

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080418\
 Data File : VF059872.D
 Acq On : 4 Aug 2018 8:52
 Operator : VA/AP
 Sample : VF0802SBSD02
 Misc : 5.00µg/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 06 02:17:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	191328	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	285109	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	277371	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	187560	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.02	65	175492	50.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.76%	
35) Dibromofluoromethane	4.30	113	140753	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
50) Toluene-d8	7.71	98	330100	54.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.38%	
62) 4-Bromofluorobenzene	11.52	95	181460	53.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	65109	19.917	ug/l	99
3) Chloromethane	1.09	50	35520	23.490	ug/l	99
4) Vinyl Chloride	1.16	62	33871	21.865	ug/l	98
5) Bromomethane	1.33	94	27419	18.752	ug/l	92
6) Chloroethane	1.42	64	19912	20.465	ug/l	98
7) Trichlorofluoromethane	1.53	101	54146	12.771	ug/l	91
8) Diethyl Ether	1.70	74	12930	19.218	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	1.91	101	48231	20.614	ug/l	93
10) Methyl Iodide	1.97	142	73459	20.437	ug/l	98
11) Tert butyl alcohol	2.69	59	12634	90.805	ug/l	95
12) 1,1-Dichloroethene	1.86	96	34722	20.316	ug/l	84
13) Acrolein	2.09	56	5499	65.950	ug/l	93
14) Allyl chloride	2.19	41	57481	20.173	ug/l	98
15) Acrylonitrile	3.07	53	25481	99.944	ug/l #	95
16) Acetone	2.34	43	64389	101.117	ug/l	96
17) Carbon Disulfide	1.89	76	70420	15.435	ug/l	99
18) Methyl Acetate	2.46	43	22939	21.354	ug/l	99
19) Methyl tert-butyl Ether	2.54	73	94365	19.502	ug/l #	90
20) Methylene Chloride	2.28	84	40713	22.380	ug/l	91
21) trans-1,2-Dichloroethene	2.41	96	36531	21.518	ug/l	99
22) Diisopropyl ether	2.93	45	112898	20.595	ug/l	93
23) Vinyl Acetate	3.34	43	285252	107.495	ug/l	97
24) 1,1-Dichloroethane	3.00	63	77450	19.401	ug/l	97
25) 2-Butanone	4.52	43	71932	103.888	ug/l	98
26) 2,2-Dichloropropane	3.77	77	50238	21.618	ug/l	89
27) cis-1,2-Dichloroethene	3.64	96	43950	23.023	ug/l	94
28) Bromochloromethane	3.90	49	30981	21.978	ug/l	95
29) Tetrahydrofuran	4.25	42	26858	105.367	ug/l	100
30) Chloroform	4.04	83	112279	20.790	ug/l	93
31) Cyclohexane	3.88	56	40556	20.526	ug/l	90
32) 1,1,1-Trichloroethane	4.28	97	86013	19.908	ug/l	99
36) 1,1-Dichloropropene	4.46	75	64976	19.703	ug/l	96
37) Ethyl Acetate	4.29	43	29723	20.991	ug/l #	79
38) Carbon Tetrachloride	4.17	117	95117	20.148	ug/l #	92

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

39) Methylcyclohexane	5.63	83	50574	20.449	ug/l #	85
40) Benzene	4.81	78	119109	19.166	ug/l	98
41) Methacrylonitrile	4.93	41	14171	18.964	ug/l	92
42) 1,2-Dichloroethane	5.12	62	84947	18.603	ug/l	100
43) Isopropyl Acetate	7.12	43	29863	20.482	ug/l #	90
44) Trichloroethene	5.67	130	47025	21.411	ug/l	97
45) 1,2-Dichloropropane	6.41	63	31721	20.961	ug/l	98
46) Dibromomethane	6.26	93	30608	20.044	ug/l #	88
47) Bromodichloromethane	6.55	83	79957	19.144	ug/l	94
48) Methyl methacrylate	6.88	41	22586	19.912	ug/l	92
49) 1,4-Dioxane	6.87	88	3020	421.216	ug/l #	79
51) 4-Methyl-2-Pentanone	8.41	43	148166	99.391	ug/l	96
52) Toluene	7.78	92	91034	21.856	ug/l	91
53) t-1,3-Dichloropropene	8.43	75	65593	20.646	ug/l	96
54) cis-1,3-Dichloropropene	7.47	75	65581	20.001	ug/l	92
55) 1,1,2-Trichloroethane	8.65	97	30236	20.166	ug/l	95
56) Ethyl methacrylate	8.77	69	28663	19.619	ug/l	92
57) 1,3-Dichloropropane	9.00	76	55095	21.399	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.78	63	19761	99.620	ug/l	100
59) 2-Hexanone	9.63	43	106692	101.316	ug/l	100
60) Dibromochloromethane	8.87	129	55821	19.844	ug/l	98
61) 1,2-Dibromoethane	9.14	107	37055	20.283	ug/l	98
64) Tetrachloroethene	8.31	164	51718	21.614	ug/l	95
65) Chlorobenzene	9.94	112	118808	21.103	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.08	131	56178	20.060	ug/l	89
67) Ethyl Benzene	10.05	91	212972	21.714	ug/l	97
68) m/p-Xylenes	10.27	106	150747	44.461	ug/l	91
69) o-Xylene	10.84	106	81149	22.593	ug/l	93
70) Styrene	10.91	104	120262	22.438	ug/l	94
71) Bromoform	10.90	173	33935	19.772	ug/l	90
73) Isopropylbenzene	11.23	105	249612	21.367	ug/l	100
74) N-amyl acetate	11.47	43	55531	21.031	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.79	83	45407	20.702	ug/l	92
76) 1,2,3-Trichloropropane	11.89	75	38020	20.182	ug/l	100
77) Bromobenzene	11.60	156	65509	20.620	ug/l	93
78) n-propylbenzene	11.69	91	298449	21.632	ug/l	99
79) 2-Chlorotoluene	11.81	91	201123	23.045	ug/l	96
80) 1,3,5-Trimethylbenzene	11.91	105	227084	20.933	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.96	75	21159	31.269	ug/l #	83
82) 4-Chlorotoluene	11.99	91	196523	20.738	ug/l	99
83) tert-Butylbenzene	12.22	119	232282	21.998	ug/l	99
84) 1,2,4-Trimethylbenzene	12.29	105	238424	21.370	ug/l	98
85) sec-Butylbenzene	12.39	105	306368	21.836	ug/l	97
86) p-Isopropyltoluene	12.54	119	266763	22.621	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	128903	21.414	ug/l	96
88) 1,4-Dichlorobenzene	12.65	146	121418	20.546	ug/l	96
89) n-Butylbenzene	12.92	91	242744	21.599	ug/l	96
90) Hexachloroethane	13.00	117	62437	19.187	ug/l	86
91) 1,2-Dichlorobenzene	13.02	146	124790	21.542	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.71	75	10332	18.686	ug/l	82

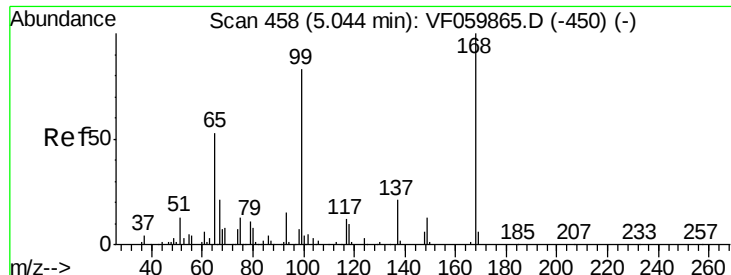
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	96157	21.863	ug/l	95
94) Hexachlorobutadiene	14.26	225	65337	21.029	ug/l	96
95) Naphthalene	14.52	128	156200	20.513	ug/l	98
96) 1,2,3-Trichlorobenzene	14.67	180	94535	21.766	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

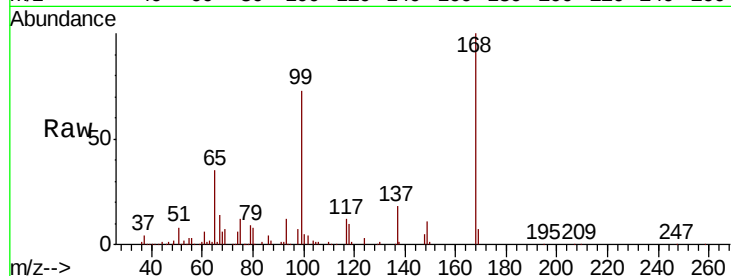
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 191328

Ion Ratio Lower Upper

168 100

99 73.3 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.05

60000

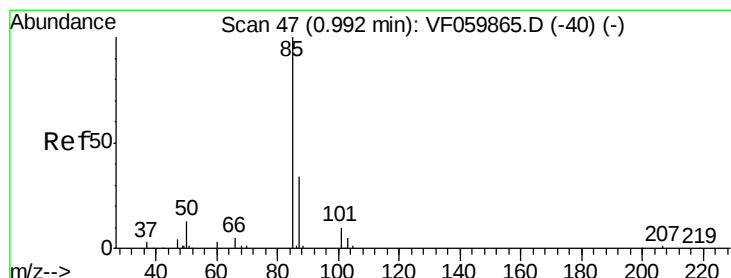
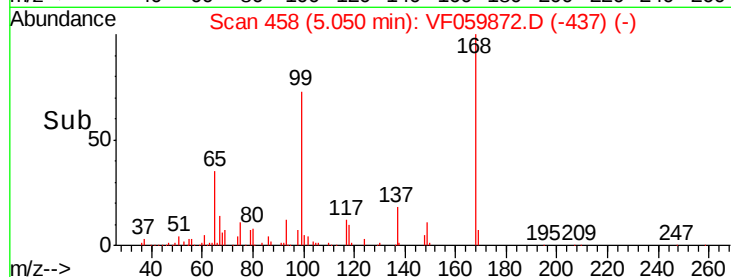
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 19.917 ug/l

RT: 0.99 min Scan# 46

Delta R.T. -0.00 min

Lab File: VF059872.D

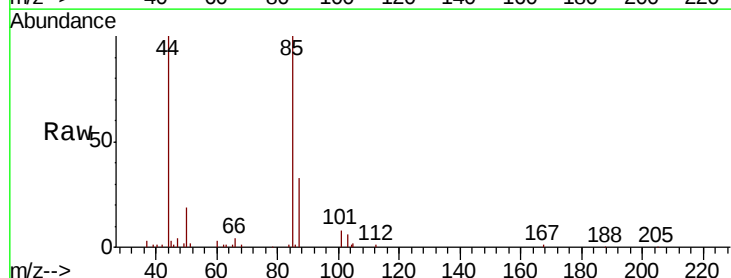
Acq: 4 Aug 2018 8:52

Tgt Ion: 85 Resp: 65109

Ion Ratio Lower Upper

85 100

87 33.2 16.9 50.7



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.99

25000

20000

15000

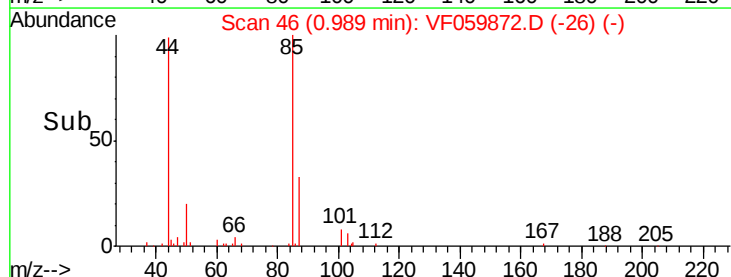
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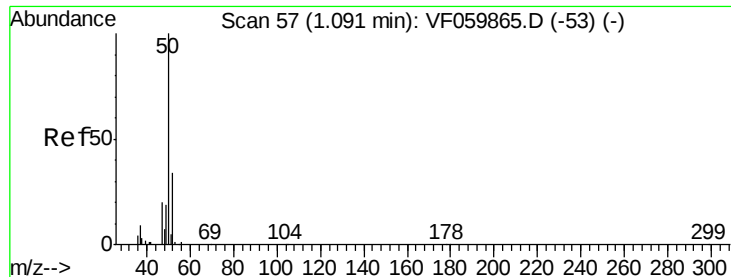
5000

0

Time-->

0.90 1.00 1.10 1.20

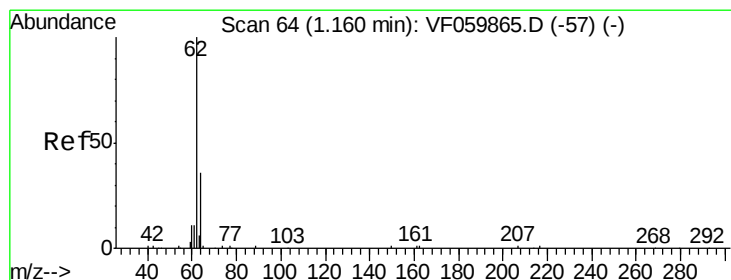
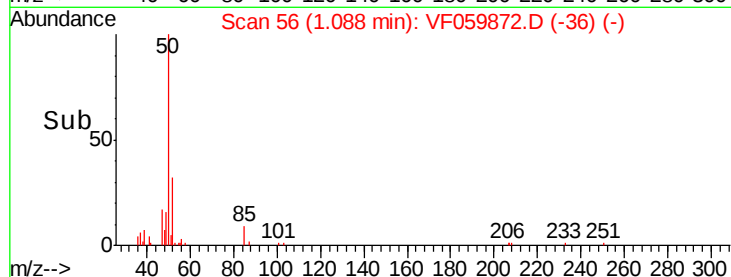
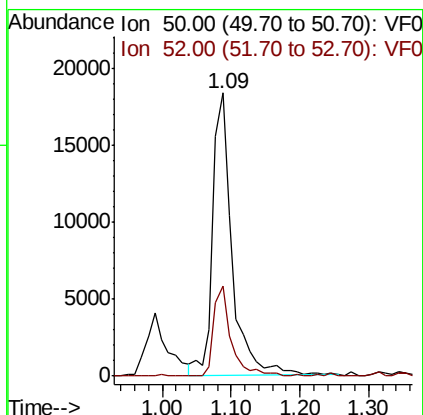
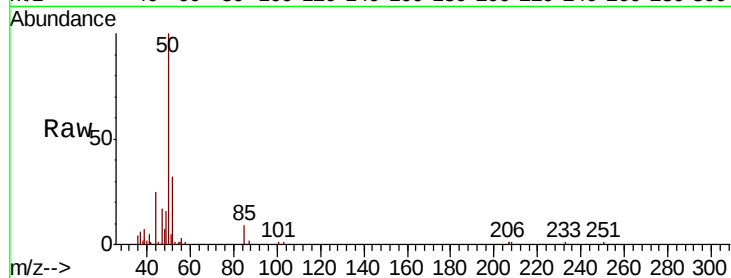




#3
Chloromethane
Concen: 23.490 ug/l
RT: 1.09 min Scan# 56
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

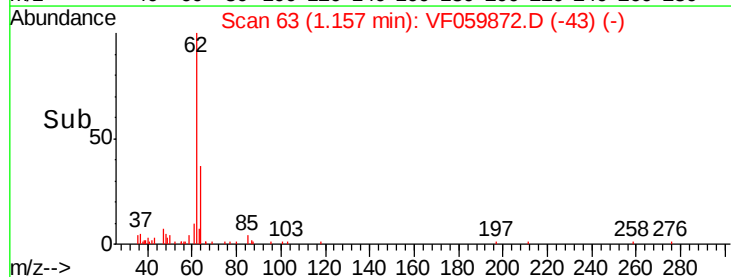
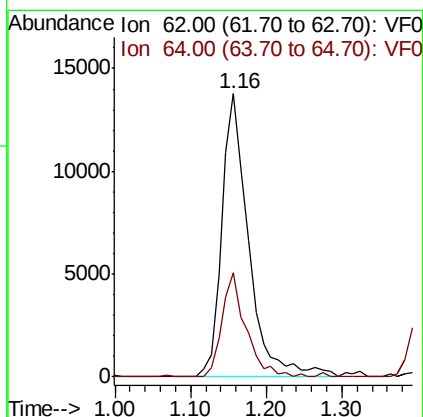
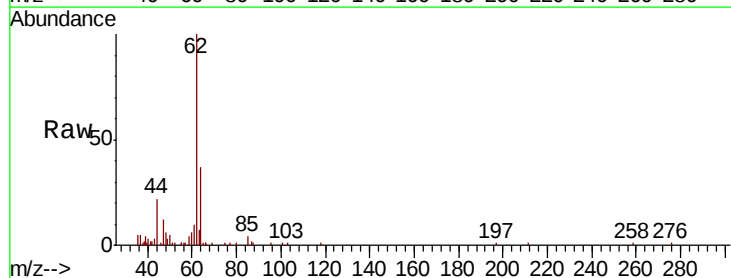
Instrument :
MSVOA_F
ClientSampleId :

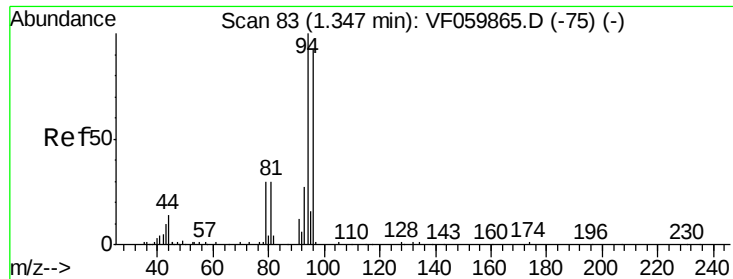
Tot Ion: 50 Resp: 35520
Ion Ratio Lower Upper
50 100
52 31.8 25.8 38.8



#4
Vinyl Chloride
Concen: 21.865 ug/l
RT: 1.16 min Scan# 63
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion: 62 Resp: 33871
Ion Ratio Lower Upper
62 100
64 36.9 28.5 42.7





#5

Bromomethane

Concen: 18.752 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

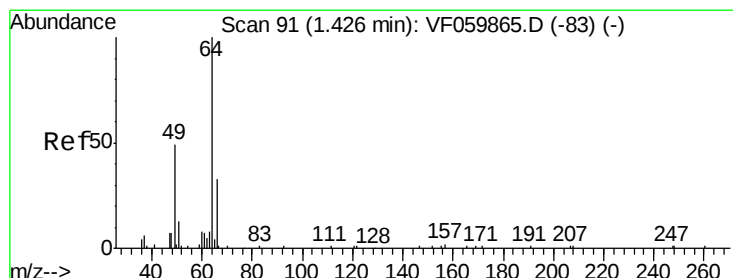
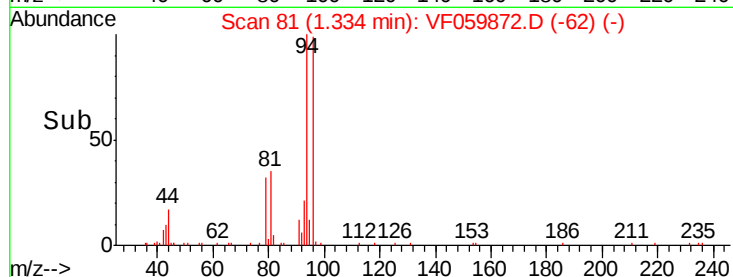
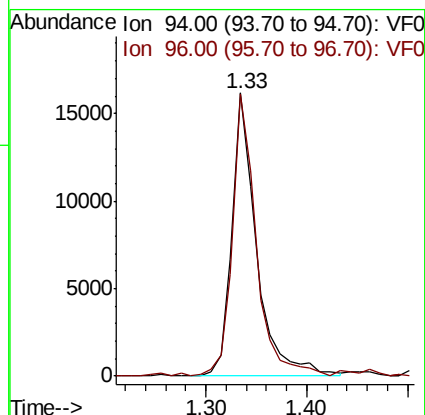
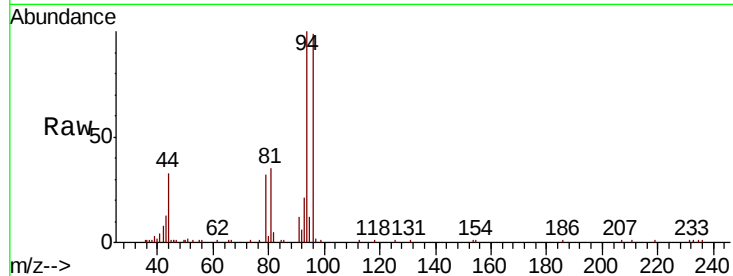
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 27419

Ion Ratio Lower Upper

94 100

96 99.5 73.8 110.8



#6

Chloroethane

Concen: 20.465 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.00 min

Lab File: VF059872.D

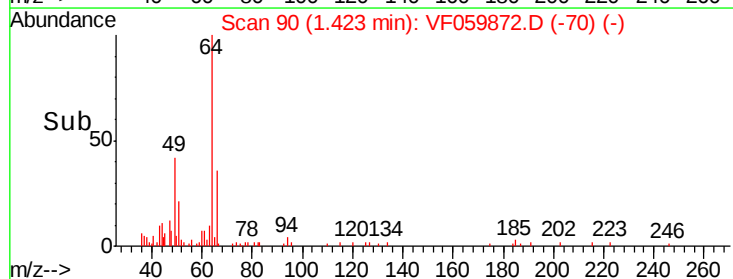
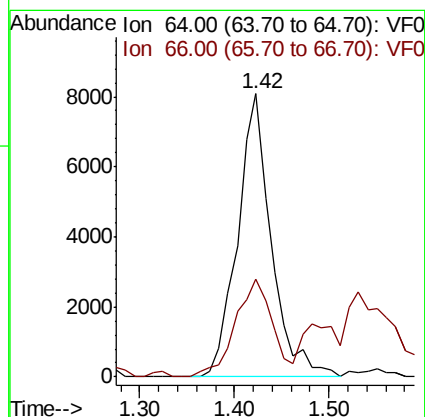
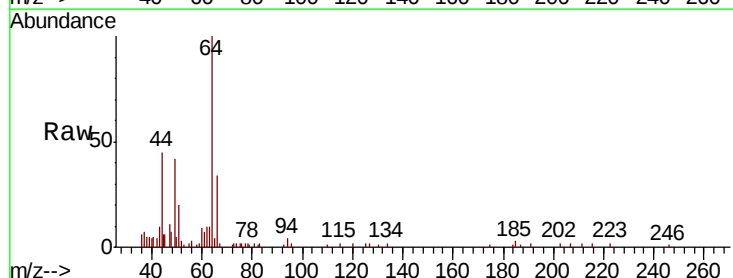
Acq: 4 Aug 2018 8:52

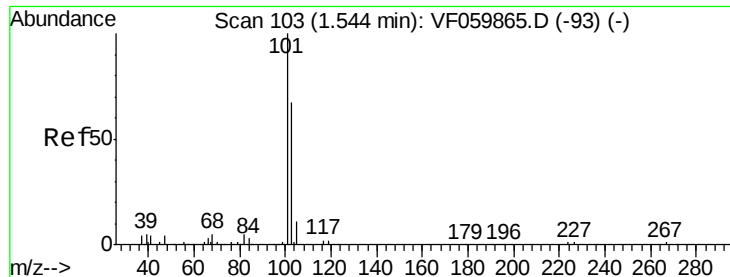
Tgt Ion: 64 Resp: 19912

Ion Ratio Lower Upper

64 100

66 34.5 26.9 40.3



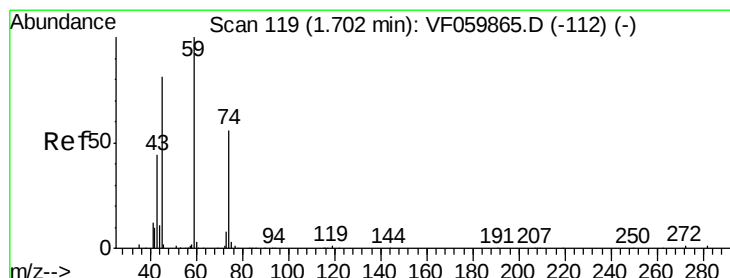
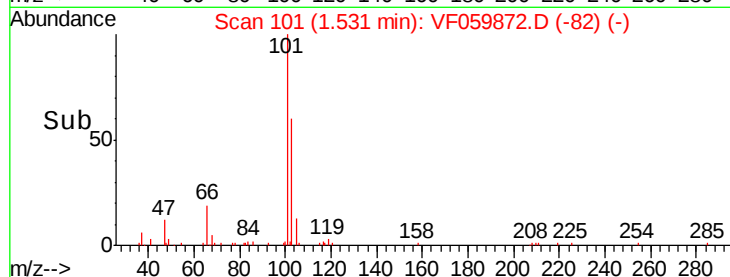
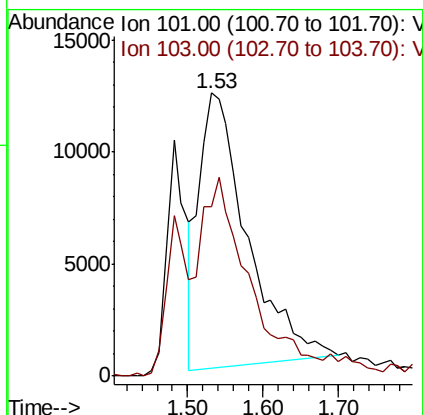
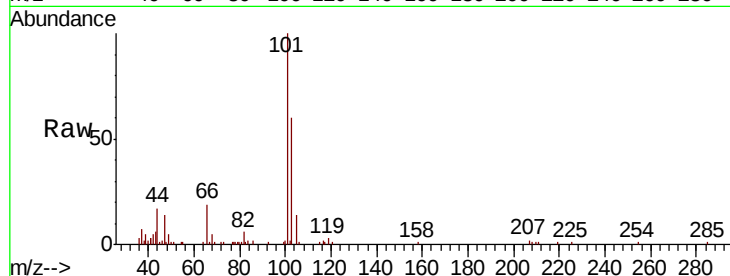


#7

Trichlorofluoromethane
Concen: 12.771 ug/l
RT: 1.53 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Instrument :
MSVOA_F
ClientSampled :

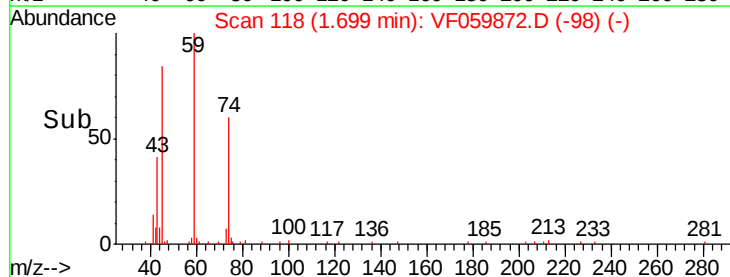
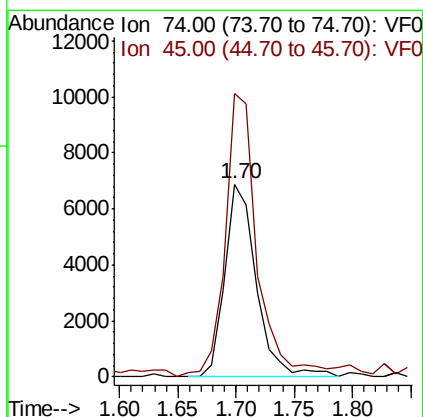
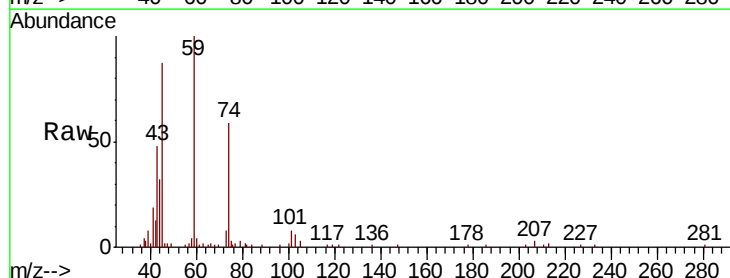
Tot Ion:101 Resp: 54146
Ion Ratio Lower Upper
101 100
103 59.7 53.6 80.4

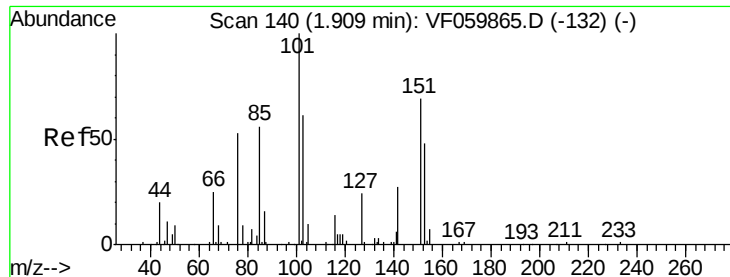


#8

Diethyl Ether
Concen: 19.218 ug/l
RT: 1.70 min Scan# 118
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion: 74 Resp: 12930
Ion Ratio Lower Upper
74 100
45 146.6 73.6 220.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.614 ug/l

RT: 1.91 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

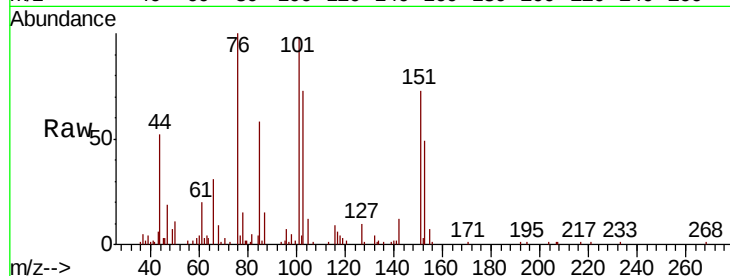
Tot Ion:101 Resp: 48231

Ion Ratio Lower Upper

101 100

85 59.1 44.5 66.7

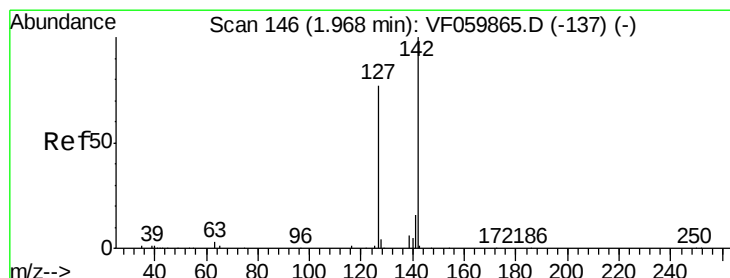
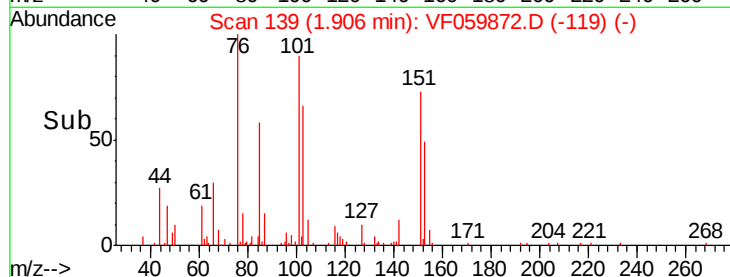
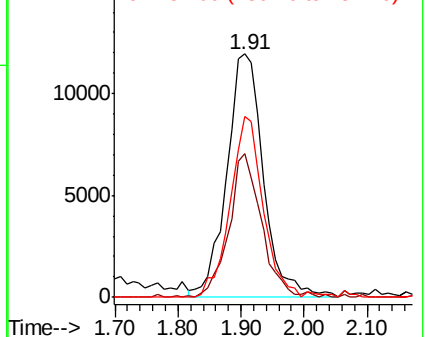
151 74.4 53.8 80.8



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: 20.437 ug/l

RT: 1.97 min Scan# 145

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

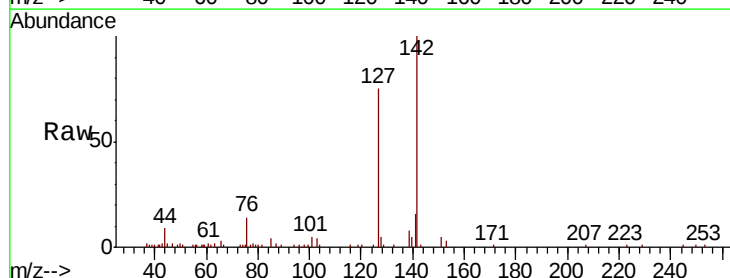
Tgt Ion:142 Resp: 73459

Ion Ratio Lower Upper

142 100

127 75.3 61.5 92.3

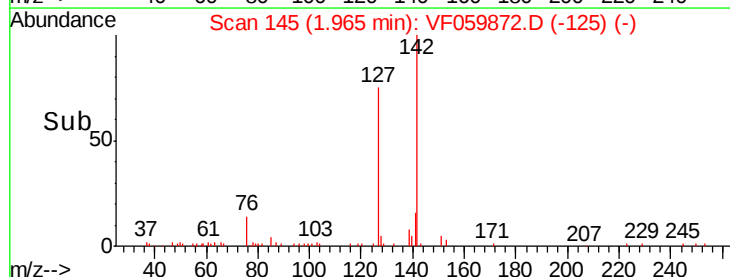
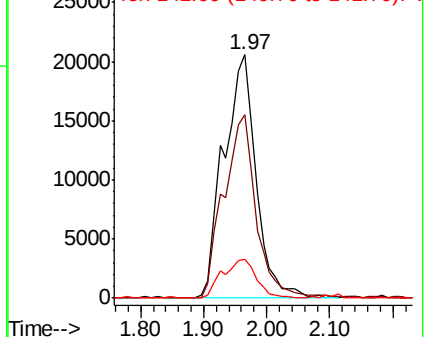
141 16.0 13.0 19.4

