

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030819\
 Data File : VF061863.D
 Acq On : 8 Mar 2019 15:26
 Operator : VA/AP
 Sample : VF0308SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

Quant Time: Mar 09 00:44:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	317683	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.57	114	481121	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.75	117	422170	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	237025	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.81	65	125602	54.29	ug/l	-0.04
Spiked Amount			Recovery	=	108.58%	
35) Dibromofluoromethane	4.08	113	180238	53.68	ug/l	-0.04
Spiked Amount			Recovery	=	107.36%	
50) Toluene-d8	7.53	98	526064	52.71	ug/l	-0.04
Spiked Amount			Recovery	=	105.42%	
62) 4-Bromofluorobenzene	11.39	95	201694	51.59	ug/l	-0.03
Spiked Amount			Recovery	=	103.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	89658	22.988	ug/l	91
3) Chloromethane	1.10	50	87560	23.165	ug/l	99
4) Vinyl Chloride	1.14	62	80597	22.462	ug/l	92
5) Bromomethane	1.31	94	53313	21.801	ug/l	97
6) Chloroethane	1.38	64	38868	22.788	ug/l	94
7) Trichlorofluoromethane	1.47	101	100827	23.007	ug/l	97
8) Diethyl Ether	1.62	74	22606	22.684	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.83	101	69529	23.363	ug/l	93
10) Methyl Iodide	1.90	142	94144	16.623	ug/l	97
11) Tert butyl alcohol	2.55	59	12341	93.982	ug/l	98
12) 1,1-Dichloroethene	1.78	96	60267	22.182	ug/l	98
13) Acrolein	1.99	56	18086	108.698	ug/l	98
14) Allyl chloride	2.08	41	71788	23.984	ug/l	85
15) Acrylonitrile	2.92	53	42790	102.335	ug/l	96
16) Acetone	2.22	43	64074	132.217	ug/l	96
17) Carbon Disulfide	1.82	76	142164	16.810	ug/l	95
18) Methyl Acetate	2.34	43	22201	22.476	ug/l	93
19) Methyl tert-butyl Ether	2.42	73	98306	21.389	ug/l	95
20) Methylene Chloride	2.17	84	26736	5.215	ug/l	97
21) trans-1,2-Dichloroethene	2.30	96	62403	24.404	ug/l	94
22) Diisopropyl ether	2.78	45	175901	22.592	ug/l	96
23) Vinyl Acetate	3.17	43	360383	103.609	ug/l	98
24) 1,1-Dichloroethane	2.85	63	103506	22.241	ug/l	99
25) 2-Butanone	4.31	43	102736	104.221	ug/l	100
26) 2,2-Dichloropropane	3.57	77	46077	22.179	ug/l	95
27) cis-1,2-Dichloroethene	3.45	96	76299	21.537	ug/l	97
28) Bromochloromethane	3.69	49	42201	20.803	ug/l #	91
29) Tetrahydrofuran	4.05	42	40229	94.629	ug/l	99
30) Chloroform	3.84	83	115124	21.658	ug/l	99
31) Cyclohexane	3.67	56	63252	12.976	ug/l	98
32) 1,1,1-Trichloroethane	4.07	97	71625	21.860	ug/l	88
36) 1,1-Dichloropropene	4.26	75	91785	20.196	ug/l	95
37) Ethyl Acetate	4.08	43	34341	18.002	ug/l	86
38) Carbon Tetrachloride	3.97	117	71681	22.281	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.43	83	110289	20.546	ug/l	96
40) Benzene	4.61	78	248847	20.948	ug/l	99
41) Methacrylonitrile	4.73	41	19966	19.104	ug/l #	85
42) 1,2-Dichloroethane	4.91	62	59934	20.245	ug/l	95
43) Isopropyl Acetate	6.93	43	46722	19.870	ug/l #	97
44) Trichloroethene	5.47	130	77181	20.906	ug/l	96
45) 1,2-Dichloropropane	6.20	63	56973	20.169	ug/l	99
46) Dibromomethane	6.06	93	32648	18.364	ug/l	96
47) Bromodichloromethane	6.36	83	81644	20.787	ug/l	97
48) Methyl methacrylate	6.69	41	26410	17.747	ug/l	98
49) 1,4-Dioxane	6.69	88	4339	318.954	ug/l #	66
51) 4-Methyl-2-Pentanone	8.24	43	156702	96.424	ug/l	99
52) Toluene	7.60	92	141864	20.187	ug/l	96
53) t-1,3-Dichloropropene	8.26	75	64386	19.859	ug/l	98
54) cis-1,3-Dichloropropene	7.28	75	92882	20.770	ug/l	98
55) 1,1,2-Trichloroethane	8.46	97	40234	19.870	ug/l	94
56) Ethyl methacrylate	8.60	69	47139	20.657	ug/l	93
57) 1,3-Dichloropropane	8.83	76	67998	20.535	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.27	63	41003	113.587	ug/l #	88
59) 2-Hexanone	9.47	43	123200	105.084	ug/l	99
60) Dibromochloromethane	8.69	129	57418	19.896	ug/l	97
61) 1,2-Dibromoethane	8.97	107	44239	19.868	ug/l	97
64) Tetrachloroethene	8.13	164	64239	19.803	ug/l	94
65) Chlorobenzene	9.77	112	154732	19.077	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.90	131	63236	20.123	ug/l	100
67) Ethyl Benzene	9.87	91	289841	21.560	ug/l	98
68) m/p-Xylenes	10.11	106	219943	42.708	ug/l	100
69) o-Xylene	10.69	106	113325	20.435	ug/l	96
70) Styrene	10.77	104	154759	19.830	ug/l	98
71) Bromoform	10.75	173	32469	19.550	ug/l	95
73) Isopropylbenzene	11.11	105	325164	19.927	ug/l	100
74) N-amyl acetate	11.35	43	69963	18.624	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.68	83	49968	18.424	ug/l	91
76) 1,2,3-Trichloropropane	11.78	75	34301	18.531	ug/l	90
77) Bromobenzene	11.48	156	75929	19.334	ug/l	87
78) n-propylbenzene	11.58	91	366637	19.896	ug/l	99
79) 2-Chlorotoluene	11.70	91	206525	19.603	ug/l	97
80) 1,3,5-Trimethylbenzene	11.81	105	262761	20.056	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.85	75	22971	27.139	ug/l	94
82) 4-Chlorotoluene	11.88	91	223814	20.770	ug/l	94
83) tert-Butylbenzene	12.11	119	281614	20.243	ug/l	91
84) 1,2,4-Trimethylbenzene	12.19	105	264385	20.586	ug/l	95
85) sec-Butylbenzene	12.29	105	379564	20.966	ug/l	97
86) p-Isopropyltoluene	12.45	119	320664	20.838	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	155794	20.892	ug/l	98
88) 1,4-Dichlorobenzene	12.55	146	148377	20.627	ug/l	97
89) n-Butylbenzene	12.83	91	300735	20.449	ug/l	95
90) Hexachloroethane	12.90	117	72260	19.509	ug/l	90
91) 1,2-Dichlorobenzene	12.93	146	142482	20.167	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	7968	19.412	ug/l	88

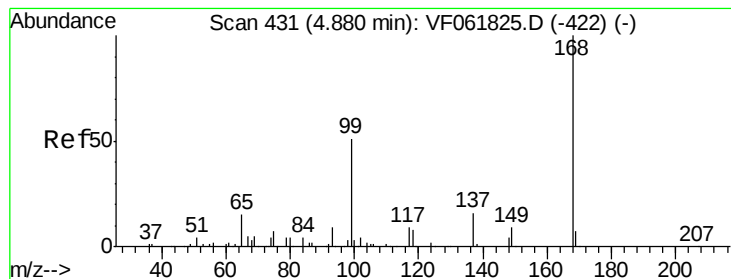
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.18	180	102563	20.707	ug/l	94
94) Hexachlorobutadiene	14.17	225	64795	18.897	ug/l	97
95) Naphthalene	14.44	128	164786	18.679	ug/l	99
96) 1,2,3-Trichlorobenzene	14.59	180	89677	19.609	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

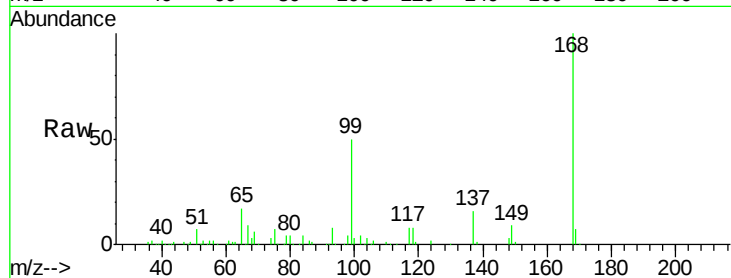
VF0308SBS01

Tot Ion:168 Resp: 317683

Ion Ratio Lower Upper

168 100

99 50.1 40.8 61.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.84

100000

80000

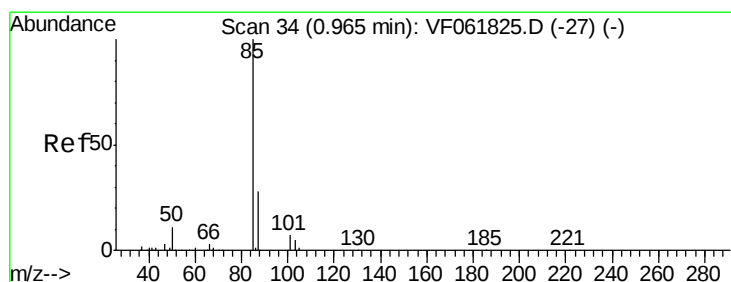
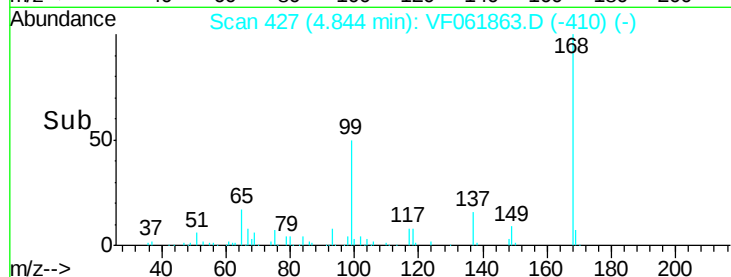
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 22.988 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.01 min

