

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080418\
 Data File : VF059871.D
 Acq On : 4 Aug 2018 8:24
 Operator : VA/AP
 Sample : VF0802SBS02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Aug 06 02:16:34 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	213355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	306685	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	305497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	197522	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	193462	50.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.60%	
35) Dibromofluoromethane	4.30	113	152204	49.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.76%	
50) Toluene-d8	7.72	98	346700	53.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.80%	
62) 4-Bromofluorobenzene	11.51	95	195973	53.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.99	85	66138	18.143	ug/l	99
3) Chloromethane	1.08	50	34043	20.189	ug/l	91
4) Vinyl Chloride	1.15	62	32158	18.616	ug/l	91
5) Bromomethane	1.34	94	27391	16.799	ug/l	96
6) Chloroethane	1.42	64	20618	19.003	ug/l	99
7) Trichlorofluoromethane	1.54	101	54637	11.556	ug/l	93
8) Diethyl Ether	1.70	74	13207	17.603	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	1.90	101	45479	17.431	ug/l	98
10) Methyl Iodide	1.96	142	74096	18.486	ug/l	97
11) Tert butyl alcohol	2.69	59	12948	83.454	ug/l	100
12) 1,1-Dichloroethene	1.85	96	36076	18.929	ug/l	89
13) Acrolein	2.10	56	5745	61.787	ug/l #	69
14) Allyl chloride	2.19	41	54984	17.304	ug/l	93
15) Acrylonitrile	3.07	53	22561	79.355	ug/l #	76
16) Acetone	2.35	43	63523	89.458	ug/l	98
17) Carbon Disulfide	1.89	76	96486	18.965	ug/l	98
18) Methyl Acetate	2.45	43	21201	17.699	ug/l #	90
19) Methyl tert-butyl Ether	2.54	73	98268	18.212	ug/l	97
20) Methylene Chloride	2.28	84	40437	19.184	ug/l	96
21) trans-1,2-Dichloroethene	2.41	96	35144	18.564	ug/l	96
22) Diisopropyl ether	2.94	45	113783	18.614	ug/l #	93
23) Vinyl Acetate	3.34	43	282544	95.482	ug/l	99
24) 1,1-Dichloroethane	3.01	63	81609	18.333	ug/l	98
25) 2-Butanone	4.51	43	70633	91.480	ug/l	98
26) 2,2-Dichloropropane	3.76	77	49417	19.069	ug/l	99
27) cis-1,2-Dichloroethene	3.64	96	41771	19.623	ug/l	83
28) Bromochloromethane	3.89	49	31084	19.775	ug/l	86
29) Tetrahydrofuran	4.27	42	29355	103.274	ug/l	91
30) Chloroform	4.04	83	109262	18.143	ug/l	98
31) Cyclohexane	3.86	56	46085	20.917	ug/l	97
32) 1,1,1-Trichloroethane	4.28	97	88638	18.398	ug/l	98
36) 1,1-Dichloropropene	4.46	75	64807	18.269	ug/l	94
37) Ethyl Acetate	4.30	43	33701	22.126	ug/l	80
38) Carbon Tetrachloride	4.18	117	106088	20.891	ug/l	97

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 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)
39) Methylcyclohexane	5.64	83	55658	20.922	ug/l	98
40) Benzene	4.82	78	130634	19.606	ug/l	97
41) Methacrylonitrile	4.93	41	13289	16.533	ug/l #	79
42) 1,2-Dichloroethane	5.13	62	85539	17.414	ug/l	97
43) Isopropyl Acetate	7.12	43	30522	19.461	ug/l	92
44) Trichloroethene	5.68	130	47183	19.971	ug/l	92
45) 1,2-Dichloropropane	6.41	63	30489	18.729	ug/l	93
46) Dibromomethane	6.27	93	30752	18.722	ug/l	87
47) Bromodichloromethane	6.55	83	81399	18.118	ug/l	92
48) Methyl methacrylate	6.88	41	22591	18.515	ug/l #	88
49) 1,4-Dioxane	6.87	88	2763	370.280	ug/l #	82
51) 4-Methyl-2-Pentanone	8.41	43	154971	96.642	ug/l	98
52) Toluene	7.79	92	88521	19.757	ug/l	93
53) t-1,3-Dichloropropene	8.44	75	64759	18.950	ug/l	98
54) cis-1,3-Dichloropropene	7.46	75	69194	19.619	ug/l	95
55) 1,1,2-Trichloroethane	8.64	97	33078	20.509	ug/l	99
56) Ethyl methacrylate	8.77	69	29305	18.814	ug/l	86
57) 1,3-Dichloropropane	9.01	76	52793	19.063	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.79	63	19275	90.334	ug/l	100
59) 2-Hexanone	9.64	43	111030	98.018	ug/l	96
60) Dibromochloromethane	8.87	129	56034	18.519	ug/l	92
61) 1,2-Dibromoethane	9.15	107	37574	19.120	ug/l	100
64) Tetrachloroethene	8.31	164	52931	20.085	ug/l	98
65) Chlorobenzene	9.95	112	117965	19.024	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.07	131	56176	18.212	ug/l	91
67) Ethyl Benzene	10.04	91	211488	19.577	ug/l	93
68) m/p-Xylenes	10.27	106	150578	40.322	ug/l	98
69) o-Xylene	10.83	106	82505	20.856	ug/l	93
70) Styrene	10.91	104	121272	20.543	ug/l	96
71) Bromoform	10.89	173	35133	18.585	ug/l	95
73) Isopropylbenzene	11.24	105	263699	21.434	ug/l	100
74) N-amyl acetate	11.46	43	57093	20.602	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.79	83	46150	19.980	ug/l	96
76) 1,2,3-Trichloropropane	11.89	75	38949	19.632	ug/l	92
77) Bromobenzene	11.60	156	66513	19.880	ug/l	94
78) n-propylbenzene	11.69	91	308578	21.238	ug/l	100
79) 2-Chlorotoluene	11.82	91	188740	20.536	ug/l	97
80) 1,3,5-Trimethylbenzene	11.92	105	231263	20.243	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.96	75	20674	29.012	ug/l #	85
82) 4-Chlorotoluene	12.00	91	196037	19.644	ug/l	96
83) tert-Butylbenzene	12.22	119	232833	20.938	ug/l	96
84) 1,2,4-Trimethylbenzene	12.29	105	246496	20.979	ug/l	99
85) sec-Butylbenzene	12.39	105	306974	20.776	ug/l	99
86) p-Isopropyltoluene	12.54	119	258966	20.852	ug/l	98
87) 1,3-Dichlorobenzene	12.56	146	130280	20.551	ug/l	95
88) 1,4-Dichlorobenzene	12.65	146	124128	19.946	ug/l	99
89) n-Butylbenzene	12.92	91	247334	20.897	ug/l	99
90) Hexachloroethane	13.00	117	70039	20.437	ug/l	94
91) 1,2-Dichlorobenzene	13.02	146	125694	20.604	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.72	75	10827	18.593	ug/l	96

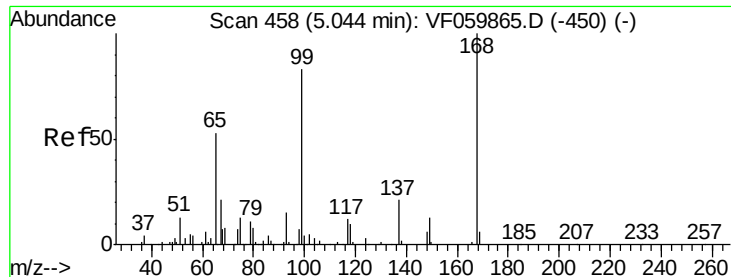
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF080418\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.27	180	92599	19.992	ug/l	96
94) Hexachlorobutadiene	14.26	225	66460	20.312	ug/l	99
95) Naphthalene	14.53	128	160780	20.050	ug/l	97
96) 1,2,3-Trichlorobenzene	14.67	180	90702	19.830	ug/l	97

(#) = 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. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

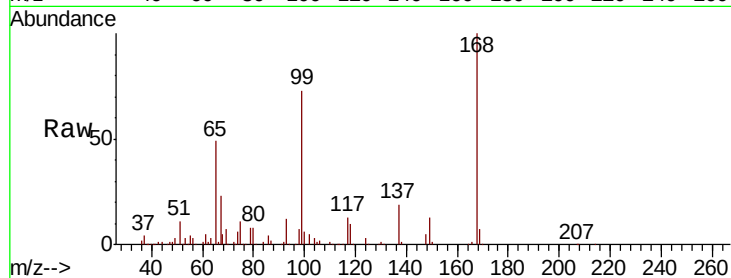
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 213355

Ion Ratio Lower Upper

168 100

99 72.8 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

80000

60000

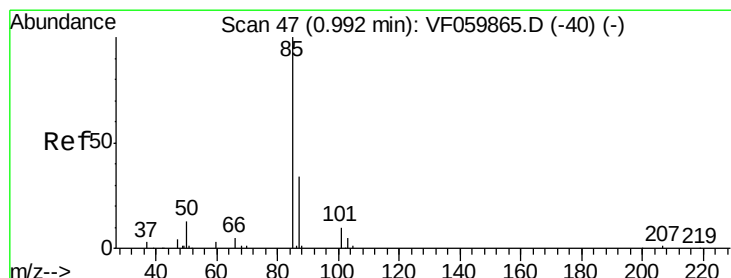
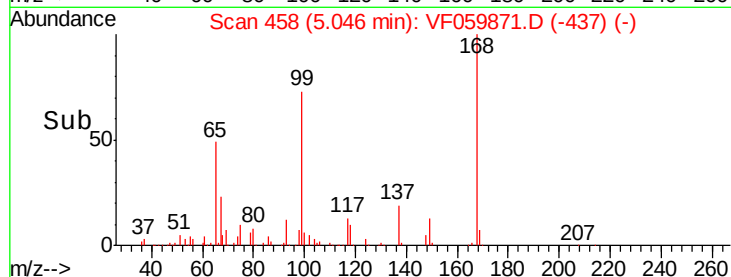
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: 18.143 ug/l

RT: 0.99 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF059871.D

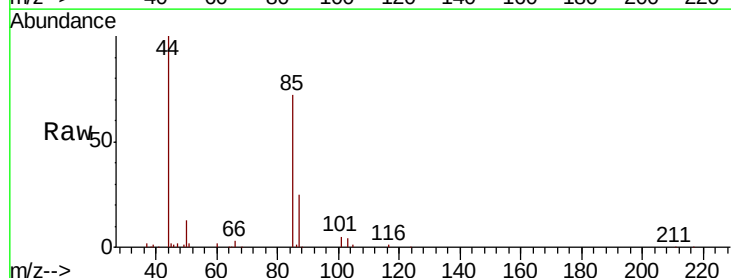
Acq: 4 Aug 2018 8:24

Tgt Ion: 85 Resp: 66138

Ion Ratio Lower Upper

85 100

87 34.3 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

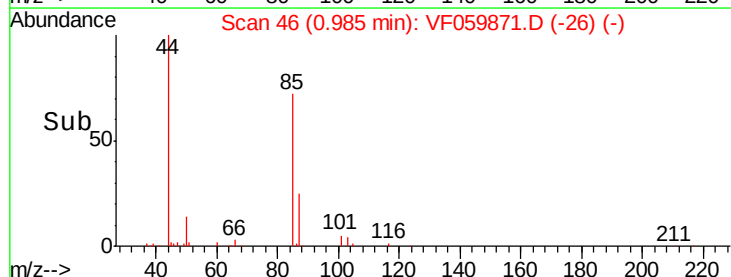
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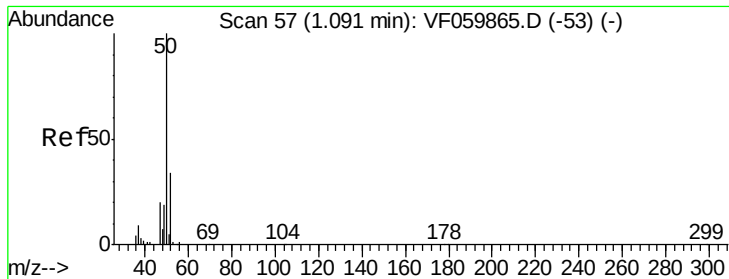
5000

0

Time-->

0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 20.189 ug/l

RT: 1.08 min Scan# 56

Delta R.T. -0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

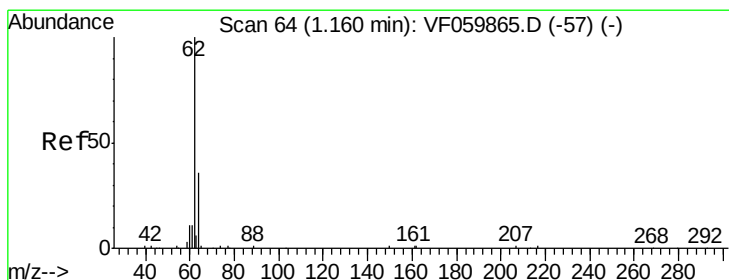
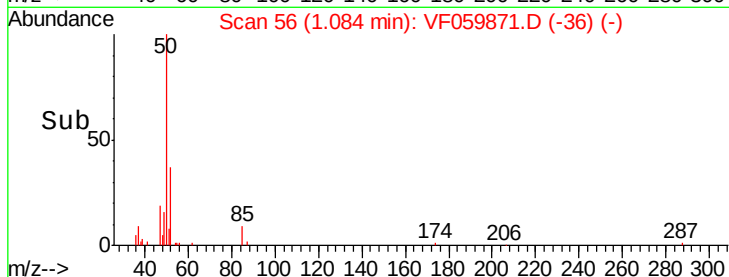
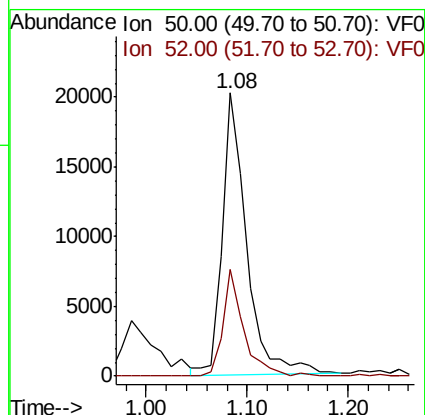
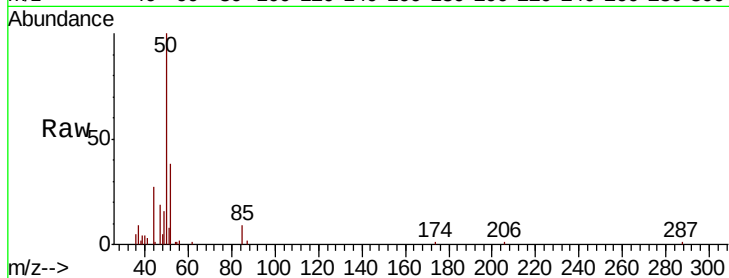
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 50 Resp: 34043

Ion Ratio Lower Upper

50 100

52 37.6 25.8 38.8



#4

Vinyl Chloride

Concen: 18.616 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.01 min

Lab File: VF059871.D

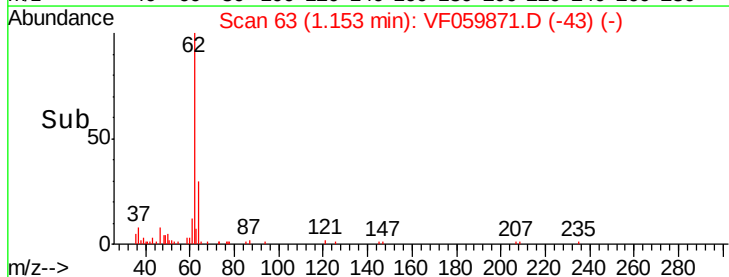
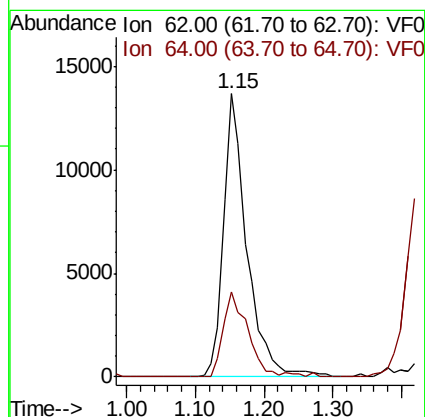
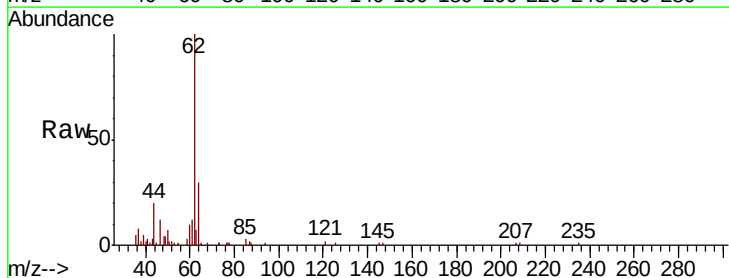
Acq: 4 Aug 2018 8:24

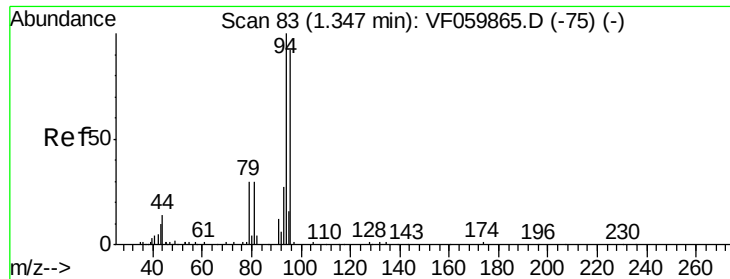
Tgt Ion: 62 Resp: 32158

Ion Ratio Lower Upper

62 100

64 30.2 28.5 42.7





#5

Bromomethane

Concen: 16.799 ug/l

RT: 1.34 min Scan# 82

Delta R.T. -0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

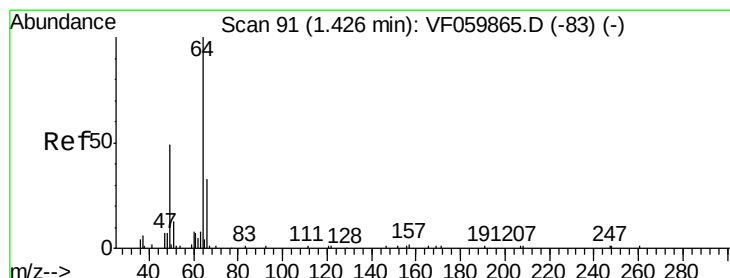
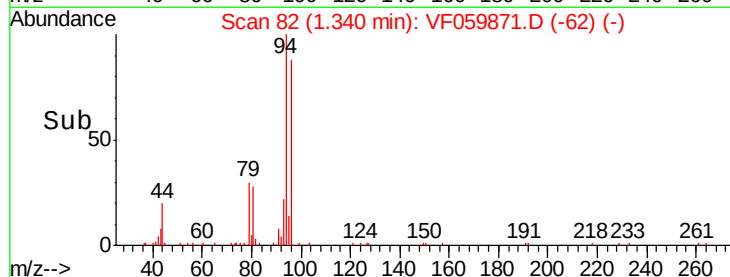
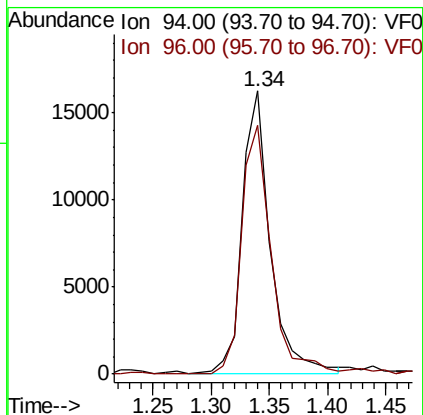
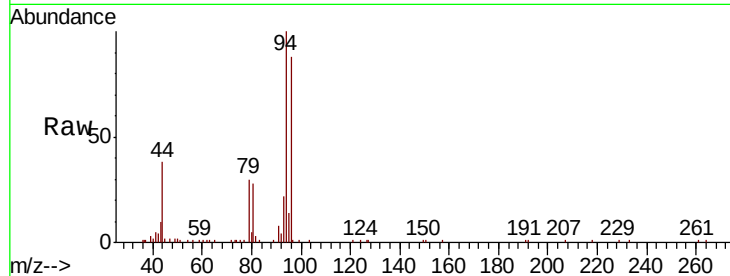
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 94 Resp: 27391

Ion Ratio Lower Upper

94 100

96 88.0 73.8 110.8



#6

Chloroethane

Concen: 19.003 ug/l

RT: 1.42 min Scan# 90

Delta R.T. -0.01 min

Lab File: VF059871.D

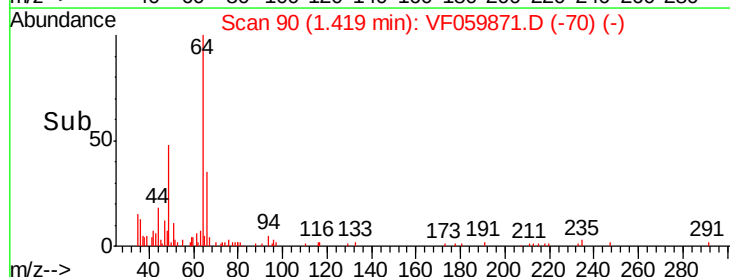
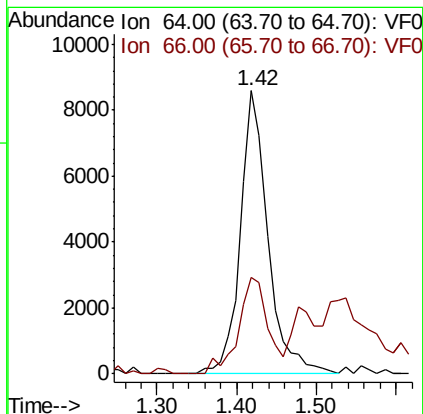
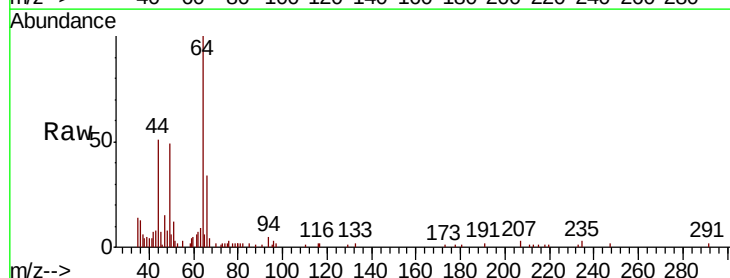
Acq: 4 Aug 2018 8:24

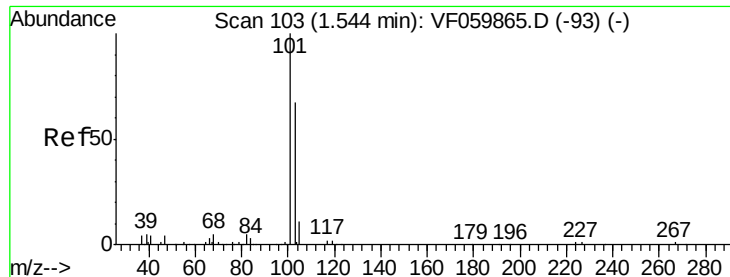
Tgt Ion: 64 Resp: 20618

Ion Ratio Lower Upper

64 100

66 34.2 26.9 40.3



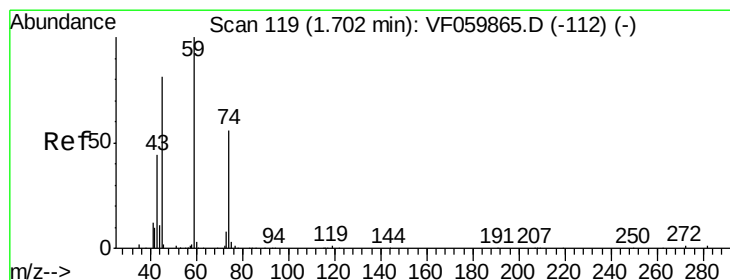
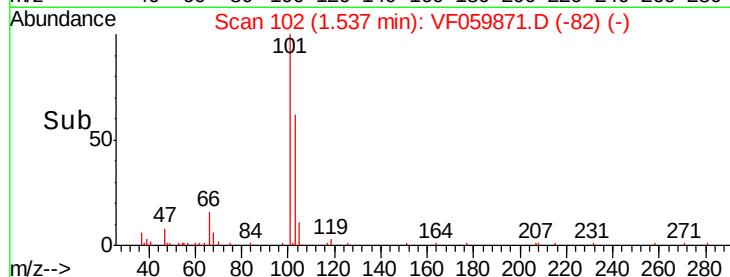
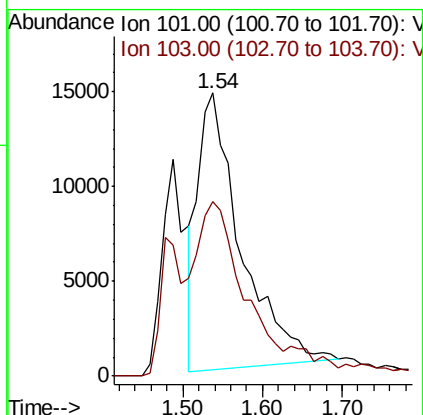
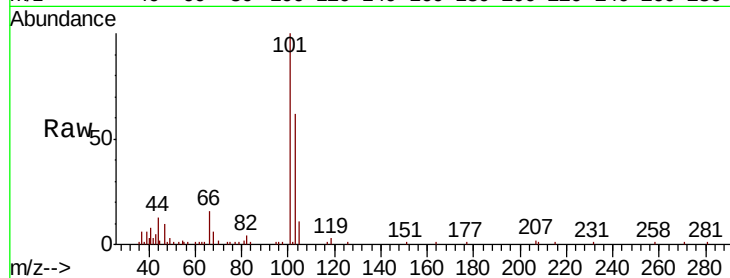


#7

Trichlorofluoromethane
Concen: 11.556 ug/l
RT: 1.54 min Scan# 102
Delta R.T. -0.01 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Instrument :
MSVOA_F
ClientSampleId :

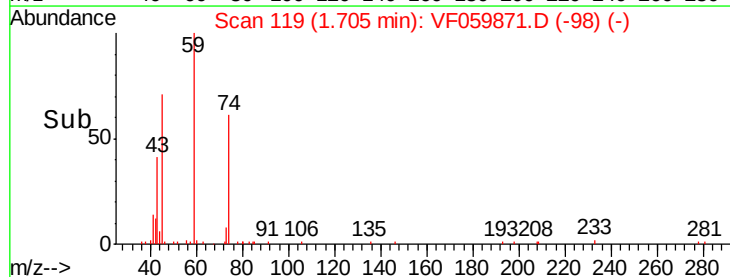
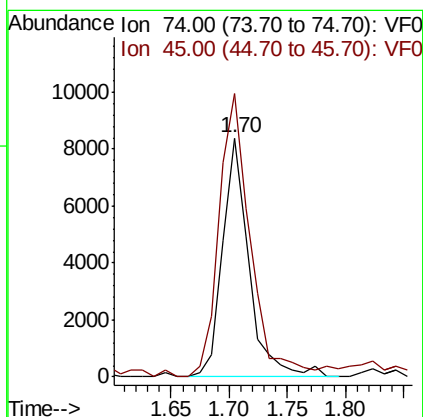
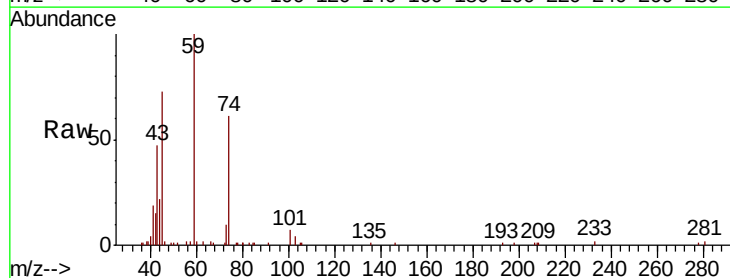
Tot Ion:101 Resp: 54637
Ion Ratio Lower Upper
101 100
103 61.7 53.6 80.4

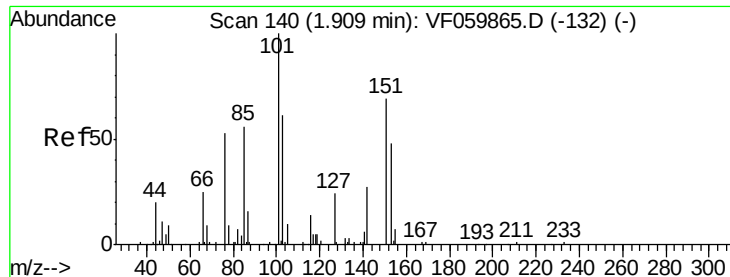


#8

Diethyl Ether
Concen: 17.603 ug/l
RT: 1.70 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 74 Resp: 13207
Ion Ratio Lower Upper
74 100
45 118.4 73.6 220.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.431 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampleId :

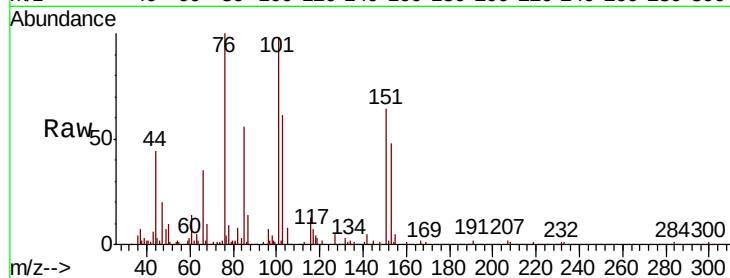
Tot Ion:101 Resp: 45479

Ion Ratio Lower Upper

101 100

85 57.1 44.5 66.7

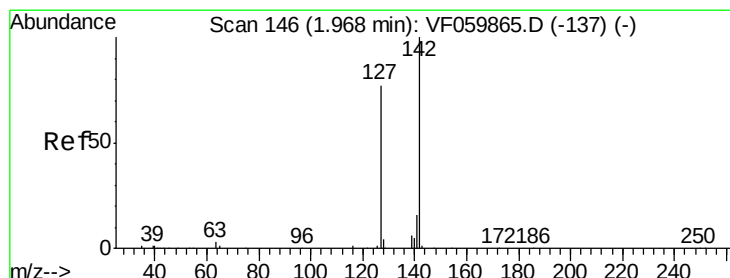
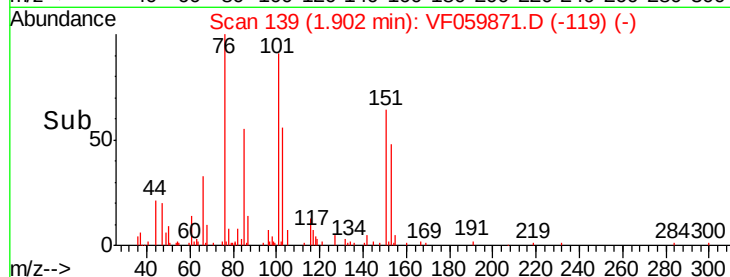
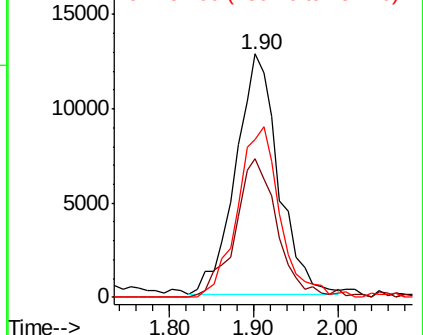
151 65.1 53.8 80.8



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: 18.486 ug/l

RT: 1.96 min Scan# 145

Delta R.T. -0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

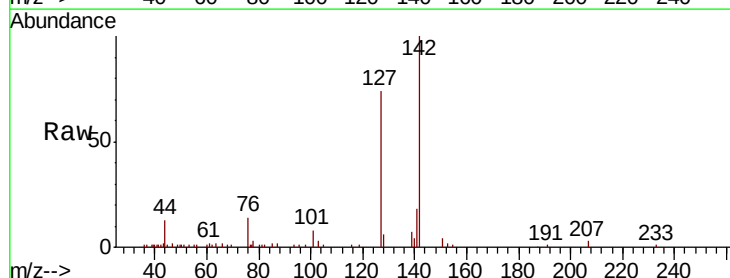
Tgt Ion:142 Resp: 74096

Ion Ratio Lower Upper

142 100

127 74.2 61.5 92.3

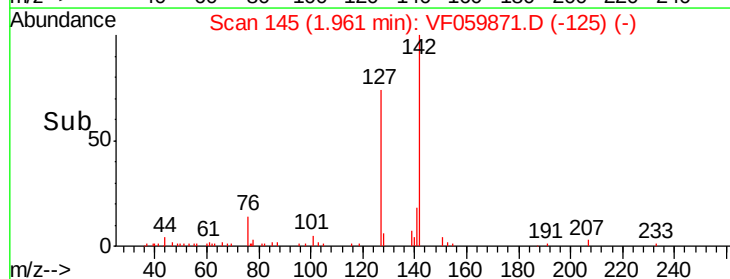
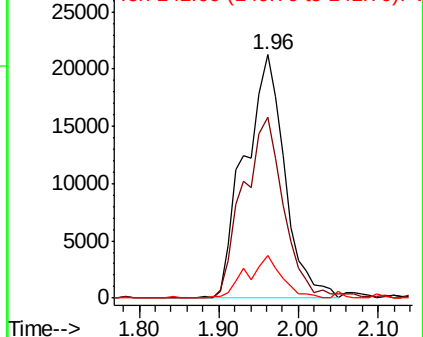
141 17.6 13.0 19.4