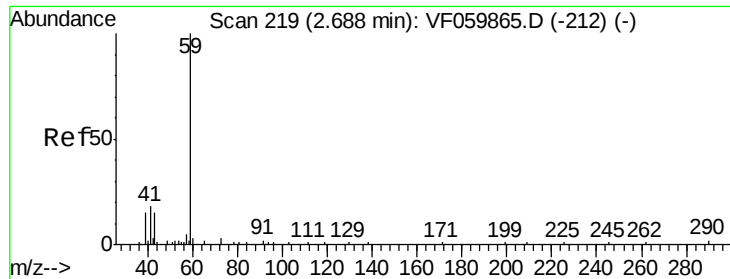


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



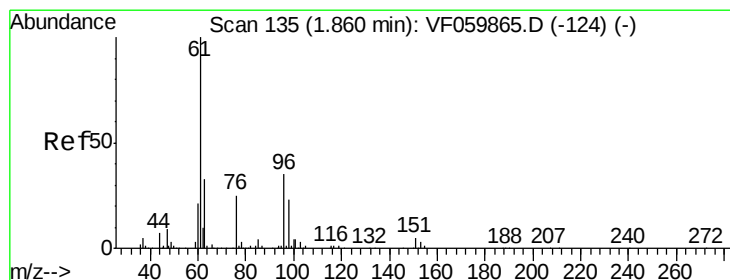
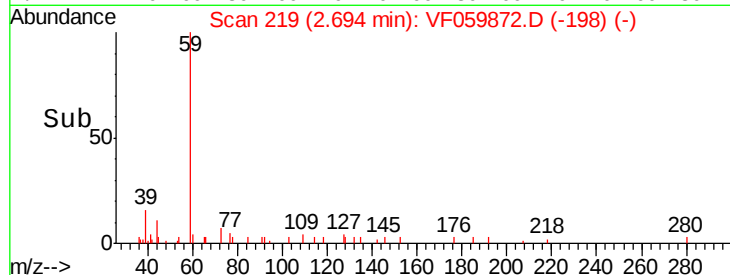
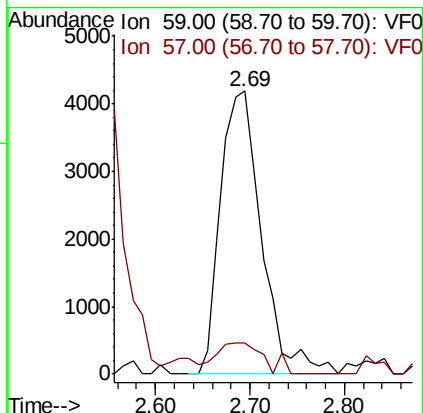
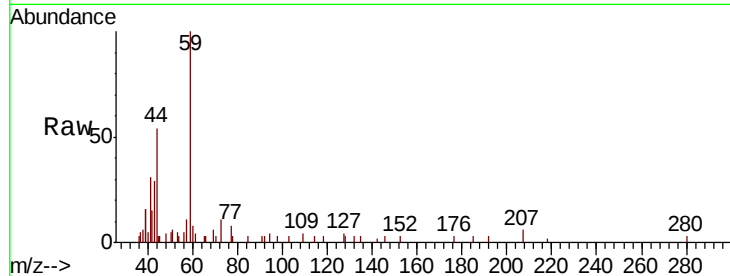


#11

Tert butyl alcohol
 Concen: 90.805 ug/l
 RT: 2.69 min Scan# 219
 Delta R.T. 0.01 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Instrument :
 MSVOA_F
 ClientSampleId :

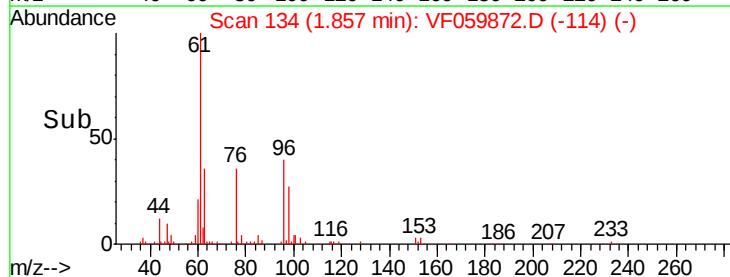
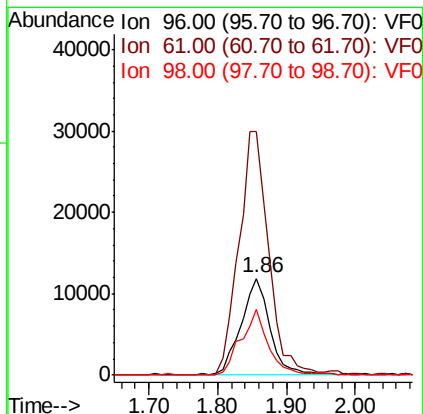
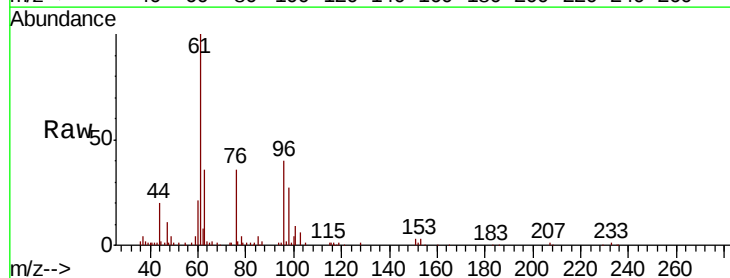
Tot Ion: 59 Resp: 12634
 Ion Ratio Lower Upper
 59 100
 57 11.2 7.6 11.4

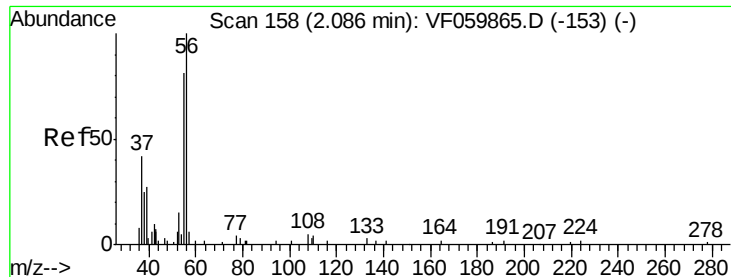


#12

1,1-Dichloroethene
 Concen: 20.316 ug/l
 RT: 1.86 min Scan# 134
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion: 96 Resp: 34722
 Ion Ratio Lower Upper
 96 100
 61 251.4 230.2 345.2
 98 68.1 52.7 79.1





#13

Acrolein

Concen: 65.950 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

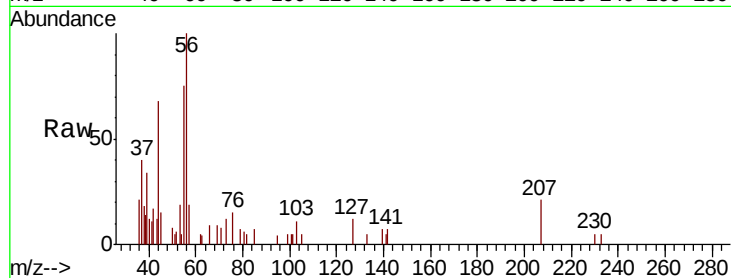
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 5499

Ion Ratio Lower Upper

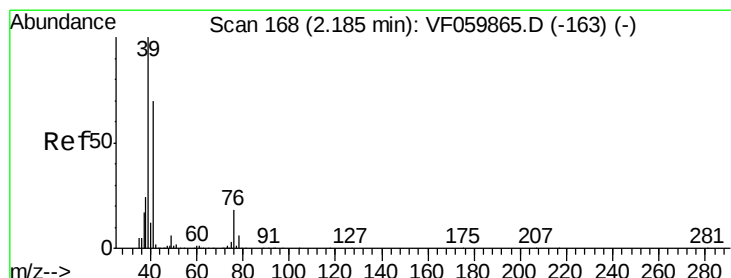
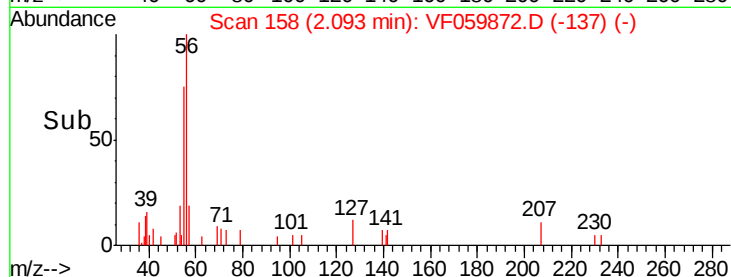
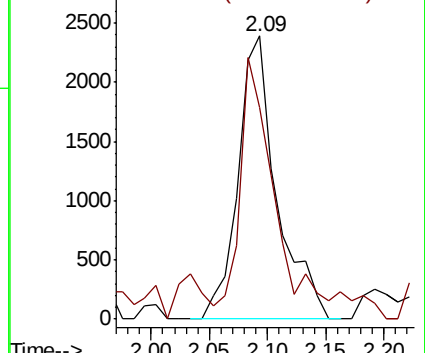
56 100

55 74.6 64.6 96.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 20.173 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

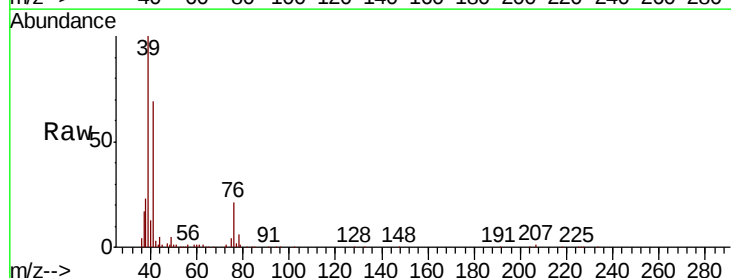
Tgt Ion: 41 Resp: 57481

Ion Ratio Lower Upper

41 100

39 144.2 114.6 171.8

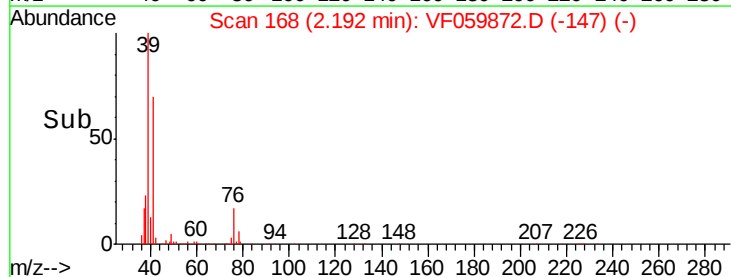
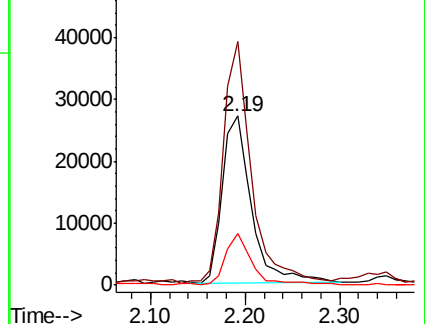
76 30.9 21.0 31.4

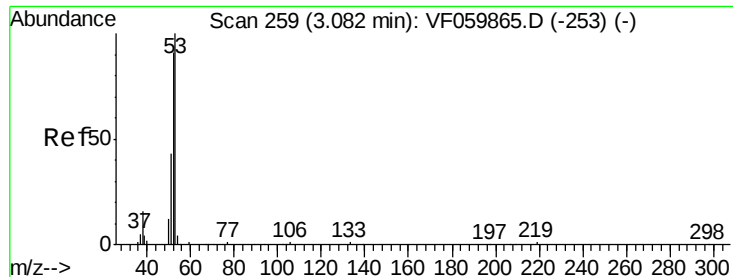


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 99.944 ug/l

RT: 3.07 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

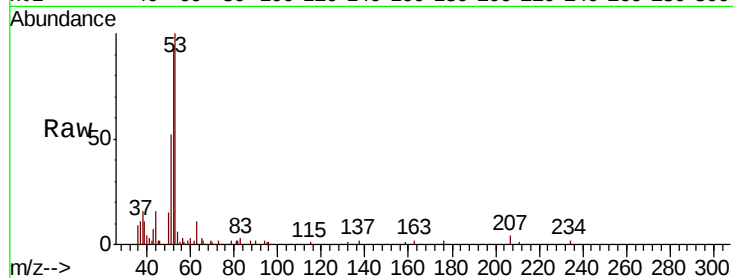
Tot Ion: 53 Resp: 25481

Ion Ratio Lower Upper

53 100

52 92.6 72.9 109.3

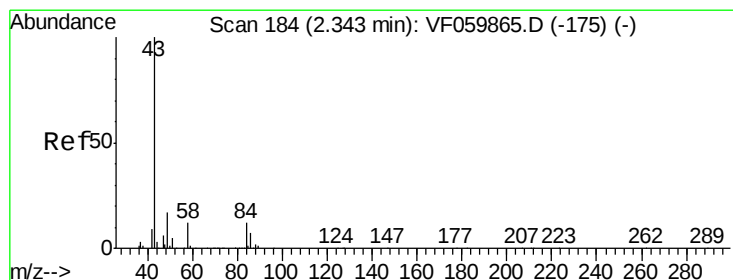
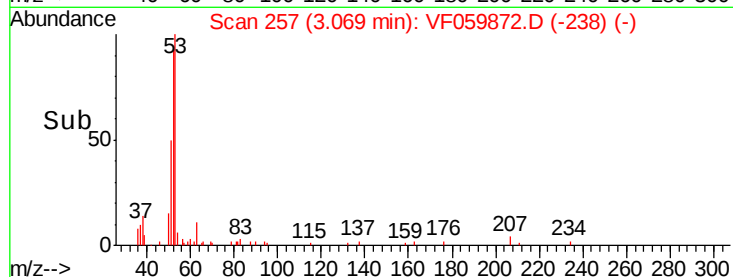
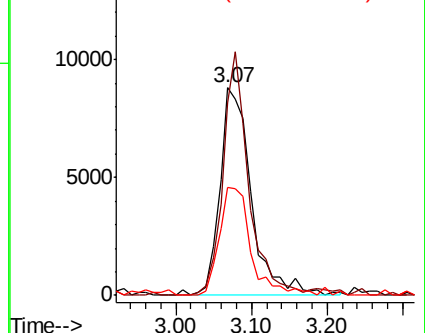
51 51.7 34.5 51.7#



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: 101.117 ug/l

RT: 2.34 min Scan# 183

Delta R.T. -0.00 min

Lab File: VF059872.D

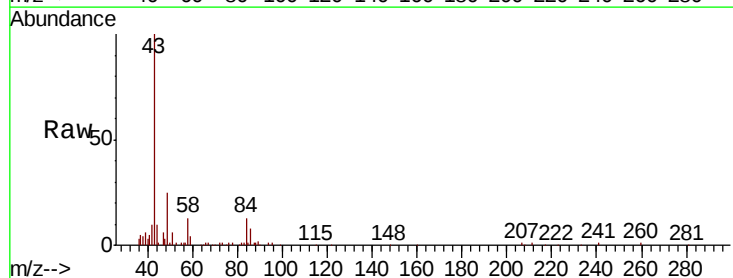
Acq: 4 Aug 2018 8:52

Tgt Ion: 43 Resp: 64389

Ion Ratio Lower Upper

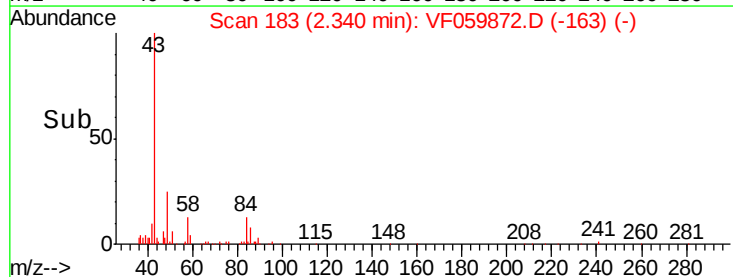
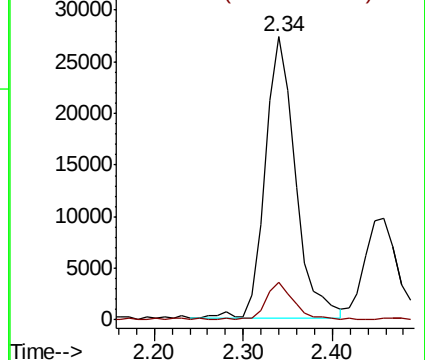
43 100

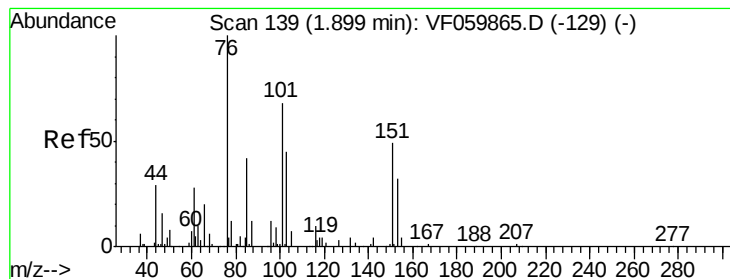
58 13.2 9.4 14.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 15.435 ug/l

RT: 1.89 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

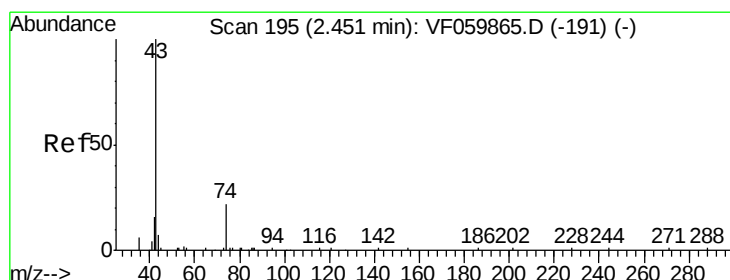
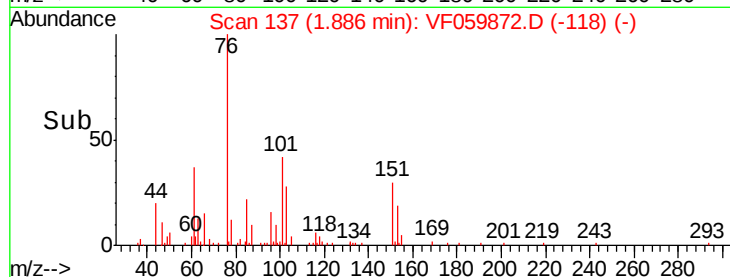
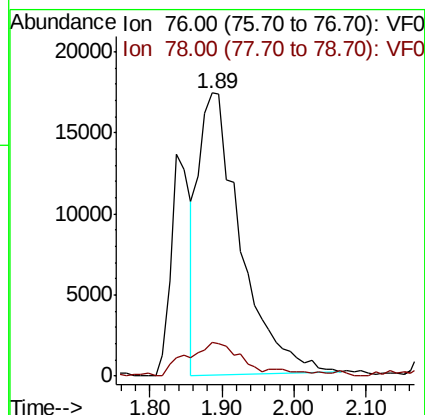
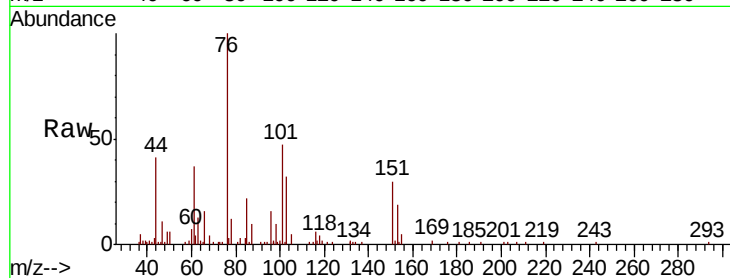
ClientSampleId :

Tot Ion: 76 Resp: 70420

Ion Ratio Lower Upper

76 100

78 11.8 9.3 13.9



#18

Methyl Acetate

Concen: 21.354 ug/l

RT: 2.46 min Scan# 195

Delta R.T. 0.01 min

Lab File: VF059872.D

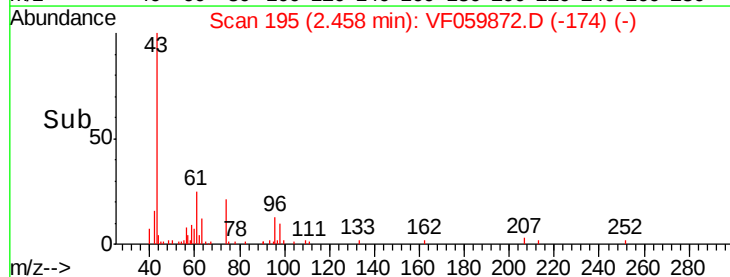
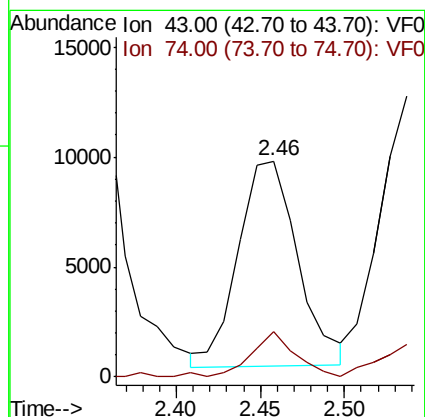
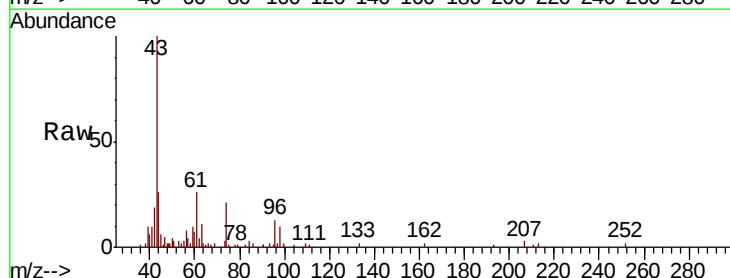
Acq: 4 Aug 2018 8:52

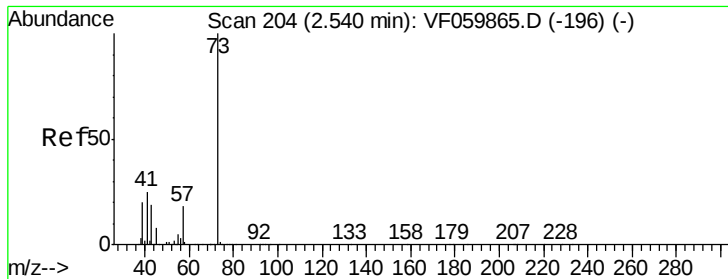
Tgt Ion: 43 Resp: 22939

Ion Ratio Lower Upper

43 100

74 20.9 16.3 24.5



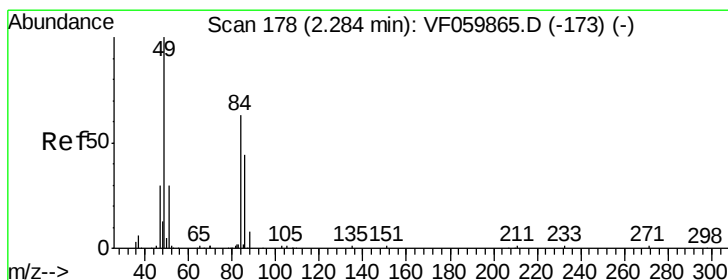
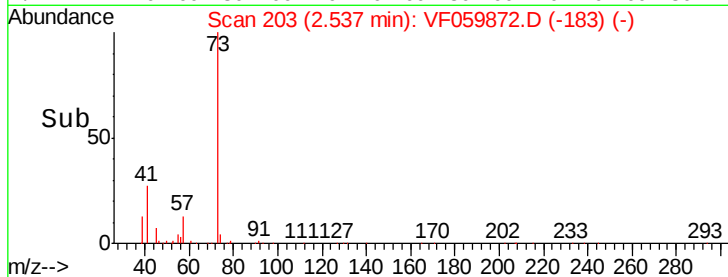
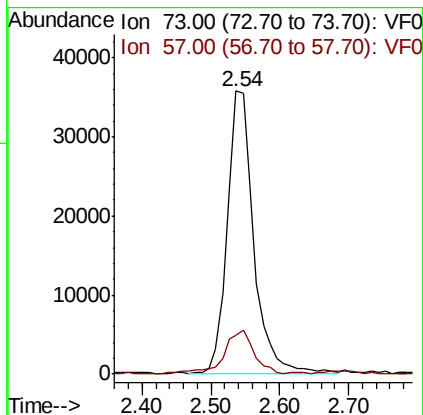
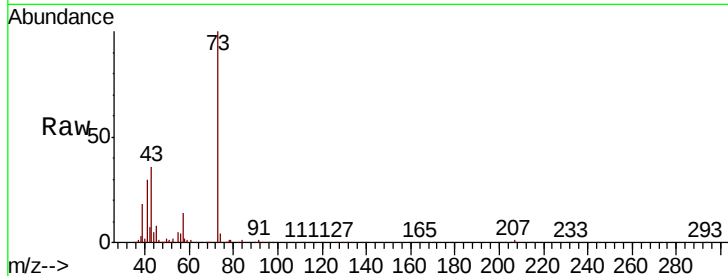


#19

Methyl tert-butyl Ether
 Concen: 19.502 ug/l
 RT: 2.54 min Scan# 203
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Instrument :
 MSVOA_F
 ClientSampleId :

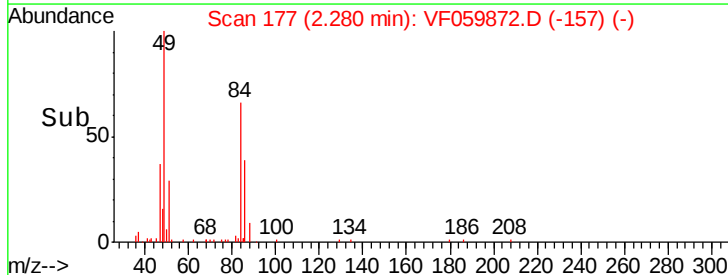
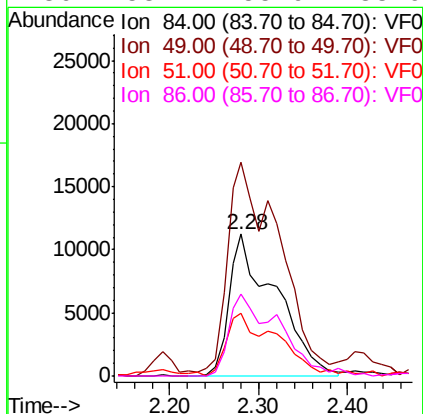
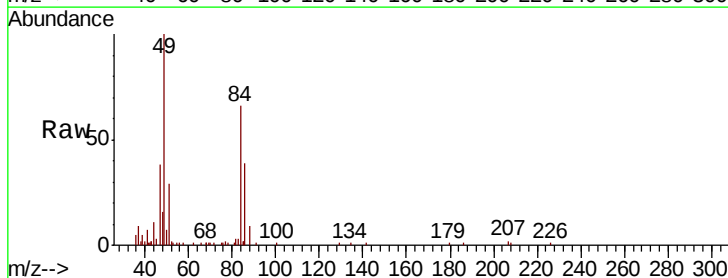
Tot Ion: 73 Resp: 94365
 Ion Ratio Lower Upper
 73 100
 57 13.6 14.3 21.5#

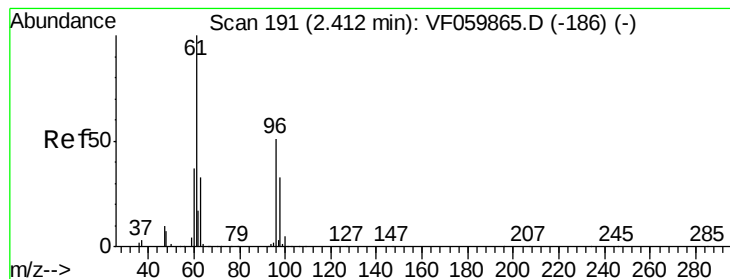


#20

Methylene Chloride
 Concen: 22.380 ug/l
 RT: 2.28 min Scan# 177
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion: 84 Resp: 40713
 Ion Ratio Lower Upper
 84 100
 49 150.9 128.7 193.1
 51 44.5 39.3 58.9
 86 58.2 55.9 83.9





#21

trans-1,2-Dichloroethene

Concen: 21.518 ug/l

RT: 2.41 min Scan# 190

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

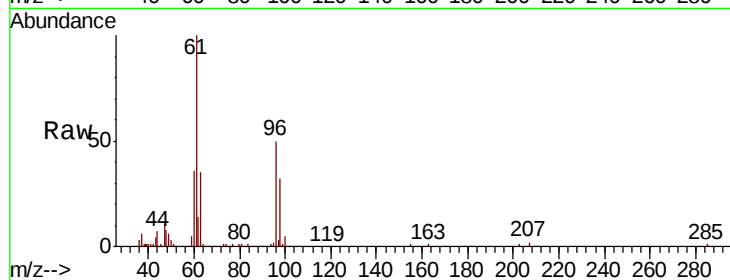
Tot Ion: 96 Resp: 36531

Ion Ratio Lower Upper

96 100

61 198.9 158.2 237.4

98 63.6 52.0 78.0

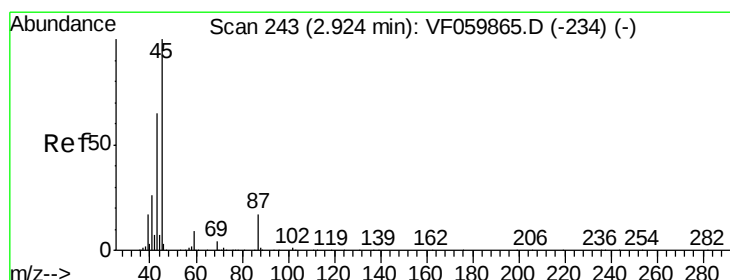
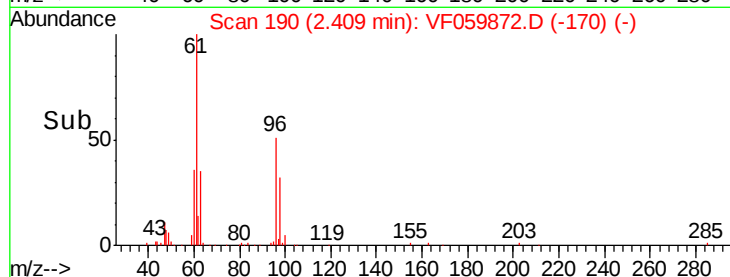
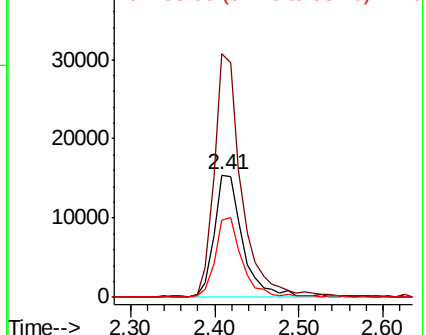


Abundance

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: 20.595 ug/l

RT: 2.93 min Scan# 243

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Tgt Ion: 45 Resp: 112898

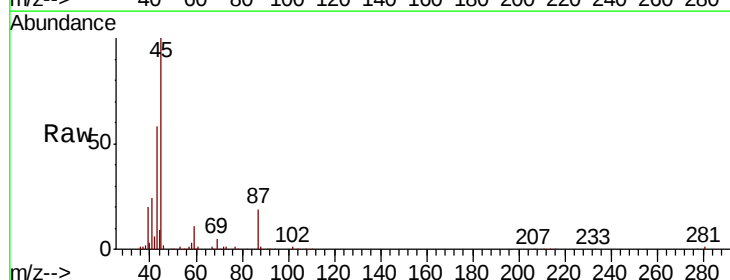
Ion Ratio Lower Upper

45 100

43 58.2 52.1 78.1

87 18.9 13.8 20.8

59 10.7 7.5 11.3



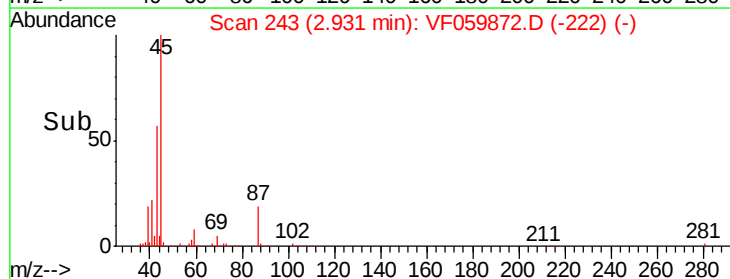
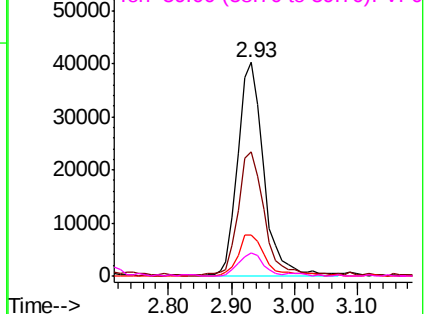
Abundance