Lab File: VF061863.D

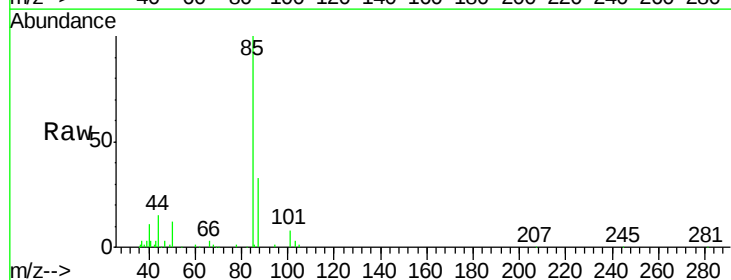
Acq: 8 Mar 2019 15:26

Tgt Ion: 85 Resp: 89658

Ion Ratio Lower Upper

85 100

87 32.9 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

30000

25000

20000

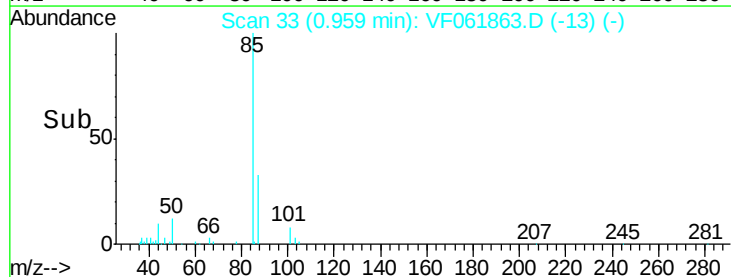
15000

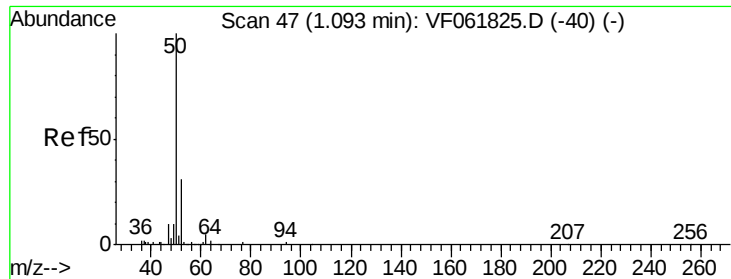
10000

5000

0

Time-->





#3

Chloromethane

Concen: 23.165 ug/l

RT: 1.10 min Scan# 47

Delta R.T. 0.00 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

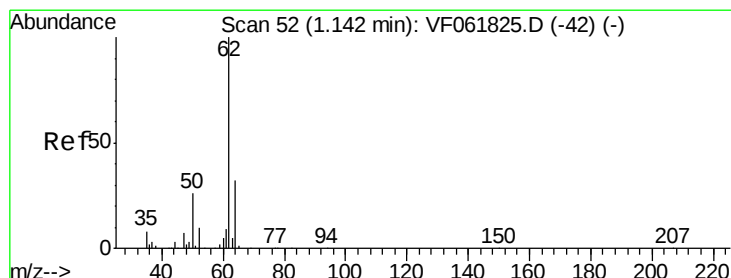
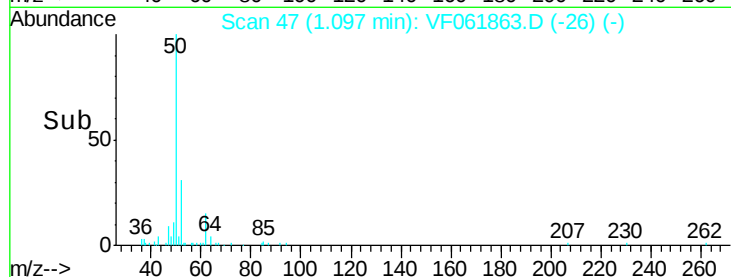
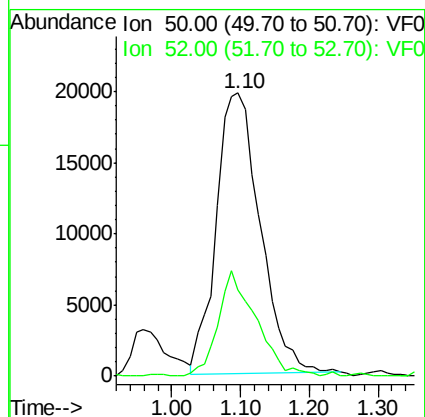
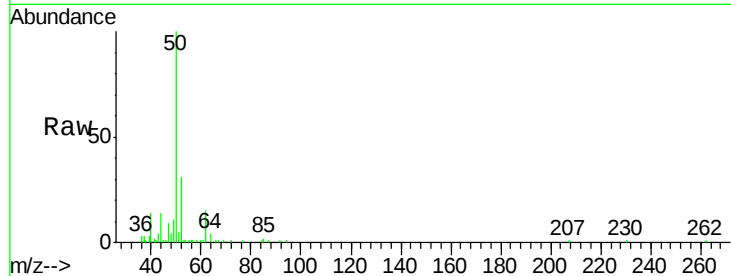
VF0308SBS01

Tot Ion: 50 Resp: 87560

Ion Ratio Lower Upper

50 100

52 30.6 23.8 35.8



#4

Vinyl Chloride

Concen: 22.462 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.01 min

Lab File: VF061863.D

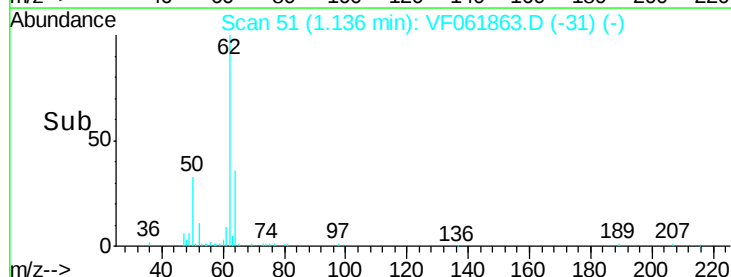
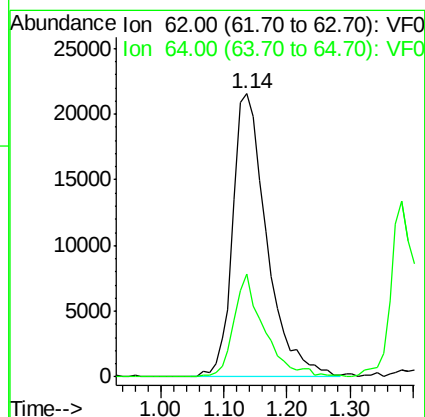
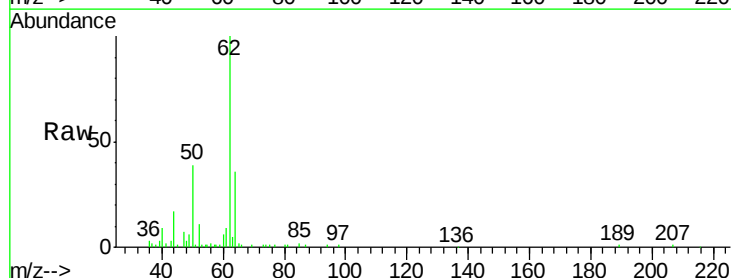
Acq: 8 Mar 2019 15:26

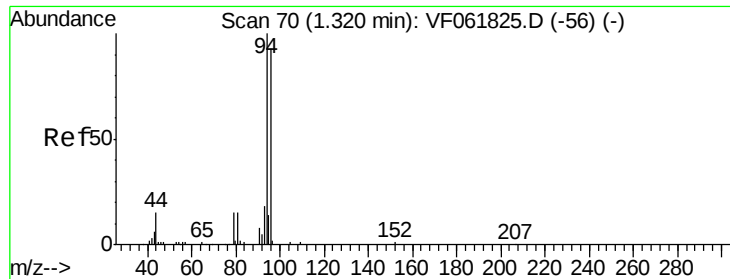
Tgt Ion: 62 Resp: 80597

Ion Ratio Lower Upper

62 100

64 36.1 25.2 37.8





#5

Bromomethane

Concen: 21.801 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

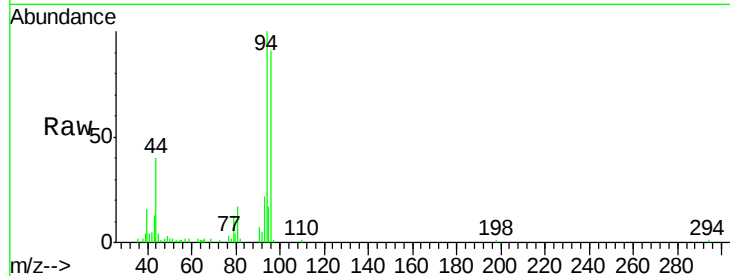
VF0308SBS01

Tot Ion: 94 Resp: 53313

Ion Ratio Lower Upper

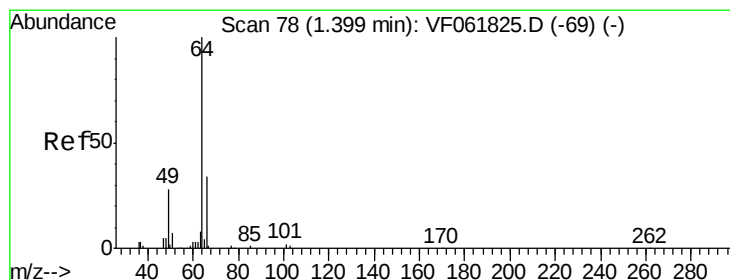
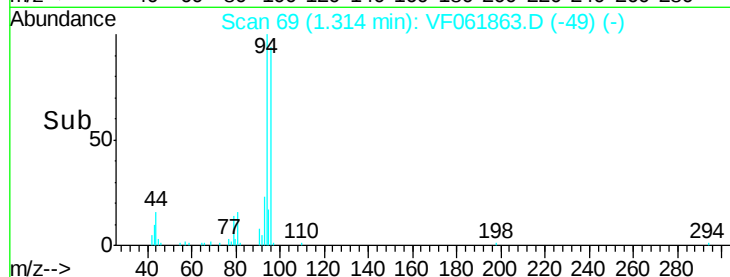
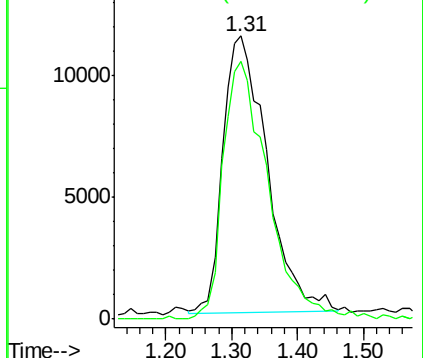
94 100

96 91.3 75.2 112.8



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 22.788 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.02 min

Lab File: VF061863.D

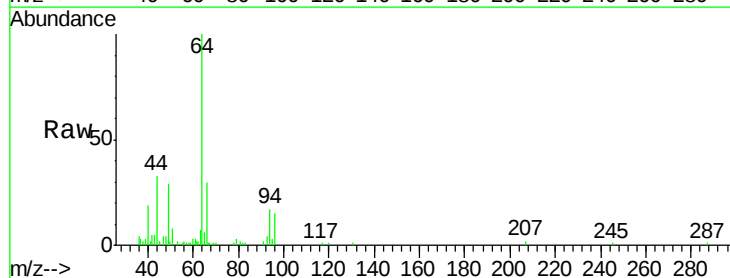
Acq: 8 Mar 2019 15:26

Tgt Ion: 64 Resp: 38868

Ion Ratio Lower Upper

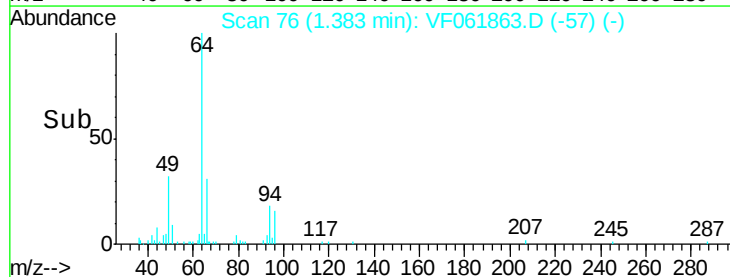
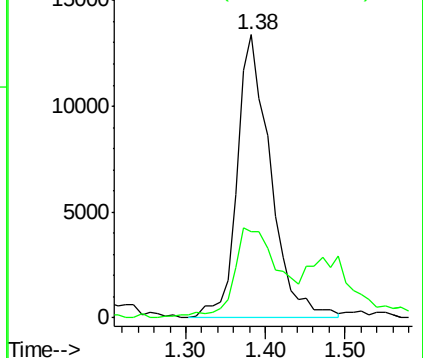
64 100

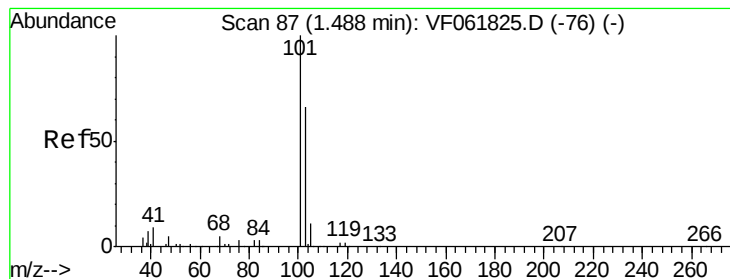
66 30.4 27.0 40.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 23.007 ug/l

RT: 1.47 min Scan# 85

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

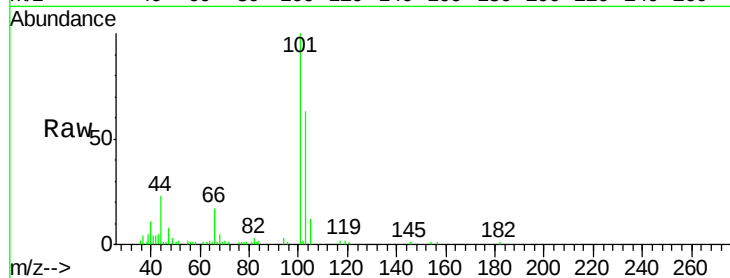
VF0308SBS01

Tot Ion:101 Resp: 100827

Ion Ratio Lower Upper

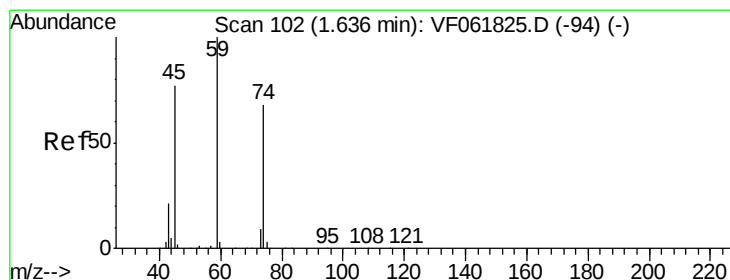
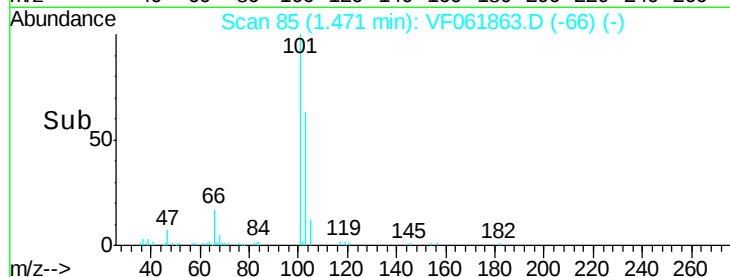
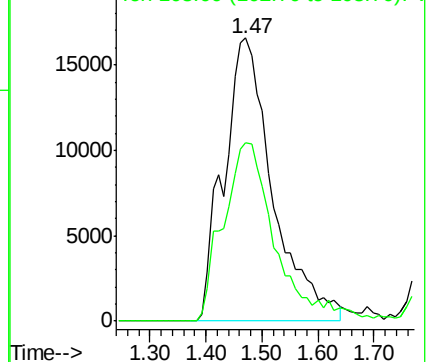
101 100