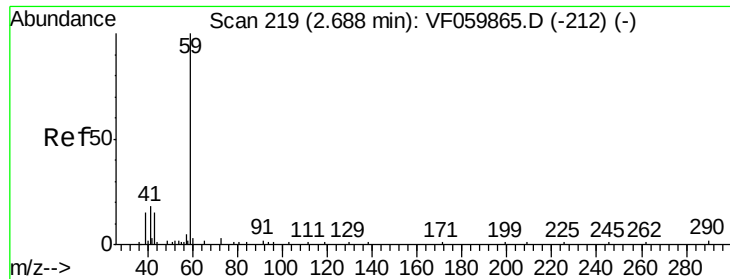


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

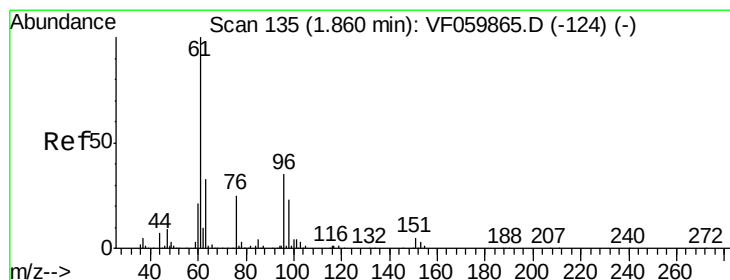
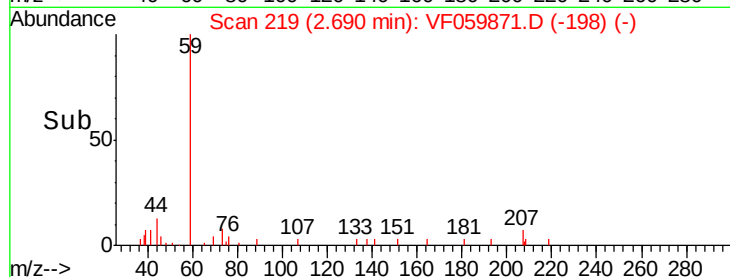
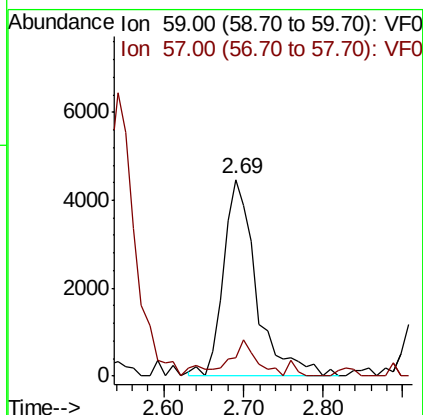
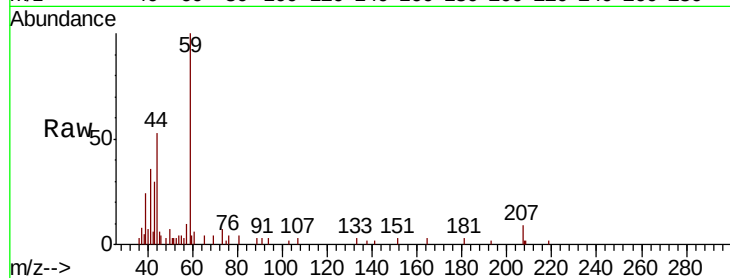




#11
Tert butyl alcohol
Concen: 83.454 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

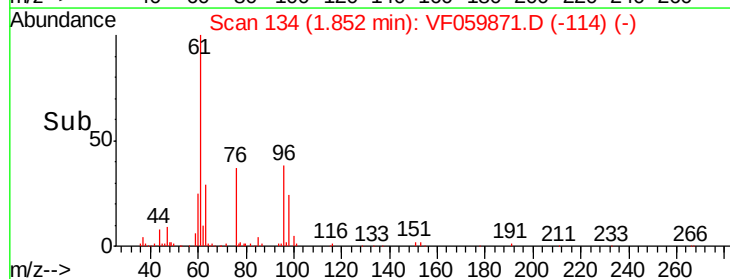
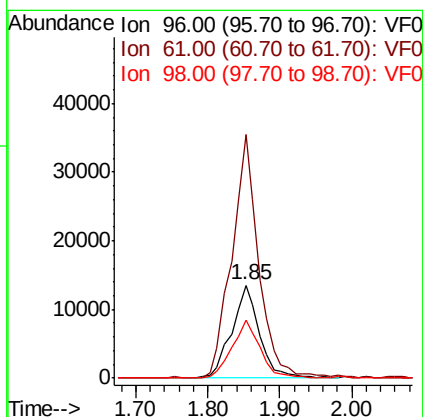
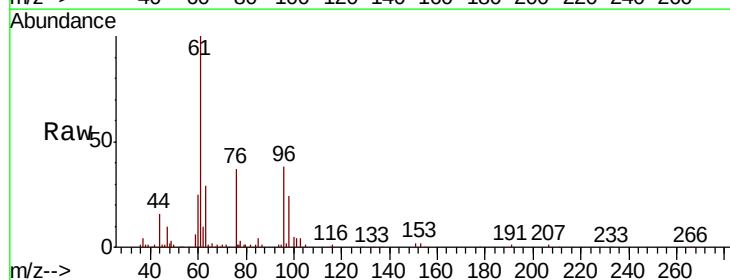
Instrument :
MSVOA_F
ClientSampleId :

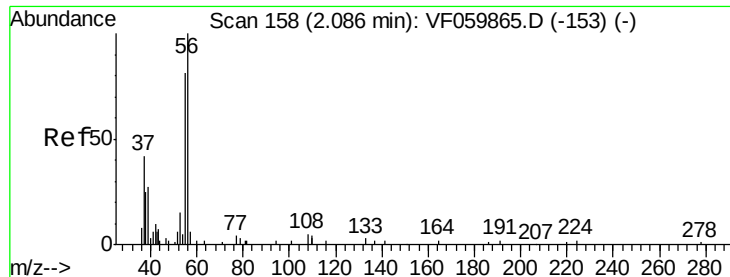
Tot Ion: 59 Resp: 12948
Ion Ratio Lower Upper
59 100
57 9.6 7.6 11.4



#12
1,1-Dichloroethene
Concen: 18.929 ug/l
RT: 1.85 min Scan# 134
Delta R.T. -0.01 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 96 Resp: 36076
Ion Ratio Lower Upper
96 100
61 262.7 230.2 345.2
98 63.0 52.7 79.1

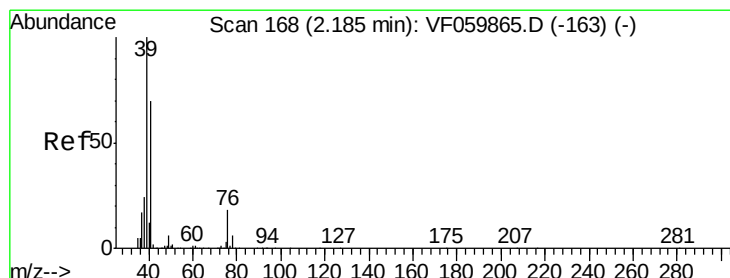
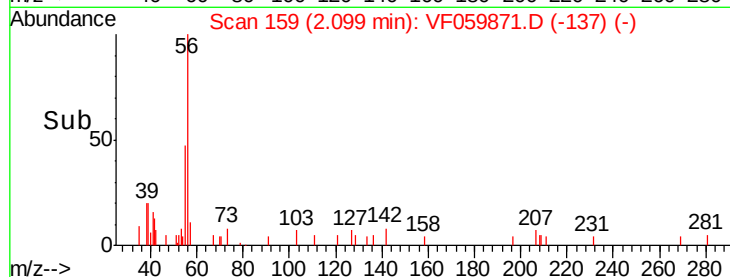
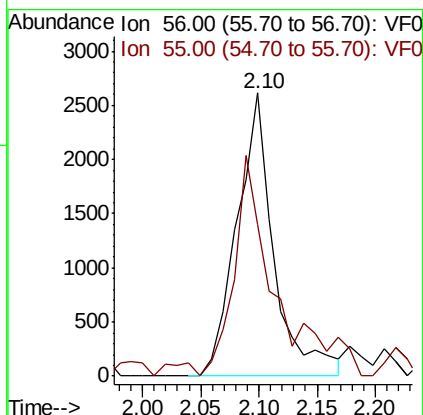
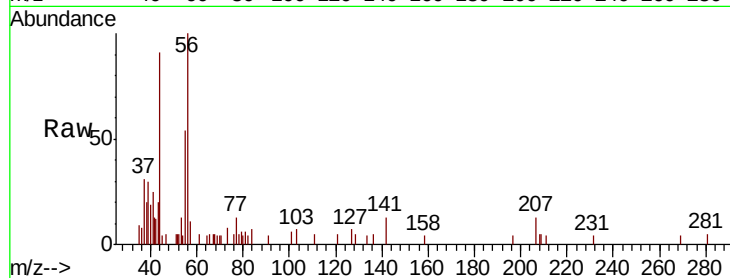




#13
Acrolein
Concen: 61.787 ug/l
RT: 2.10 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

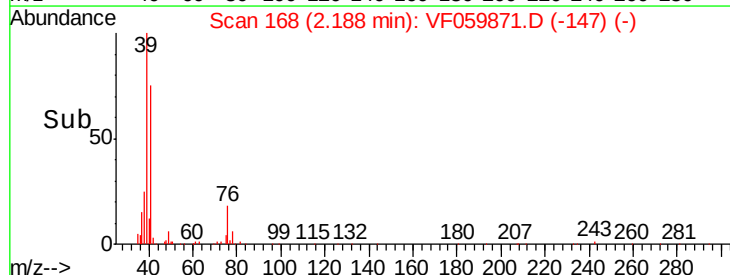
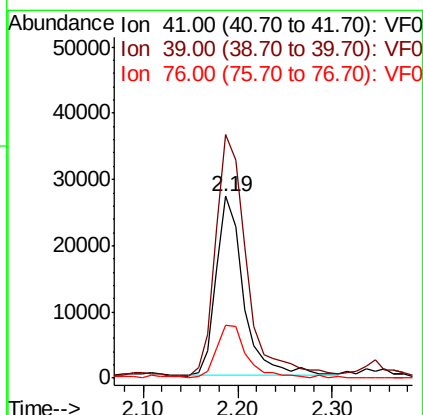
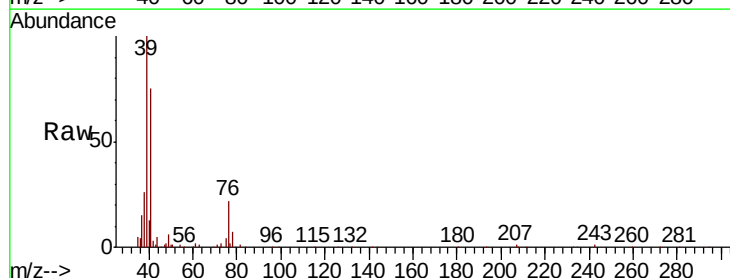
Instrument :
MSVOA_F
ClientSampleId :

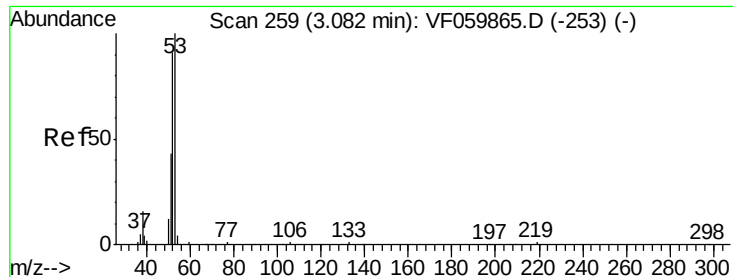
Tot Ion: 56 Resp: 5745
Ion Ratio Lower Upper
56 100
55 53.5 64.6 96.8#



#14
Allyl chloride
Concen: 17.304 ug/l
RT: 2.19 min Scan# 168
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 41 Resp: 54984
Ion Ratio Lower Upper
41 100
39 134.1 114.6 171.8
76 29.2 21.0 31.4





#15

Acrylonitrile

Concen: 79.355 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampleId :

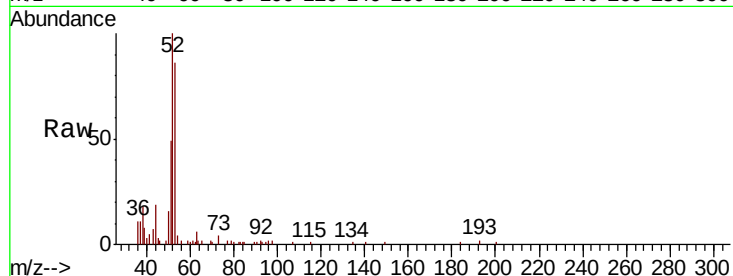
Tot Ion: 53 Resp: 22561

Ion Ratio Lower Upper

53 100

52 115.8 72.9 109.3#

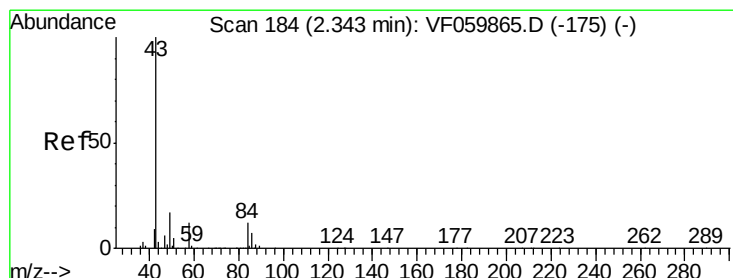
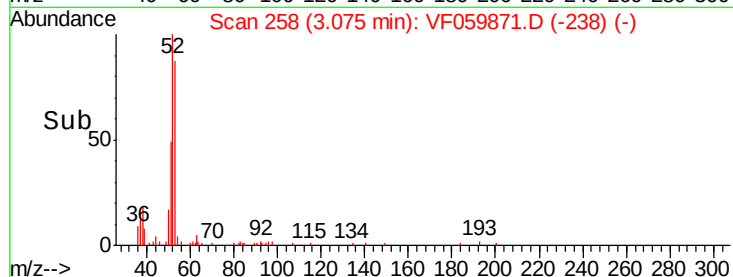
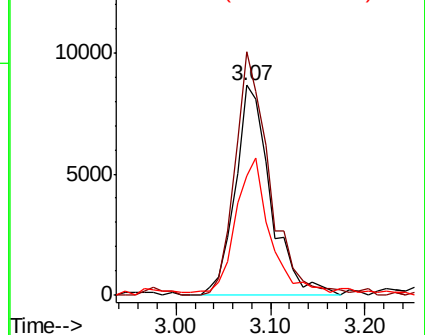
51 56.6 34.5 51.7#



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: 89.458 ug/l

RT: 2.35 min Scan# 184

Delta R.T. 0.00 min

Lab File: VF059871.D

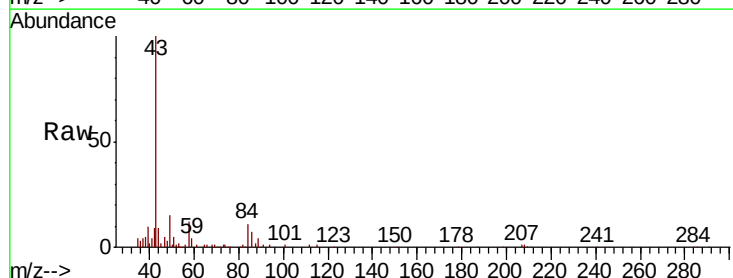
Acq: 4 Aug 2018 8:24

Tgt Ion: 43 Resp: 63523

Ion Ratio Lower Upper

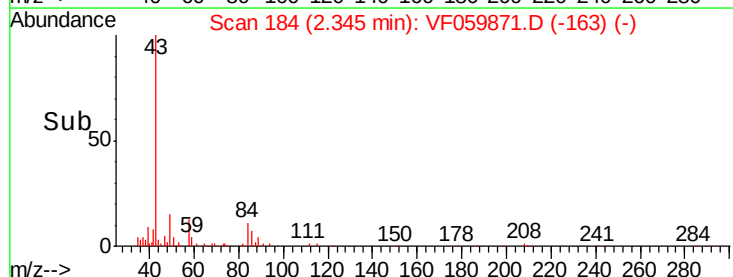
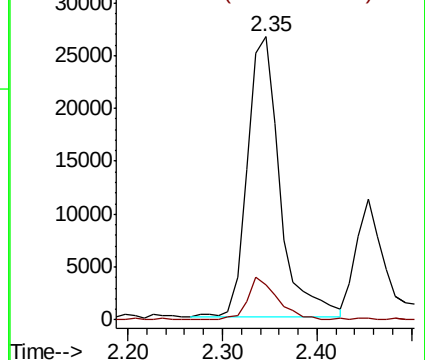
43 100

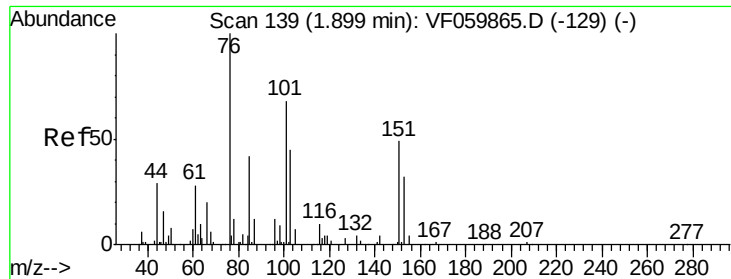
58 12.4 9.4 14.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

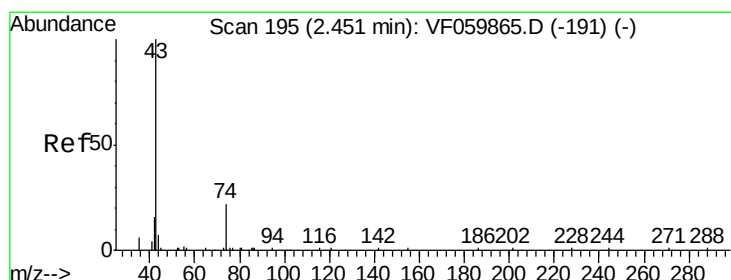
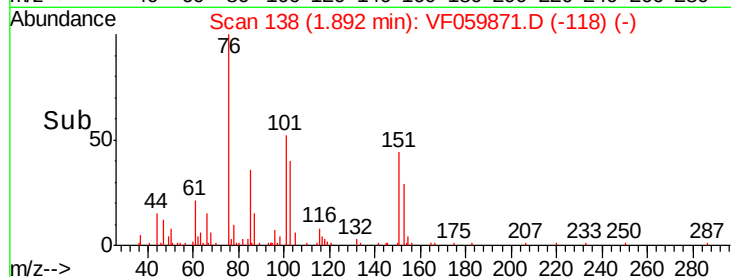
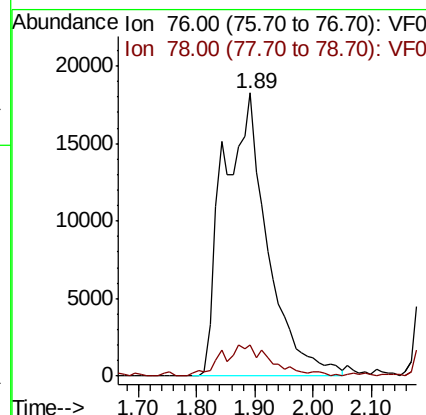
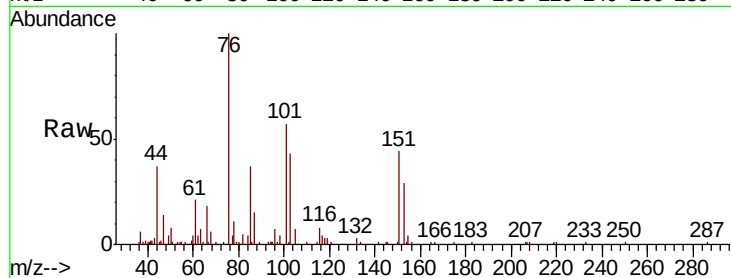




#17
Carbon Disulfide
Concen: 18.965 ug/l
RT: 1.89 min Scan# 138
Delta R.T. -0.01 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

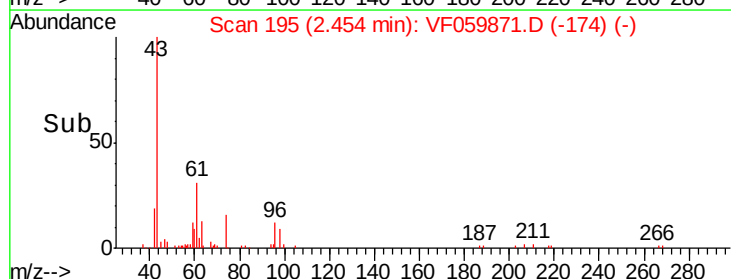
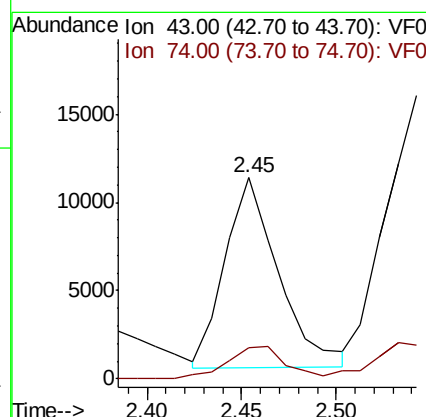
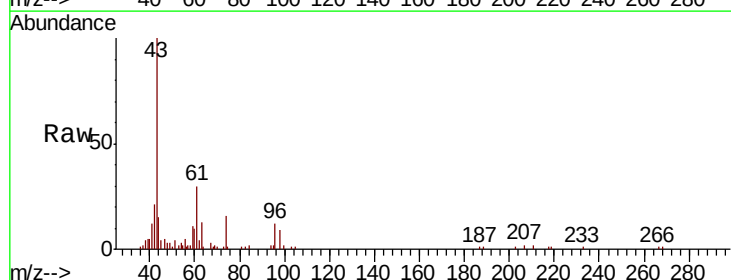
Instrument :
MSVOA_F
ClientSampleId :

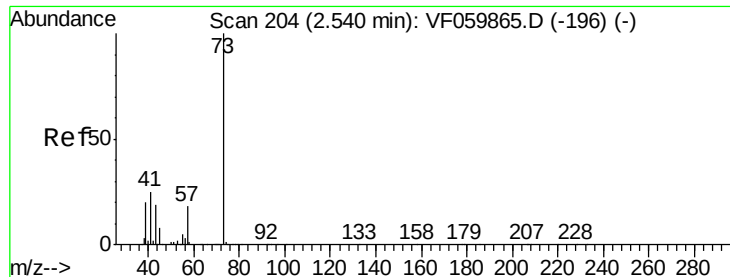
Tot Ion: 76 Resp: 96486
Ion Ratio Lower Upper
76 100
78 10.9 9.3 13.9



#18
Methyl Acetate
Concen: 17.699 ug/l
RT: 2.45 min Scan# 195
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 43 Resp: 21201
Ion Ratio Lower Upper
43 100
74 15.8 16.3 24.5#



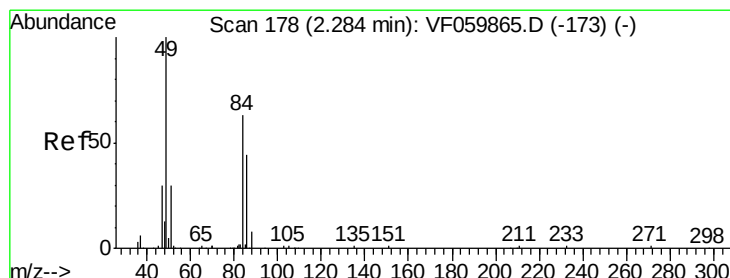
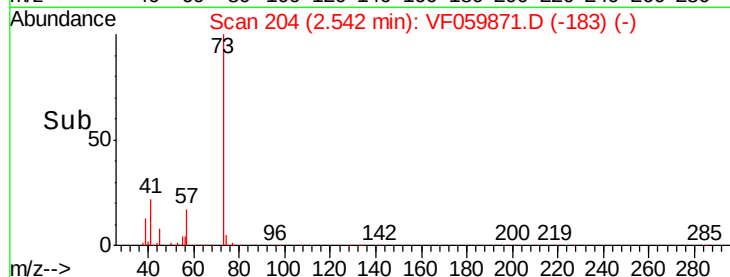
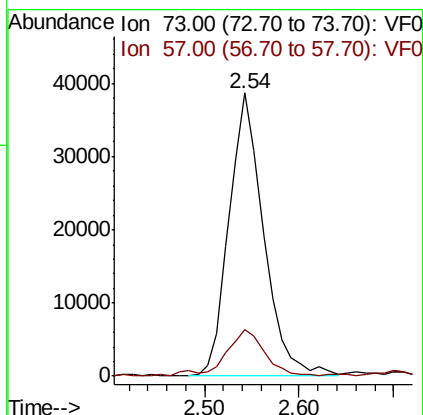
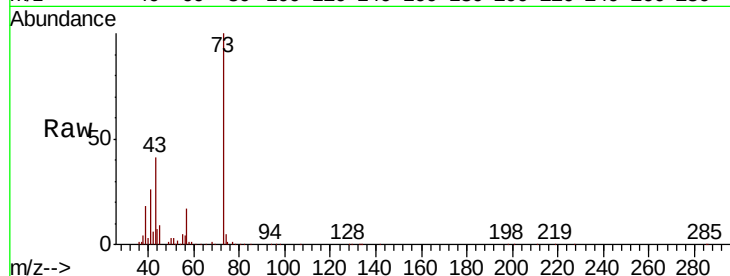


#19

Methyl tert-butyl Ether
 Concen: 18.212 ug/l
 RT: 2.54 min Scan# 204
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Instrument :
 MSVOA_F
 ClientSampleId :

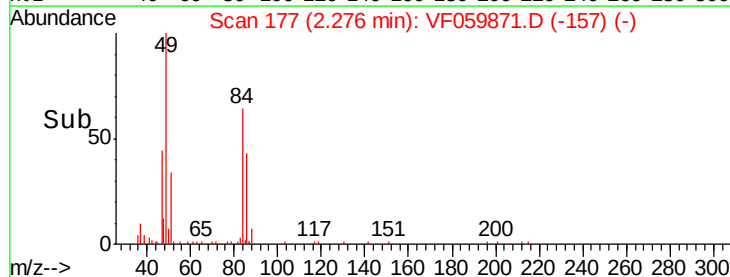
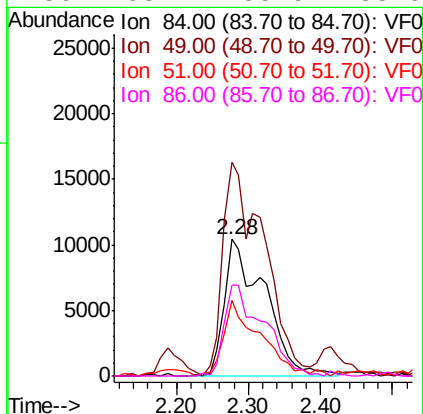
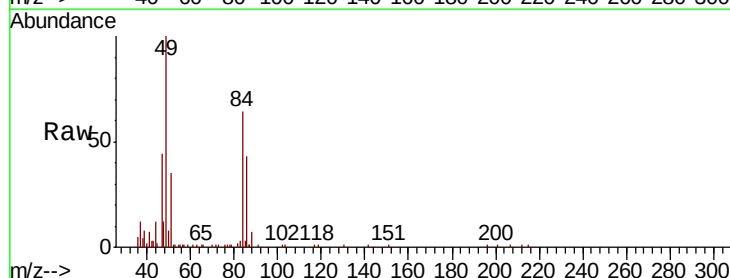
Tot Ion: 73 Resp: 98268
 Ion Ratio Lower Upper
 73 100
 57 16.6 14.3 21.5

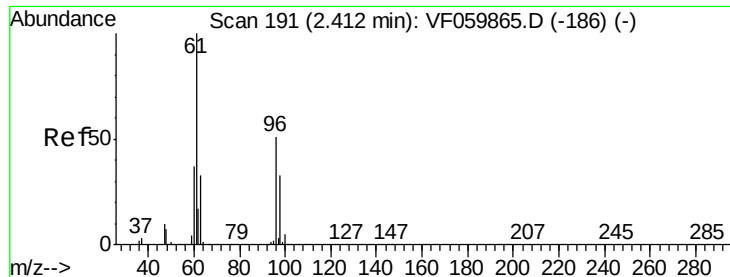


#20

Methylene Chloride
 Concen: 19.184 ug/l
 RT: 2.28 min Scan# 177
 Delta R.T. -0.01 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Tgt Ion: 84 Resp: 40437
 Ion Ratio Lower Upper
 84 100
 49 156.6 128.7 193.1
 51 55.4 39.3 58.9
 86 68.4 55.9 83.9





#21

trans-1,2-Dichloroethene

Concen: 18.564 ug/l

RT: 2.41 min Scan# 191

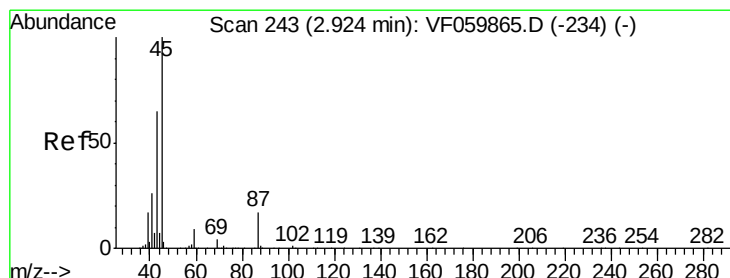
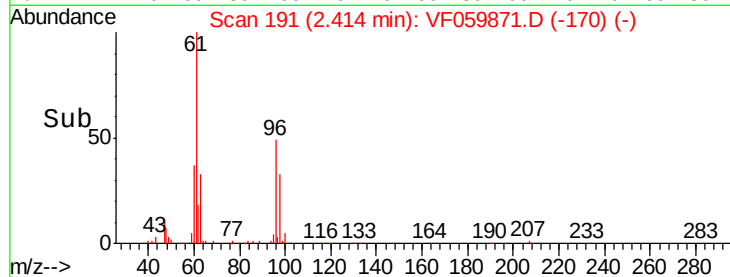
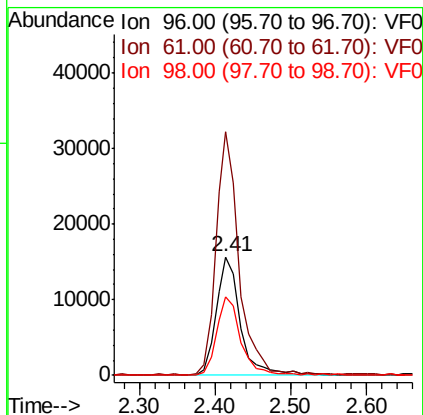
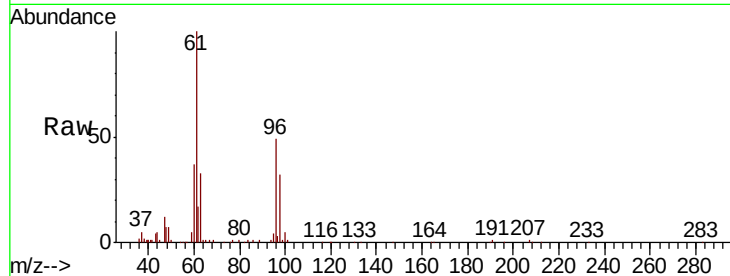
Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	96	Resp:	35144
Ion	Ratio	Lower	Upper
96	100		
61	205.6	158.2	237.4
98	66.2	52.0	78.0



#22

Diisopropyl ether

Concen: 18.614 ug/l

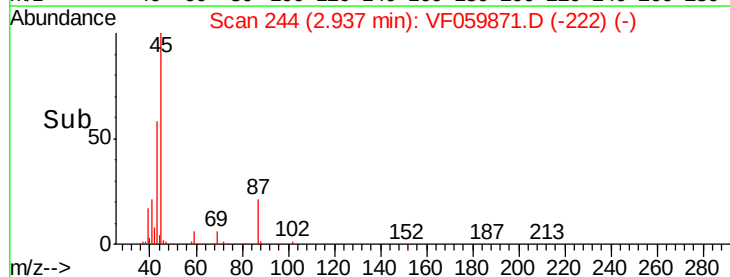
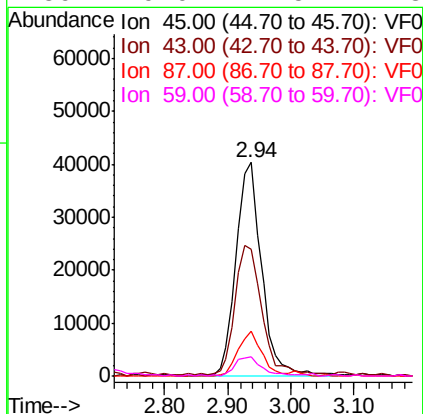
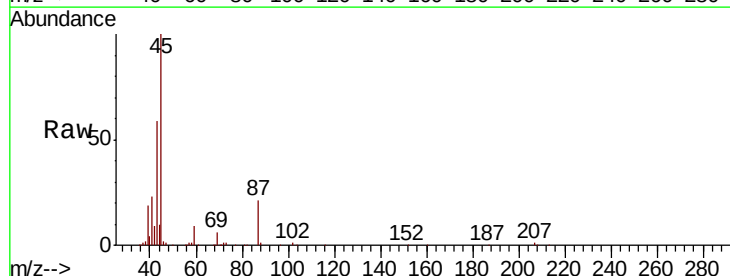
RT: 2.94 min Scan# 244