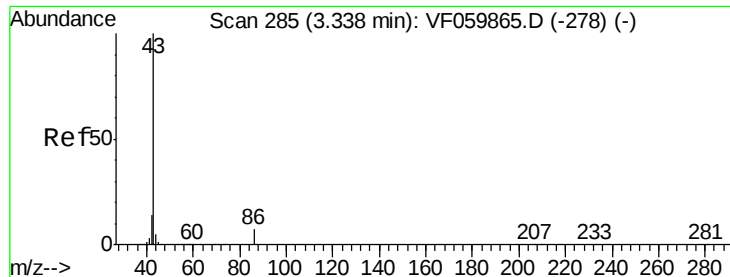
Ion 45.00 (44.70 to 45.70): VF0

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: 107.495 ug/l

RT: 3.34 min Scan# 284

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

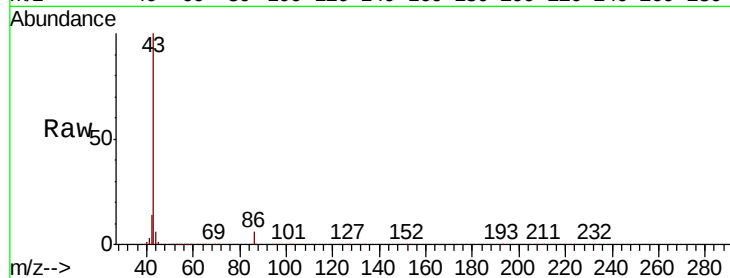
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 285252

Ion Ratio Lower Upper

43 100

86 5.8 5.6 8.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.34

120000

100000

80000

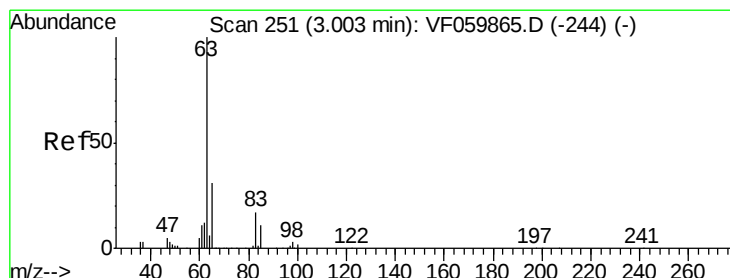
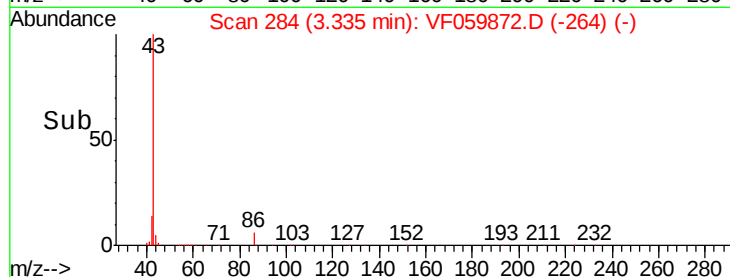
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 19.401 ug/l

RT: 3.00 min Scan# 250

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

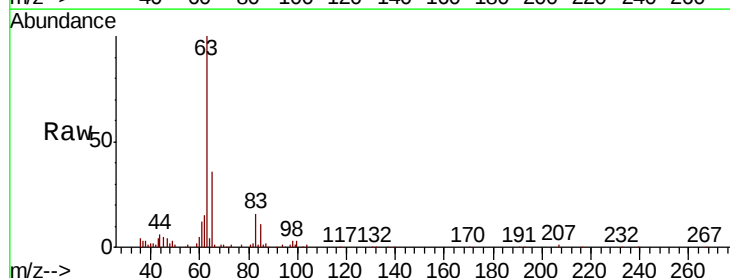
Tgt Ion: 63 Resp: 77450

Ion Ratio Lower Upper

63 100

98 2.8 1.9 5.7

100 3.1 1.1 3.5



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

3.00

40000

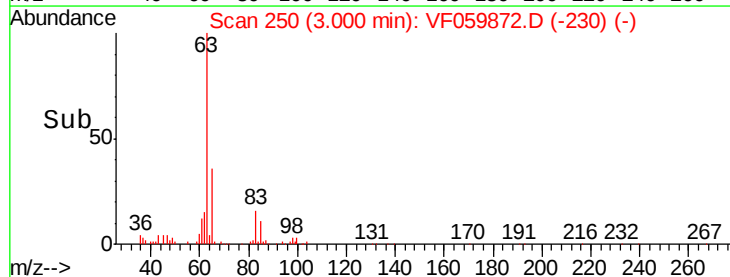
30000

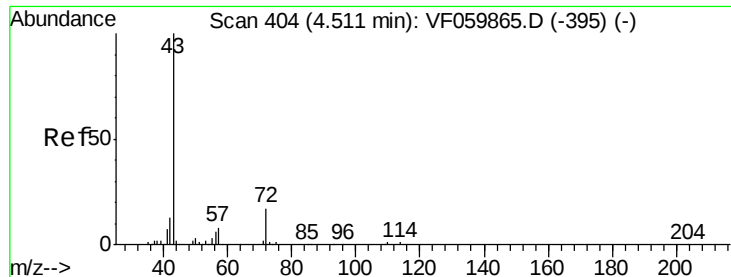
20000

10000

0

Time-->





#25

2-Butanone

Concen: 103.888 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

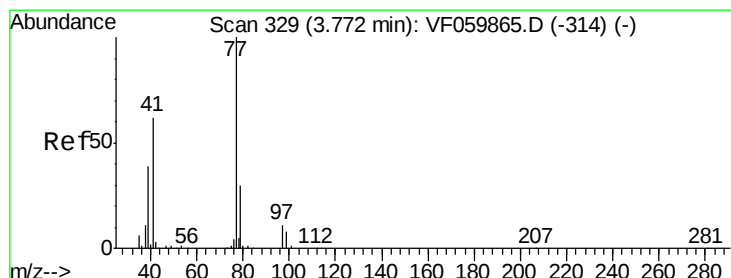
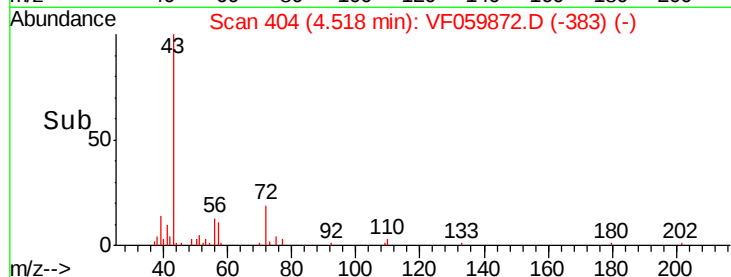
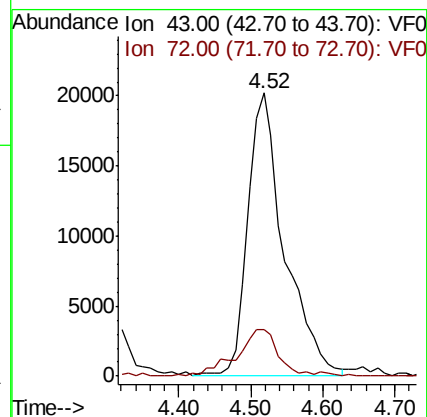
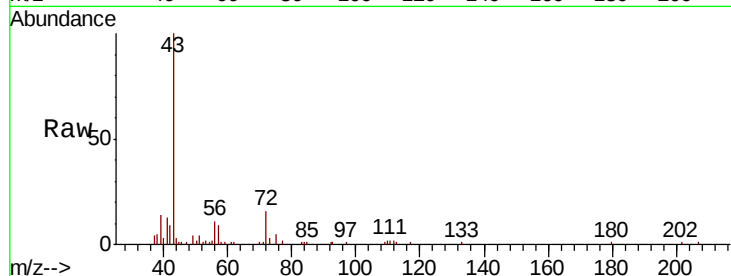
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 71932

Ion Ratio Lower Upper

43 100

72 16.5 13.9 20.9



#26

2,2-Dichloropropane

Concen: 21.618 ug/l

RT: 3.77 min Scan# 328

Delta R.T. -0.00 min

Lab File: VF059872.D

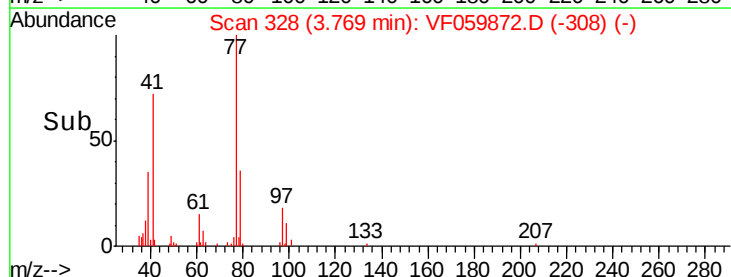
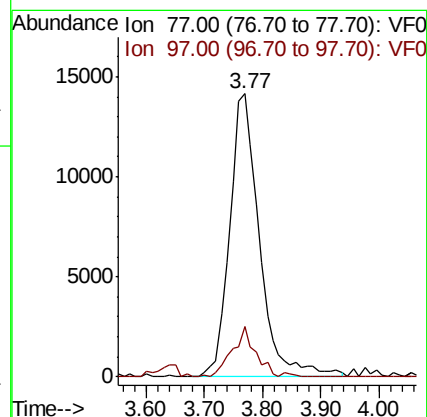
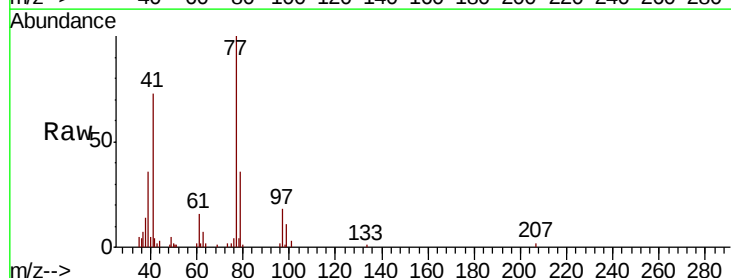
Acq: 4 Aug 2018 8:52

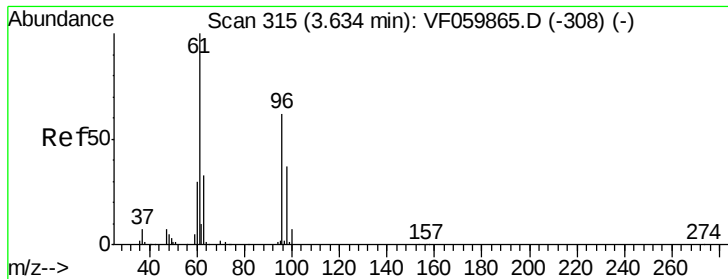
Tgt Ion: 77 Resp: 50238

Ion Ratio Lower Upper

77 100

97 17.9 6.8 20.3



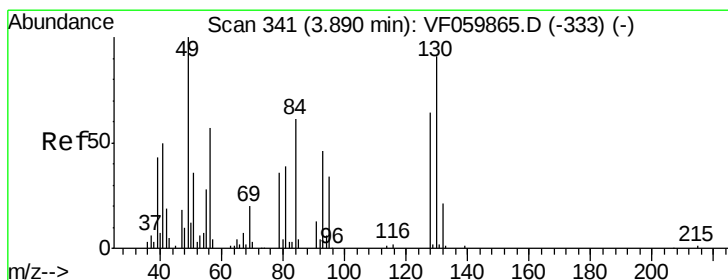
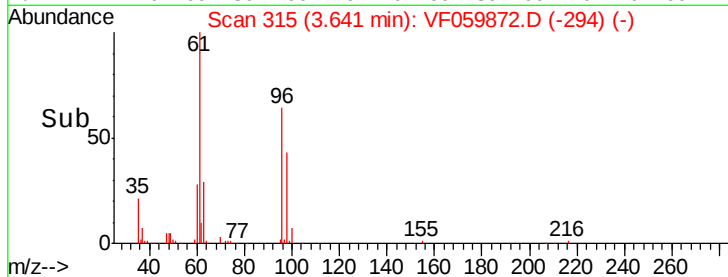
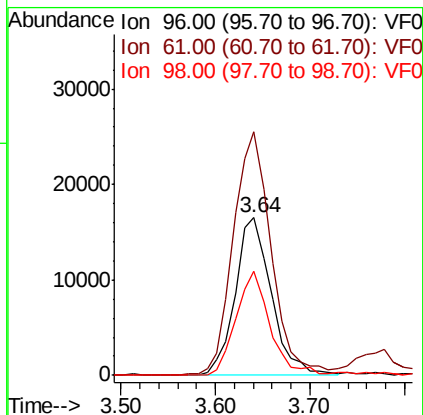
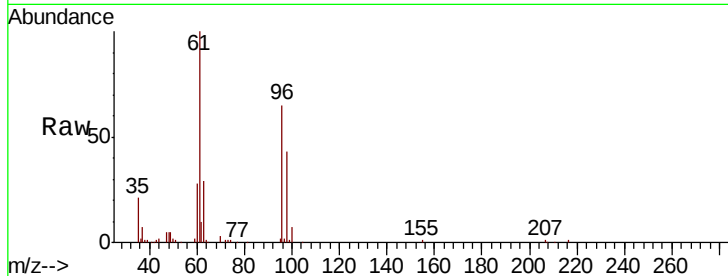


#27

cis-1,2-Dichloroethene
 Concen: 23.023 ug/l
 RT: 3.64 min Scan# 315
 Delta R.T. 0.01 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Instrument :
 MSVOA_F
 ClientSampleId :

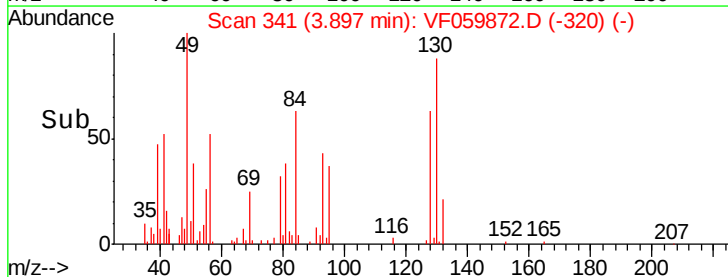
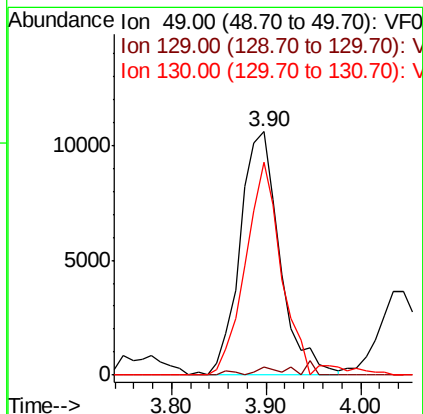
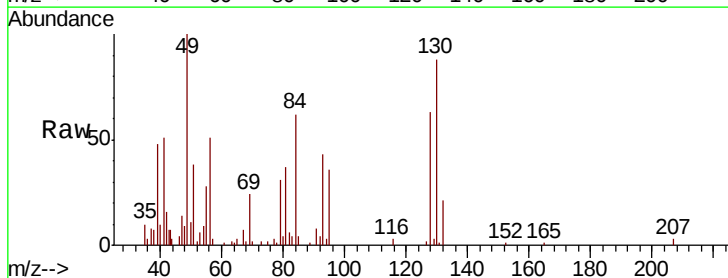
Tot Ion	96	Resp	43950
Ion	Ratio	Lower	Upper
96	100		
61	154.4	0.0	320.8
98	65.9	0.0	117.6

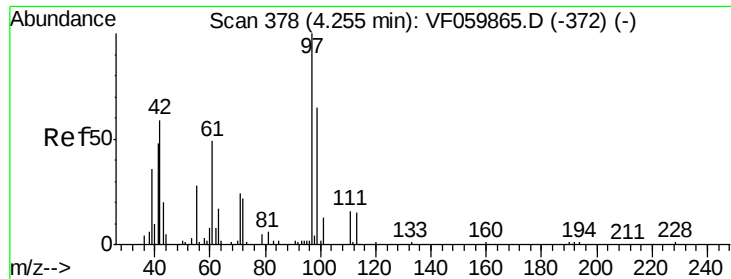


#28

Bromochloromethane
 Concen: 21.978 ug/l
 RT: 3.90 min Scan# 341
 Delta R.T. 0.01 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion	49	Resp	30981
Ion	Ratio	Lower	Upper
49	100		
129	3.1	0.0	4.6
130	87.6	73.8	110.8

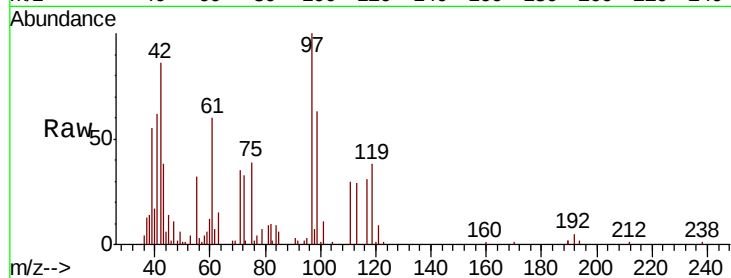




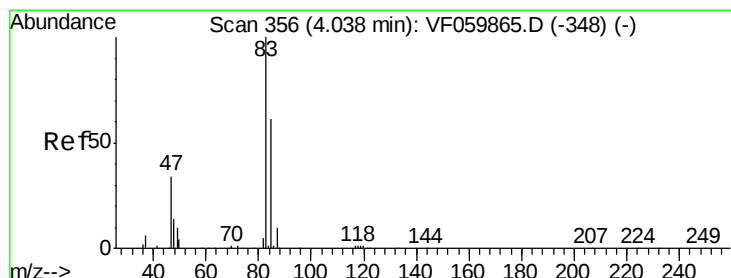
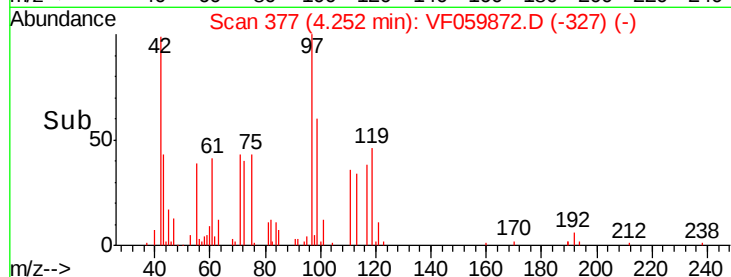
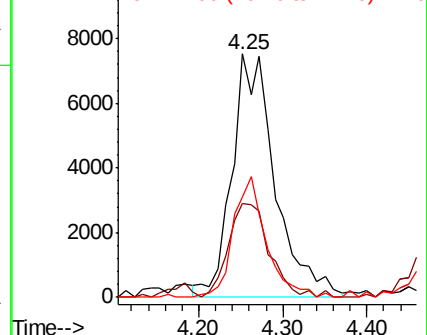
#29
Tetrahydrofuran
Concen: 105.367 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 42 Resp: 26858
Ion Ratio Lower Upper
42 100
72 36.7 29.3 43.9
71 37.8 30.0 45.0

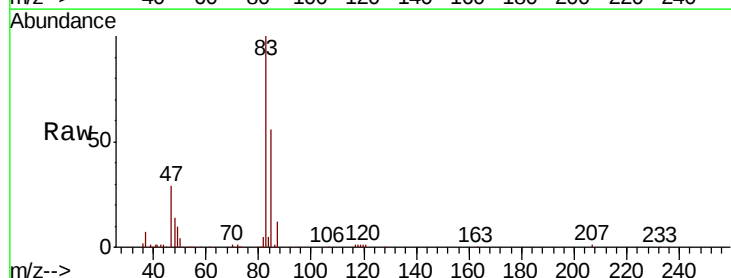


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

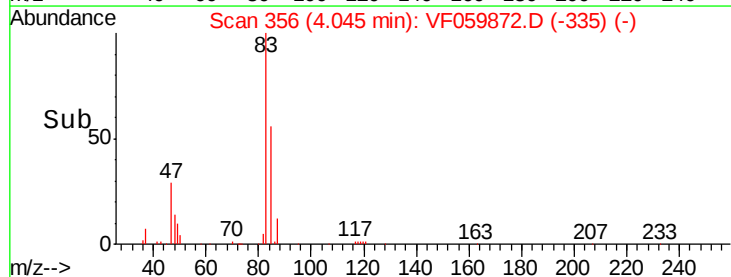
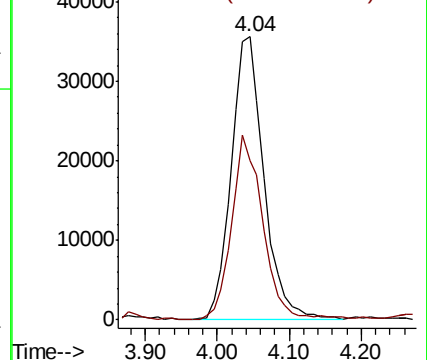


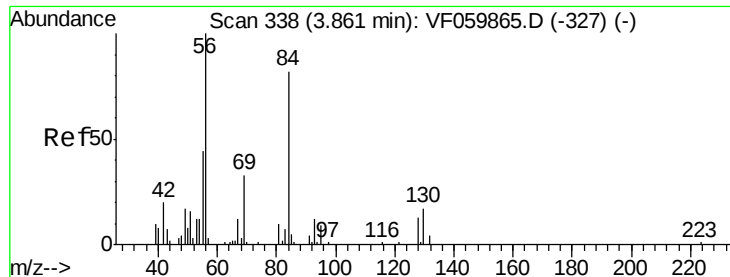
#30
Chloroform
Concen: 20.790 ug/l
RT: 4.04 min Scan# 356
Delta R.T. 0.01 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion: 83 Resp: 112279
Ion Ratio Lower Upper
83 100
85 56.4 49.3 73.9



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

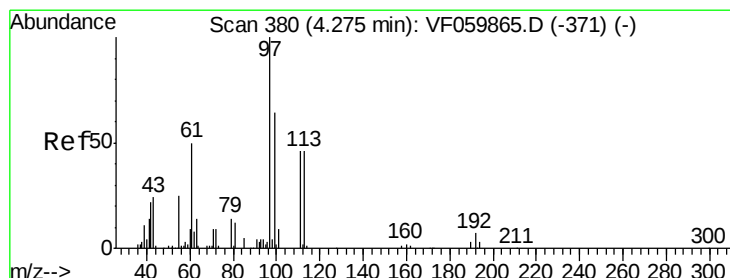
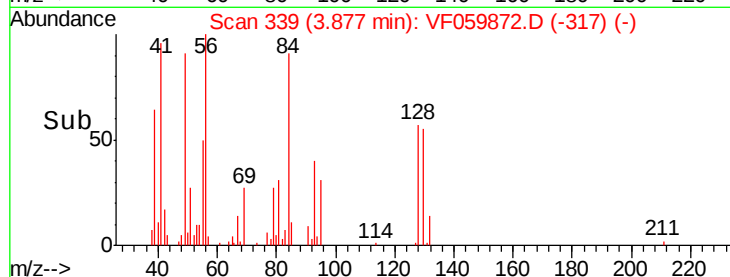
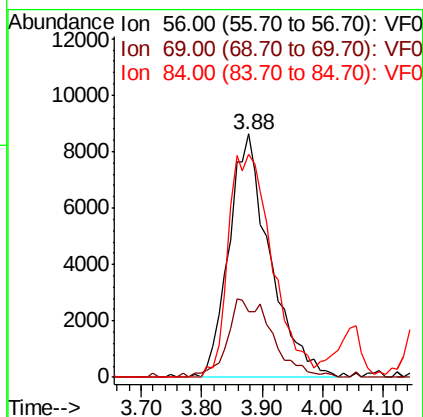
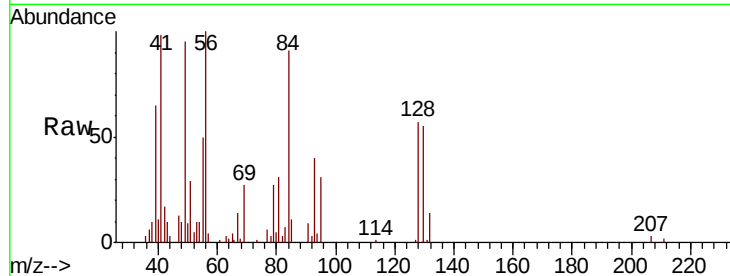




#31
Cyclohexane
Concen: 20.526 ug/l
RT: 3.88 min Scan# 339
Delta R.T. 0.02 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

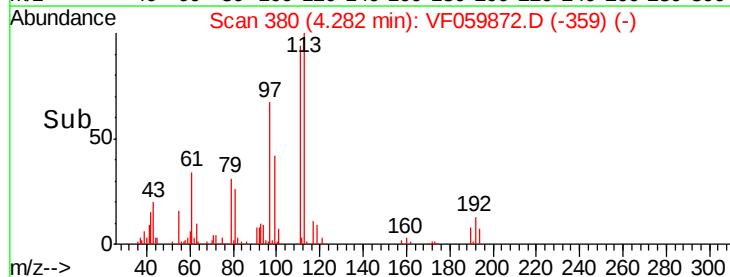
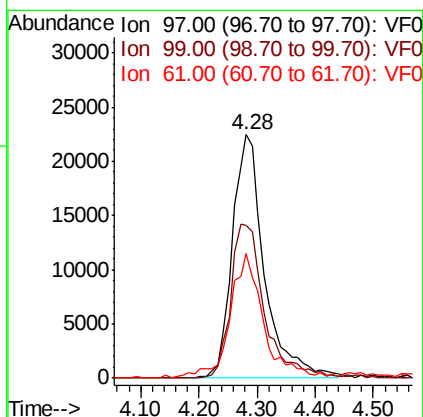
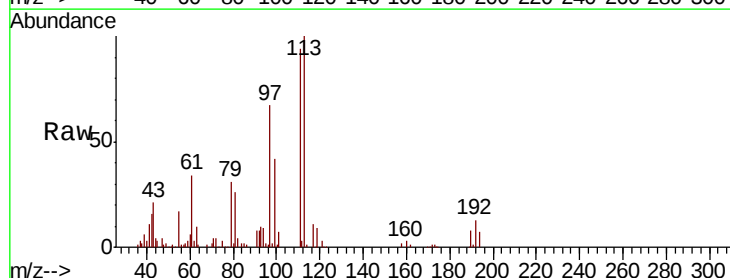
Instrument :
MSVOA_F
ClientSampled :

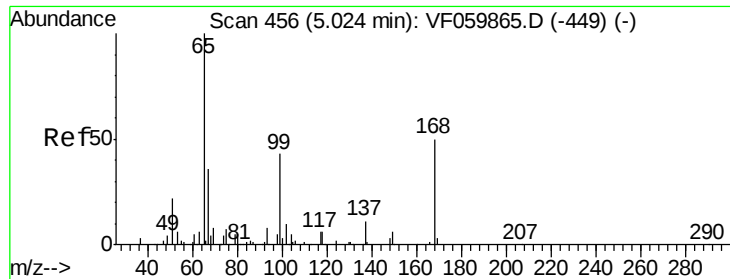
Tot Ion: 56 Resp: 40556
Ion Ratio Lower Upper
56 100
69 27.0 26.7 40.1
84 91.4 65.9 98.9



#32
1,1,1-Trichloroethane
Concen: 19.908 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.01 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion: 97 Resp: 86013
Ion Ratio Lower Upper
97 100
99 62.6 51.4 77.2
61 51.4 40.8 61.2

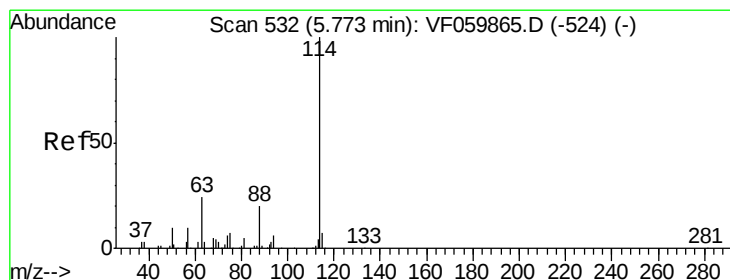
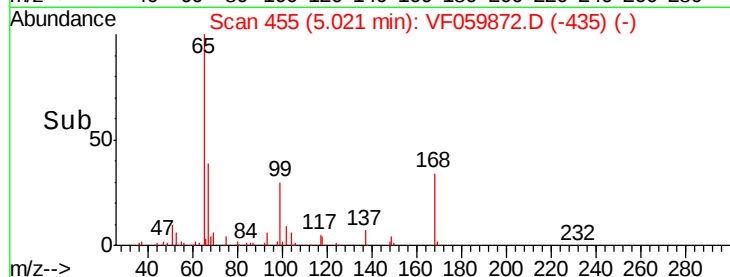
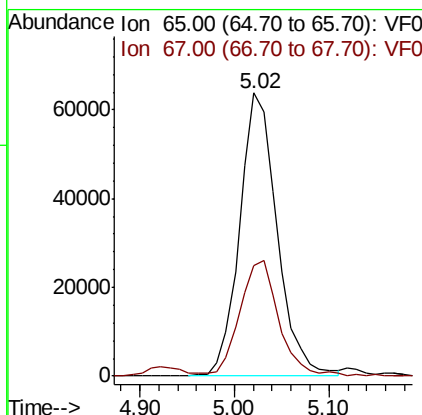
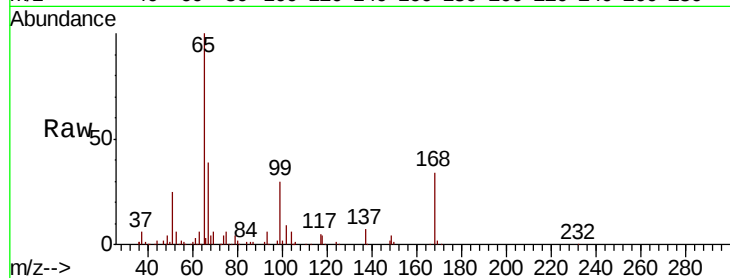




#33
 1,2-Dichloroethane-d4
 Concen: 50.877 ug/l
 RT: 5.02 min Scan# 455
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

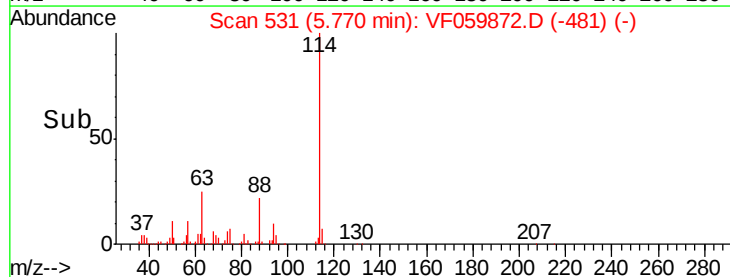
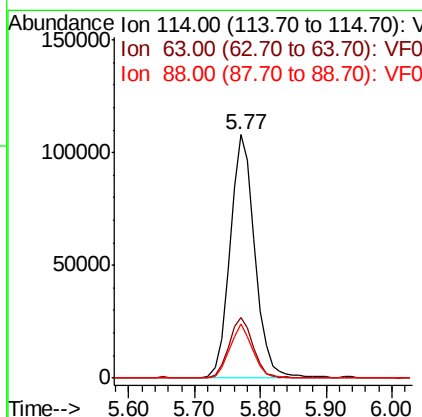
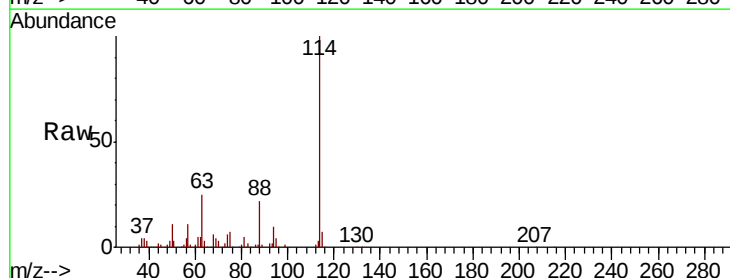
Instrument :
 MSVOA_F
 ClientSampleId :

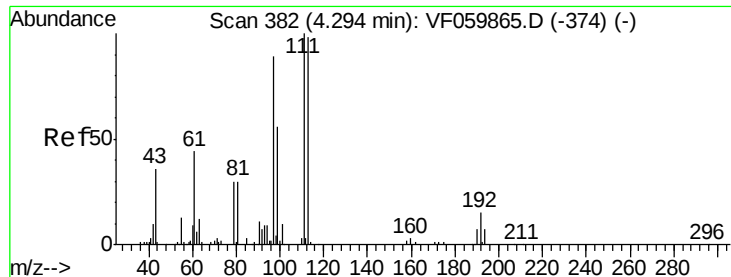
Tot Ion: 65 Resp: 175492
 Ion Ratio Lower Upper
 65 100
 67 38.9 0.0 77.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion: 114 Resp: 285109
 Ion Ratio Lower Upper
 114 100
 63 24.9 0.0 48.0
 88 22.0 0.0 39.4

