l	97
87) 1,3-Dichlorobenzene	12.48	146	136057	21.490	ug/l	97
88) 1,4-Dichlorobenzene	12.57	146	127583	20.466	ug/l	99
89) n-Butylbenzene	12.84	91	340312	20.553	ug/l	95
90) Hexachloroethane	12.92	117	72205	20.190	ug/l	83
91) 1,2-Dichlorobenzene	12.94	146	123718	20.384	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	9001	18.740	ug/l	84

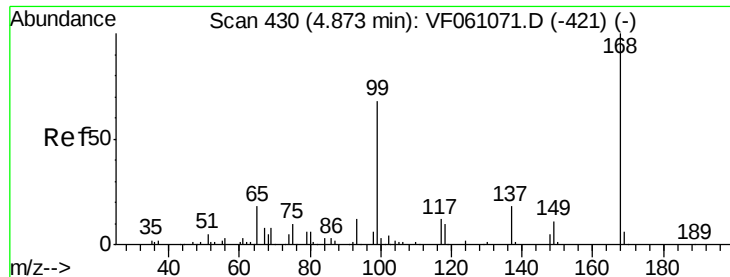
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122018\
Data File : VF061103.D
Acq On : 20 Dec 2018 12:52
Operator : VA/AP
Sample : VF1220SBSD01
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Dec 21 06:40:03 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)
93) 1,2,4-Trichlorobenzene	14.20	180	86035	19.988	ug/l	92
94) Hexachlorobutadiene	14.19	225	55596	20.280	ug/l	94
95) Naphthalene	14.46	128	152192	19.363	ug/l	100
96) 1,2,3-Trichlorobenzene	14.61	180	77113	19.379	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: VF061103.D

Acq: 20 Dec 2018 12:52

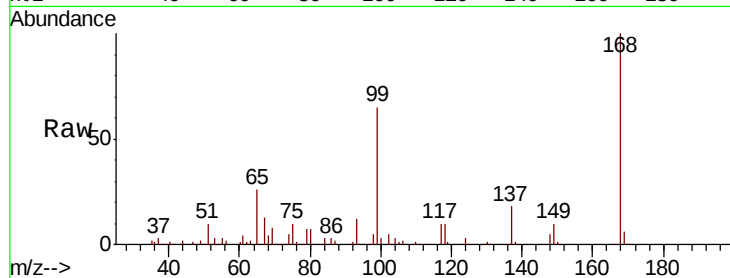
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 245496

Ion Ratio Lower Upper

168 100

99 65.2 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

80000

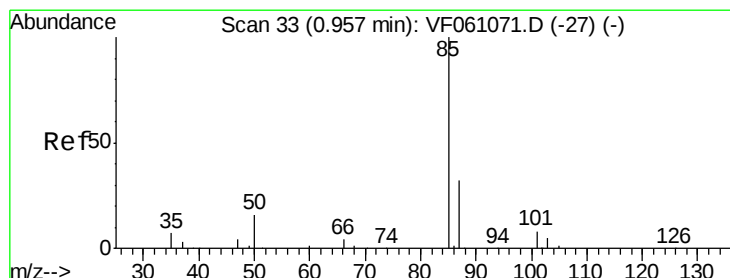
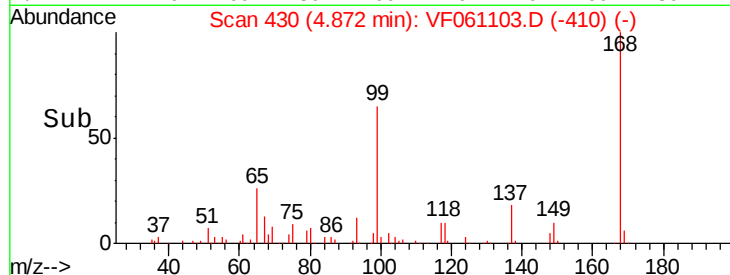
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 18.124 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061103.D

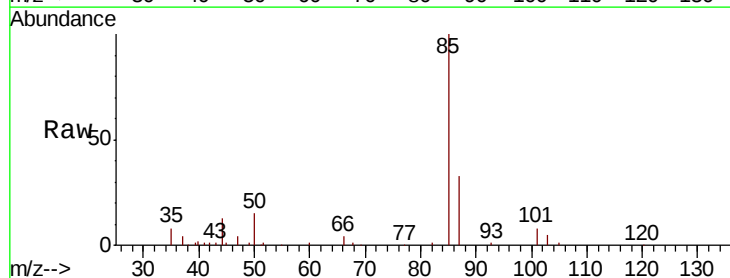
Acq: 20 Dec 2018 12:52

Tgt Ion: 85 Resp: 98909

Ion Ratio Lower Upper

85 100

87 32.8 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

30000

25000

20000

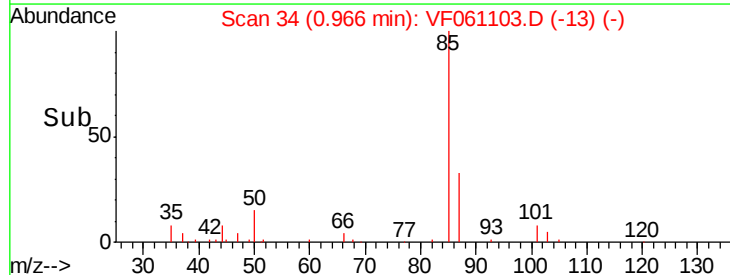
15000

10000

5000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 21.386 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

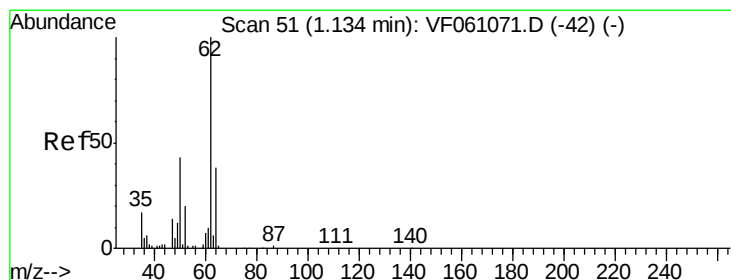
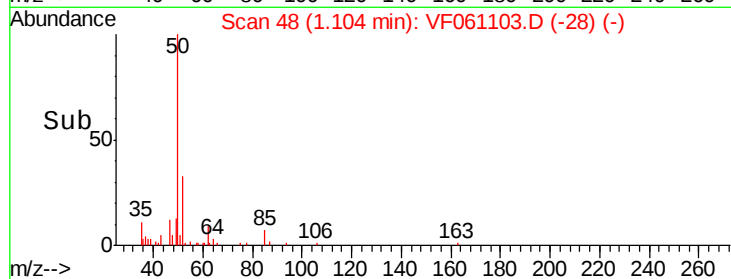
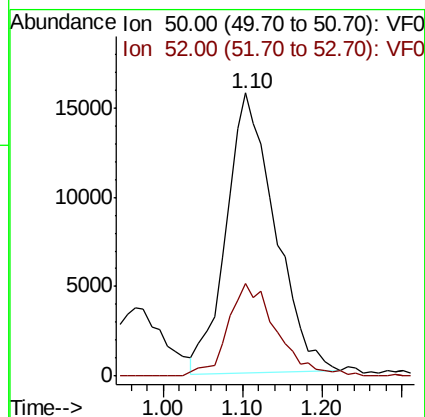
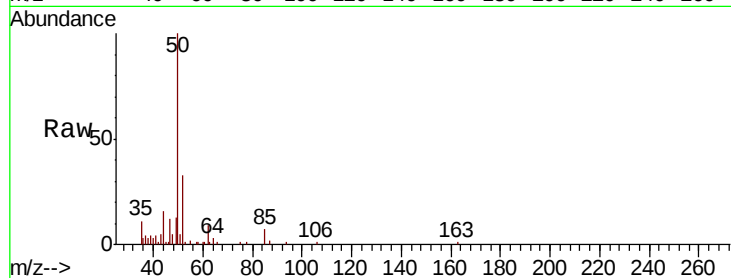
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 66853

Ion Ratio Lower Upper

50 100

52 32.8 26.3 39.5



#4

Vinyl Chloride

Concen: 21.046 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061103.D

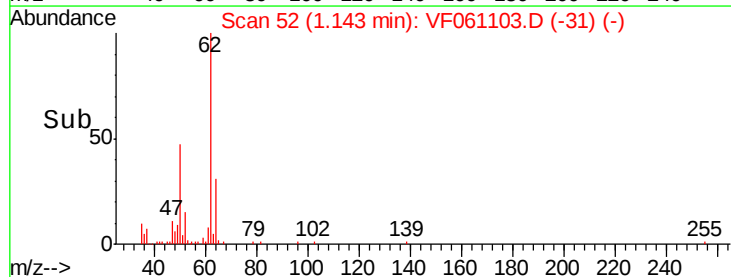
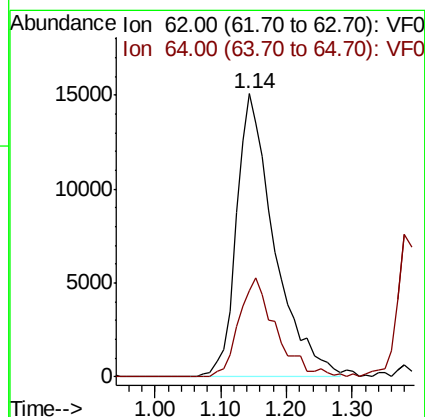
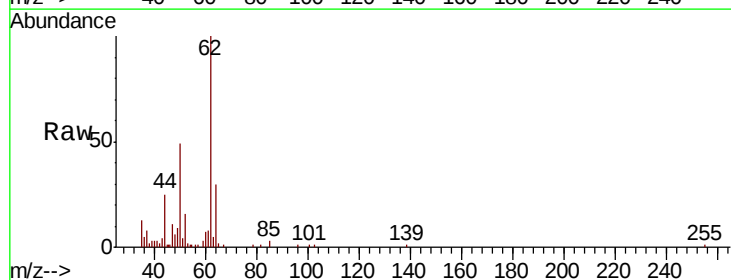
Acq: 20 Dec 2018 12:52

Tgt Ion: 62 Resp: 61031

Ion Ratio Lower Upper

62 100

64 30.4 30.4 45.6





#5

Bromomethane

Concen: 20.232 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

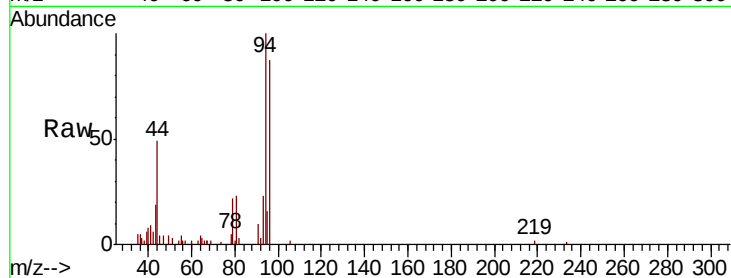
ClientSampleId :

Tot Ion: 94 Resp: 40694

Ion Ratio Lower Upper

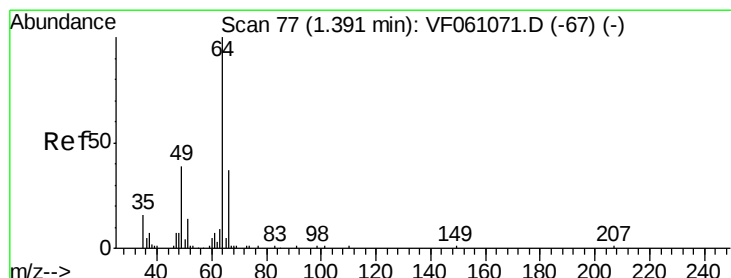
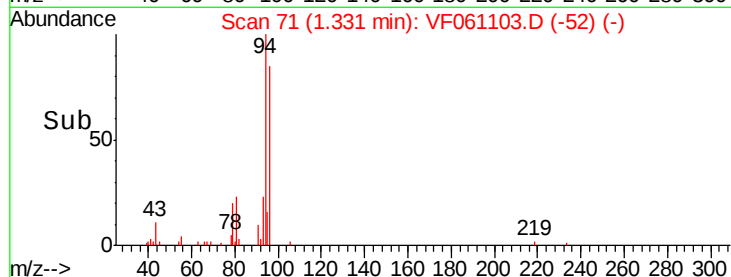
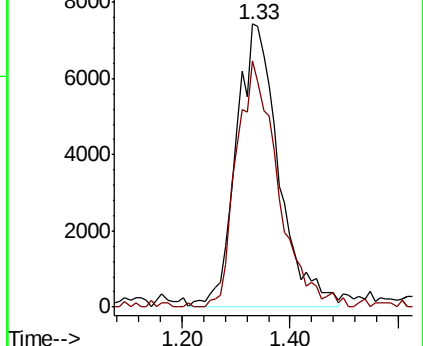
94 100

96 87.1 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 18.189 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061103.D

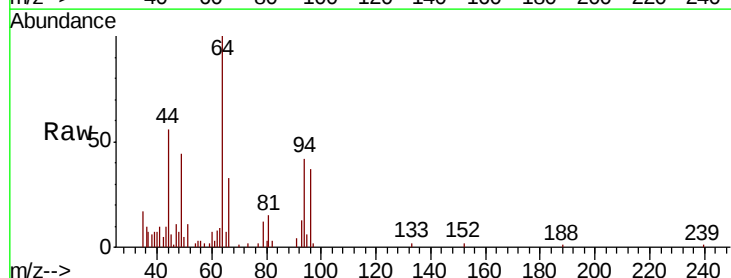
Acq: 20 Dec 2018 12:52

Tgt Ion: 64 Resp: 24304

Ion Ratio Lower Upper

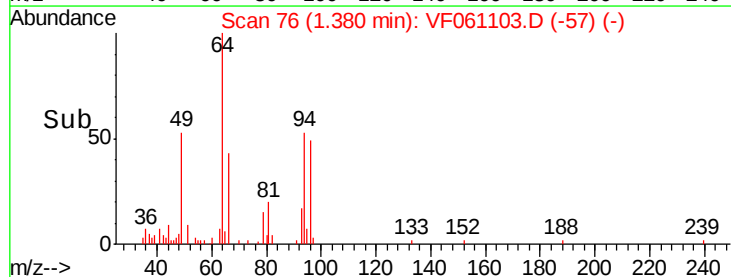
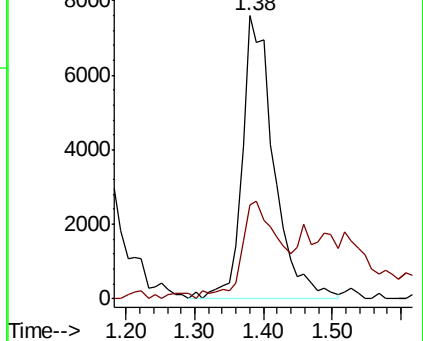
64 100

66 33.0 30.9 46.3



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 17.667 ug/l

RT: 1.49 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

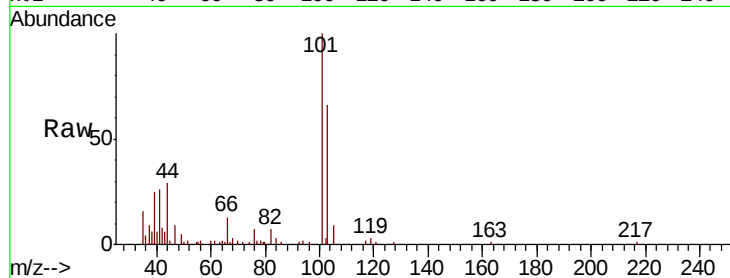
ClientSampleId :

Tot Ion:101 Resp: 97821

Ion Ratio Lower Upper

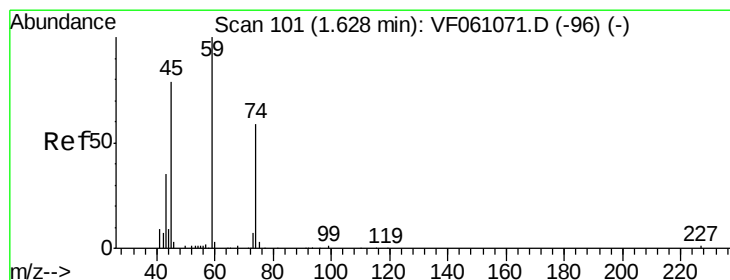
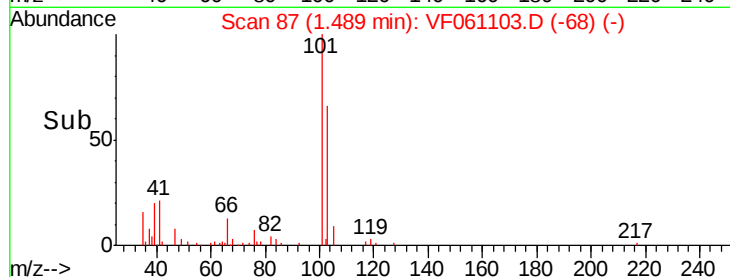
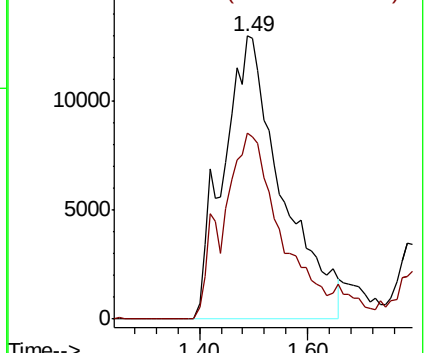
101 100

103 65.7 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: 21.854 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061103.D

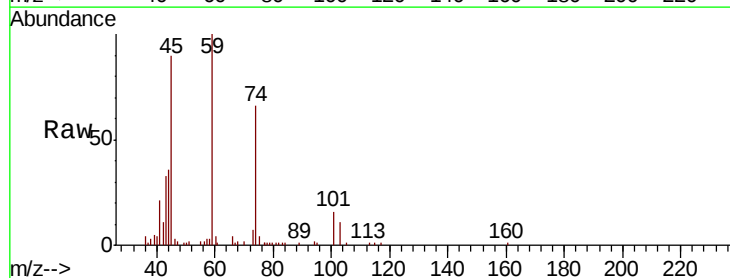
Acq: 20 Dec 2018 12:52

Tgt Ion: 74 Resp: 16570

Ion Ratio Lower Upper

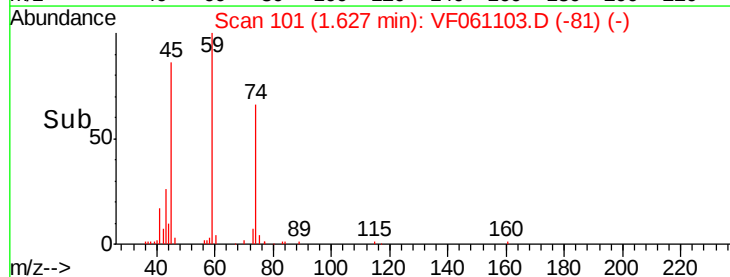
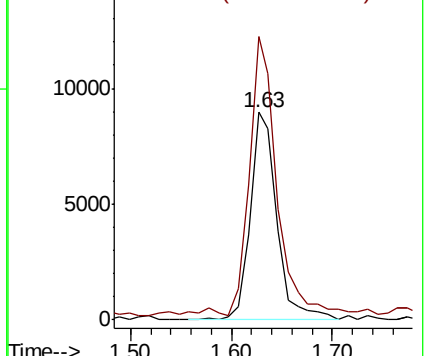
74 100

45 136.3 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: 19.212 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

ClientSampled :

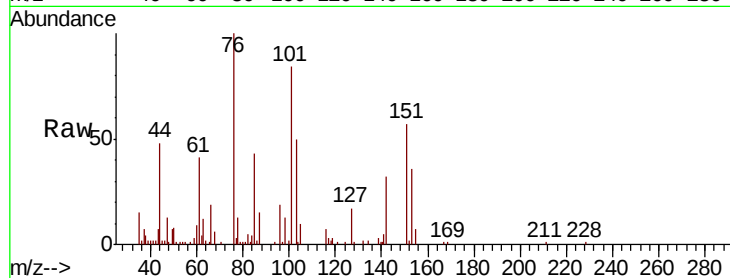
Tot Ion:101 Resp: 55153

Ion Ratio Lower Upper

101 100

85 51.1 44.5 66.7

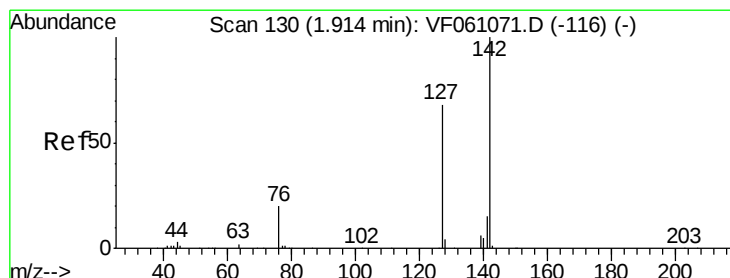
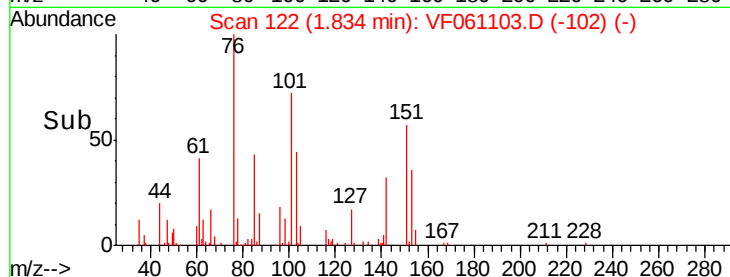
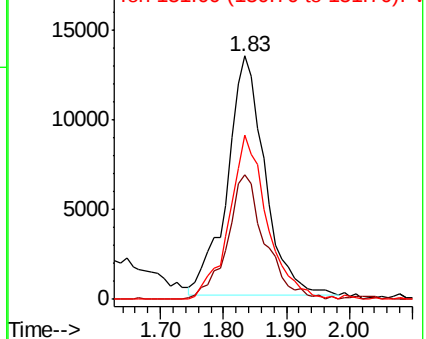
151 67.6 49.9 74.9



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: 16.846 ug/l

RT: 1.91 min Scan# 130

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

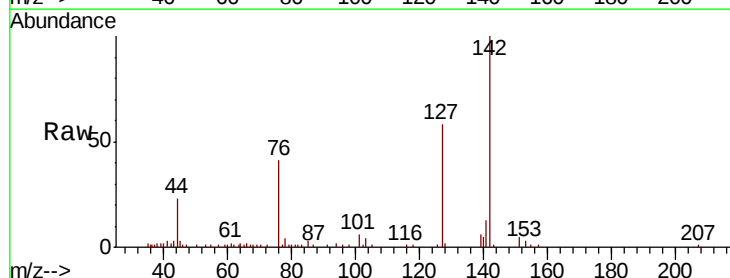
Tgt Ion:142 Resp: 76234

Ion Ratio Lower Upper

142 100

127 58.4 54.7 82.1

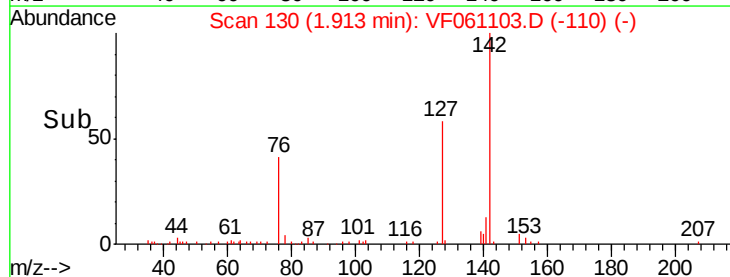
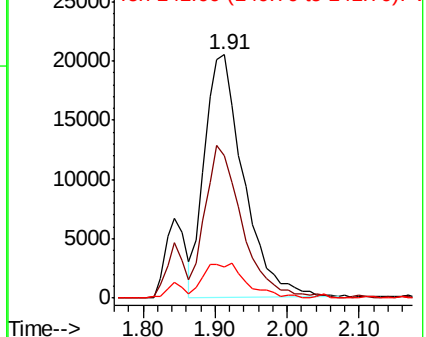
141 12.8 12.2 18.2

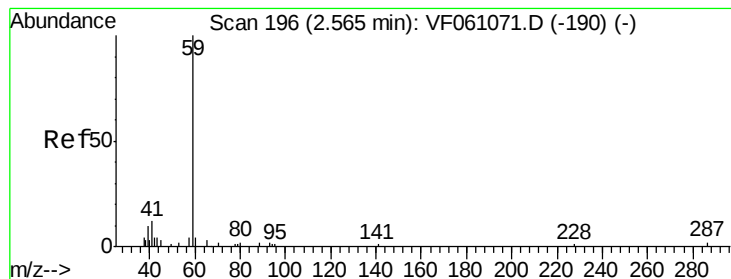


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



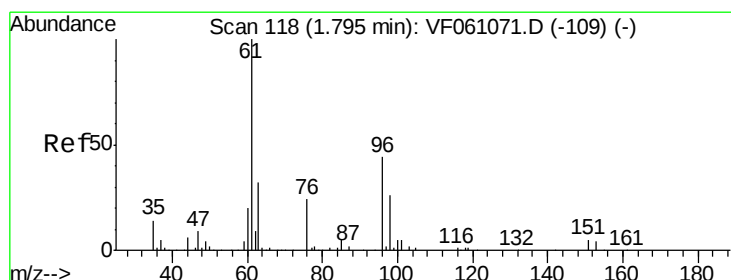
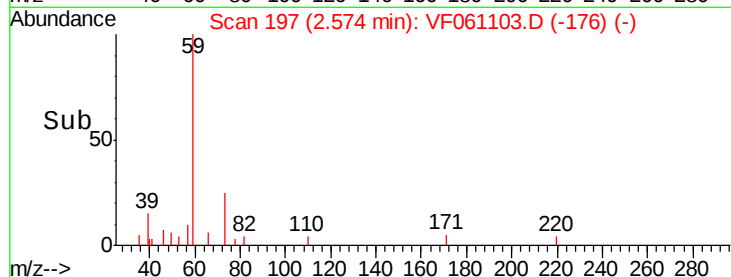
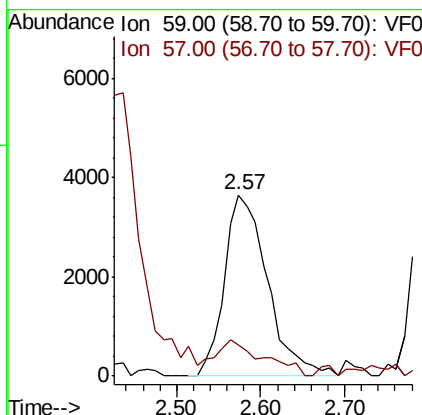
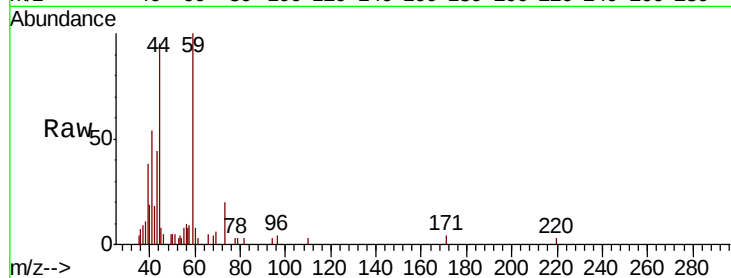


#11

Tert butyl alcohol
 Concen: 102.301 ug/l
 RT: 2.57 min Scan# 197
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Instrument :
 MSVOA_F
 ClientSampleId :

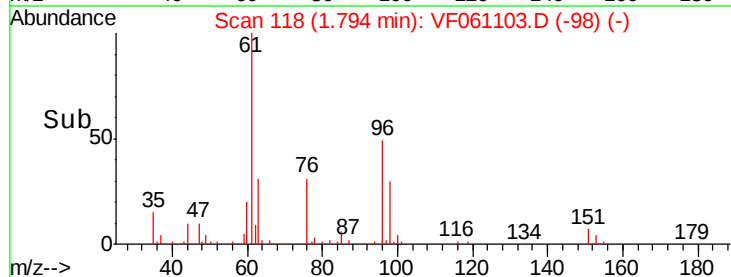
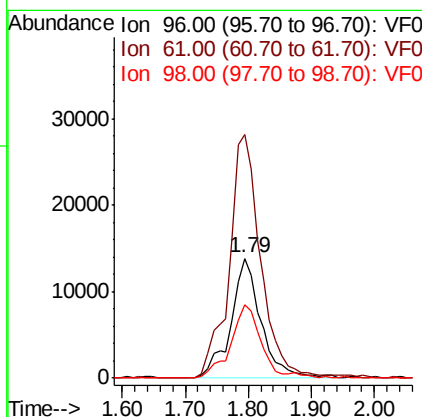
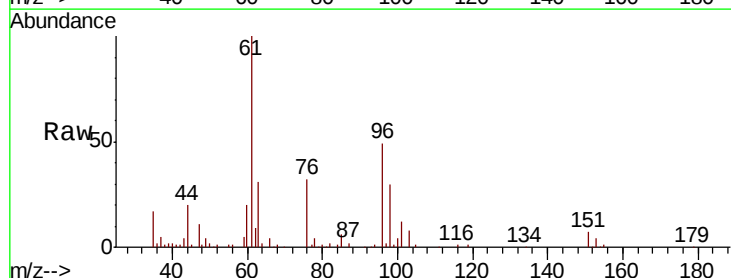
Tot Ion: 59 Resp: 13035
 Ion Ratio Lower Upper
 59 100
 57 17.4 11.5 17.3#

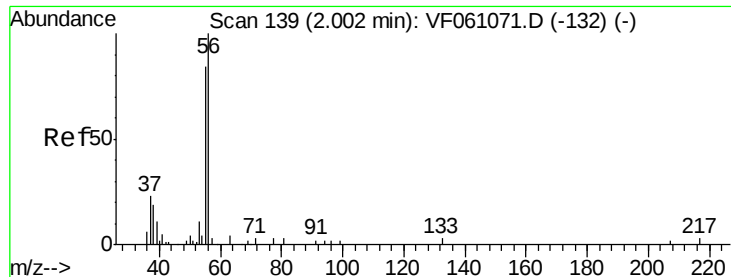


#12

1,1-Dichloroethene
 Concen: 21.131 ug/l
 RT: 1.79 min Scan# 118
 Delta R.T. -0.00 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Tgt Ion: 96 Resp: 45729
 Ion Ratio Lower Upper
 96 100
 61 203.8 182.0 273.0
 98 61.6 46.5 69.7