103 63.2 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 22.684 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.02 min

Lab File: VF061863.D

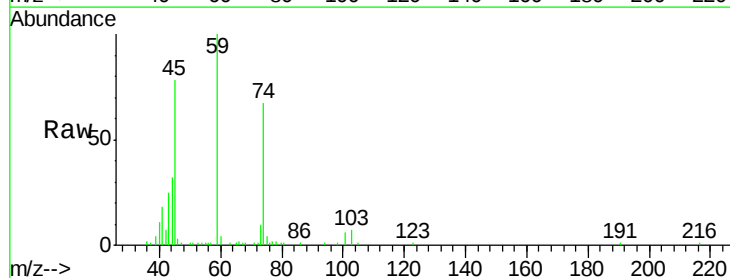
Acq: 8 Mar 2019 15:26

Tgt Ion: 74 Resp: 22606

Ion Ratio Lower Upper

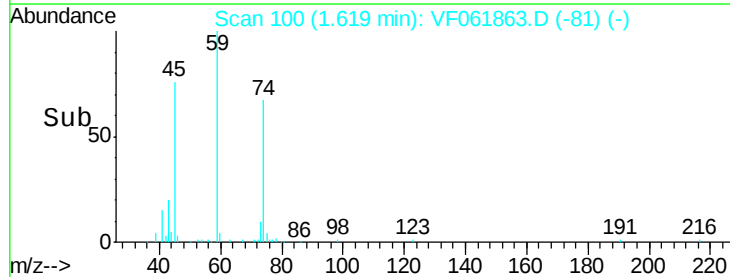
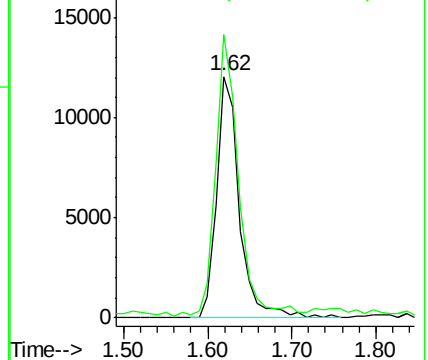
74 100

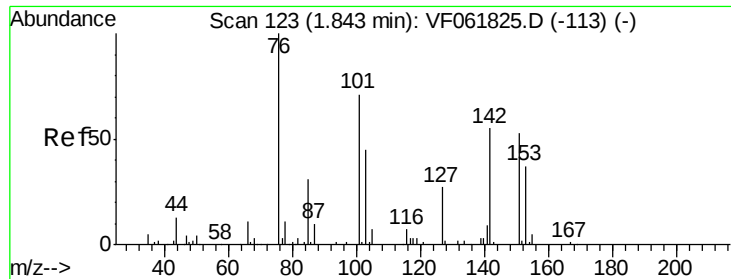
45 117.4 57.2 171.6



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.363 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

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MSVOA_F

ClientSampleId :

VF0308SBS01

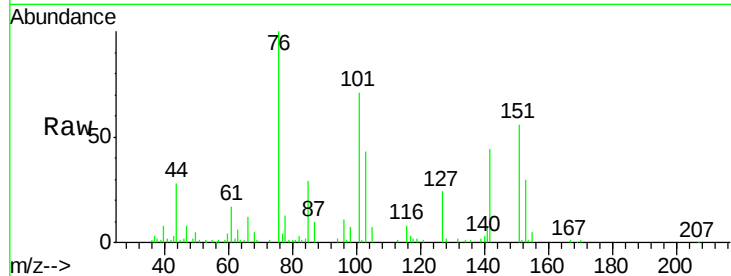
Tot Ion:101 Resp: 69529

Ion Ratio Lower Upper

101 100

85 41.0 34.0 51.0

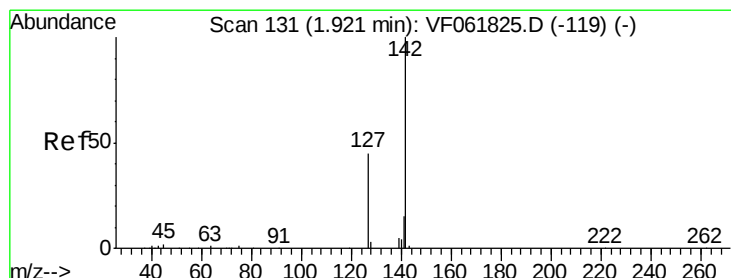
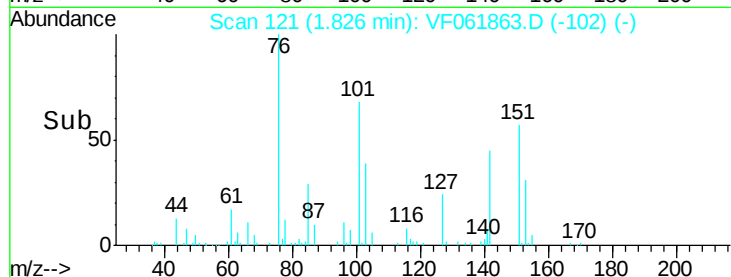
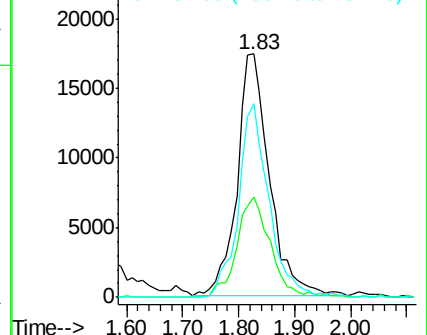
151 79.6 57.3 85.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 16.623 ug/l

RT: 1.90 min Scan# 128

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

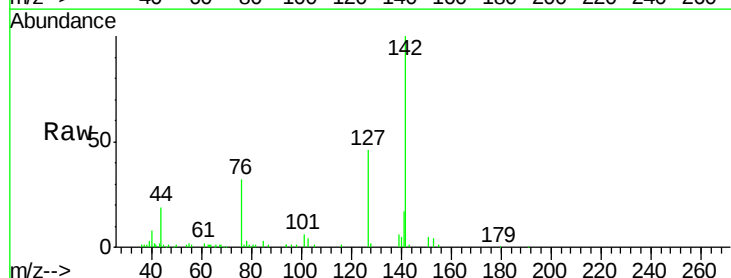
Tgt Ion:142 Resp: 94144

Ion Ratio Lower Upper

142 100

127 45.9 35.8 53.6

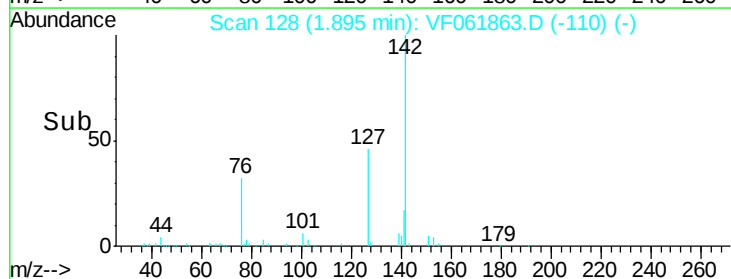
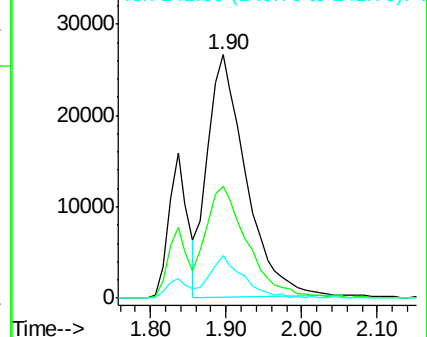
141 17.3 11.7 17.5

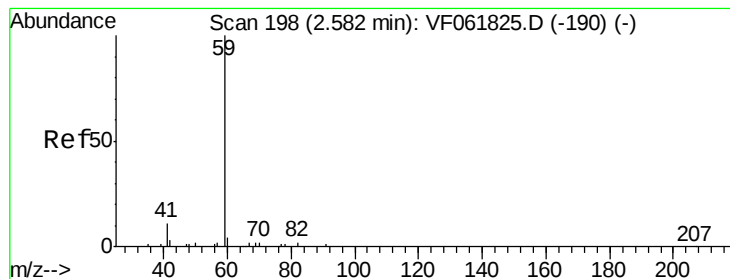


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



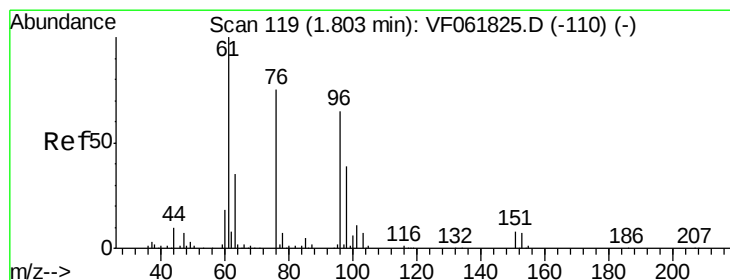
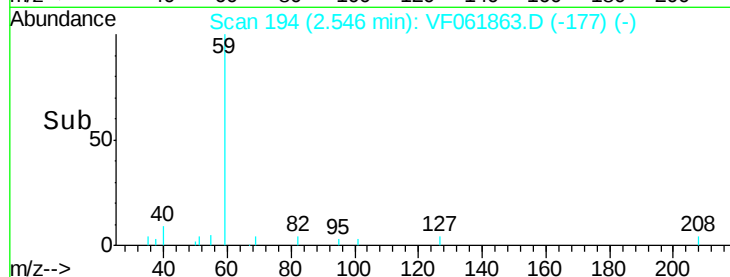
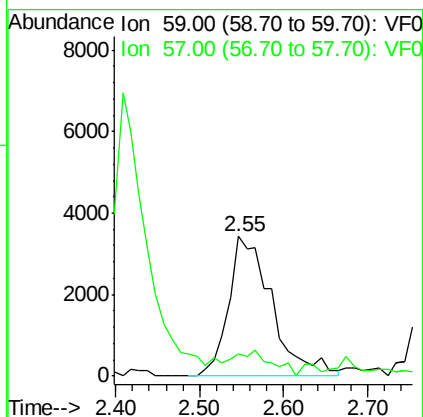
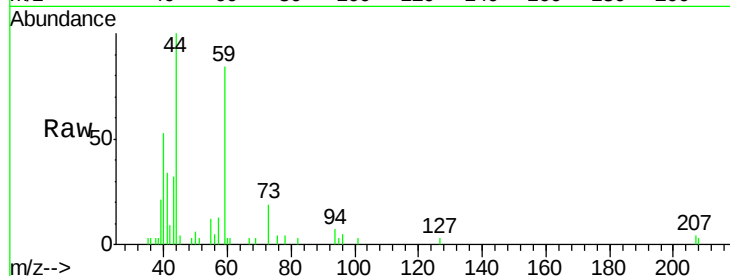


#11

Tert butyl alcohol
Concen: 93.982 ug/l
RT: 2.55 min Scan# 194
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

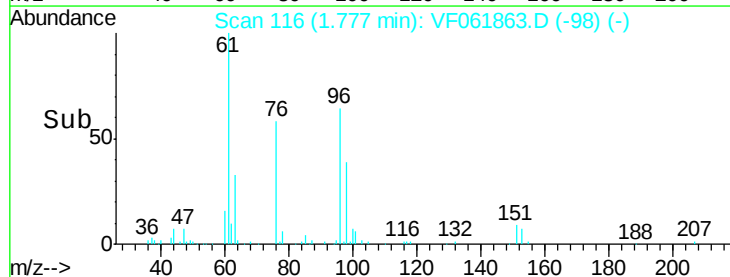
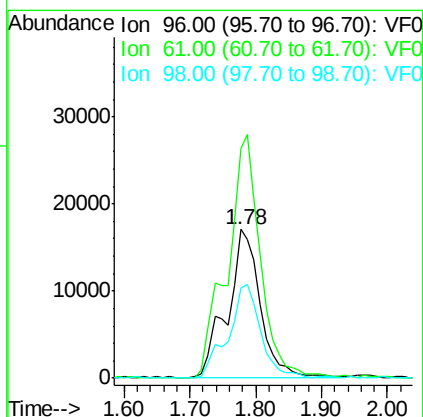
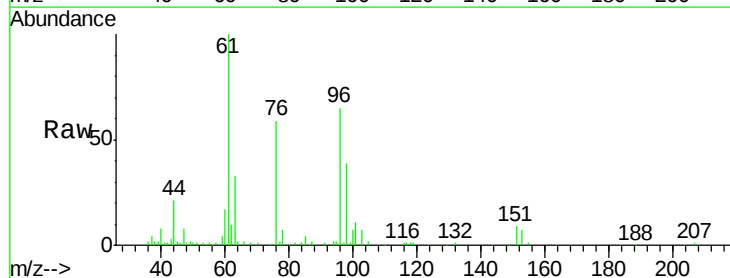
Tot Ion: 59 Resp: 12341
Ion Ratio Lower Upper
59 100
57 15.5 11.8 17.6