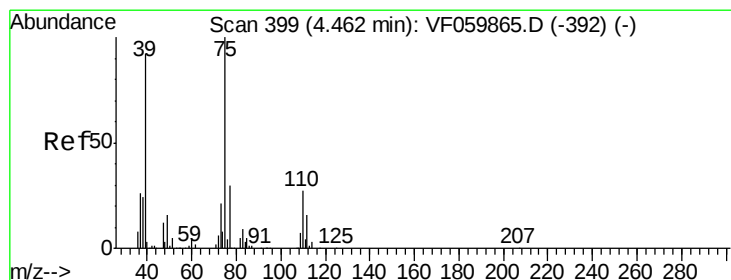
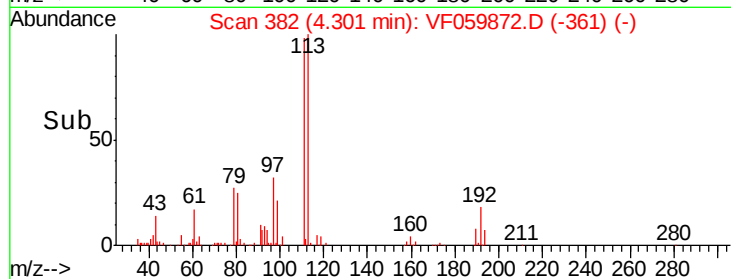
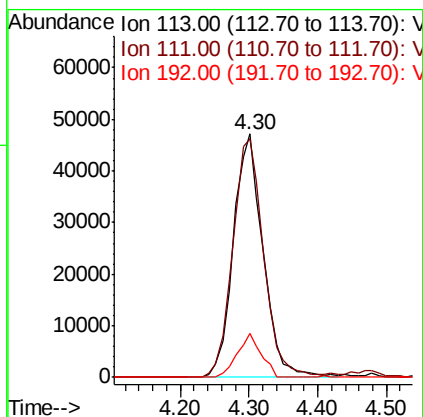
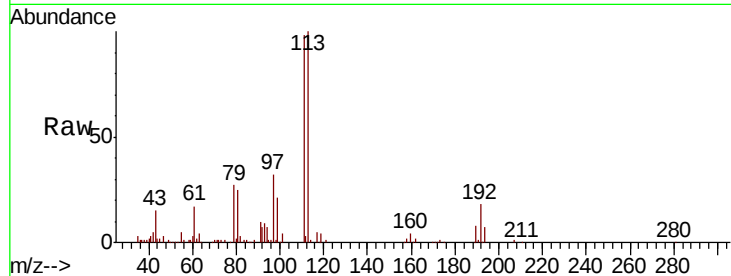




#35
 Dibromofluoromethane
 Concen: 49.618 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

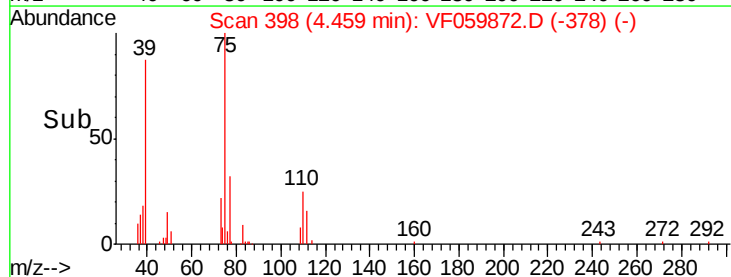
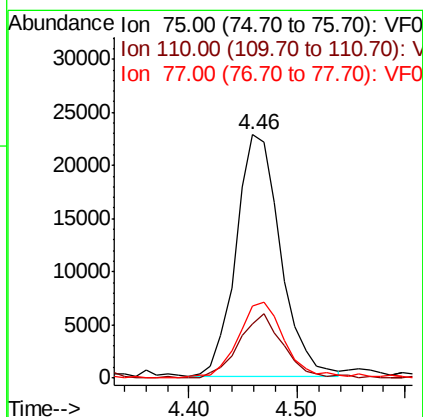
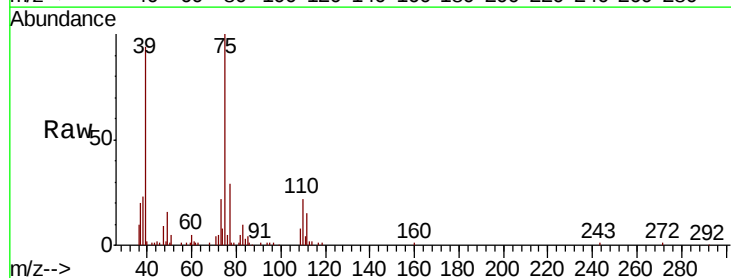
Instrument :
 MSVOA_F
 ClientSampleId :

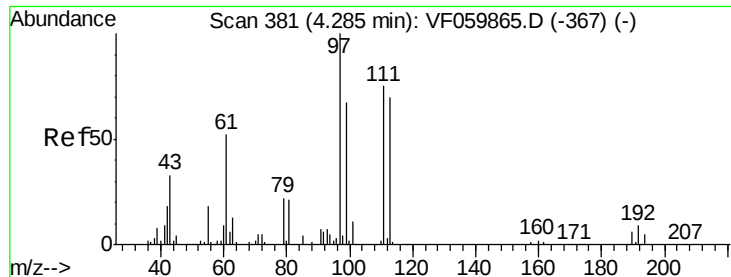
Tot Ion	Ratio	Lower	Upper
113	100		
111	98.0	81.8	122.8
192	18.1	12.4	18.6



#36
 1,1-Dichloropropene
 Concen: 19.703 ug/l
 RT: 4.46 min Scan# 398
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	22.4	13.6	40.7
77	29.5	23.7	35.5

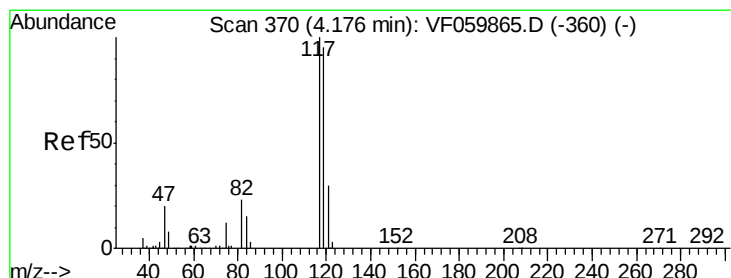
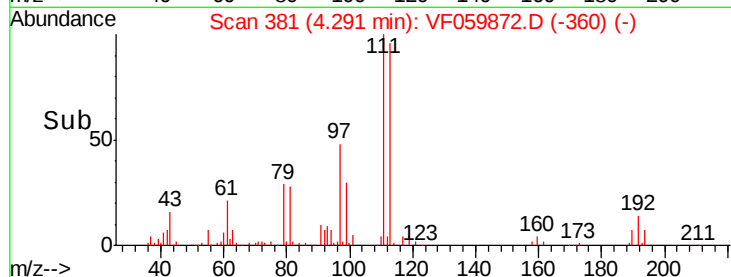
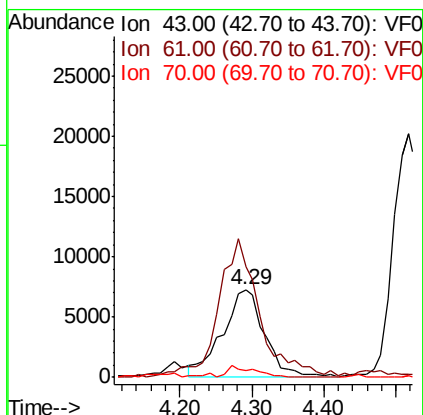
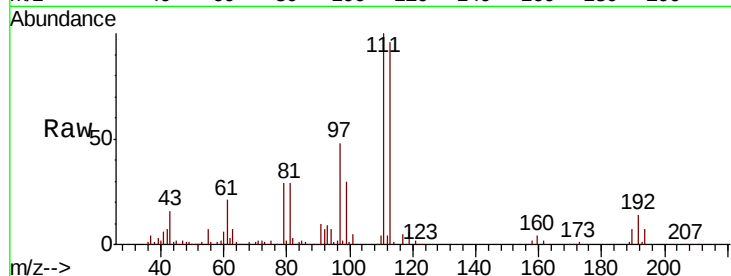




#37
Ethyl Acetate
Concen: 20.991 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.01 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

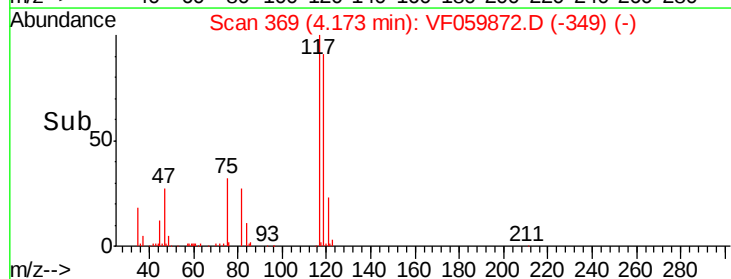
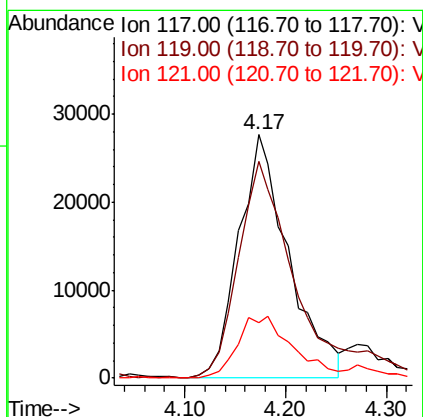
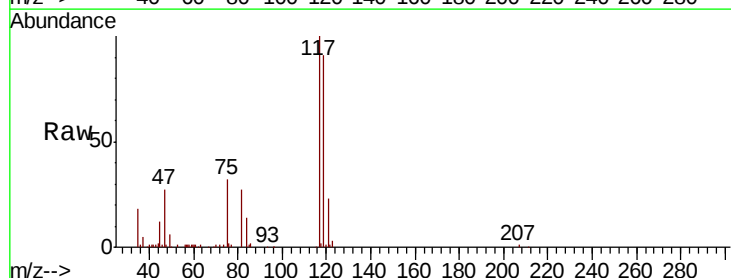
Instrument :
MSVOA_F
ClientSampleId :

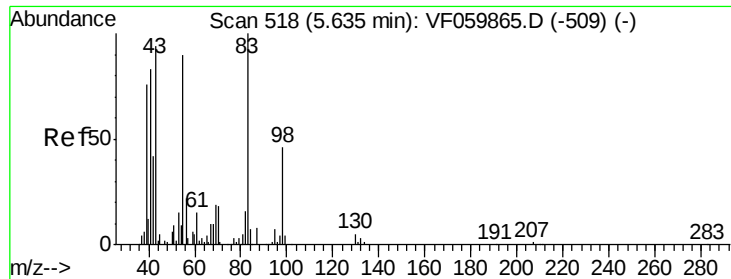
Tot Ion: 43 Resp: 29723
Ion Ratio Lower Upper
43 100
61 126.7 123.7 185.5
70 7.5 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 20.148 ug/l
RT: 4.17 min Scan# 369
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion: 117 Resp: 95117
Ion Ratio Lower Upper
117 100
119 89.2 76.5 114.7
121 23.0 23.8 35.8#

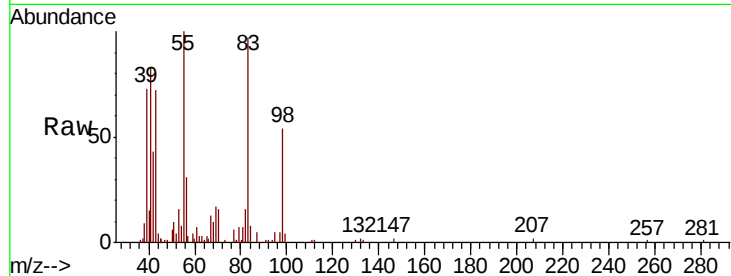




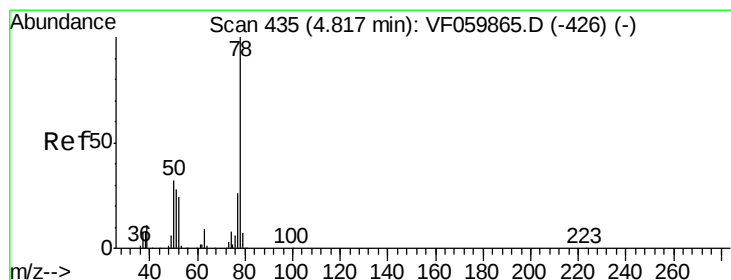
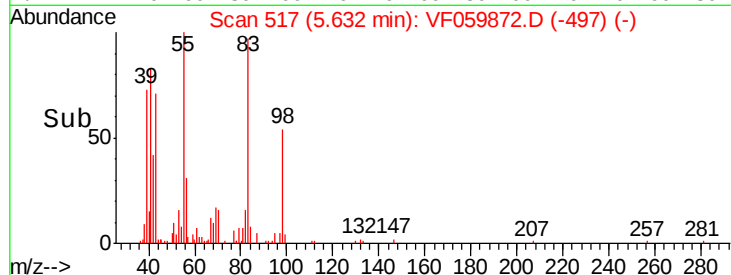
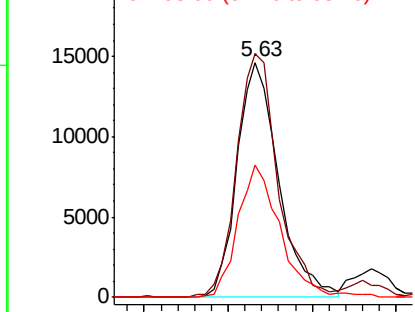
#39
Methvlcvclohexane
Concen: 20.449 ug/l
RT: 5.63 min Scan# 517
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 83 Resp: 50574
Ion Ratio Lower Upper
83 100
55 103.6 72.0 108.0
98 56.3 36.6 54.8#

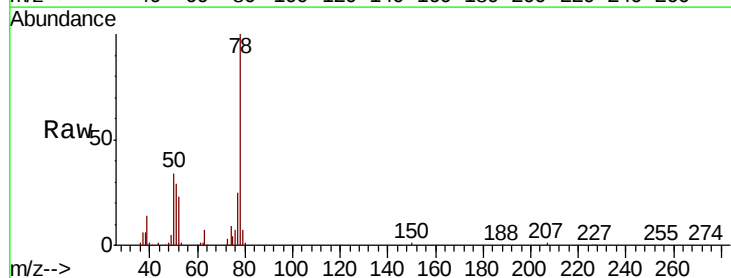


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

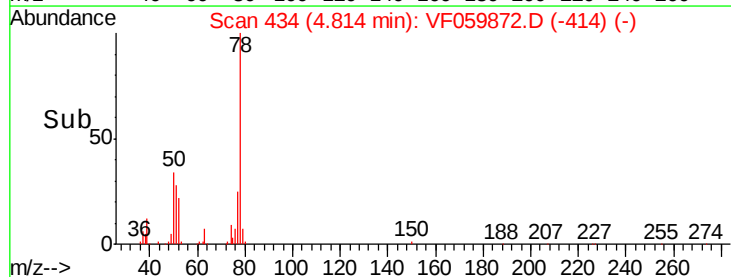
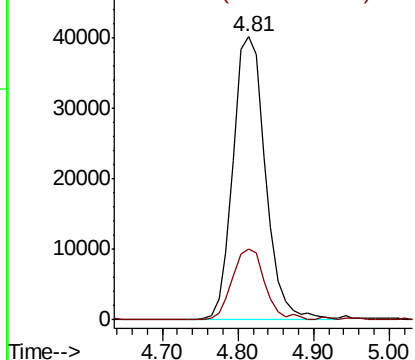


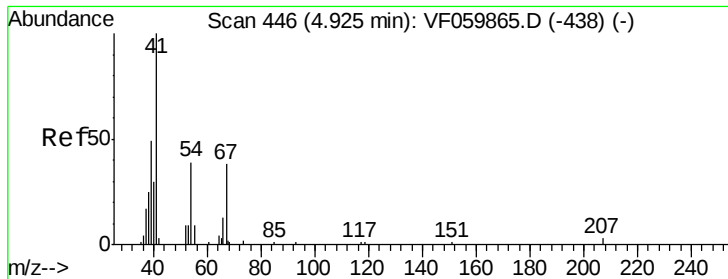
#40
Benzene
Concen: 19.166 ug/l
RT: 4.81 min Scan# 434
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion: 78 Resp: 119109
Ion Ratio Lower Upper
78 100
77 25.0 20.7 31.1



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

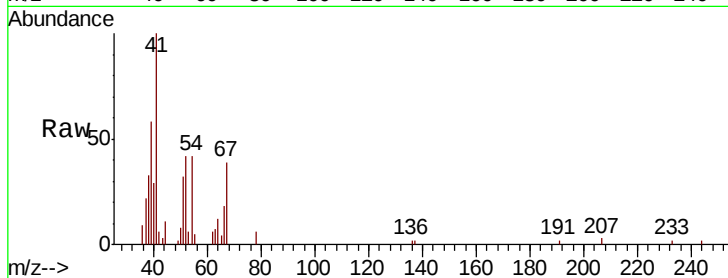




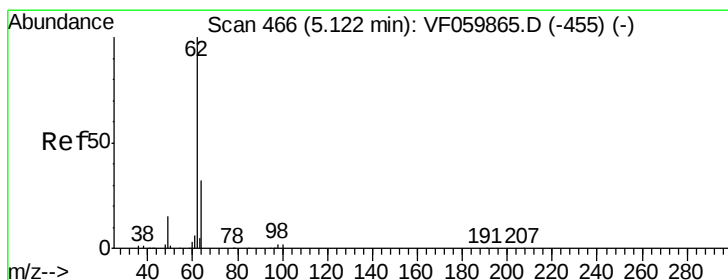
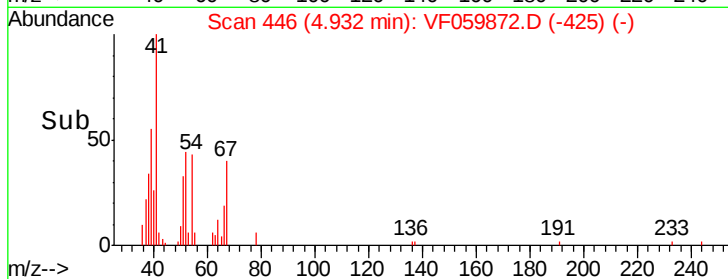
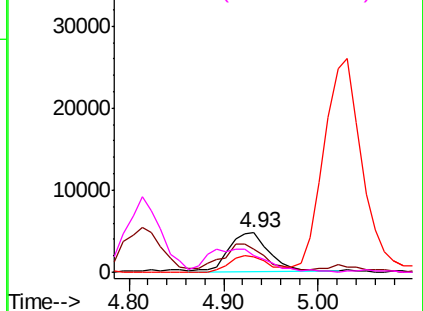
#41
Methacrylonitrile
Concen: 18.964 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.01 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	14171
Ion	Ratio	Lower	Upper
41	100		
39	58.0	55.1	82.7
67	38.6	30.3	45.5
52	42.4	36.0	54.0

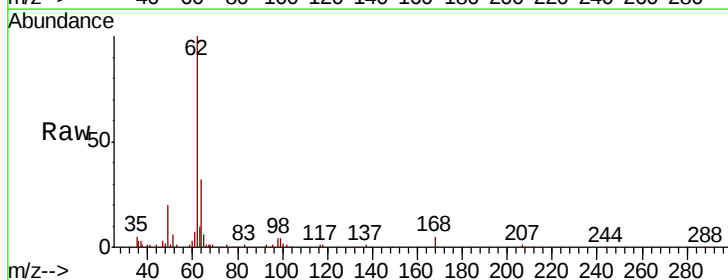


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

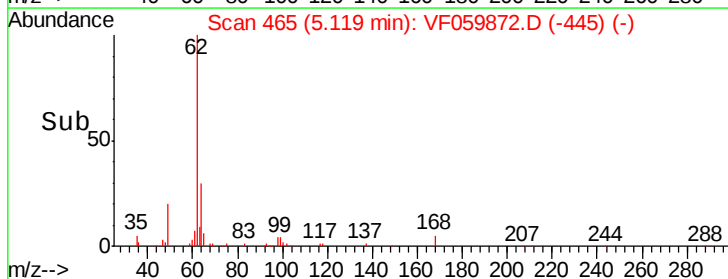
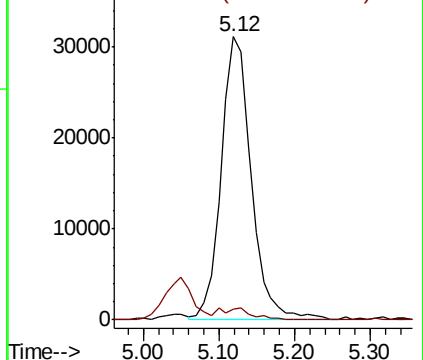


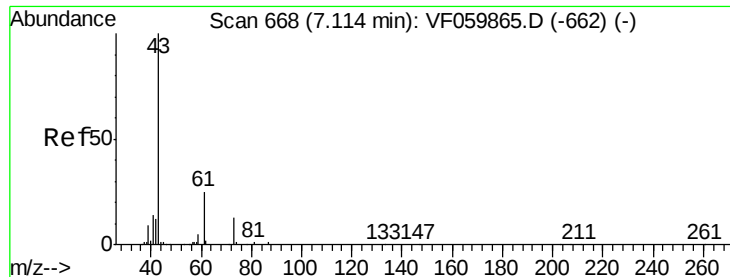
#42
1,2-Dichloroethane
Concen: 18.603 ug/l
RT: 5.12 min Scan# 465
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion:	62	Resp:	84947
Ion	Ratio	Lower	Upper
62	100		
98	3.8	0.0	7.6



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



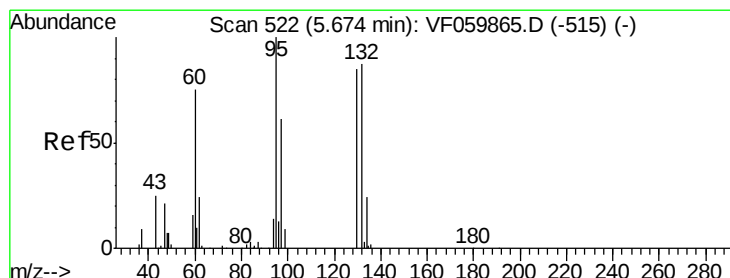
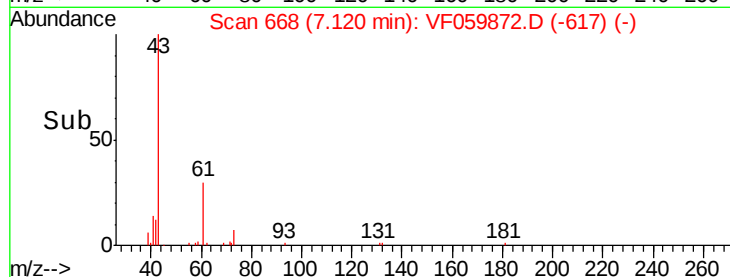
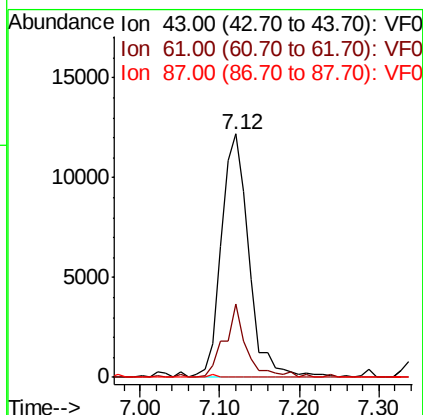
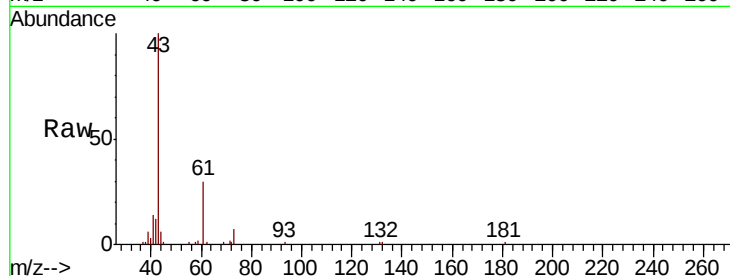


#43

Isopropyl Acetate
 Concen: 20.482 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Instrument :
 MSVOA_F
 ClientSampleId :

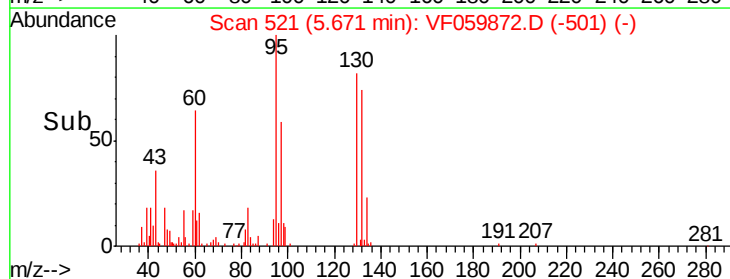
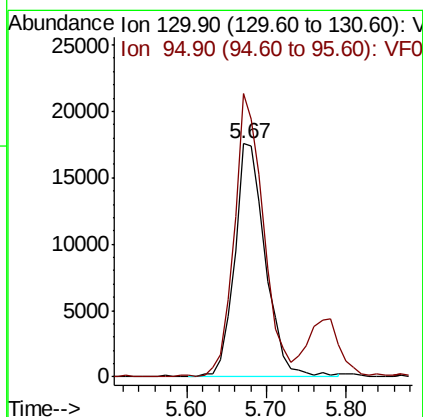
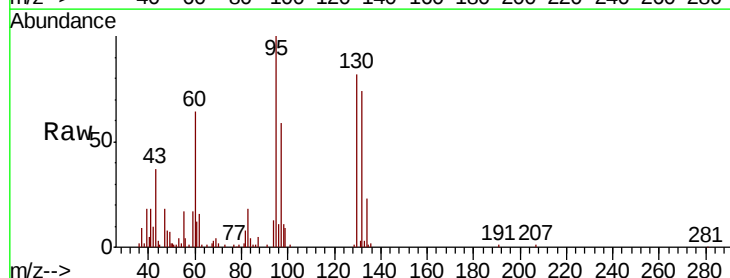
Tot Ion	Ratio	Lower	Upper
43	100		
61	30.4	20.3	30.5
87	0.0	0.7	1.1#

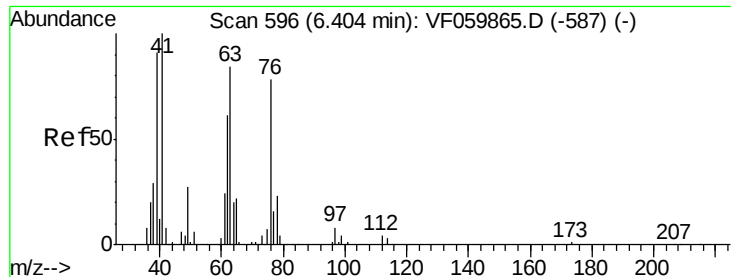


#44

Trichloroethene
 Concen: 21.411 ug/l
 RT: 5.67 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	121.5	0.0	236.8





#45

1,2-Dichloropropane

Concen: 20.961 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

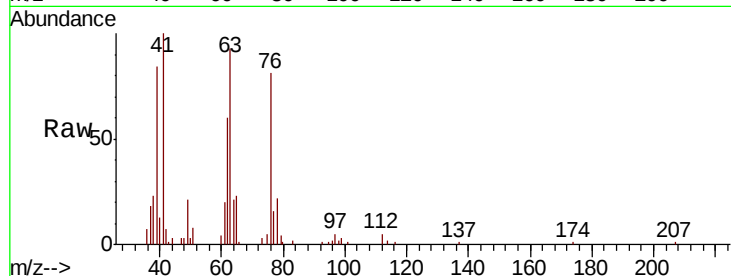
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 63 Resp: 31721

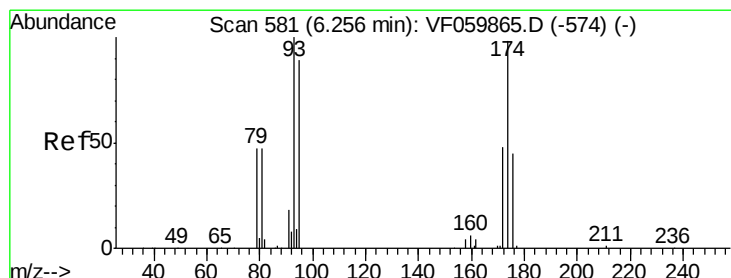
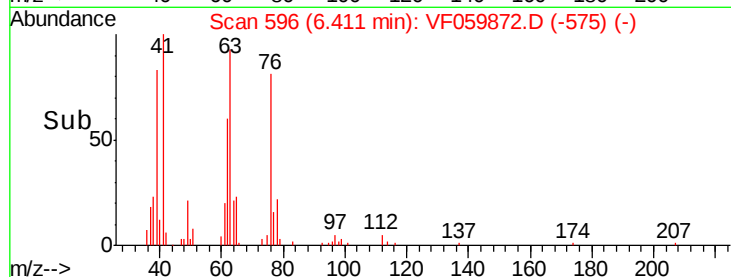
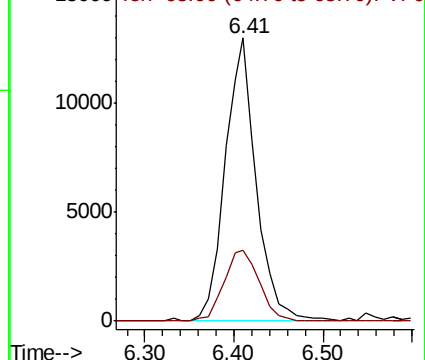
Ion Ratio Lower Upper

63 100

65 26.3 20.4 30.6



Abundance Ion 63.00 (62.70 to 63.70): VF0
Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 20.044 ug/l

RT: 6.26 min Scan# 581

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

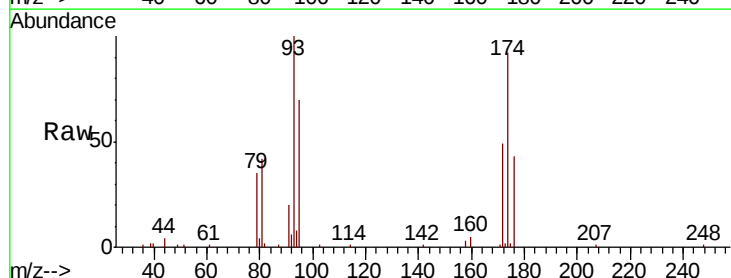
Tgt Ion: 93 Resp: 30608

Ion Ratio Lower Upper

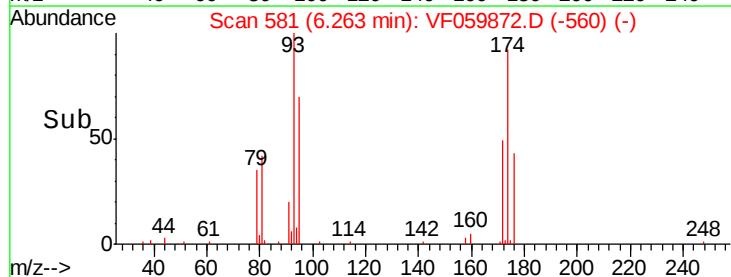
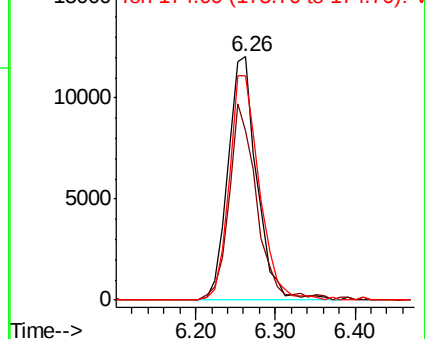
93 100

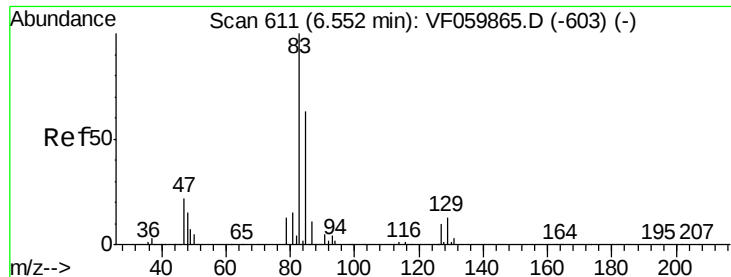
95 69.8 71.4 107.2#

174 93.8 78.1 117.1



Abundance Ion 93.00 (92.70 to 93.70): VF0
Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 19.144 ug/l