#13

Acrolein

Concen: 3.345 ug/l

RT: 1.92 min Scan# 131

Delta R.T. -0.08 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

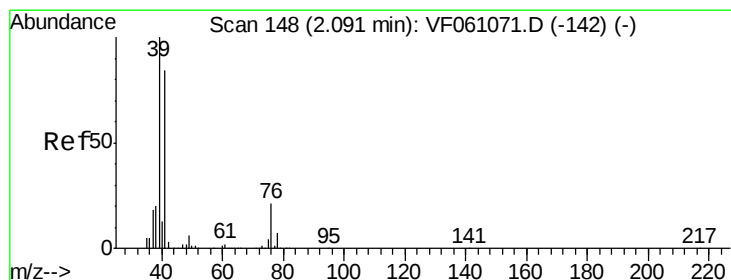
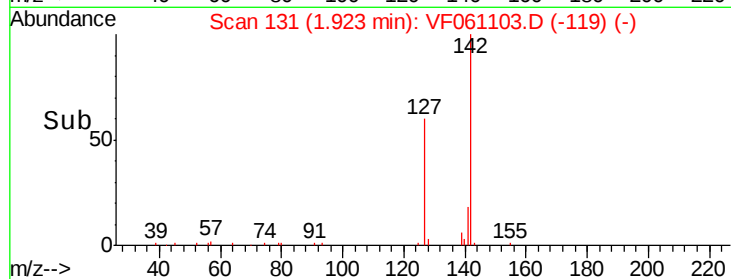
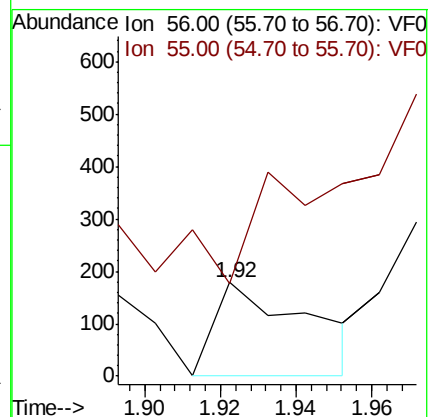
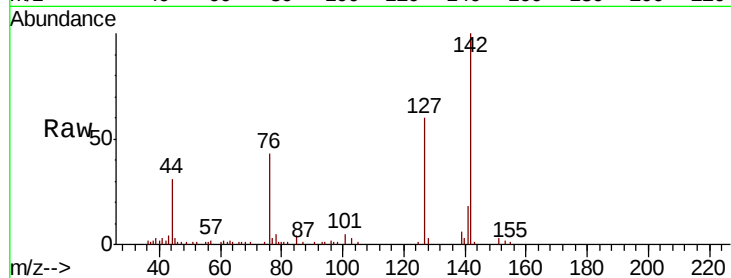
ClientSampleId :

Tot Ion: 56 Resp: 308

Ion Ratio Lower Upper

56 100

55 98.9 70.2 105.2



#14

Allyl chloride

Concen: 22.185 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

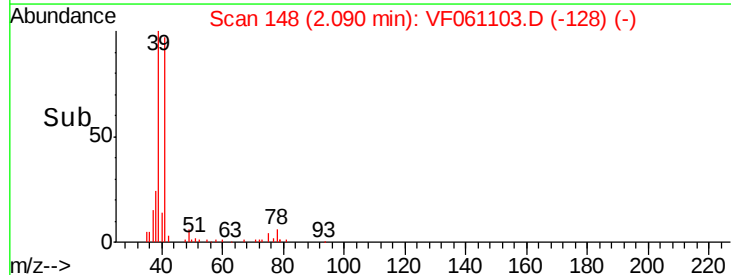
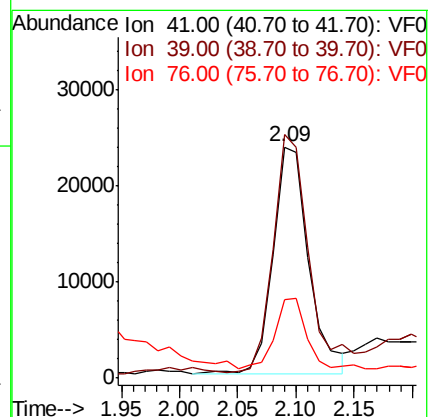
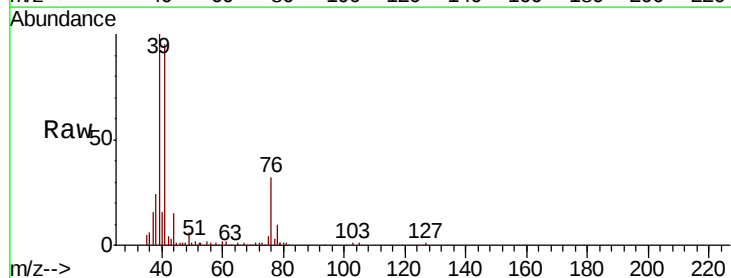
Tgt Ion: 41 Resp: 49962

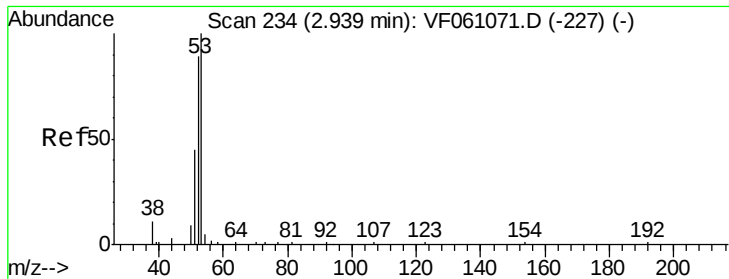
Ion Ratio Lower Upper

41 100

39 105.5 96.4 144.6

76 33.8 25.4 38.0





#15

Acrylonitrile

Concen: 114.869 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

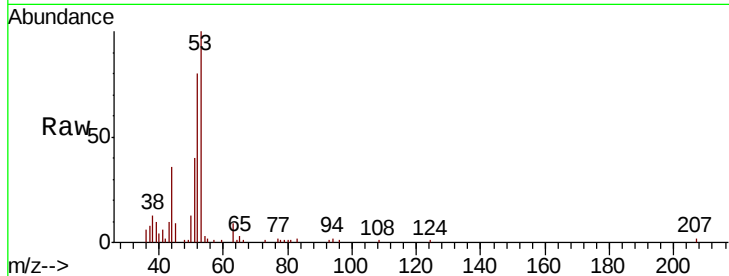
Tot Ion: 53 Resp: 33845

Ion Ratio Lower Upper

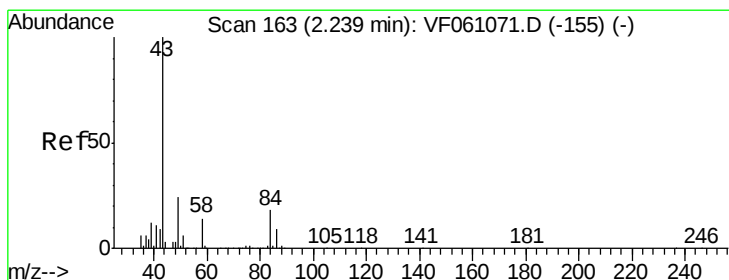
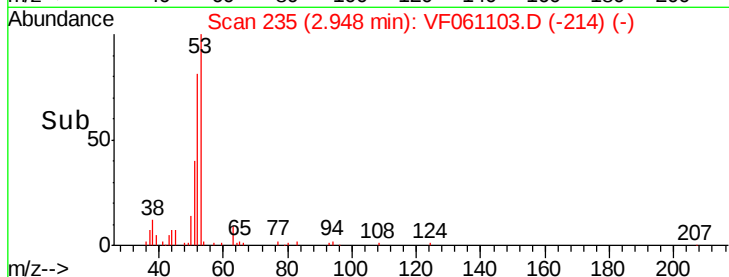
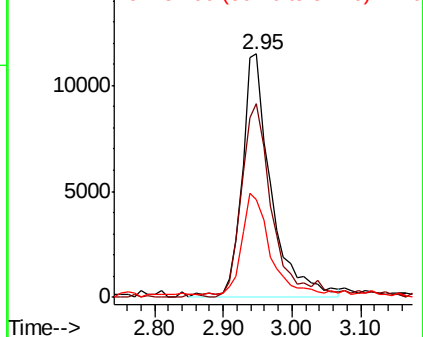
53 100

52 79.7 71.3 106.9

51 39.9 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: 94.408 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.00 min

Lab File: VF061103.D

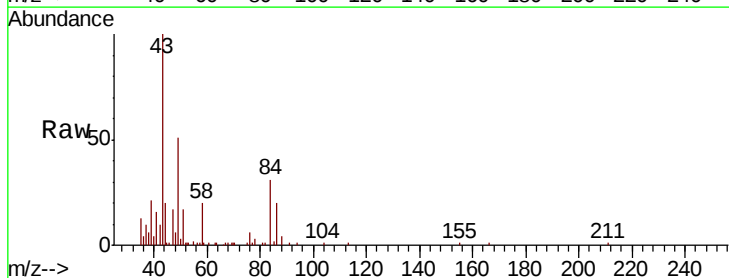
Acq: 20 Dec 2018 12:52

Tgt Ion: 43 Resp: 59592

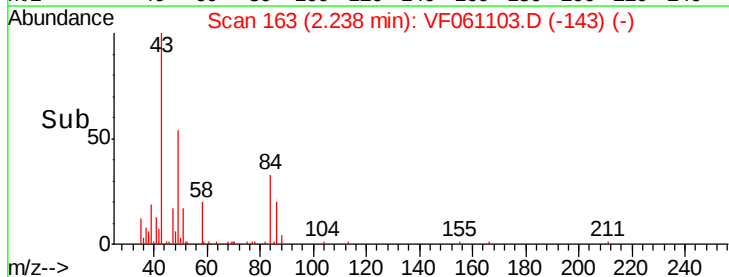
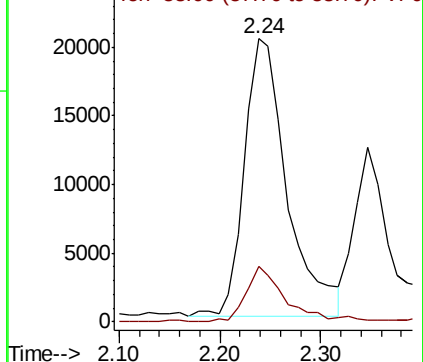
Ion Ratio Lower Upper

43 100

58 19.5 11.1 16.7#



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

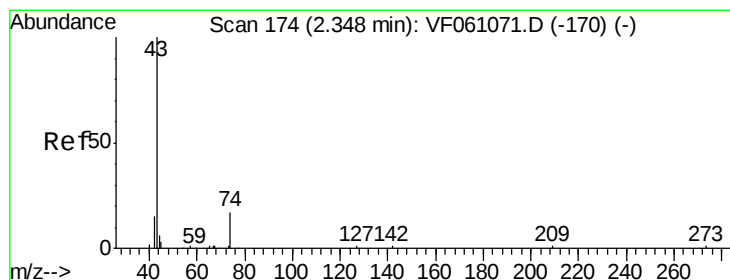
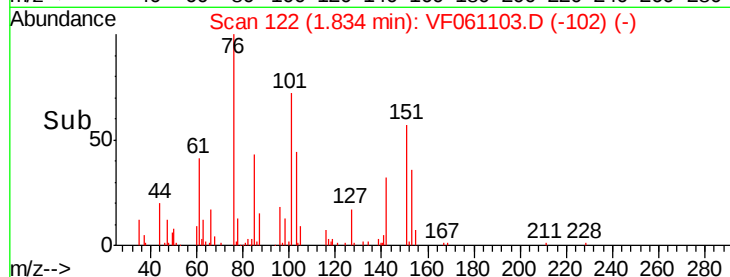
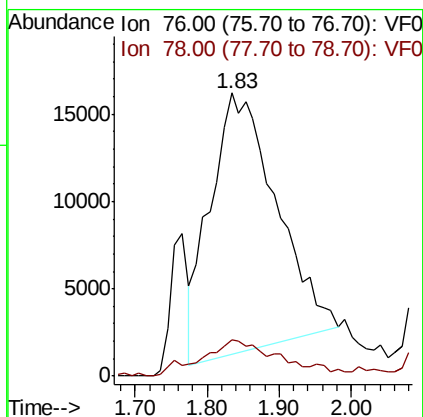
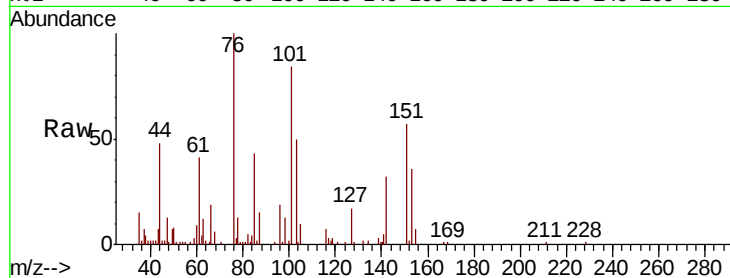




#17
Carbon Disulfide
Concen: 14.462 ug/l
RT: 1.83 min Scan# 122
Delta R.T. -0.00 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

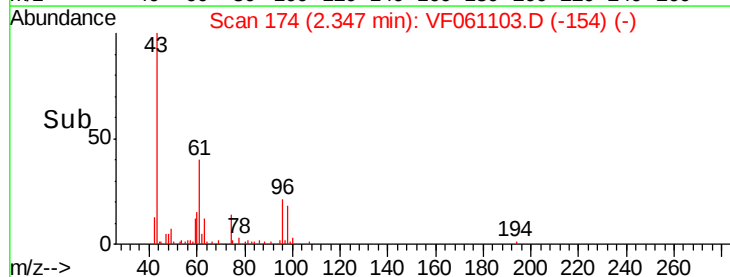
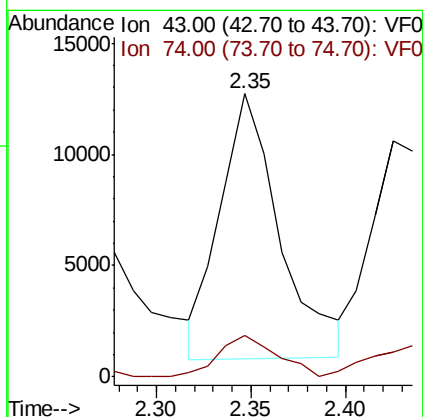
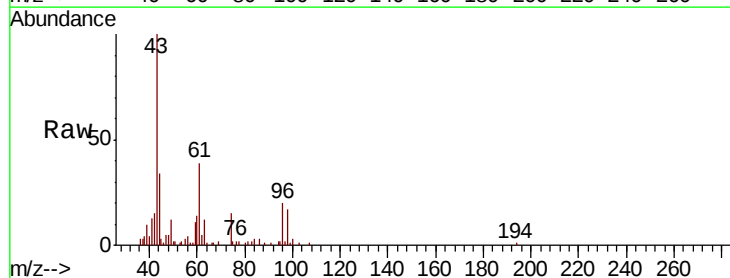
Instrument :
MSVOA_F
ClientSampleId :

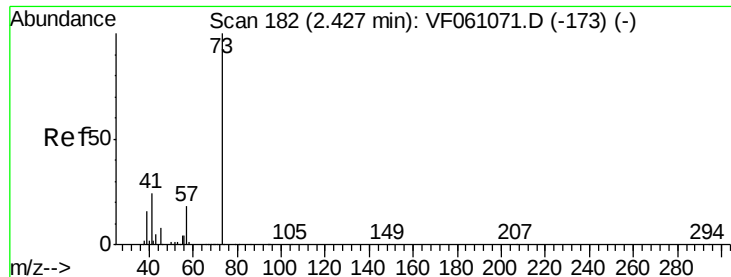
Tot Ion: 76 Resp: 94581
Ion Ratio Lower Upper
76 100
78 13.0 10.2 15.4



#18
Methyl Acetate
Concen: 20.026 ug/l
RT: 2.35 min Scan# 174
Delta R.T. -0.00 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion: 43 Resp: 26153
Ion Ratio Lower Upper
43 100
74 14.8 11.0 16.6



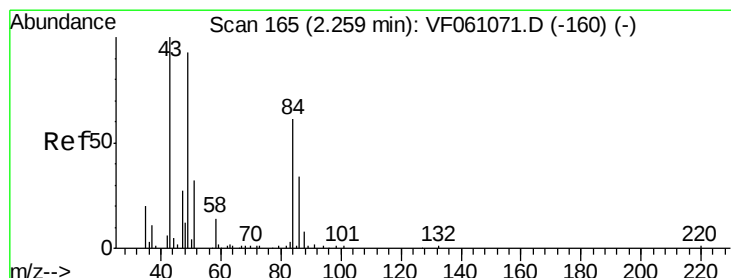
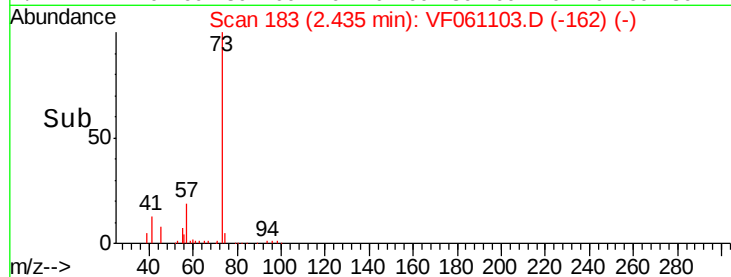
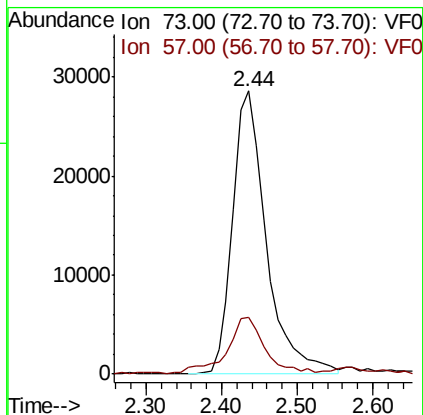
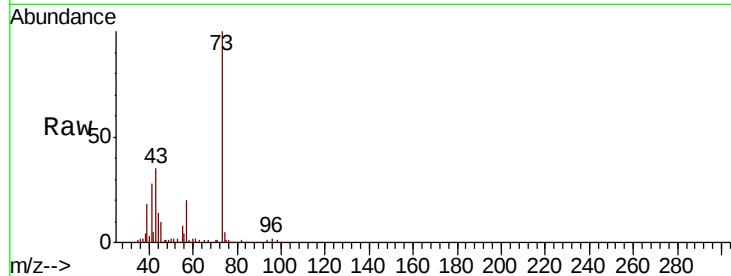


#19

Methyl tert-butyl Ether
 Concen: 18.404 ug/l
 RT: 2.44 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Instrument :
 MSVOA_F
 ClientSampleId :

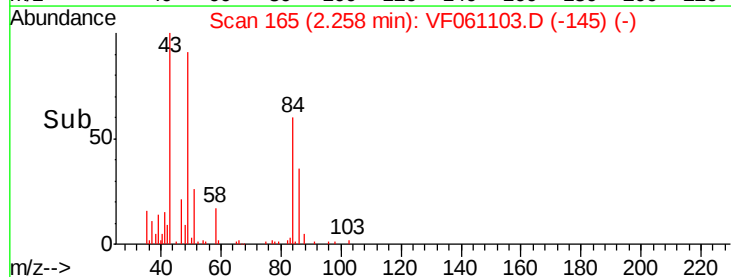
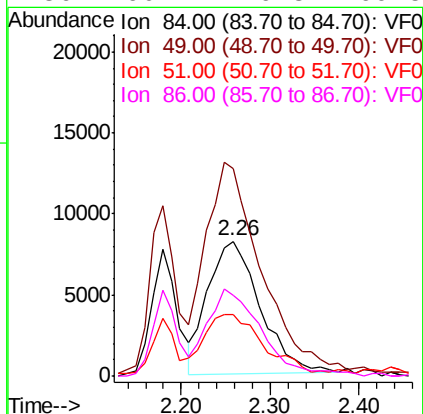
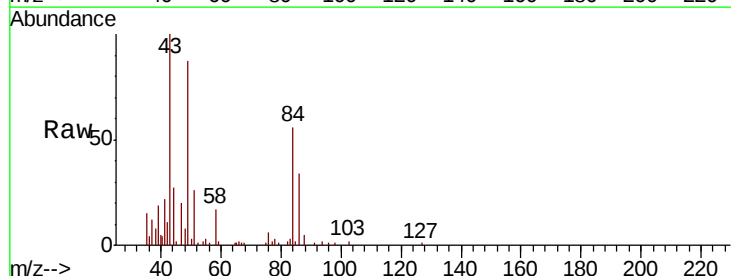
Tot Ion: 73 Resp: 88402
 Ion Ratio Lower Upper
 73 100
 57 20.0 14.5 21.7

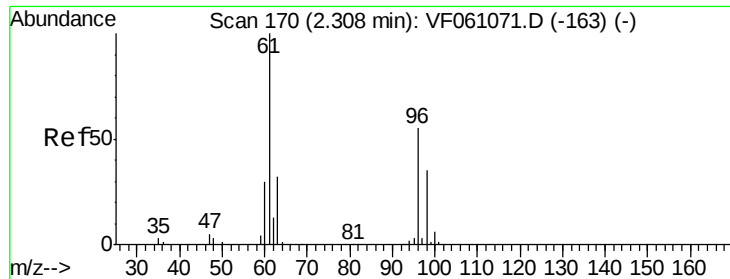


#20

Methylene Chloride
 Concen: 13.238 ug/l
 RT: 2.26 min Scan# 165
 Delta R.T. -0.00 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Tgt Ion: 84 Resp: 33363
 Ion Ratio Lower Upper
 84 100
 49 154.2 129.4 194.2
 51 45.9 44.0 66.0
 86 60.2 46.3 69.5





#21

trans-1,2-Dichloroethene

Concen: 15.525 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

ClientSampleId :

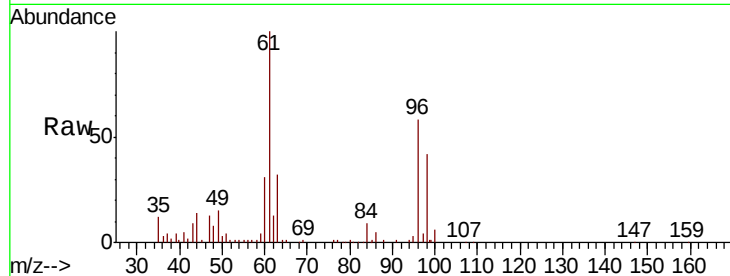
Tot Ion: 96 Resp: 35934

Ion Ratio Lower Upper

96 100

61 173.5 146.0 219.0

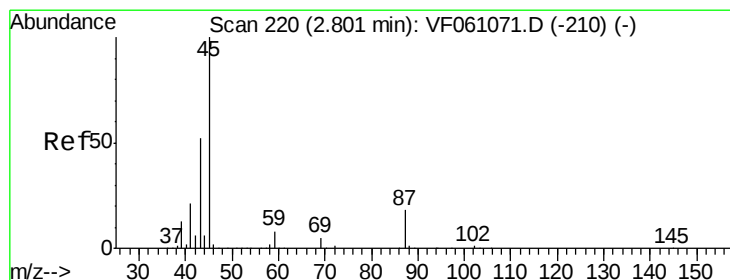
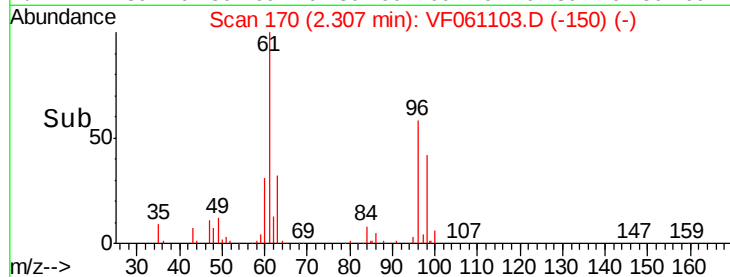
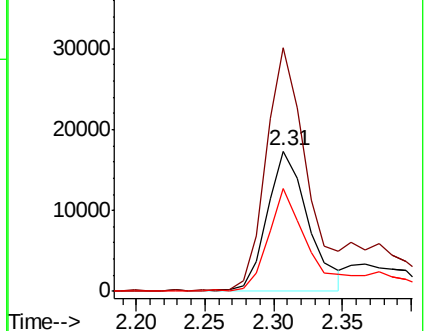
98 72.8 51.6 77.4



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 21.418 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Tgt Ion: 45 Resp: 160672

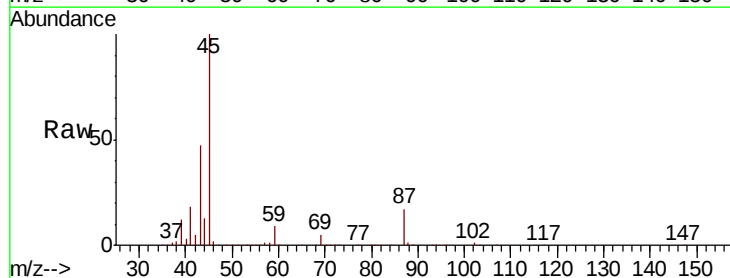
Ion Ratio Lower Upper

45 100

43 47.0 42.2 63.2

87 16.7 14.6 22.0

59 8.6 7.0 10.4

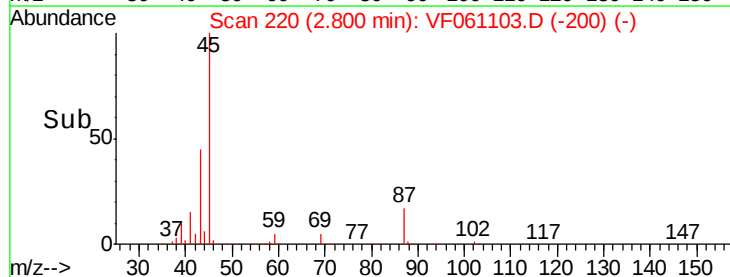
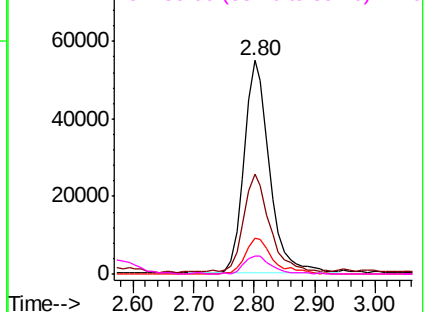


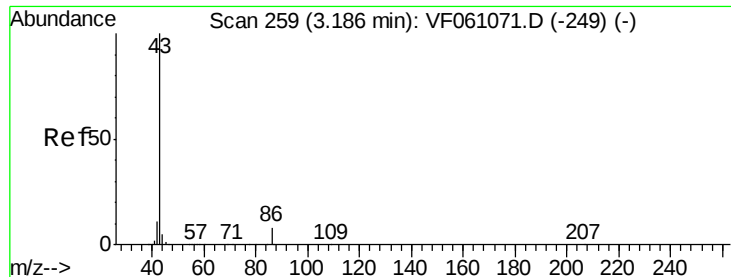
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 108.562 ug/l

RT: 3.20 min Scan# 260

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

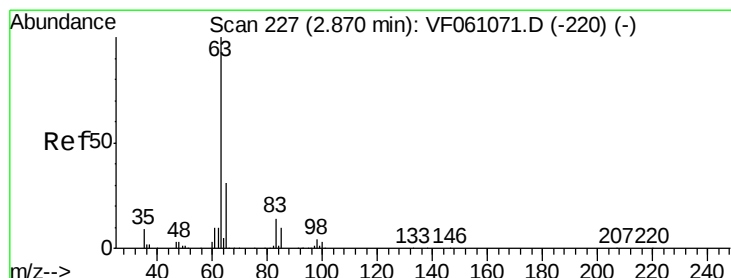
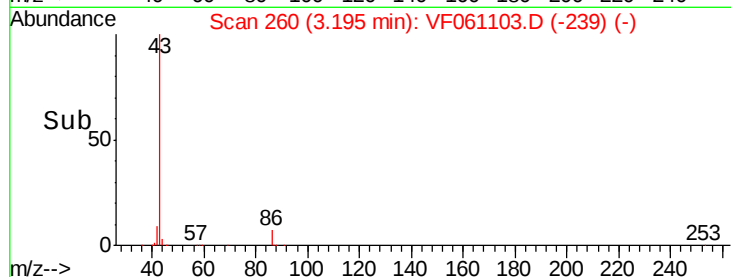
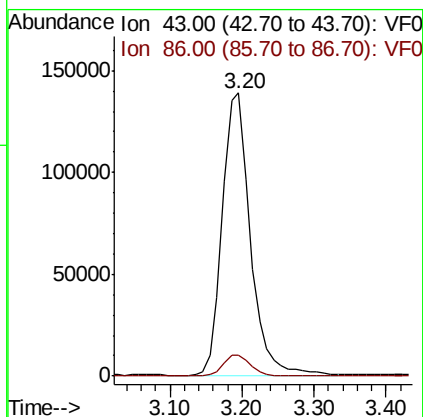
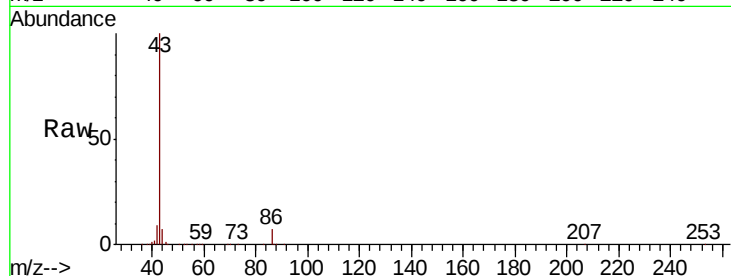
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 375697

Ion Ratio Lower Upper

43 100

86 7.4 6.3 9.5



#24

1,1-Dichloroethane

Concen: 20.917 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

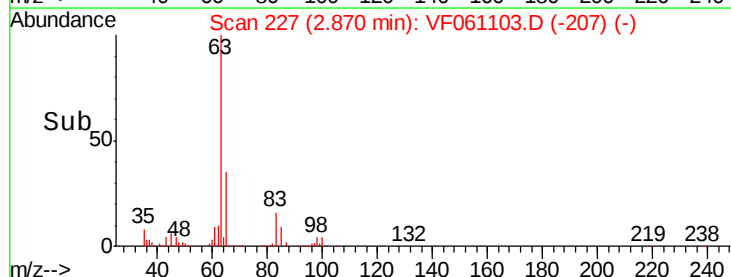
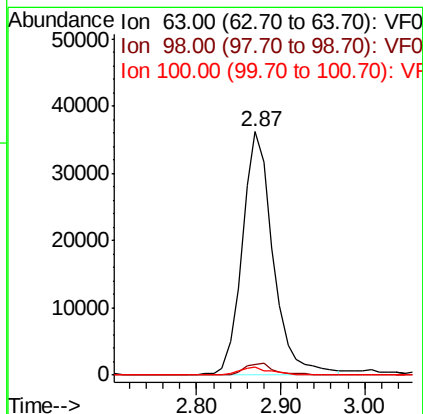
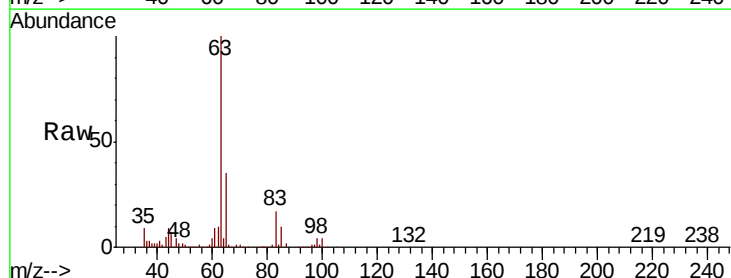
Tgt Ion: 63 Resp: 92969