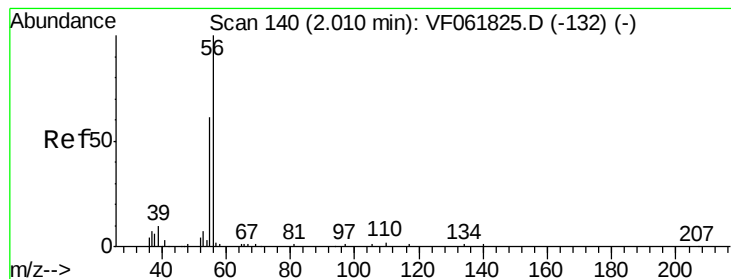


#12

1,1-Dichloroethene
Concen: 22.182 ug/l
RT: 1.78 min Scan# 116
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion: 96 Resp: 60267
Ion Ratio Lower Upper
96 100
61 154.7 122.5 183.7
98 61.0 47.1 70.7





#13

Acrolein

Concen: 108.698 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

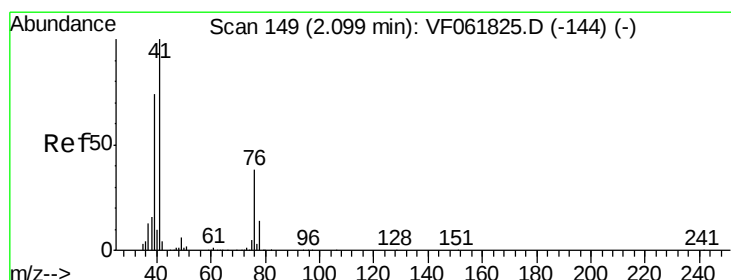
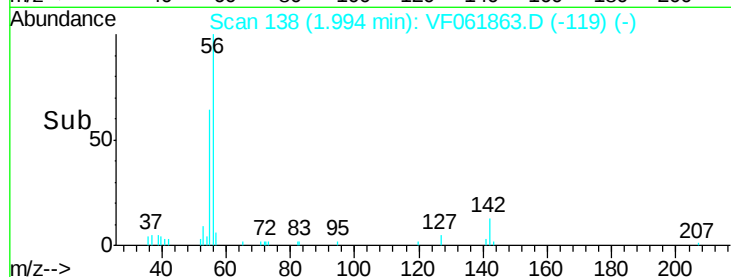
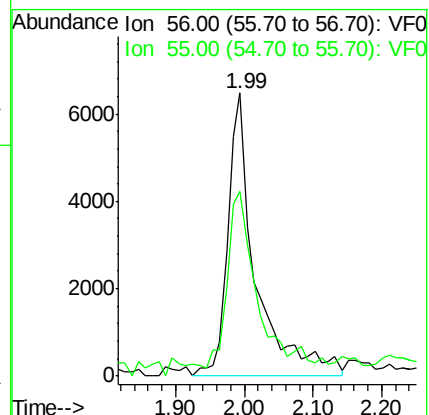
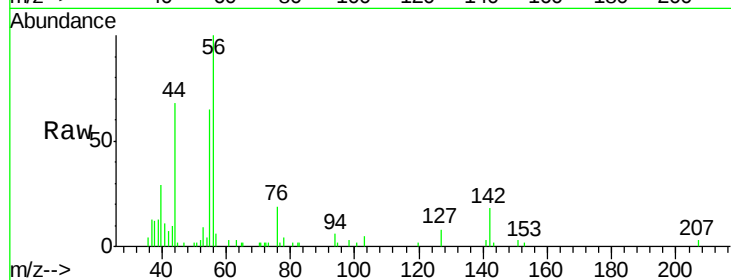
VF0308SBS01

Tot Ion: 56 Resp: 18086

Ion Ratio Lower Upper

56 100

55 65.3 51.3 76.9



#14

Allyl chloride

Concen: 23.984 ug/l

RT: 2.08 min Scan# 147

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

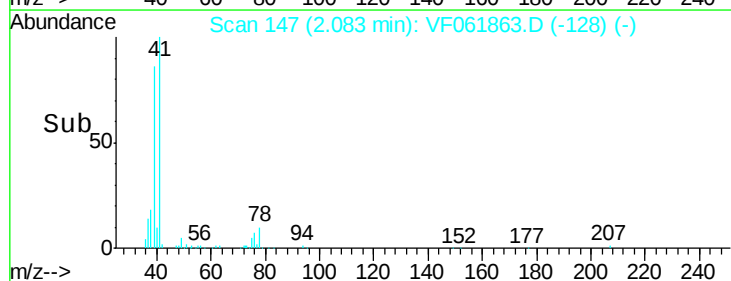
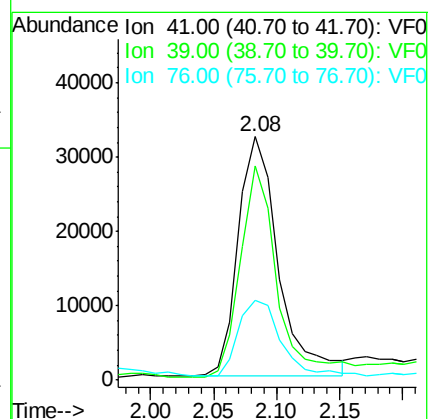
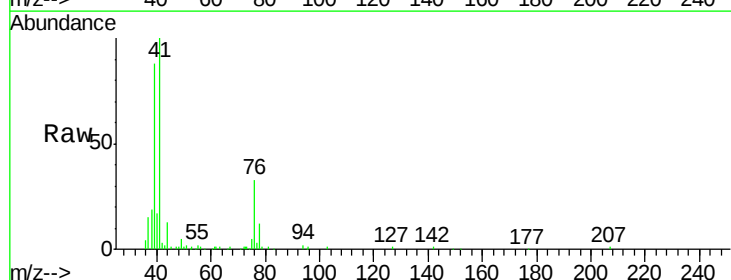
Tgt Ion: 41 Resp: 71788

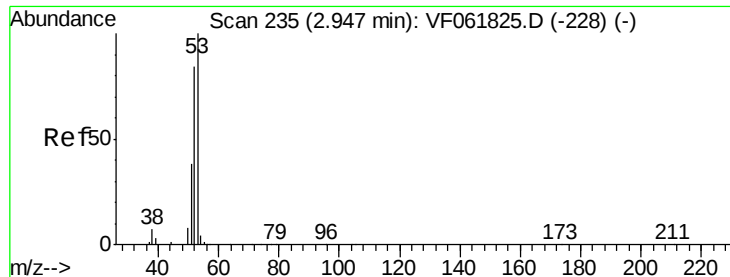
Ion Ratio Lower Upper

41 100

39 88.0 59.6 89.4

76 32.8 32.3 48.5





#15

Acrylonitrile

Concen: 102.335 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

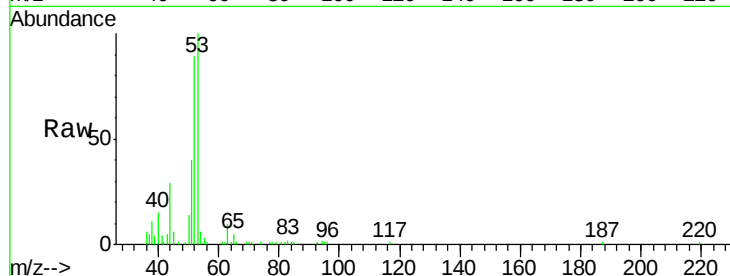
Tot Ion: 53 Resp: 42790

Ion Ratio Lower Upper

53 100

52 88.6 67.4 101.0

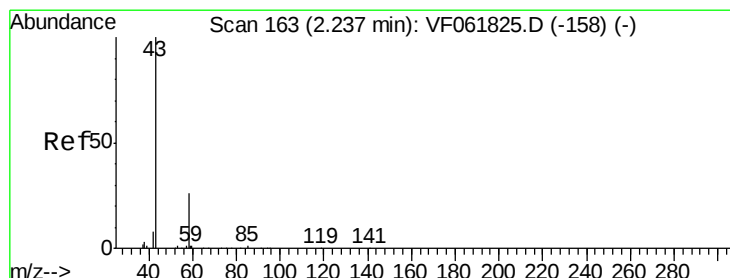
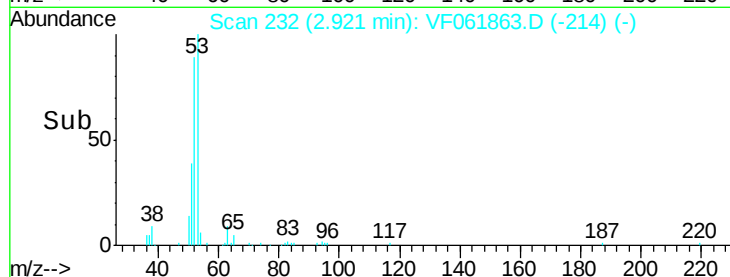
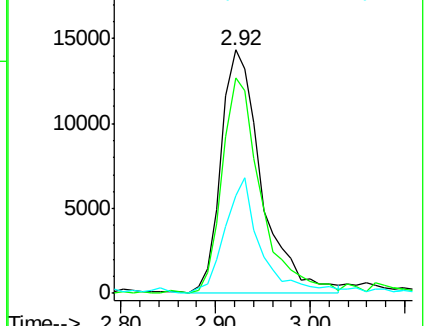
51 39.9 30.7 46.1



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: 132.217 ug/l

RT: 2.22 min Scan# 161

Delta R.T. -0.02 min

Lab File: VF061863.D

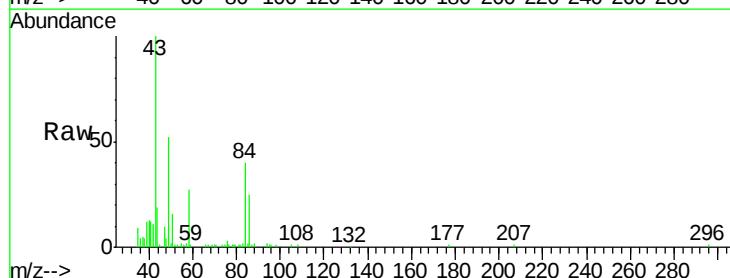
Acq: 8 Mar 2019 15:26

Tgt Ion: 43 Resp: 64074

Ion Ratio Lower Upper

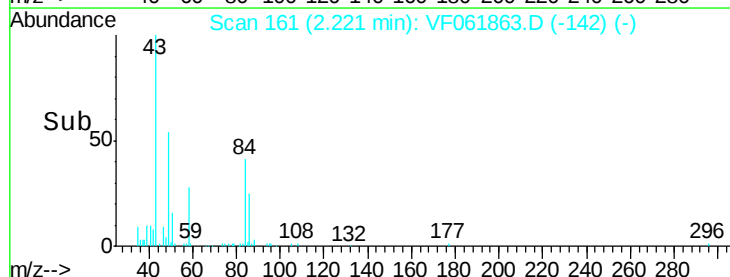
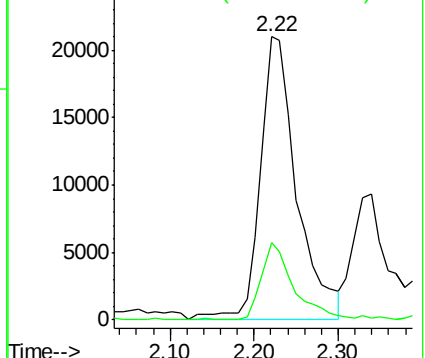
43 100

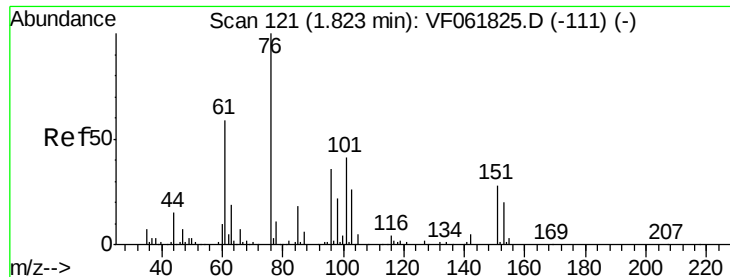
58 27.4 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