RT: 6.55 min Scan# 610

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

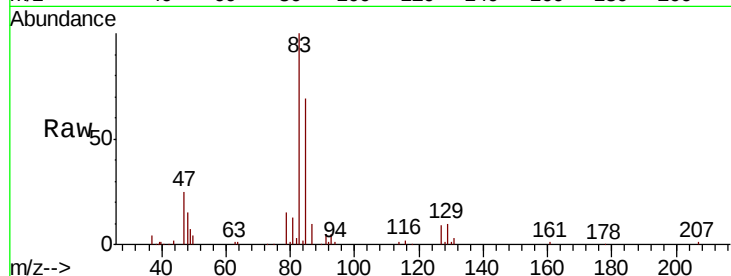
Tot Ion: 83 Resp: 79957

Ion Ratio Lower Upper

83 100

85 68.7 50.7 76.1

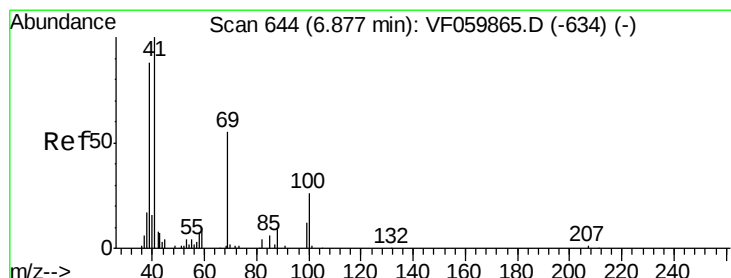
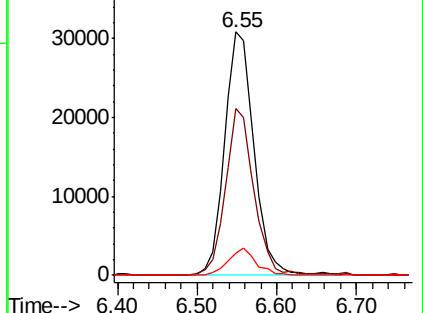
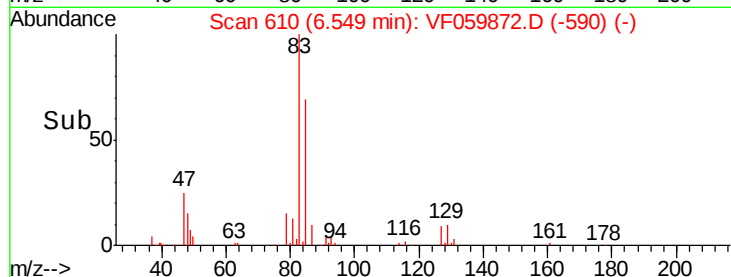
127 9.2 8.0 12.0



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: 19.912 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

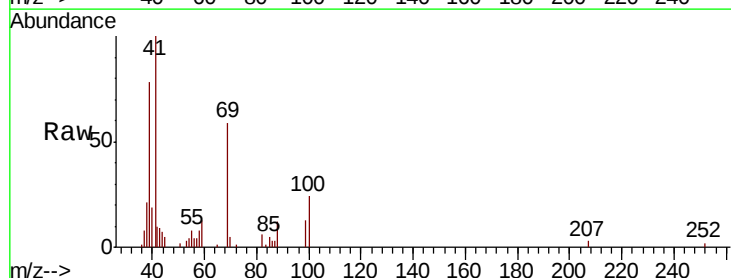
Tgt Ion: 41 Resp: 22586

Ion Ratio Lower Upper

41 100

69 58.8 44.4 66.6

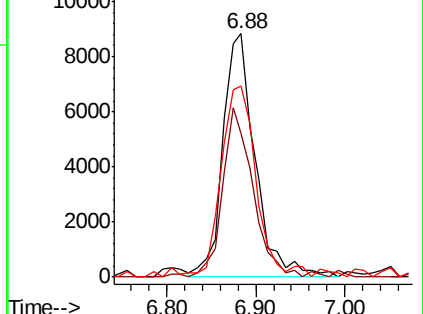
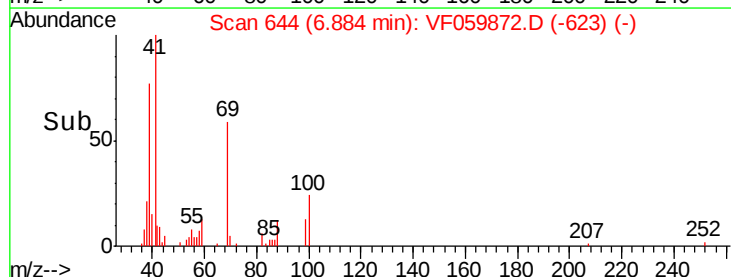
39 78.5 70.6 106.0

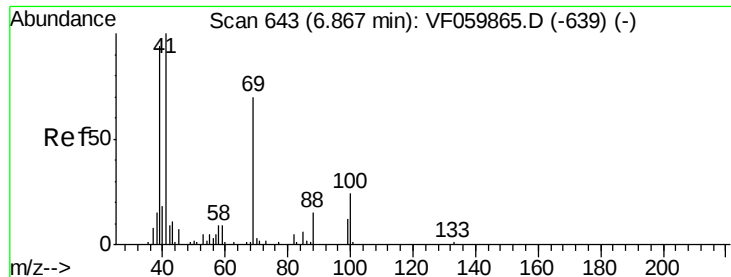


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 421.216 ug/l

RT: 6.87 min Scan# 643

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :
MSVOA_F
ClientSampled :

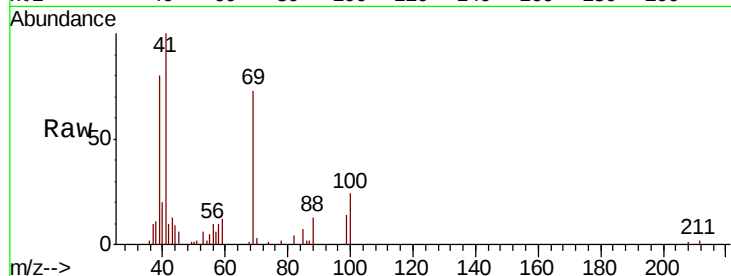
Tot Ion: 88 Resp: 3020

Ion Ratio Lower Upper

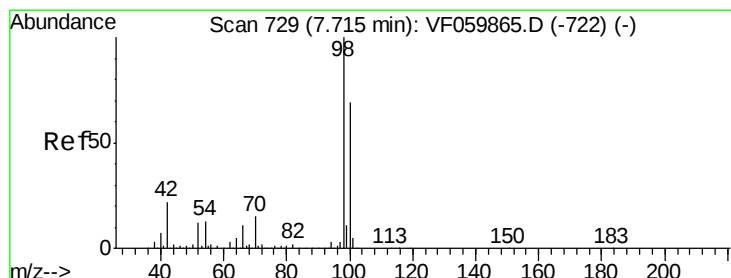
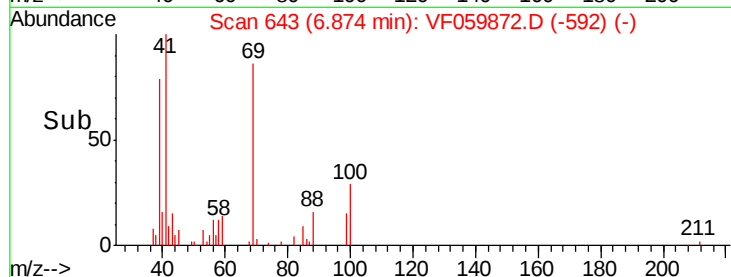
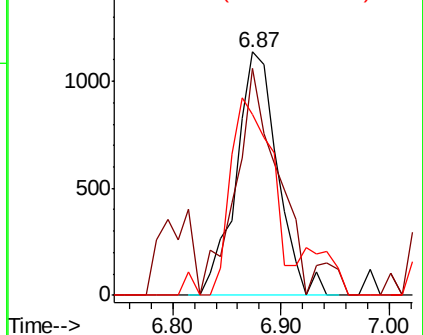
88 100

43 93.1 58.3 87.5#

58 74.3 49.4 74.2#



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: 54.691 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.00 min

Lab File: VF059872.D

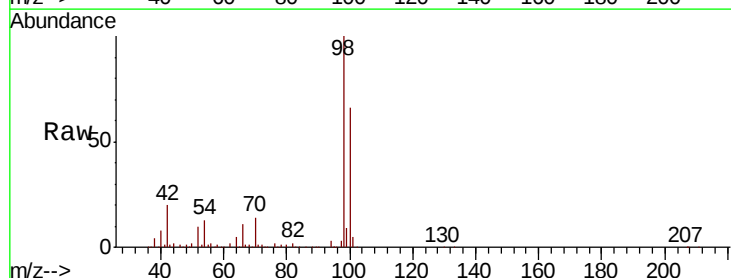
Acq: 4 Aug 2018 8:52

Tgt Ion: 98 Resp: 330100

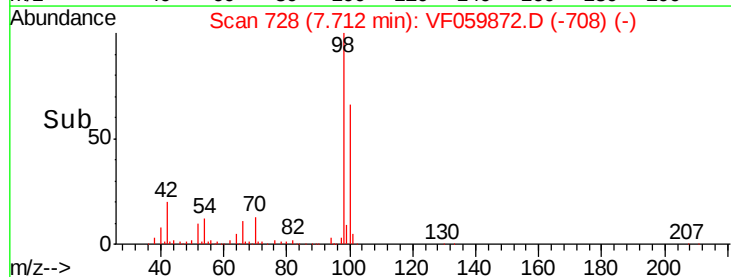
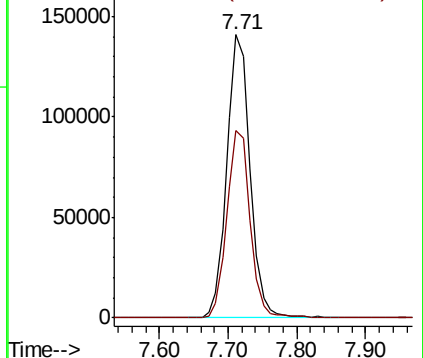
Ion Ratio Lower Upper

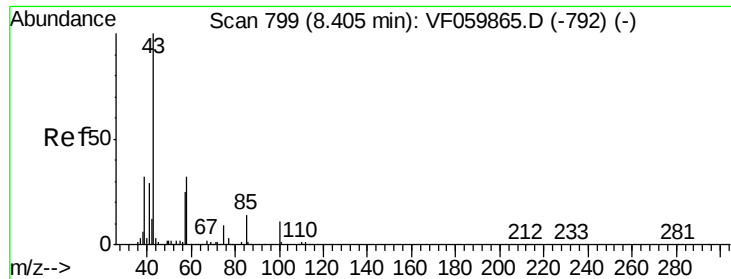
98 100

100 66.2 55.0 82.6



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: 99.391 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

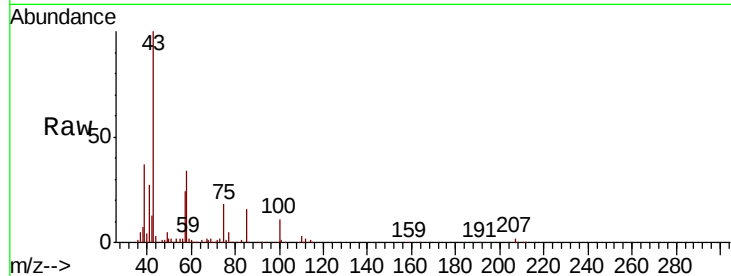
ClientSampleId :

Tot Ion: 43 Resp: 148166

Ion Ratio Lower Upper

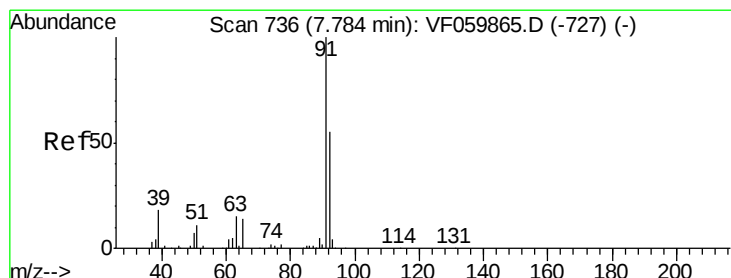
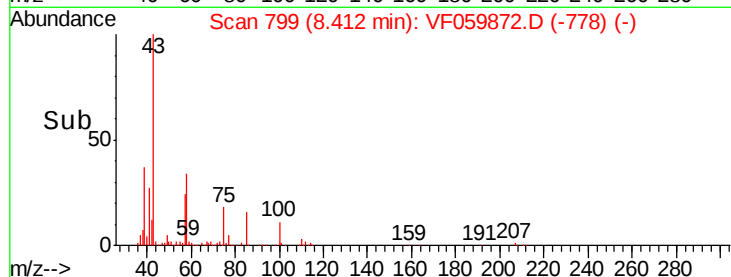
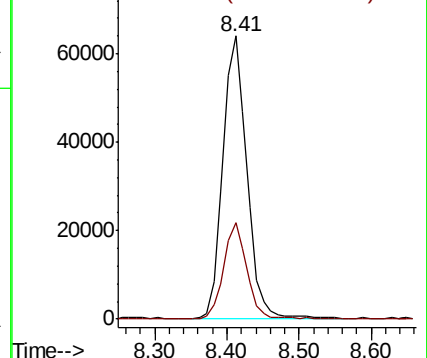
43 100

58 34.0 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 21.856 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF059872.D

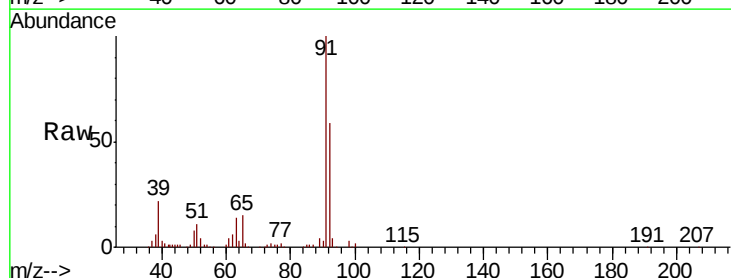
Acq: 4 Aug 2018 8:52

Tgt Ion: 92 Resp: 91034

Ion Ratio Lower Upper

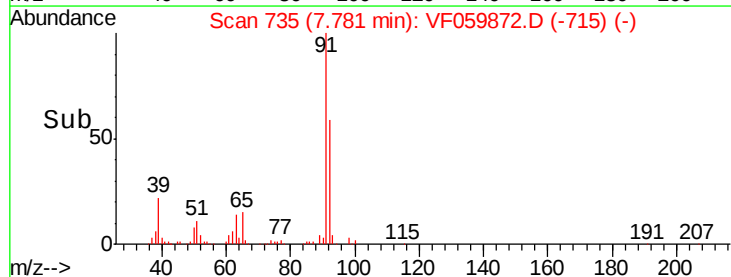
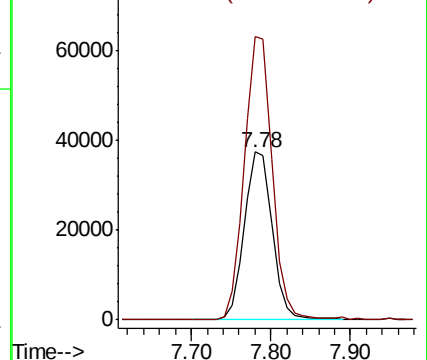
92 100

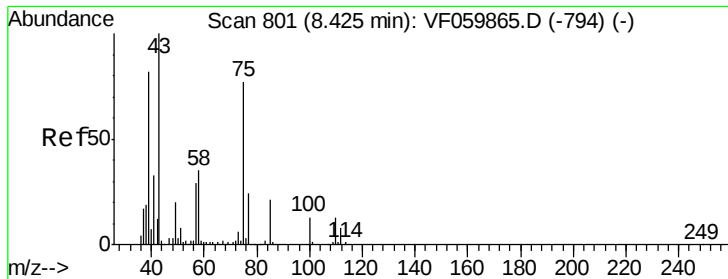
91 168.9 145.7 218.5



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

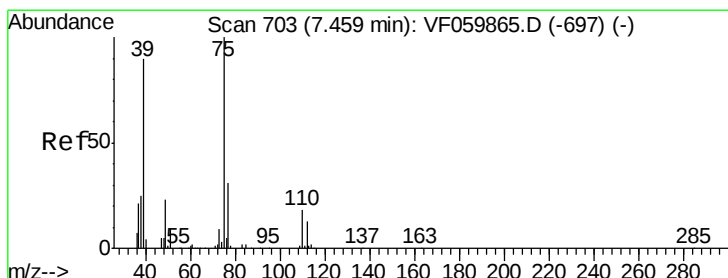
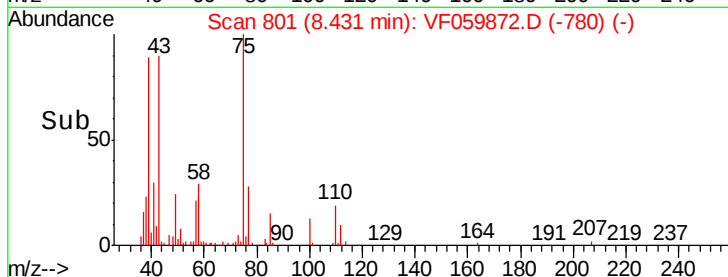
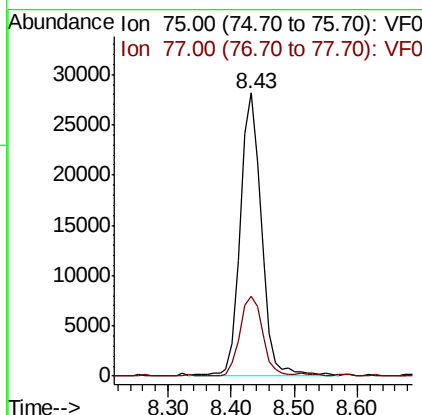
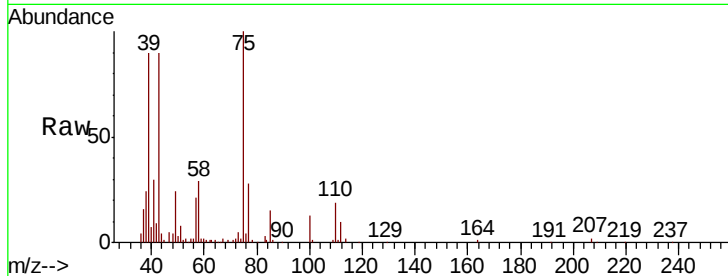




#53
 t-1,3-Dichloropropene
 Concen: 20.646 ug/l
 RT: 8.43 min Scan# 801
 Delta R.T. 0.01 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

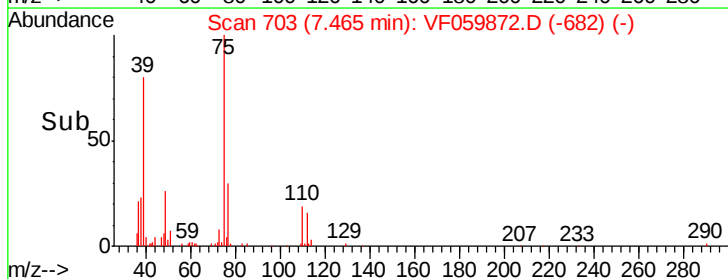
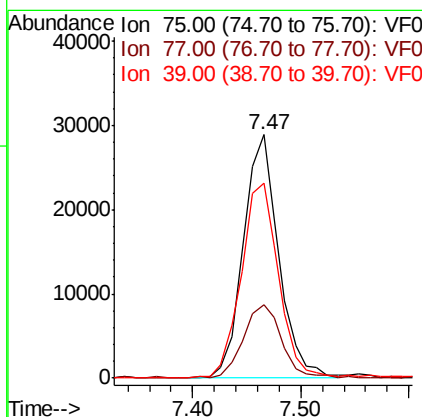
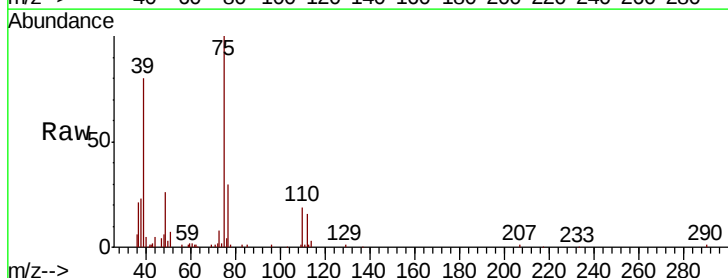
Instrument :
 MSVOA_F
 ClientSampleId :

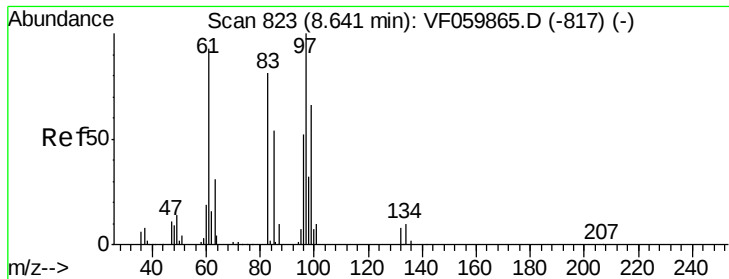
Tot Ion: 75 Resp: 65593
 Ion Ratio Lower Upper
 75 100
 77 28.4 24.5 36.7



#54
 cis-1,3-Dichloropropene
 Concen: 20.001 ug/l
 RT: 7.47 min Scan# 703
 Delta R.T. 0.01 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion: 75 Resp: 65581
 Ion Ratio Lower Upper
 75 100
 77 30.0 24.7 37.1
 39 80.0 72.0 108.0





#55

1,1,2-Trichloroethane

Concen: 20.166 ug/l

RT: 8.65 min Scan# 823

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 30236

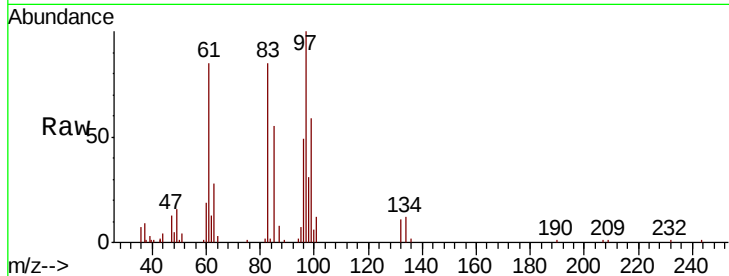
Ion Ratio Lower Upper

97 100

83 84.6 64.4 96.6

85 55.1 43.1 64.7

99 58.5 52.7 79.1

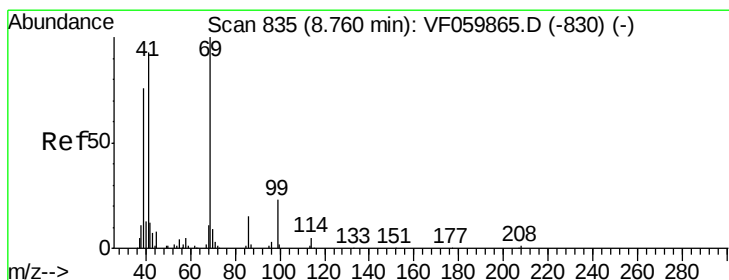
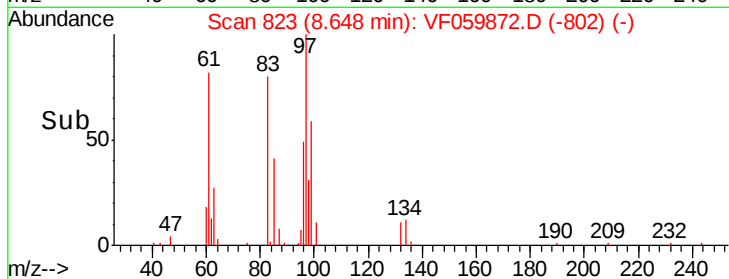
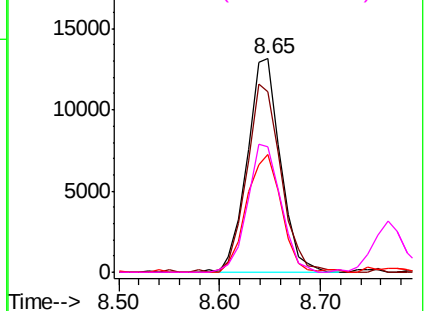


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 19.619 ug/l

RT: 8.77 min Scan# 835

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

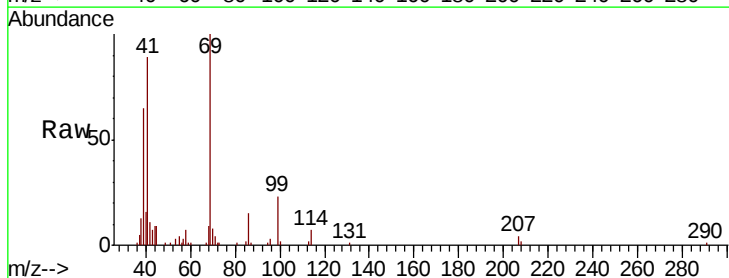
Tgt Ion: 69 Resp: 28663

Ion Ratio Lower Upper

69 100

41 88.9 74.7 112.1

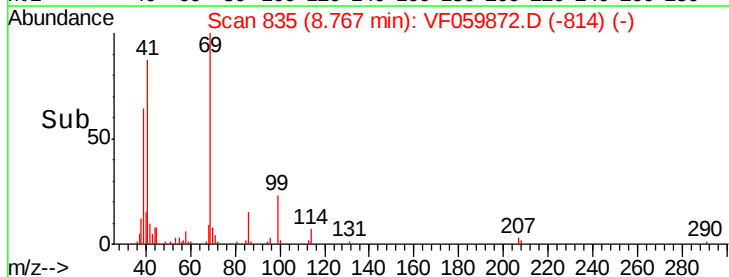
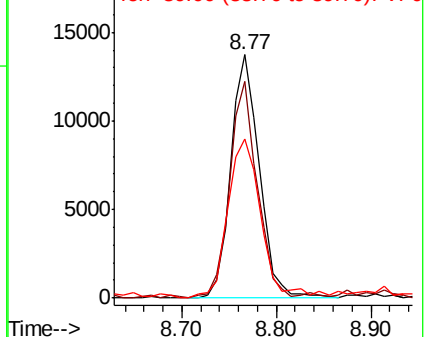
39 65.2 61.1 91.7

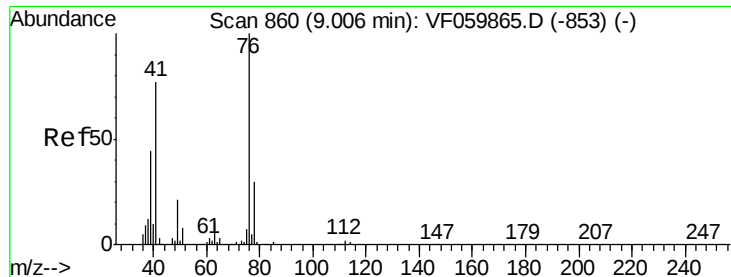


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 21.399 ug/l

RT: 9.00 min Scan# 859

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

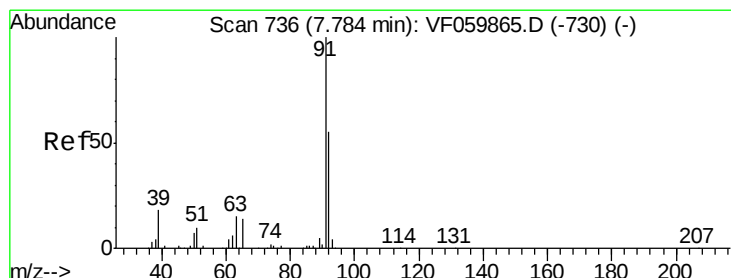
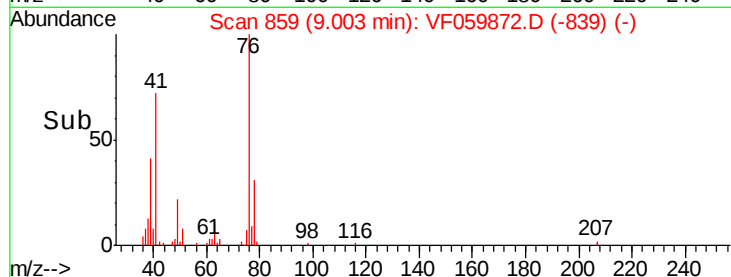
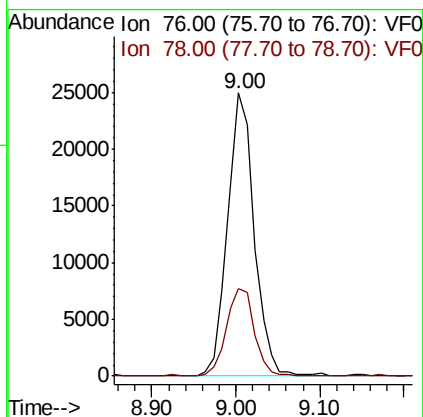
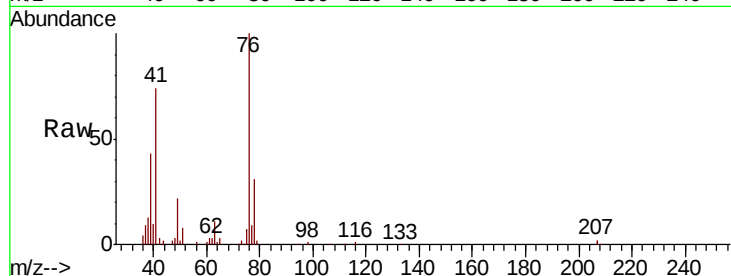
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 76 Resp: 55095

Ion Ratio Lower Upper

76 100

78 30.8 24.2 36.2



#58

2-Chloroethyl Vinyl ether

Concen: 99.620 ug/l

RT: 7.78 min Scan# 735

Delta R.T. -0.00 min

Lab File: VF059872.D

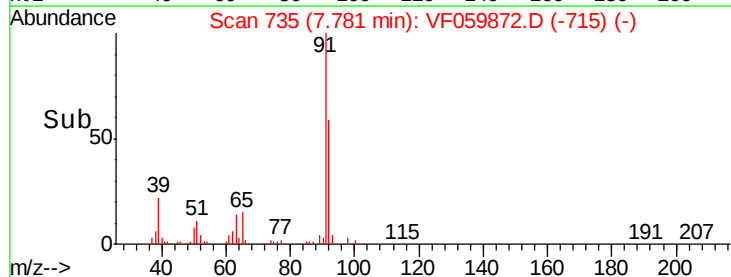
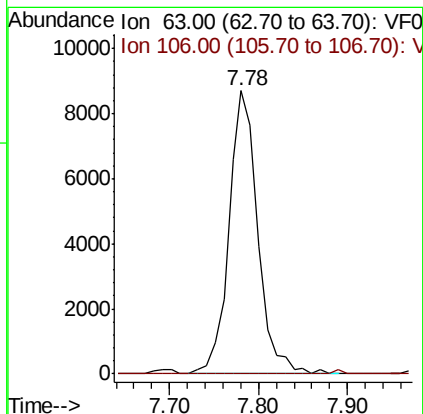
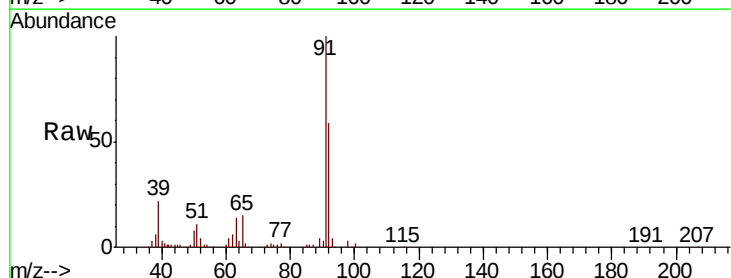
Acq: 4 Aug 2018 8:52

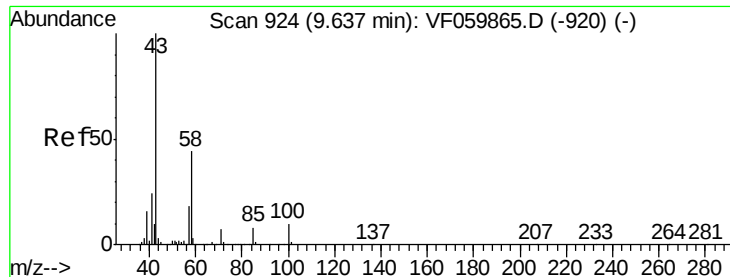
Tgt Ion: 63 Resp: 19761

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

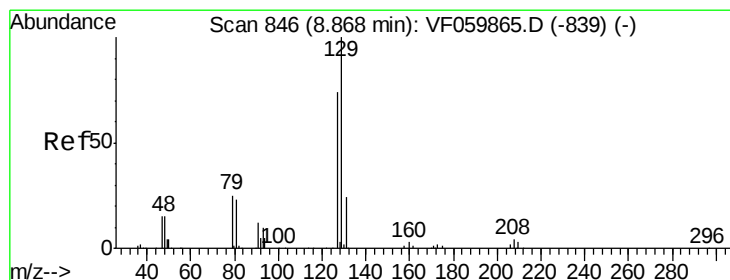
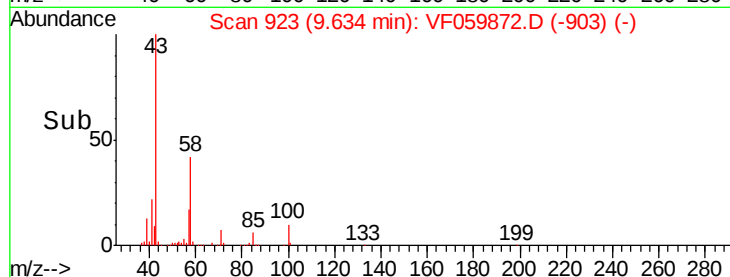
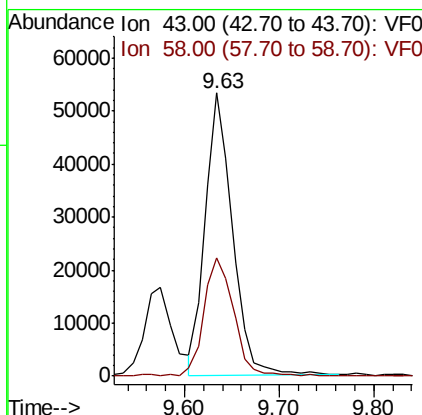
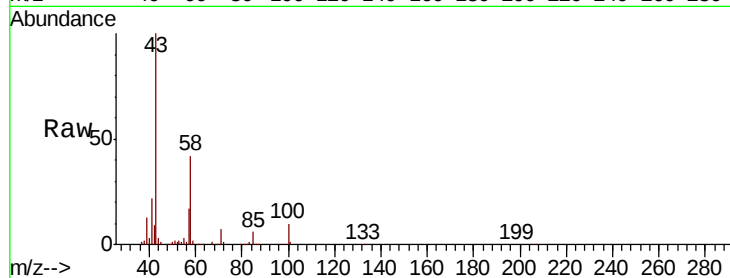