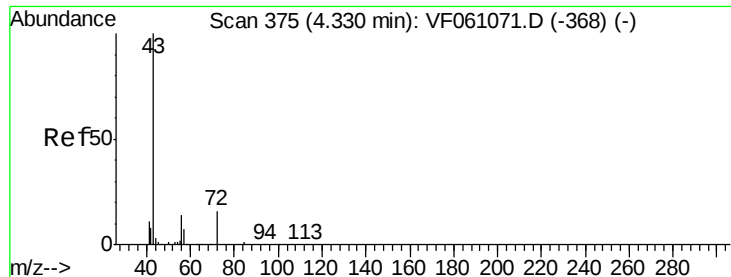
Ion Ratio Lower Upper

63 100

98 4.4 2.1 6.5

100 3.5 1.7 5.1





#25

2-Butanone

Concen: 107.326 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

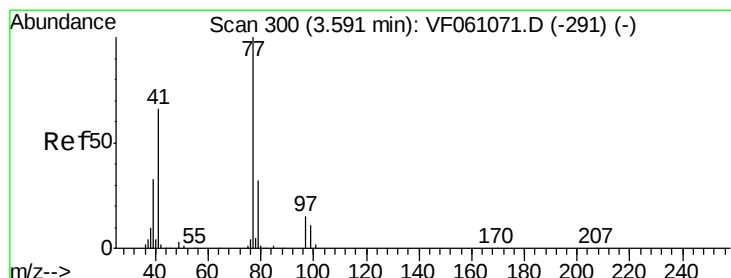
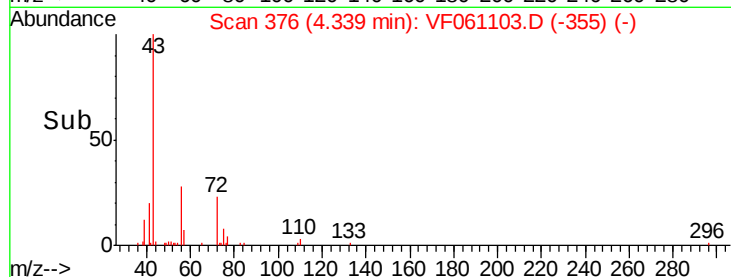
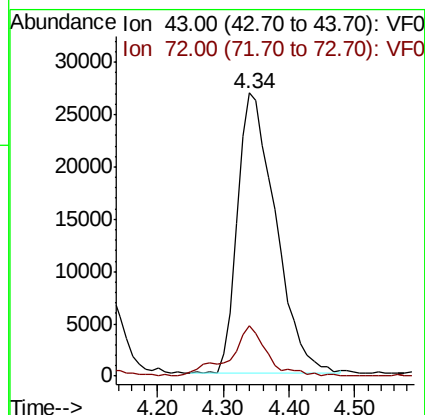
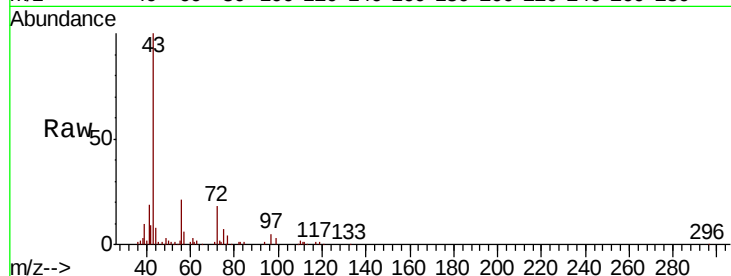
ClientSampleId :

Tot Ion: 43 Resp: 109871

Ion Ratio Lower Upper

43 100

72 17.8 15.6 23.4



#26

2,2-Dichloropropane

Concen: 21.306 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.00 min

Lab File: VF061103.D

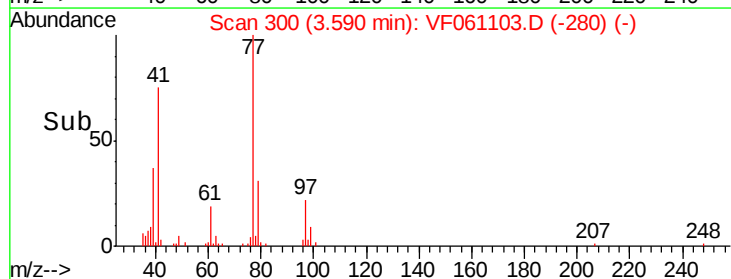
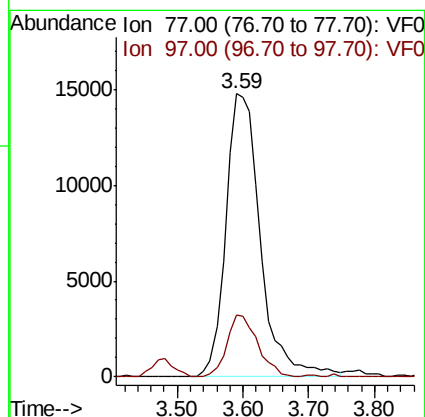
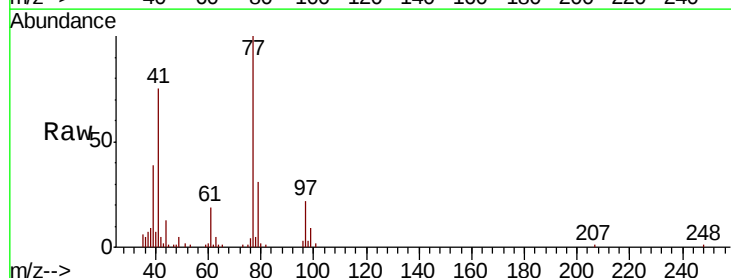
Acq: 20 Dec 2018 12:52

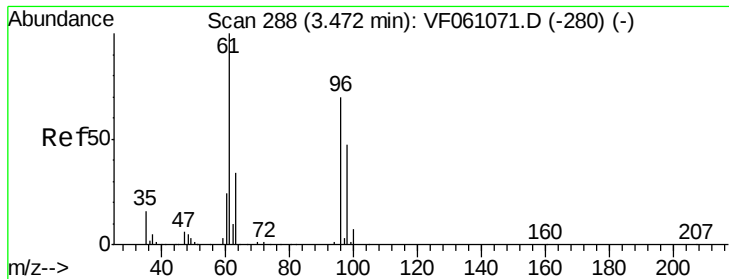
Tgt Ion: 77 Resp: 54344

Ion Ratio Lower Upper

77 100

97 21.8 8.2 24.4



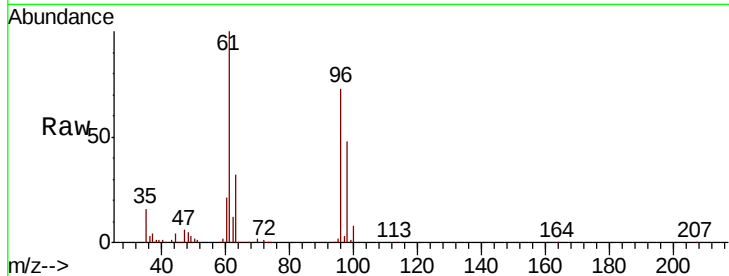


#27

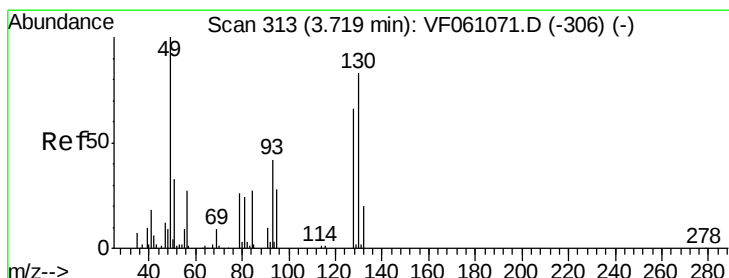
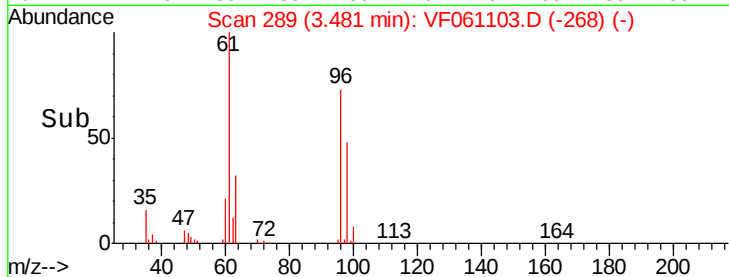
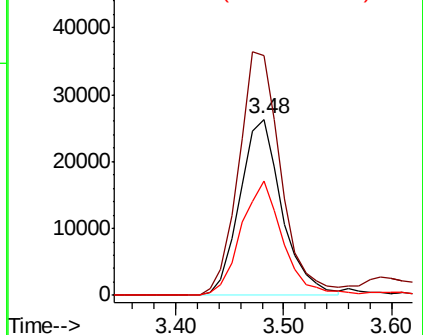
cis-1,2-Dichloroethene
 Concen: 20.202 ug/l
 RT: 3.48 min Scan# 289
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.1	0.0	287.8
98	64.7	0.0	134.2



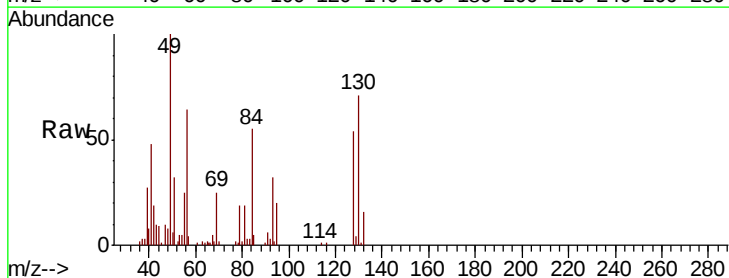
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



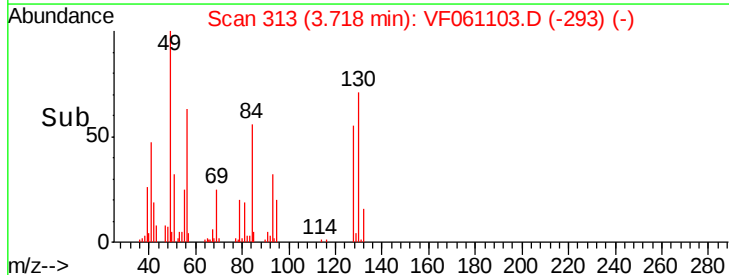
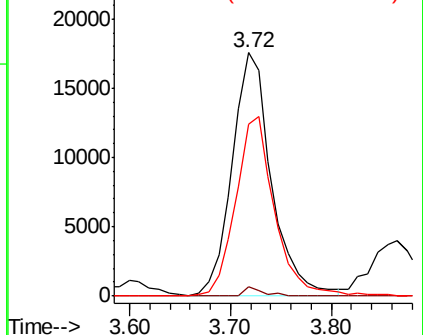
#28

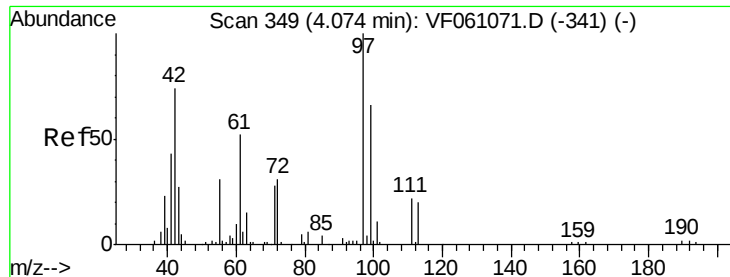
Bromochloromethane
 Concen: 21.244 ug/l
 RT: 3.72 min Scan# 313
 Delta R.T. -0.00 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Tgt Ion	Ratio	Lower	Upper
49	100		
129	3.9	0.0	3.6#
130	70.5	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: 106.170 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

ClientSampleId :

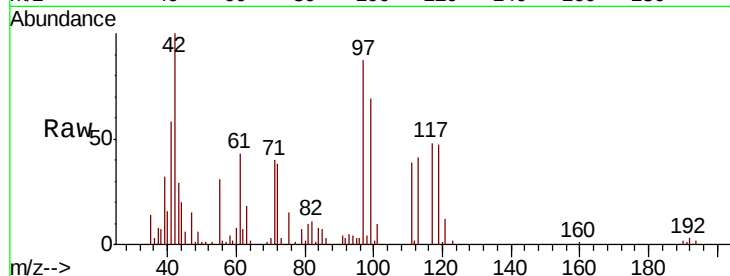
Tot Ion: 42 Resp: 44237

Ion Ratio Lower Upper

42 100

72 35.8 31.8 47.8

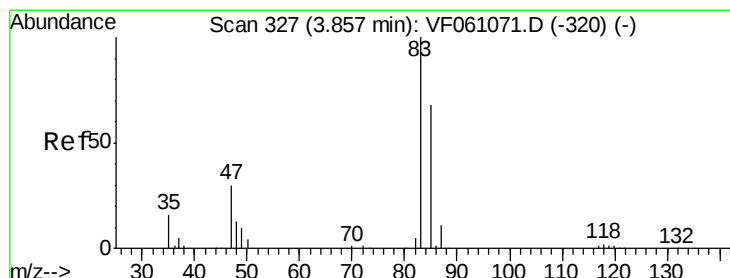
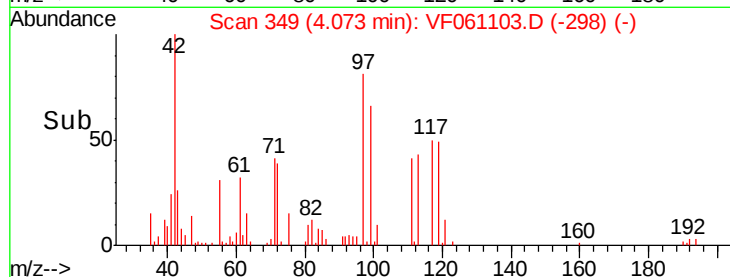
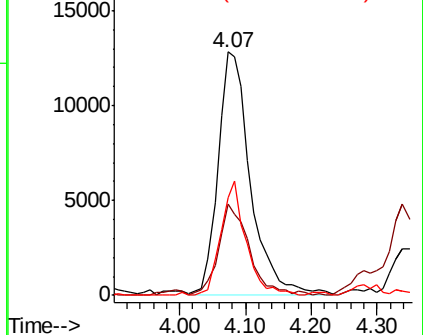
71 36.1 29.7 44.5



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: 19.619 ug/l

RT: 3.87 min Scan# 328

Delta R.T. 0.01 min

Lab File: VF061103.D

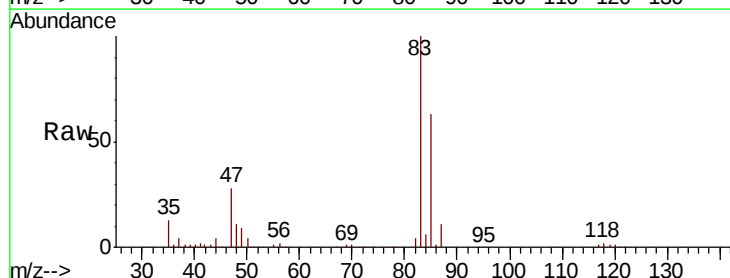
Acq: 20 Dec 2018 12:52

Tgt Ion: 83 Resp: 130749

Ion Ratio Lower Upper

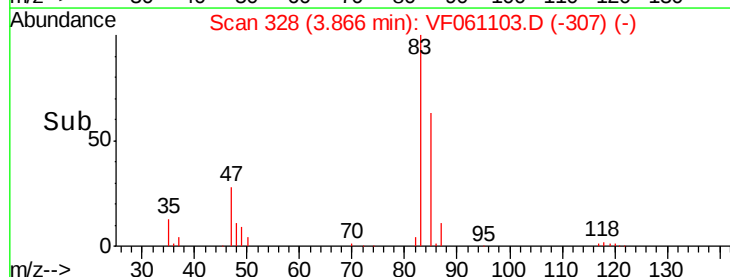
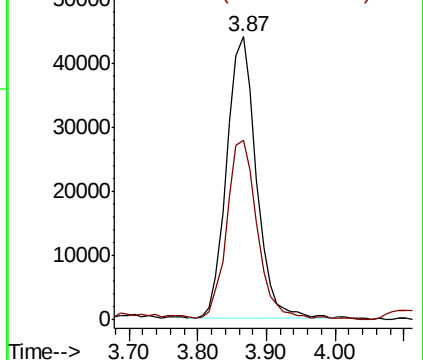
83 100

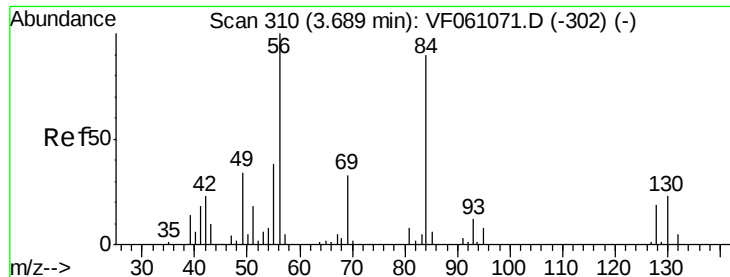
85 63.3 54.5 81.7



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

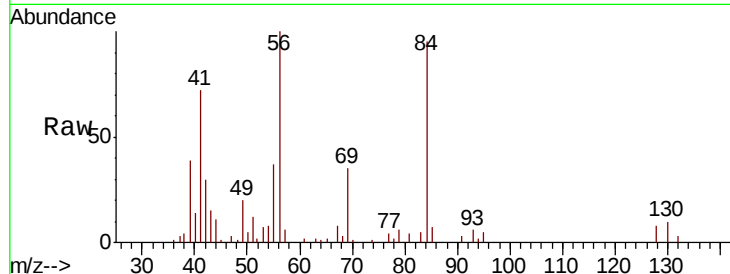




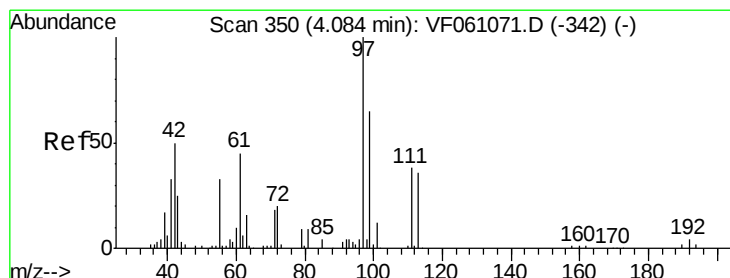
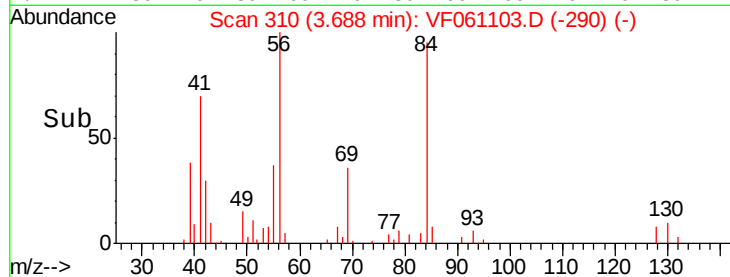
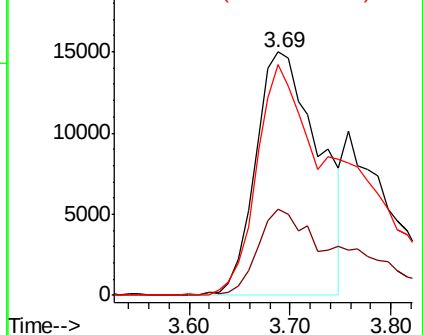
#31
Cyclohexane
Concen: 14.177 ug/l
RT: 3.69 min Scan# 310
Delta R.T. -0.00 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 56 Resp: 65386
Ion Ratio Lower Upper
56 100
69 35.4 26.0 39.0
84 94.6 71.4 107.2

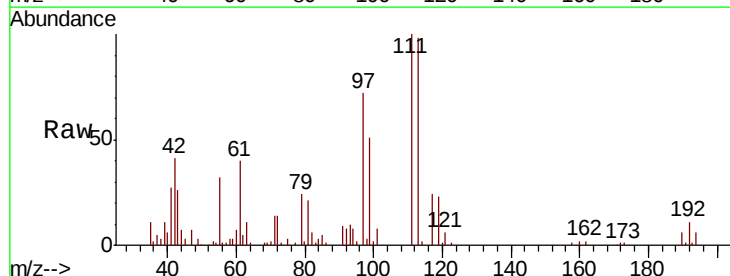


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

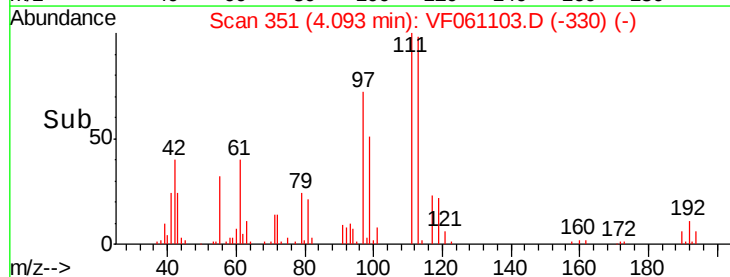
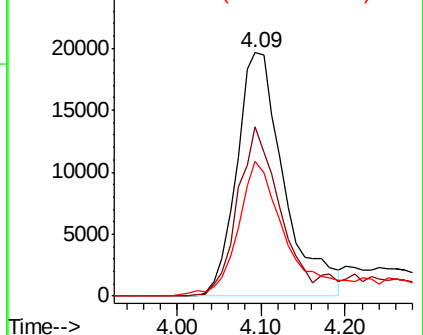


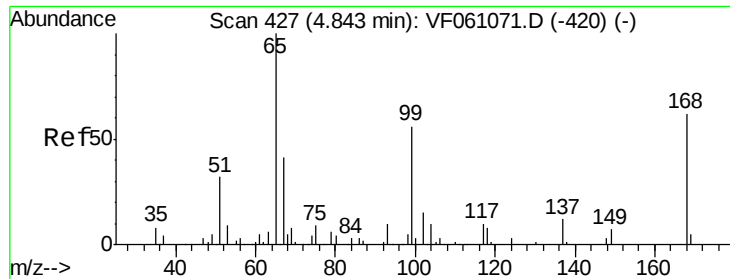
#32
1,1,1-Trichloroethane
Concen: 19.395 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion: 97 Resp: 77476
Ion Ratio Lower Upper
97 100
99 69.8 51.6 77.4
61 55.3 36.2 54.2#



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

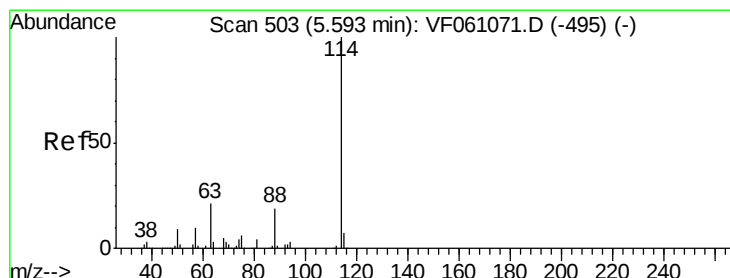
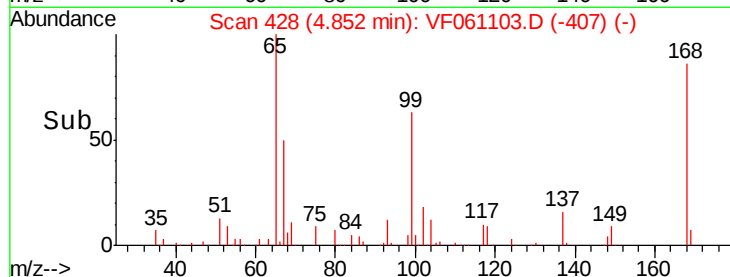
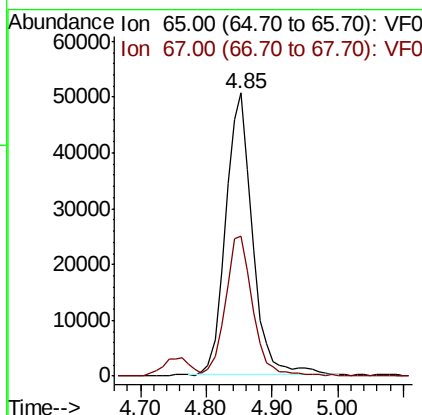
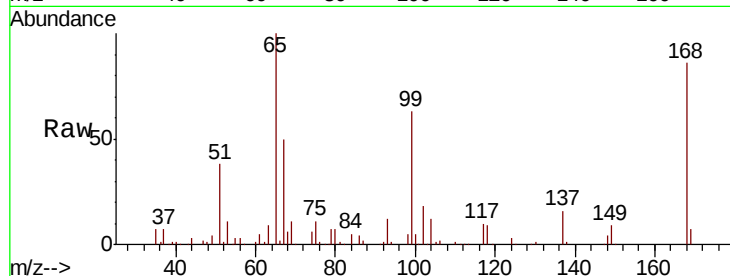




#33
 1,2-Dichloroethane-d4
 Concen: 45.570 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

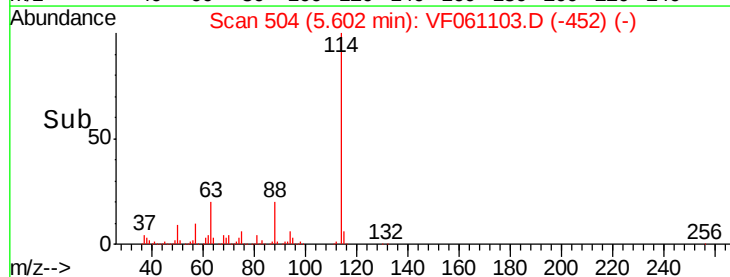
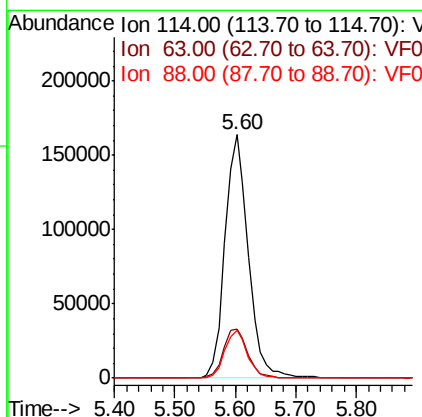
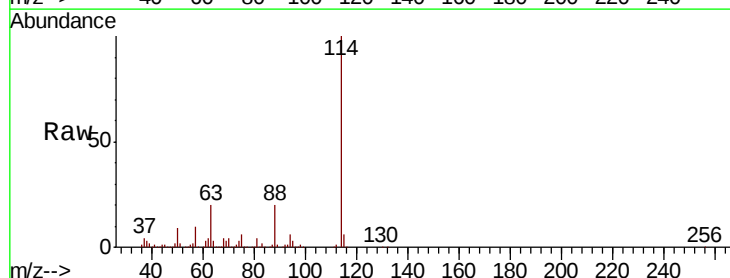
Instrument :
 MSVOA_F
 ClientSampled :

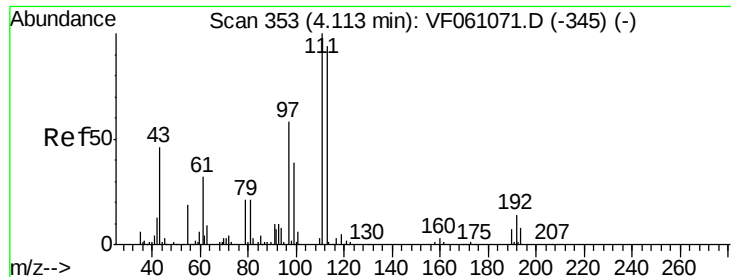
Tot Ion: 65 Resp: 143887
 Ion Ratio Lower Upper
 65 100
 67 49.6 0.0 94.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Tgt Ion: 114 Resp: 438561
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.6
 88 19.6 0.0 38.0





#35

Dibromofluoromethane

Concen: 46.200 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

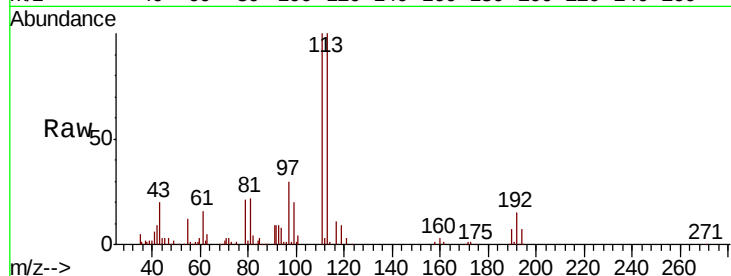
Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 162305

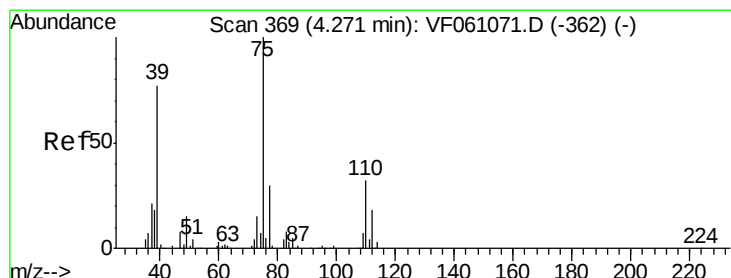
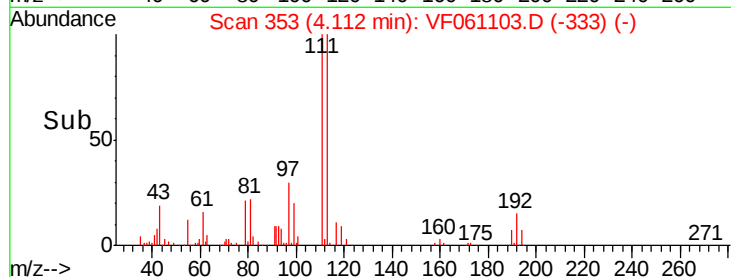
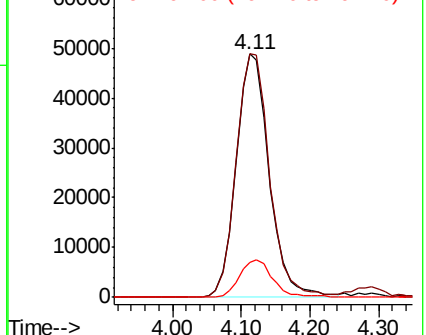
Ion	Ratio	Lower	Upper
113	100		
111	100.1	85.2	127.8
192	14.5	12.8	19.2



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 19.189 ug/l

RT: 4.28 min Scan# 370

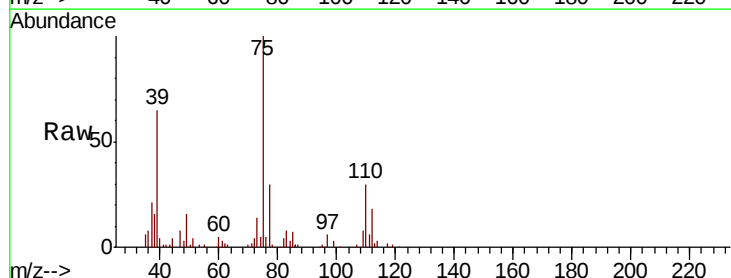
Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Tgt Ion: 75 Resp: 101583

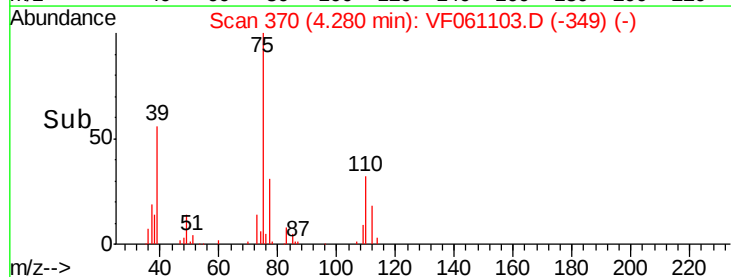
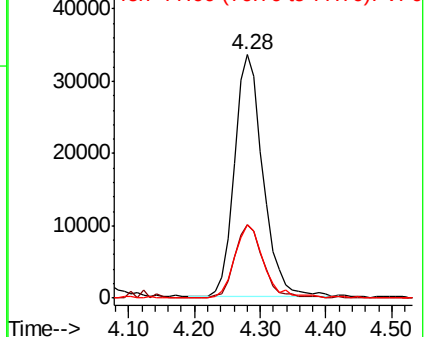
Ion	Ratio	Lower	Upper
75	100		
110	30.4	16.1	48.2
77	30.1	24.5	36.7