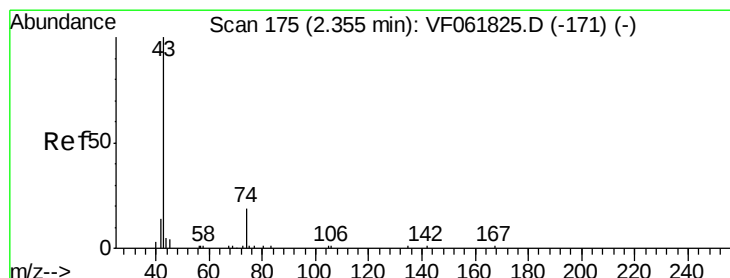
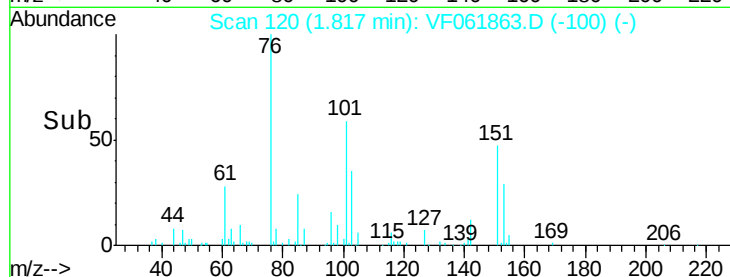
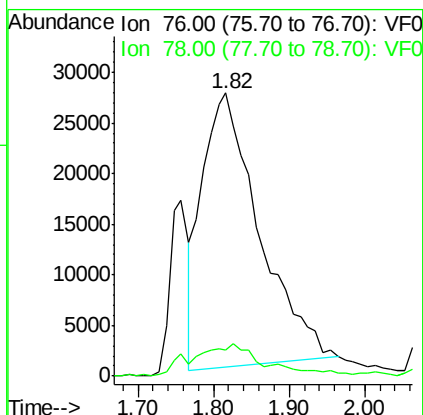
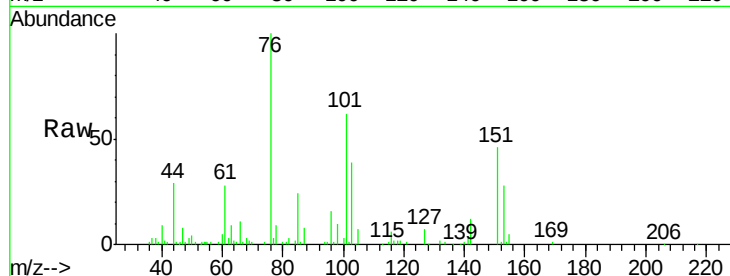




#17
Carbon Disulfide
Concen: 16.810 ug/l
RT: 1.82 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

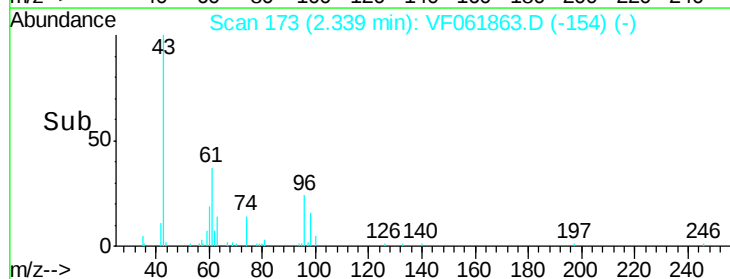
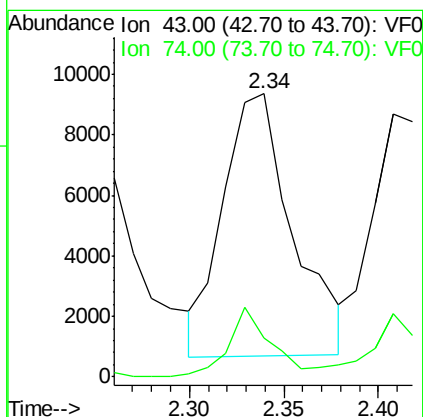
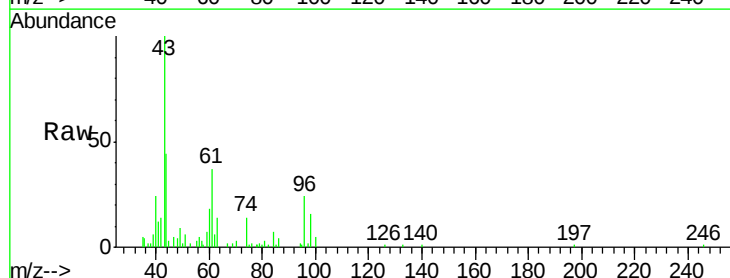
Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

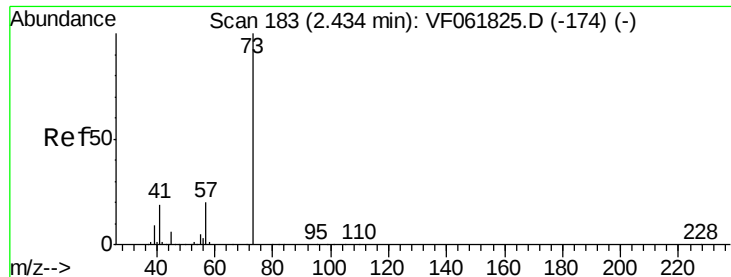
Tot Ion: 76 Resp: 142164
Ion Ratio Lower Upper
76 100
78 9.3 9.1 13.7



#18
Methyl Acetate
Concen: 22.476 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion: 43 Resp: 22201
Ion Ratio Lower Upper
43 100
74 13.7 13.2 19.8



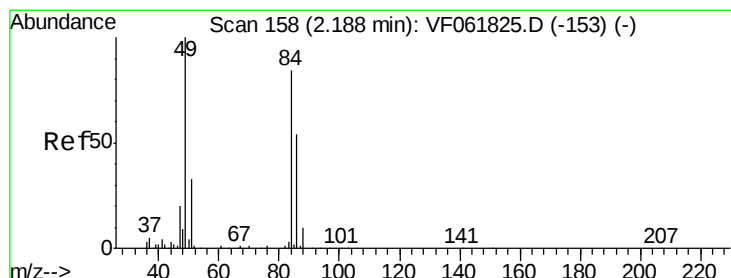
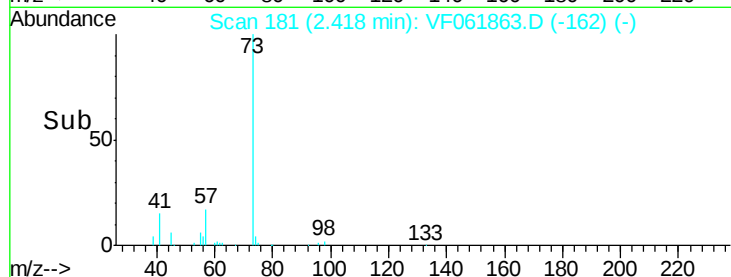
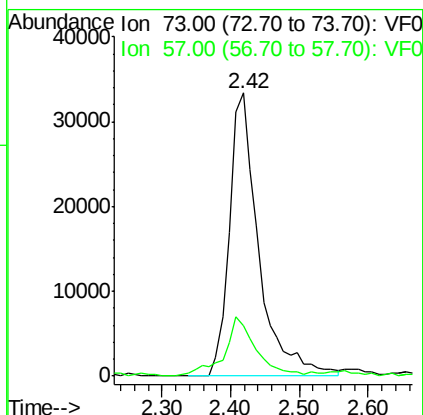
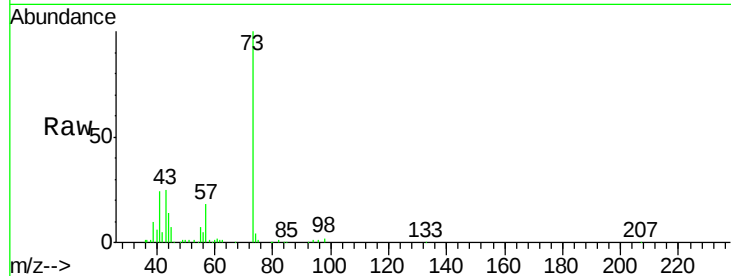


#19

Methyl tert-butyl Ether
 Concen: 21.389 ug/l
 RT: 2.42 min Scan# 181
 Delta R.T. -0.02 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

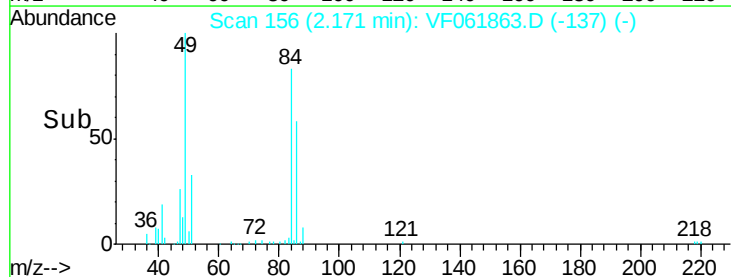
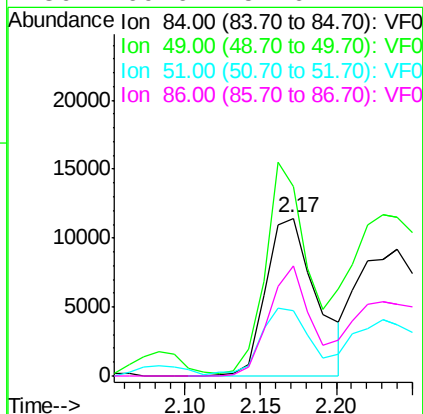
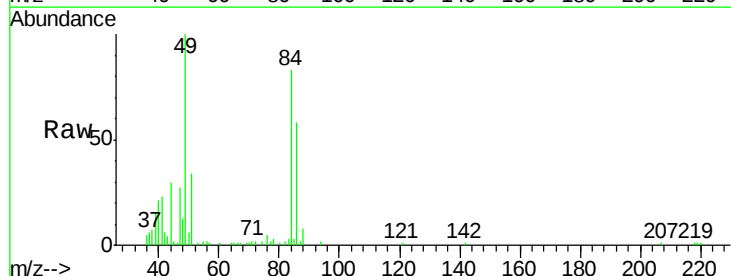
Tot Ion: 73 Resp: 98306
 Ion Ratio Lower Upper
 73 100
 57 17.9 16.1 24.1

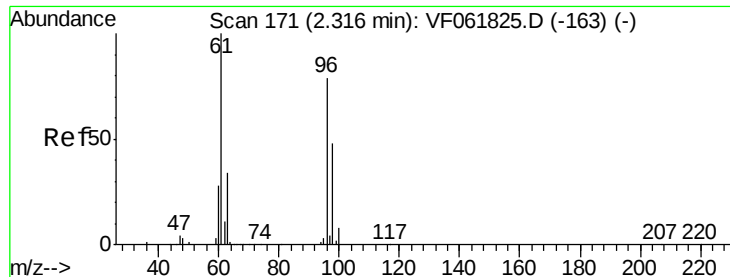


#20

Methylene Chloride
 Concen: 5.215 ug/l
 RT: 2.17 min Scan# 156
 Delta R.T. -0.02 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Tgt Ion: 84 Resp: 26736
 Ion Ratio Lower Upper
 84 100
 49 119.9 96.8 145.2
 51 41.1 31.8 47.6
 86 69.6 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 24.404 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

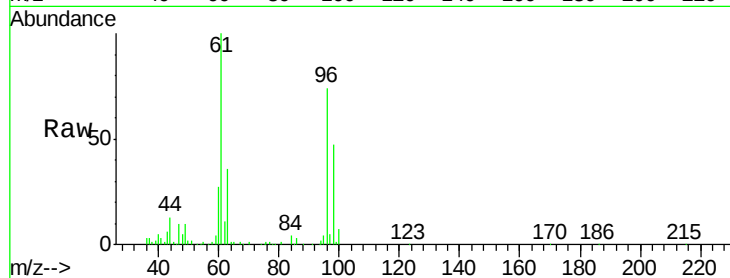
Tot Ion: 96 Resp: 62403

Ion Ratio Lower Upper

96 100

61 134.8 101.0 151.6

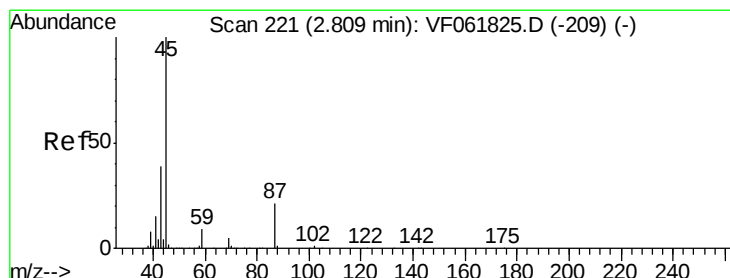
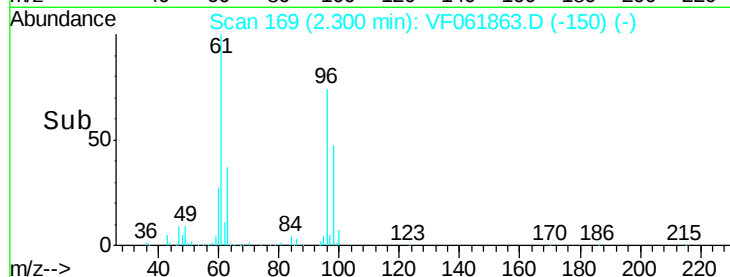
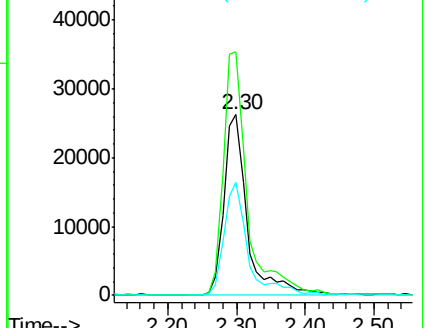
98 62.8 48.8 73.2