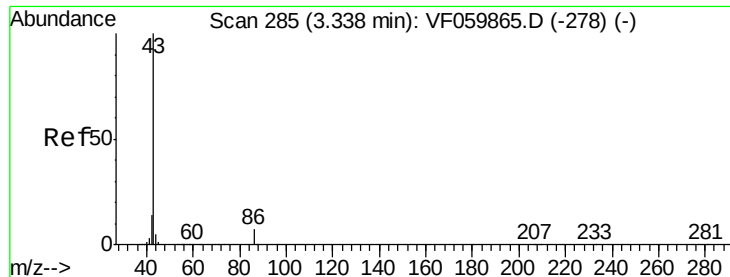
Delta R.T. 0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Tgt Ion:	45	Resp:	113783
Ion	Ratio	Lower	Upper
45	100		
43	59.3	52.1	78.1
87	20.9	13.8	20.8#
59	9.0	7.5	11.3





#23

Vinyl Acetate

Concen: 95.482 ug/l

RT: 3.34 min Scan# 285

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

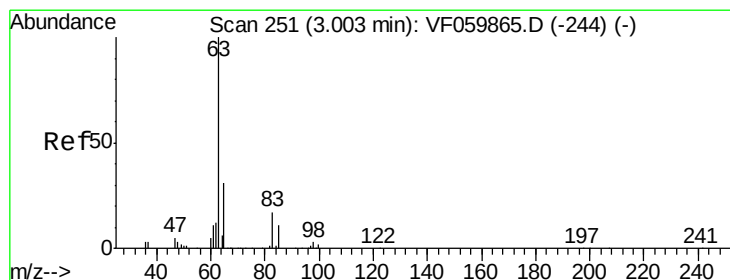
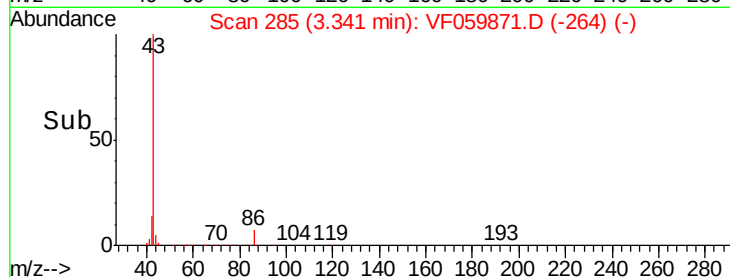
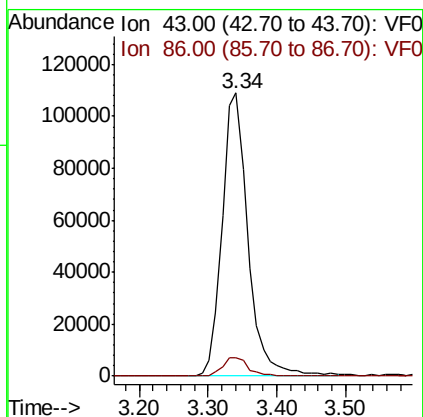
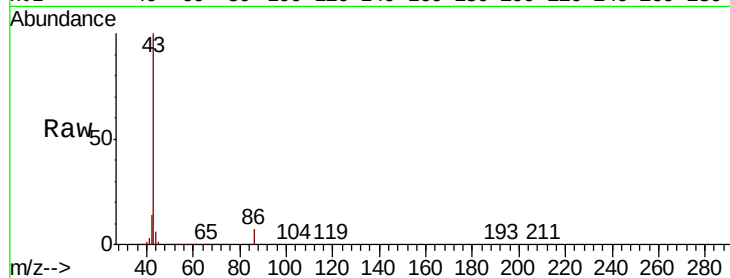
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 282544

Ion Ratio Lower Upper

43 100

86 6.5 5.6 8.4



#24

1,1-Dichloroethane

Concen: 18.333 ug/l

RT: 3.01 min Scan# 251

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

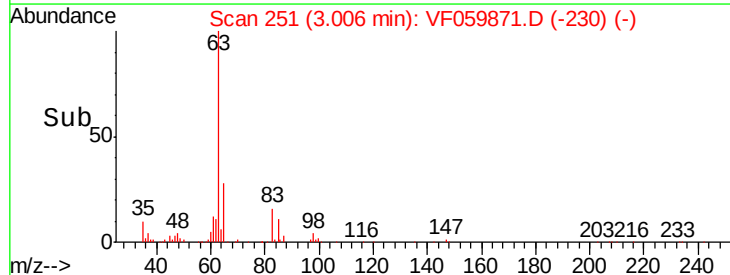
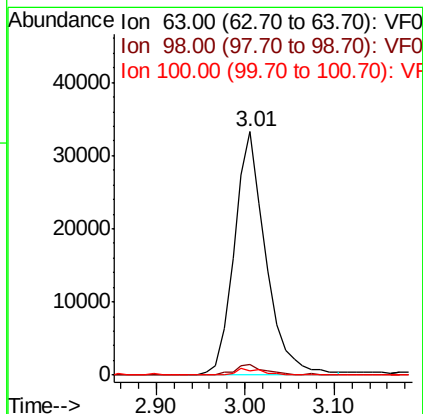
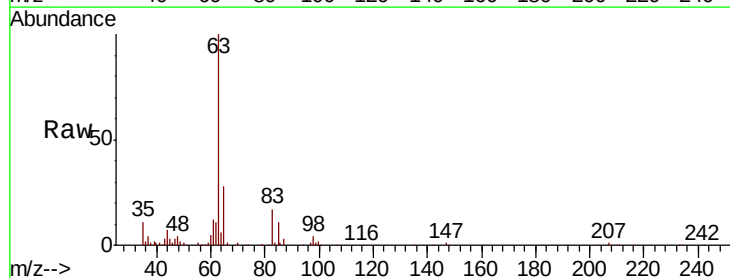
Tgt Ion: 63 Resp: 81609

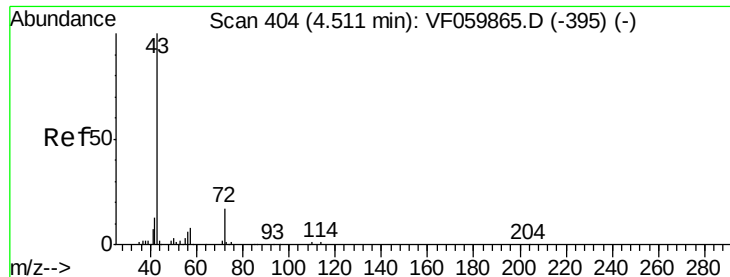
Ion Ratio Lower Upper

63 100

98 4.8 1.9 5.7

100 1.9 1.1 3.5





#25

2-Butanone

Concen: 91.480 ug/l

RT: 4.51 min Scan# 404

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

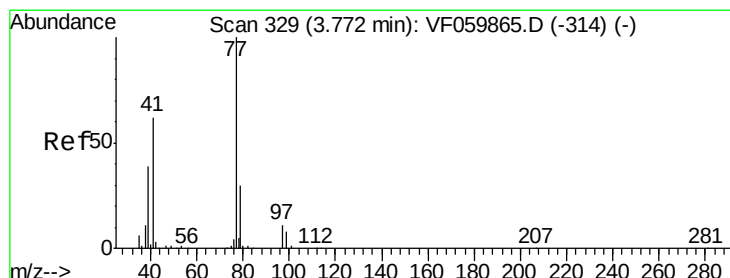
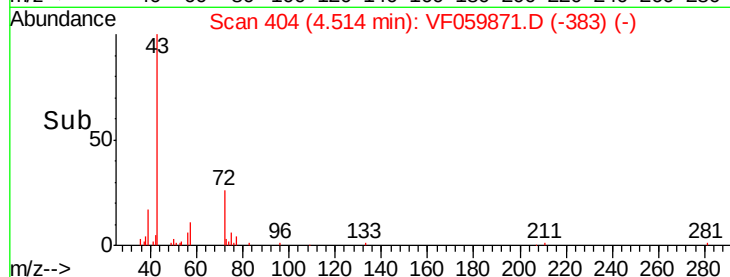
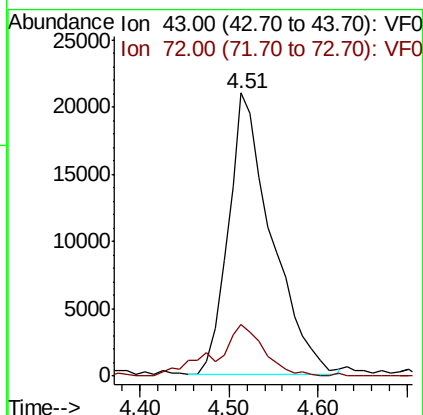
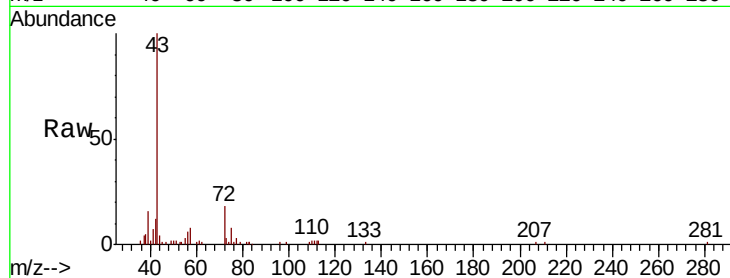
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 70633

Ion Ratio Lower Upper

43 100

72 18.2 13.9 20.9



#26

2,2-Dichloropropane

Concen: 19.069 ug/l

RT: 3.76 min Scan# 328

Delta R.T. -0.01 min

Lab File: VF059871.D

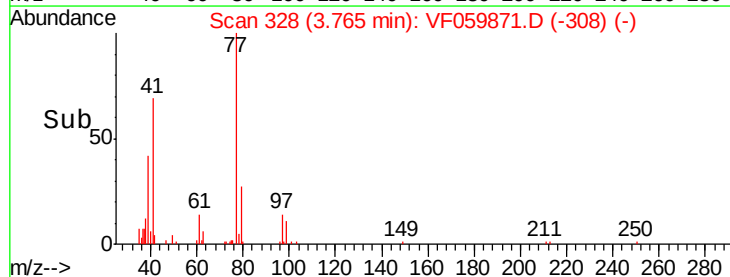
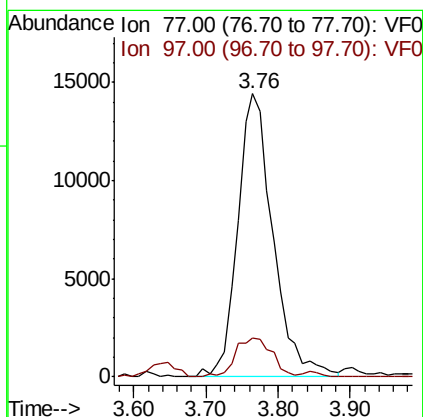
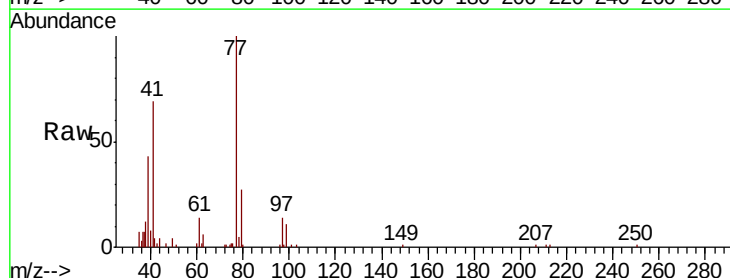
Acq: 4 Aug 2018 8:24

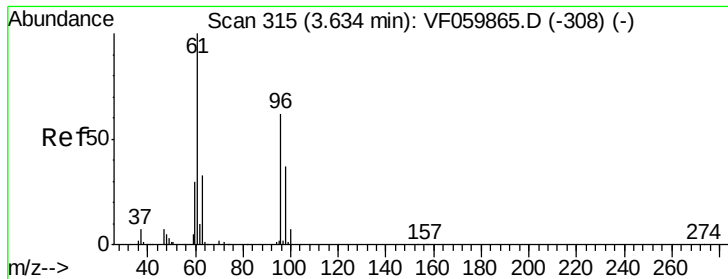
Tgt Ion: 77 Resp: 49417

Ion Ratio Lower Upper

77 100

97 13.9 6.8 20.3



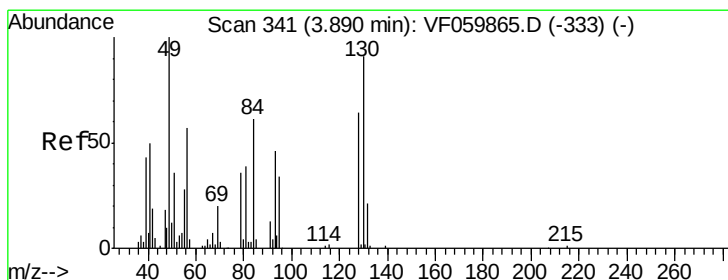
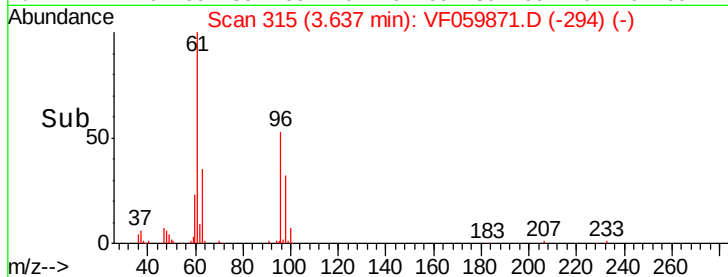
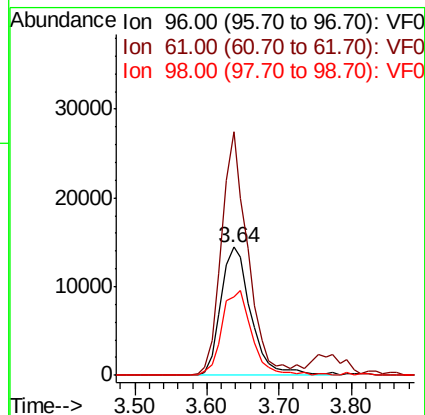
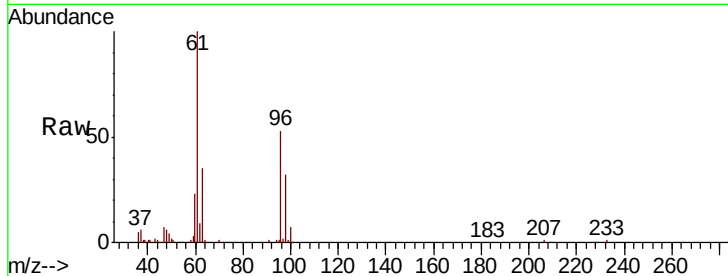


#27

cis-1,2-Dichloroethene
 Concen: 19.623 ug/l
 RT: 3.64 min Scan# 315
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Instrument :
 MSVOA_F
 ClientSampled :

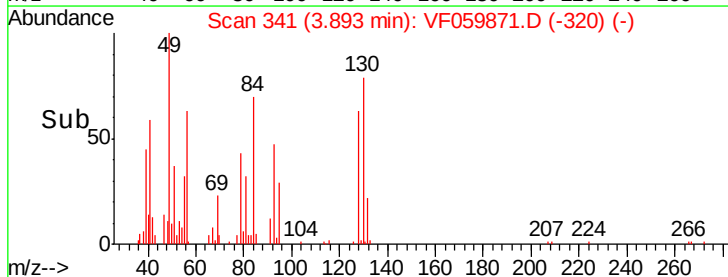
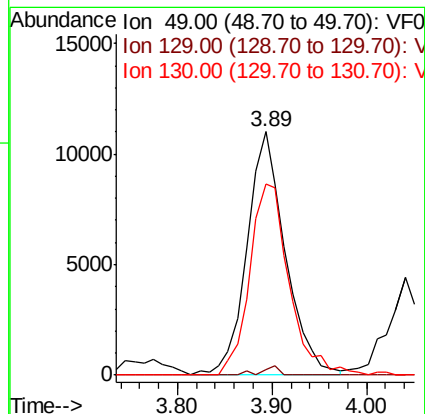
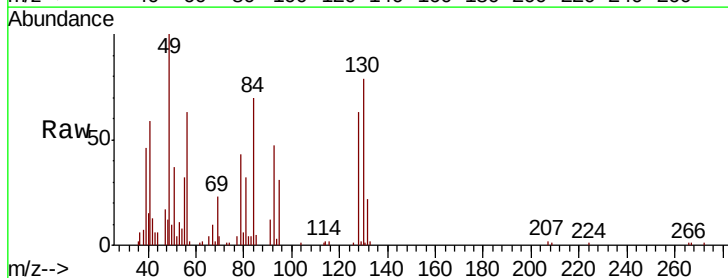
Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100		41771		
61	189.7	0.0	320.8		
98	61.6	0.0	117.6		

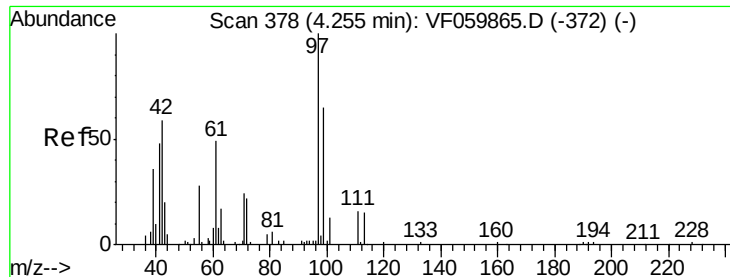


#28

Bromochloromethane
 Concen: 19.775 ug/l
 RT: 3.89 min Scan# 341
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100		31084		
129	2.5	0.0	4.6		
130	78.5	73.8	110.8		





#29

Tetrahydrofuran

Concen: 103.274 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampleId :

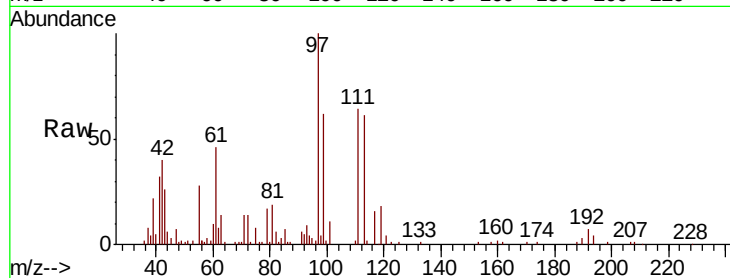
Tot Ion: 42 Resp: 29355

Ion Ratio Lower Upper

42 100

72 33.7 29.3 43.9

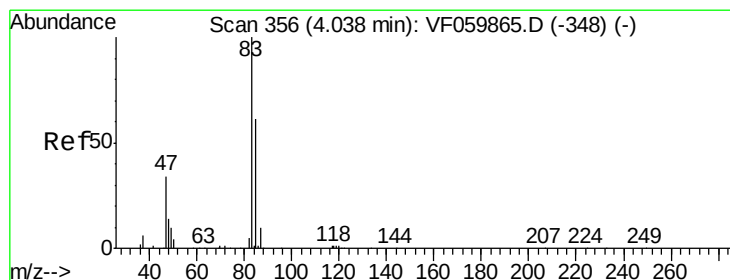
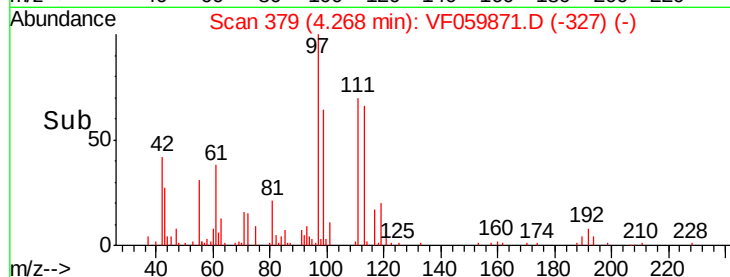
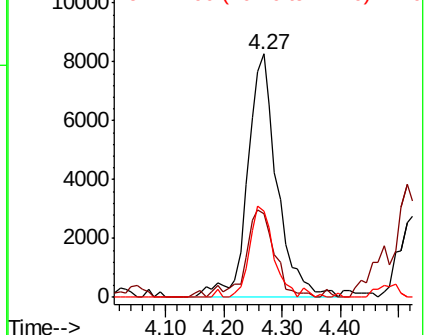
71 30.1 30.0 45.0



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: 18.143 ug/l

RT: 4.04 min Scan# 356

Delta R.T. 0.00 min

Lab File: VF059871.D

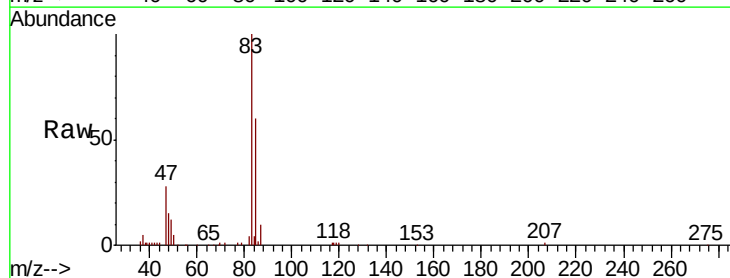
Acq: 4 Aug 2018 8:24

Tgt Ion: 83 Resp: 109262

Ion Ratio Lower Upper

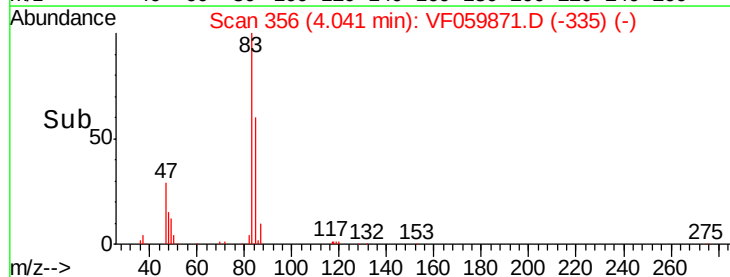
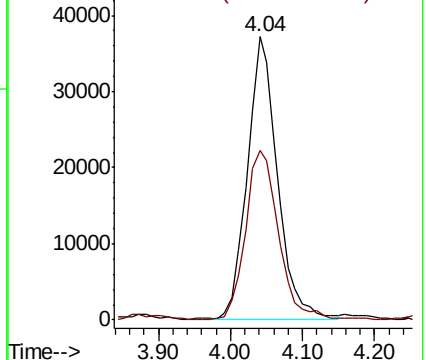
83 100

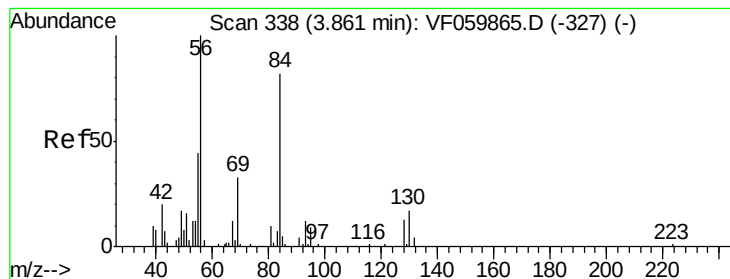
85 60.0 49.3 73.9



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 20.917 ug/l

RT: 3.86 min Scan# 338

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :
MSVOA_F
ClientSampleId :

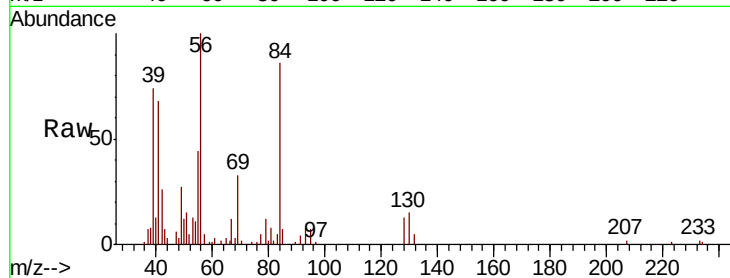
Tot Ion: 56 Resp: 46085

Ion Ratio Lower Upper

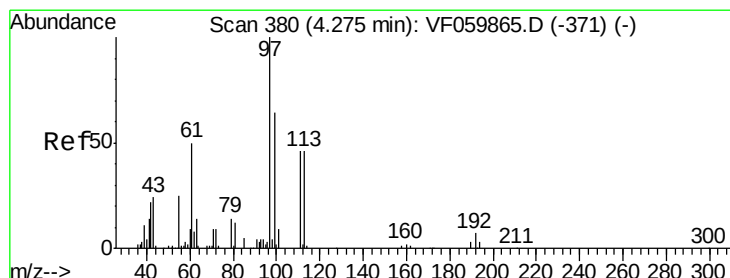
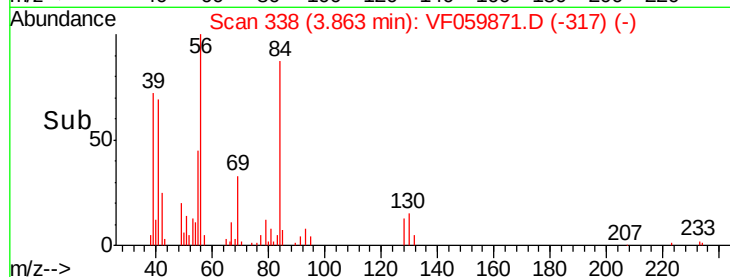
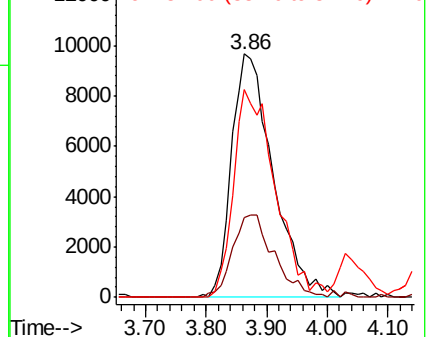
56 100

69 32.9 26.7 40.1

84 85.5 65.9 98.9



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



#32

1,1,1-Trichloroethane

Concen: 18.398 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

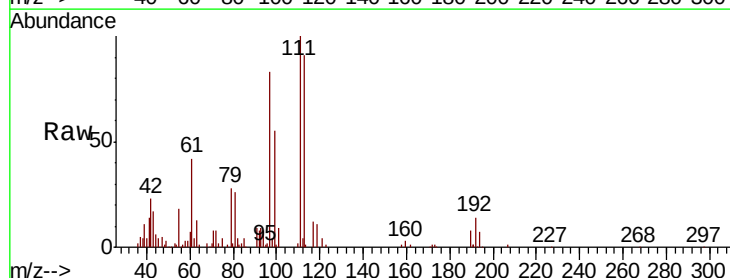
Tgt Ion: 97 Resp: 88638

Ion Ratio Lower Upper

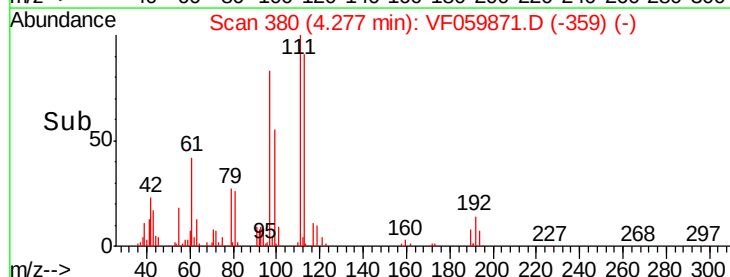
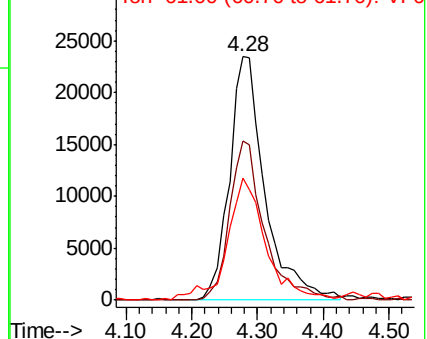
97 100

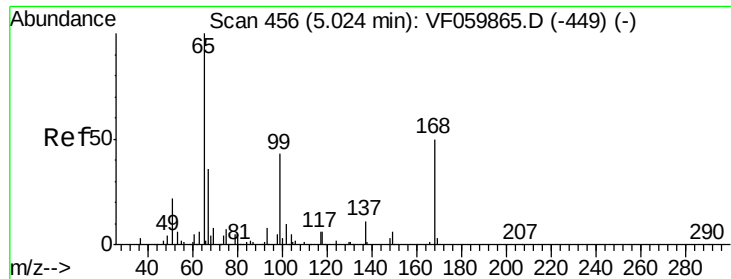
99 65.5 51.4 77.2

61 50.0 40.8 61.2



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

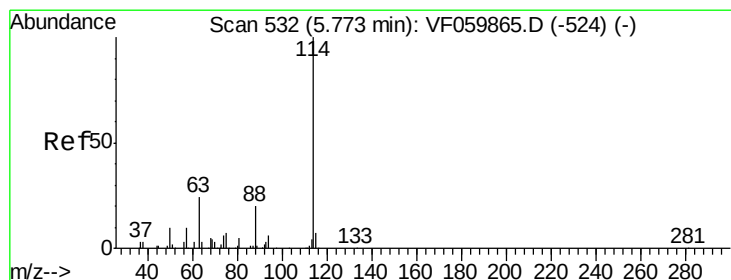
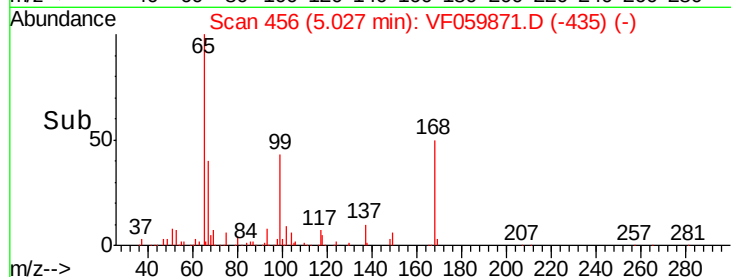
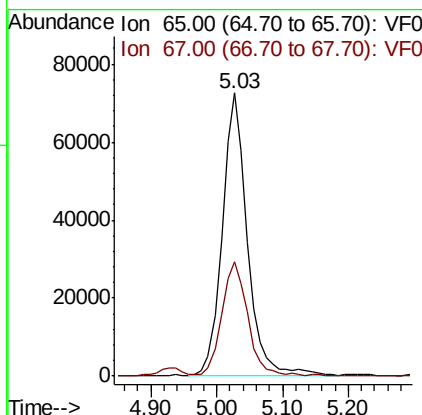
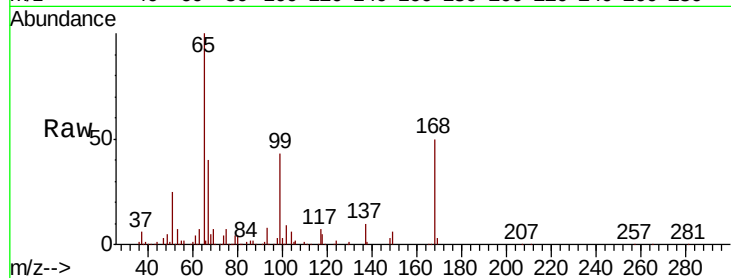




#33
 1,2-Dichloroethane-d4
 Concen: 50.296 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

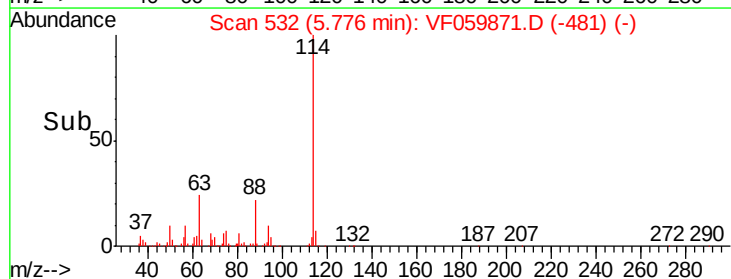
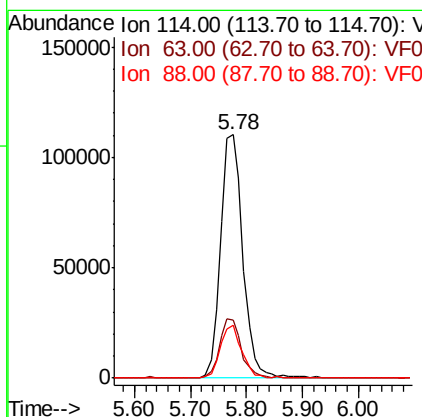
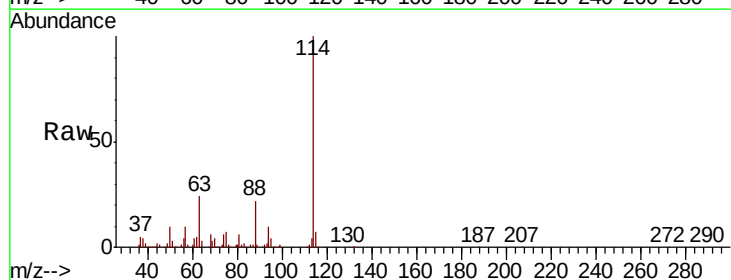
Instrument :
 MSVOA_F
 ClientSampleId :