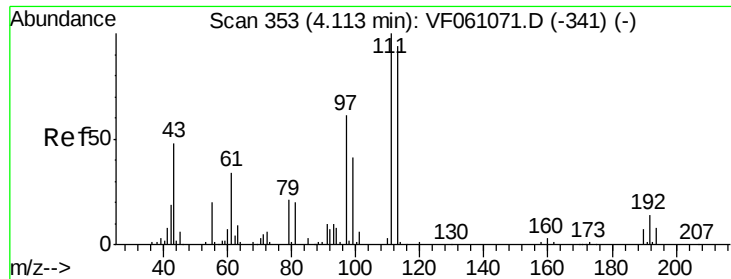


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

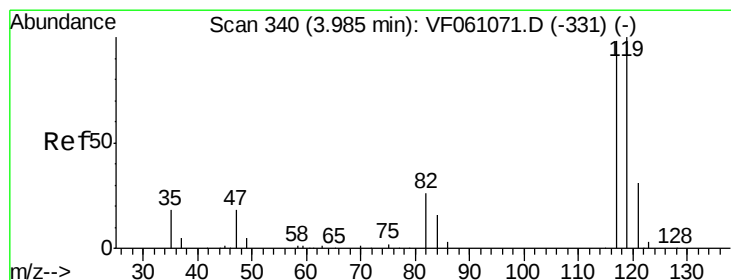
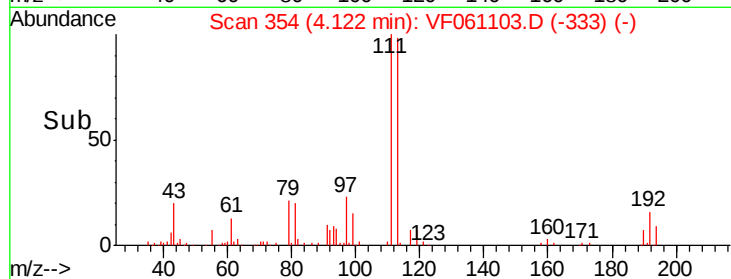
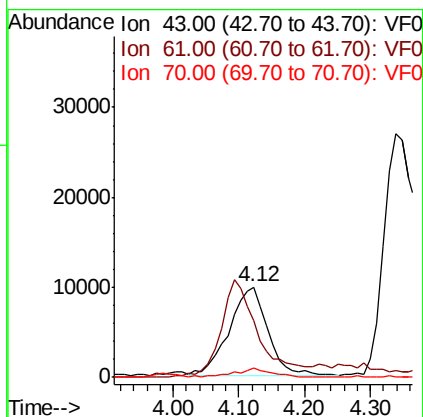
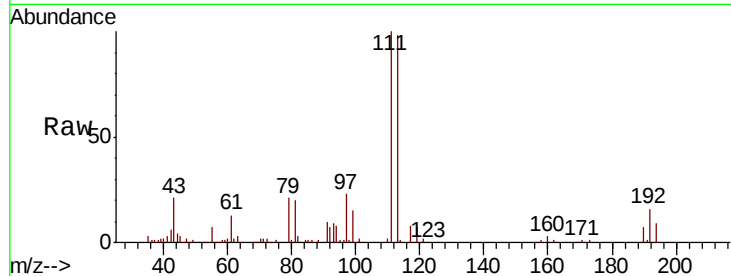




#37
Ethyl Acetate
Concen: 17.363 ug/l
RT: 4.12 min Scan# 354
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

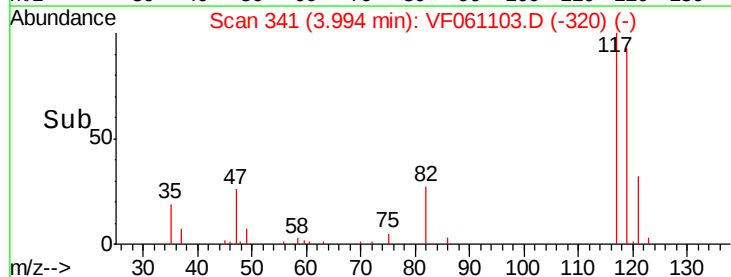
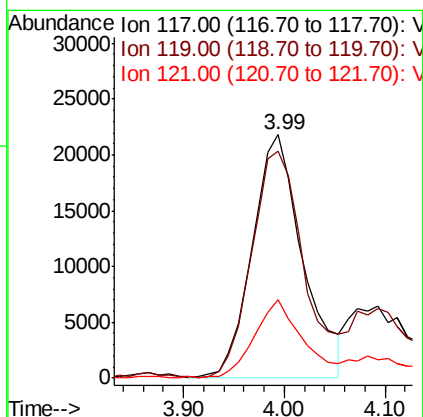
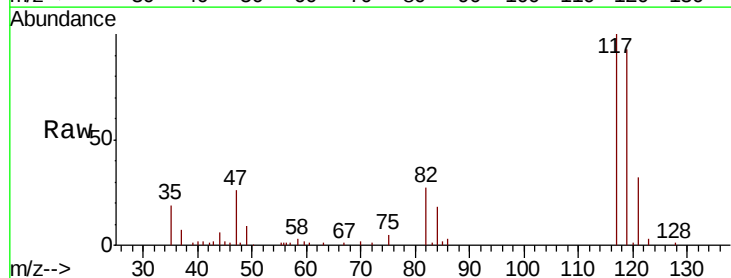
Instrument :
MSVOA_F
ClientSampleId :

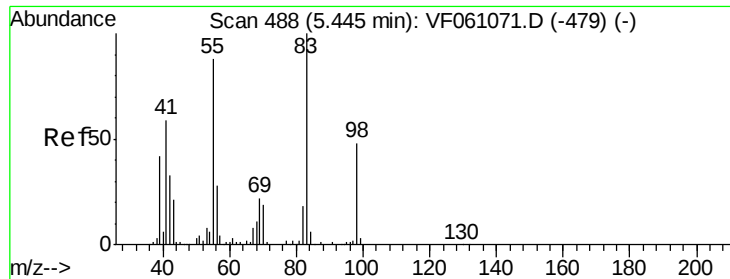
Tot Ion: 43 Resp: 40016
Ion Ratio Lower Upper
43 100
61 62.1 56.6 84.8
70 10.1 6.3 9.5#



#38
Carbon Tetrachloride
Concen: 18.862 ug/l
RT: 3.99 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion: 117 Resp: 76042
Ion Ratio Lower Upper
117 100
119 93.4 82.1 123.1
121 32.5 25.5 38.3

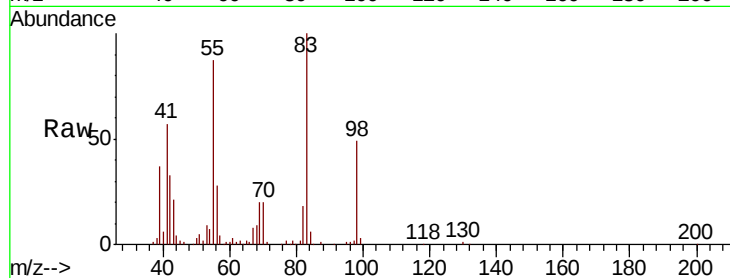




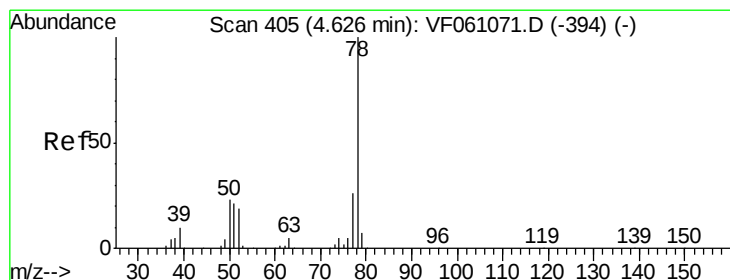
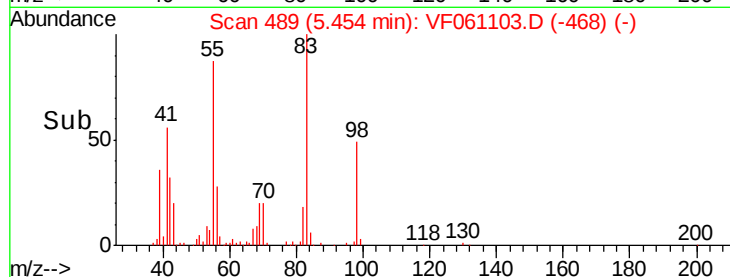
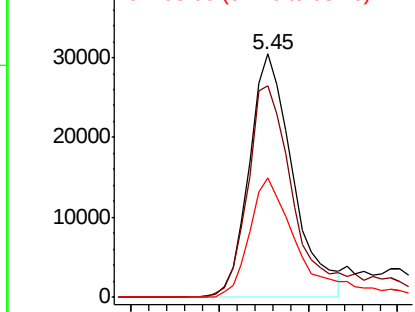
#39
Methvlcvclohexane
Concen: 21.861 ug/l
RT: 5.45 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 83 Resp: 103821
Ion Ratio Lower Upper
83 100
55 86.7 70.6 105.8
98 49.3 38.5 57.7

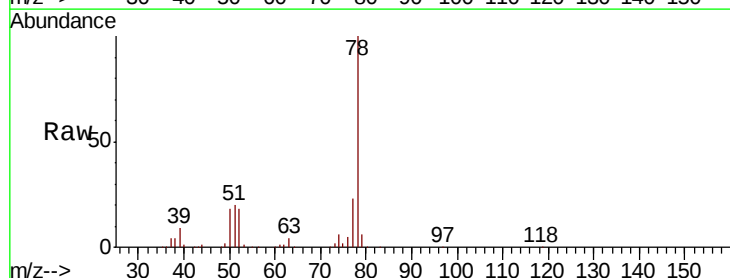


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

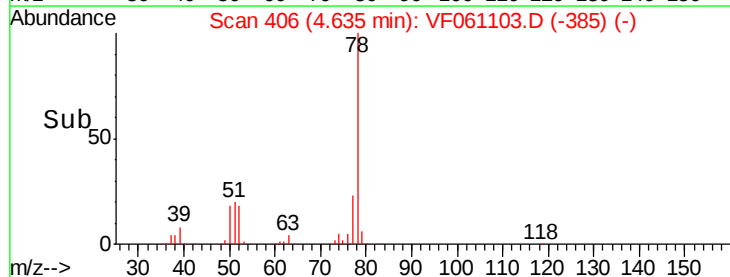
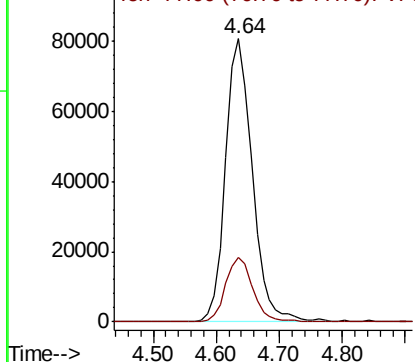


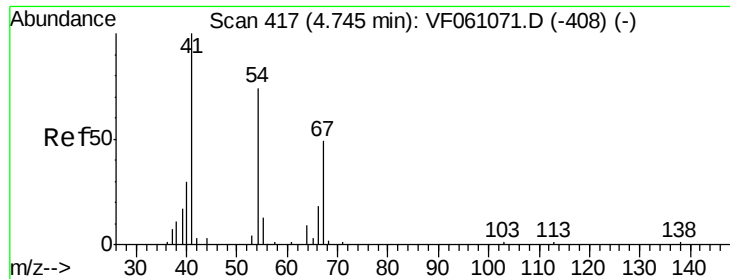
#40
Benzene
Concen: 20.936 ug/l
RT: 4.64 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion: 78 Resp: 238337
Ion Ratio Lower Upper
78 100
77 22.7 20.7 31.1



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0

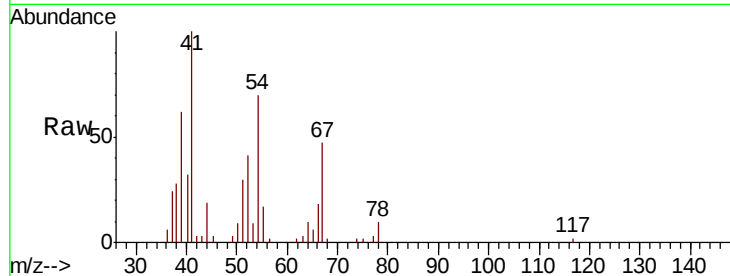




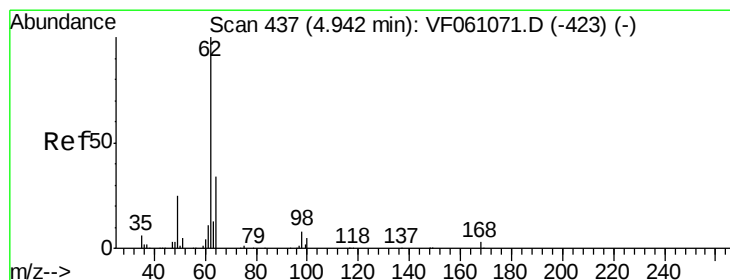
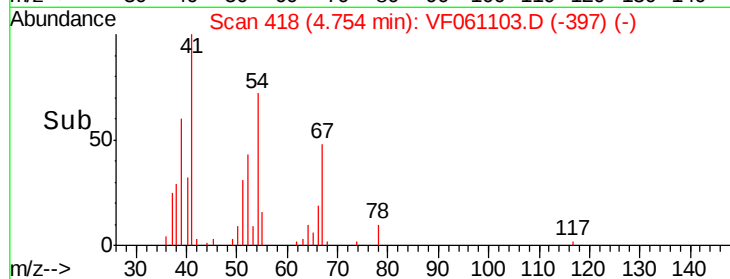
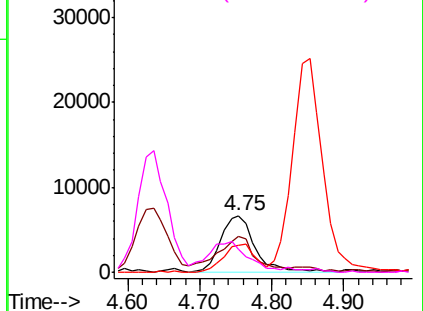
#41
Methacrylonitrile
Concen: 19.871 ug/l
RT: 4.75 min Scan# 418
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	22215
Ion	Ratio	Lower	Upper
41	100		
39	61.9	45.7	68.5
67	46.9	38.9	58.3
52	41.4	35.2	52.8

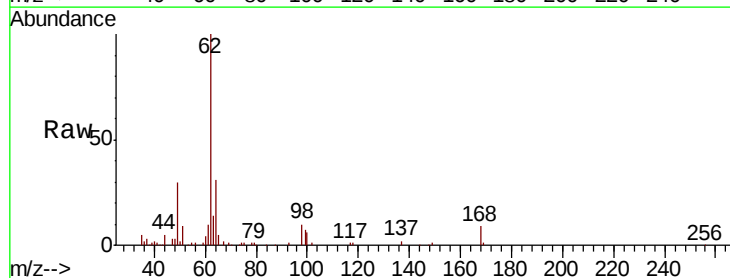


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

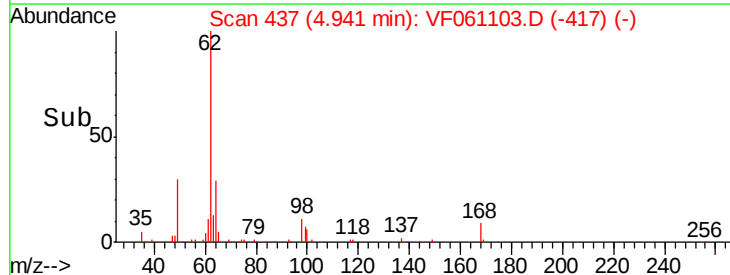
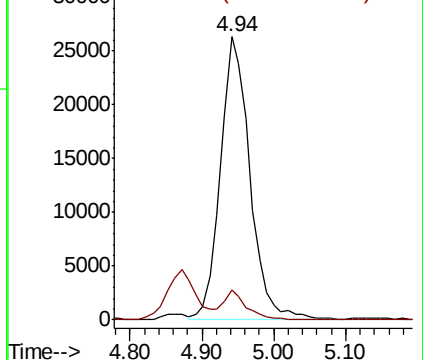


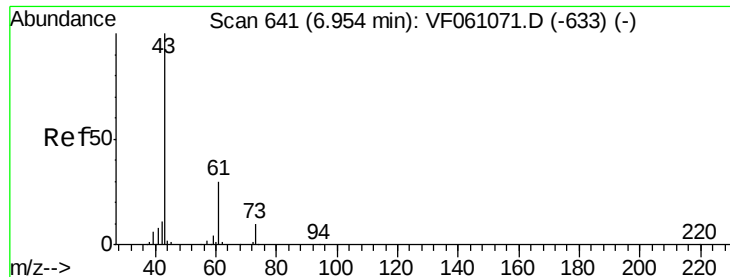
#42
1,2-Dichloroethane
Concen: 17.333 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.00 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion:	62	Resp:	74960
Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	16.6



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



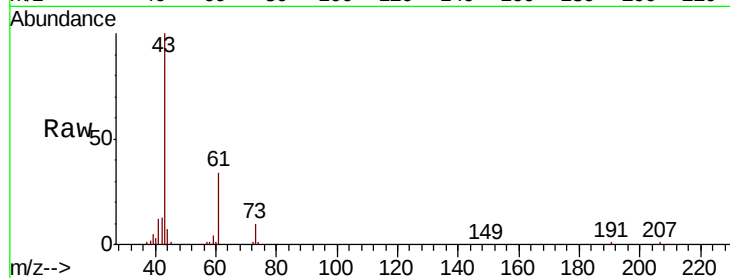


#43

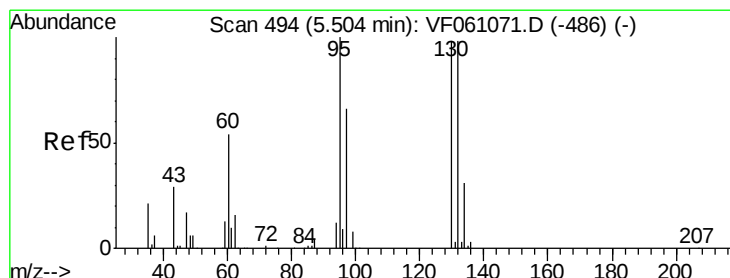
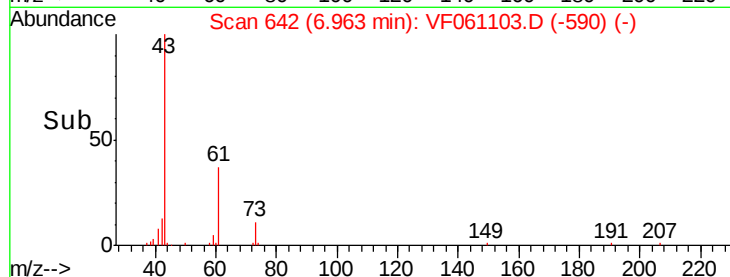
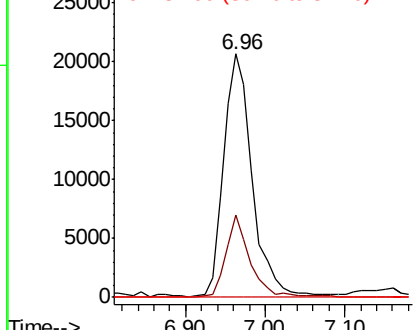
Isopropyl Acetate
 Concen: 20.580 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion: 43 Resp: 52605
 Ion Ratio Lower Upper
 43 100
 61 34.0 23.8 35.8
 87 0.0 0.0 0.0



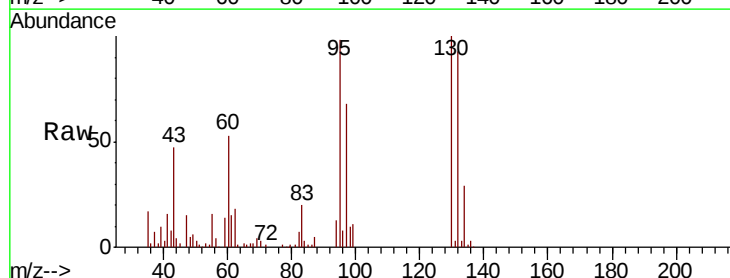
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



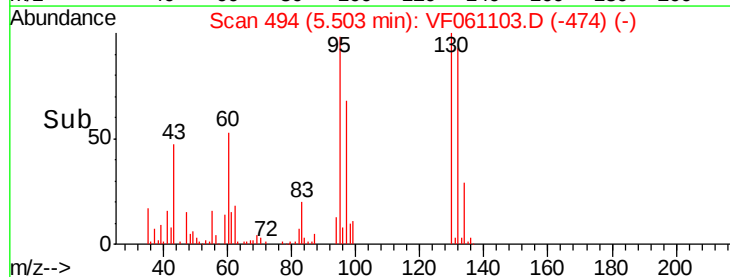
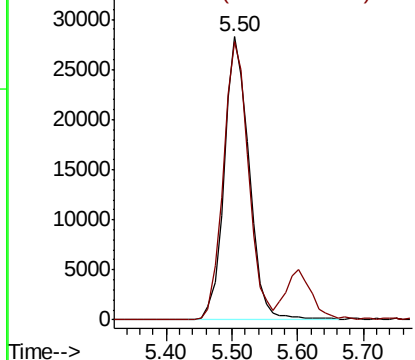
#44

Trichloroethene
 Concen: 20.853 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.00 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Tgt Ion: 130 Resp: 74844
 Ion Ratio Lower Upper
 130 100
 95 98.1 0.0 205.2



Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VF0

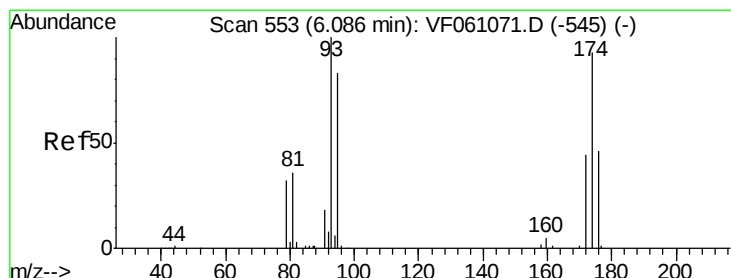
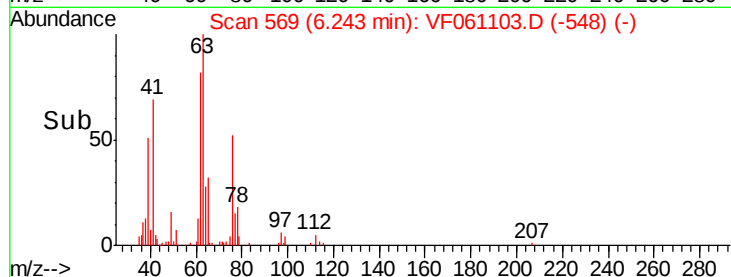
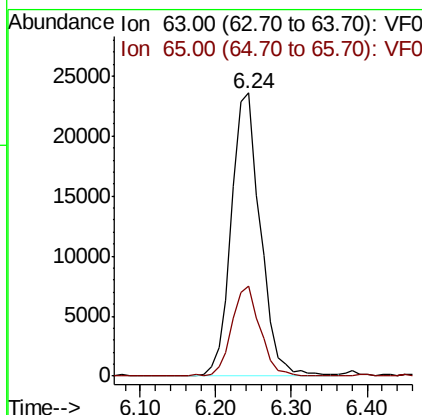
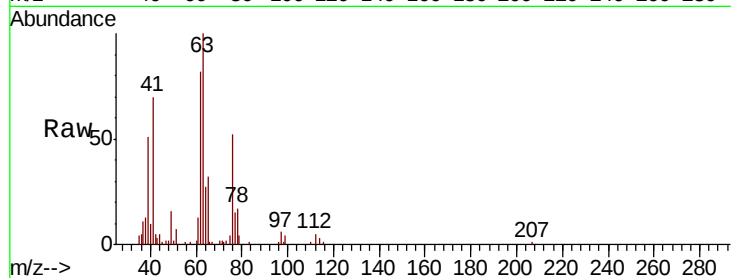




#45
 1,2-Dichloropropane
 Concen: 20.209 ug/l
 RT: 6.24 min Scan# 569
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

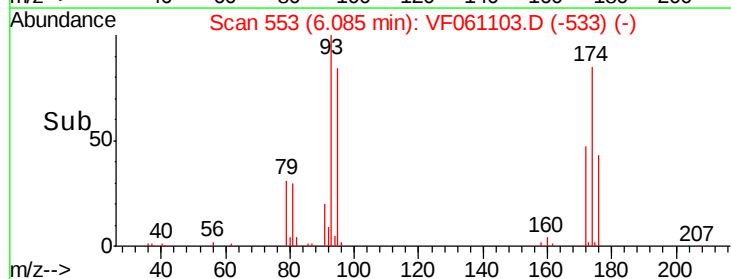
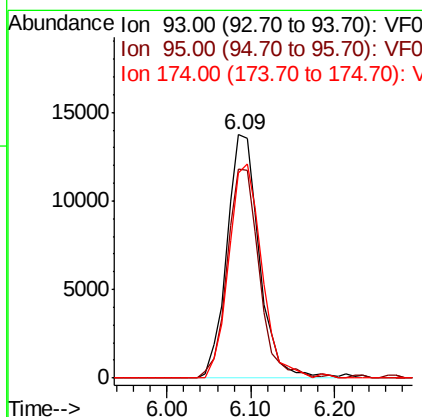
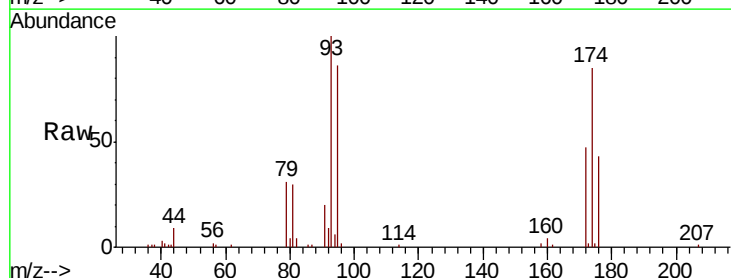
Instrument :
 MSVOA_F
 ClientSampled :

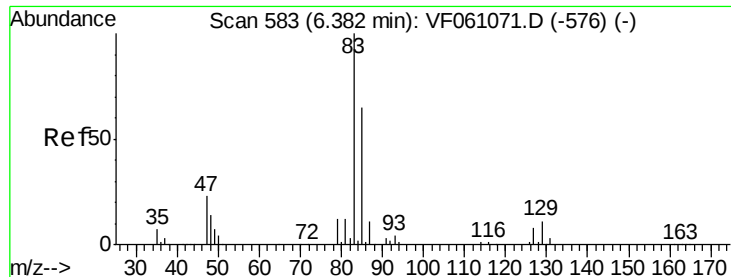
Tot Ion: 63 Resp: 62593
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.4 36.6



#46
 Dibromomethane
 Concen: 18.321 ug/l
 RT: 6.09 min Scan# 553
 Delta R.T. -0.00 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Tgt Ion: 93 Resp: 36804
 Ion Ratio Lower Upper
 93 100
 95 86.0 66.9 100.3
 174 84.5 74.1 111.1





#47

Bromodichloromethane

Concen: 17.995 ug/l

RT: 6.39 min Scan# 584

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

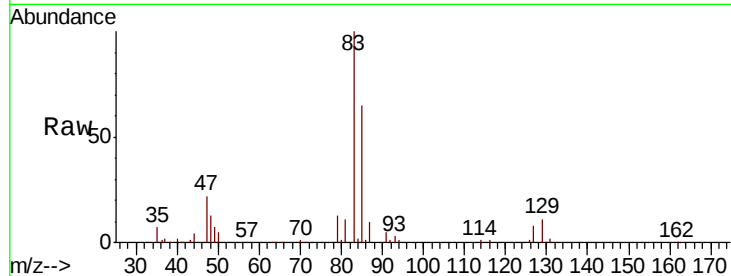
Tot Ion: 83 Resp: 93927

Ion Ratio Lower Upper

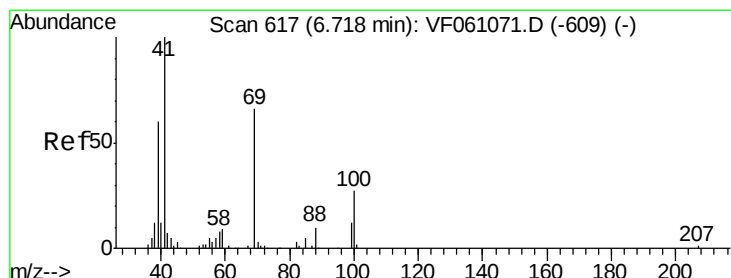
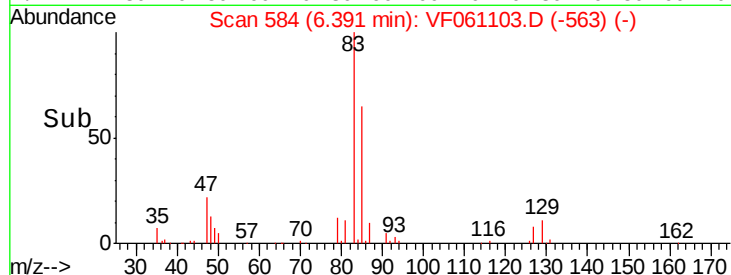
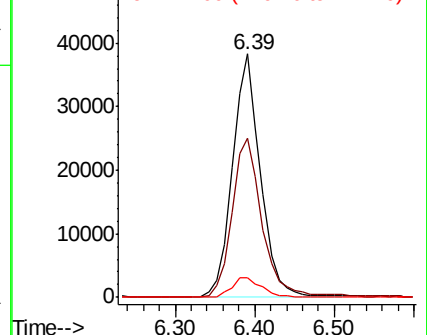
83 100

85 65.3 52.2 78.4

127 8.3 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: 18.078 ug/l

RT: 6.73 min Scan# 618

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

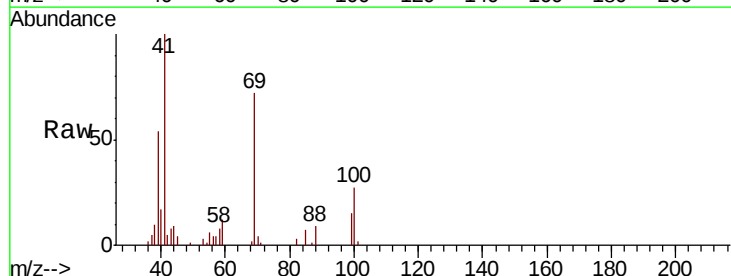
Tgt Ion: 41 Resp: 32259

Ion Ratio Lower Upper

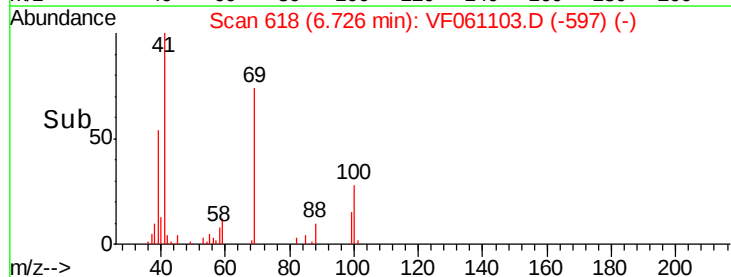
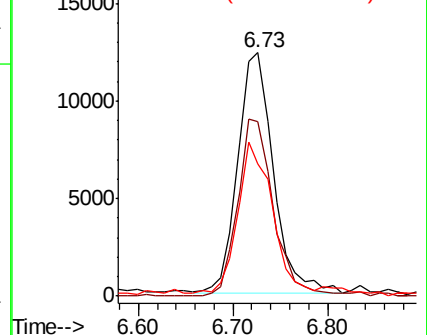
41 100