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 22.592 ug/l

RT: 2.78 min Scan# 218

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion: 45 Resp: 175901

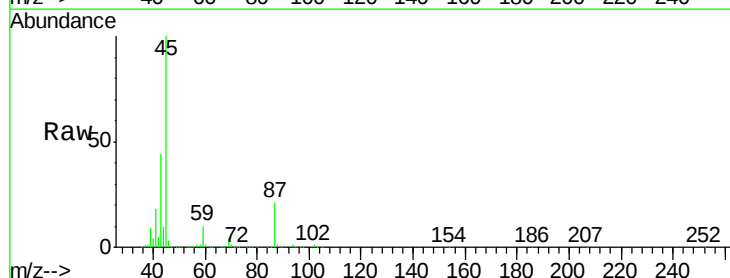
Ion Ratio Lower Upper

45 100

43 44.1 31.8 47.8

87 21.3 17.1 25.7

59 9.7 7.8 11.6

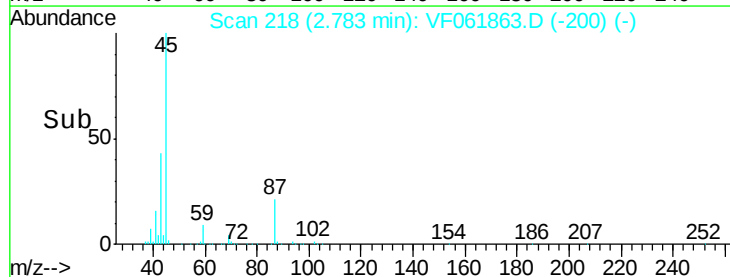
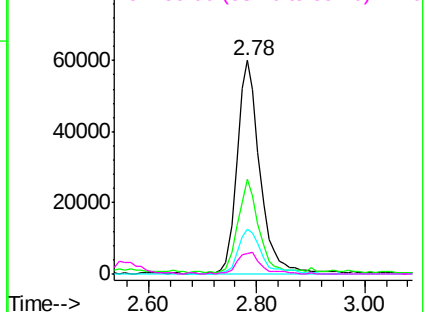


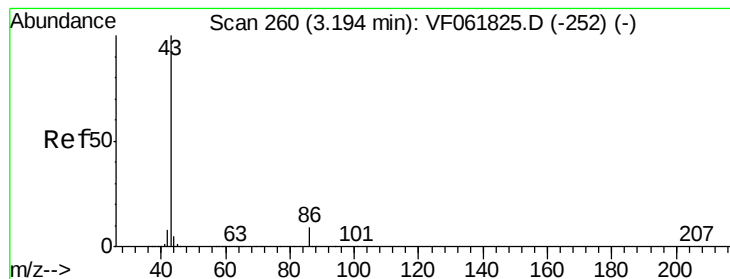
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 103.609 ug/l

RT: 3.17 min Scan# 257

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

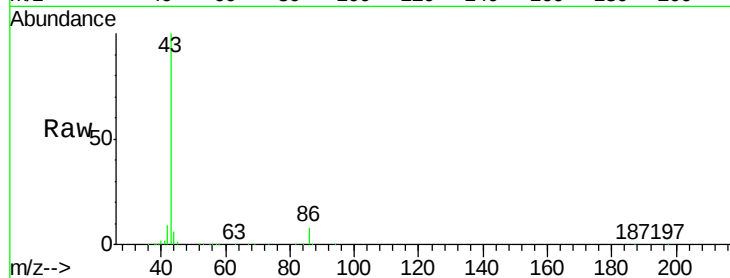
VF0308SBS01

Tot Ion: 43 Resp: 360383

Ion Ratio Lower Upper

43 100

86 8.0 7.0 10.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.17

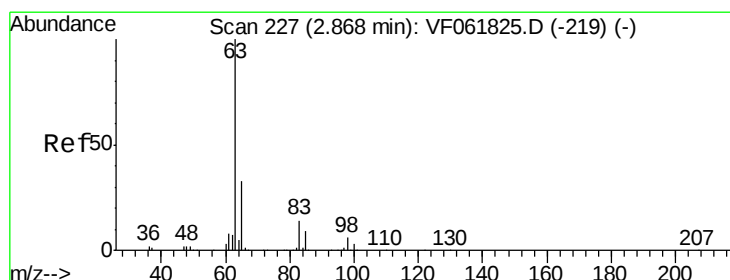
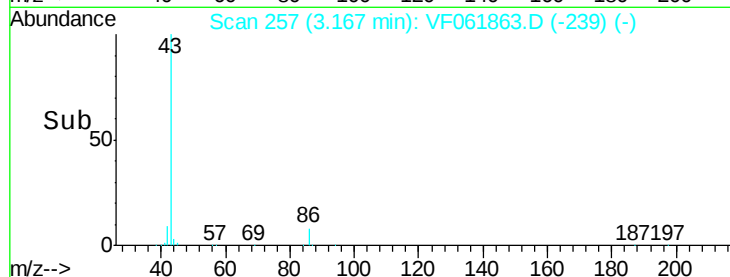
150000

100000

50000

0

Time--> 3.00 3.10 3.20 3.30



#24

1,1-Dichloroethane

Concen: 22.241 ug/l

RT: 2.85 min Scan# 225

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

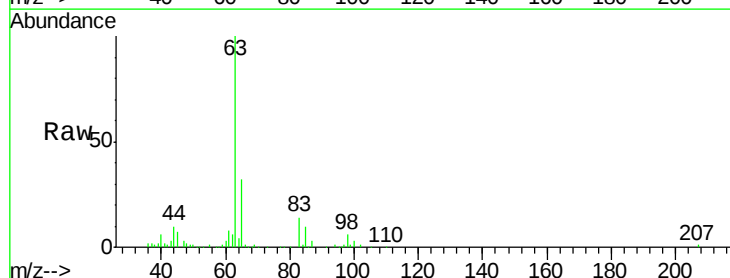
Tgt Ion: 63 Resp: 103506

Ion Ratio Lower Upper

63 100

98 6.0 2.9 8.6

100 3.3 1.8 5.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.85

50000

40000

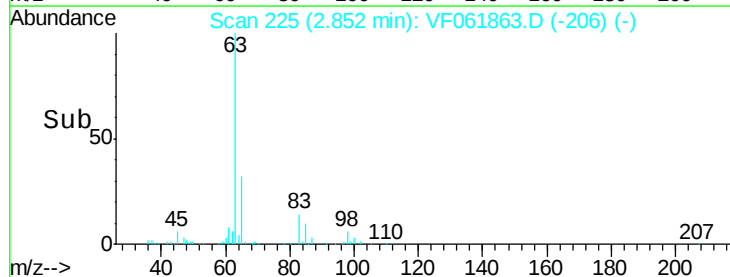
30000

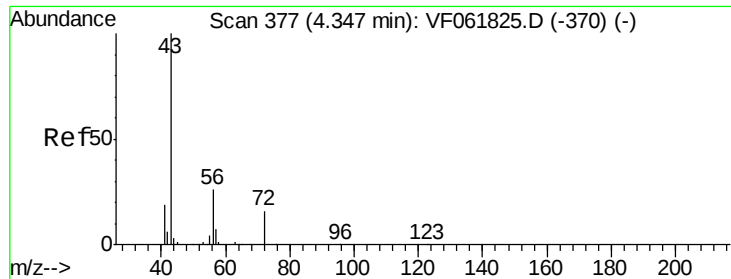
20000

10000

0

Time--> 2.70 2.80 2.90 3.00





#25

2-Butanone

Concen: 104.221 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

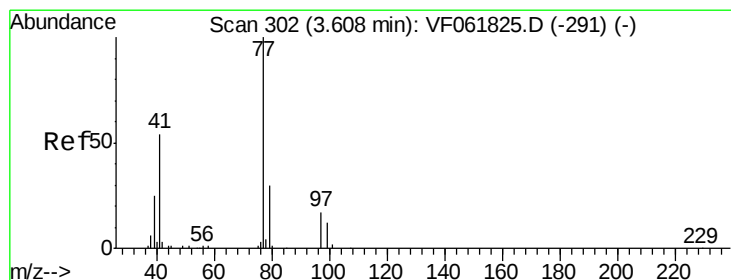
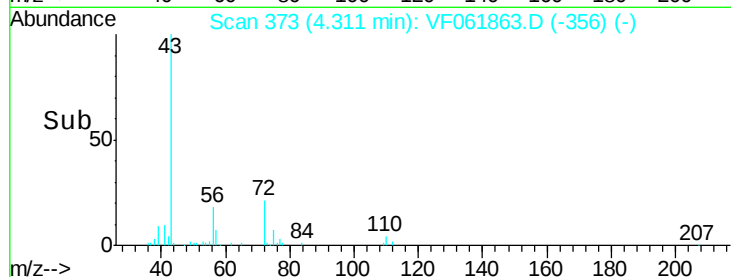
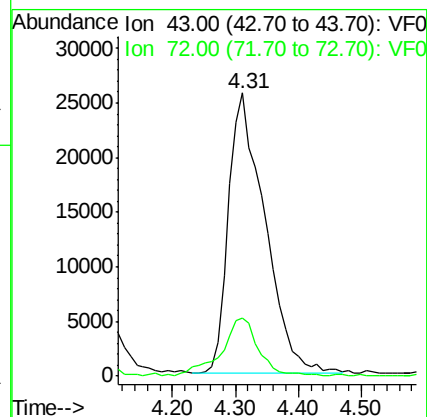
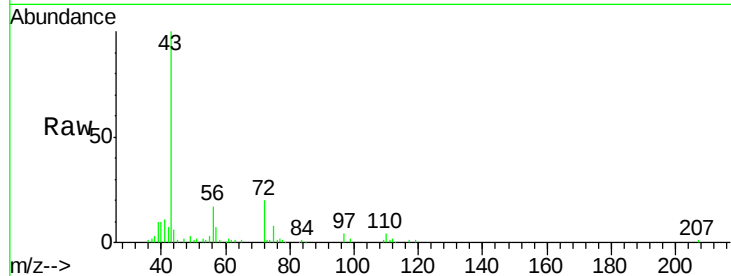
VF0308SBS01

Tot Ion: 43 Resp: 102736

Ion Ratio Lower Upper

43 100

72 20.3 16.2 24.4



#26

2,2-Dichloropropane

Concen: 22.179 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.04 min

Lab File: VF061863.D

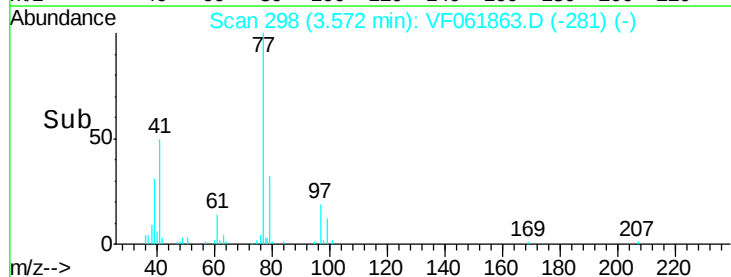
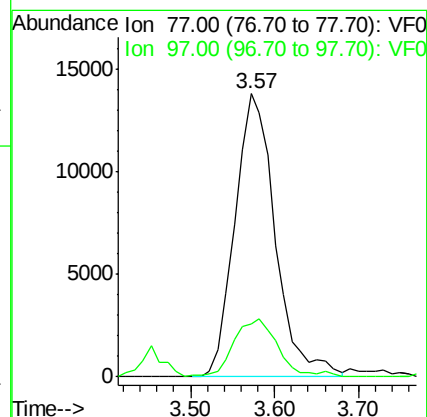
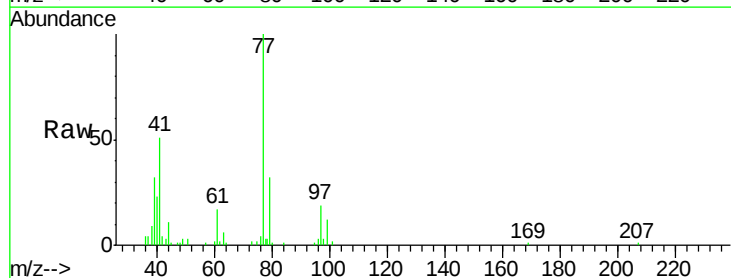
Acq: 8 Mar 2019 15:26