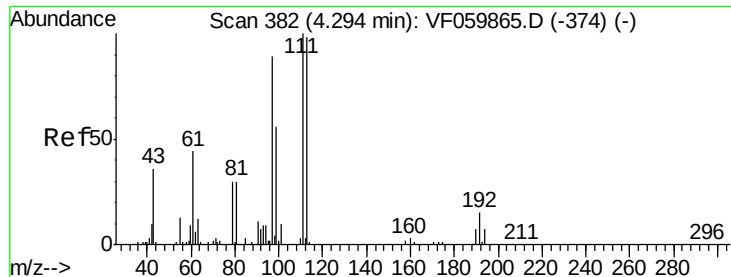
Tot Ion: 65 Resp: 193462
 Ion Ratio Lower Upper
 65 100
 67 40.4 0.0 77.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Tgt Ion: 114 Resp: 306685
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 48.0
 88 21.7 0.0 39.4

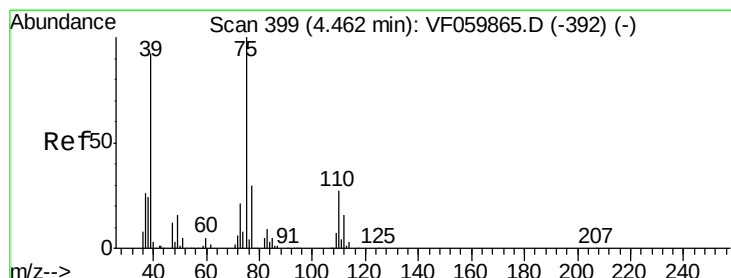
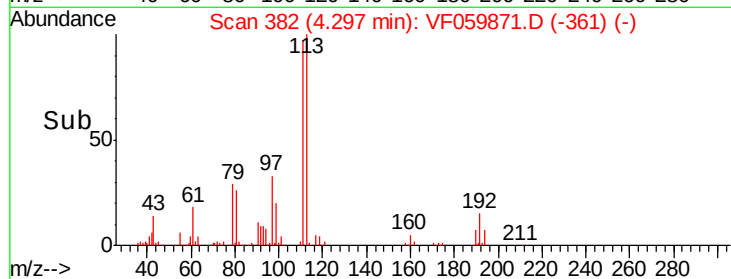
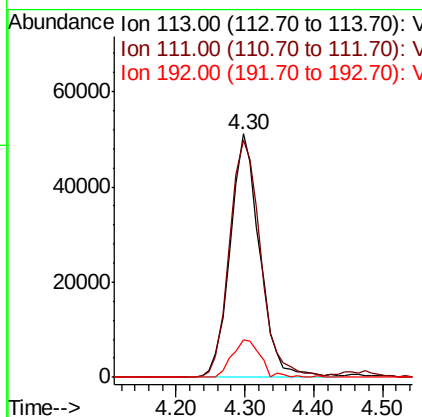
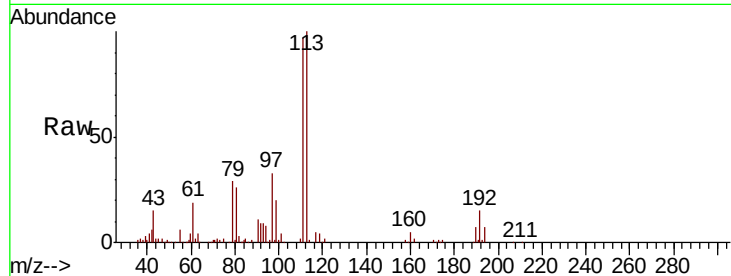




#35
 Dibromofluoromethane
 Concen: 49.880 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

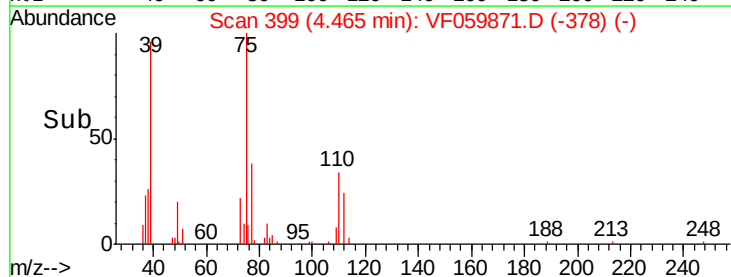
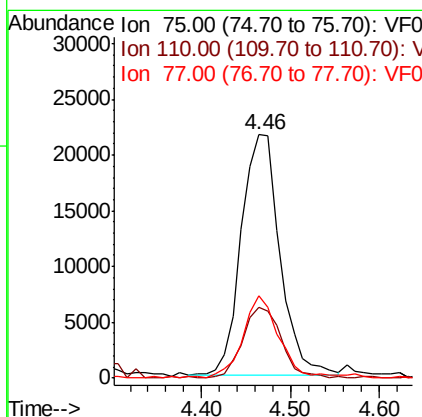
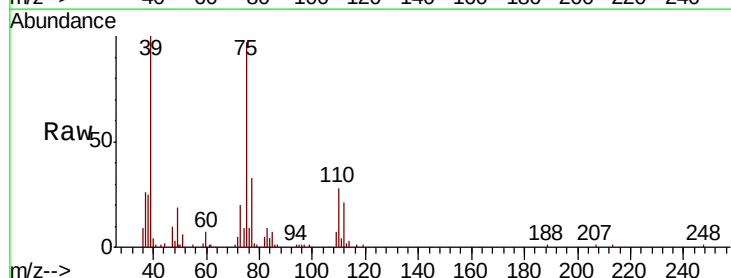
Instrument :
 MSVOA_F
 ClientSampleId :

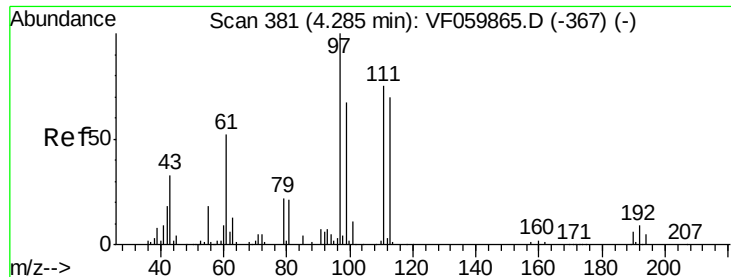
Tot Ion:113 Resp: 152204
 Ion Ratio Lower Upper
 113 100
 111 97.2 81.8 122.8
 192 15.3 12.4 18.6



#36
 1,1-Dichloropropene
 Concen: 18.269 ug/l
 RT: 4.46 min Scan# 399
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Tgt Ion: 75 Resp: 64807
 Ion Ratio Lower Upper
 75 100
 110 29.1 13.6 40.7
 77 33.9 23.7 35.5

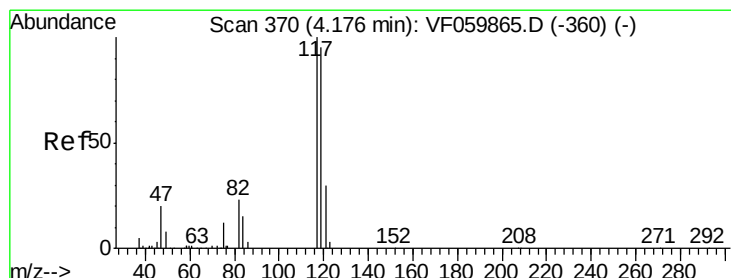
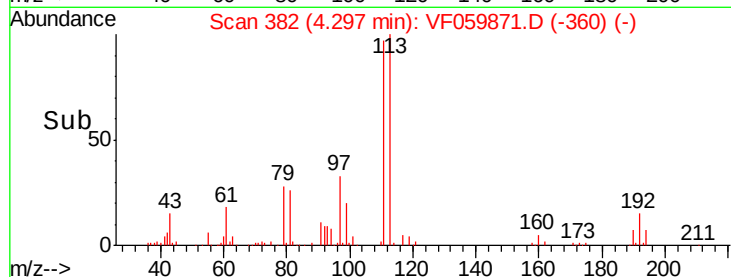
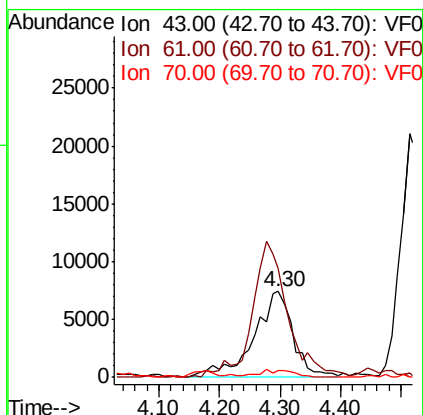
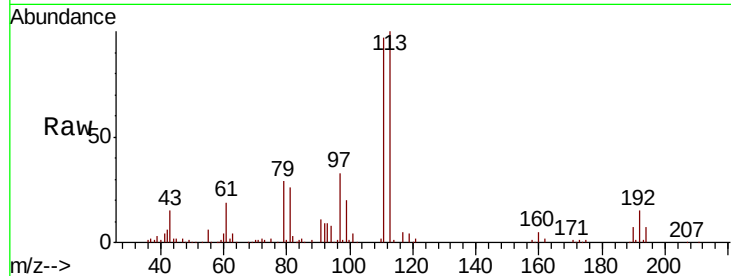




#37
Ethyl Acetate
Concen: 22.126 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.01 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

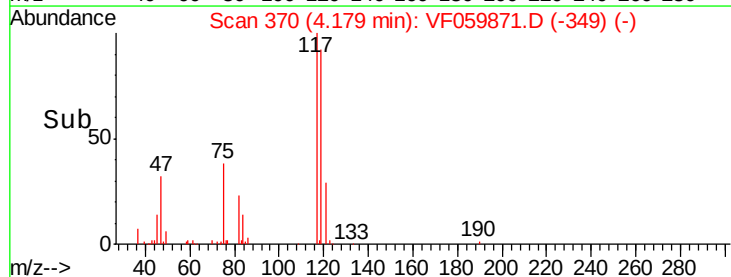
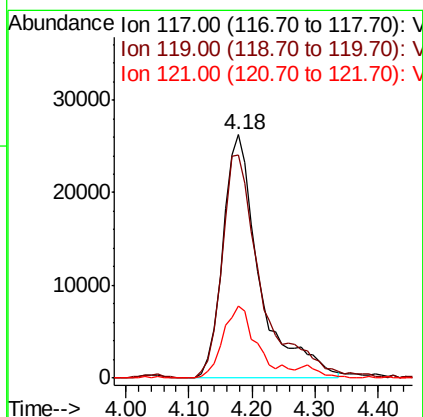
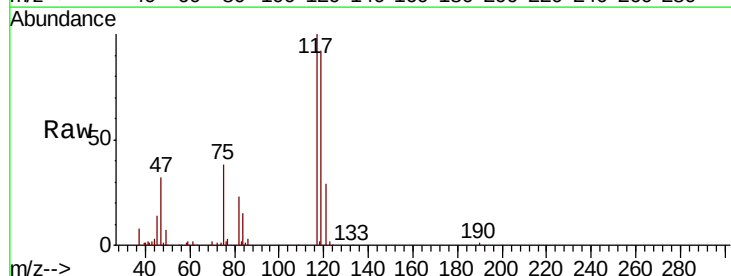
Instrument :
MSVOA_F
ClientSampled :

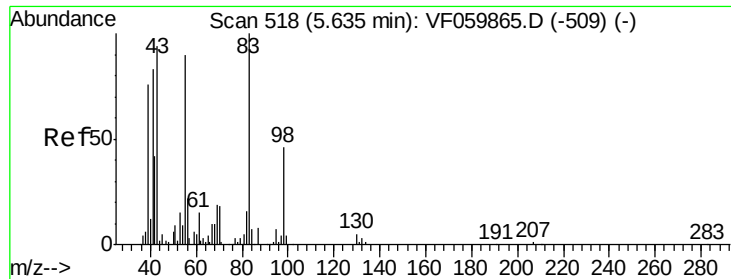
Tot Ion: 43 Resp: 33701
Ion Ratio Lower Upper
43 100
61 127.6 123.7 185.5
70 8.4 7.8 11.8



#38
Carbon Tetrachloride
Concen: 20.891 ug/l
RT: 4.18 min Scan# 370
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 117 Resp: 106088
Ion Ratio Lower Upper
117 100
119 91.7 76.5 114.7
121 29.5 23.8 35.8

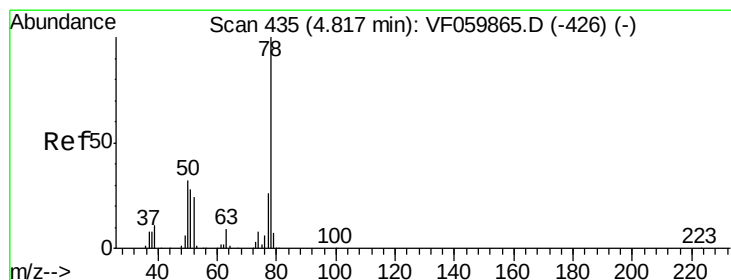
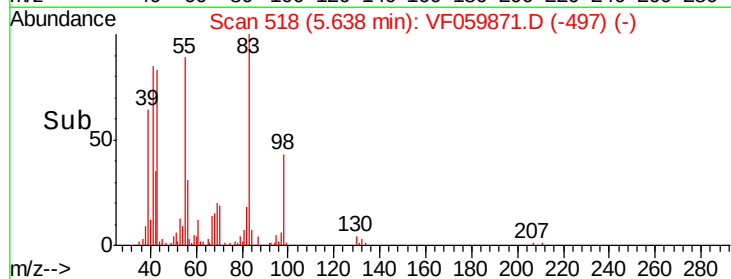
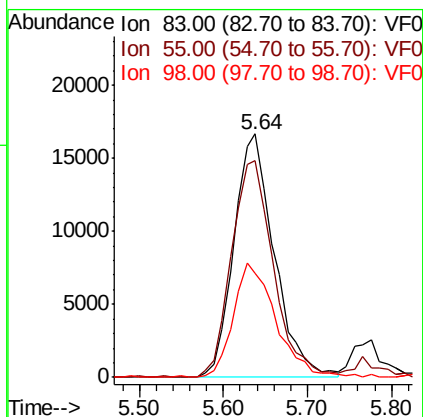
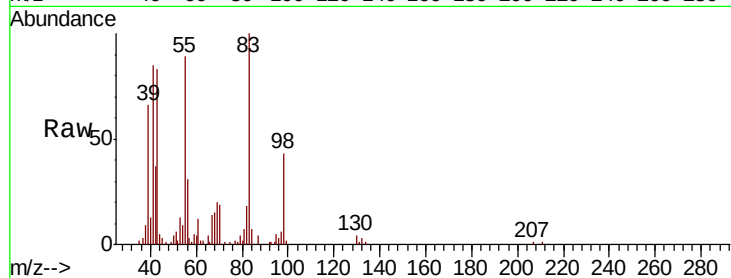




#39
Methylvlcyclohexane
Concen: 20.922 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

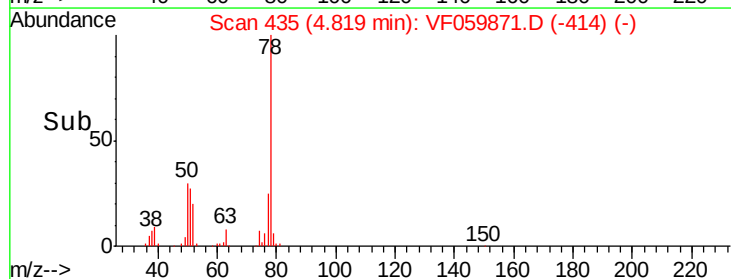
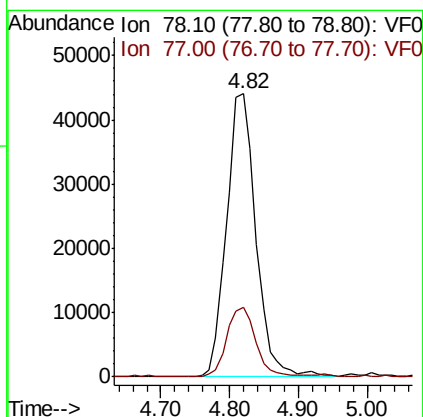
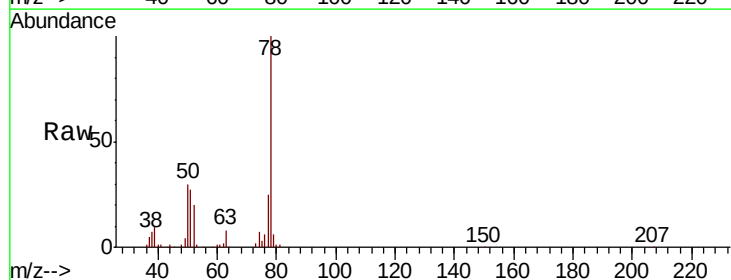
Instrument :
MSVOA_F
ClientSampleId :

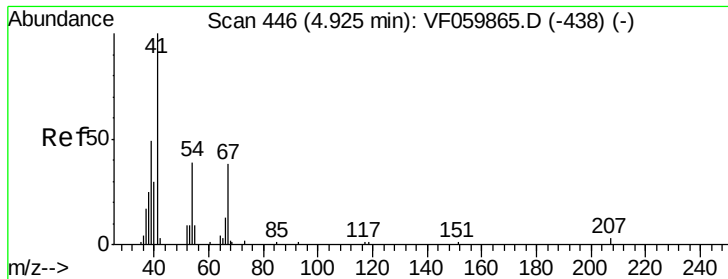
Tot Ion: 83 Resp: 55658
Ion Ratio Lower Upper
83 100
55 88.8 72.0 108.0
98 42.8 36.6 54.8



#40
Benzene
Concen: 19.606 ug/l
RT: 4.82 min Scan# 435
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 78 Resp: 130634
Ion Ratio Lower Upper
78 100
77 24.6 20.7 31.1

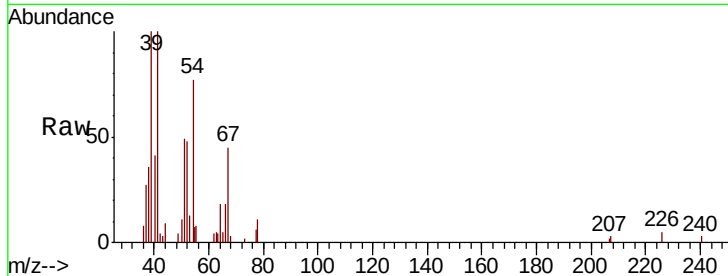




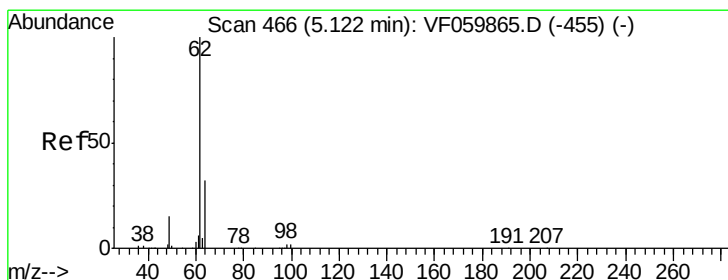
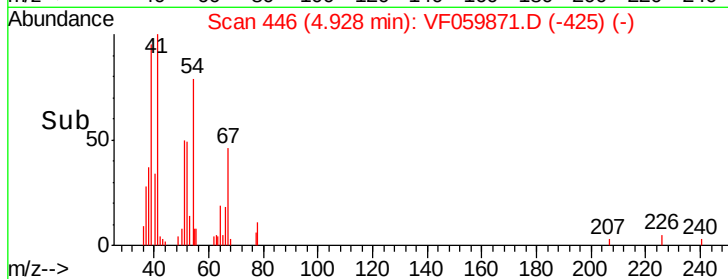
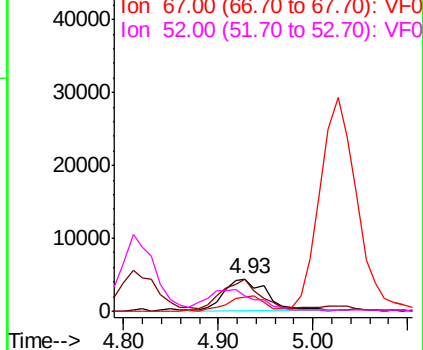
#41
Methacrylonitrile
Concen: 16.533 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	13289
Ion	Ratio	Lower	Upper
41	100		
39	99.8	55.1	82.7#
67	45.2	30.3	45.5
52	47.6	36.0	54.0

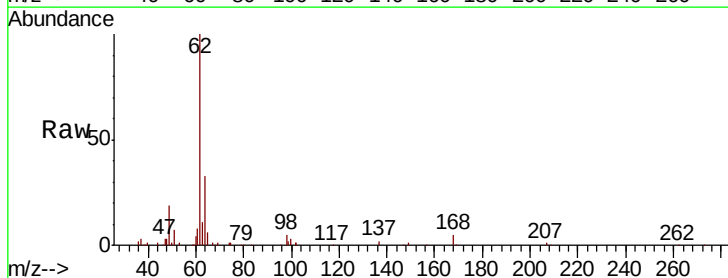


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

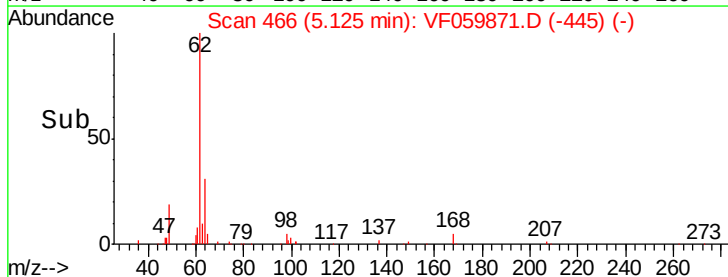
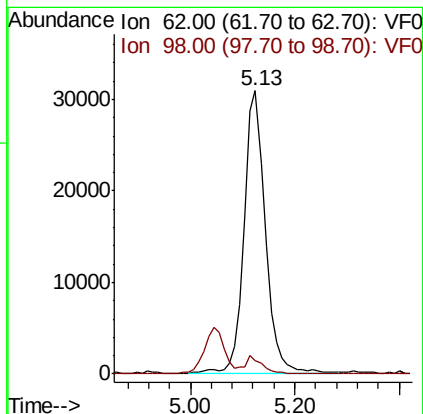


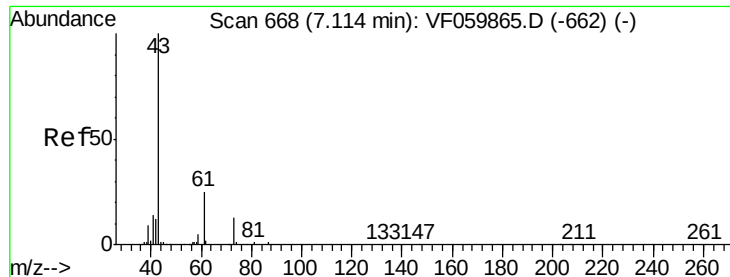
#42
1,2-Dichloroethane
Concen: 17.414 ug/l
RT: 5.13 min Scan# 466
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion:	62	Resp:	85539
Ion	Ratio	Lower	Upper
62	100		
98	4.7	0.0	7.6



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



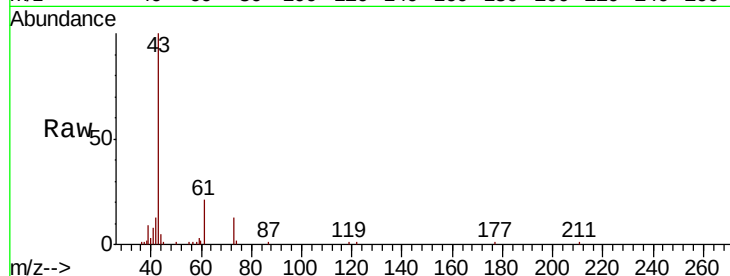


#43

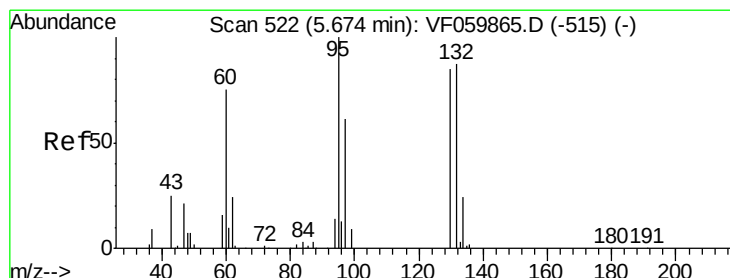
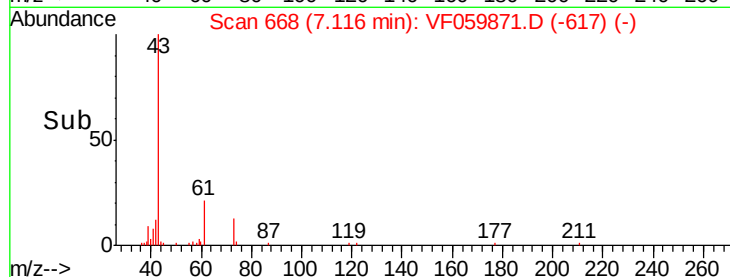
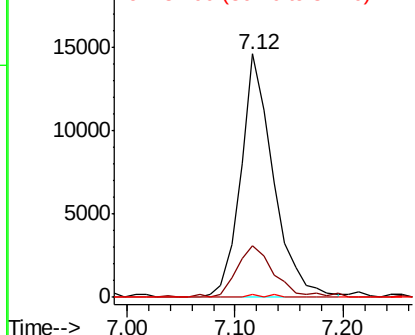
Isopropyl Acetate
 Concen: 19.461 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion: 43 Resp: 30522
 Ion Ratio Lower Upper
 43 100
 61 21.3 20.3 30.5
 87 1.0 0.7 1.1



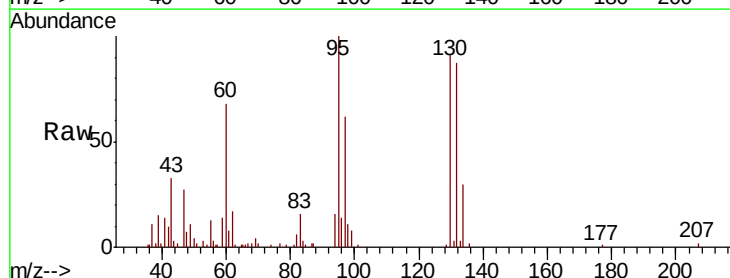
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



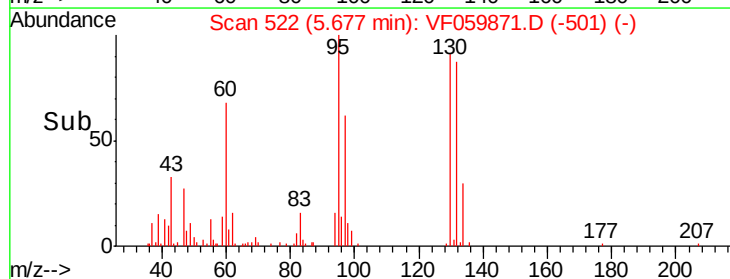
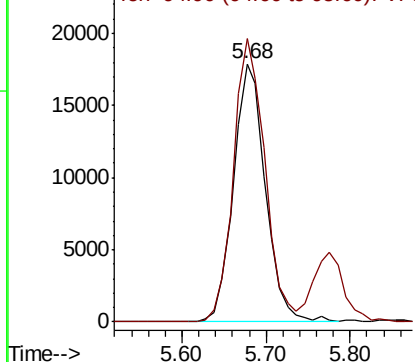
#44

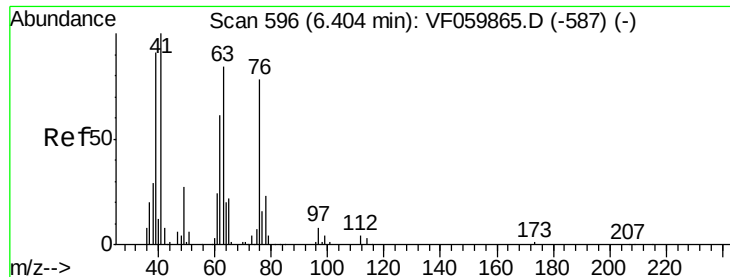
Trichloroethene
 Concen: 19.971 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Tgt Ion: 130 Resp: 47183
 Ion Ratio Lower Upper
 130 100
 95 109.7 0.0 236.8



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

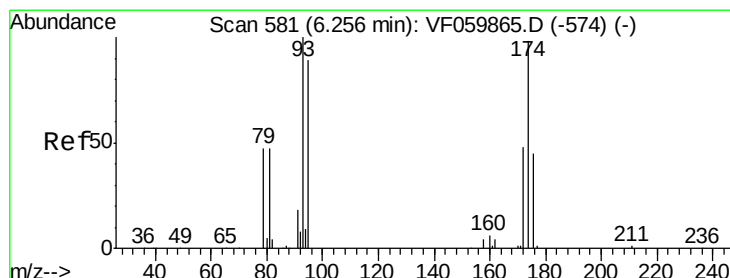
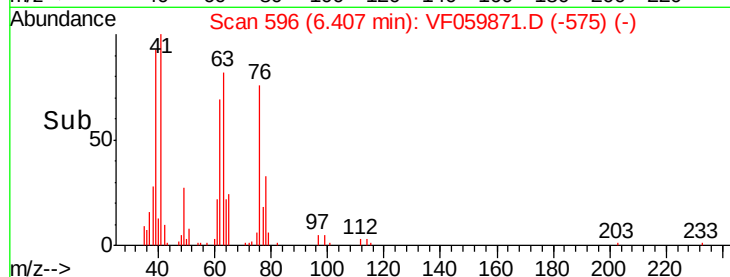
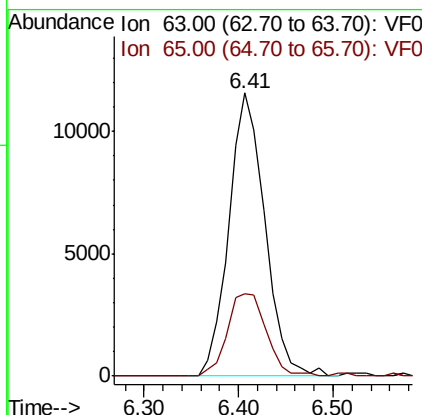
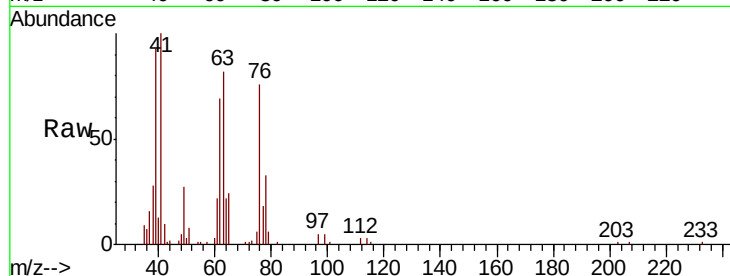




#45
 1,2-Dichloropropane
 Concen: 18.729 ug/l
 RT: 6.41 min Scan# 596
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

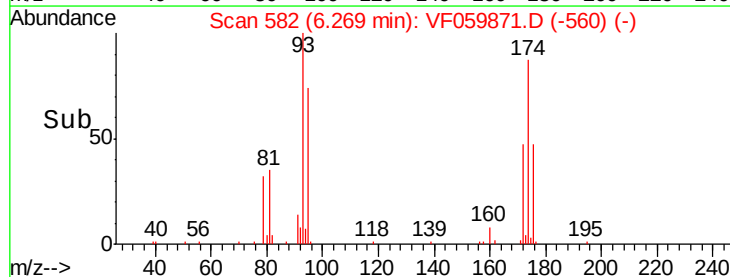
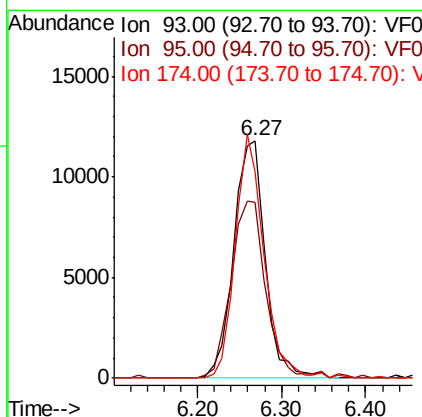
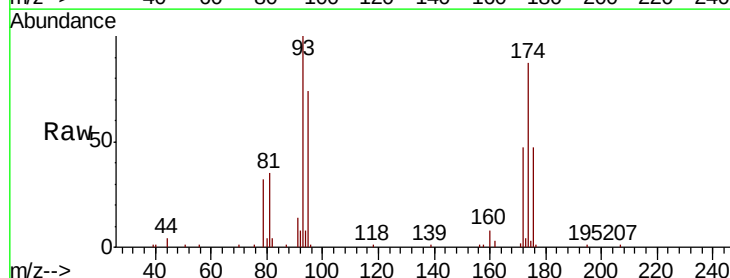
Instrument :
 MSVOA_F
 ClientSampleId :

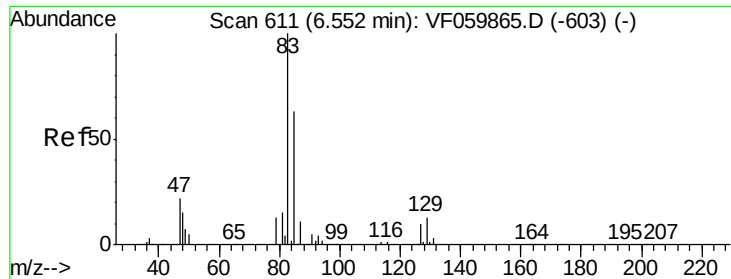
Tot Ion: 63 Resp: 30489
 Ion Ratio Lower Upper
 63 100
 65 29.1 20.4 30.6