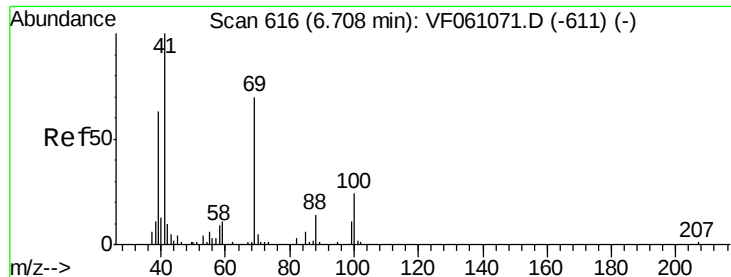
69 71.7 52.7 79.1

39 54.5 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: 344.000 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

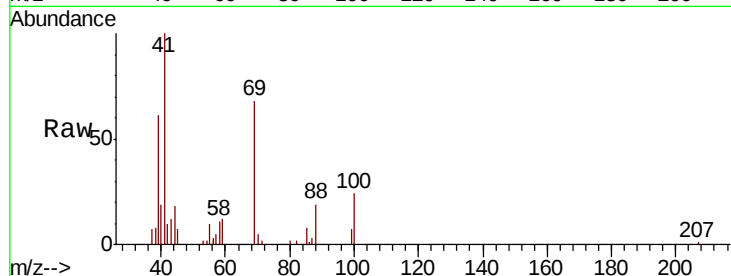
Tot Ion: 88 Resp: 4454

Ion Ratio Lower Upper

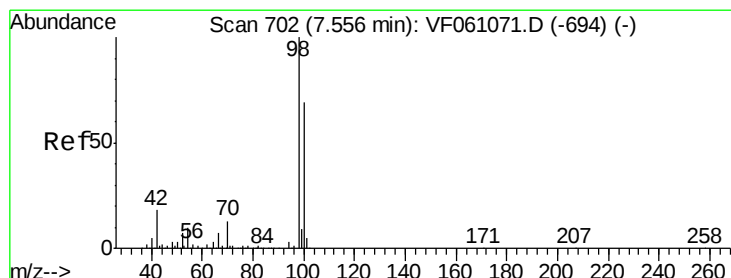
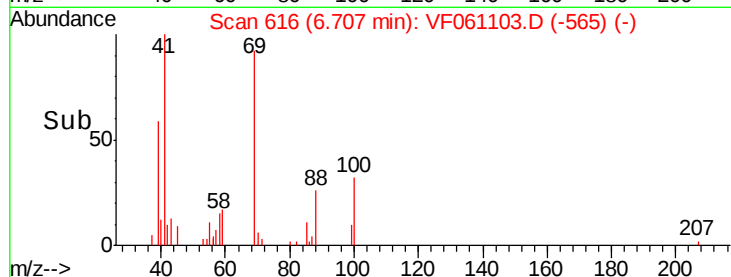
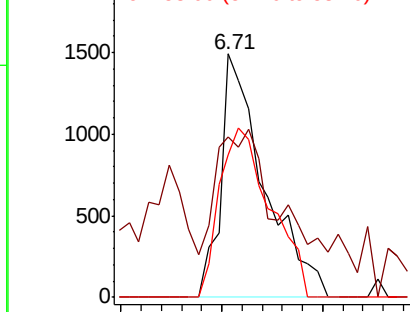
88 100

43 65.8 33.3 49.9#

58 58.6 53.2 79.8



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



#50

Toluene-d8

Concen: 47.272 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.00 min

Lab File: VF061103.D

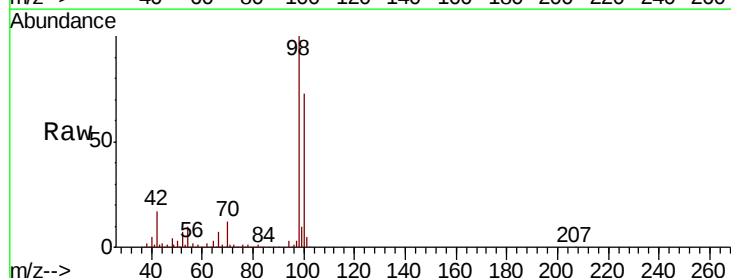
Acq: 20 Dec 2018 12:52

Tgt Ion: 98 Resp: 470625

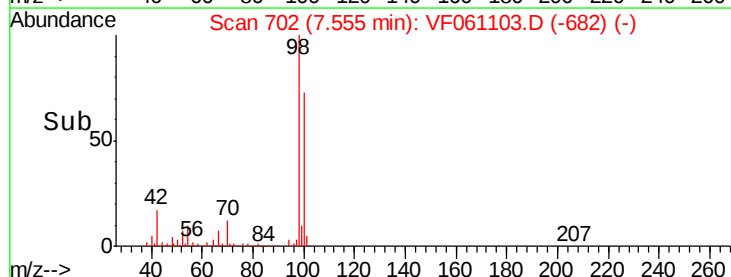
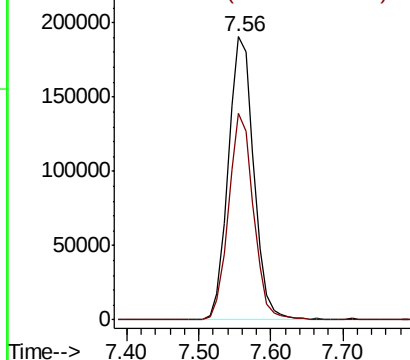
Ion Ratio Lower Upper

98 100

100 72.9 55.3 82.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 94.477 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

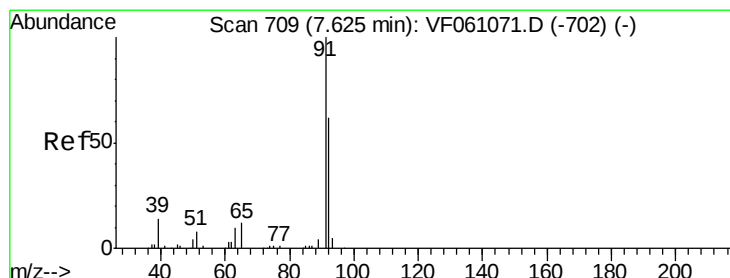
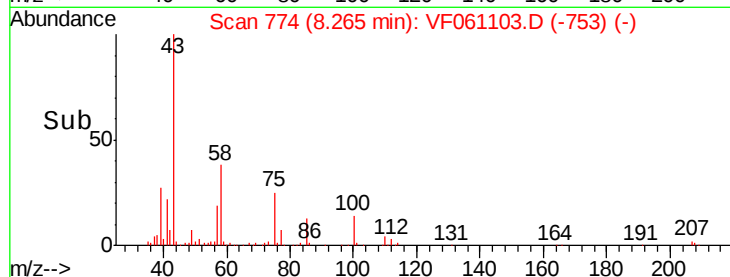
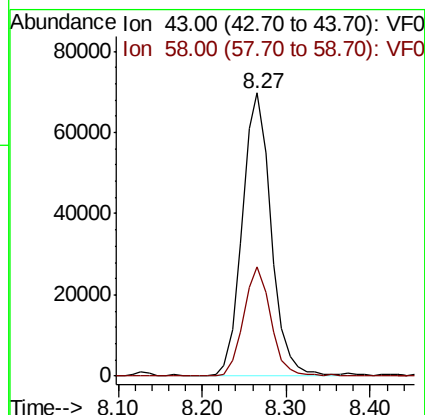
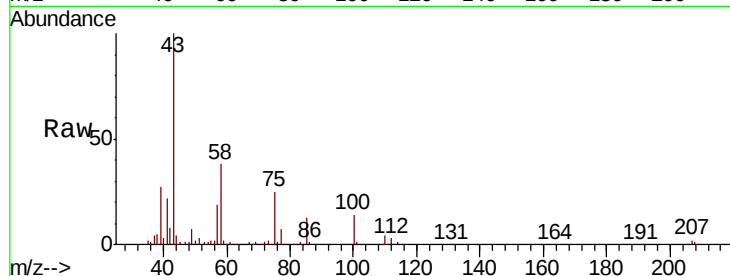
ClientSampleId :

Tot Ion: 43 Resp: 165619

Ion Ratio Lower Upper

43 100

58 38.5 29.1 43.7



#52

Toluene

Concen: 20.098 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.00 min

Lab File: VF061103.D

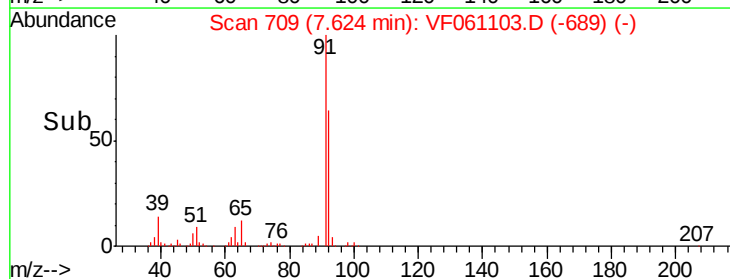
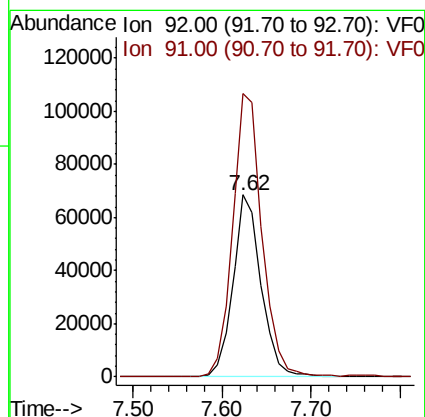
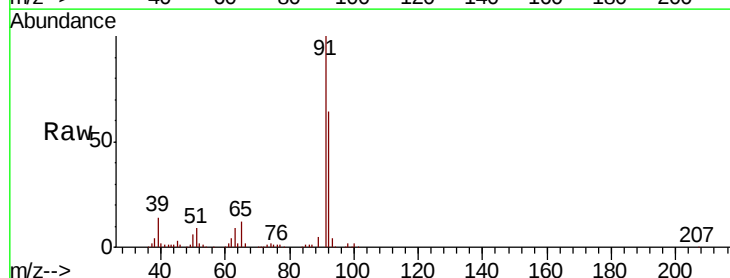
Acq: 20 Dec 2018 12:52

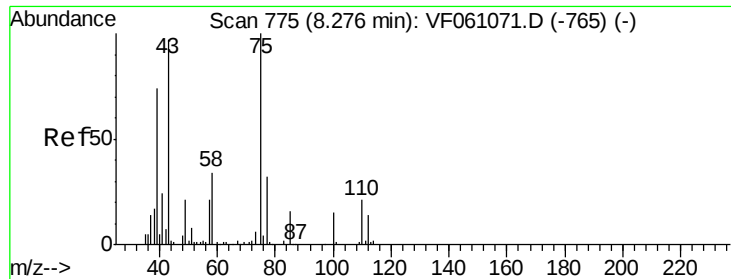
Tgt Ion: 92 Resp: 151455

Ion Ratio Lower Upper

92 100

91 155.6 128.8 193.2





#53

t-1,3-Dichloropropene

Concen: 18.507 ug/l

RT: 8.29 min Scan# 776

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

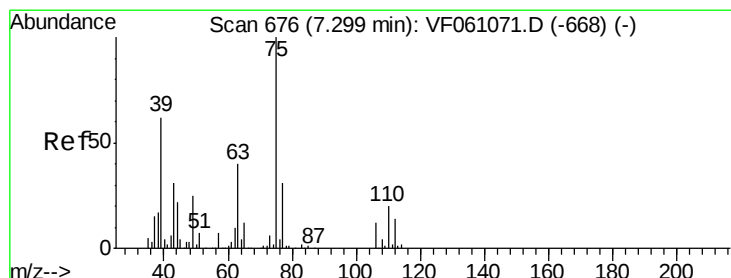
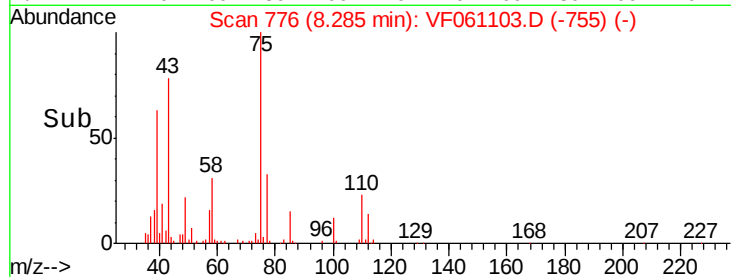
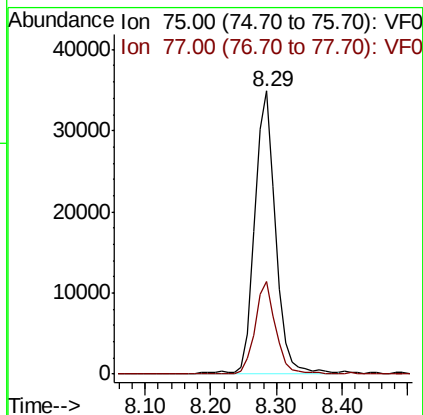
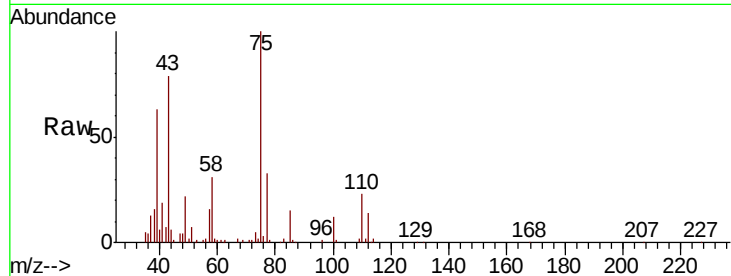
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 77926

Ion Ratio Lower Upper

75 100

77 32.5 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 19.168 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

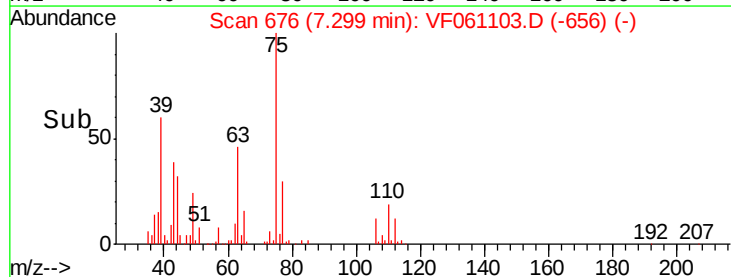
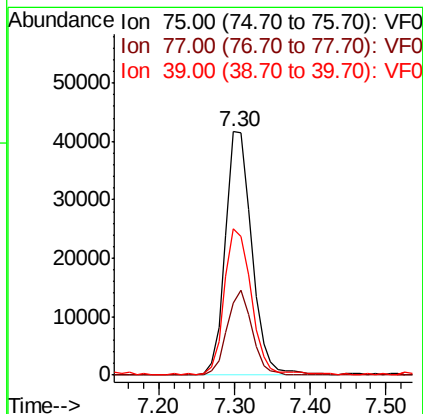
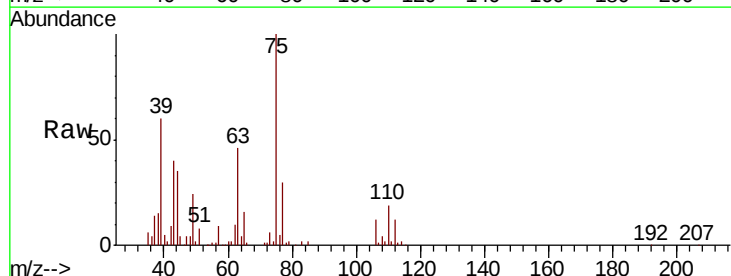
Tgt Ion: 75 Resp: 101294

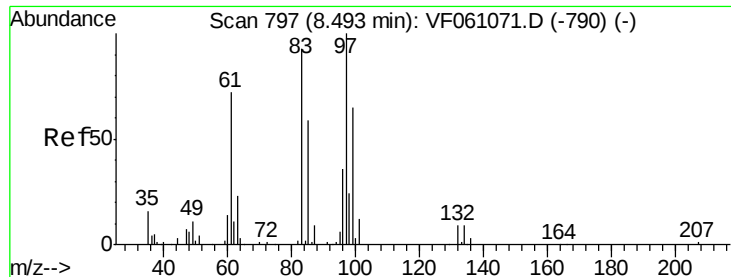
Ion Ratio Lower Upper

75 100

77 29.8 25.0 37.4

39 60.0 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 18.953 ug/l

RT: 8.49 min Scan# 797

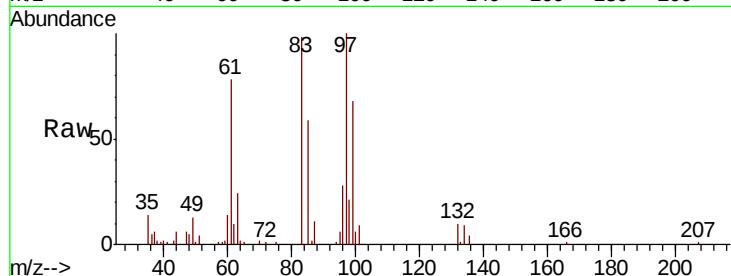
Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:	97	Resp:	42817
Ion	Ratio	Lower	Upper
97	100		
83	98.5	75.0	112.4
85	59.2	47.5	71.3
99	68.3	51.9	77.9

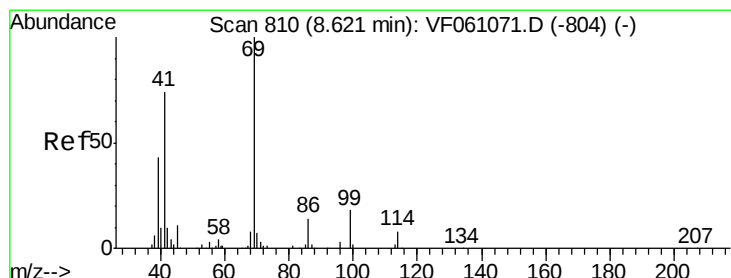
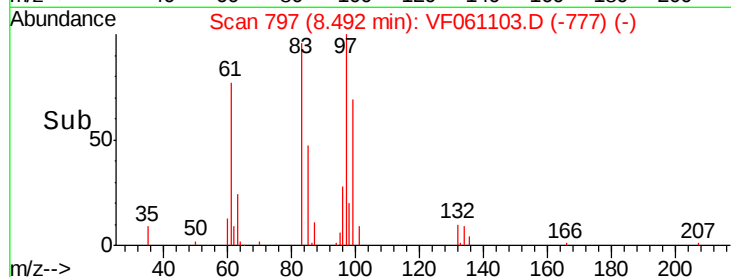
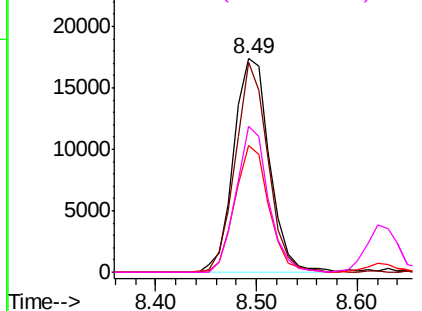


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 17.950 ug/l

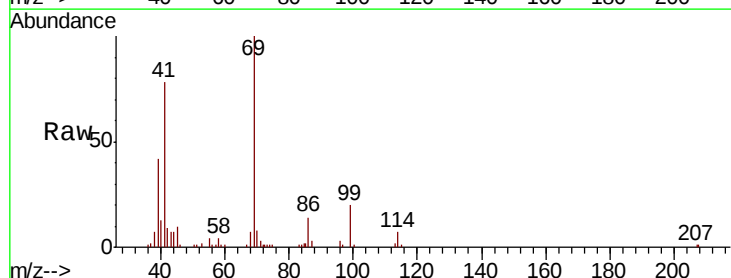
RT: 8.62 min Scan# 810

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

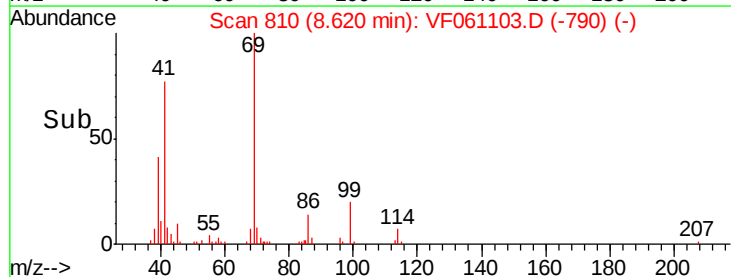
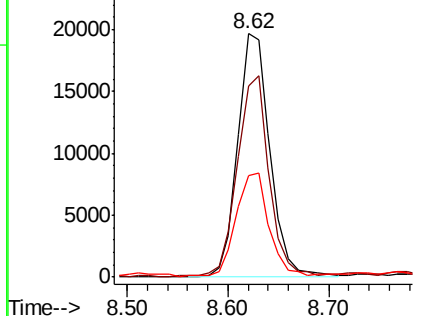
Tgt Ion:	69	Resp:	43880
Ion	Ratio	Lower	Upper
69	100		
41	78.4	59.7	89.5
39	41.9	35.0	52.6

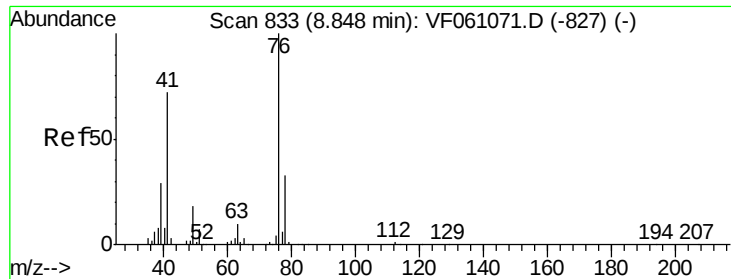


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

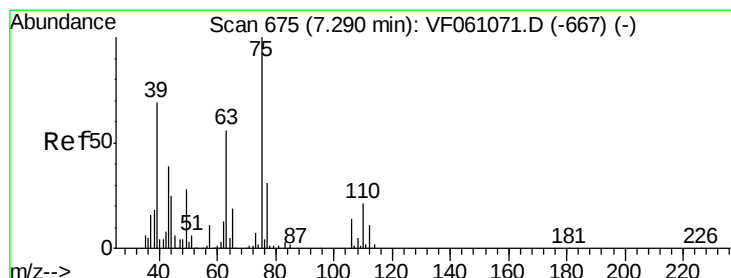
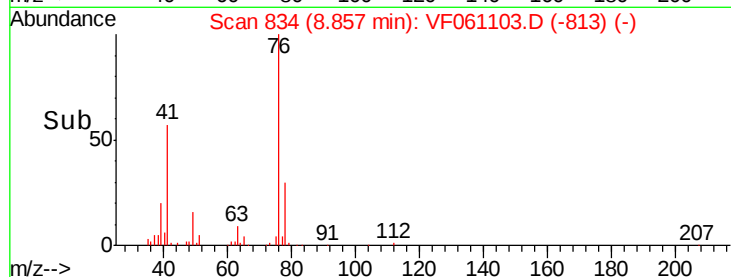
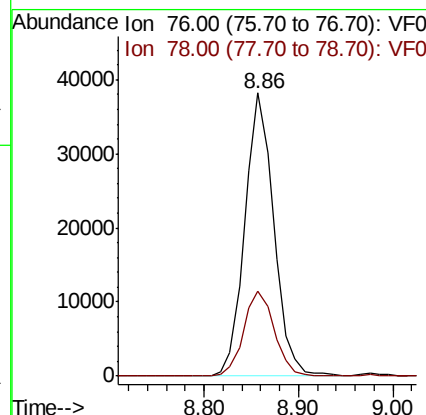
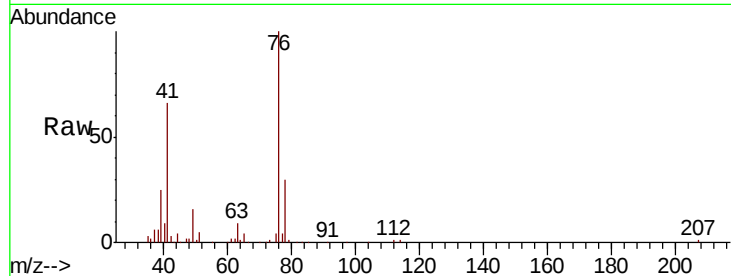




#57
 1,3-Dichloropropane
 Concen: 19.831 ug/l
 RT: 8.86 min Scan# 834
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

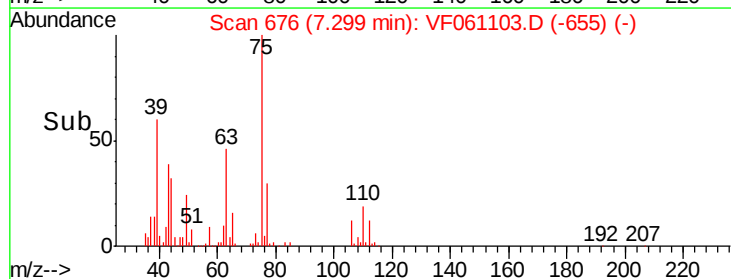
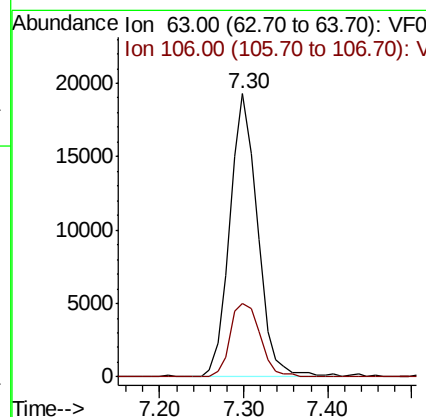
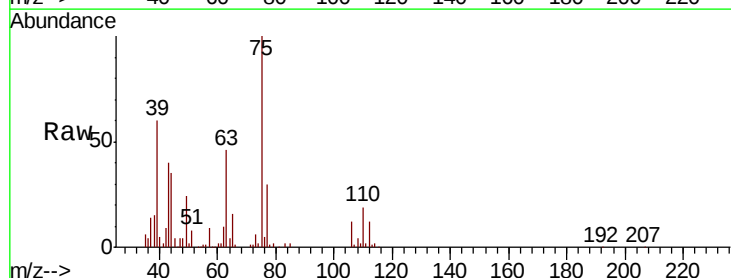
Instrument :
 MSVOA_F
 ClientSampleId :

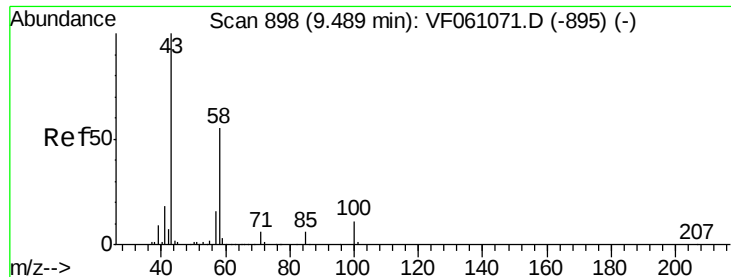
Tot Ion: 76 Resp: 81028
 Ion Ratio Lower Upper
 76 100
 78 30.2 26.5 39.7



#58
 2-Chloroethyl Vinyl ether
 Concen: 94.403 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Tgt Ion: 63 Resp: 44321
 Ion Ratio Lower Upper
 63 100
 106 25.9 19.8 29.8

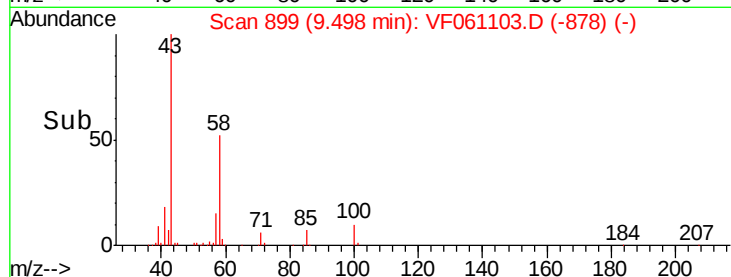
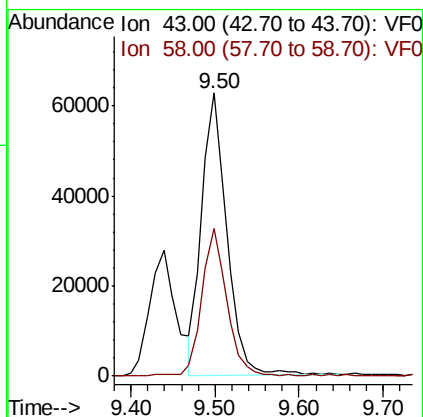
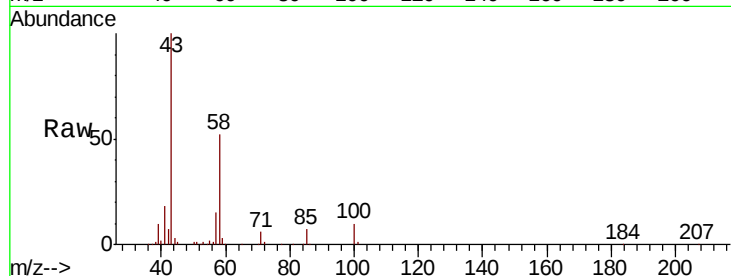




#59
2-Hexanone
Concen: 102.064 ug/l
RT: 9.50 min Scan# 899
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

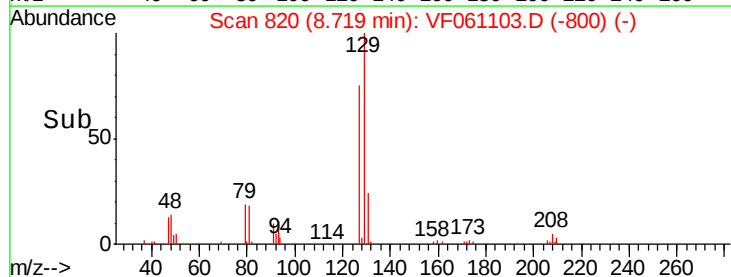
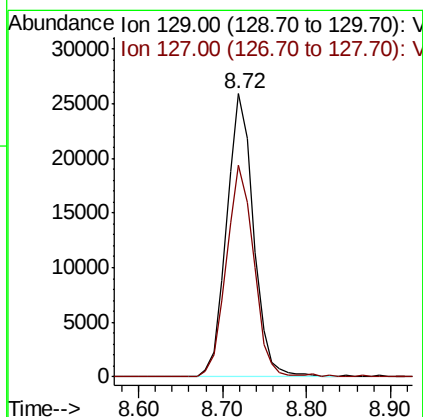
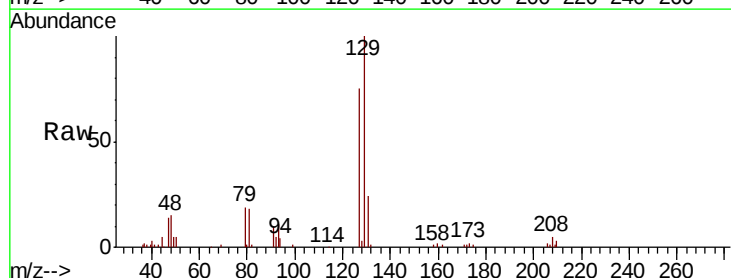
Instrument :
MSVOA_F
ClientSampleId :