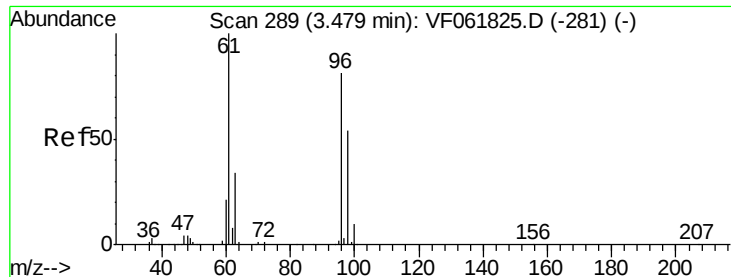
Tgt Ion: 77 Resp: 46077

Ion Ratio Lower Upper

77 100

97 18.7 10.4 31.4



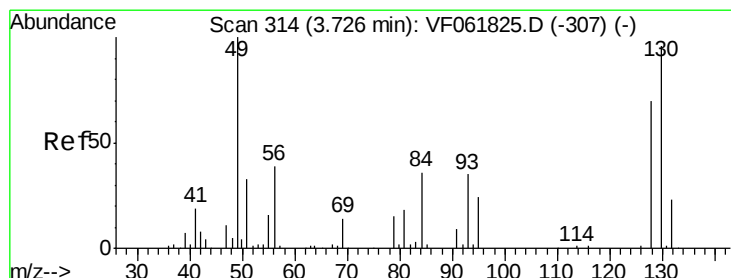
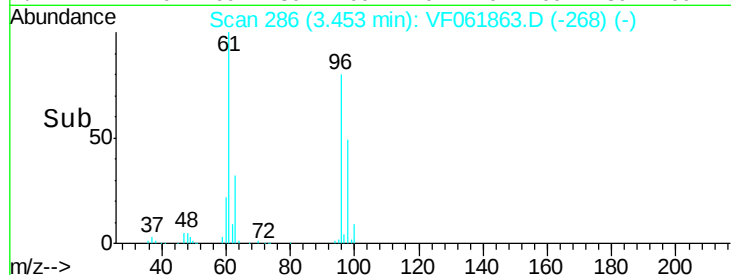
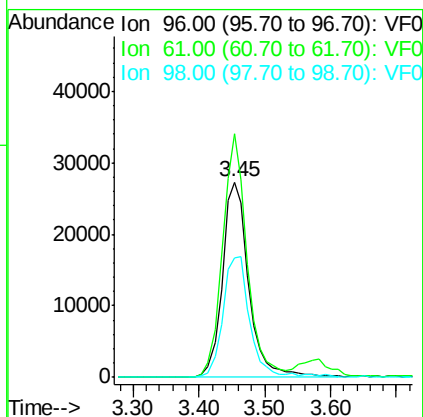
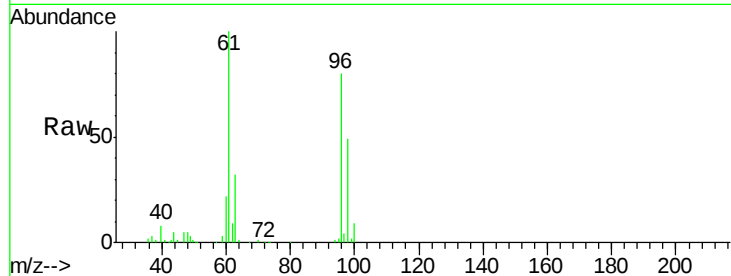


#27

cis-1,2-Dichloroethene
 Concen: 21.537 ug/l
 RT: 3.45 min Scan# 286
 Delta R.T. -0.03 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

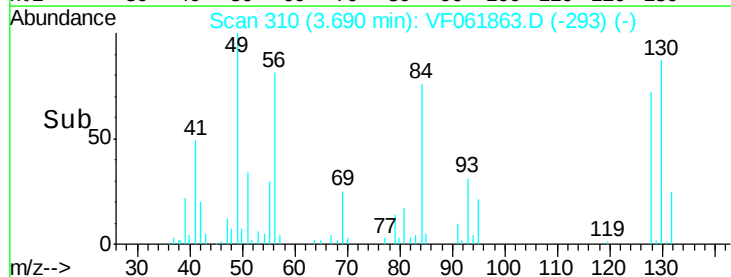
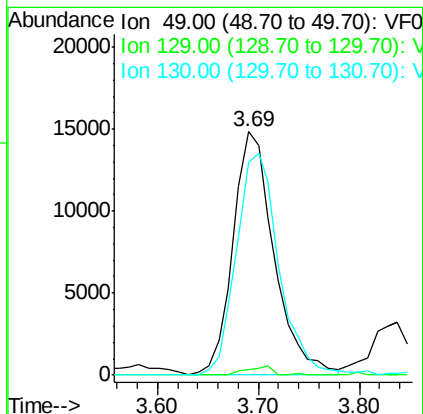
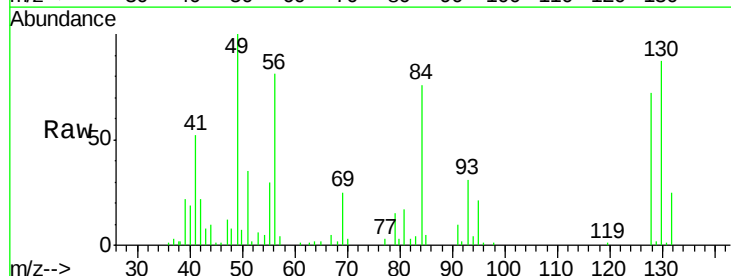
Tot Ion: 96 Resp: 76299
 Ion Ratio Lower Upper
 96 100
 61 124.8 0.0 245.8
 98 61.5 0.0 132.6

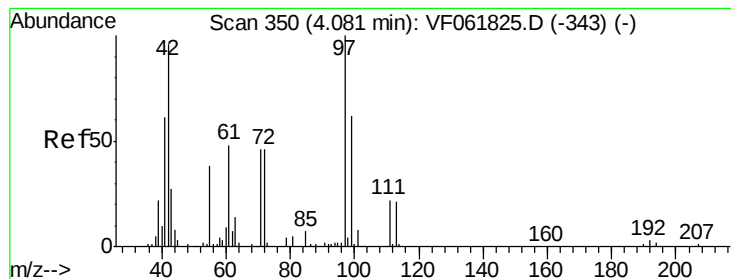


#28

Bromochloromethane
 Concen: 20.803 ug/l
 RT: 3.69 min Scan# 310
 Delta R.T. -0.04 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Tgt Ion: 49 Resp: 42201
 Ion Ratio Lower Upper
 49 100
 129 2.2 0.0 0.0#
 130 87.4 76.9 115.3





#29

Tetrahydrofuran

Concen: 94.629 ug/l

RT: 4.05 min Scan# 346

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

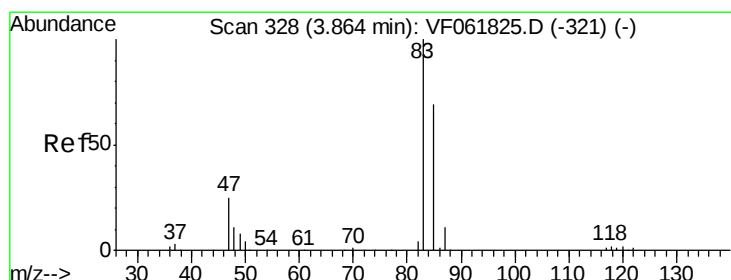
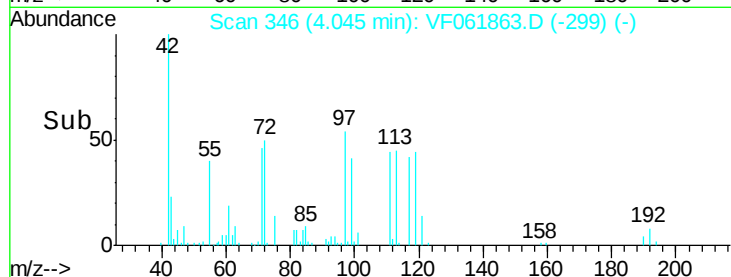
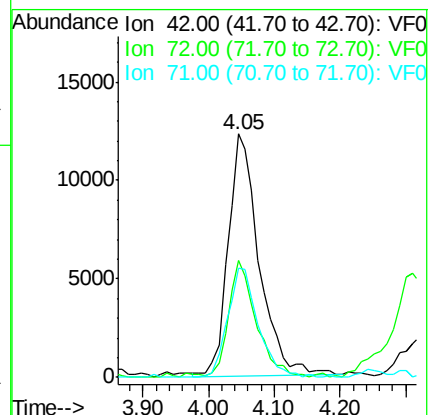
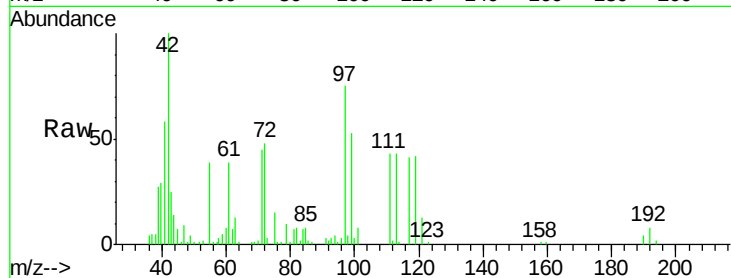
Tot Ion: 42 Resp: 40229

Ion Ratio Lower Upper

42 100

72 43.4 34.4 51.6

71 44.6 34.6 52.0



#30

Chloroform

Concen: 21.658 ug/l

RT: 3.84 min Scan# 325

Delta R.T. -0.03 min

Lab File: VF061863.D

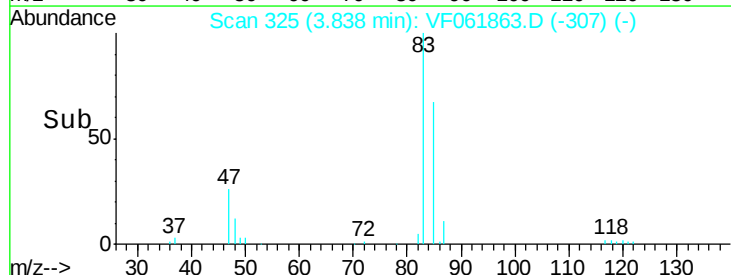
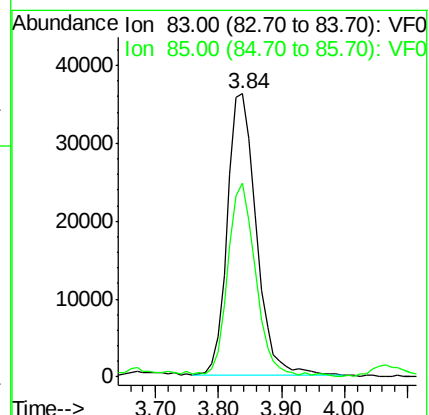
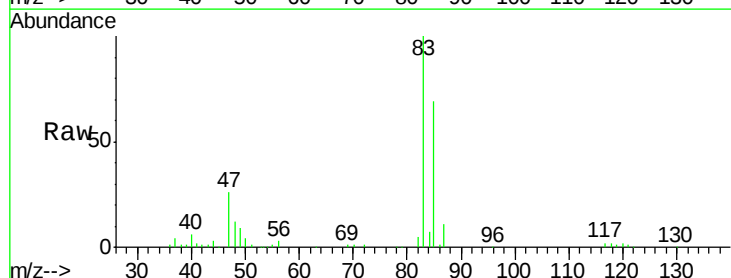
Acq: 8 Mar 2019 15:26