#59
2-Hexanone
Concen: 101.316 ug/l
RT: 9.63 min Scan# 923
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

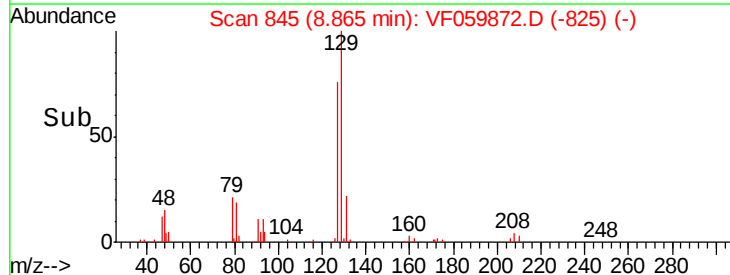
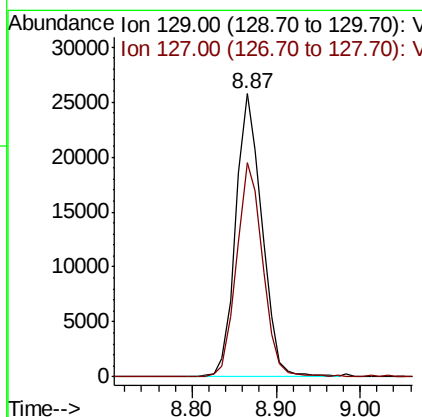
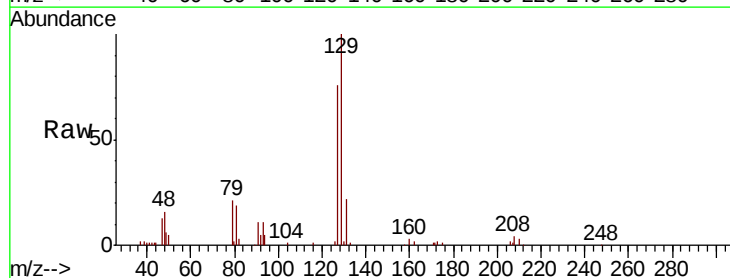
Instrument :
MSVOA_F
ClientSampleId :

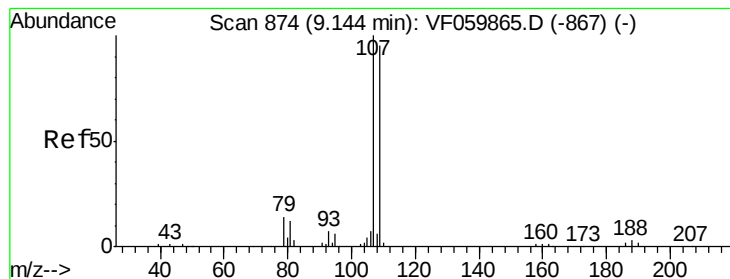
Tot Ion: 43 Resp: 106692
Ion Ratio Lower Upper
43 100
58 41.7 20.8 62.2



#60
Dibromochloromethane
Concen: 19.844 ug/l
RT: 8.87 min Scan# 845
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion: 129 Resp: 55821
Ion Ratio Lower Upper
129 100
127 75.5 36.9 110.7





#61

1,2-Dibromoethane

Concen: 20.283 ug/l

RT: 9.14 min Scan# 873

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

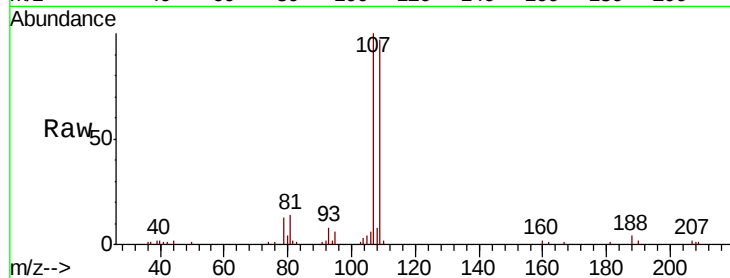
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:107 Resp: 37055

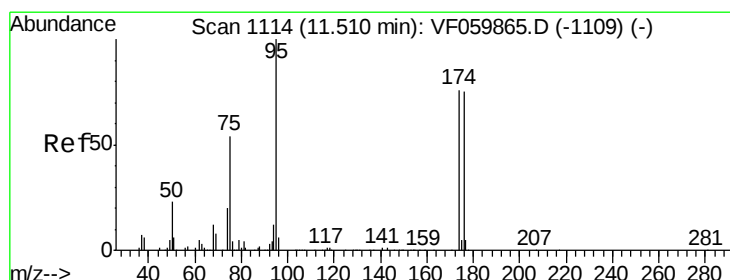
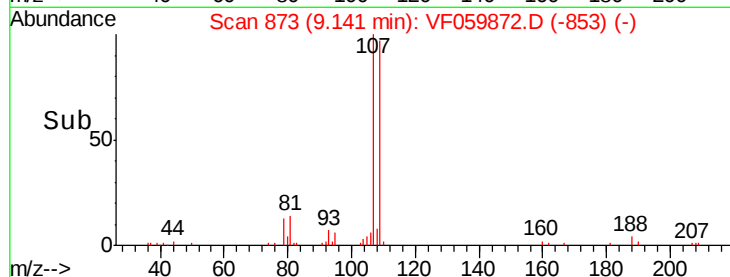
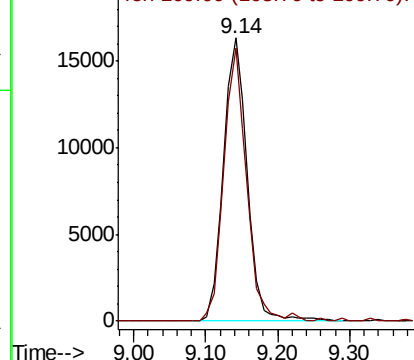
Ion Ratio Lower Upper

107 100

109 96.7 75.8 113.8



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 53.502 ug/l

RT: 11.52 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

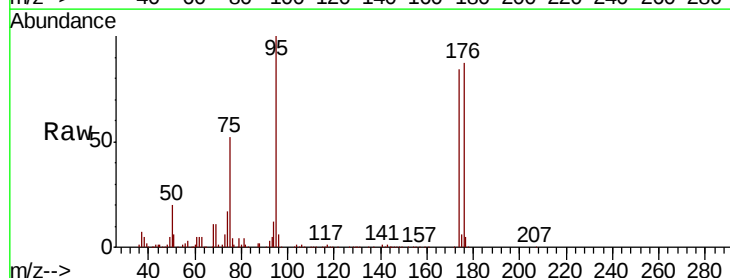
Tgt Ion: 95 Resp: 181460

Ion Ratio Lower Upper

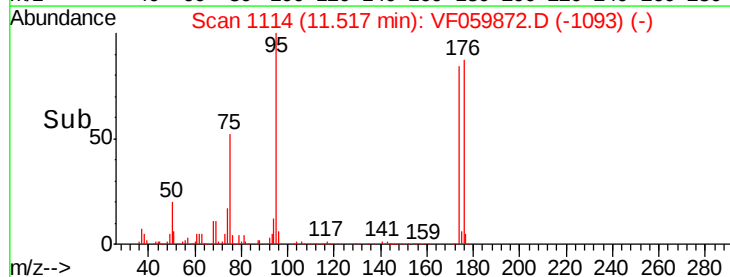
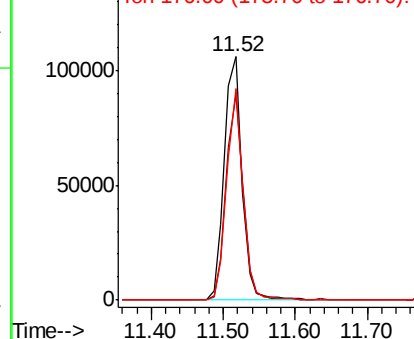
95 100

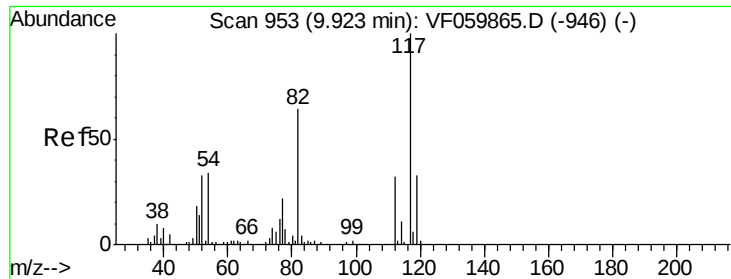
174 84.3 0.0 151.6

176 87.0 0.0 149.8



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

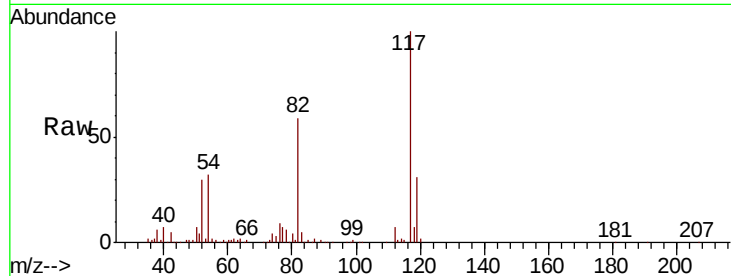




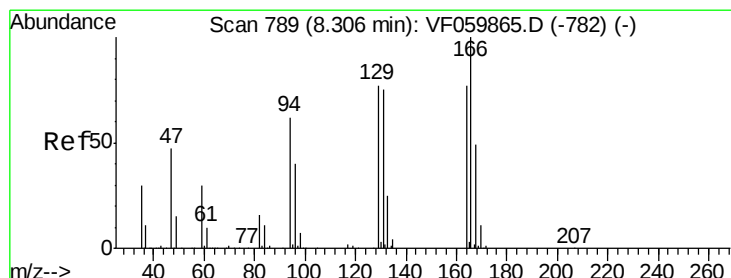
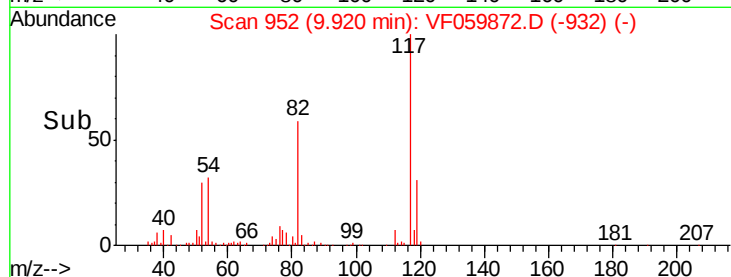
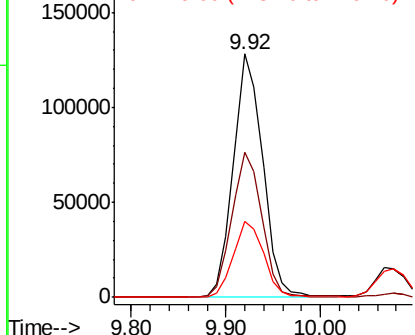
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 277371
Ion Ratio Lower Upper
117 100
82 59.4 51.3 76.9
119 31.1 26.4 39.6

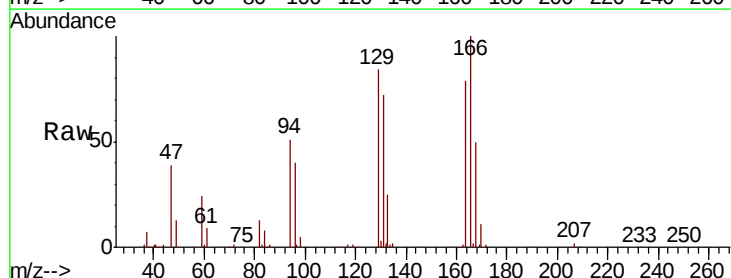


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

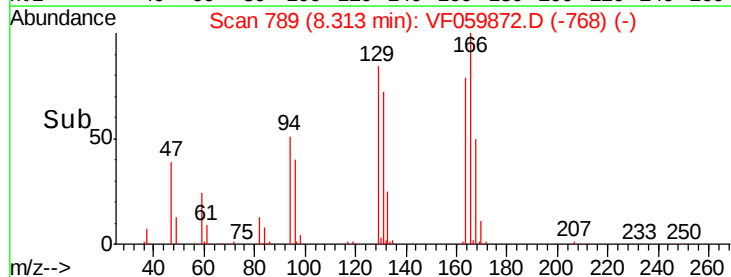
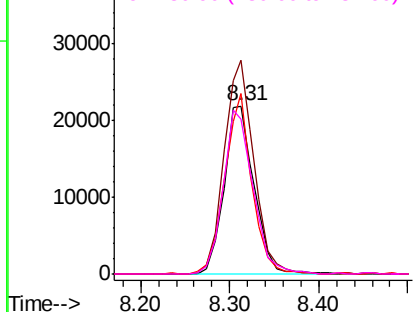


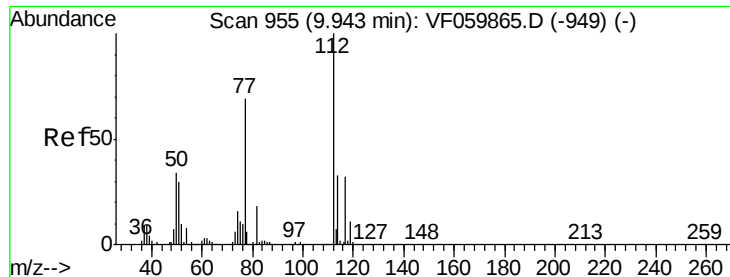
#64
Tetrachloroethene
Concen: 21.614 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion:164 Resp: 51718
Ion Ratio Lower Upper
164 100
166 127.4 104.4 156.6
129 107.6 80.3 120.5
131 92.2 78.5 117.7



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

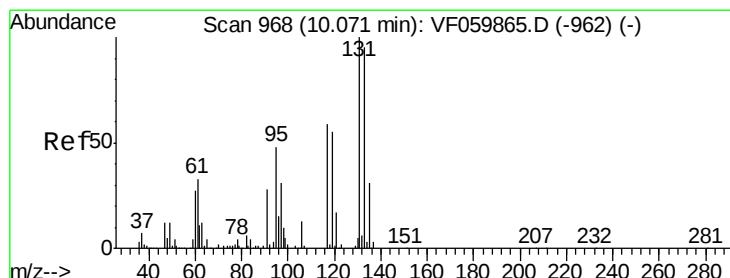
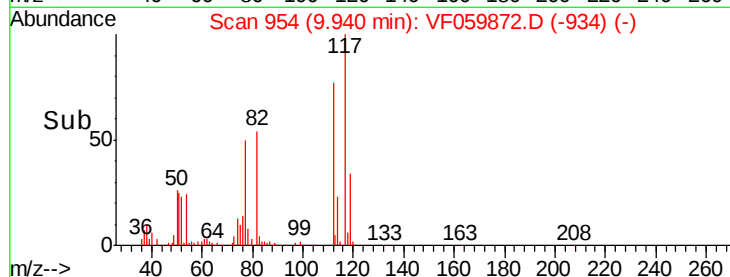
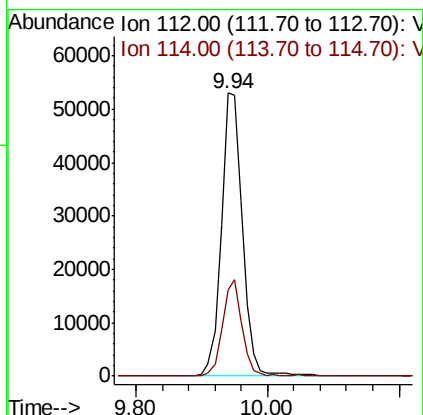
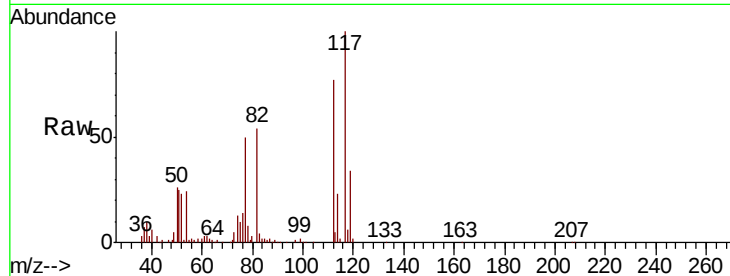




#65
Chlorobenzene
Concen: 21.103 ug/l
RT: 9.94 min Scan# 954
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

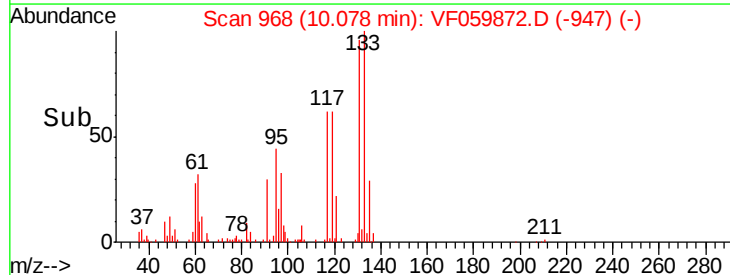
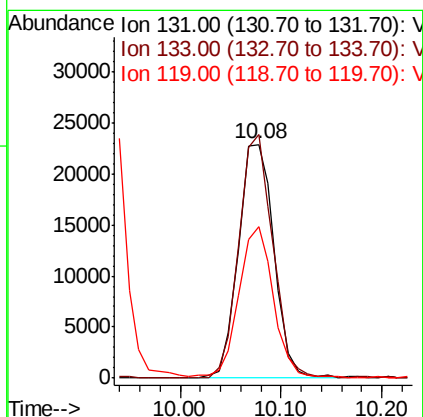
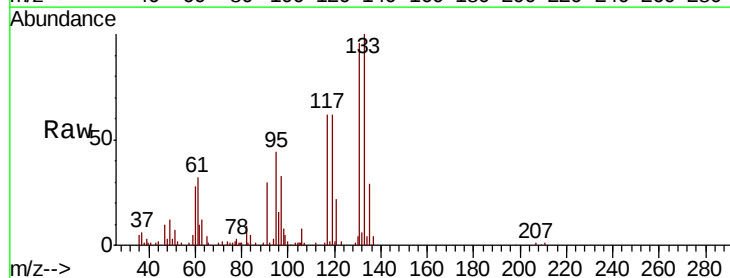
Instrument :
MSVOA_F
ClientSampleId :

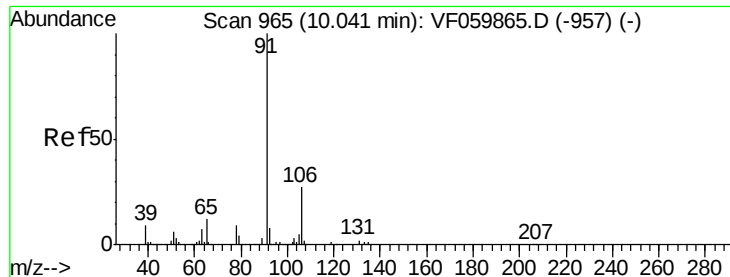
Tot Ion:112 Resp: 118808
Ion Ratio Lower Upper
112 100
114 30.3 26.4 39.6



#66
1,1,1,2-Tetrachloroethane
Concen: 20.060 ug/l
RT: 10.08 min Scan# 968
Delta R.T. 0.01 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion:131 Resp: 56178
Ion Ratio Lower Upper
131 100
133 104.2 47.4 142.2
119 64.9 27.7 83.1





#67

Ethyl Benzene

Concen: 21.714 ug/l

RT: 10.05 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

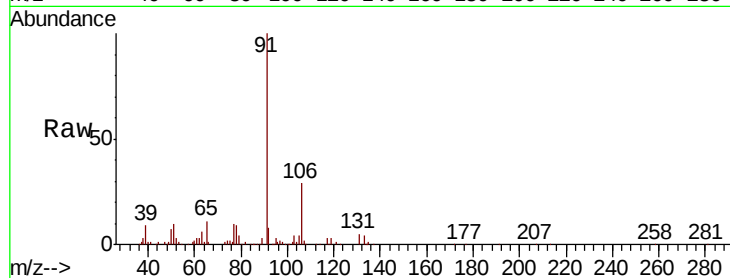
ClientSampleId :

Tot Ion: 91 Resp: 212972

Ion Ratio Lower Upper

91 100

106 28.6 21.5 32.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

200000

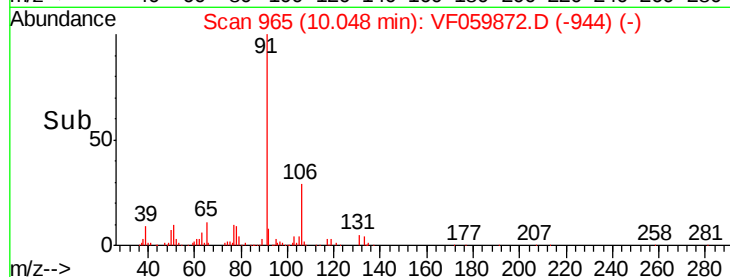
150000

100000

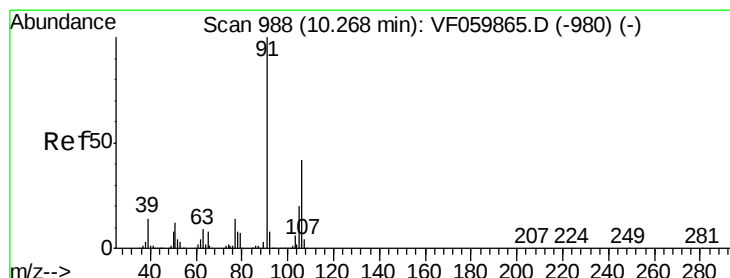
50000

0

Time-->



Time-->



#68

m/p-Xylenes

Concen: 44.461 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.01 min

Lab File: VF059872.D

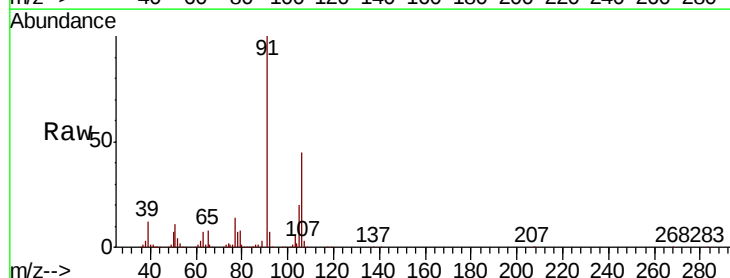
Acq: 4 Aug 2018 8:52

Tgt Ion: 106 Resp: 150747

Ion Ratio Lower Upper

106 100

91 224.1 192.1 288.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

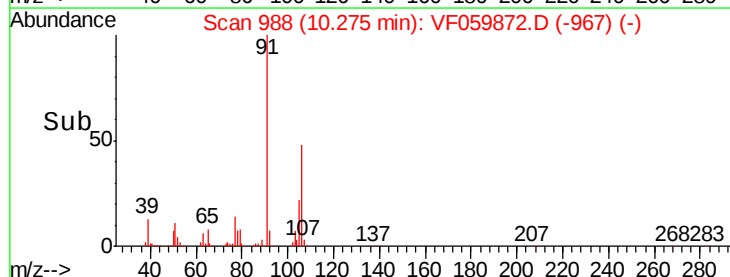
150000

100000

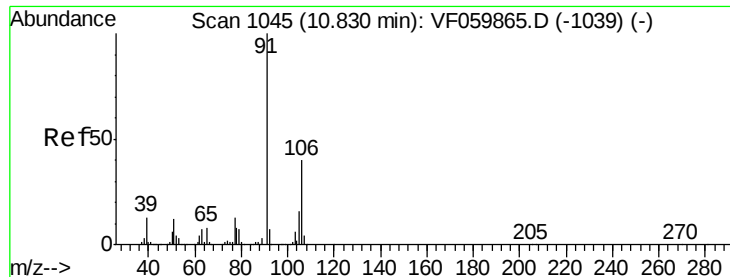
50000

0

Time-->



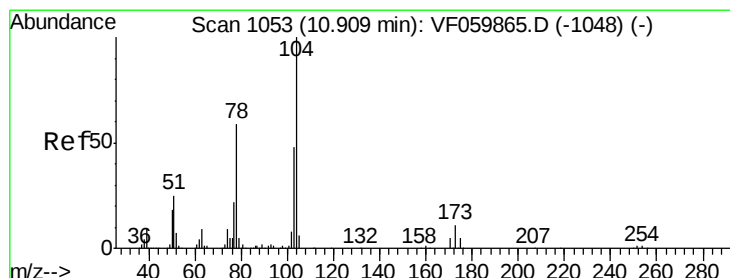
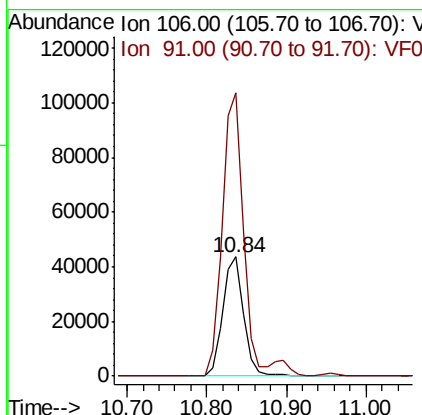
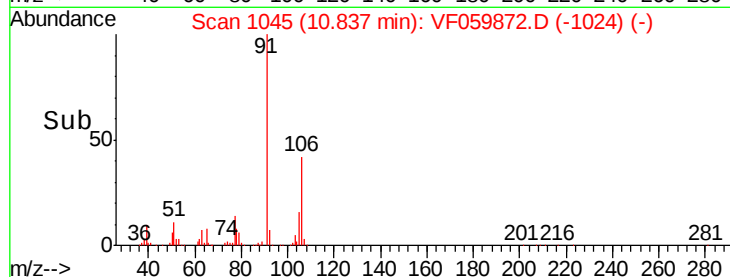
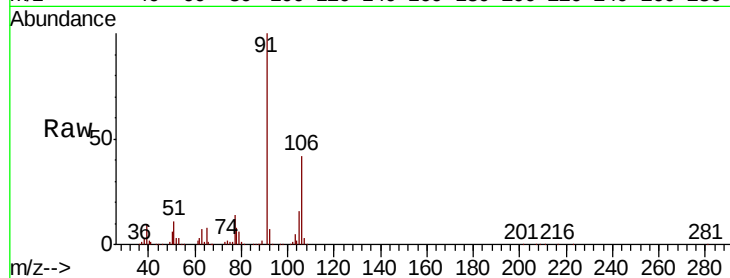
Time-->



#69
o-Xylene
Concen: 22.593 ug/l
RT: 10.84 min Scan# 1045
Delta R.T. 0.01 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

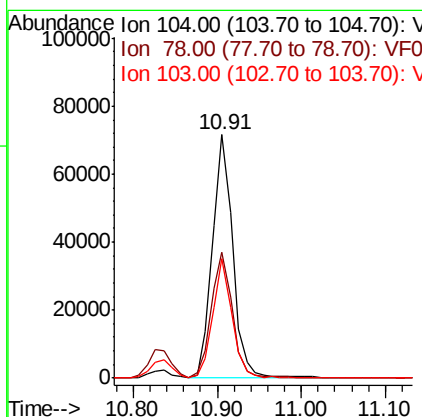
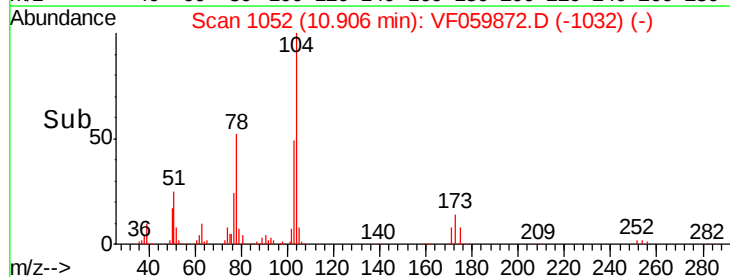
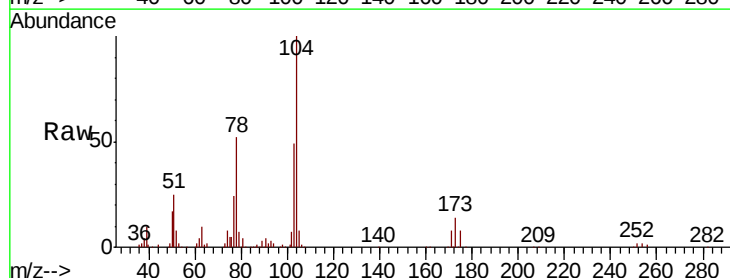
Instrument :
MSVOA_F
ClientSampled :

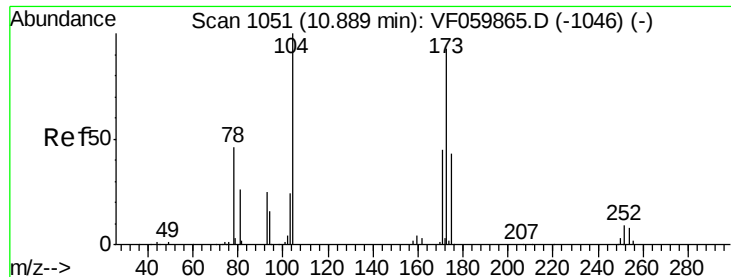
Tot Ion:106 Resp: 81149
Ion Ratio Lower Upper
106 100
91 238.0 125.4 376.2



#70
Styrene
Concen: 22.438 ug/l
RT: 10.91 min Scan# 1052
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion:104 Resp: 120262
Ion Ratio Lower Upper
104 100
78 51.8 47.3 70.9
103 49.0 39.0 58.4





#71

Bromoform

Concen: 19.772 ug/l

RT: 10.90 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampled :

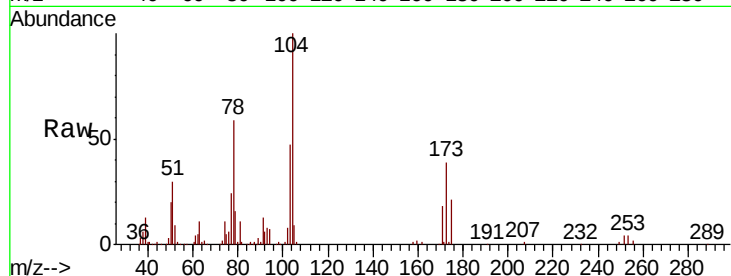
Tot Ion:173 Resp: 33935

Ion Ratio Lower Upper

173 100

175 53.6 23.4 70.2

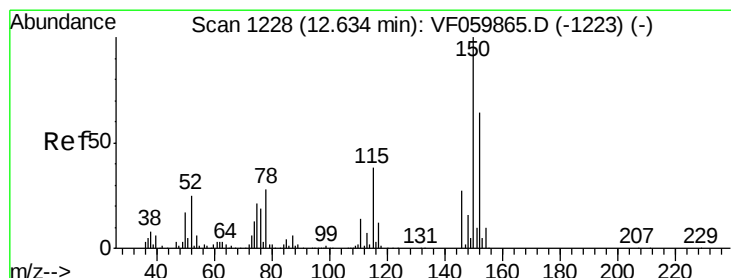
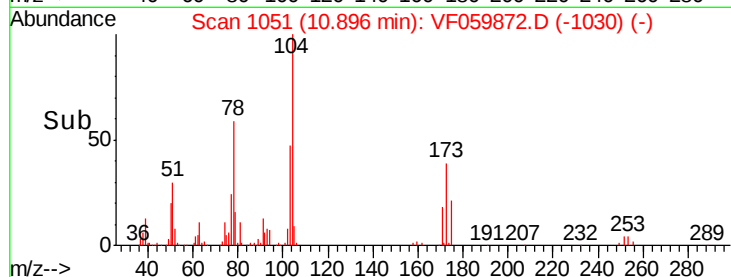
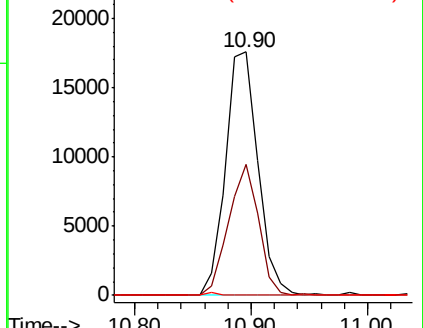
254 0.0 0.0 0.0