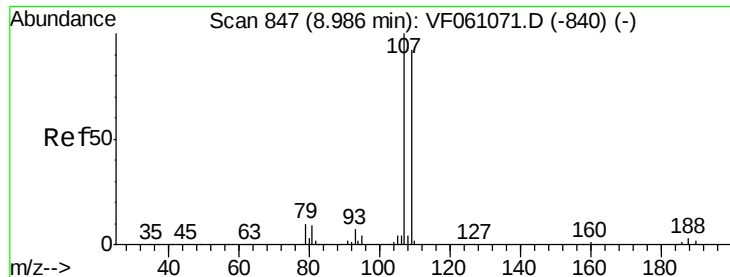
Tot Ion: 43 Resp: 129391
Ion Ratio Lower Upper
43 100
58 52.1 25.1 75.2



#60
Dibromochloromethane
Concen: 17.790 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.00 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion:129 Resp: 57610
Ion Ratio Lower Upper
129 100
127 74.7 36.8 110.3





#61

1,2-Dibromoethane

Concen: 19.405 ug/l

RT: 8.99 min Scan# 847

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

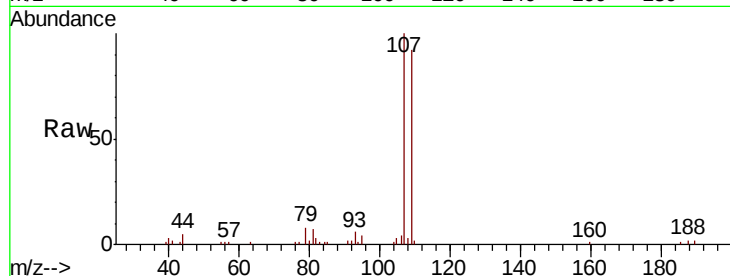
ClientSampleId :

Tot Ion:107 Resp: 46819

Ion Ratio Lower Upper

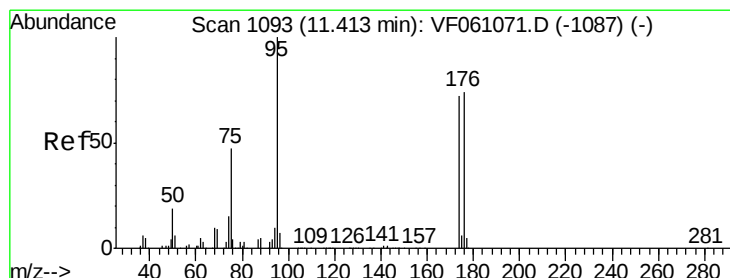
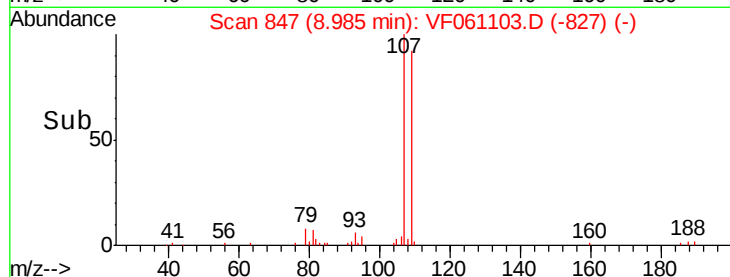
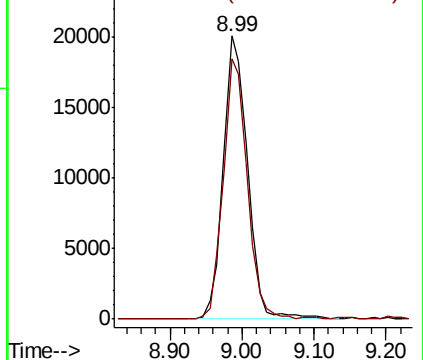
107 100

109 92.1 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: 45.471 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

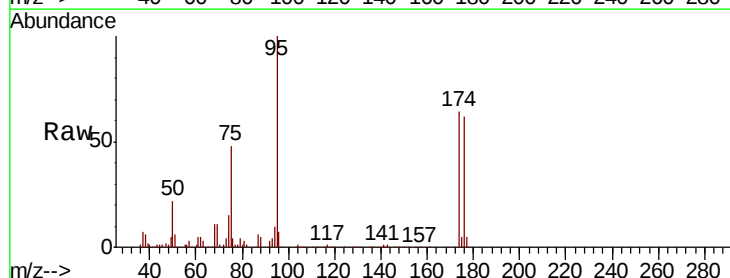
Tgt Ion: 95 Resp: 208701

Ion Ratio Lower Upper

95 100

174 64.3 0.0 143.8

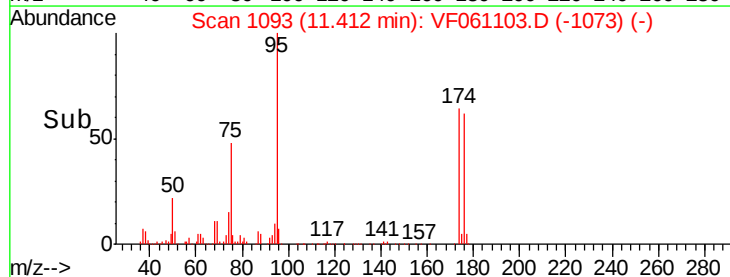
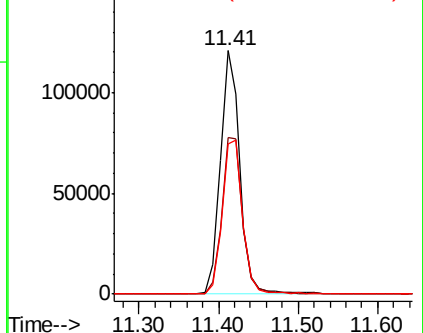
176 61.5 0.0 147.6

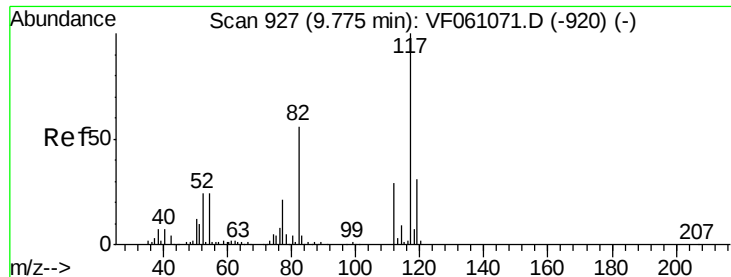


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

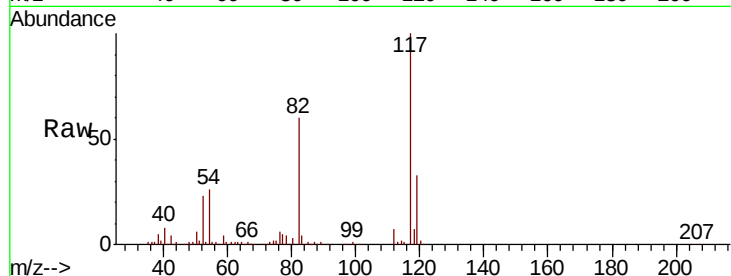




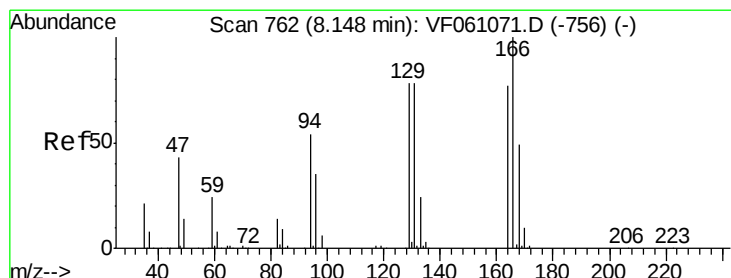
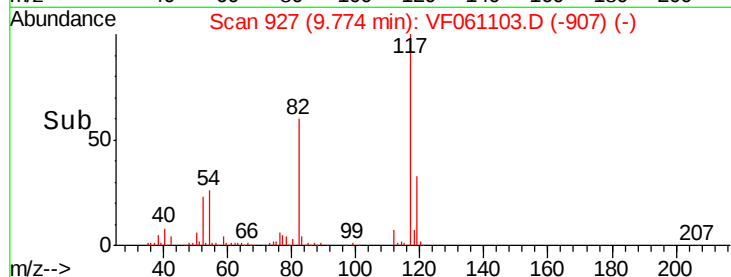
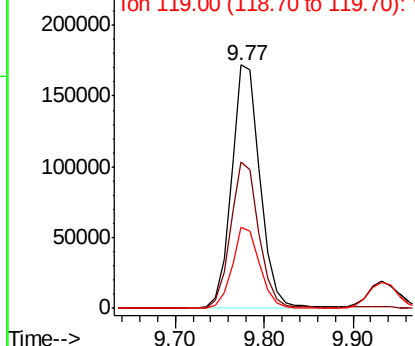
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.2	45.0	67.4
119	33.2	24.8	37.2

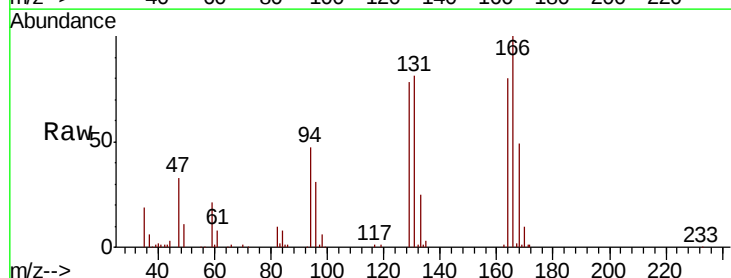


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

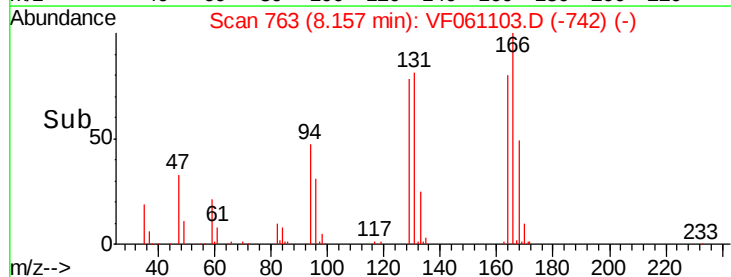
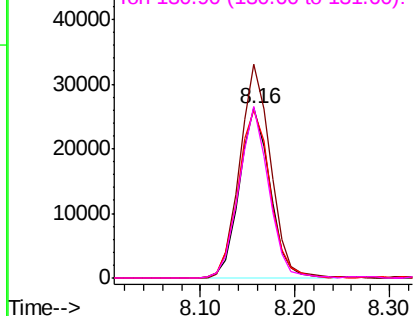


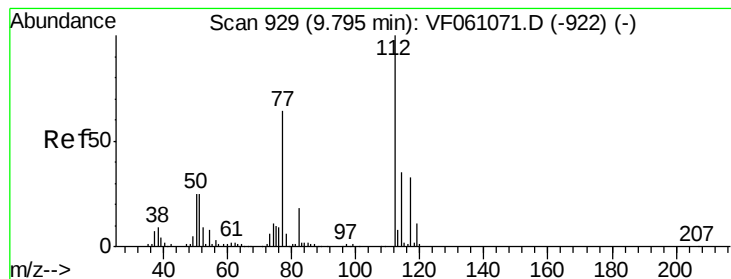
#64
Tetrachloroethene
Concen: 19.957 ug/l
RT: 8.16 min Scan# 763
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.5	104.0	156.0
129	98.2	81.1	121.7
131	101.0	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: 20.123 ug/l

RT: 9.80 min Scan# 930

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

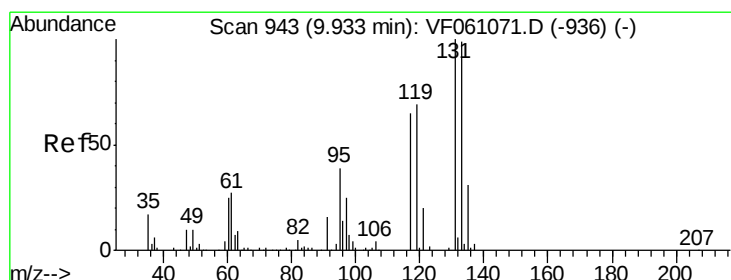
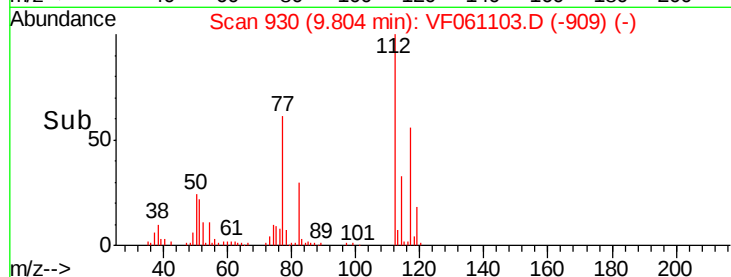
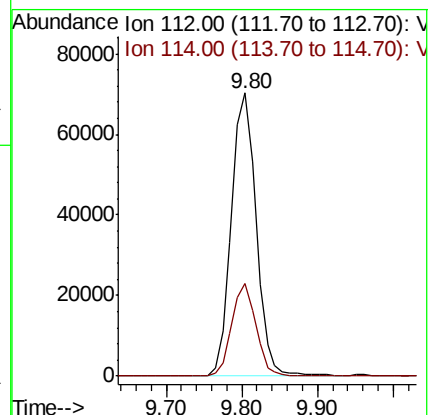
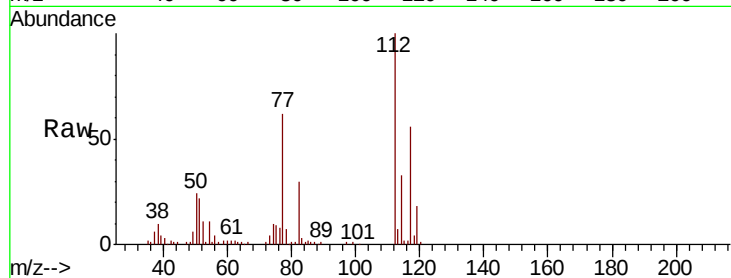
Instrument :
MSVOA_F
ClientSampled :

Tot Ion:112 Resp: 160217

Ion Ratio Lower Upper

112 100

114 32.5 27.8 41.6



#66

1,1,1,2-Tetrachloroethane

Concen: 19.051 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

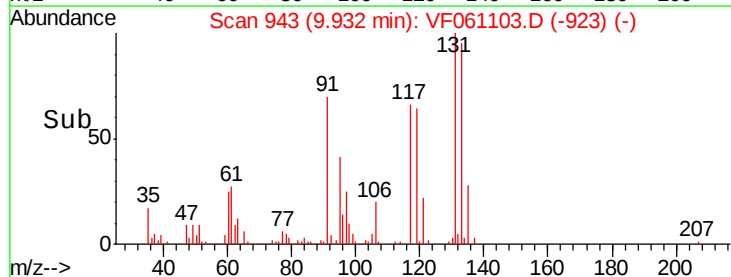
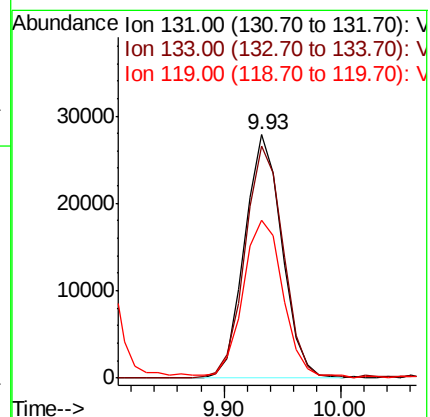
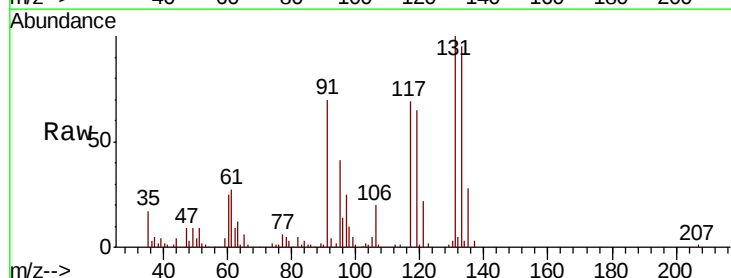
Tgt Ion:131 Resp: 61986

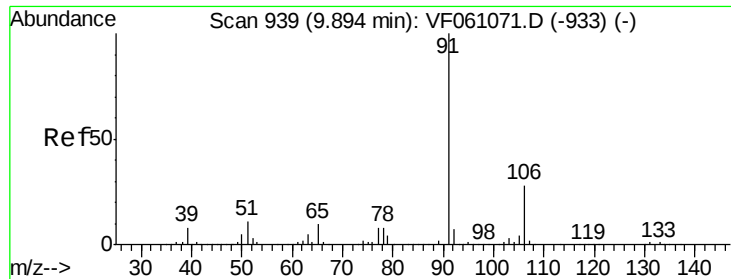
Ion Ratio Lower Upper

131 100

133 95.3 49.5 148.7

119 64.9 34.5 103.5

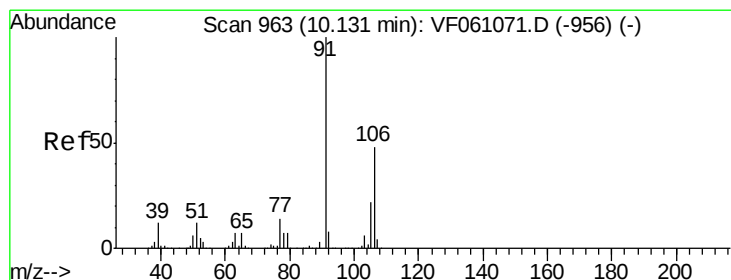
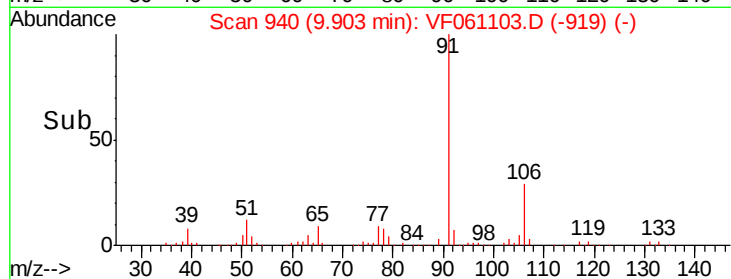
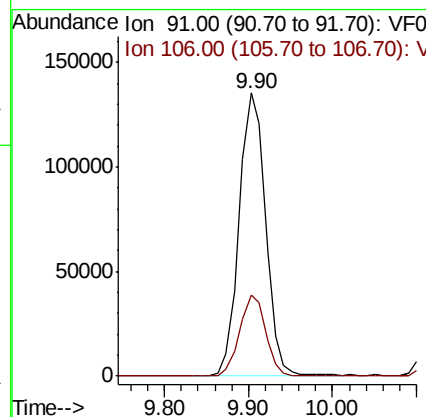
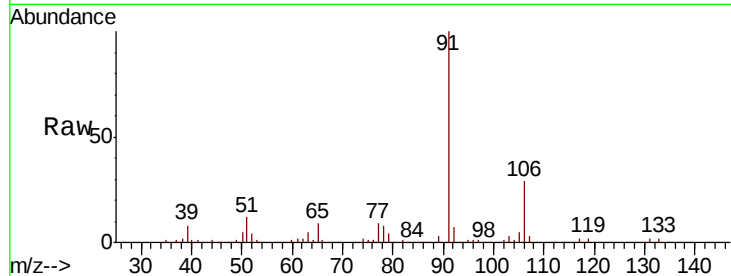




#67
Ethyl Benzene
Concen: 20.490 ug/l
RT: 9.90 min Scan# 940
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

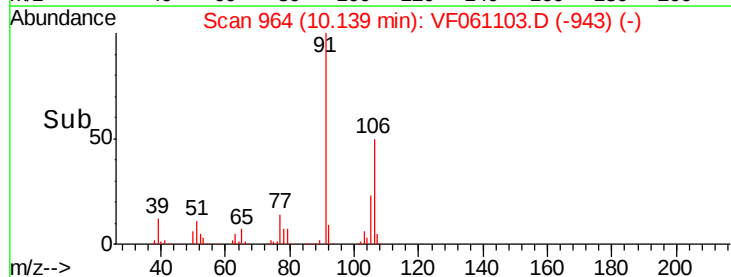
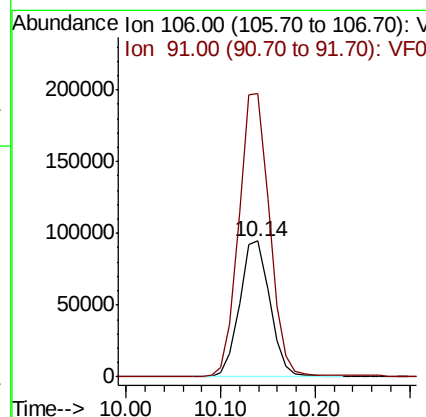
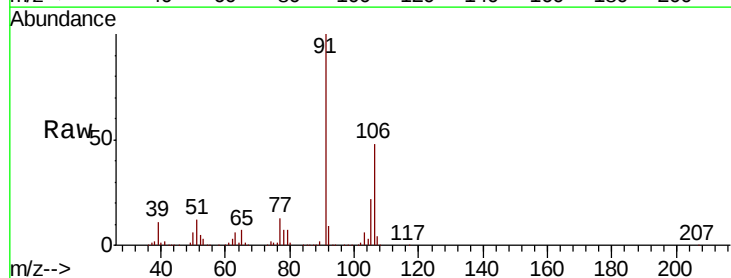
Instrument :
MSVOA_F
ClientSampled :

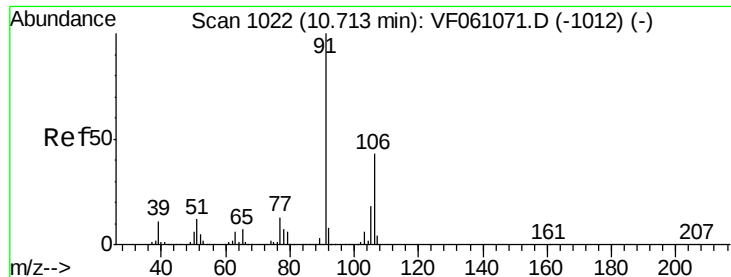
Tot Ion: 91 Resp: 297201
Ion Ratio Lower Upper
91 100
106 28.5 22.5 33.7



#68
m/p-Xylenes
Concen: 41.247 ug/l
RT: 10.14 min Scan# 964
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion: 106 Resp: 210550
Ion Ratio Lower Upper
106 100
91 208.7 168.2 252.2

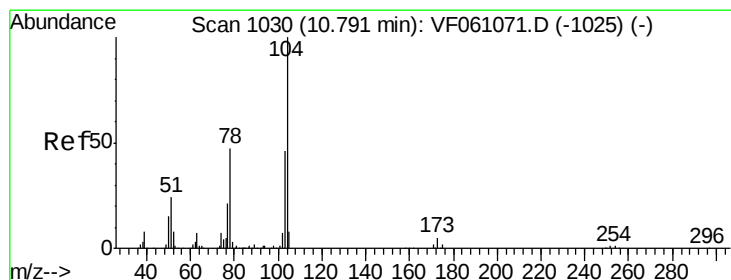
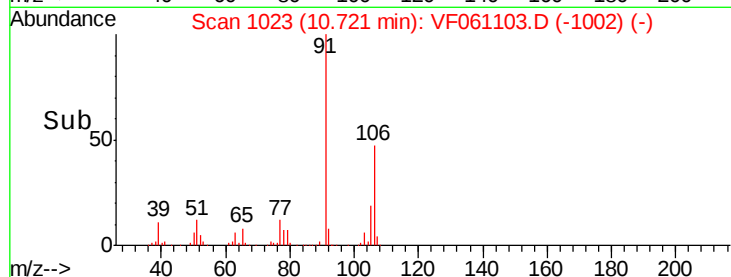
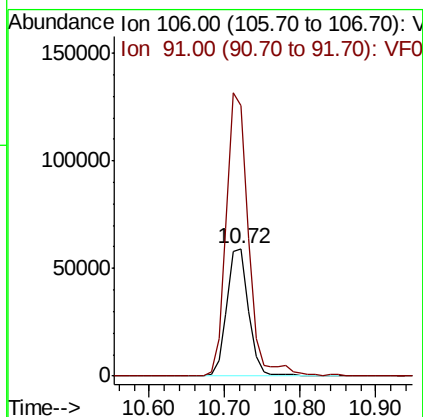
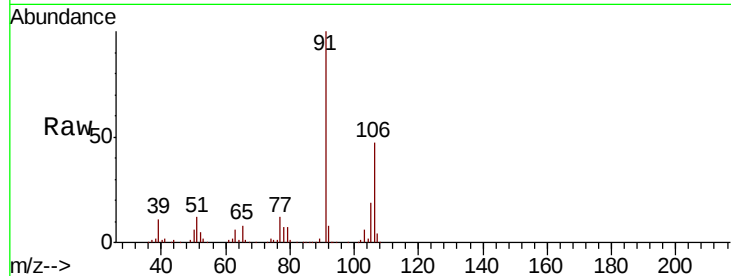




#69
o-Xylene
Concen: 20.917 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

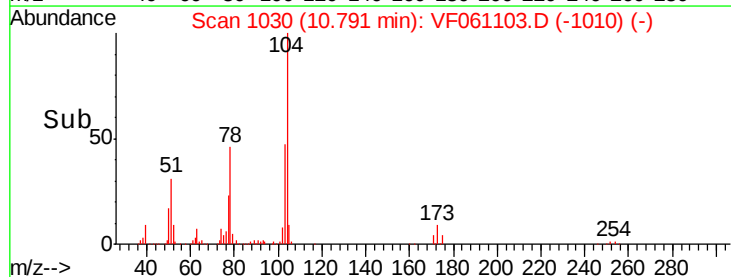
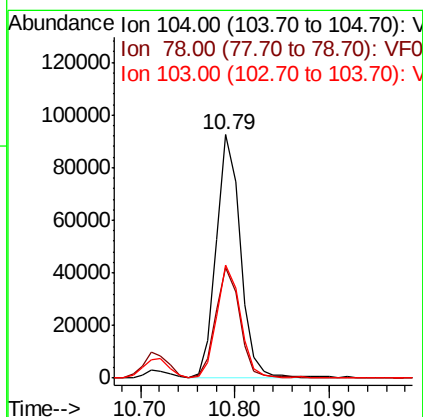
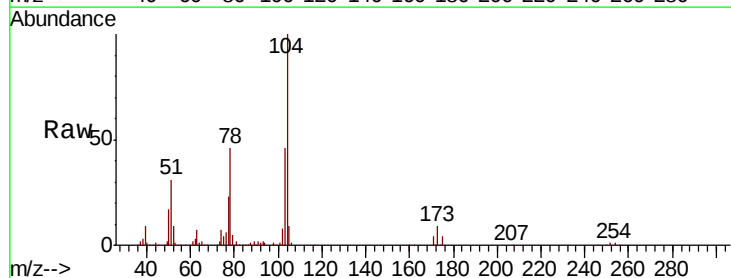
Instrument :
MSVOA_F
ClientSampled :

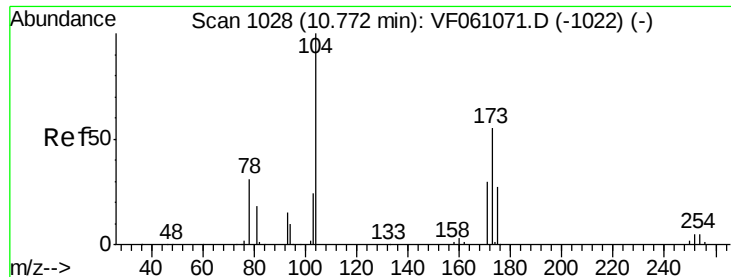
Tot Ion:106 Resp: 118418
Ion Ratio Lower Upper
106 100
91 212.2 115.9 347.7



#70
Styrene
Concen: 20.958 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion:104 Resp: 164150
Ion Ratio Lower Upper
104 100
78 45.5 38.4 57.6
103 46.5 37.0 55.6





#71

Bromoform

Concen: 18.612 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

ClientSampleId :

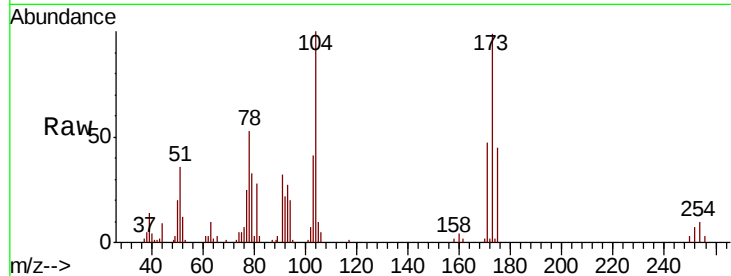
Tot Ion:173 Resp: 28017

Ion Ratio Lower Upper

173 100

175 45.1 24.8 74.4

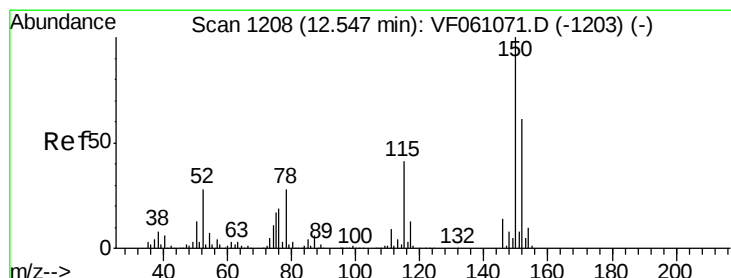
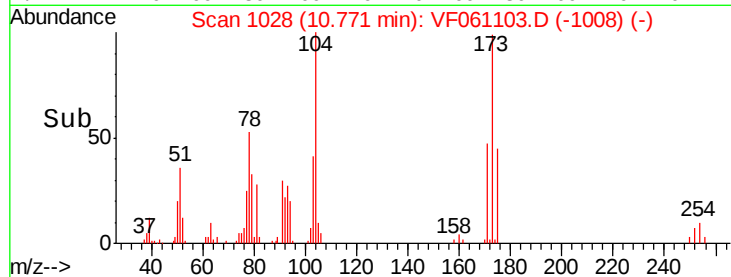
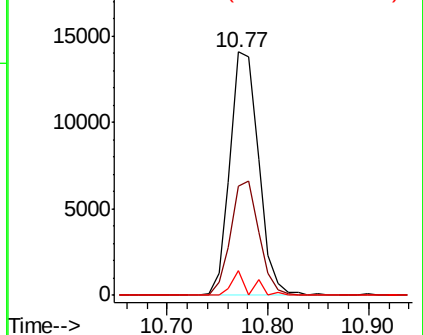
254 10.0 0.0 0.0#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