#46
 Dibromomethane
 Concen: 18.722 ug/l
 RT: 6.27 min Scan# 582
 Delta R.T. 0.01 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Tgt Ion: 93 Resp: 30752
 Ion Ratio Lower Upper
 93 100
 95 74.0 71.4 107.2
 174 87.2 78.1 117.1





#47

Bromodichloromethane

Concen: 18.118 ug/l

RT: 6.55 min Scan# 611

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :
MSVOA_F
ClientSampleId :

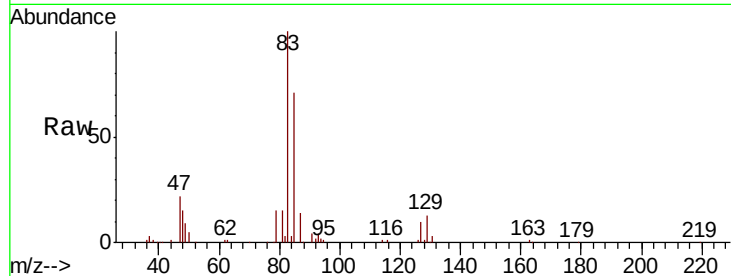
Tot Ion: 83 Resp: 81399

Ion Ratio Lower Upper

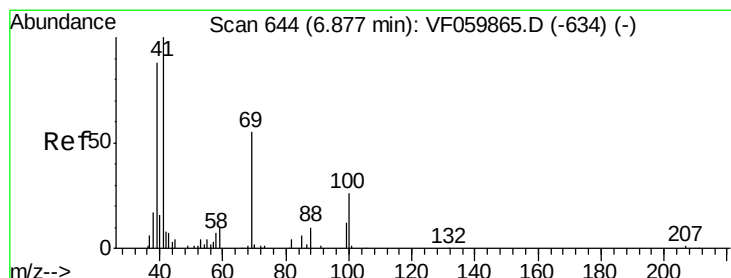
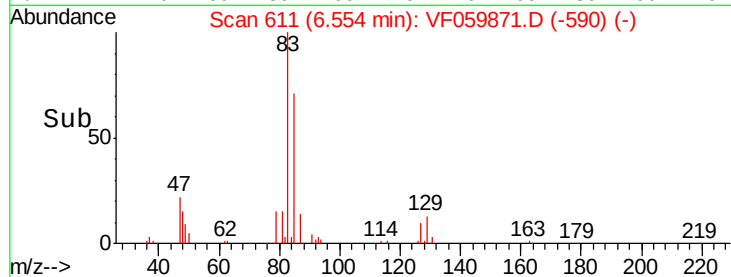
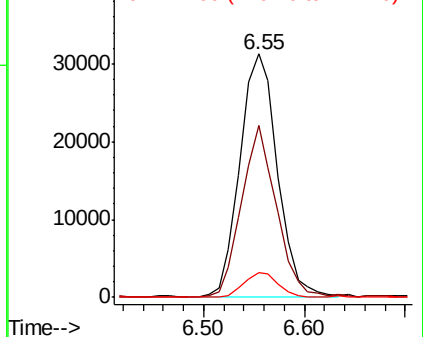
83 100

85 70.8 50.7 76.1

127 10.2 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: 18.515 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

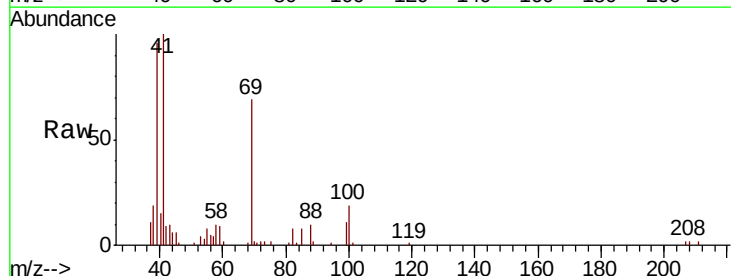
Tgt Ion: 41 Resp: 22591

Ion Ratio Lower Upper

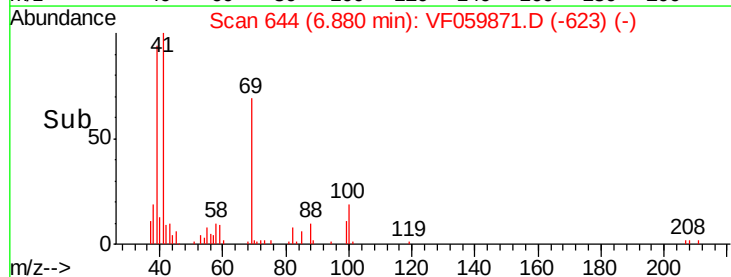
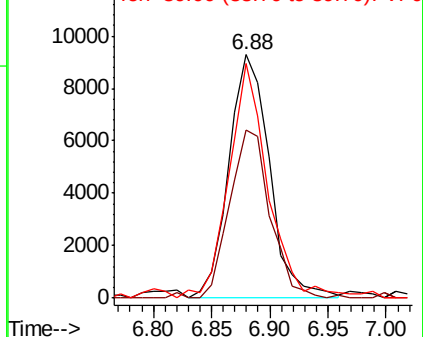
41 100

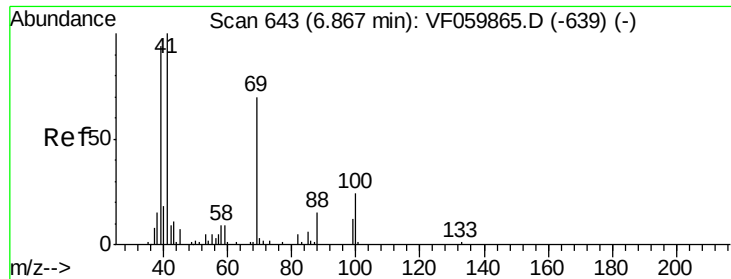
69 68.9 44.4 66.6#

39 96.3 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

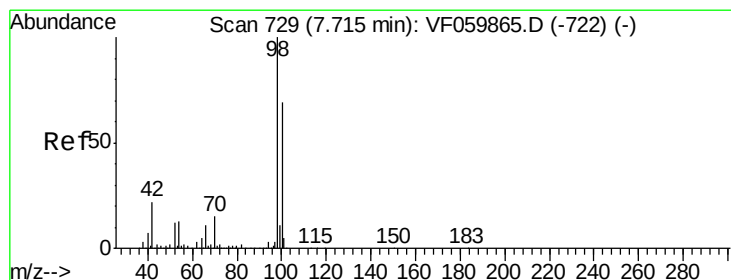
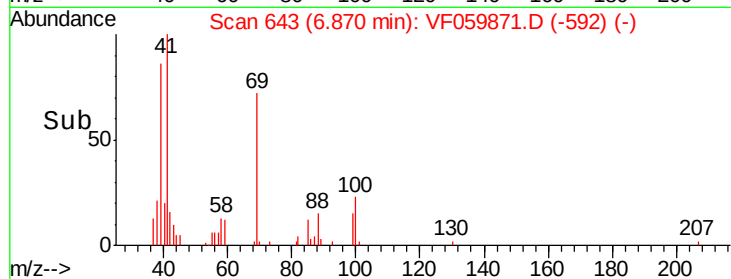
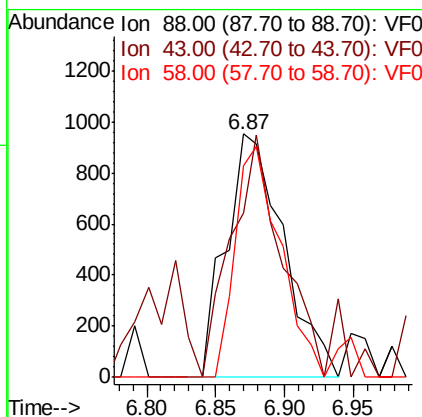
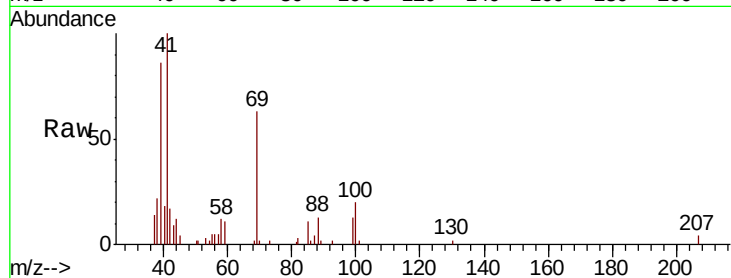




#49
1,4-Dioxane
Concen: 370.280 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

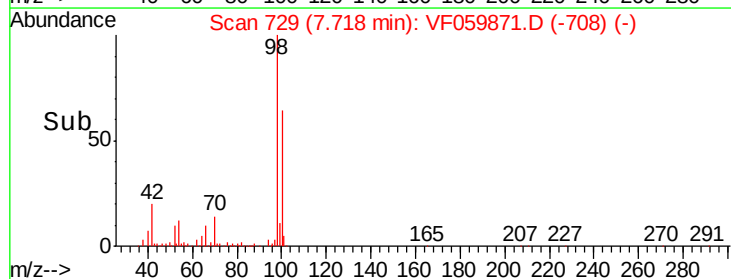
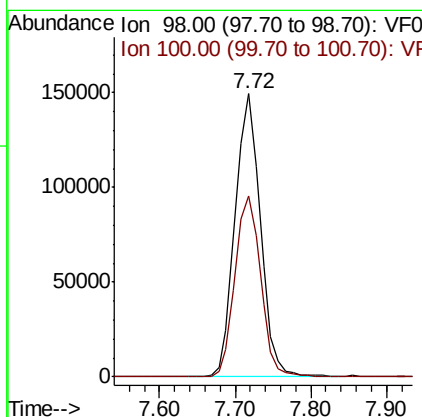
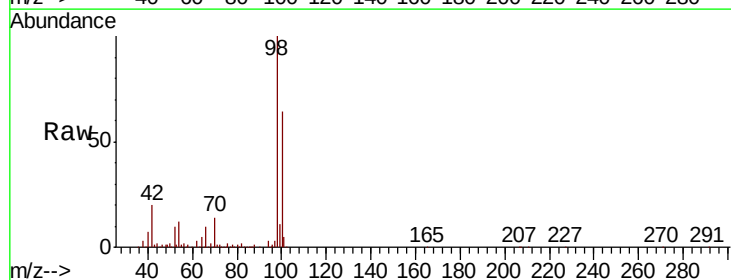
Instrument :
MSVOA_F
ClientSampled :

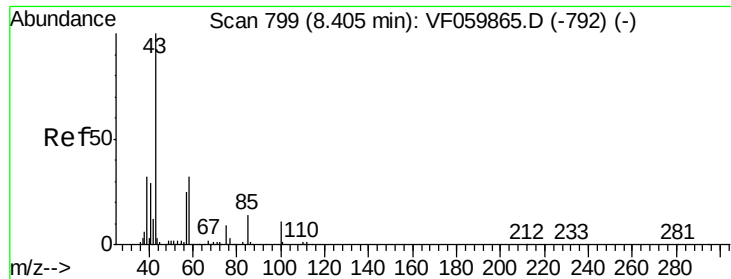
Tot Ion: 88 Resp: 2763
Ion Ratio Lower Upper
88 100
43 67.6 58.3 87.5
58 87.0 49.4 74.2#



#50
Toluene-d8
Concen: 53.401 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 98 Resp: 346700
Ion Ratio Lower Upper
98 100
100 63.8 55.0 82.6





#51

4-Methyl-2-Pentanone

Concen: 96.642 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

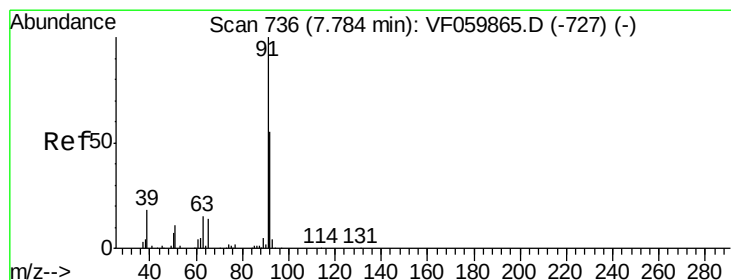
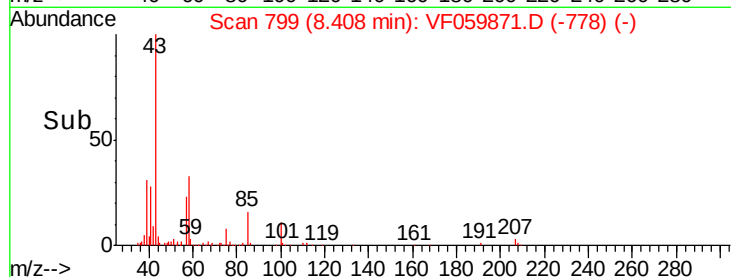
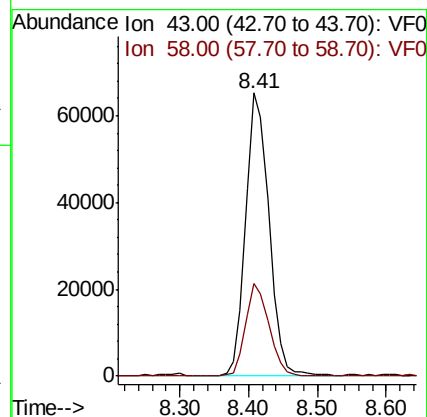
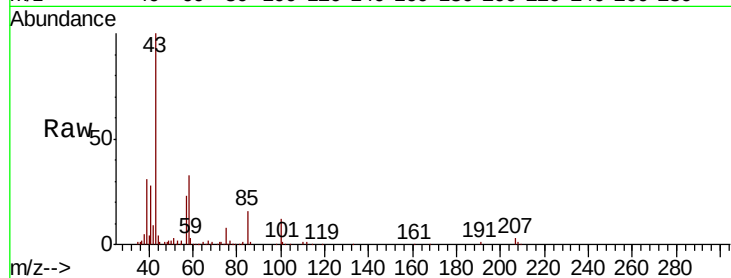
ClientSampleId :

Tot Ion: 43 Resp: 154971

Ion Ratio Lower Upper

43 100

58 32.8 25.4 38.0



#52

Toluene

Concen: 19.757 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF059871.D

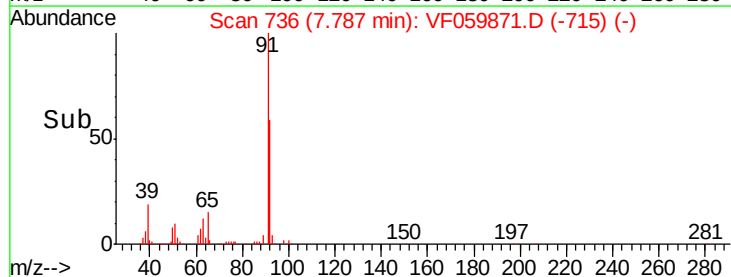
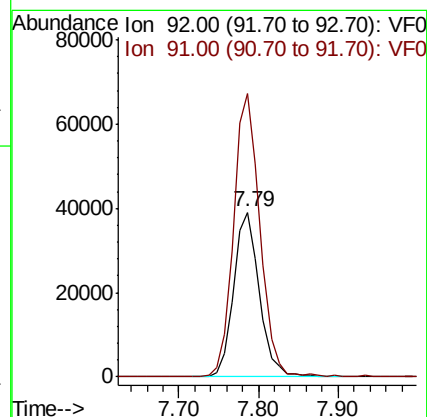
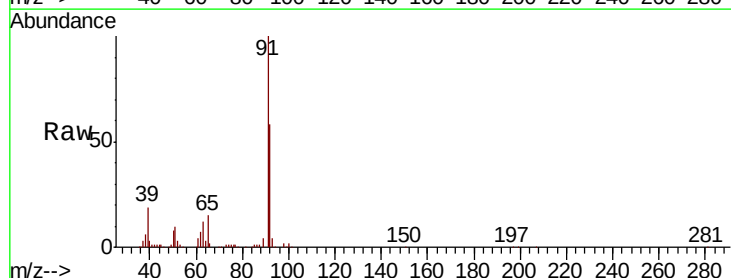
Acq: 4 Aug 2018 8:24

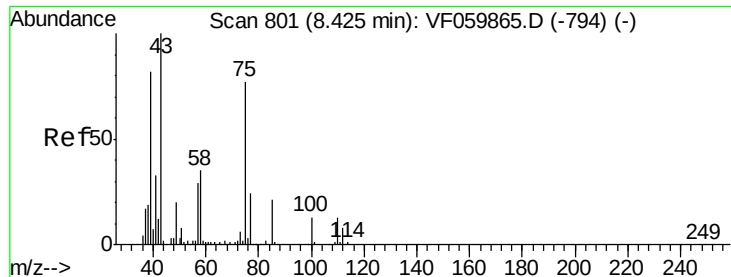
Tgt Ion: 92 Resp: 88521

Ion Ratio Lower Upper

92 100

91 172.1 145.7 218.5

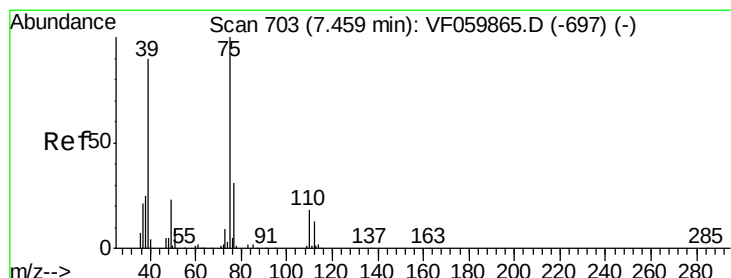
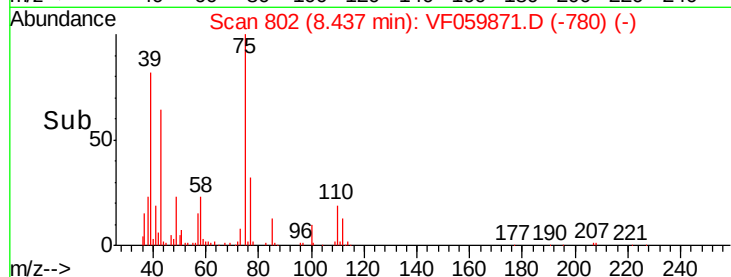
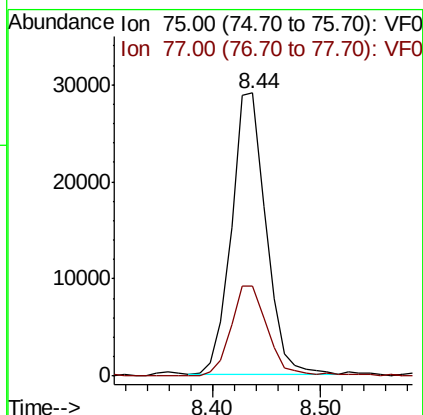
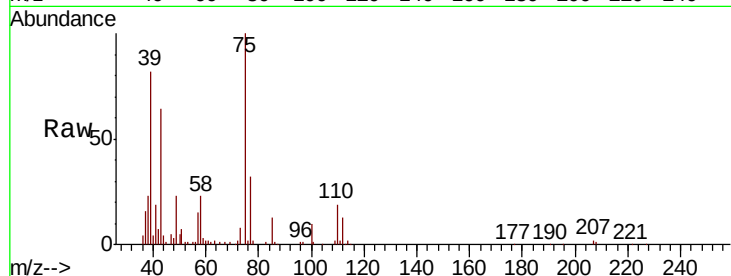




#53
t-1,3-Dichloropropene
Concen: 18.950 ug/l
RT: 8.44 min Scan# 802
Delta R.T. 0.01 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

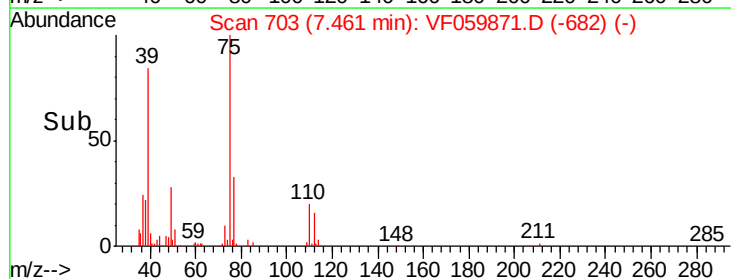
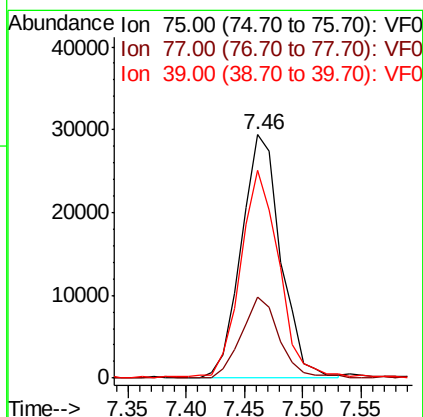
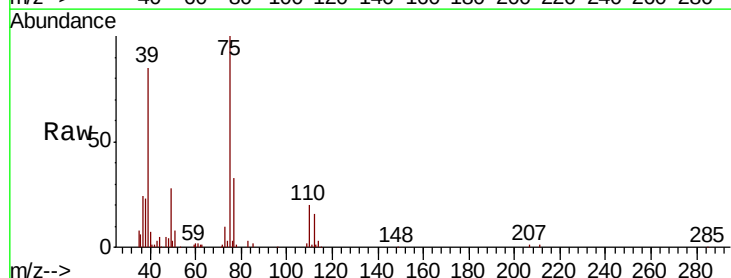
Instrument :
MSVOA_F
ClientSampleId :

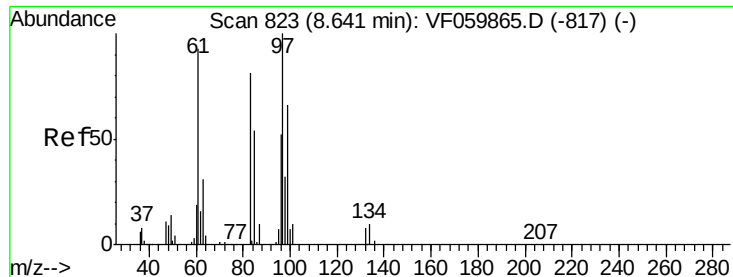
Tot Ion: 75 Resp: 64759
Ion Ratio Lower Upper
75 100
77 31.9 24.5 36.7



#54
cis-1,3-Dichloropropene
Concen: 19.619 ug/l
RT: 7.46 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 75 Resp: 69194
Ion Ratio Lower Upper
75 100
77 33.2 24.7 37.1
39 85.1 72.0 108.0





#55

1,1,2-Trichloroethane

Concen: 20.509 ug/l

RT: 8.64 min Scan# 823

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 97 Resp: 33078

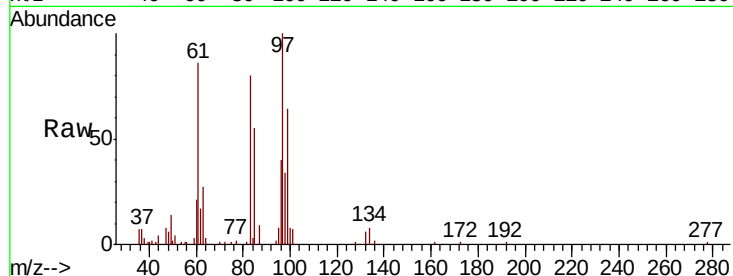
Ion	Ratio	Lower	Upper
97	100		
83	80.4	64.4	96.6
85	54.8	43.1	64.7
99	63.6	52.7	79.1

97 100

83 80.4 64.4 96.6

85 54.8 43.1 64.7

99 63.6 52.7 79.1

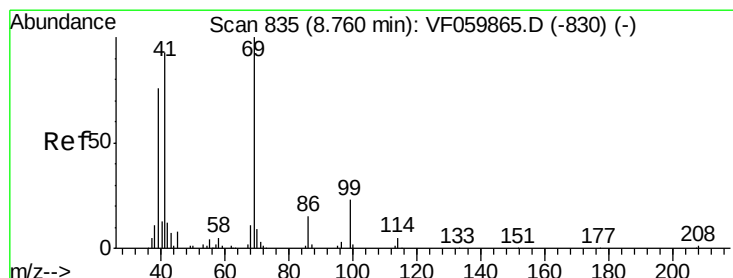
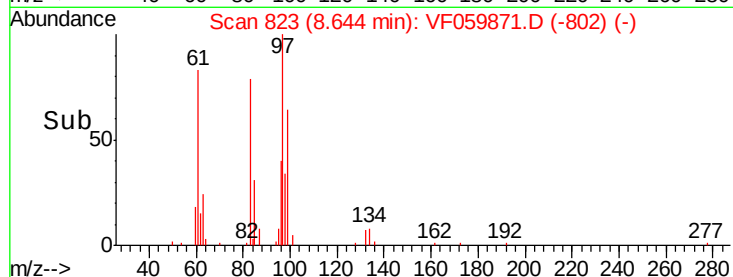
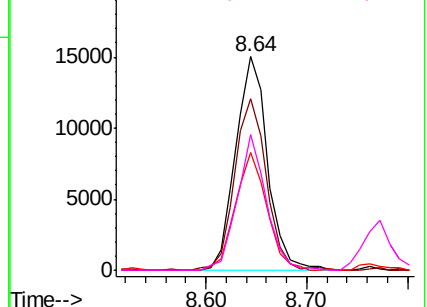


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 18.814 ug/l

RT: 8.77 min Scan# 836

Delta R.T. 0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

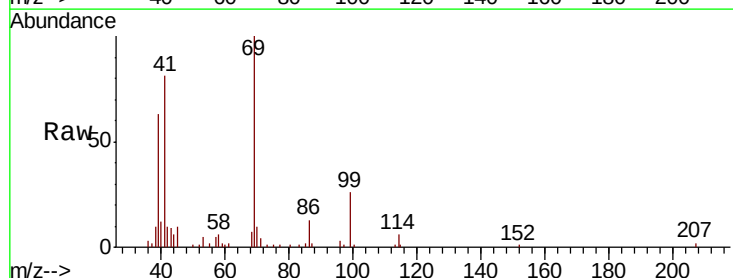
Tgt Ion: 69 Resp: 29305

Ion	Ratio	Lower	Upper
69	100		
41	81.5	74.7	112.1
39	63.2	61.1	91.7

69 100

41 81.5 74.7 112.1

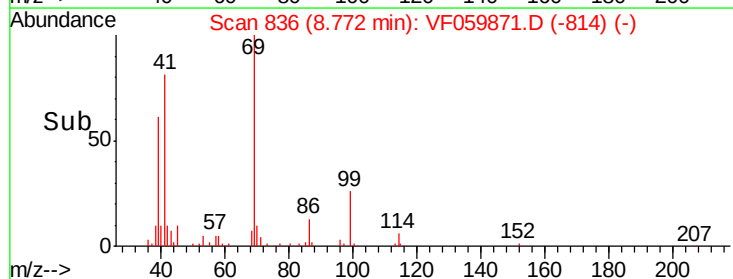
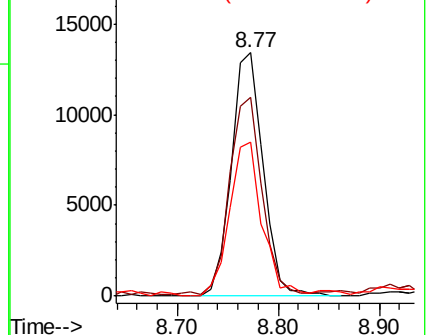
39 63.2 61.1 91.7

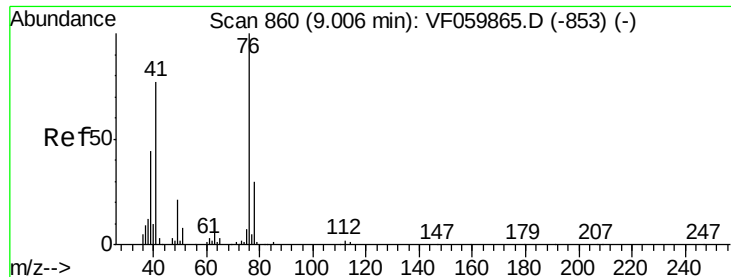


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 19.063 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

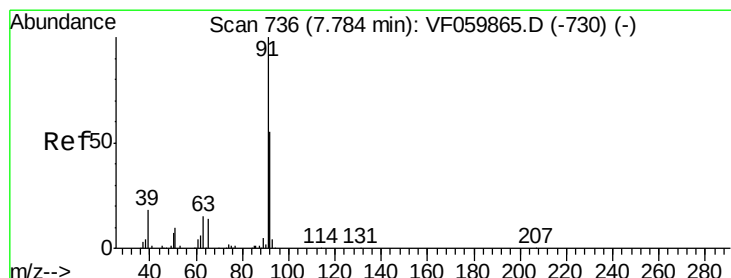
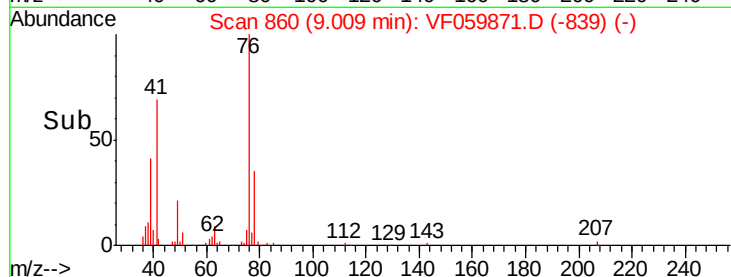
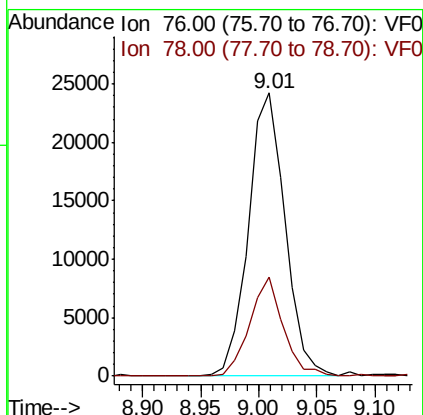
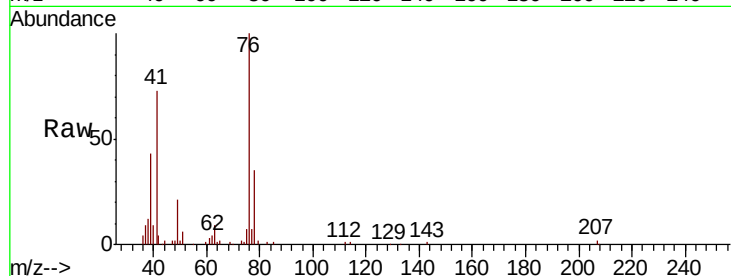
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 76 Resp: 52793

Ion Ratio Lower Upper

76 100

78 35.1 24.2 36.2



#58

2-Chloroethyl Vinyl ether

Concen: 90.334 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.00 min

Lab File: VF059871.D

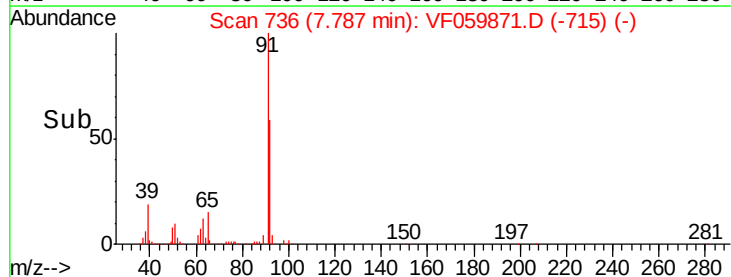
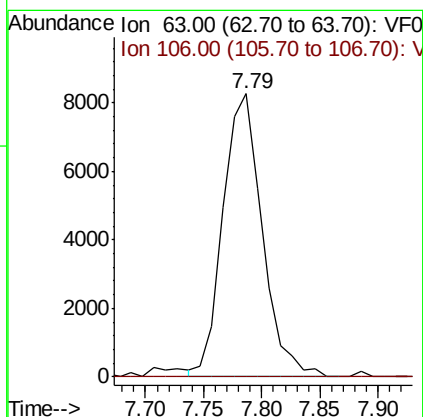
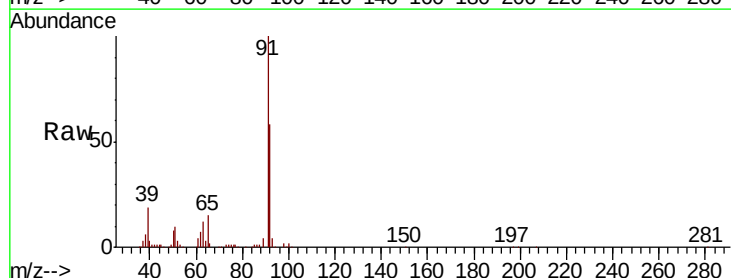
Acq: 4 Aug 2018 8:24