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: 12.63 min Scan# 1227

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

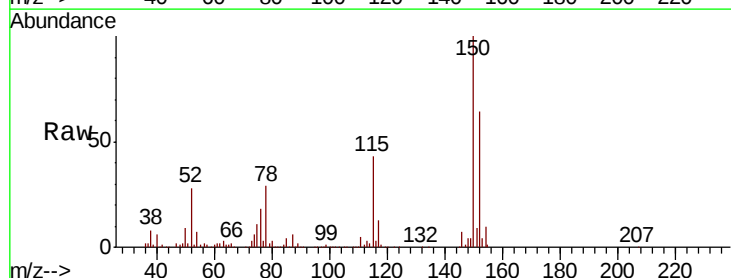
Tgt Ion:152 Resp: 187560

Ion Ratio Lower Upper

152 100

115 66.0 29.8 89.4

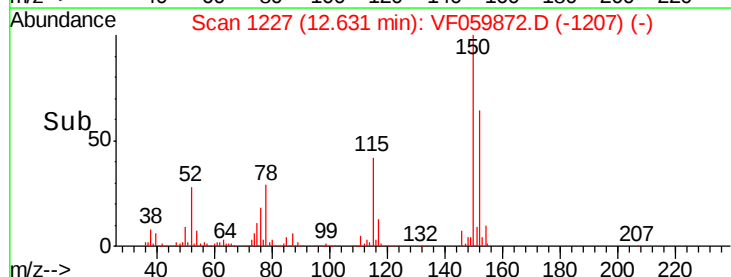
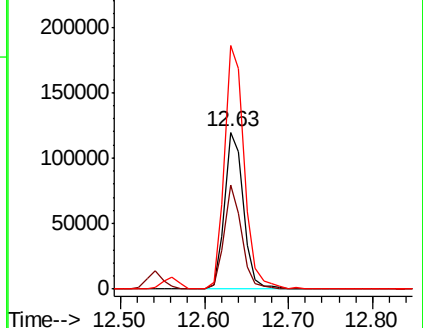
150 155.1 0.0 315.6

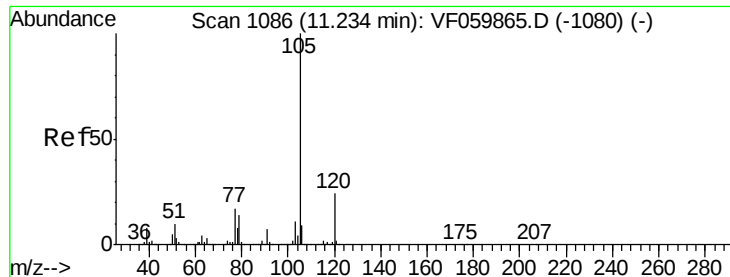


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 21.367 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

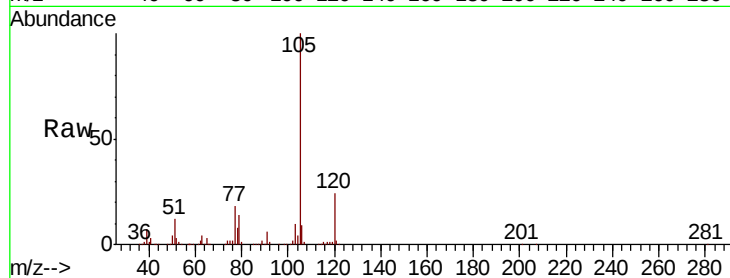
ClientSampleId :

Tot Ion:105 Resp: 249612

Ion Ratio Lower Upper

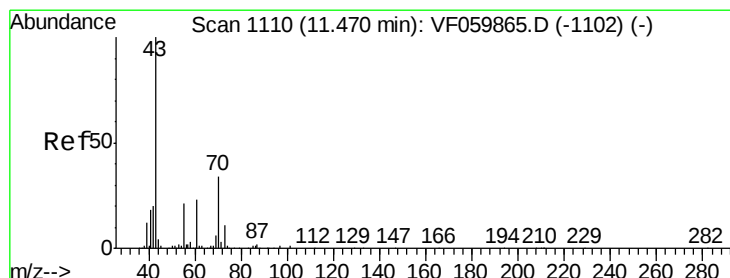
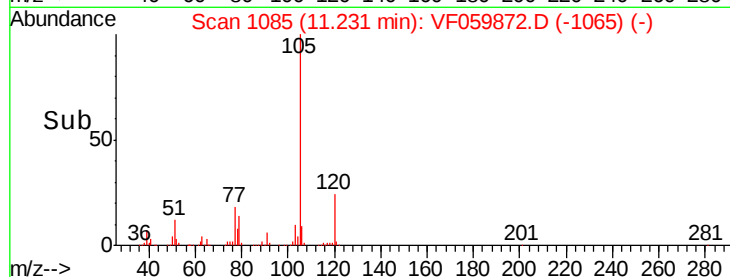
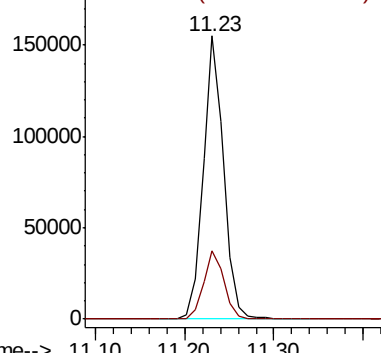
105 100

120 24.1 12.1 36.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.031 ug/l

RT: 11.47 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Tgt Ion: 43 Resp: 55531

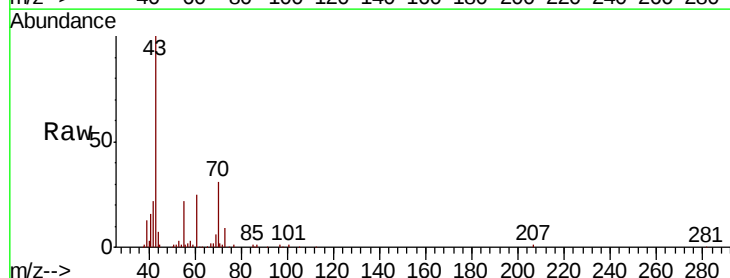
Ion Ratio Lower Upper

43 100

70 31.0 27.5 41.3

55 22.1 16.6 25.0

61 25.1 18.2 27.4

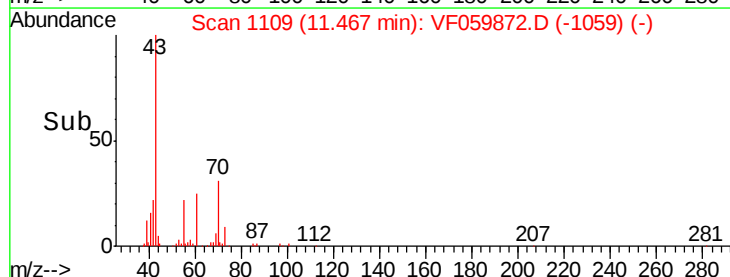
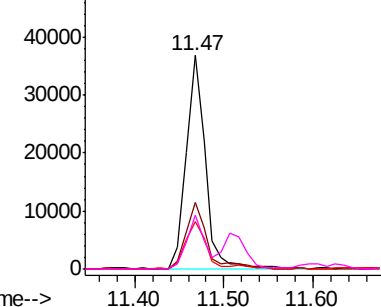


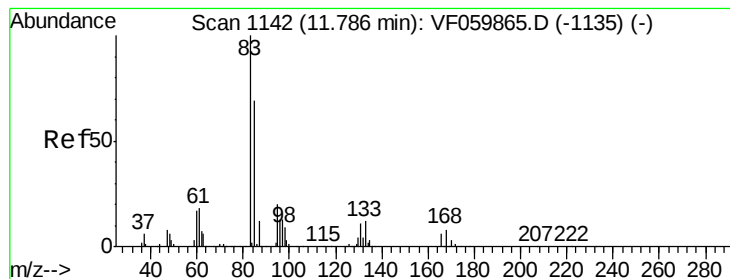
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.702 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VF059872.D

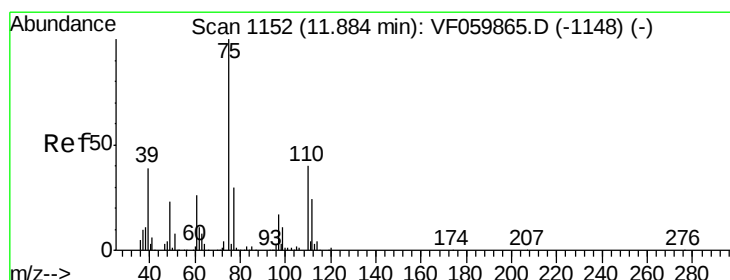
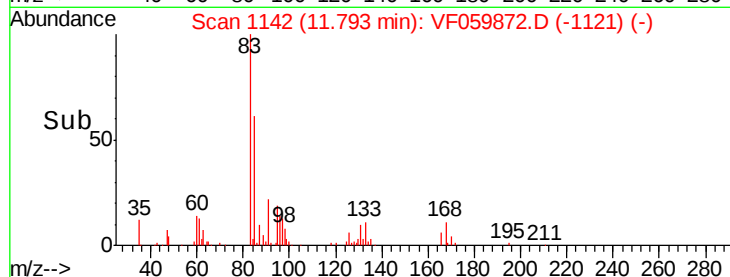
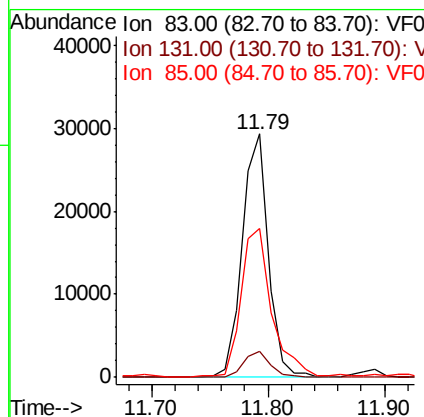
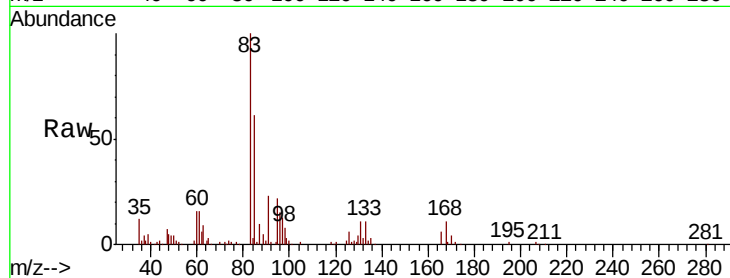
Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion:	83	Resp:	45407
Ion	Ratio	Lower	Upper
83	100		
131	10.6	5.3	15.9
85	61.1	34.5	103.5



#76

1,2,3-Trichloropropane

Concen: 20.182 ug/l

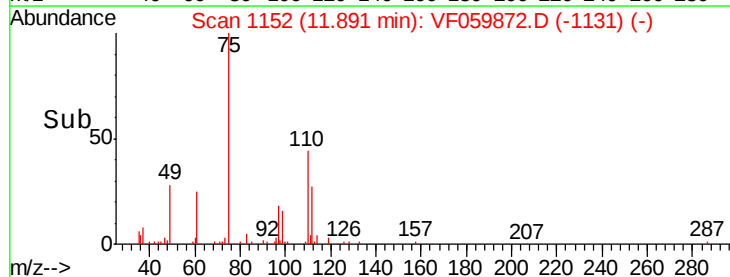
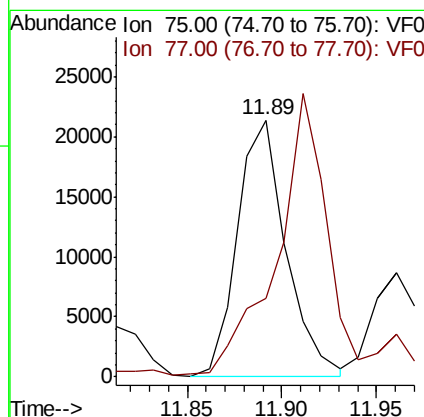
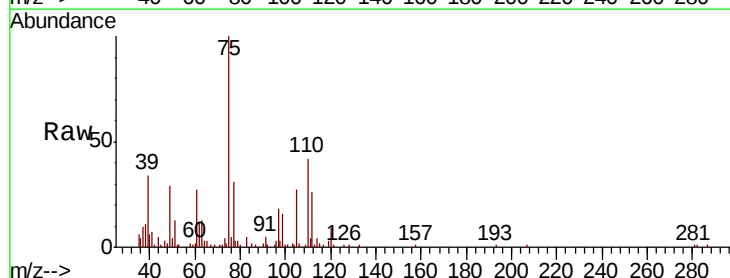
RT: 11.89 min Scan# 1152

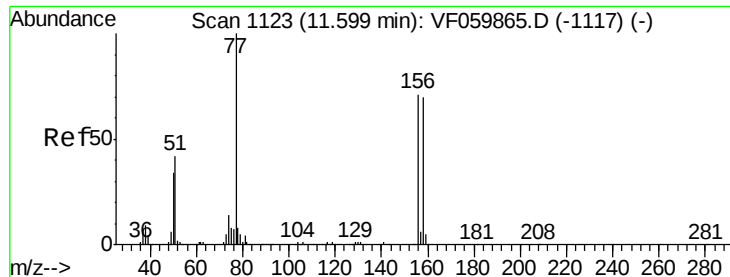
Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Tgt Ion:	75	Resp:	38020
Ion	Ratio	Lower	Upper
75	100		
77	30.9	15.4	46.2





#77

Bromobenzene

Concen: 20.620 ug/l

RT: 11.60 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

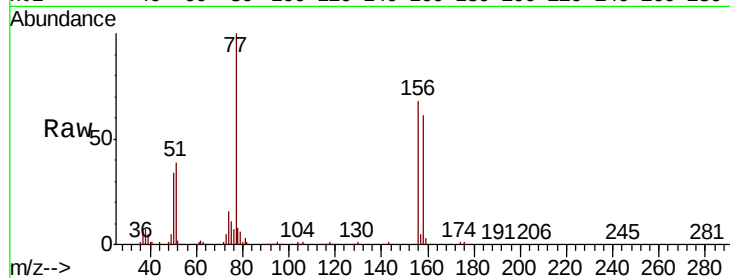
Tot Ion:156 Resp: 65509

Ion Ratio Lower Upper

156 100

77 147.2 70.2 210.6

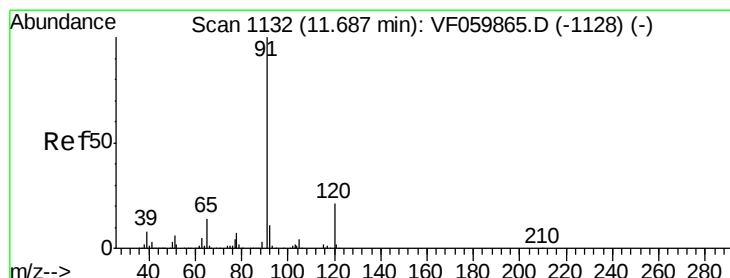
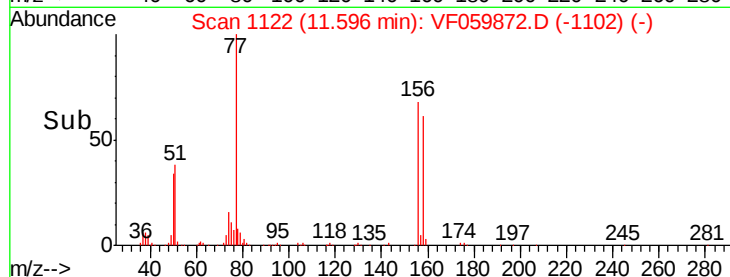
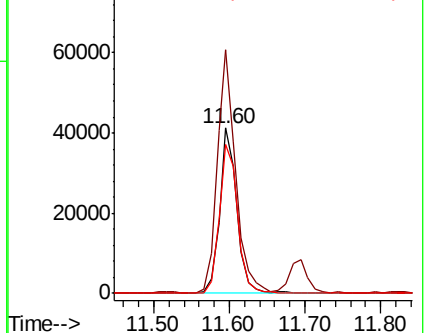
158 90.1 49.2 147.6



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: 21.632 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VF059872.D

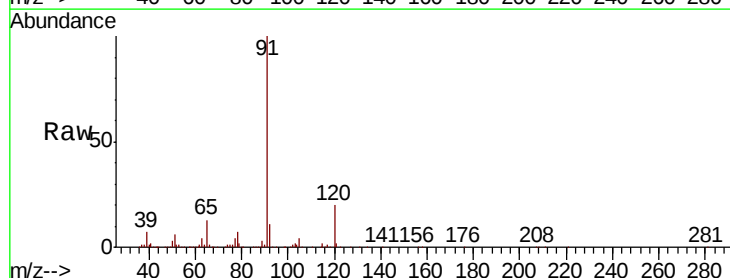
Acq: 4 Aug 2018 8:52

Tgt Ion: 91 Resp: 298449

Ion Ratio Lower Upper

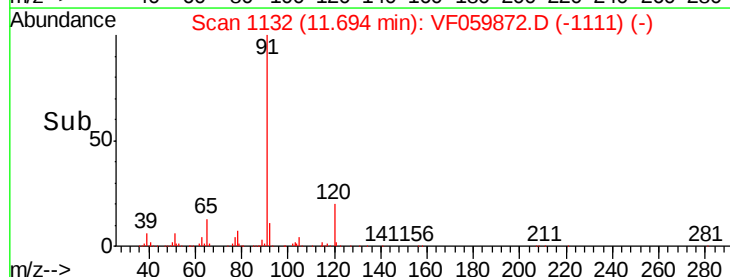
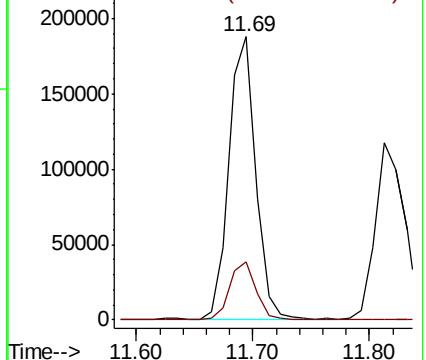
91 100

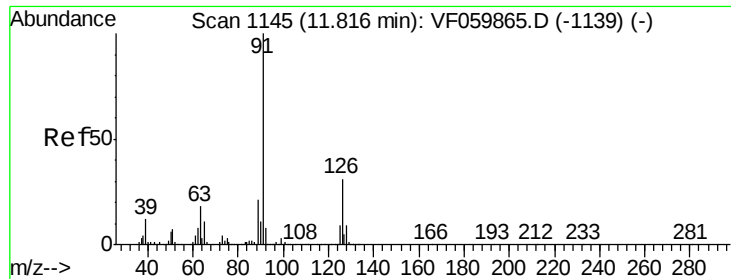
120 20.4 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

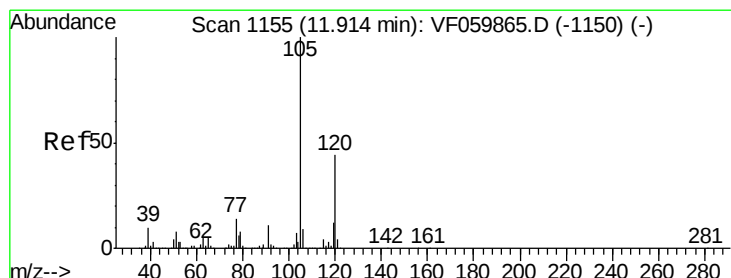
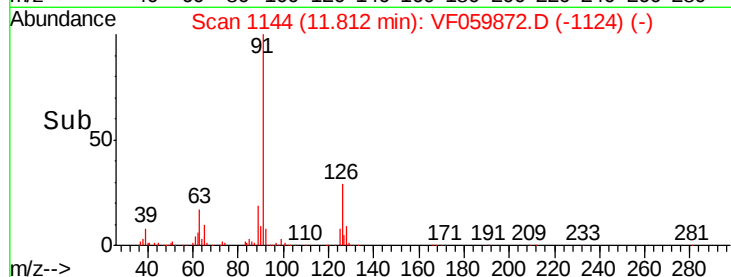
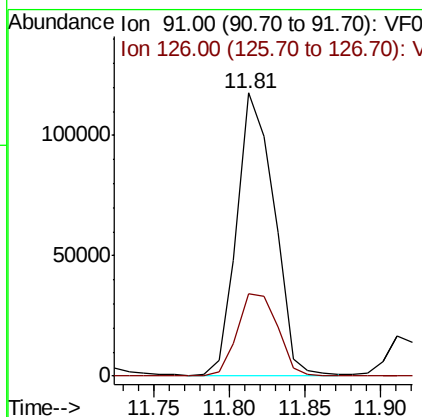
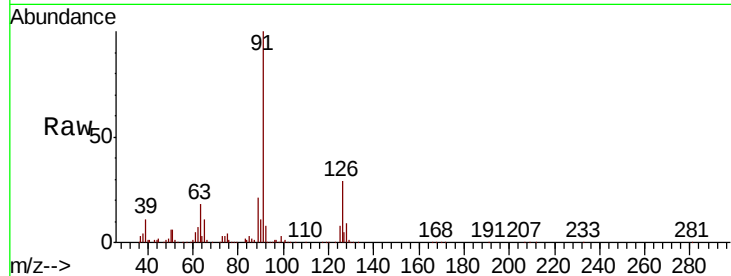




#79
 2-Chlorotoluene
 Concen: 23.045 ug/l
 RT: 11.81 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

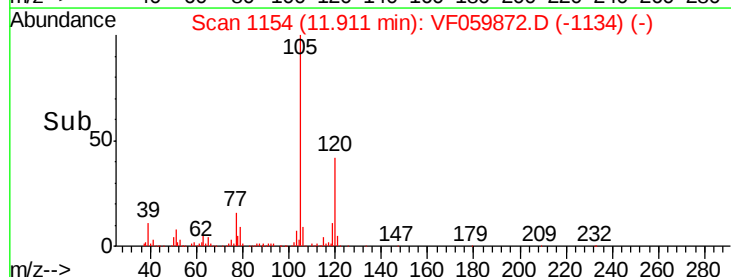
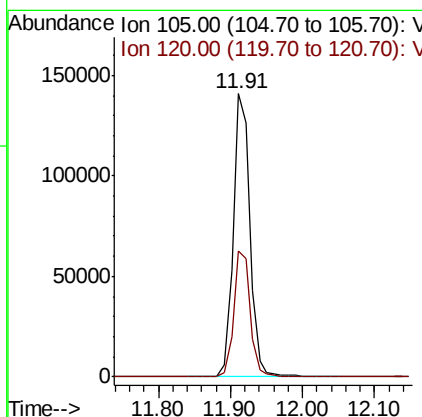
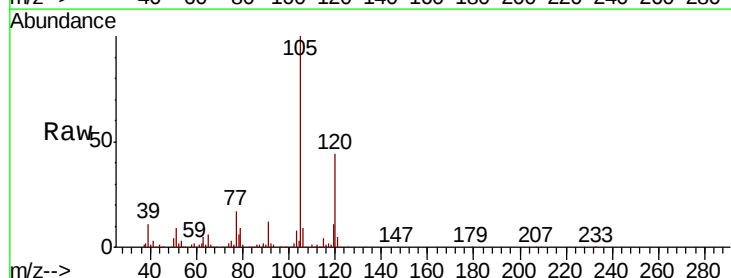
Instrument :
 MSVOA_F
 ClientSampleId :

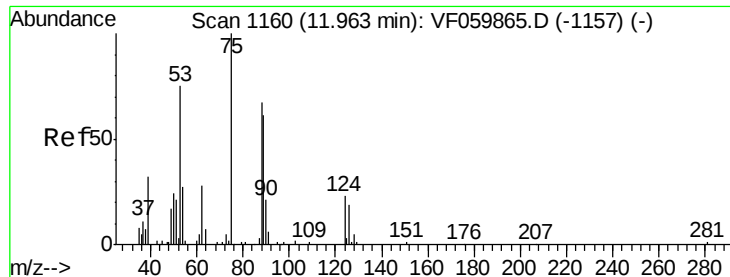
Tot Ion: 91 Resp: 201123
 Ion Ratio Lower Upper
 91 100
 126 28.9 15.6 46.7



#80
 1,3,5-Trimethylbenzene
 Concen: 20.933 ug/l
 RT: 11.91 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion:105 Resp: 227084
 Ion Ratio Lower Upper
 105 100
 120 44.4 21.9 65.7





#81

trans-1,4-Dichloro-2-butene

Concen: 31.269 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

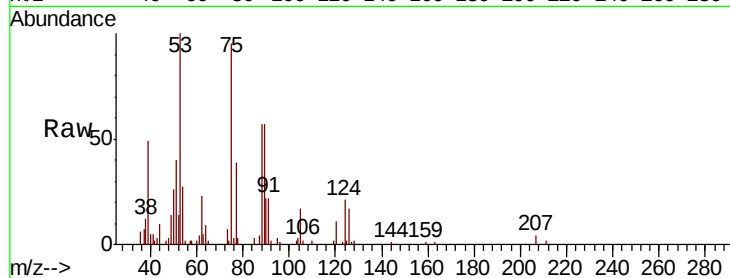
Tot Ion: 75 Resp: 21159

Ion Ratio Lower Upper

75 100

53 105.8 65.9 98.9#

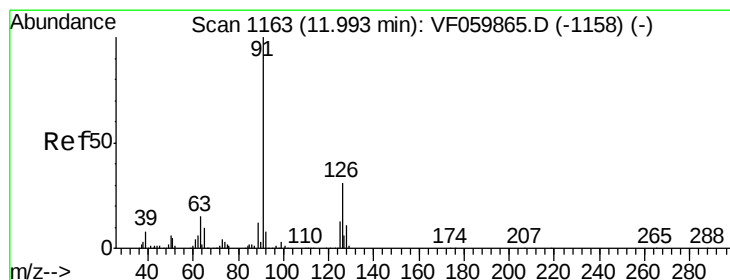
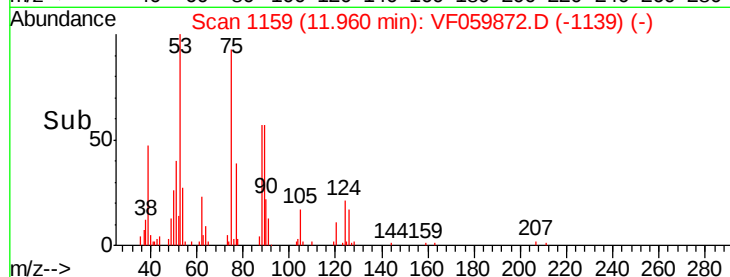
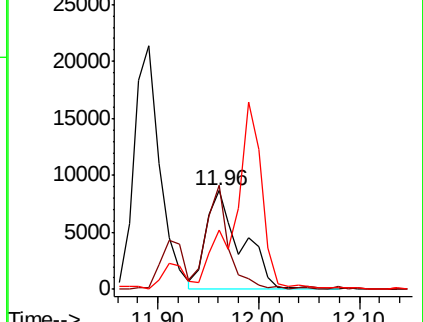
89 60.1 50.6 76.0



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: 20.738 ug/l

RT: 11.99 min Scan# 1162

Delta R.T. -0.00 min

Lab File: VF059872.D

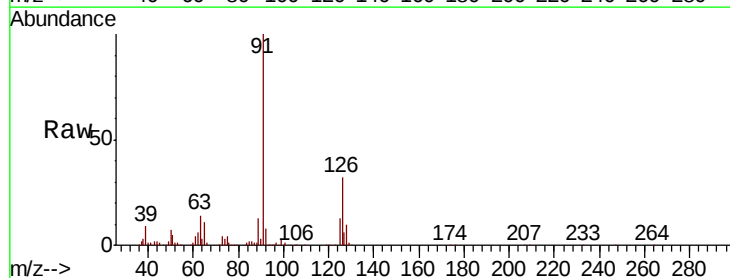
Acq: 4 Aug 2018 8:52

Tgt Ion: 91 Resp: 196523

Ion Ratio Lower Upper

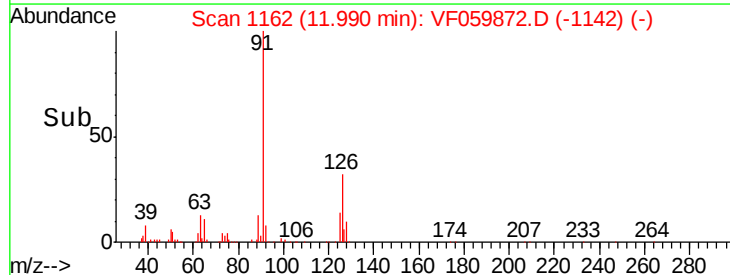
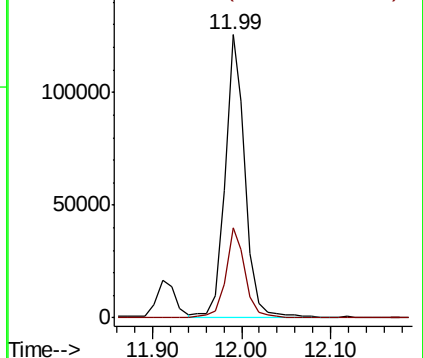
91 100

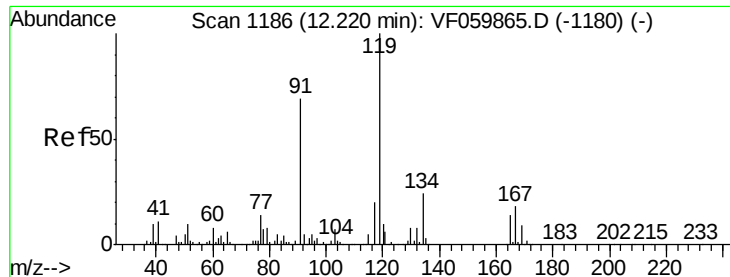
126 31.7 15.7 47.0



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 21.998 ug/l

RT: 12.22 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

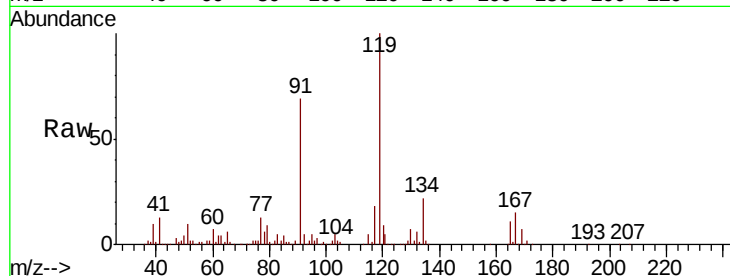
Tot Ion:119 Resp: 232282

Ion Ratio Lower Upper

119 100

91 68.6 34.4 103.2

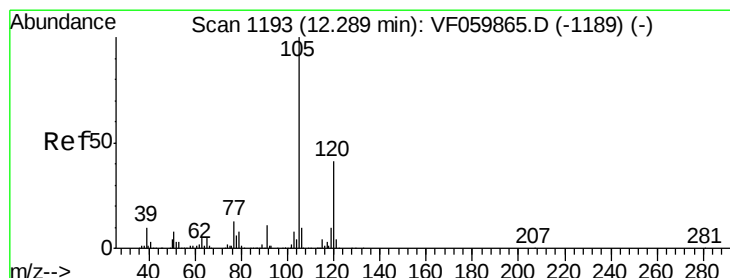
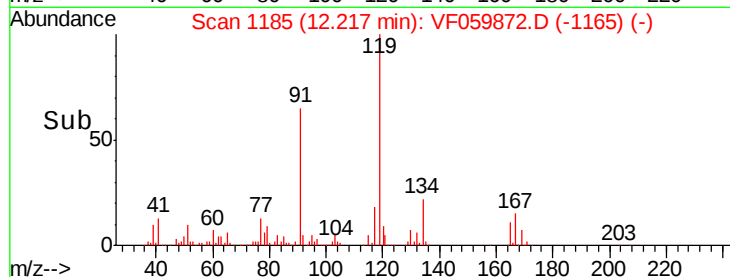
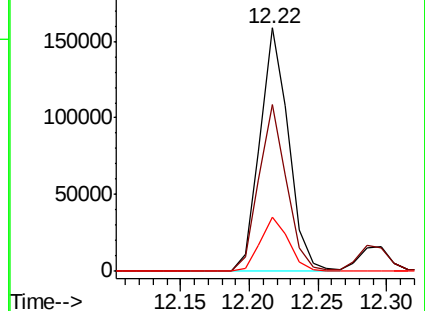
134 22.4 12.1 36.3



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: 21.370 ug/l

RT: 12.29 min Scan# 1192

Delta R.T. -0.00 min

Lab File: VF059872.D

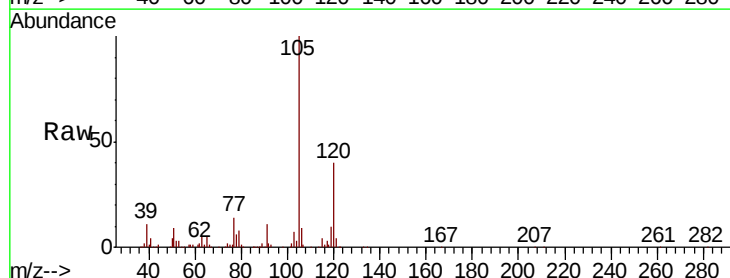
Acq: 4 Aug 2018 8:52

Tgt Ion:105 Resp: 238424

Ion Ratio Lower Upper

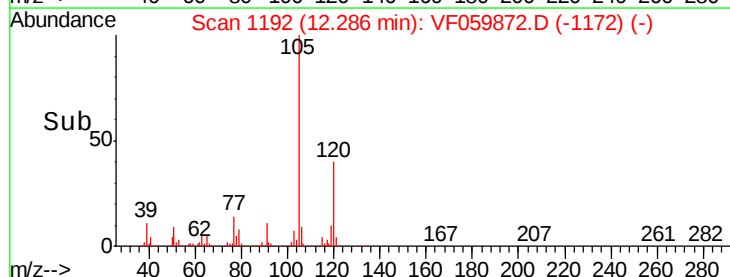
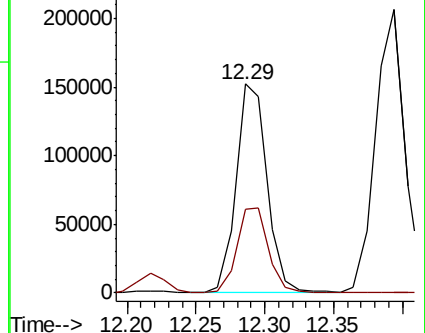
105 100