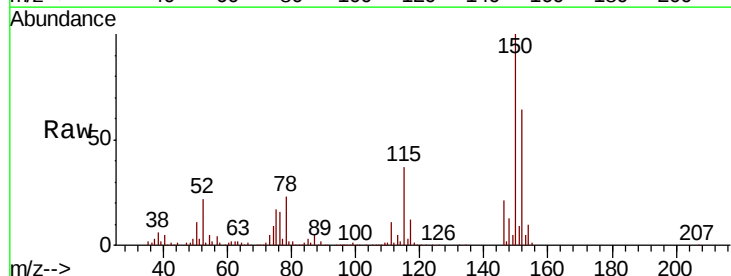
Tgt Ion:152 Resp: 183010

Ion Ratio Lower Upper

152 100

115 57.9 33.3 99.9

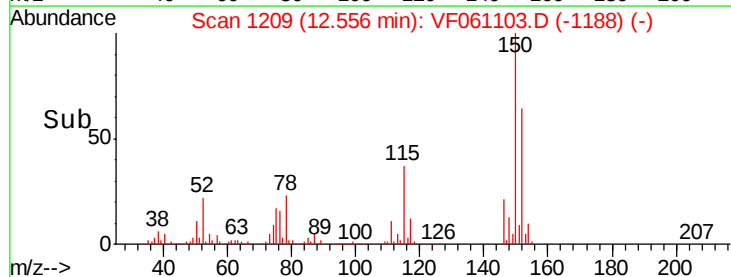
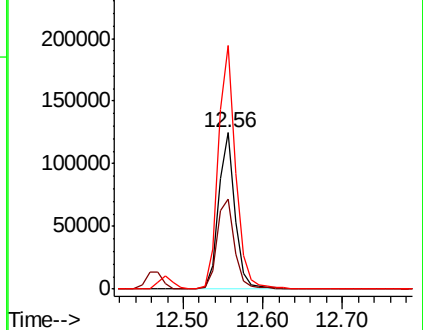
150 155.9 0.0 328.2

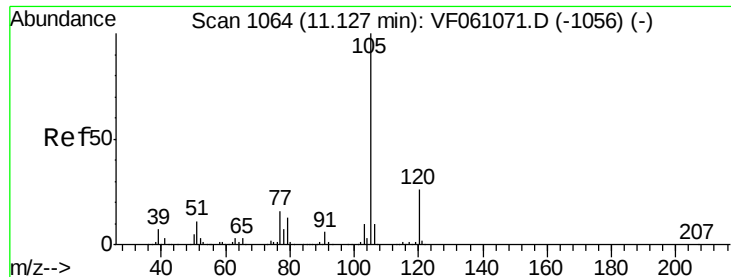


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.449 ug/l

RT: 11.13 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

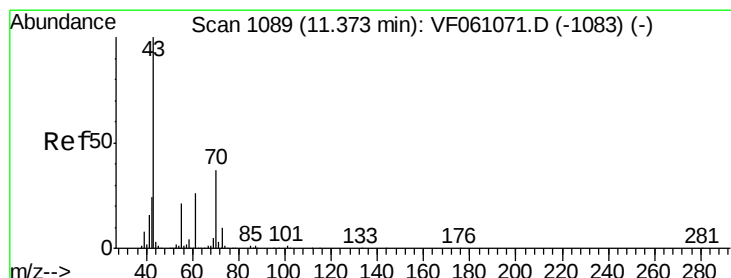
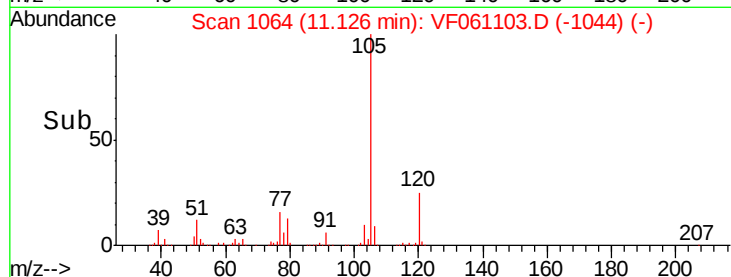
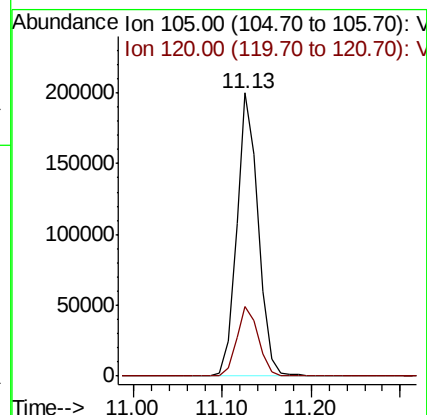
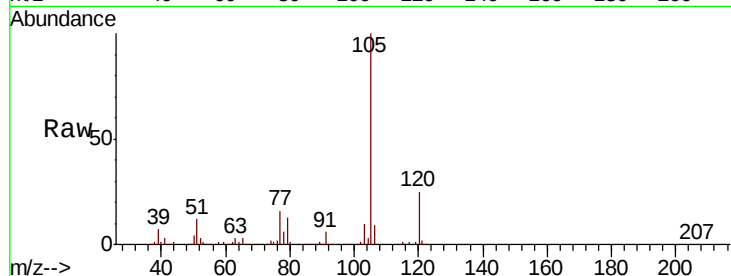
ClientSampleId :

Tot Ion:105 Resp: 338267

Ion Ratio Lower Upper

105 100

120 24.8 13.0 39.0



#74

N-ethyl acetate

Concen: 22.751 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Tgt Ion: 43 Resp: 79661

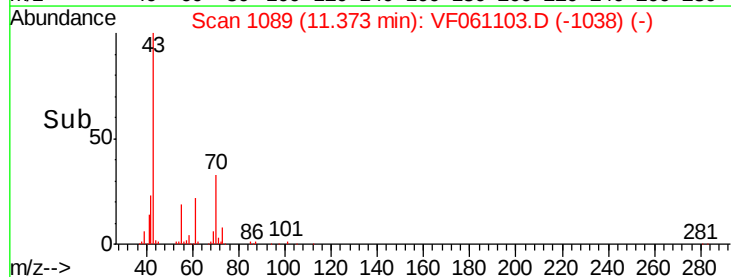
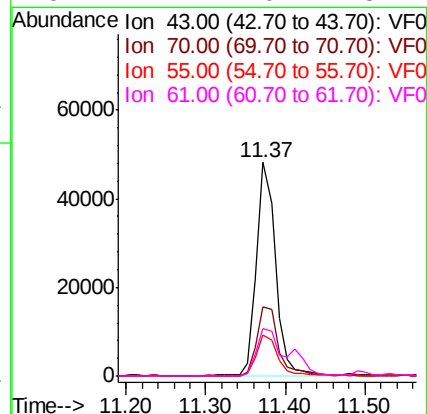
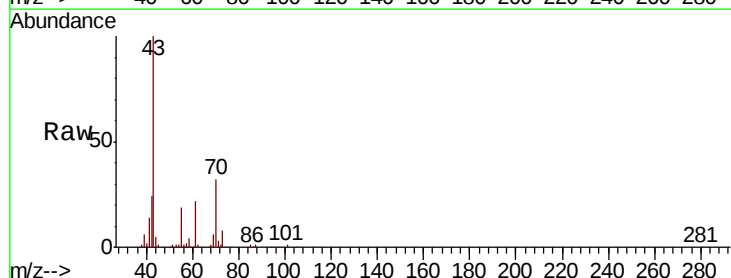
Ion Ratio Lower Upper

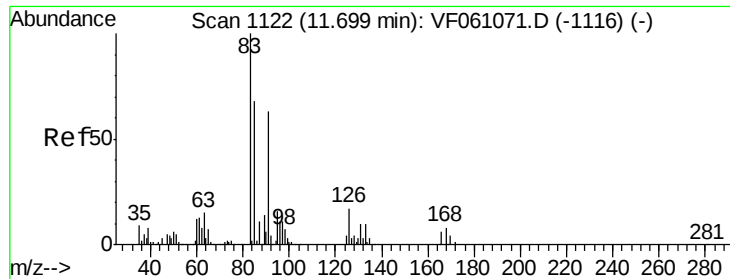
43 100

70 32.5 29.2 43.8

55 19.2 16.5 24.7

61 22.4 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 21.100 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

ClientSampleId :

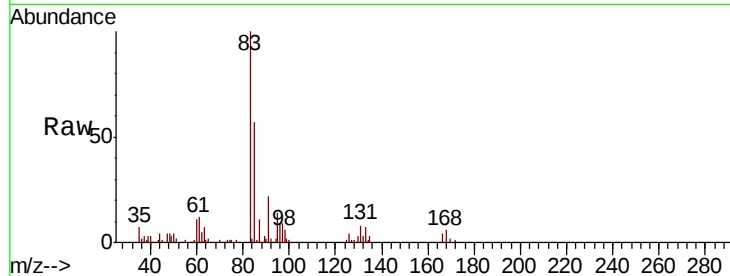
Tot Ion: 83 Resp: 55229

Ion Ratio Lower Upper

83 100

131 7.8 4.8 14.3

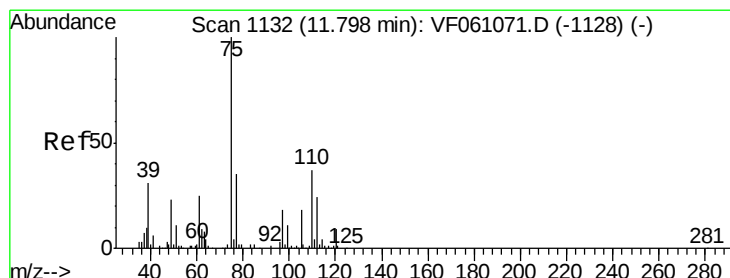
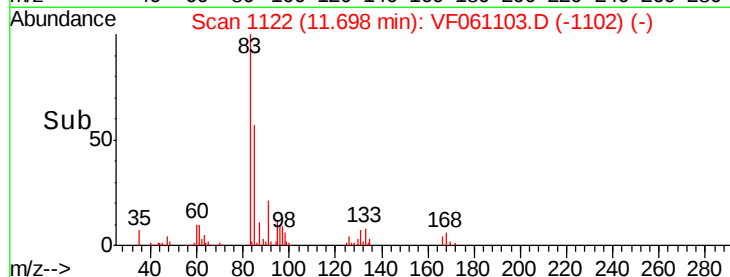
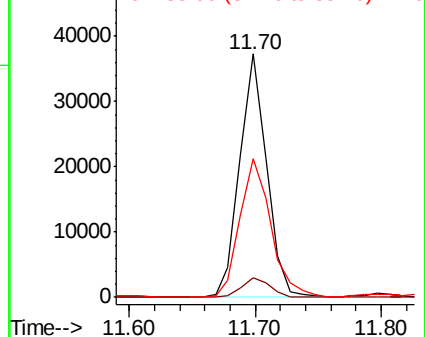
85 56.8 33.9 101.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.100 ug/l

RT: 11.80 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VF061103.D

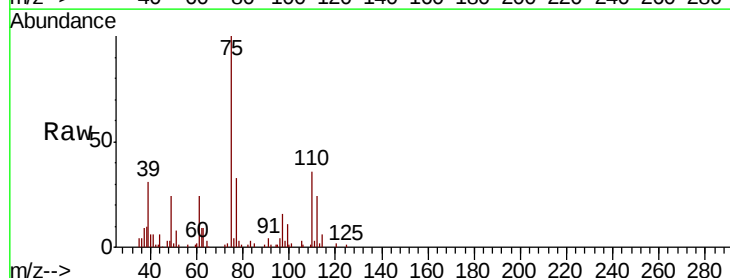
Acq: 20 Dec 2018 12:52

Tgt Ion: 75 Resp: 37204

Ion Ratio Lower Upper

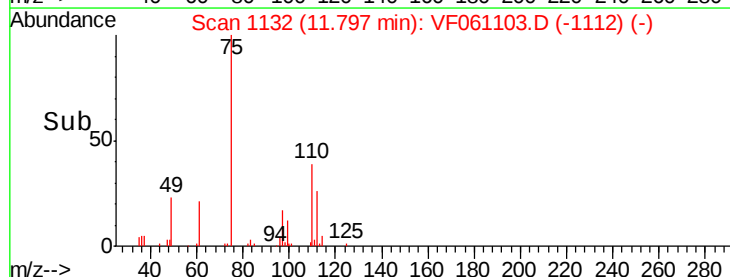
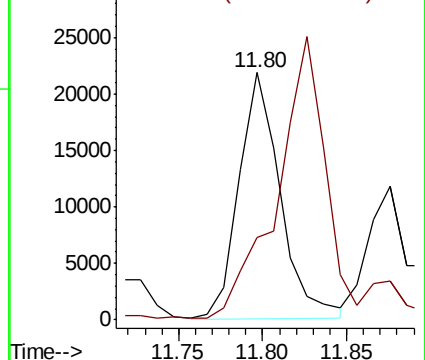
75 100

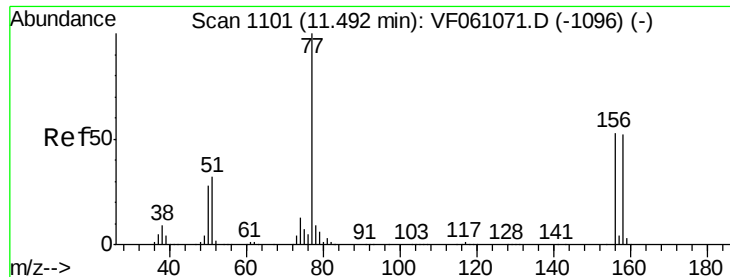
77 33.4 17.6 52.9



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 20.644 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

ClientSampleId :

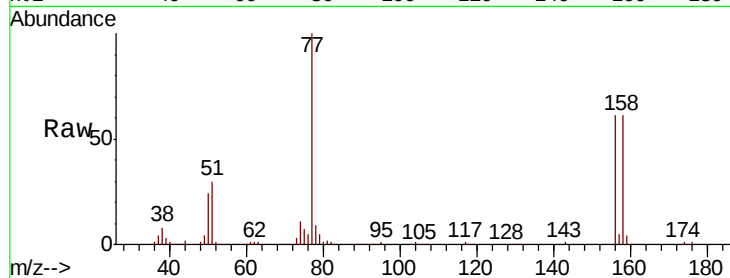
Tot Ion:156 Resp: 70085

Ion Ratio Lower Upper

156 100

77 164.7 93.8 281.4

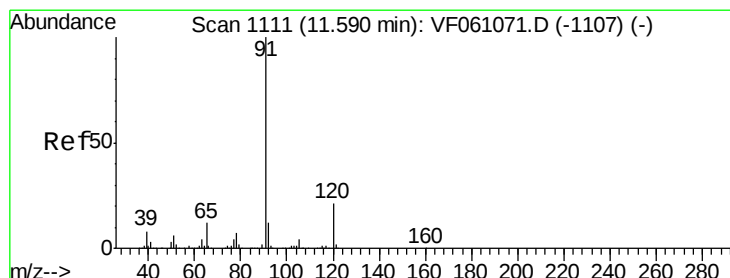
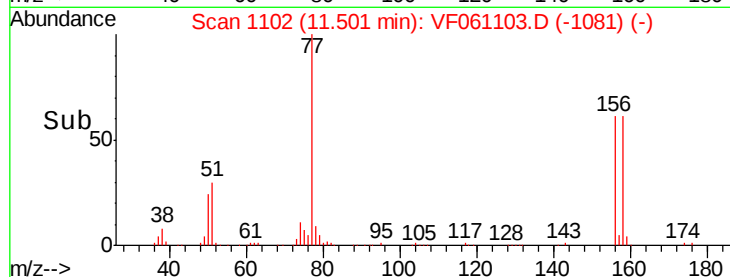
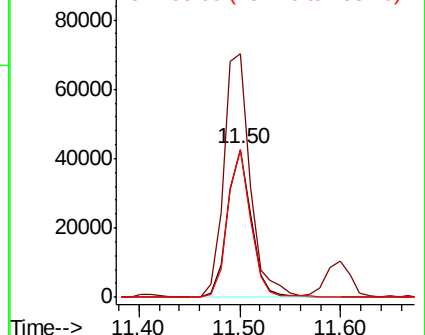
158 99.7 48.9 146.8



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: 20.308 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF061103.D

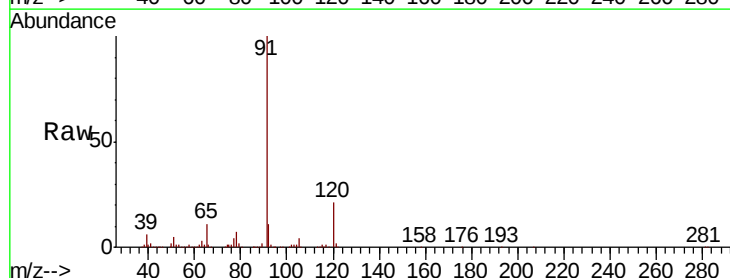
Acq: 20 Dec 2018 12:52

Tgt Ion: 91 Resp: 415402

Ion Ratio Lower Upper

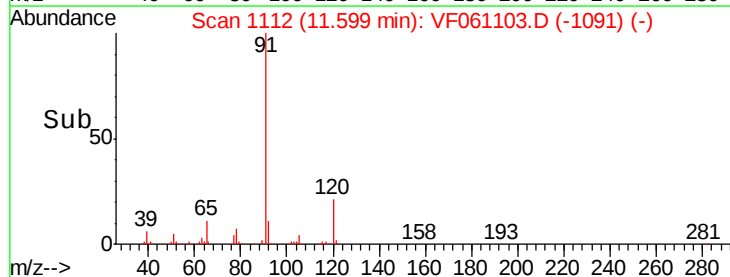
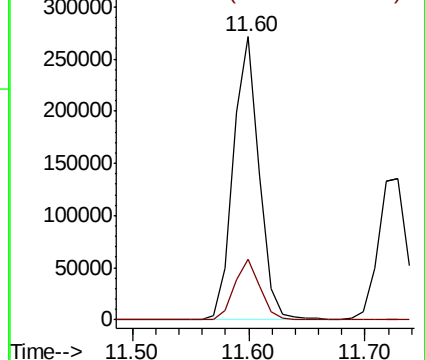
91 100

120 21.3 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: 21.274 ug/l

RT: 11.73 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

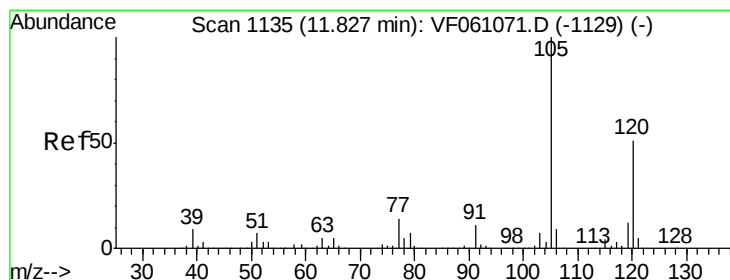
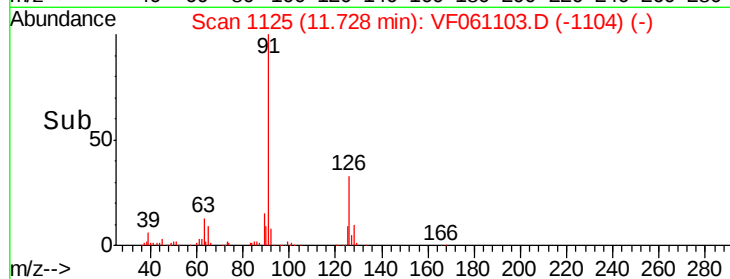
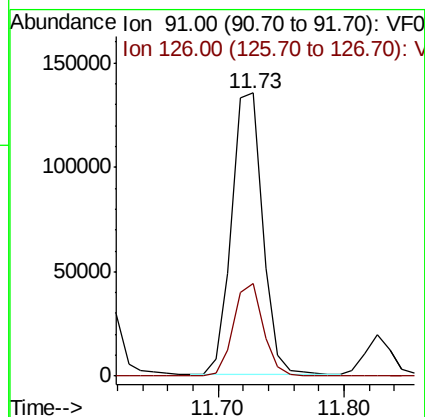
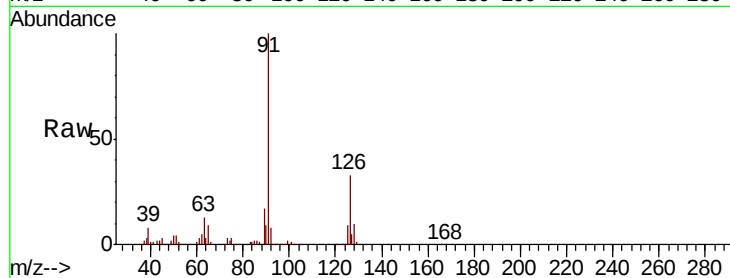
ClientSampled :

Tot Ion: 91 Resp: 230160

Ion Ratio Lower Upper

91 100

126 32.8 16.4 49.1



#80

1,3,5-Trimethylbenzene

Concen: 20.795 ug/l

RT: 11.83 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF061103.D

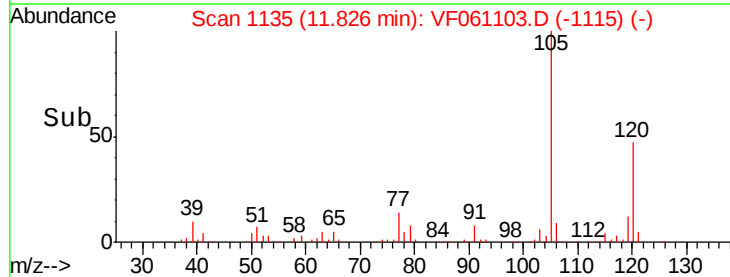
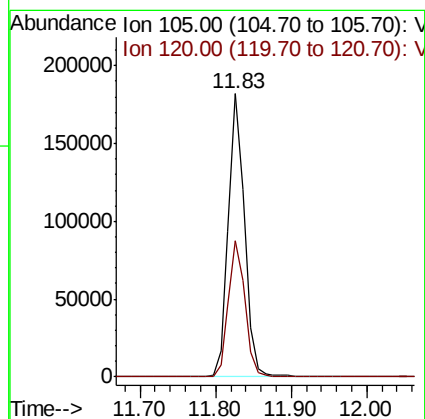
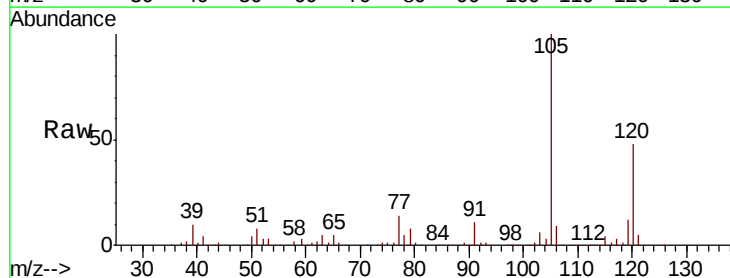
Acq: 20 Dec 2018 12:52

Tgt Ion: 105 Resp: 270042

Ion Ratio Lower Upper

105 100

120 48.1 25.4 76.4

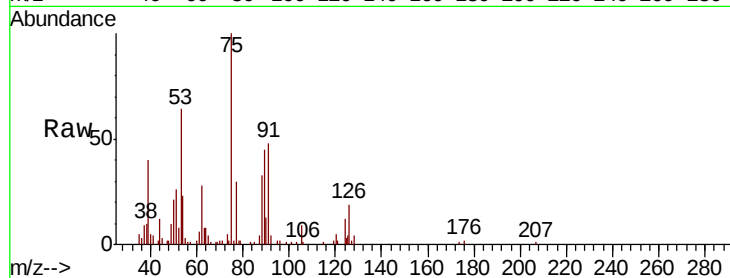




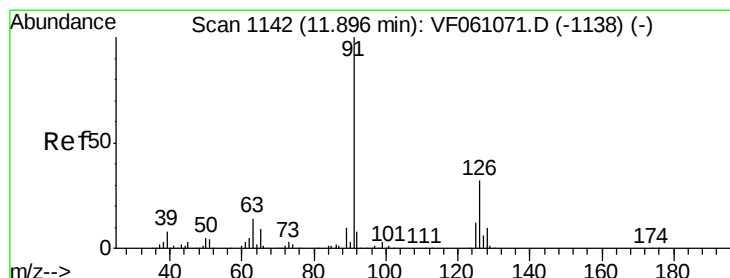
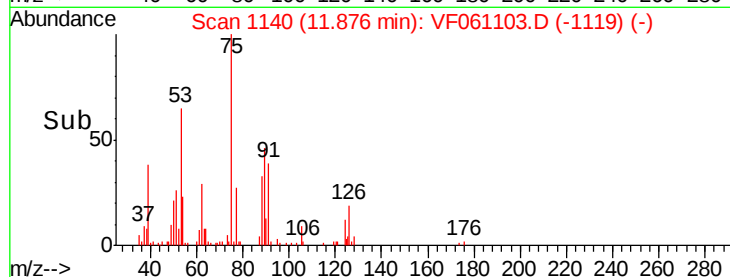
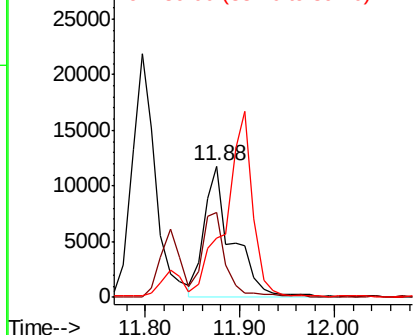
#81
trans-1,4-Dichloro-2-butene
Concen: 29.845 ug/l
RT: 11.88 min Scan# 1140
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 75 Resp: 24981
Ion Ratio Lower Upper
75 100
53 64.1 74.1 111.1#
89 45.2 42.6 64.0

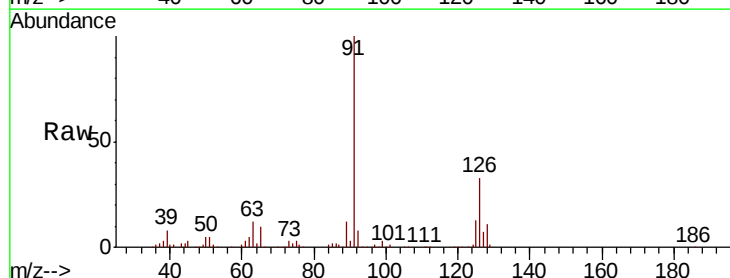


Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0

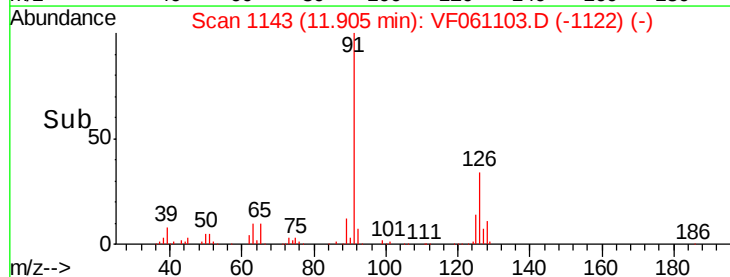
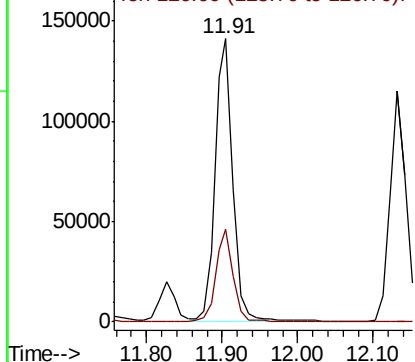


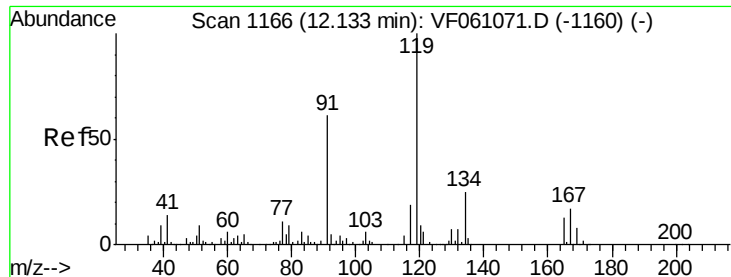
#82
4-Chlorotoluene
Concen: 20.667 ug/l
RT: 11.91 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion: 91 Resp: 231307
Ion Ratio Lower Upper
91 100
126 32.8 16.0 47.9



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V

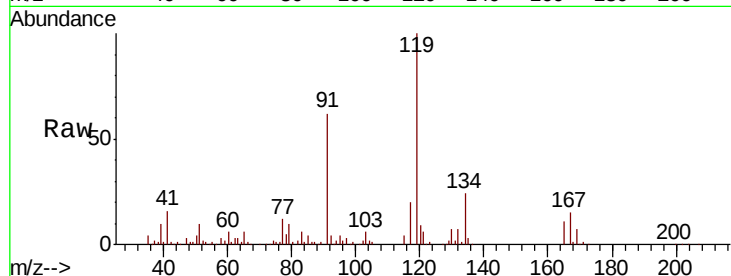




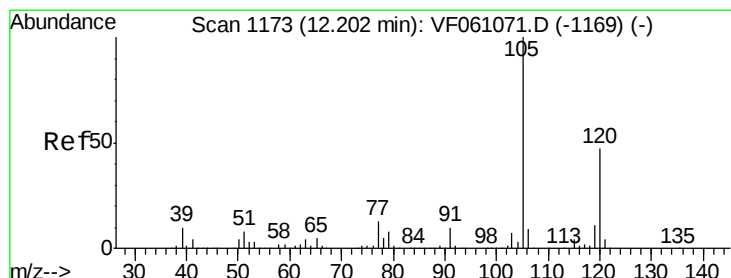
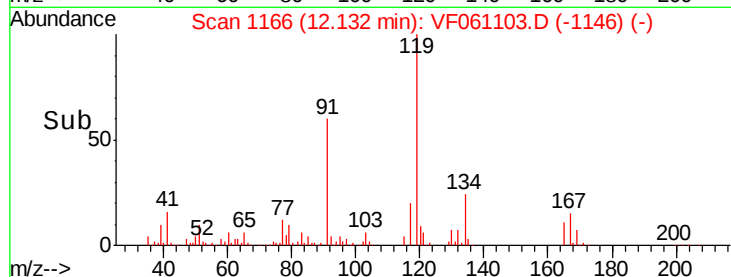
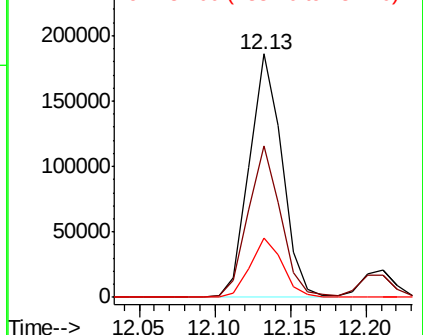
#83
tert-Butylbenzene
Concen: 21.105 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.00 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:119 Resp: 282028
Ion Ratio Lower Upper
119 100
91 62.0 30.5 91.5
134 24.5 12.4 37.4

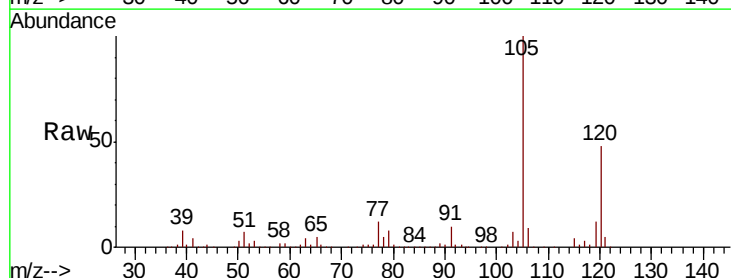


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

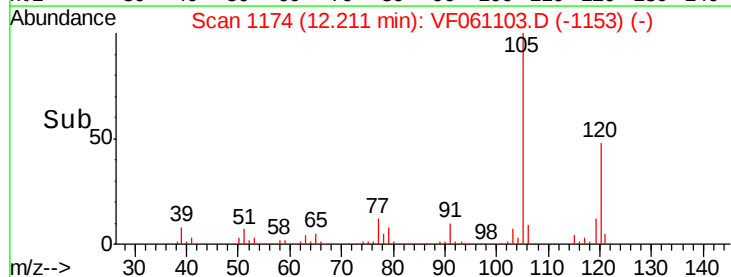
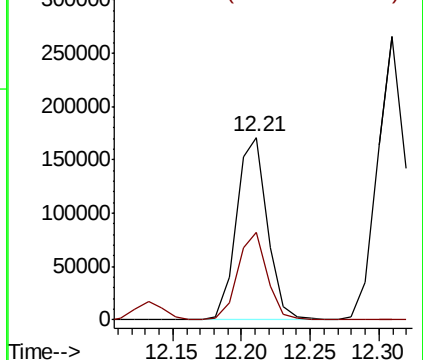