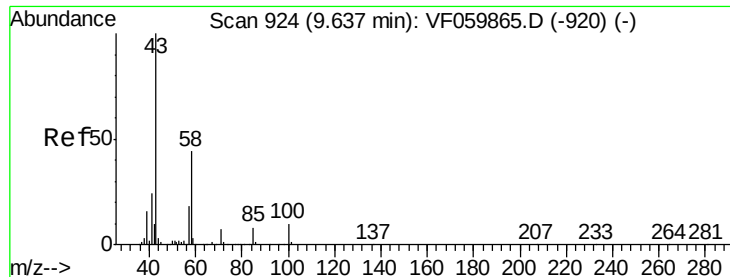
Tgt Ion: 63 Resp: 19275

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

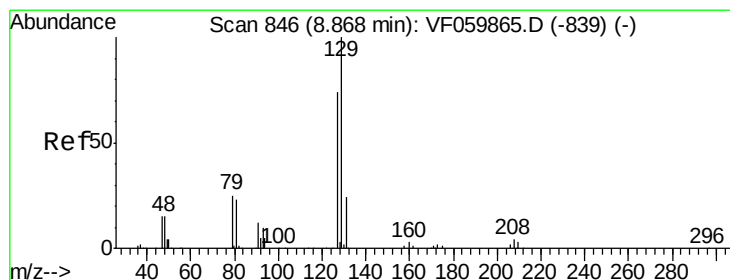
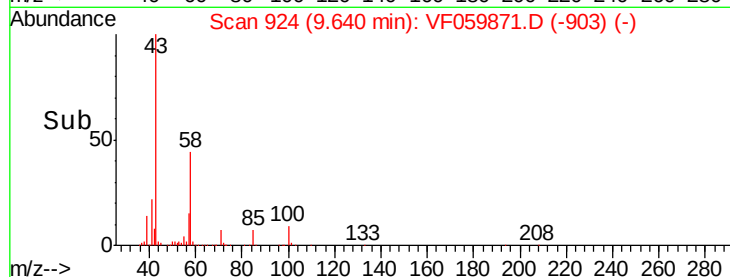
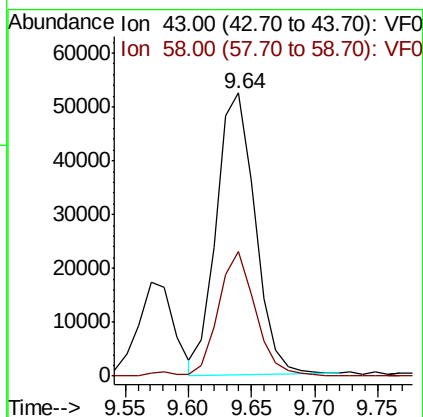
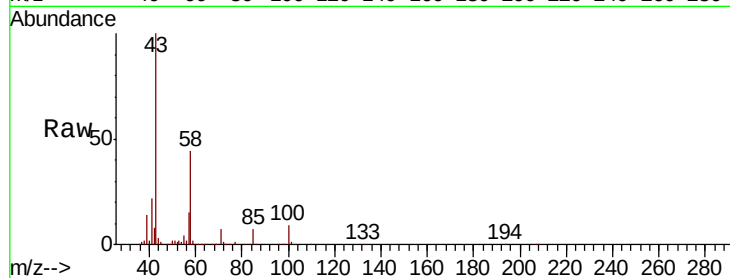




#59
2-Hexanone
Concen: 98.018 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

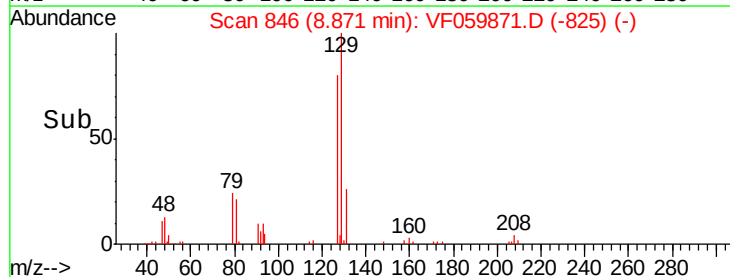
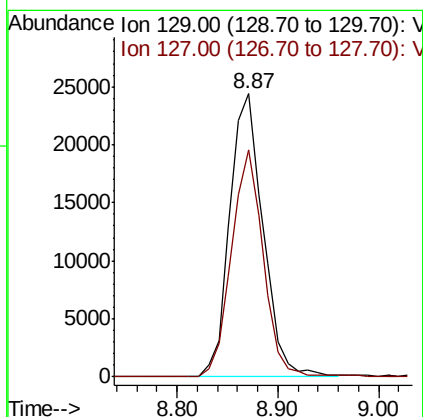
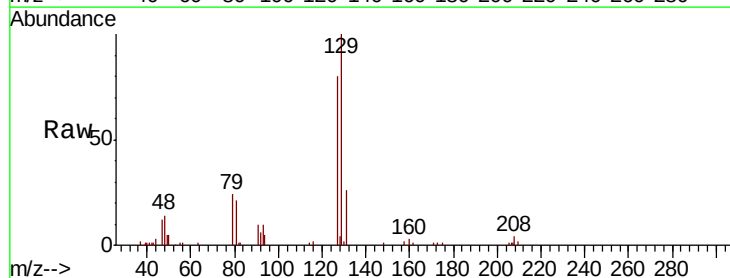
Instrument :
MSVOA_F
ClientSampleId :

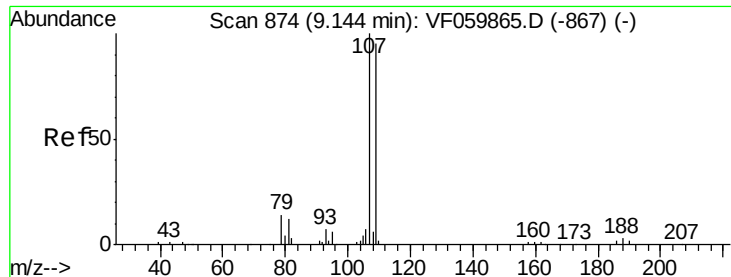
Tot Ion: 43 Resp: 111030
Ion Ratio Lower Upper
43 100
58 44.2 20.8 62.2



#60
Dibromochloromethane
Concen: 18.519 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 129 Resp: 56034
Ion Ratio Lower Upper
129 100
127 80.2 36.9 110.7





#61

1,2-Dibromoethane

Concen: 19.120 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

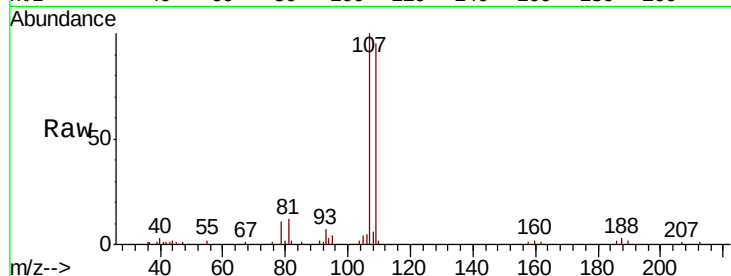
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 107 Resp: 37574

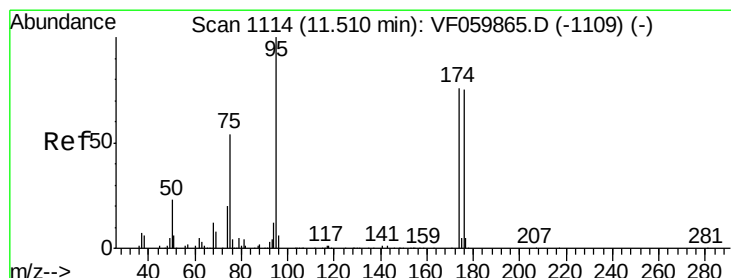
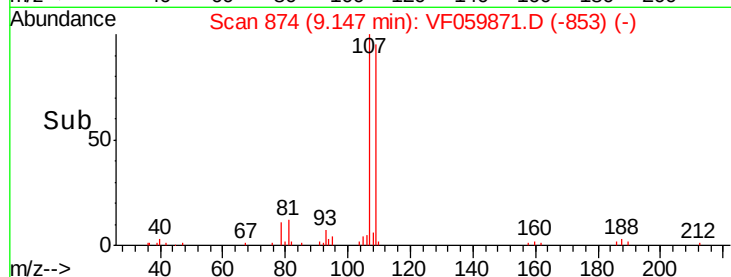
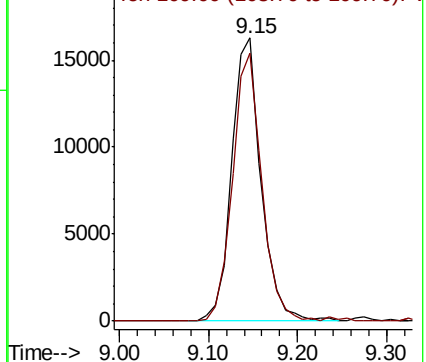
Ion Ratio Lower Upper

107 100

109 94.8 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: 53.716 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

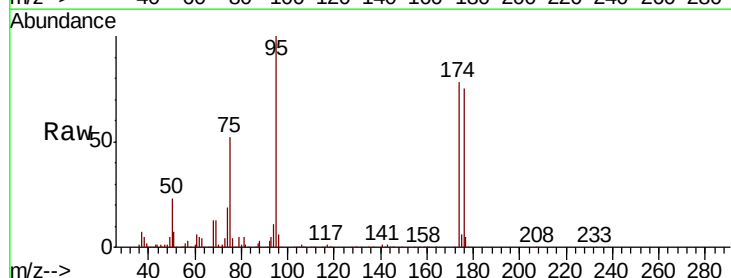
Tgt Ion: 95 Resp: 195973

Ion Ratio Lower Upper

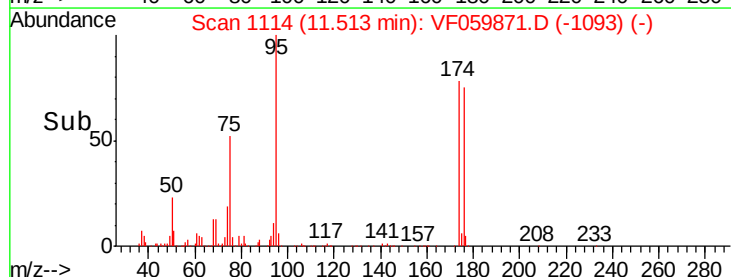
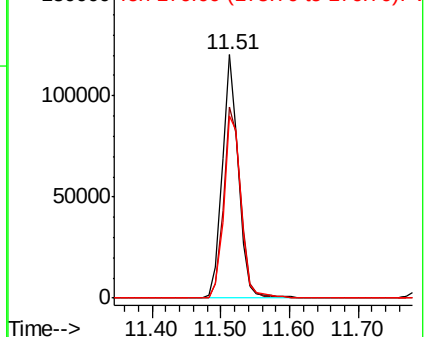
95 100

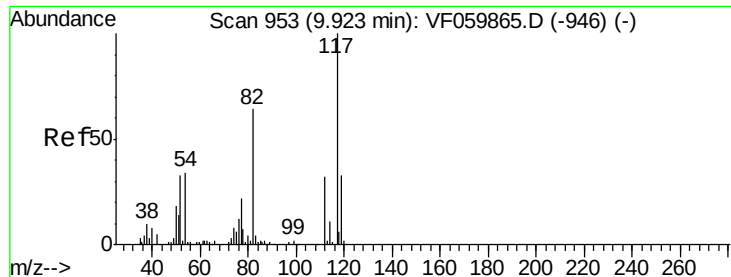
174 78.4 0.0 151.6

176 74.9 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

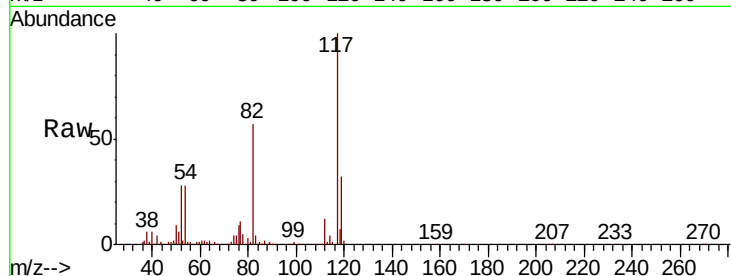




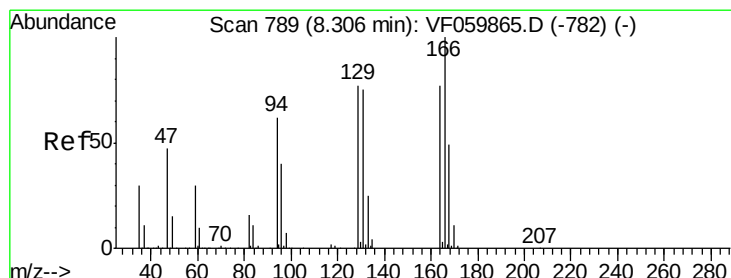
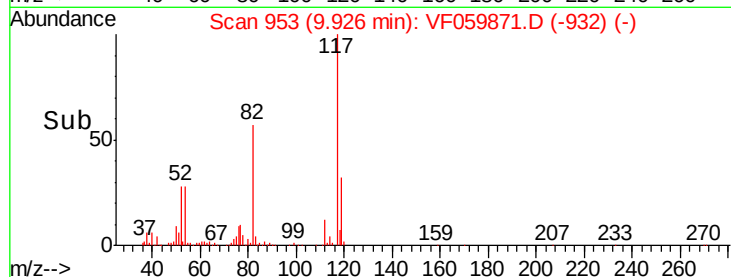
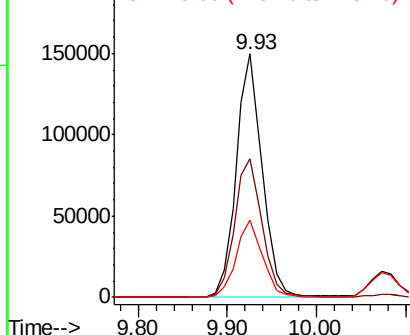
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 305497
Ion Ratio Lower Upper
117 100
82 56.9 51.3 76.9
119 31.9 26.4 39.6

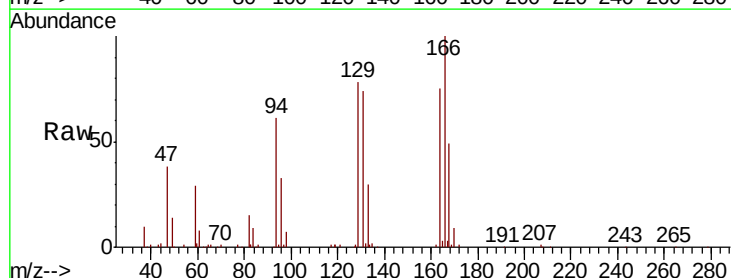


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

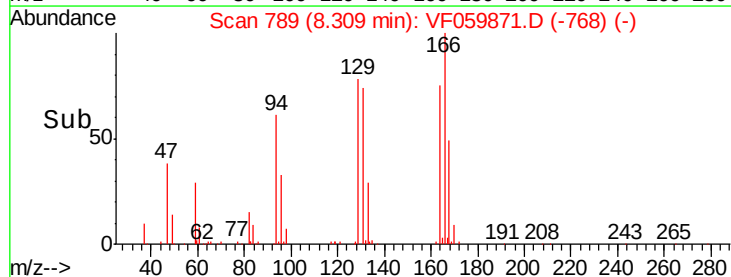
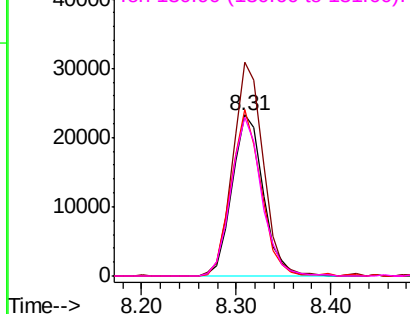


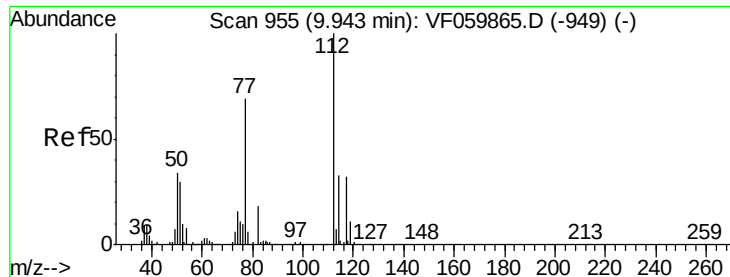
#64
Tetrachloroethene
Concen: 20.085 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion:164 Resp: 52931
Ion Ratio Lower Upper
164 100
166 132.6 104.4 156.6
129 103.3 80.3 120.5
131 98.2 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

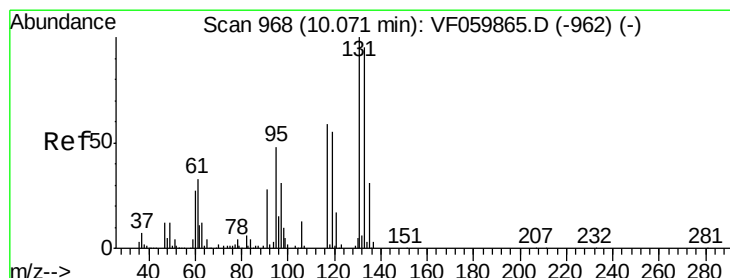
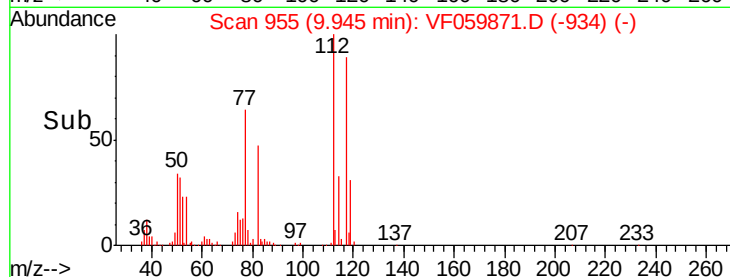
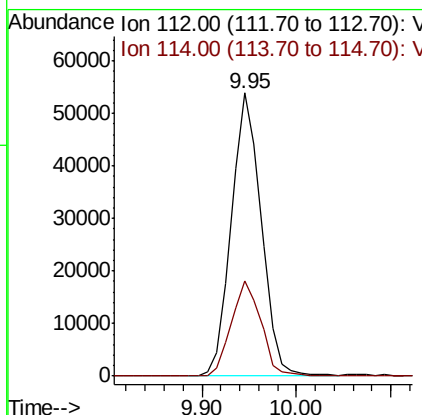
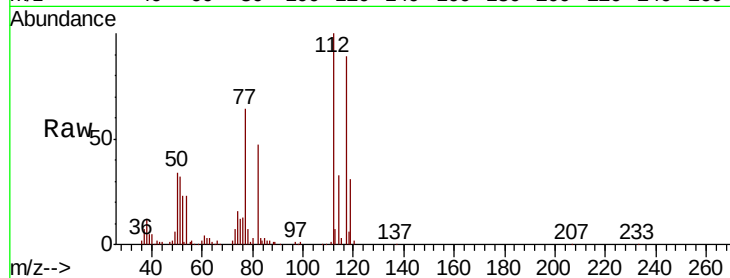




#65
Chlorobenzene
Concen: 19.024 ug/l
RT: 9.95 min Scan# 955
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

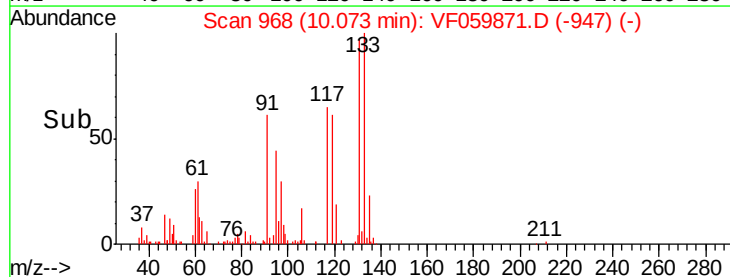
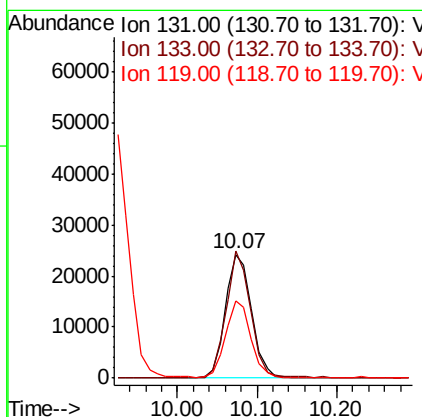
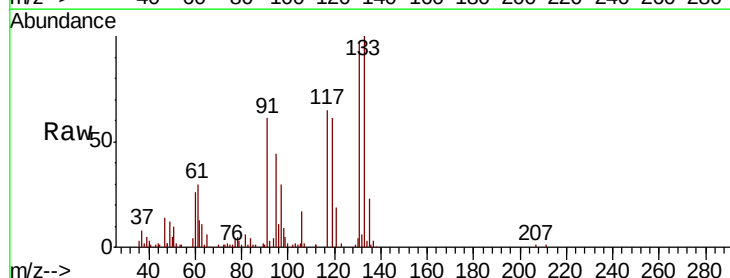
Instrument :
MSVOA_F
ClientSampleId :

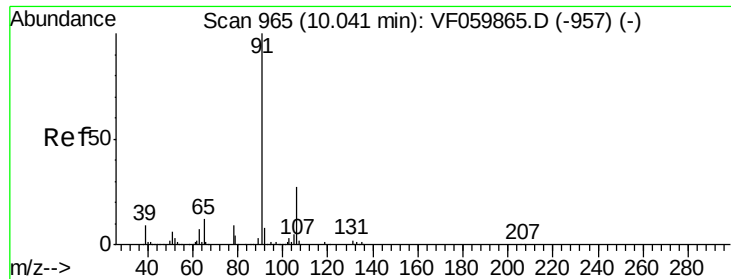
Tot Ion:112 Resp: 117965
Ion Ratio Lower Upper
112 100
114 33.5 26.4 39.6



#66
1,1,1,2-Tetrachloroethane
Concen: 18.212 ug/l
RT: 10.07 min Scan# 968
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion:131 Resp: 56176
Ion Ratio Lower Upper
131 100
133 102.6 47.4 142.2
119 63.0 27.7 83.1

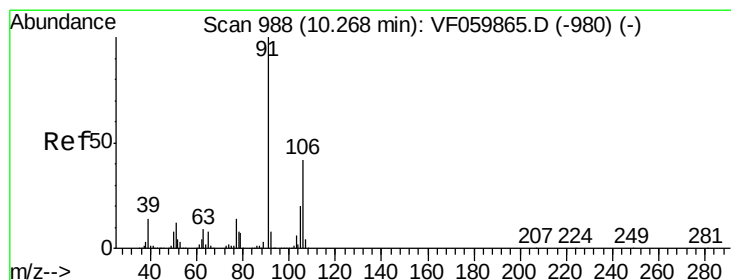
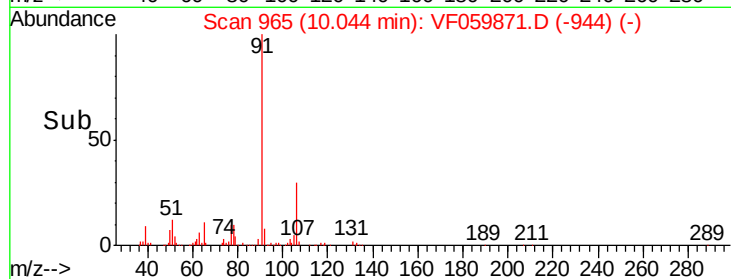
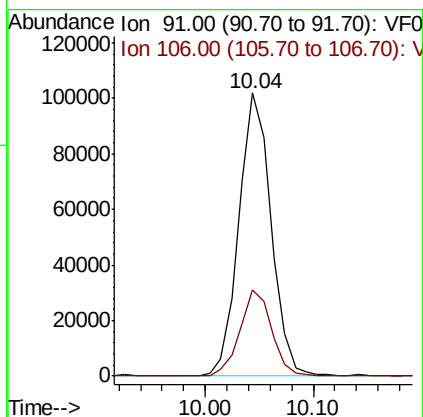
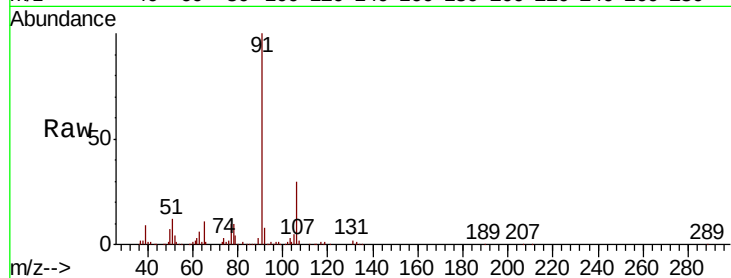




#67
Ethyl Benzene
Concen: 19.577 ug/l
RT: 10.04 min Scan# 965
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

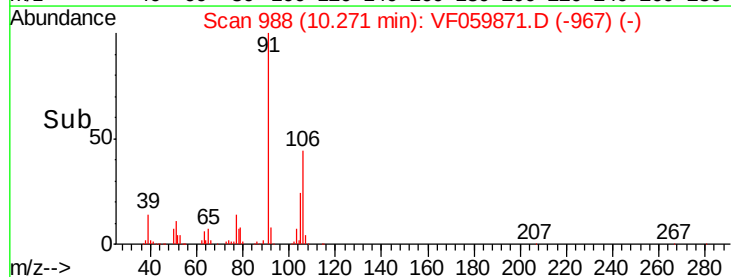
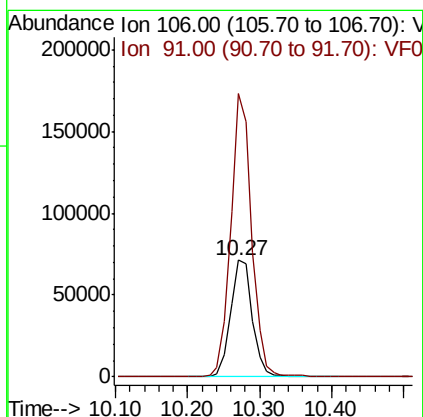
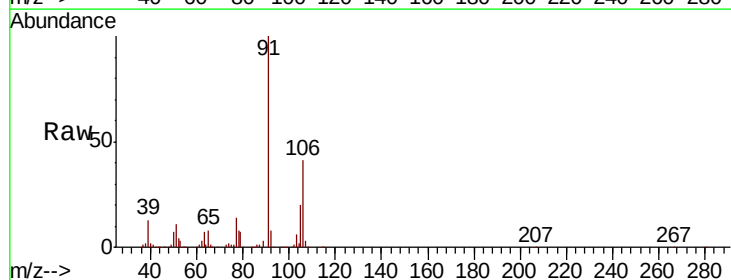
Instrument :
MSVOA_F
ClientSampled :

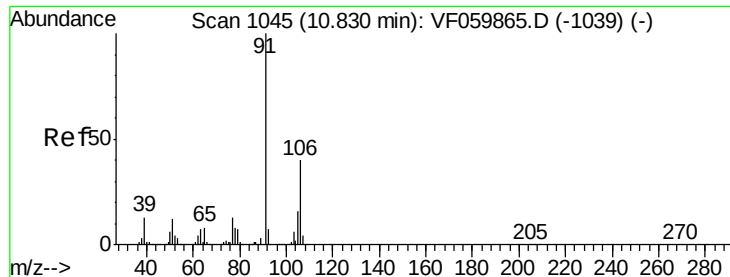
Tot Ion: 91 Resp: 211488
Ion Ratio Lower Upper
91 100
106 30.4 21.5 32.3



#68
m/p-Xylenes
Concen: 40.322 ug/l
RT: 10.27 min Scan# 988
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion: 106 Resp: 150578
Ion Ratio Lower Upper
106 100
91 242.9 192.1 288.1

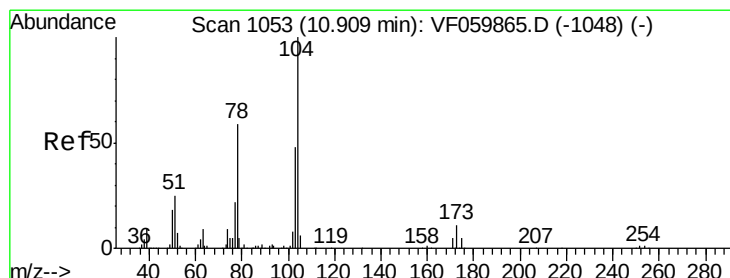
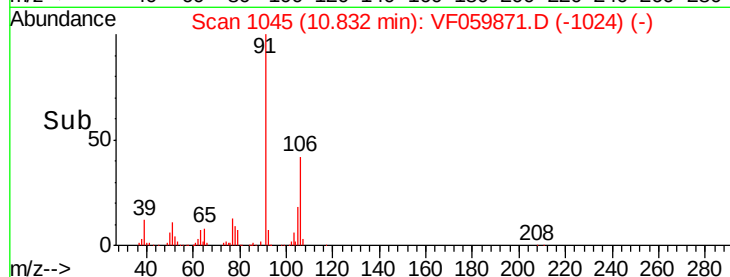
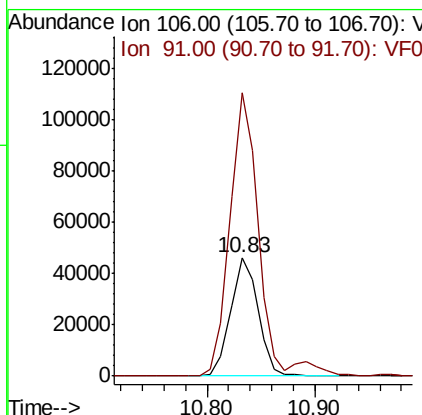
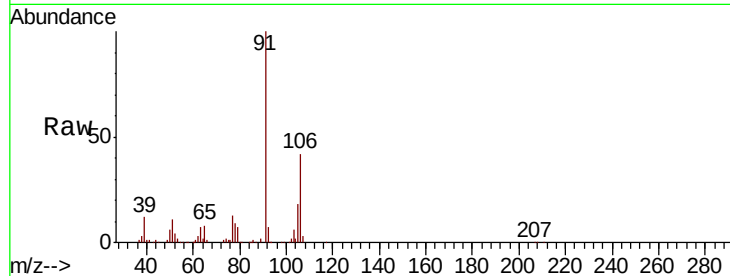




#69
o-Xylene
Concen: 20.856 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

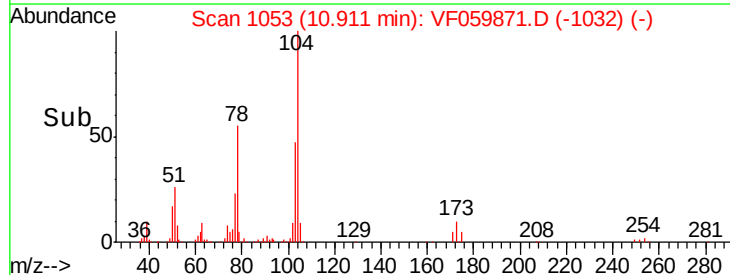
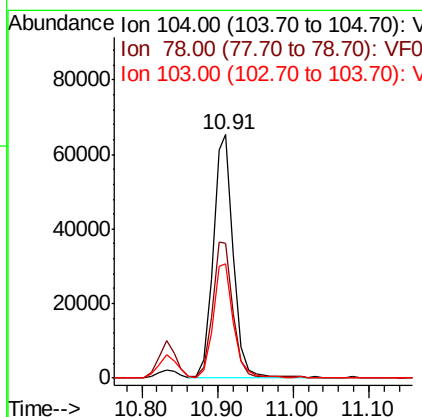
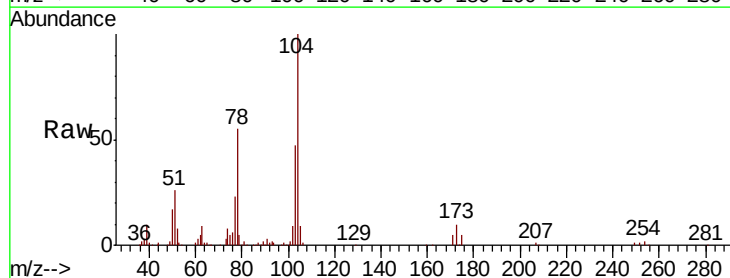
Instrument :
MSVOA_F
ClientSampled :

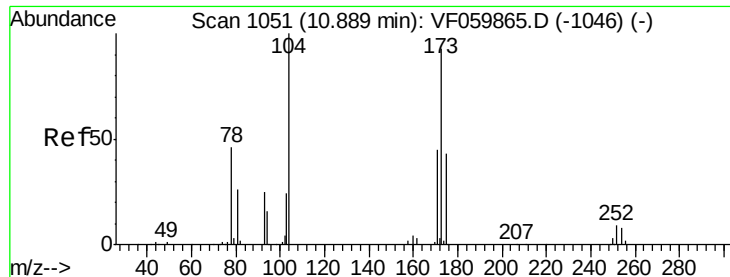
Tot Ion:106 Resp: 82505
Ion Ratio Lower Upper
106 100
91 238.9 125.4 376.2



#70
Styrene
Concen: 20.543 ug/l
RT: 10.91 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion:104 Resp: 121272
Ion Ratio Lower Upper
104 100
78 55.3 47.3 70.9
103 47.2 39.0 58.4





#71

Bromoform

Concen: 18.585 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampled :