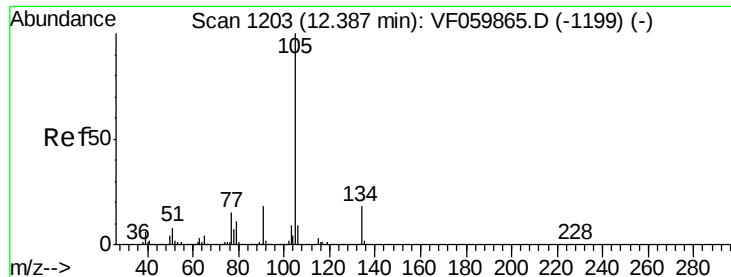
120 40.3 20.8 62.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

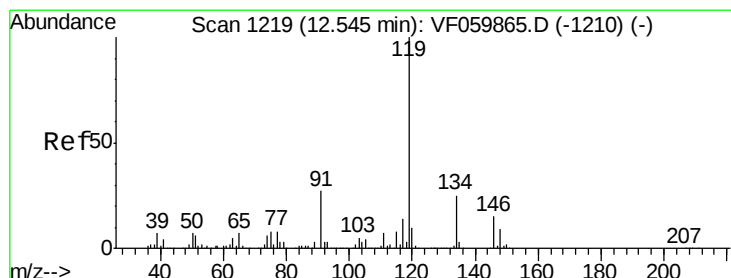
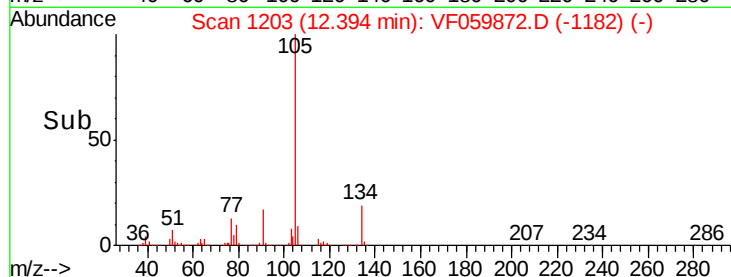
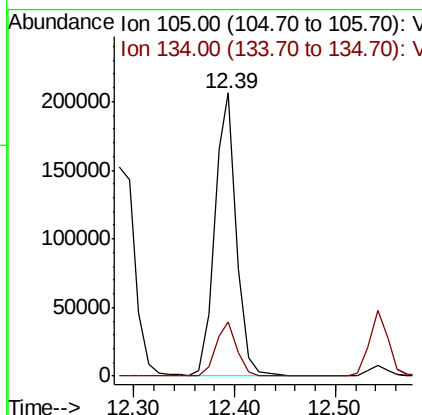
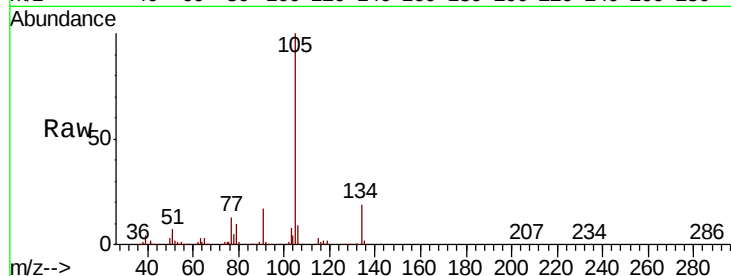




#85
 sec-Butylbenzene
 Concen: 21.836 ug/l
 RT: 12.39 min Scan# 1203
 Delta R.T. 0.01 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

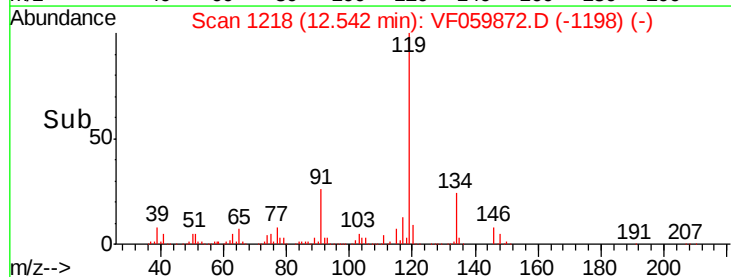
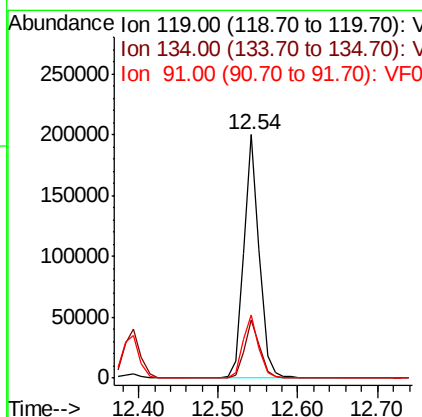
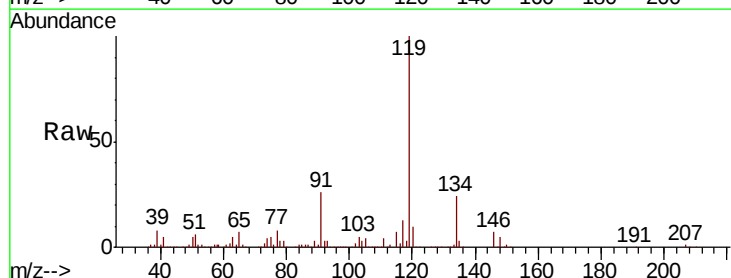
Instrument :
 MSVOA_F
 ClientSampleId :

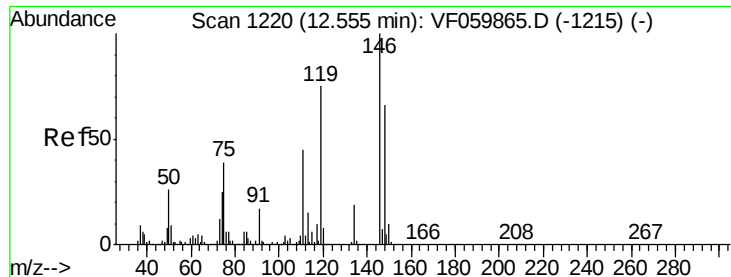
Tot Ion:105 Resp: 306368
 Ion Ratio Lower Upper
 105 100
 134 19.4 9.1 27.3



#86
 p-Isopropyltoluene
 Concen: 22.621 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion:119 Resp: 266763
 Ion Ratio Lower Upper
 119 100
 134 24.0 12.4 37.0
 91 26.0 13.6 40.7





#87

1,3-Dichlorobenzene

Concen: 21.414 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

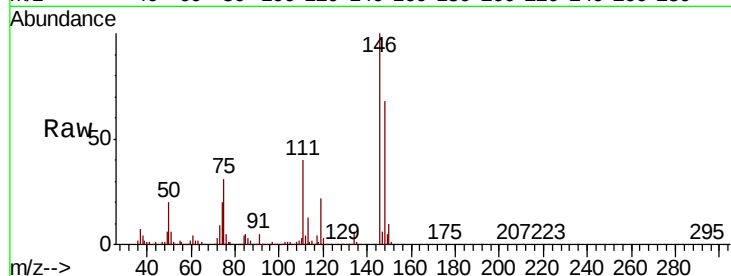
Tot Ion:146 Resp: 128903

Ion Ratio Lower Upper

146 100

111 40.5 22.4 67.0

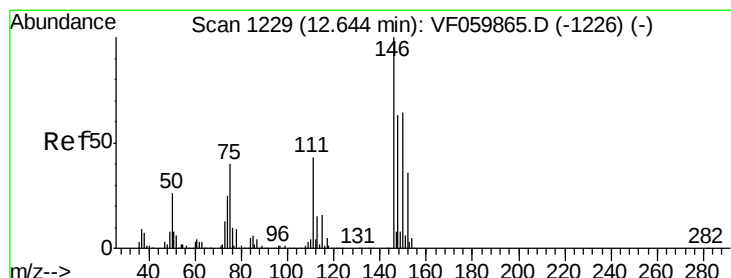
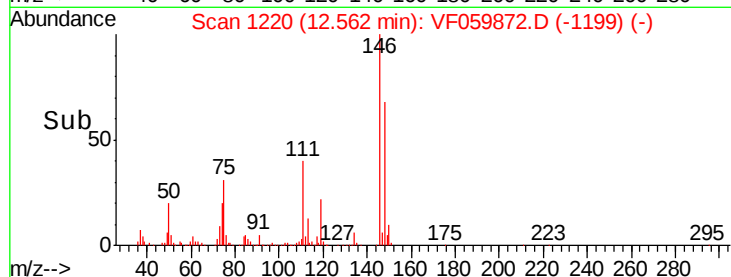
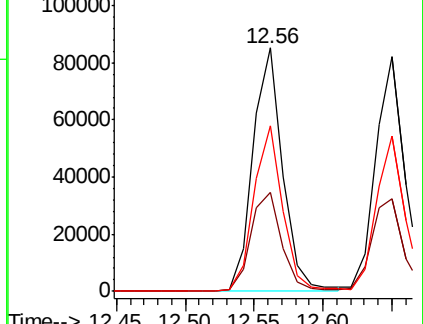
148 68.1 33.1 99.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 20.546 ug/l

RT: 12.65 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

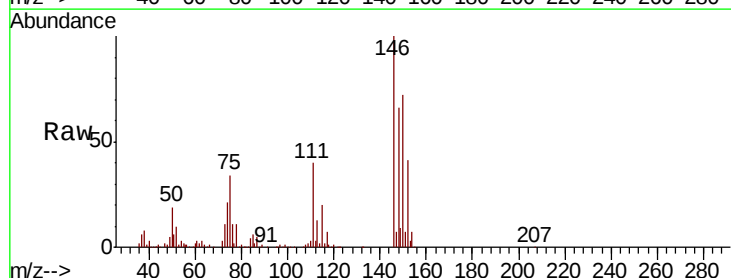
Tgt Ion:146 Resp: 121418

Ion Ratio Lower Upper

146 100

111 39.7 21.4 64.2

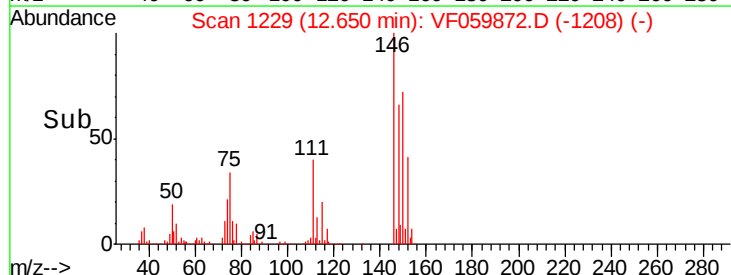
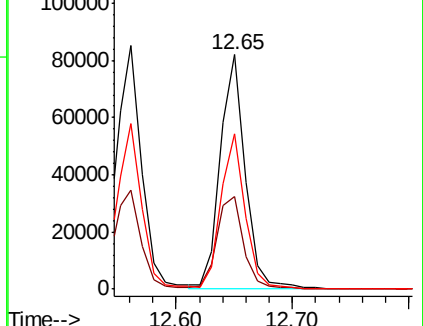
148 66.2 31.6 94.7

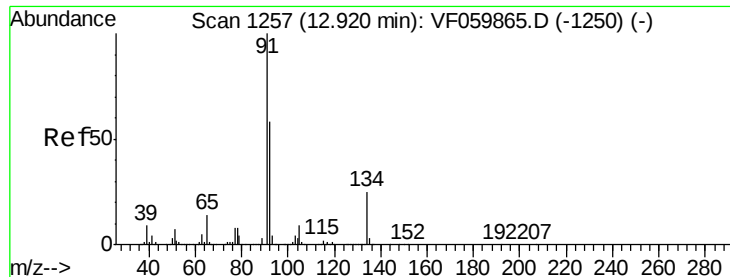


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

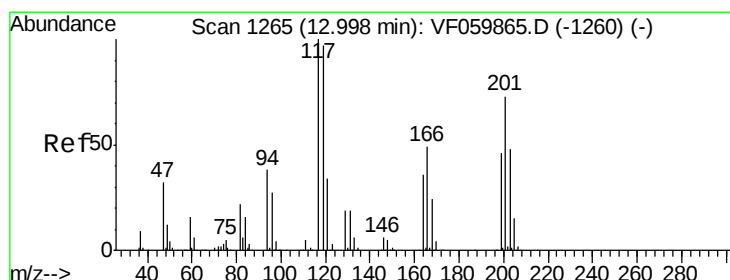
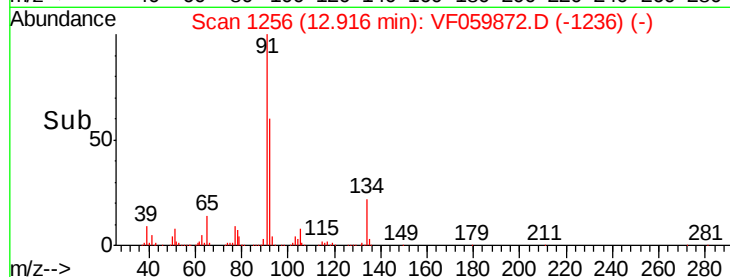
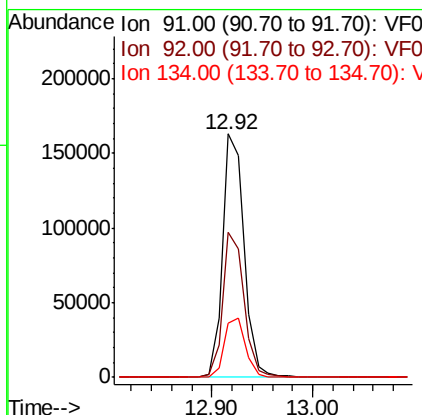
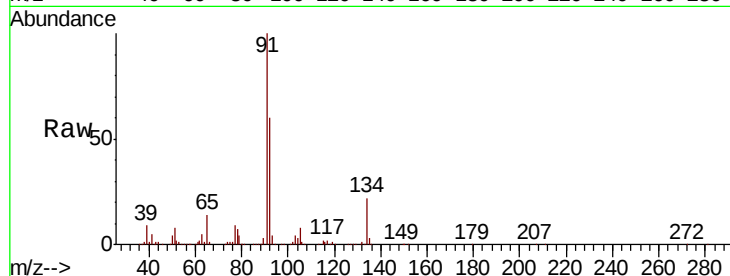




#89
n-Butylbenzene
Concen: 21.599 ug/l
RT: 12.92 min Scan# 1256
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

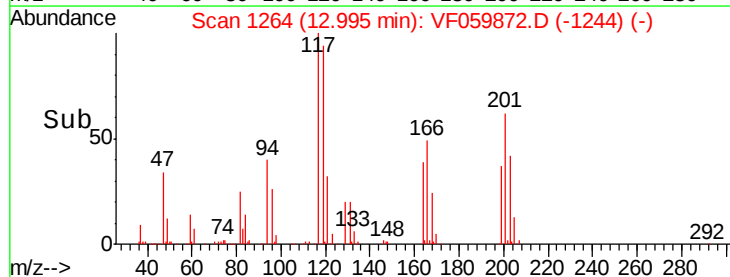
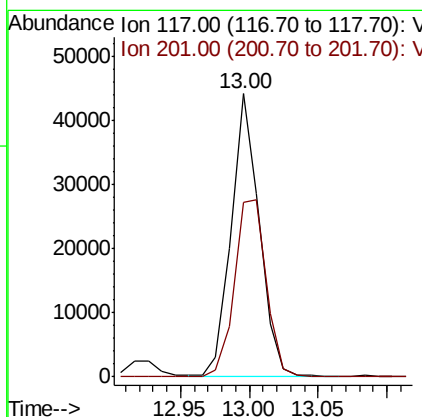
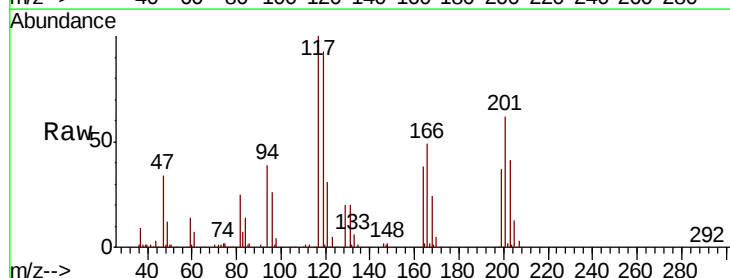
Instrument :
MSVOA_F
ClientSampled :

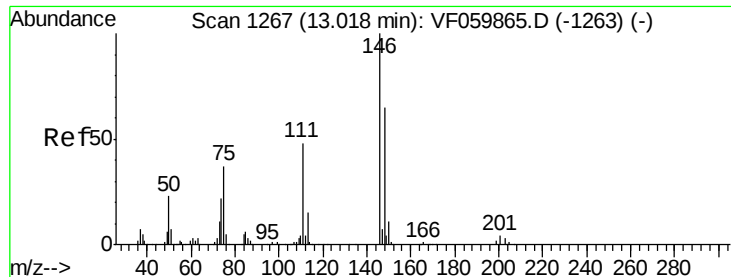
Tot Ion	Ratio	Lower	Upper
91	100		
92	59.8	28.8	86.5
134	22.4	12.6	37.6



#90
Hexachloroethane
Concen: 19.187 ug/l
RT: 13.00 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VF059872.D
Acq: 4 Aug 2018 8:52

Tgt Ion	Ratio	Lower	Upper
117	100		
201	61.7	36.6	109.8





#91

1,2-Dichlorobenzene

Concen: 21.542 ug/l

RT: 13.02 min Scan# 1267

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

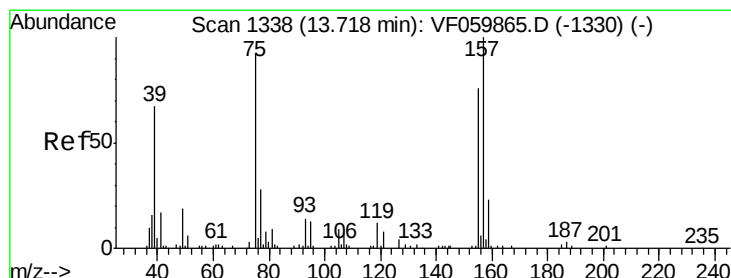
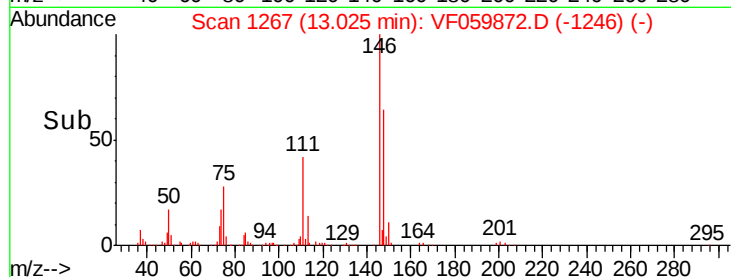
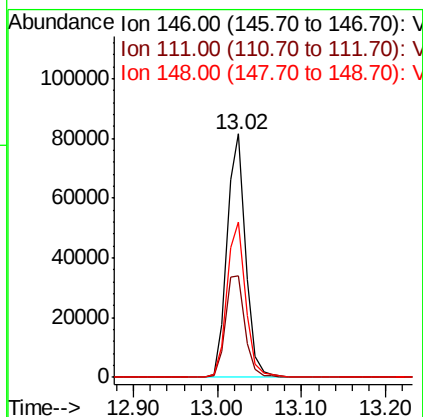
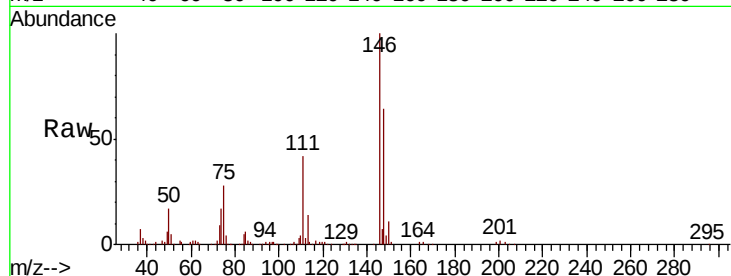
Tot Ion:146 Resp: 124790

Ion Ratio Lower Upper

146 100

111 41.6 24.1 72.2

148 63.9 32.8 98.3



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.686 ug/l

RT: 13.71 min Scan# 1337

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

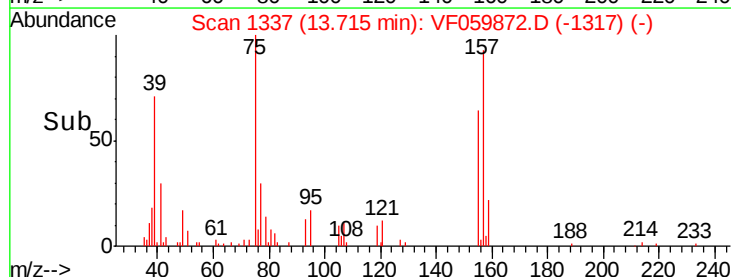
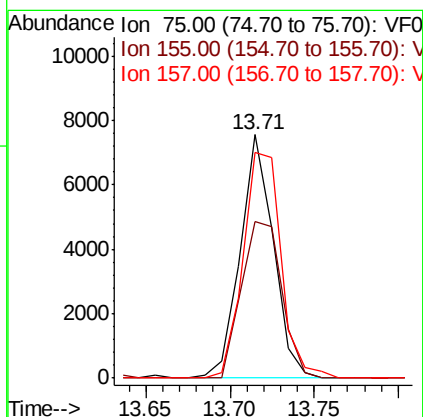
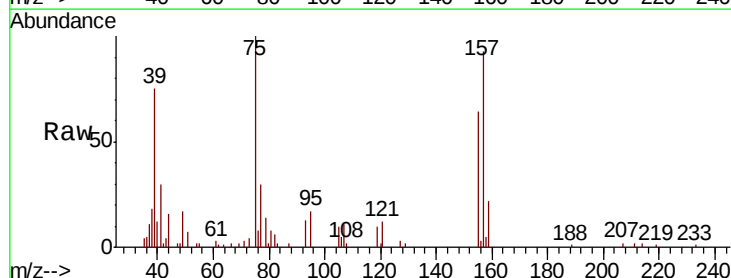
Tgt Ion: 75 Resp: 10332

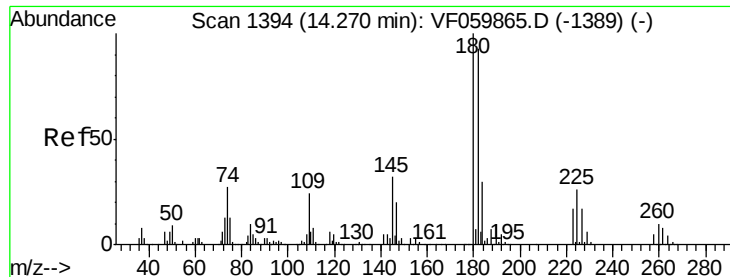
Ion Ratio Lower Upper

75 100

155 64.1 41.2 123.6

157 92.8 54.5 163.6

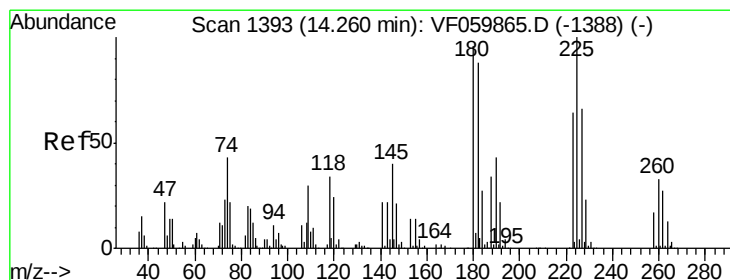
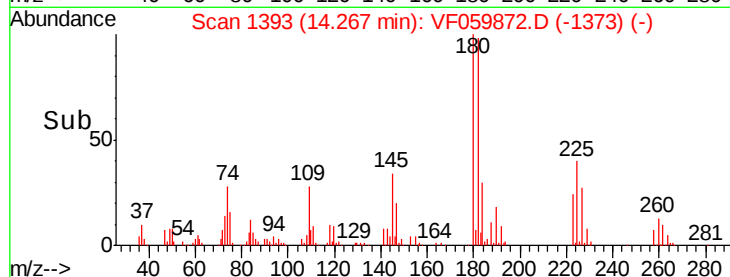
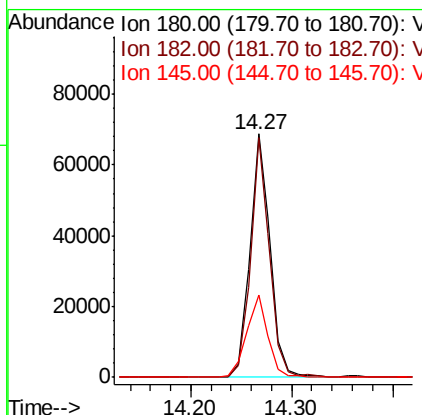
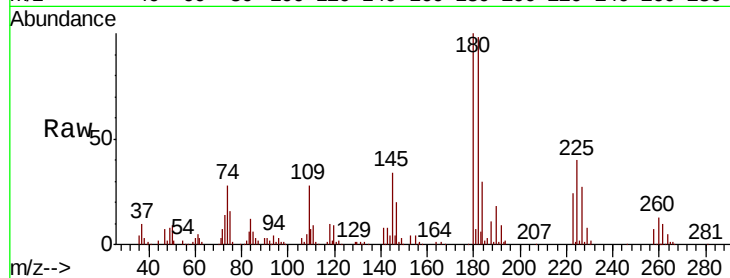




#93
 1,2,4-Trichlorobenzene
 Concen: 21.863 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

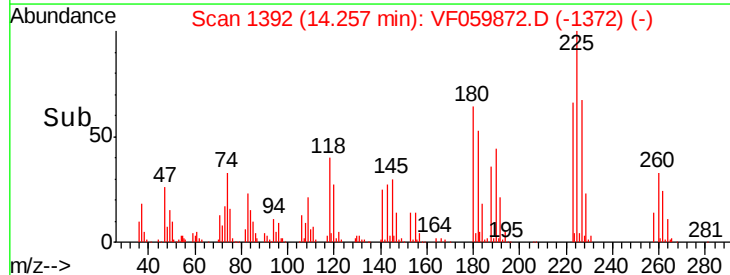
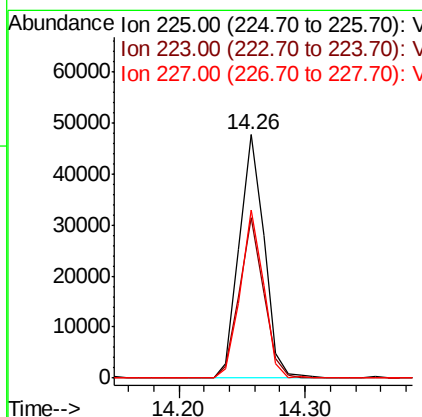
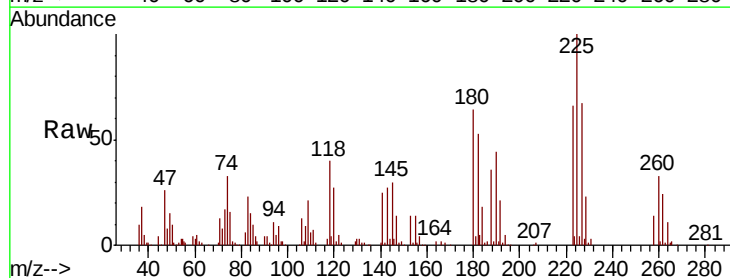
Instrument :
 MSVOA_F
 ClientSampleId :

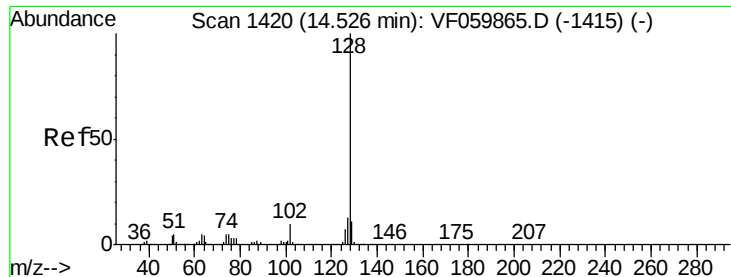
Tot Ion	Ratio	Lower	Upper
180	100		
182	98.5	46.4	139.2
145	33.7	15.9	47.7



#94
 Hexachlorobutadiene
 Concen: 21.029 ug/l
 RT: 14.26 min Scan# 1392
 Delta R.T. -0.00 min
 Lab File: VF059872.D
 Acq: 4 Aug 2018 8:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.8	31.9	95.9
227	69.3	32.8	98.4





#95

Naphthalene

Concen: 20.513 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

Instrument :

MSVOA_F

ClientSampleId :

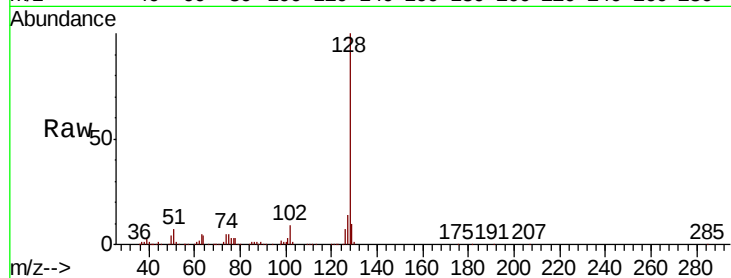
Tot Ion:128 Resp: 156200

Ion Ratio Lower Upper

128 100

127 14.0 10.4 15.6

129 10.5 9.0 13.6

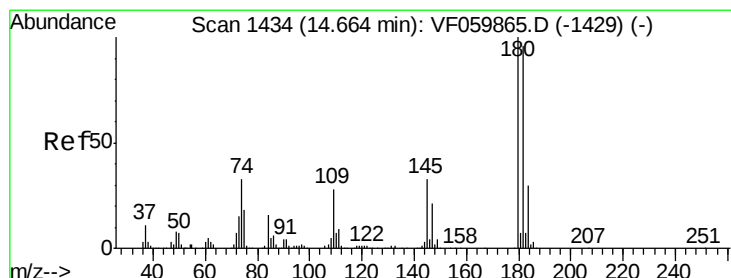
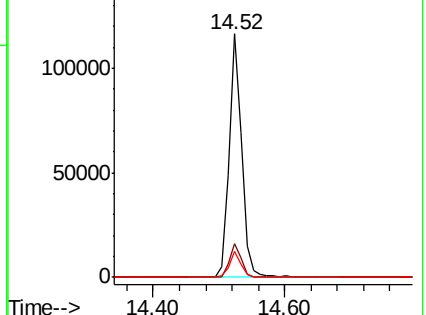
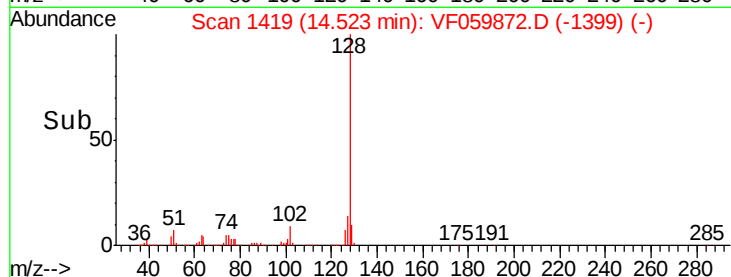


Abundance

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: 21.766 ug/l

RT: 14.67 min Scan# 1434

Delta R.T. 0.01 min

Lab File: VF059872.D

Acq: 4 Aug 2018 8:52

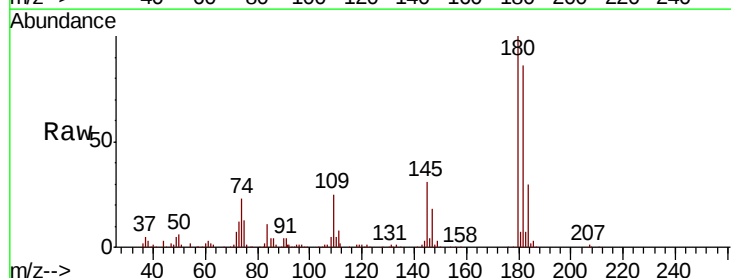
Tgt Ion:180 Resp: 94535

Ion Ratio Lower Upper

180 100

182 86.4 48.1 144.3

145 31.2 16.6 49.8



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