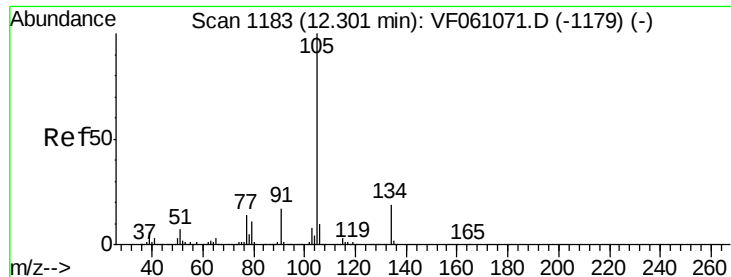
#84
1,2,4-Trimethylbenzene
Concen: 20.620 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion:105 Resp: 267023
Ion Ratio Lower Upper
105 100
120 48.1 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: 21.935 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

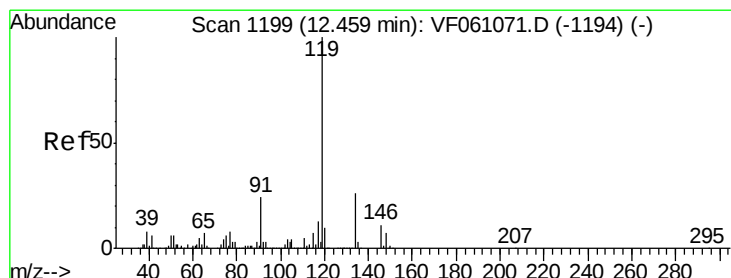
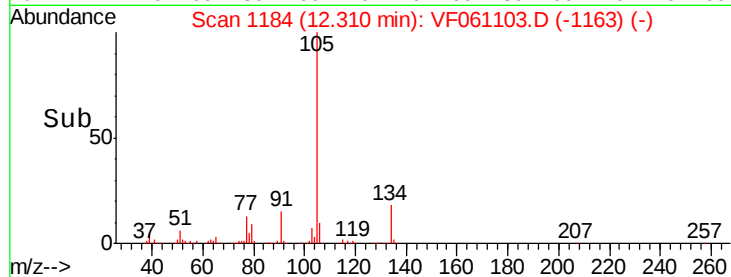
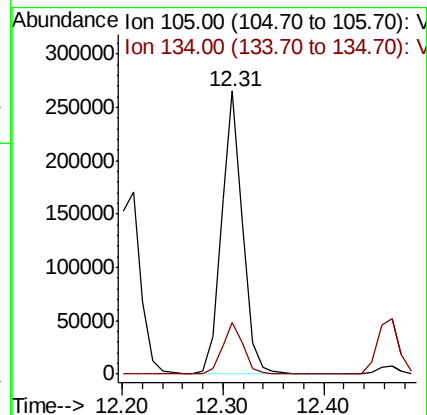
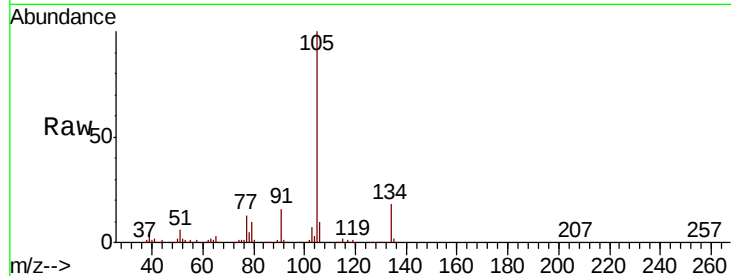
ClientSampleId :

Tot Ion:105 Resp: 382523

Ion Ratio Lower Upper

105 100

134 18.4 9.4 28.2



#86

p-Isopropyltoluene

Concen: 22.266 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

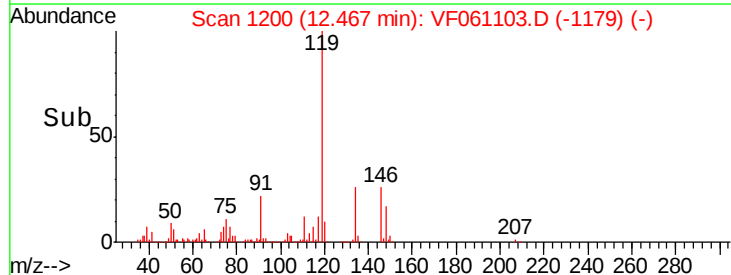
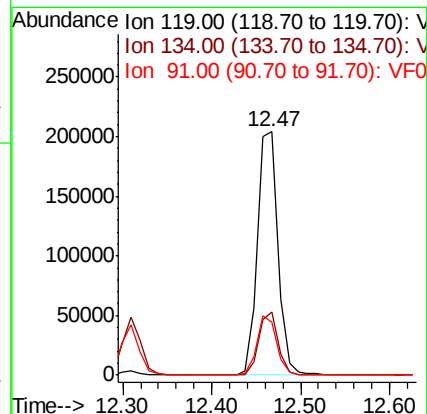
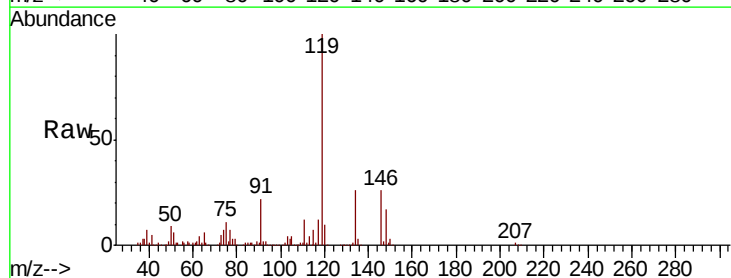
Tgt Ion:119 Resp: 322301

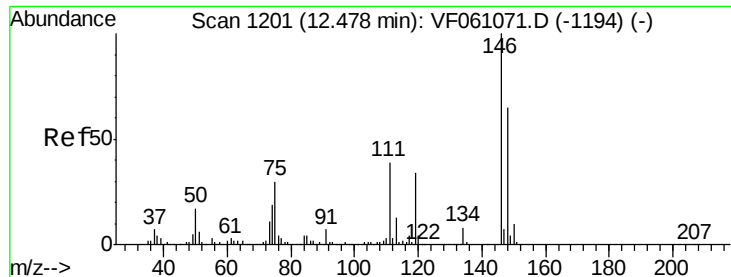
Ion Ratio Lower Upper

119 100

134 25.8 12.8 38.4

91 21.8 12.2 36.6

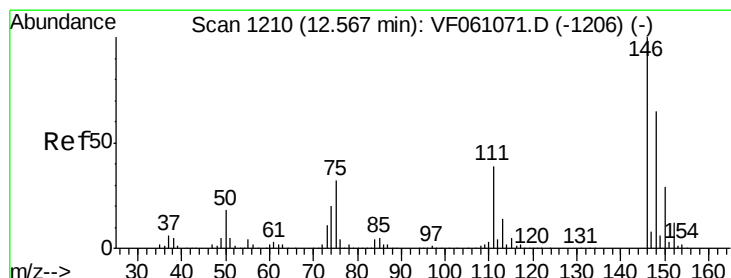
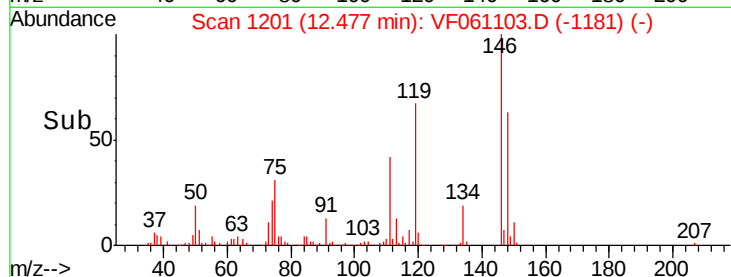
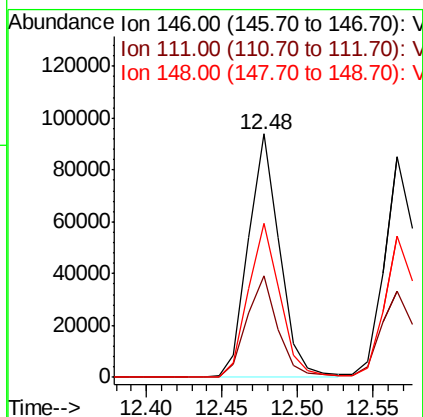
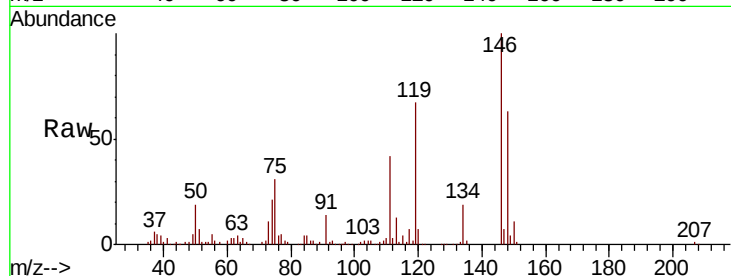




#87
 1,3-Dichlorobenzene
 Concen: 21.490 ug/l
 RT: 12.48 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

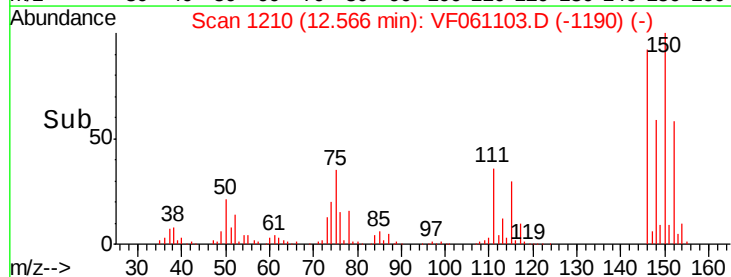
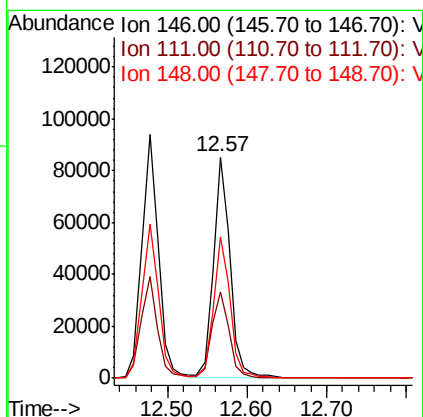
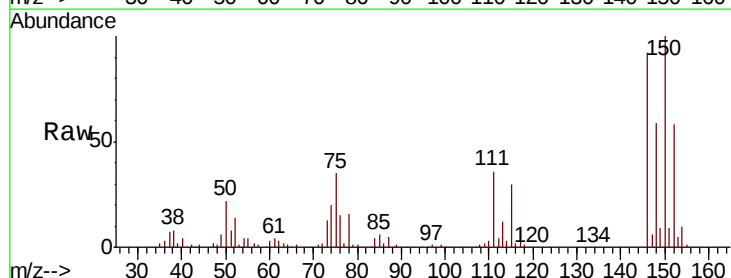
Instrument :
 MSVOA_F
 ClientSampleId :

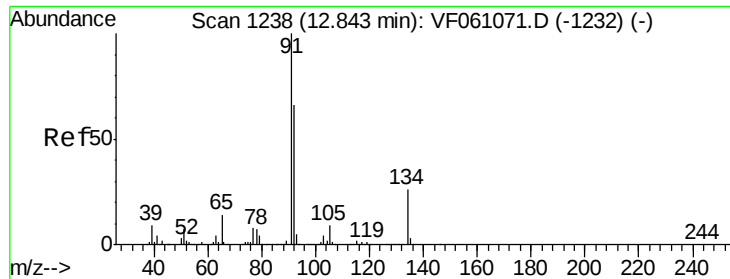
Tot Ion	Ratio	Lower	Upper
146	100		
111	42.0	19.3	57.9
148	63.5	32.4	97.2



#88
 1,4-Dichlorobenzene
 Concen: 20.466 ug/l
 RT: 12.57 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.4	58.4
148	63.7	32.4	97.0

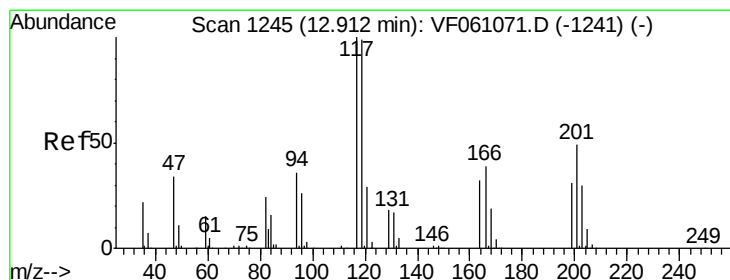
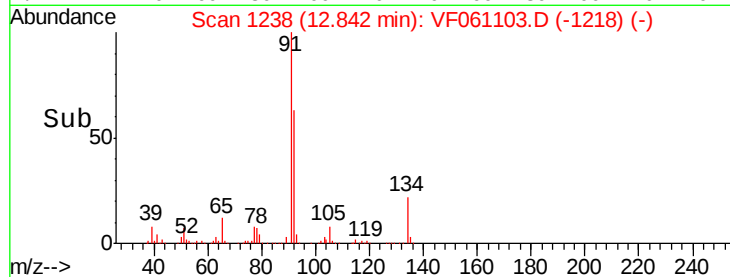
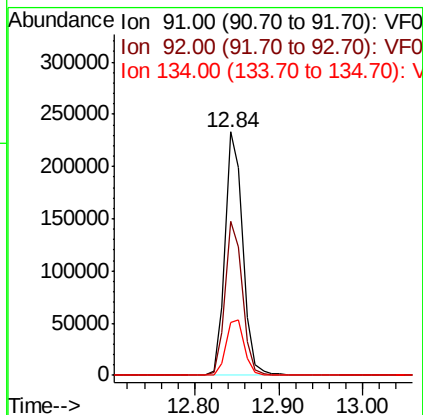
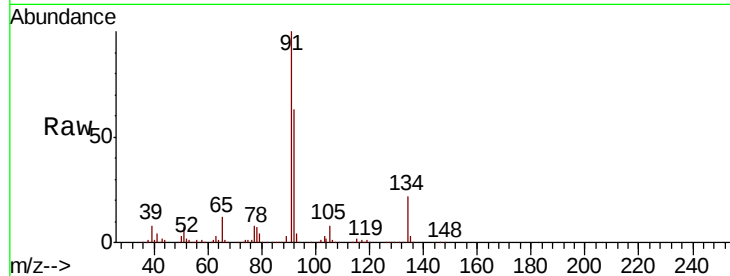




#89
n-Butylbenzene
Concen: 20.553 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

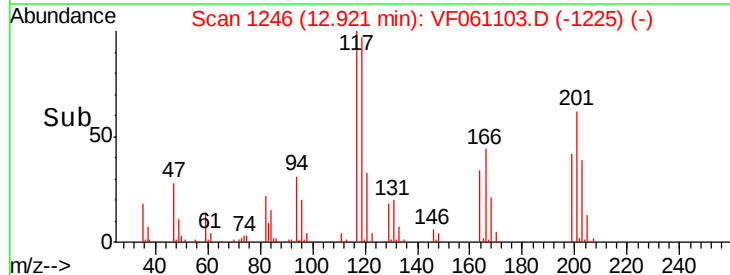
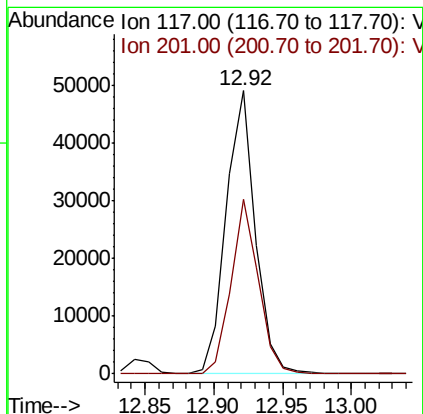
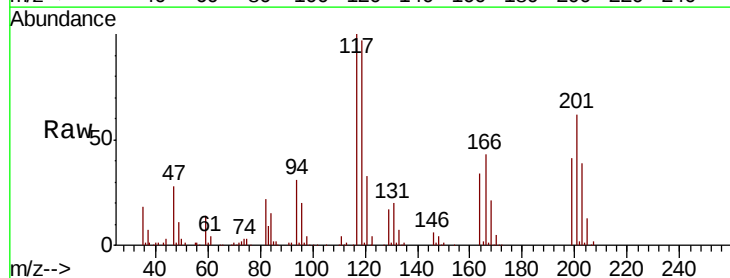
Instrument :
MSVOA_F
ClientSampleId :

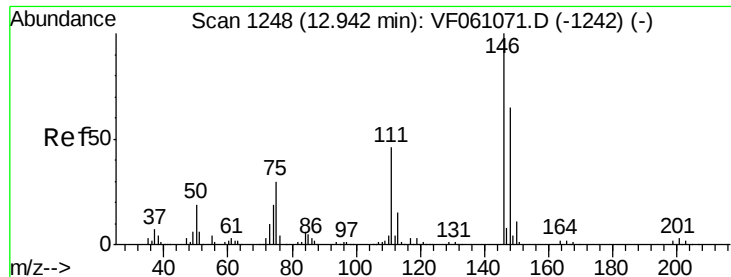
Tot Ion: 91 Resp: 340312
Ion Ratio Lower Upper
91 100
92 63.0 32.8 98.4
134 21.6 13.2 39.5



#90
Hexachloroethane
Concen: 20.190 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.01 min
Lab File: VF061103.D
Acq: 20 Dec 2018 12:52

Tgt Ion: 117 Resp: 72205
Ion Ratio Lower Upper
117 100
201 61.9 24.9 74.8





#91

1,2-Dichlorobenzene

Concen: 20.384 ug/l

RT: 12.94 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

ClientSampleId :

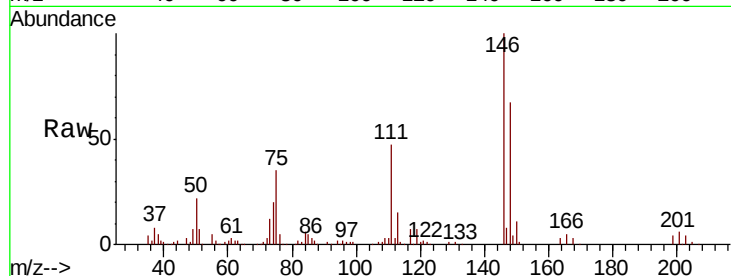
Tot Ion:146 Resp: 123718

Ion Ratio Lower Upper

146 100

111 46.6 23.2 69.5

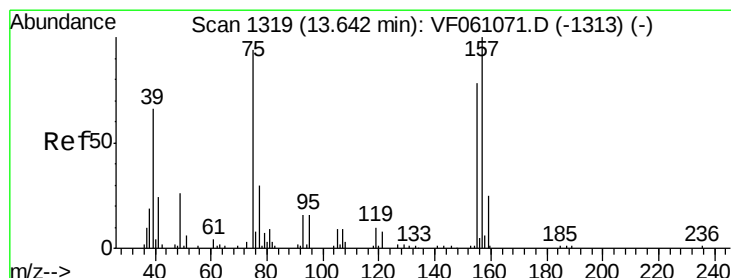
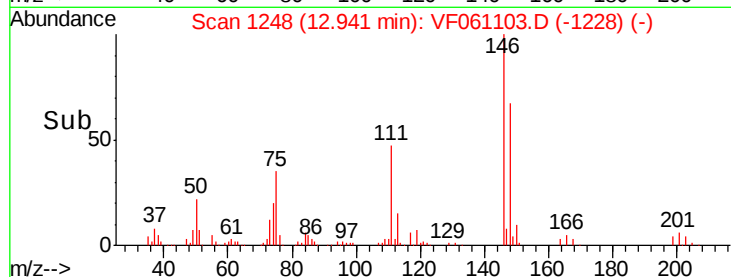
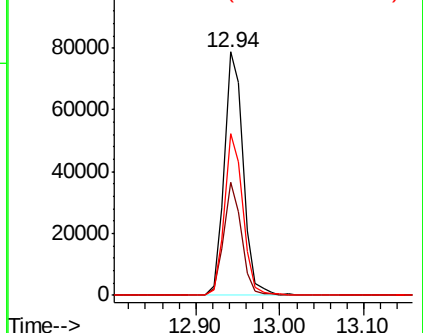
148 66.6 32.4 97.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.740 ug/l

RT: 13.64 min Scan# 1319

Delta R.T. -0.00 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

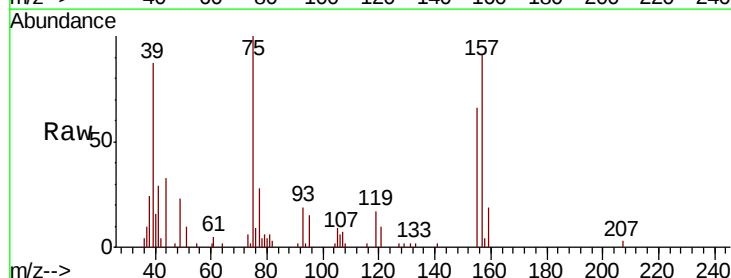
Tgt Ion: 75 Resp: 9001

Ion Ratio Lower Upper

75 100

155 66.0 41.5 124.5

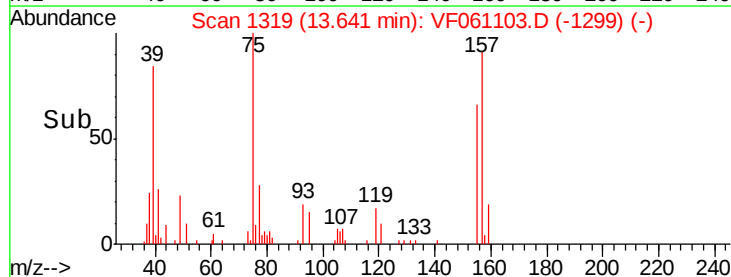
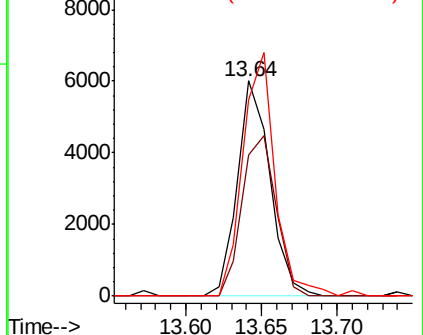
157 91.3 53.2 159.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

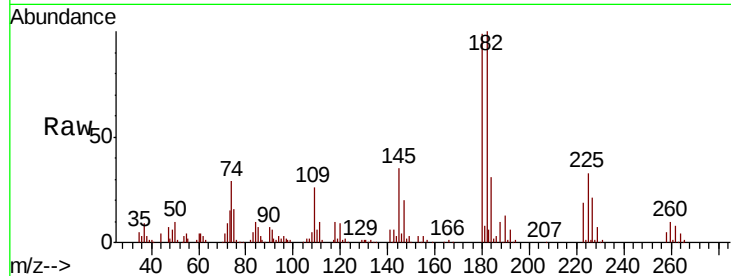




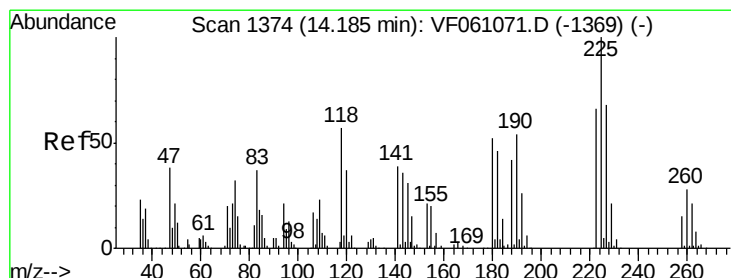
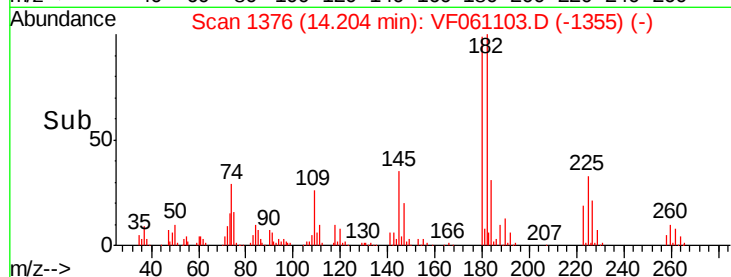
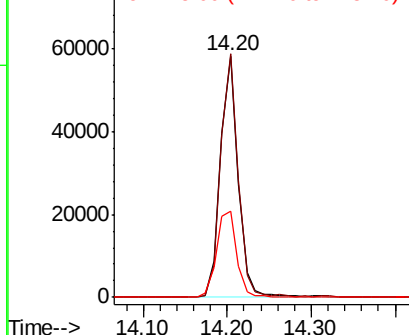
#93
 1,2,4-Trichlorobenzene
 Concen: 19.988 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion:180 Resp: 86035
 Ion Ratio Lower Upper
 180 100
 182 100.9 46.9 140.6
 145 35.6 20.5 61.6

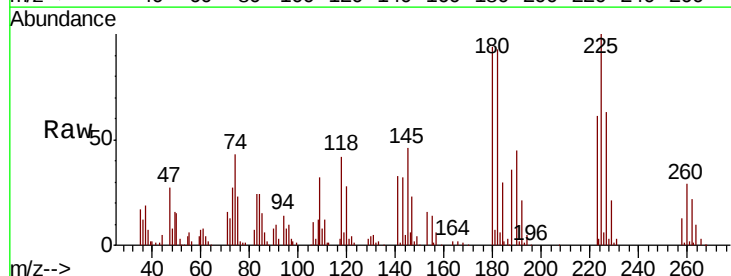


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

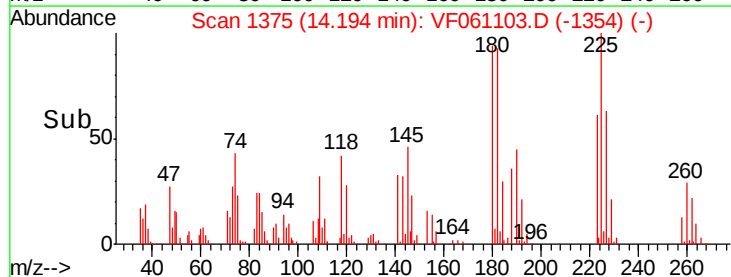
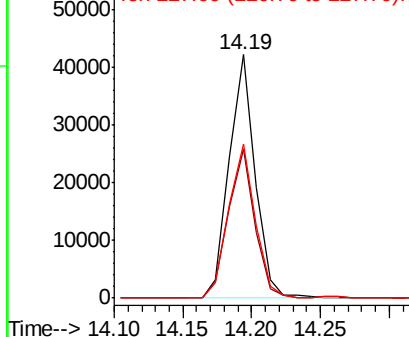


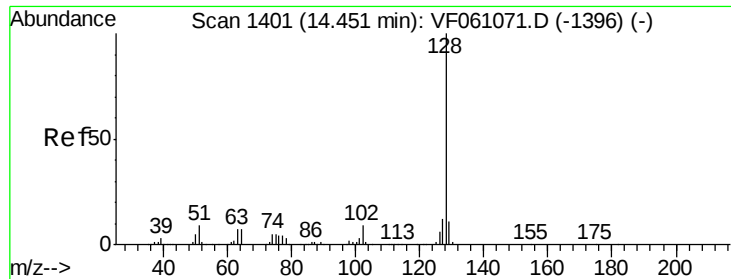
#94
 Hexachlorobutadiene
 Concen: 20.280 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.01 min
 Lab File: VF061103.D
 Acq: 20 Dec 2018 12:52

Tgt Ion:225 Resp: 55596
 Ion Ratio Lower Upper
 225 100
 223 61.2 32.8 98.3
 227 63.2 34.0 101.8



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 19.363 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

Instrument :

MSVOA_F

ClientSampleId :

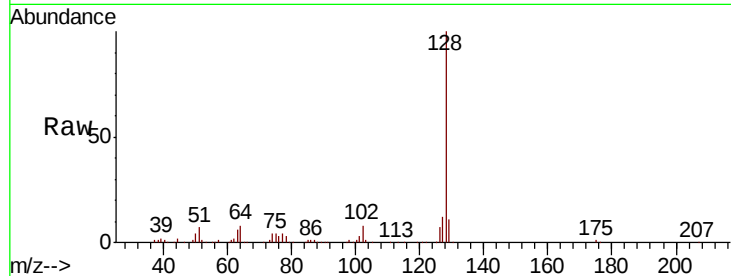
Tot Ion:128 Resp: 152192

Ion Ratio Lower Upper

128 100

127 11.9 9.4 14.2

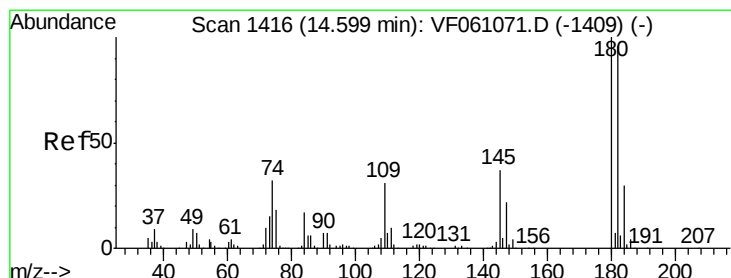
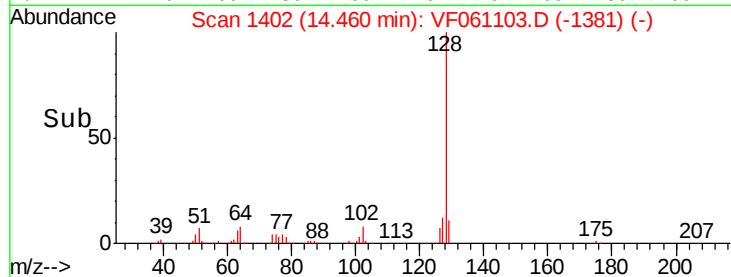
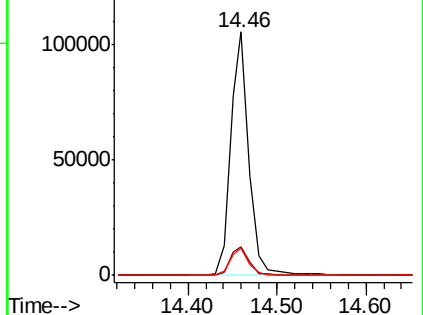
129 11.3 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.379 ug/l

RT: 14.61 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VF061103.D

Acq: 20 Dec 2018 12:52

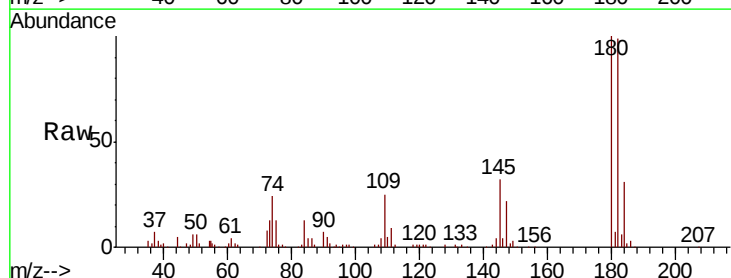
Tgt Ion:180 Resp: 77113

Ion Ratio Lower Upper

180 100

182 99.0 47.9 143.8

145 32.5 18.6 55.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