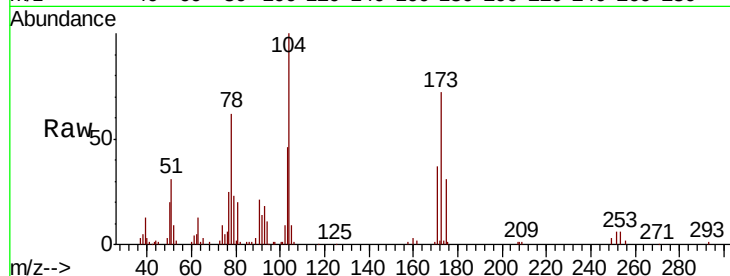
Tot Ion:173 Resp: 35133

Ion Ratio Lower Upper

173 100

175 43.7 23.4 70.2

254 0.0 0.0 0.0

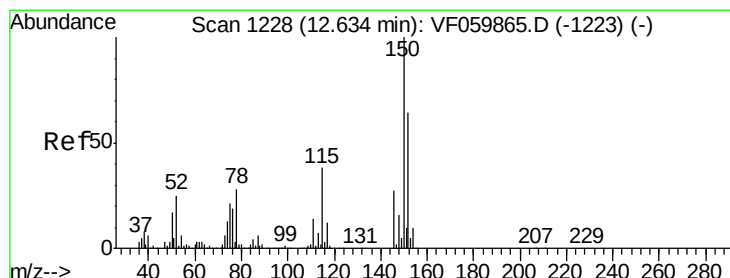
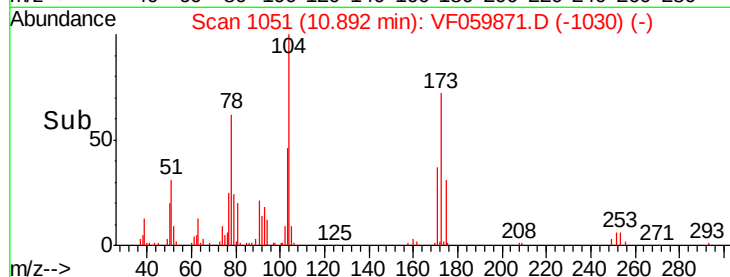
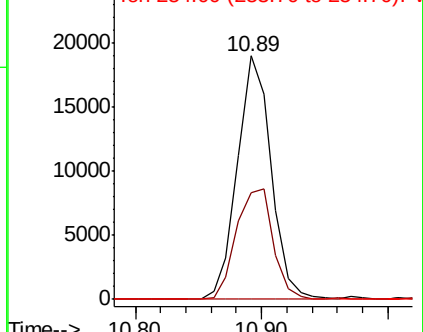


Abundance

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: 12.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

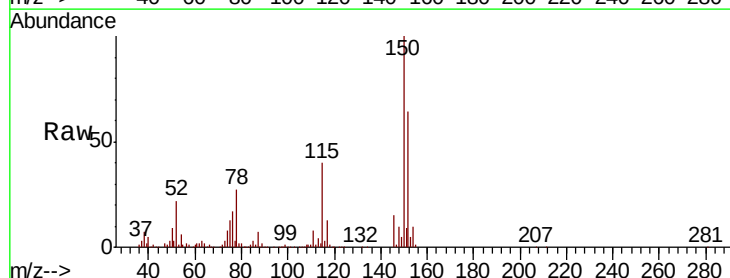
Tgt Ion:152 Resp: 197522

Ion Ratio Lower Upper

152 100

115 61.8 29.8 89.4

150 156.3 0.0 315.6

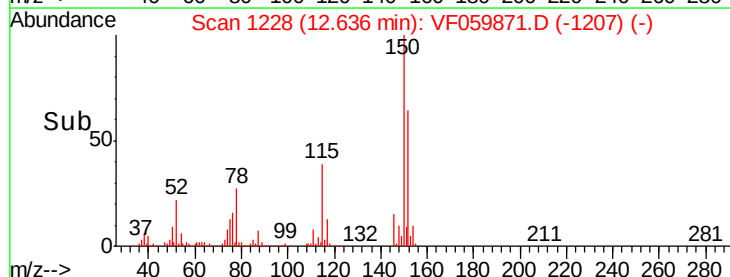
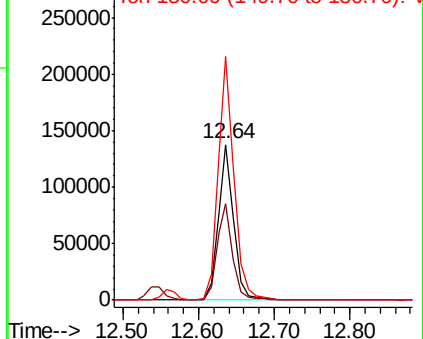


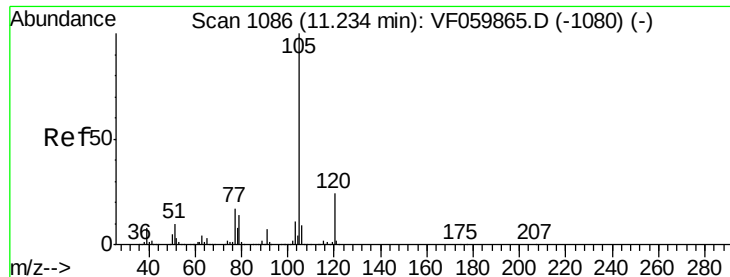
Abundance

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: 21.434 ug/l

RT: 11.24 min Scan# 1086

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

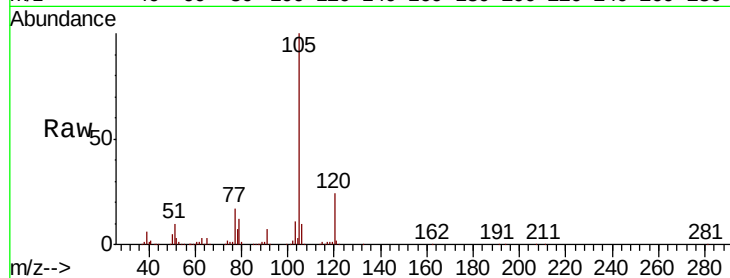
ClientSampleId :

Tot Ion:105 Resp: 263699

Ion Ratio Lower Upper

105 100

120 24.4 12.1 36.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.24

150000

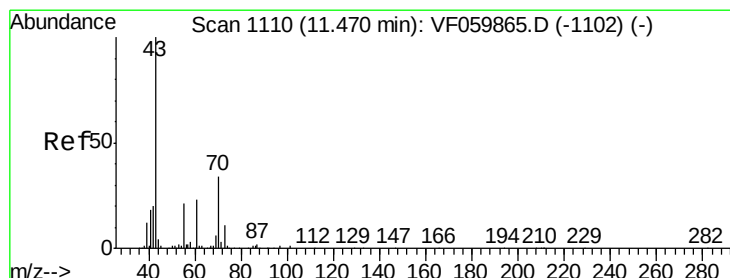
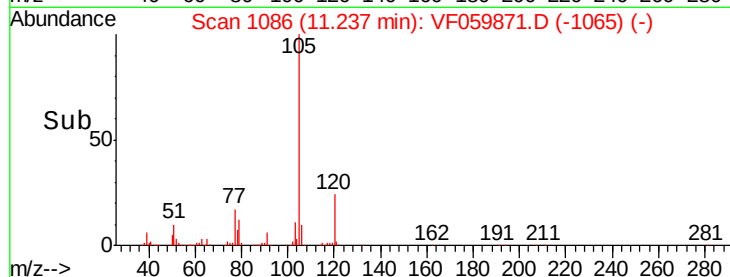
100000

50000

0

Time-->

11.20 11.30 11.40



#74

N-ethyl acetate

Concen: 20.602 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. -0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Tgt Ion: 43 Resp: 57093

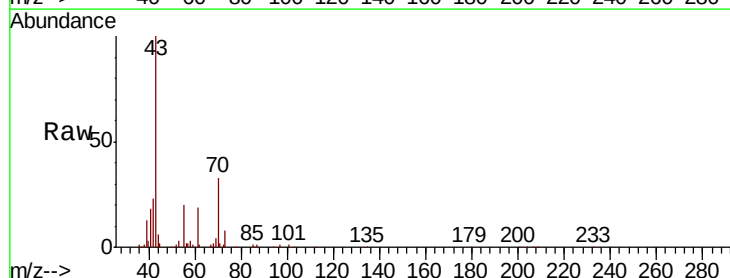
Ion Ratio Lower Upper

43 100

70 33.1 27.5 41.3

55 19.6 16.6 25.0

61 18.5 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

50000

40000

30000

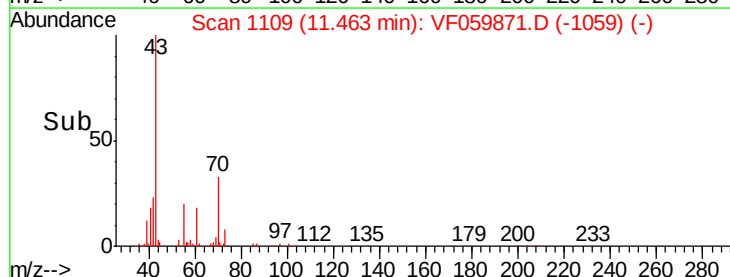
20000

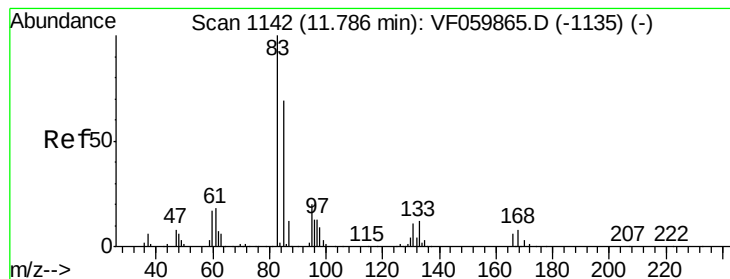
10000

0

Time-->

11.40 11.50 11.60





#75

1,1,2,2-Tetrachloroethane

Concen: 19.980 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampleId :

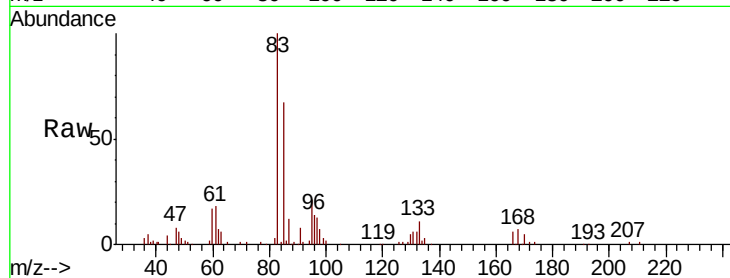
Tot Ion: 83 Resp: 46150

Ion Ratio Lower Upper

83 100

131 6.0 5.3 15.9

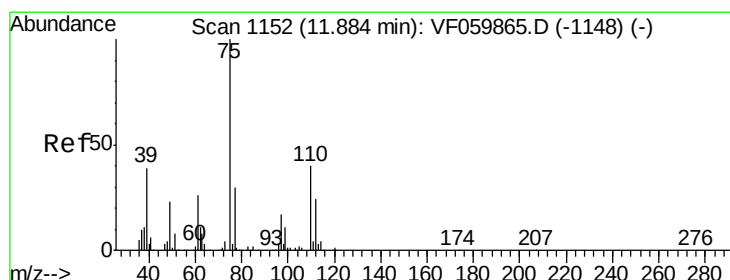
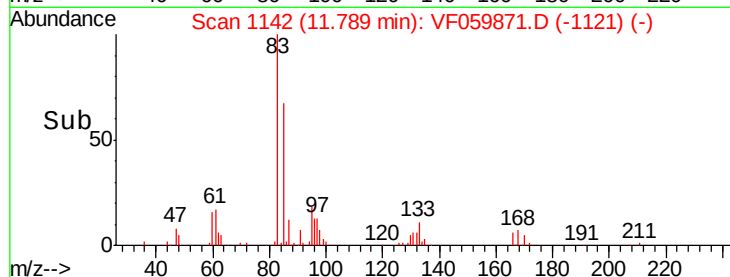
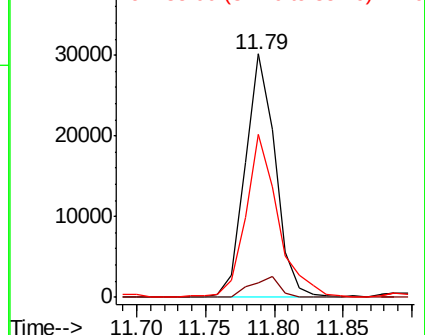
85 66.8 34.5 103.5



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 19.632 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF059871.D

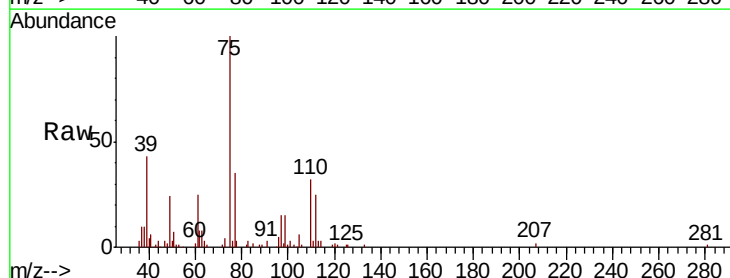
Acq: 4 Aug 2018 8:24

Tgt Ion: 75 Resp: 38949

Ion Ratio Lower Upper

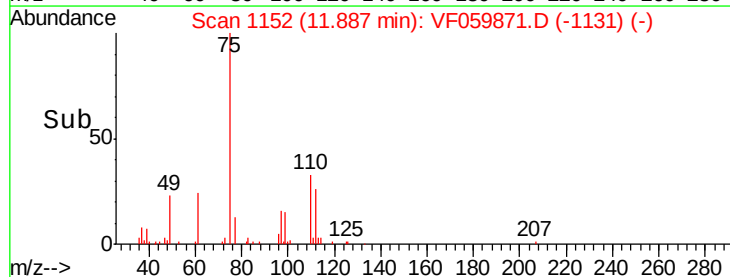
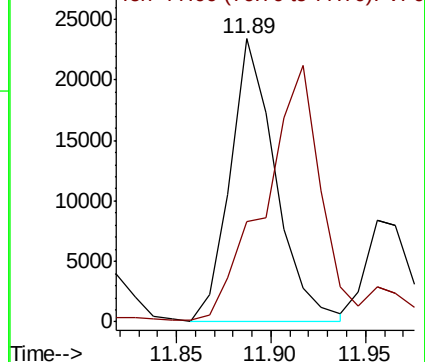
75 100

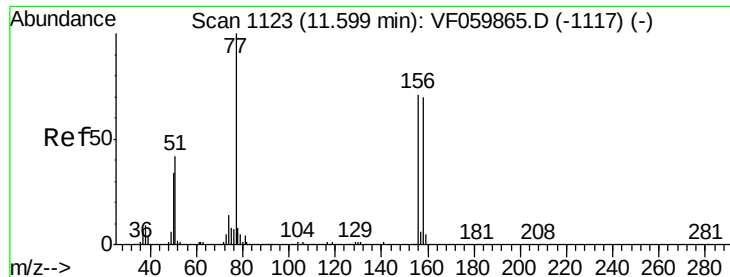
77 35.3 15.4 46.2



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 19.880 ug/l

RT: 11.60 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampleId :

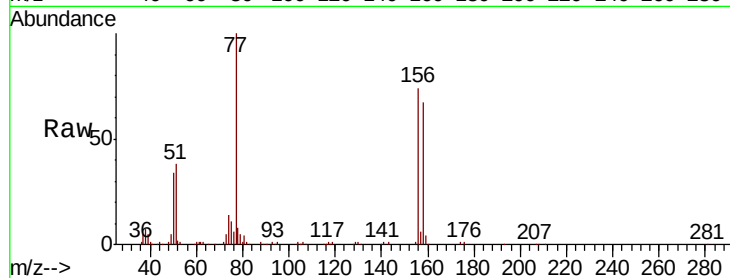
Tot Ion:156 Resp: 66513

Ion Ratio Lower Upper

156 100

77 135.1 70.2 210.6

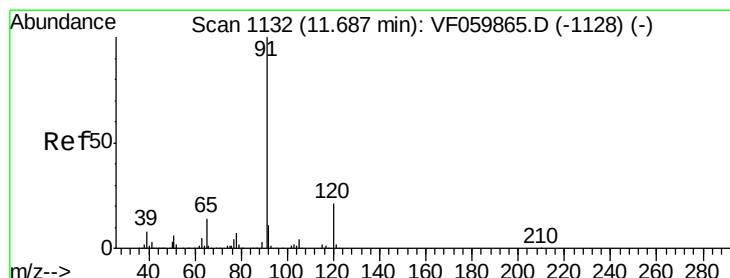
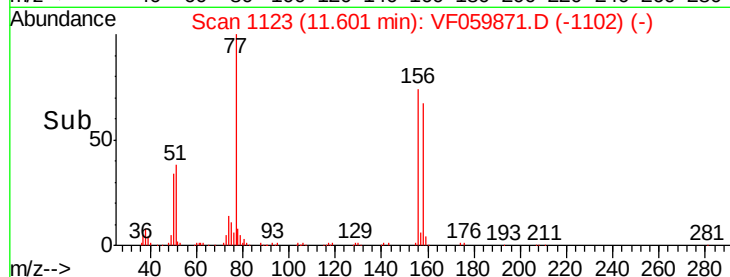
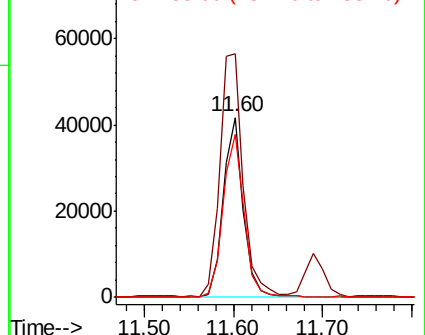
158 90.7 49.2 147.6



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: 21.238 ug/l

RT: 11.69 min Scan# 1132

Delta R.T. 0.00 min

Lab File: VF059871.D

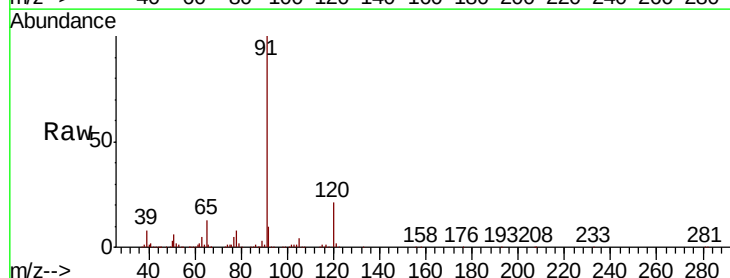
Acq: 4 Aug 2018 8:24

Tgt Ion: 91 Resp: 308578

Ion Ratio Lower Upper

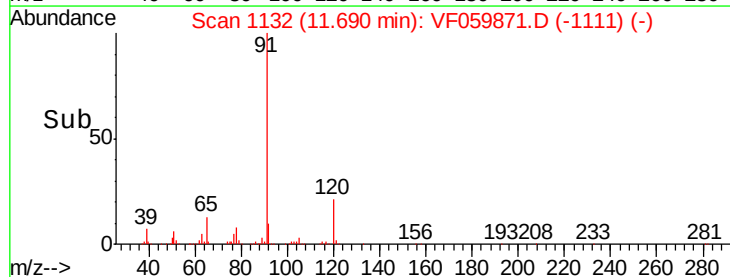
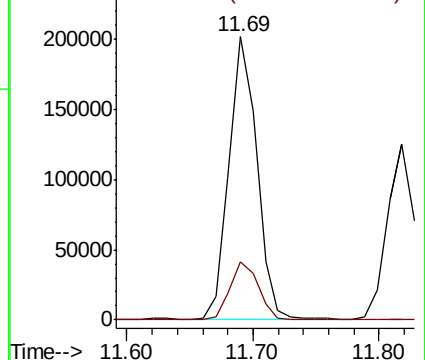
91 100

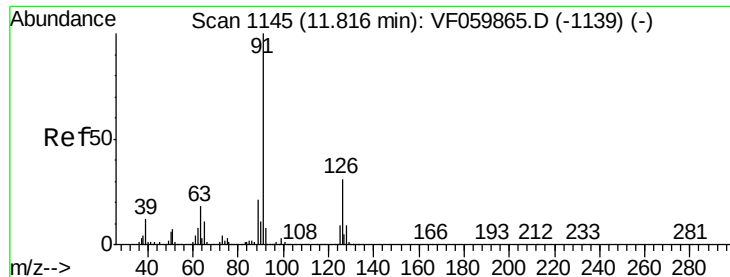
120 20.7 10.4 31.2



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

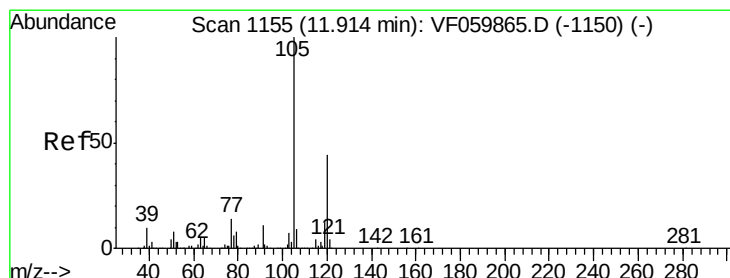
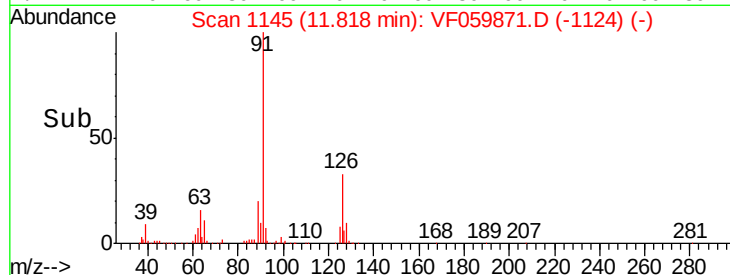
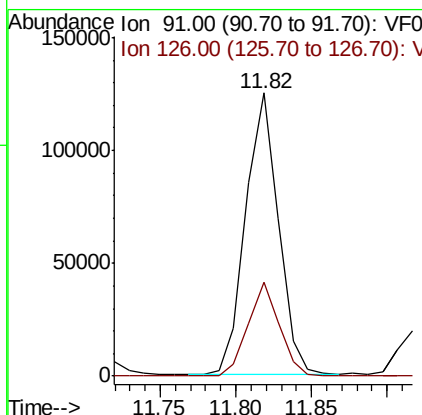
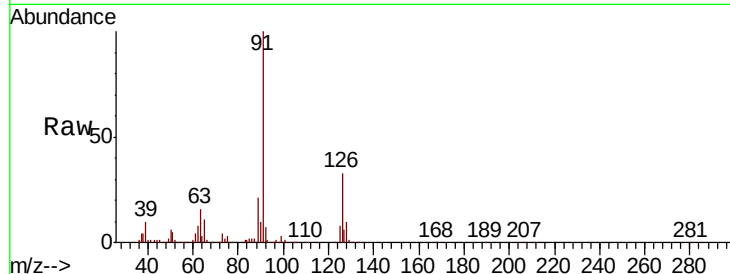




#79
 2-Chlorotoluene
 Concen: 20.536 ug/l
 RT: 11.82 min Scan# 1145
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

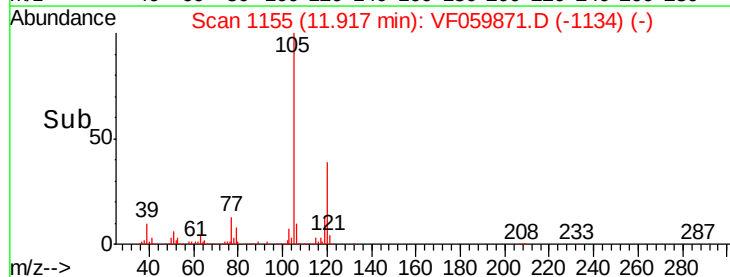
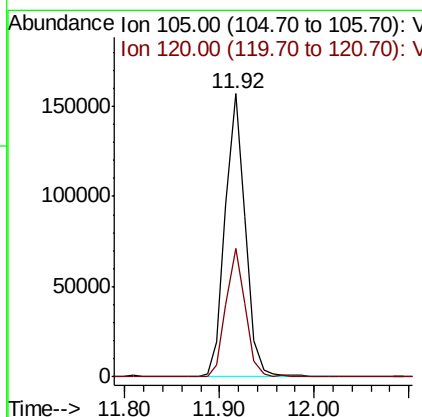
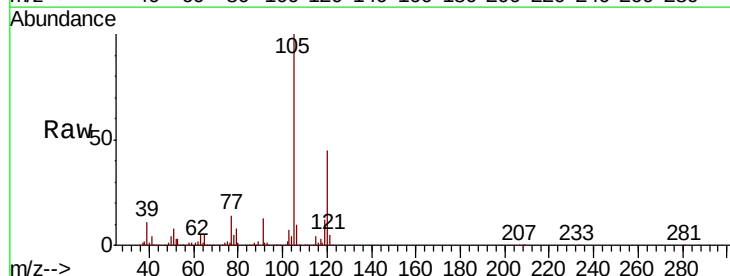
Instrument :
 MSVOA_F
 ClientSampleId :

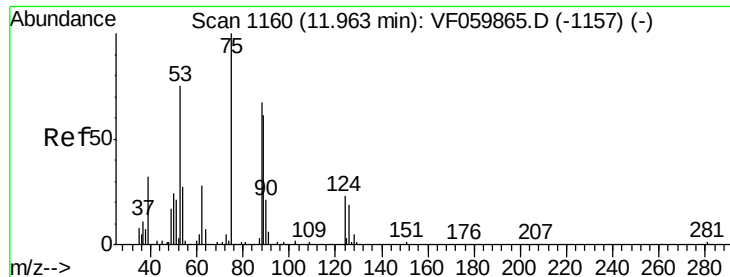
Tot Ion: 91 Resp: 188740
 Ion Ratio Lower Upper
 91 100
 126 33.0 15.6 46.7



#80
 1,3,5-Trimethylbenzene
 Concen: 20.243 ug/l
 RT: 11.92 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Tgt Ion:105 Resp: 231263
 Ion Ratio Lower Upper
 105 100
 120 45.3 21.9 65.7





#81

trans-1,4-Dichloro-2-butene

Concen: 29.012 ug/l

RT: 11.96 min Scan# 1159

Delta R.T. -0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampleId :

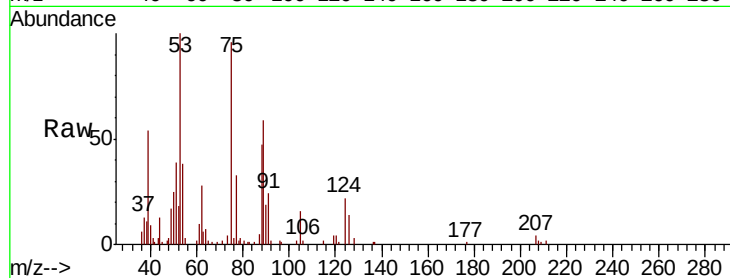
Tot Ion: 75 Resp: 20674

Ion Ratio Lower Upper

75 100

53 104.6 65.9 98.9#

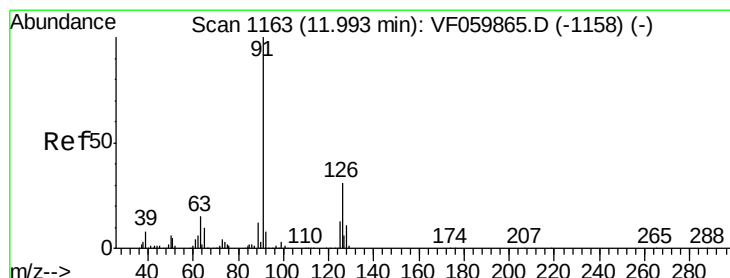
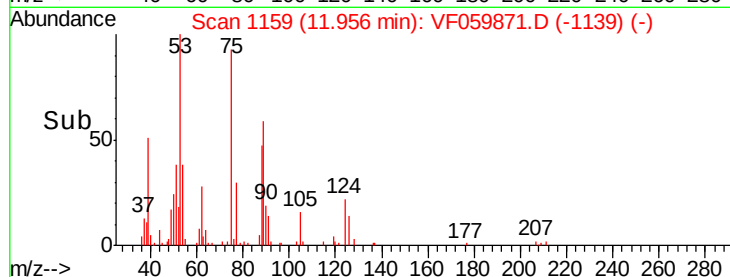
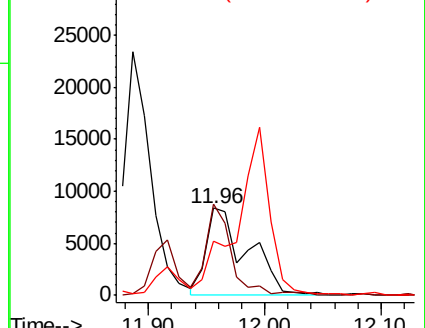
89 62.0 50.6 76.0



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: 19.644 ug/l

RT: 12.00 min Scan# 1163

Delta R.T. 0.00 min

Lab File: VF059871.D

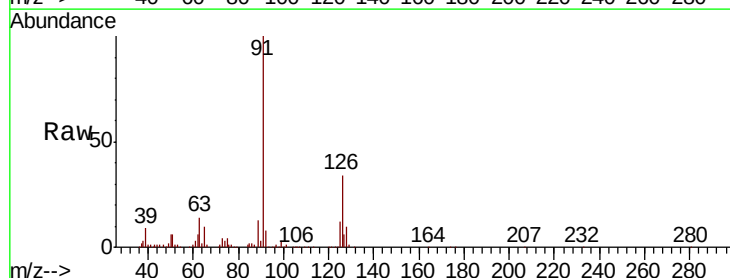
Acq: 4 Aug 2018 8:24

Tgt Ion: 91 Resp: 196037

Ion Ratio Lower Upper

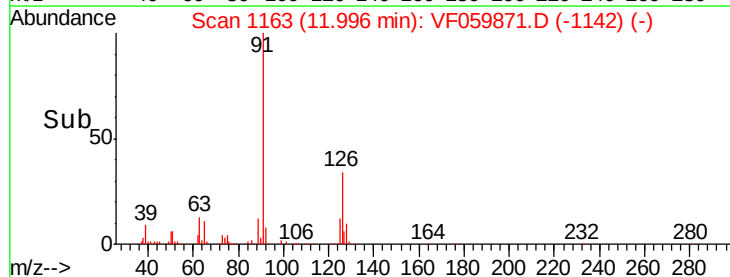
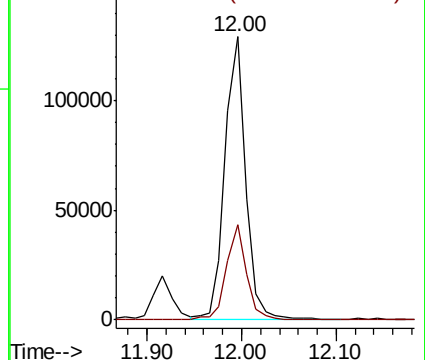
91 100

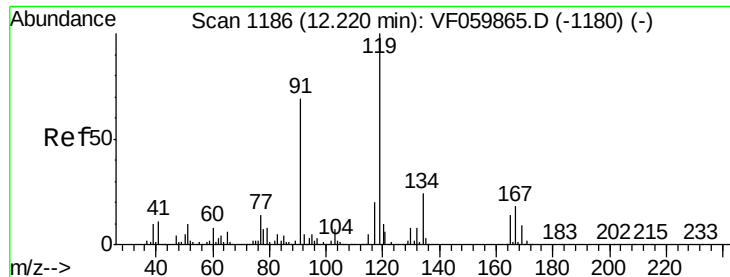
126 33.7 15.7 47.0



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

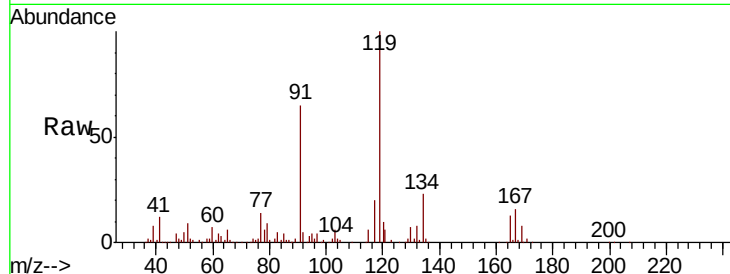




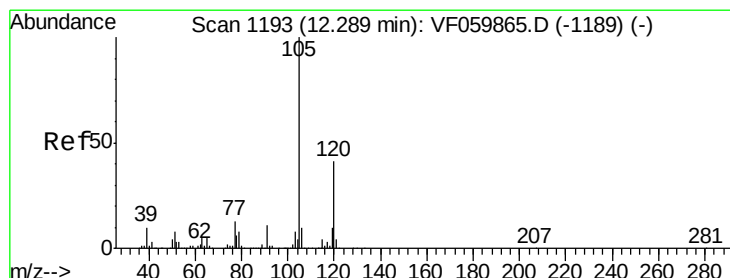
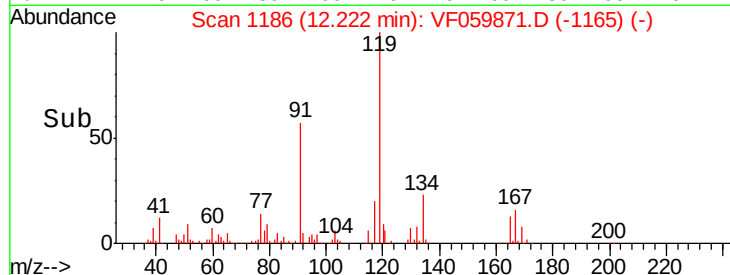
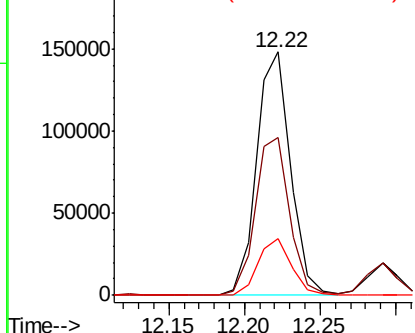
#83
 tert-Butylbenzene
 Concen: 20.938 ug/l
 RT: 12.22 min Scan# 1186
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:119 Resp: 232833
 Ion Ratio Lower Upper
 119 100
 91 64.8 34.4 103.2
 134 23.5 12.1 36.3

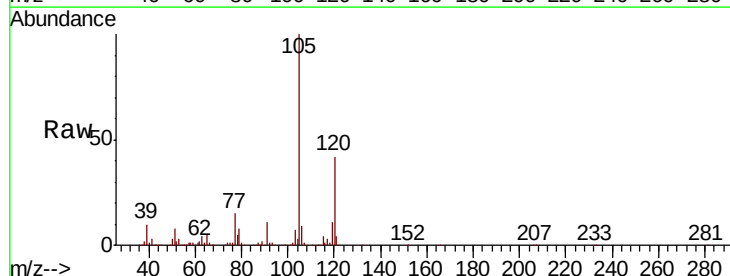


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

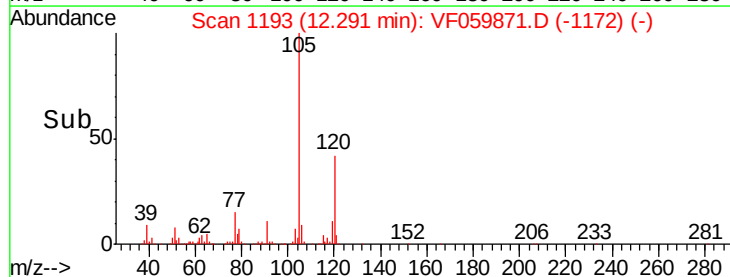
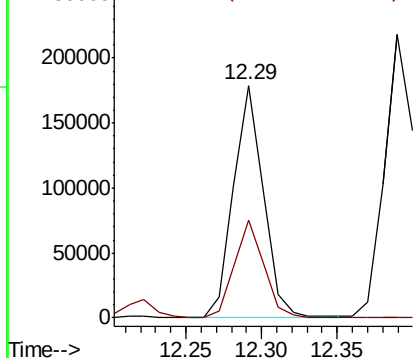


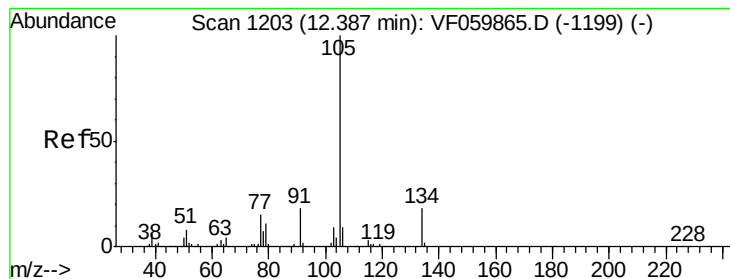
#84
 1,2,4-Trimethylbenzene
 Concen: 20.979 ug/l
 RT: 12.29 min Scan# 1193
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Tgt Ion:105 Resp: 246496
 Ion Ratio Lower Upper
 105 100
 120 42.3 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: 20.776 ug/l

RT: 12.39 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

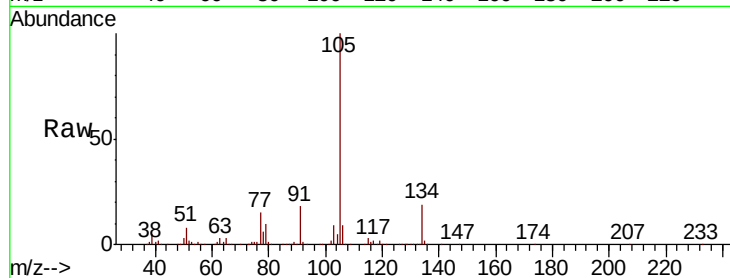
ClientSampled :

Tot Ion:105 Resp: 306974

Ion Ratio Lower Upper

105 100

134 18.8 9.1 27.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.39

250000

200000

150000

100000

50000

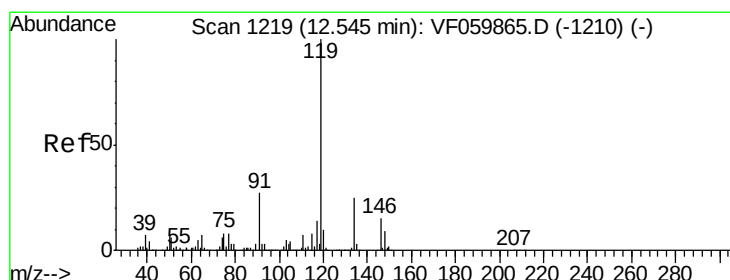
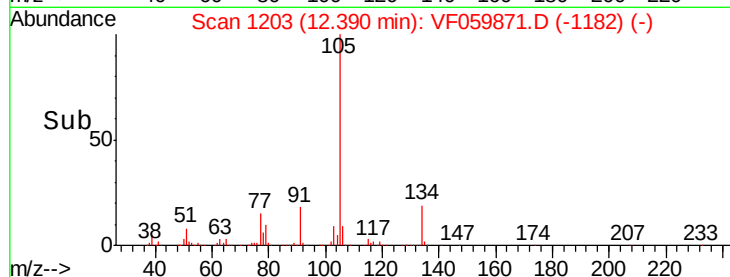
0

Time-->

12.30

12.40

12.50



#86

p-Isopropyltoluene

Concen: 20.852 ug/l

RT: 12.54 min Scan# 1218

Delta R.T. -0.01 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

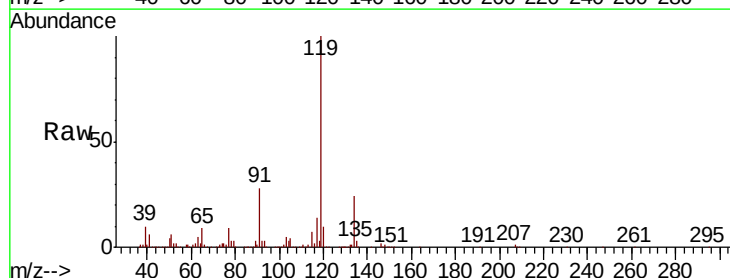
Tgt Ion:119 Resp: 258966

Ion Ratio Lower Upper

119 100

134 24.0 12.4 37.0

91 27.9 13.6 40.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

200000

150000

100000

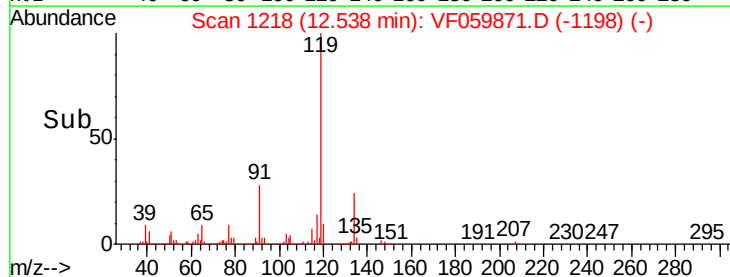
50000

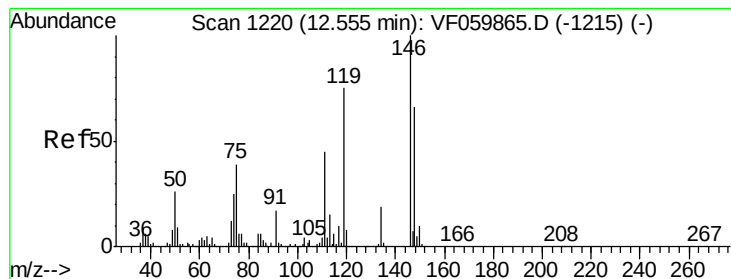
0

Time-->

12.50

12.60





#87

1,3-Dichlorobenzene

Concen: 20.551 ug/l

RT: 12.56 min Scan# 1220

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampled :

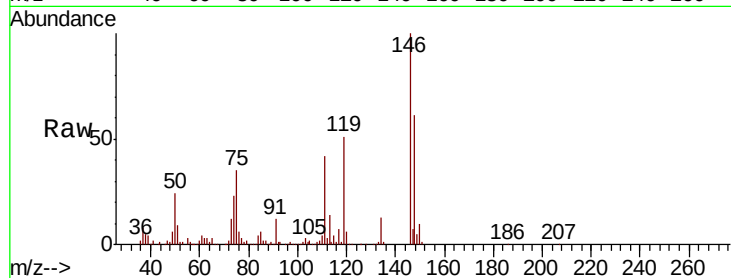
Tot Ion:146 Resp: 130280

Ion Ratio Lower Upper

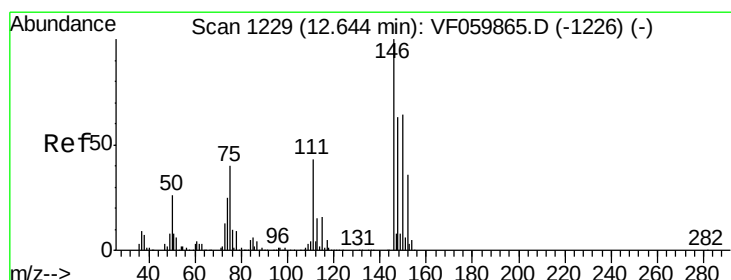
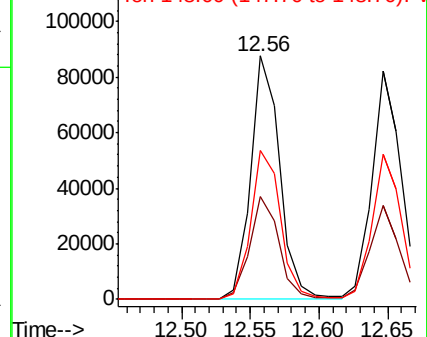
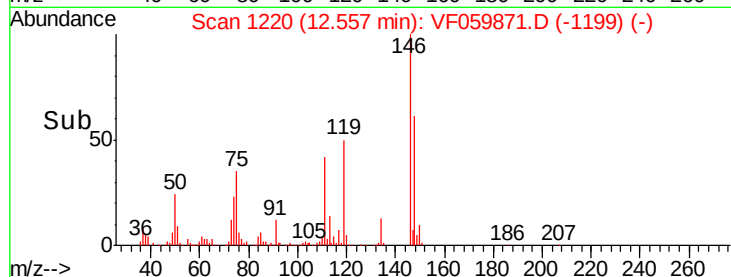
146 100

111 42.4 22.4 67.0

148 61.1 33.1 99.3



Abundance Ion 146.00 (145.70 to 146.70): V
120000
Ion 111.00 (110.70 to 111.70): V
100000
Ion 148.00 (147.70 to 148.70): V



#88

1,4-Dichlorobenzene

Concen: 19.946 ug/l

RT: 12.65 min Scan# 1229

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

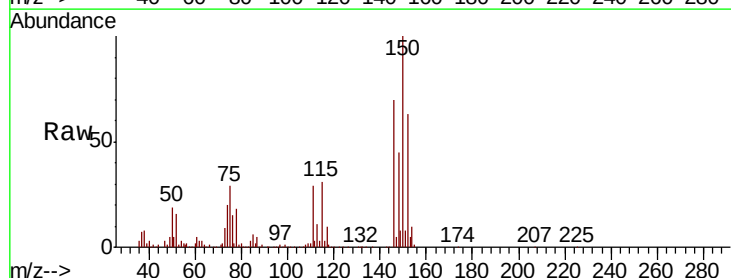
Tgt Ion:146 Resp: 124128

Ion Ratio Lower Upper

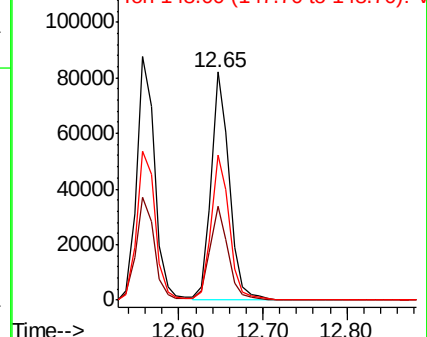
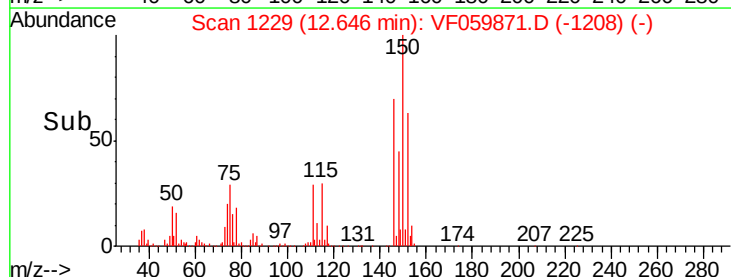
146 100

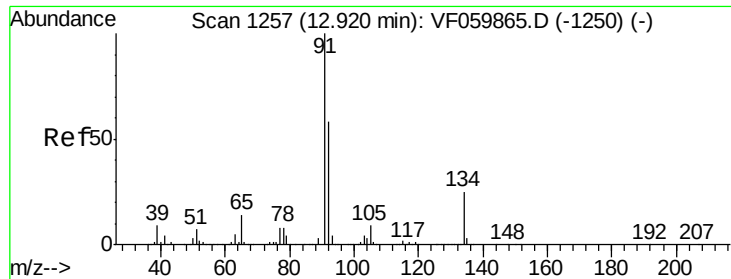
111 41.4 21.4 64.2

148 63.7 31.6 94.7



Abundance Ion 146.00 (145.70 to 146.70): V
120000
Ion 111.00 (110.70 to 111.70): V
100000
Ion 148.00 (147.70 to 148.70): V





#89

n-Butylbenzene

Concen: 20.897 ug/l

RT: 12.92 min Scan# 1257

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampled :

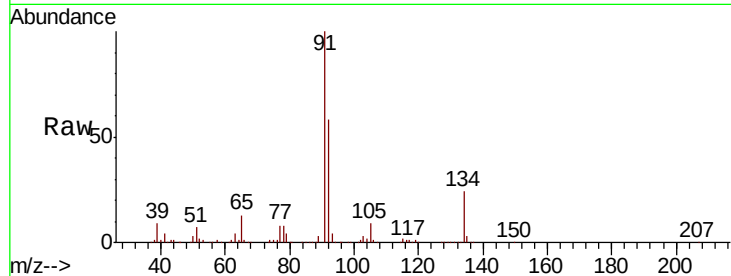
Tot Ion: 91 Resp: 247334

Ion Ratio Lower Upper

91 100

92 57.7 28.8 86.5

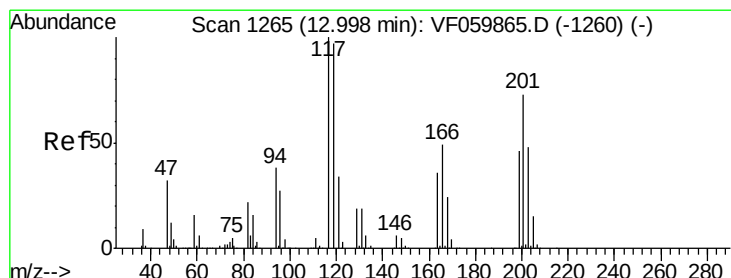
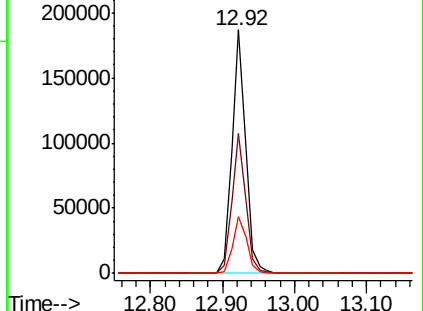
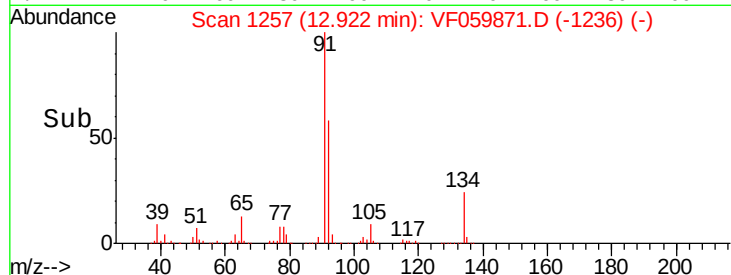
134 23.6 12.6 37.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 20.437 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VF059871.D

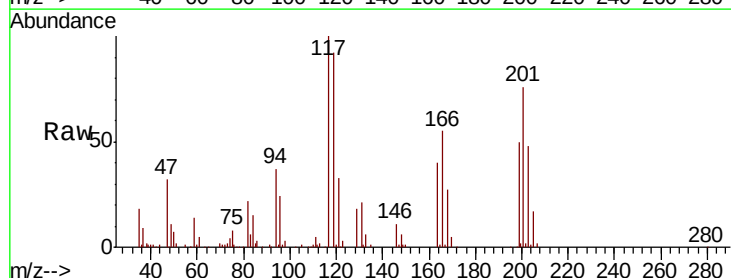
Acq: 4 Aug 2018 8:24

Tgt Ion: 117 Resp: 70039

Ion Ratio Lower Upper

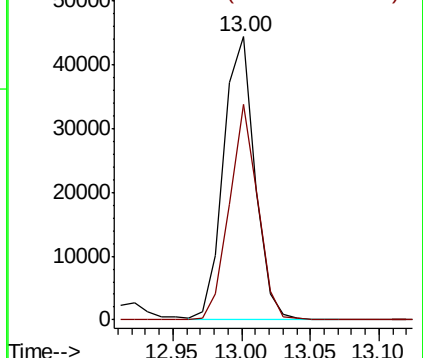
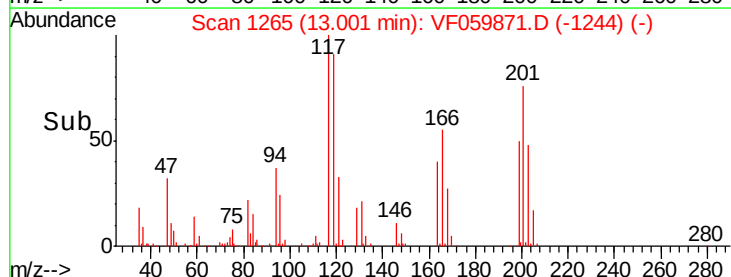
117 100

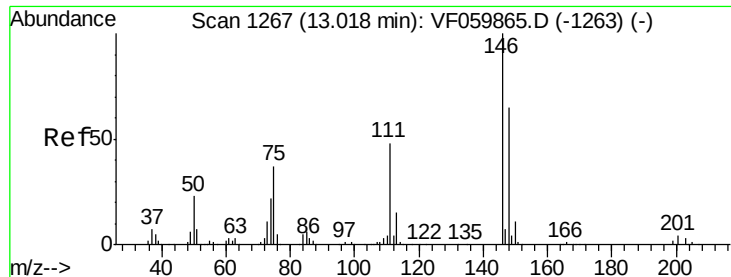
201 78.6 36.6 109.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 20.604 ug/l

RT: 13.02 min Scan# 1267

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

Instrument :

MSVOA_F

ClientSampled :

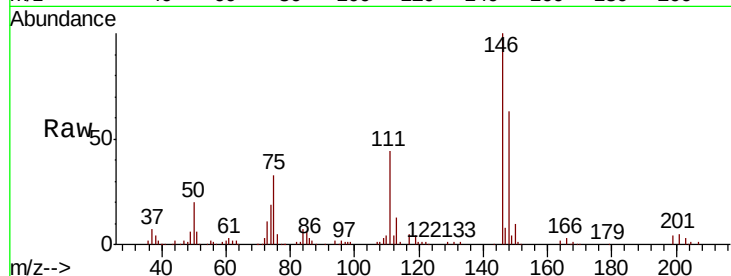
Tot Ion:146 Resp: 125694

Ion Ratio Lower Upper

146 100

111 44.1 24.1 72.2

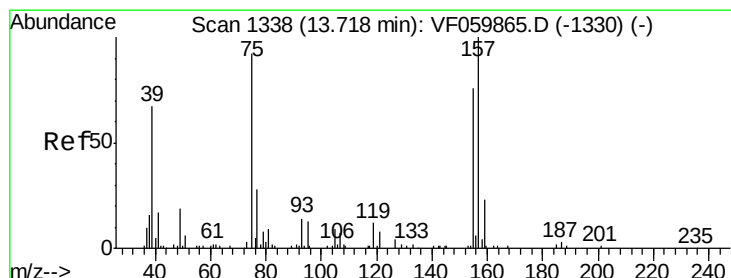
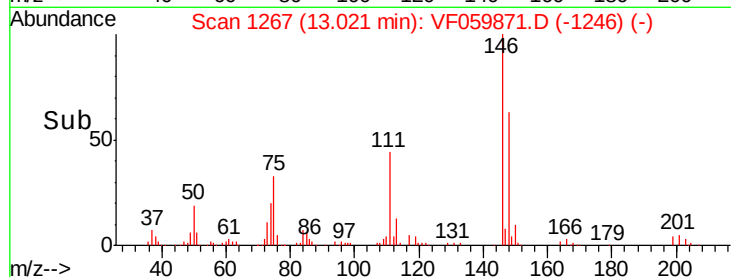
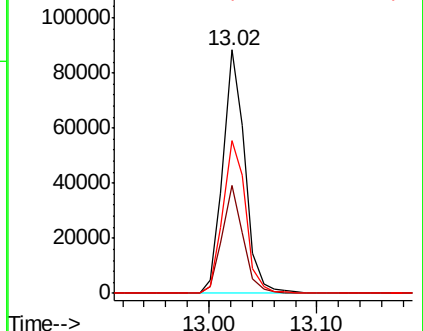
148 62.7 32.8 98.3



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.593 ug/l

RT: 13.72 min Scan# 1338

Delta R.T. 0.00 min

Lab File: VF059871.D

Acq: 4 Aug 2018 8:24

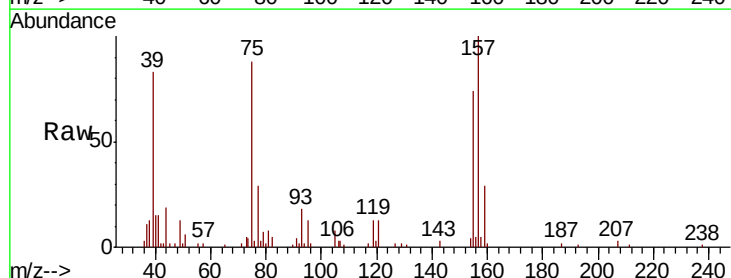
Tgt Ion: 75 Resp: 10827

Ion Ratio Lower Upper

75 100

155 84.9 41.2 123.6

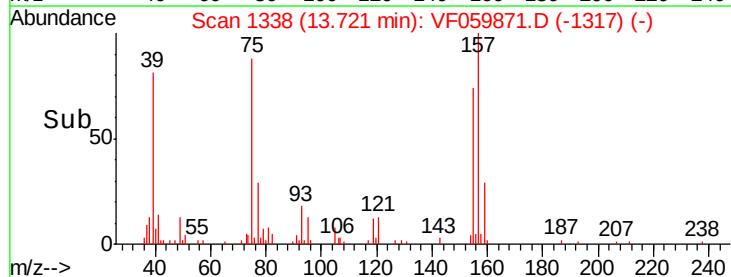
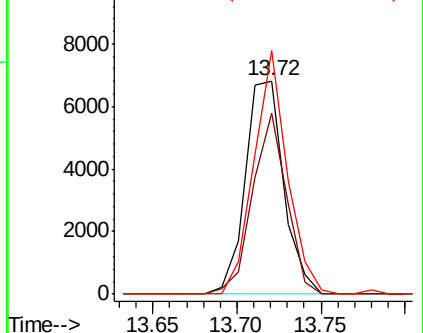
157 114.0 54.5 163.6

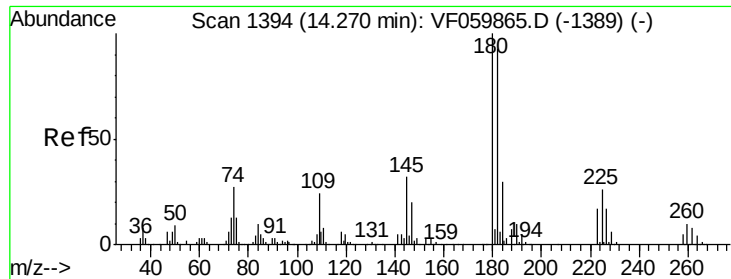


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

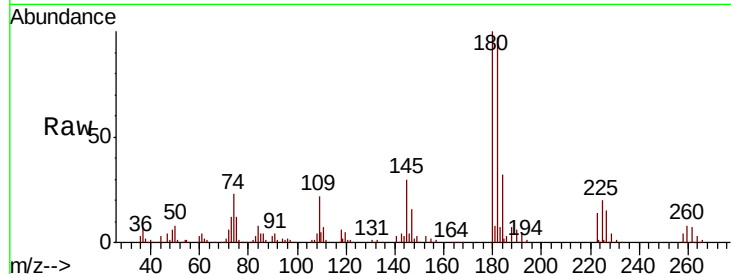




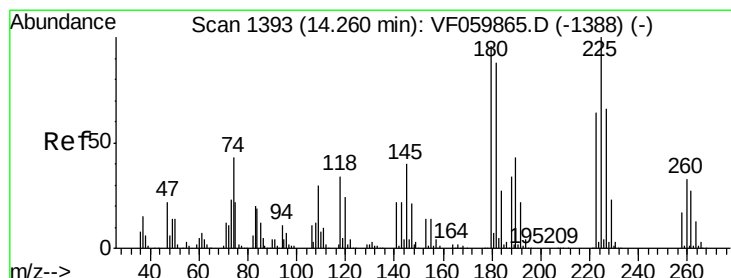
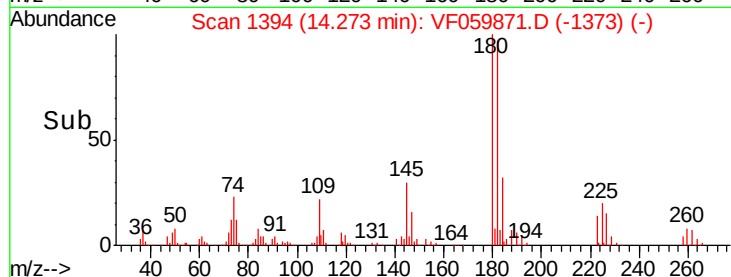
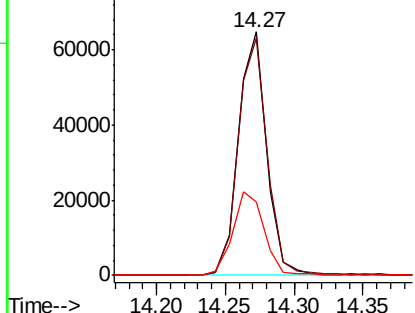
#93
 1,2,4-Trichlorobenzene
 Concen: 19.992 ug/l
 RT: 14.27 min Scan# 1394
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Instrument :
 MSVOA_F
 ClientSampled :

Tot Ion:180 Resp: 92599
 Ion Ratio Lower Upper
 180 100
 182 97.2 46.4 139.2
 145 30.0 15.9 47.7

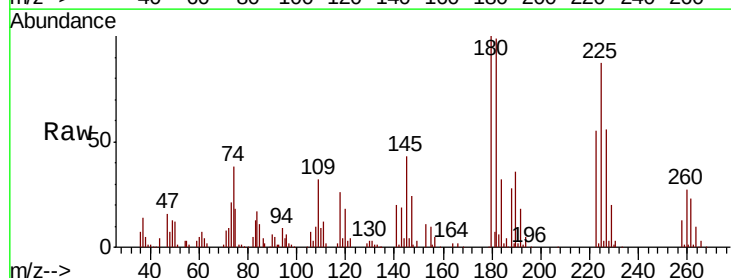


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

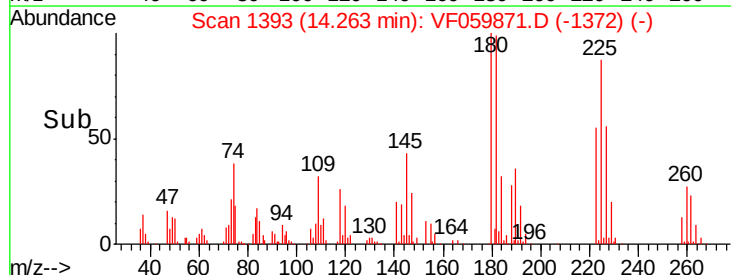
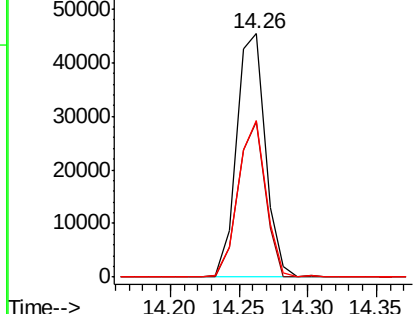


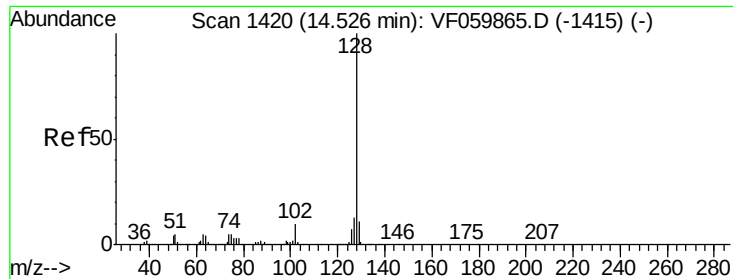
#94
 Hexachlorobutadiene
 Concen: 20.312 ug/l
 RT: 14.26 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VF059871.D
 Acq: 4 Aug 2018 8:24

Tgt Ion:225 Resp: 66460
 Ion Ratio Lower Upper
 225 100
 223 63.5 31.9 95.9
 227 64.5 32.8 98.4



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

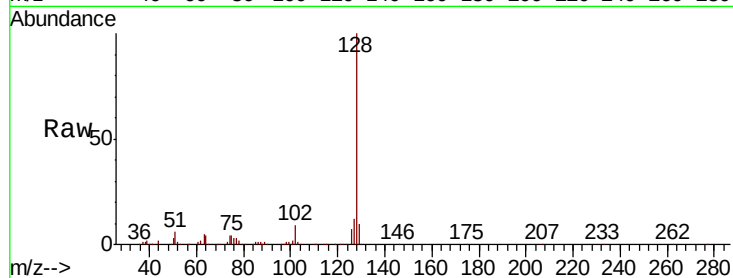




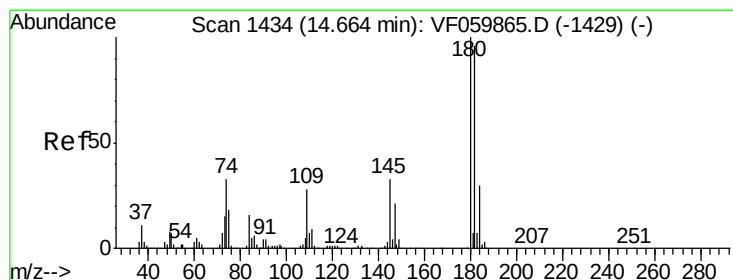
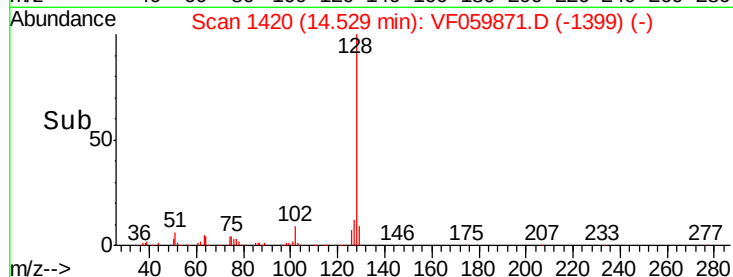
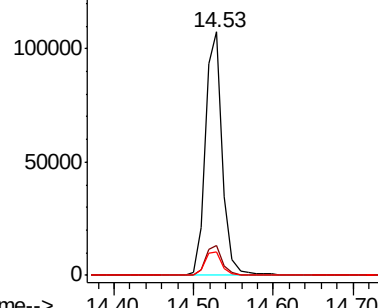
#95
Naphthalene
Concen: 20.050 ug/l
RT: 14.53 min Scan# 1420
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:128 Resp: 160780
Ion Ratio Lower Upper
128 100
127 12.2 10.4 15.6
129 9.5 9.0 13.6

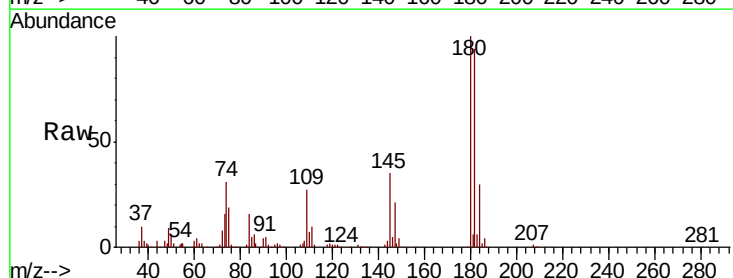


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 19.830 ug/l
RT: 14.67 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VF059871.D
Acq: 4 Aug 2018 8:24

Tgt Ion:180 Resp: 90702
Ion Ratio Lower Upper
180 100
182 93.6 48.1 144.3
145 34.9 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