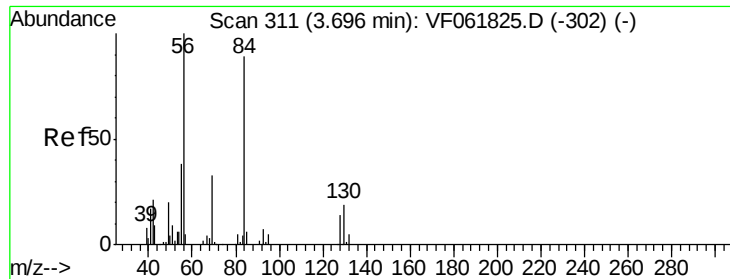
Tgt Ion: 83 Resp: 115124

Ion Ratio Lower Upper

83 100

85 68.6 55.3 82.9

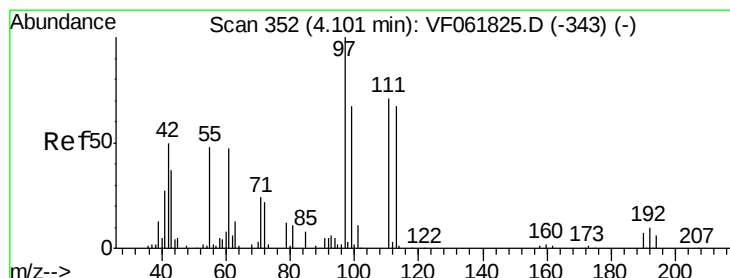
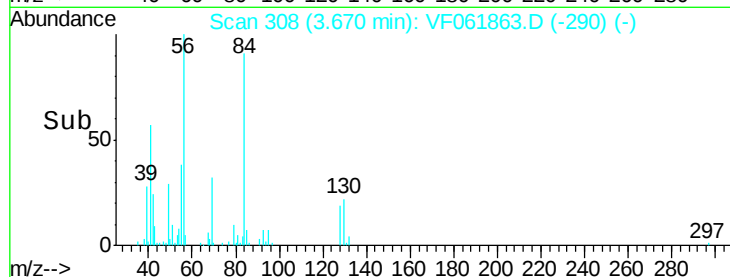
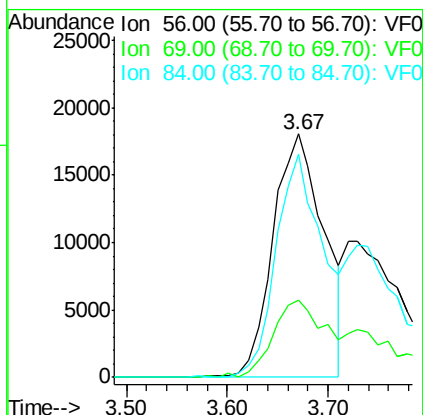
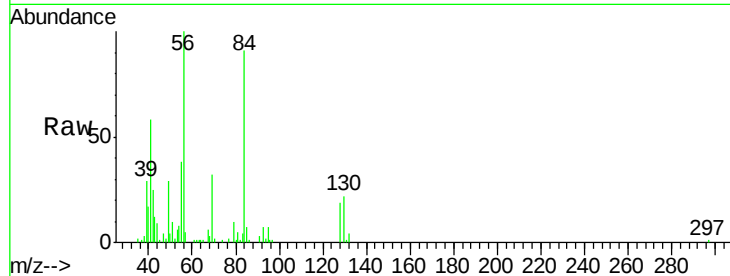




#31
Cyclohexane
Concen: 12.976 ug/l
RT: 3.67 min Scan# 308
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

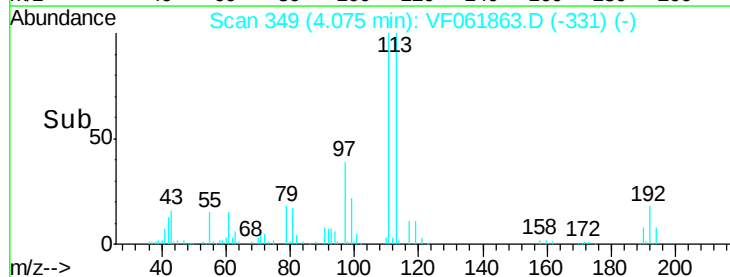
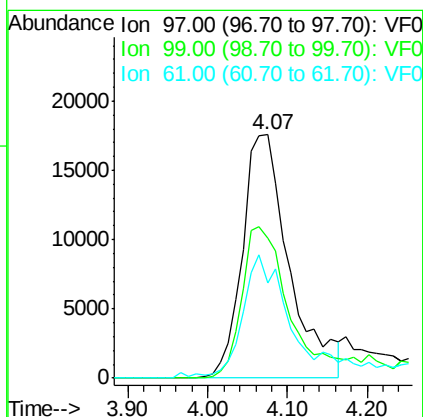
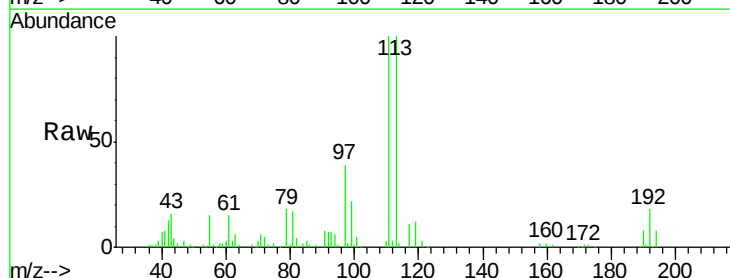
Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

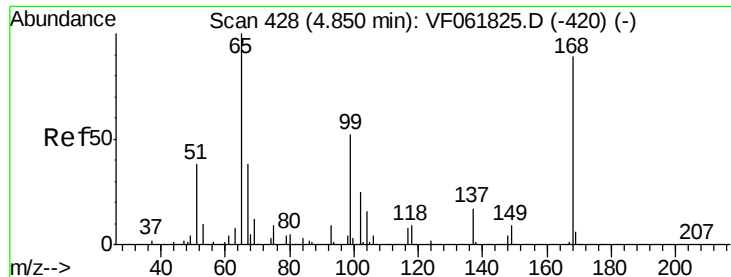
Tot Ion: 56 Resp: 63252
Ion Ratio Lower Upper
56 100
69 31.9 26.0 39.0
84 91.5 71.0 106.6



#32
1,1,1-Trichloroethane
Concen: 21.860 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion: 97 Resp: 71625
Ion Ratio Lower Upper
97 100
99 57.4 53.8 80.8
61 39.0 37.9 56.9





#33

1,2-Dichloroethane-d4

Concen: 54.291 ug/l

RT: 4.81 min Scan# 424

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

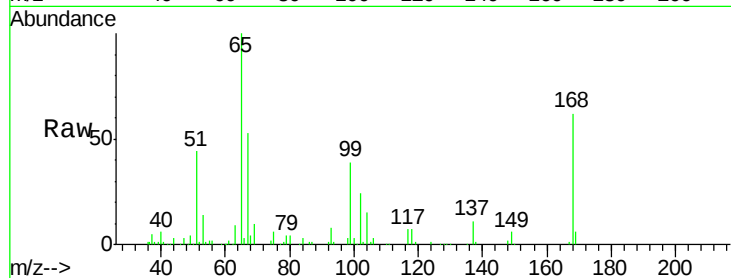
VF0308SBS01

Tot Ion: 65 Resp: 125602

Ion Ratio Lower Upper

65 100

67 53.0 0.0 108.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

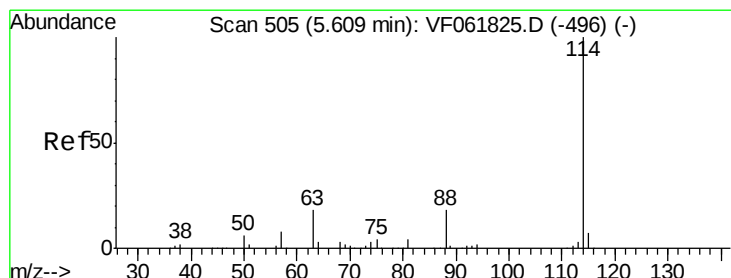
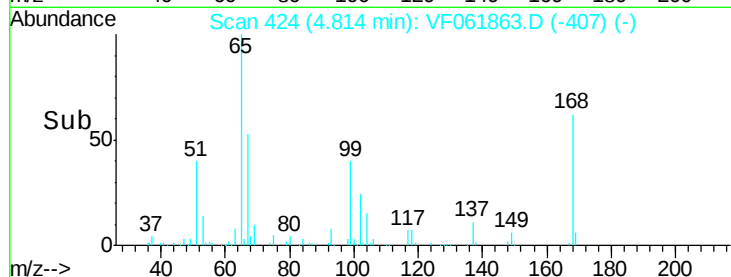
Ion 67.00 (66.70 to 67.70): VF0

4.81

4.80

4.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

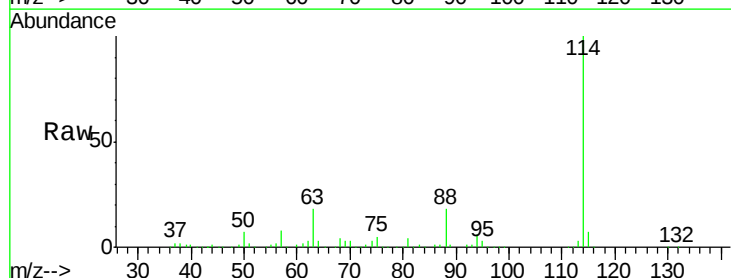
Tgt Ion: 114 Resp: 481121

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.6

88 17.6 0.0 35.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

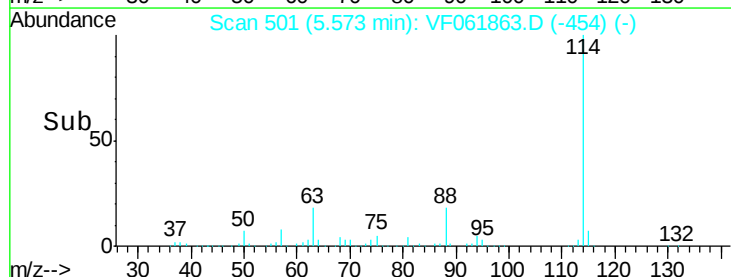
Ion 88.00 (87.70 to 88.70): VF0

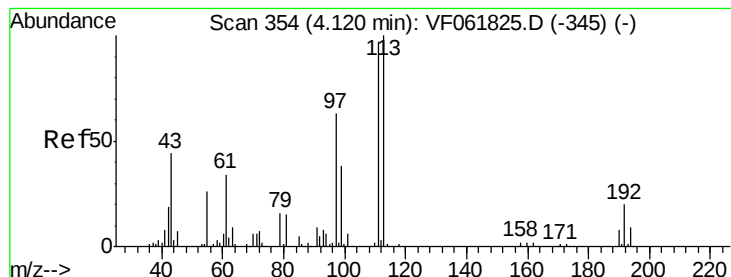
5.57

5.40

5.80

Time-->





#35

Dibromofluoromethane

Concen: 53.681 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

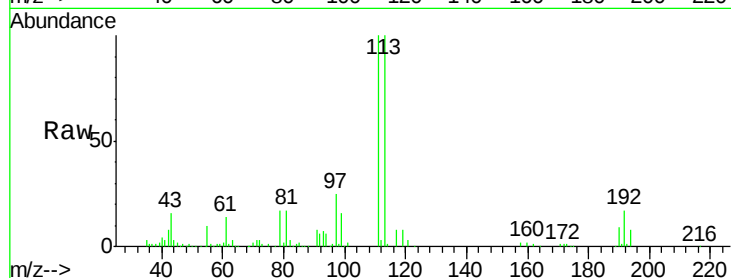
Tot Ion:113 Resp: 180238

Ion Ratio Lower Upper

113 100

111 99.6 77.6 116.4

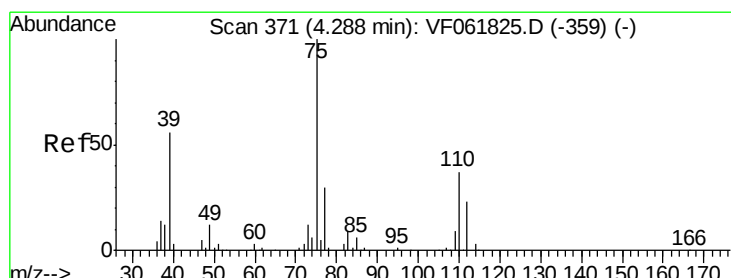
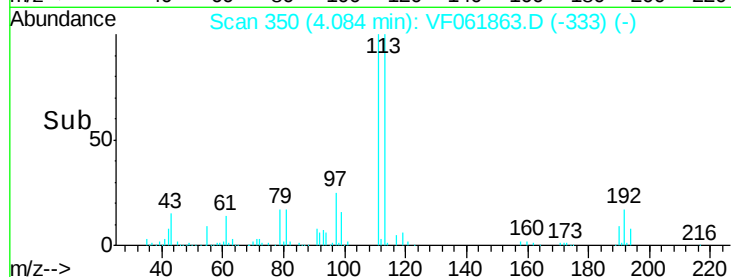
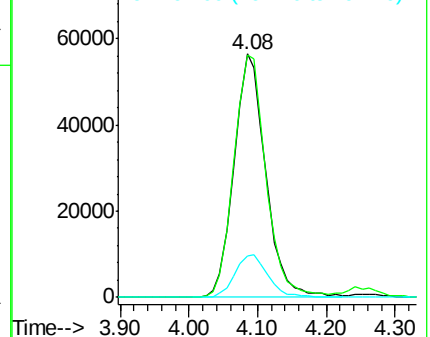
192 17.9 15.9 23.9



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 20.196 ug/l

RT: 4.26 min Scan# 368

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

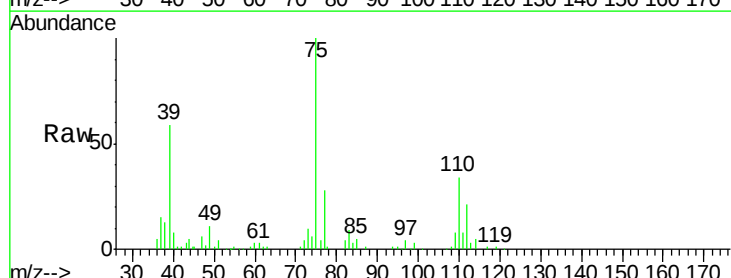
Tgt Ion: 75 Resp: 91785

Ion Ratio Lower Upper

75 100

110 33.9 18.6 55.6

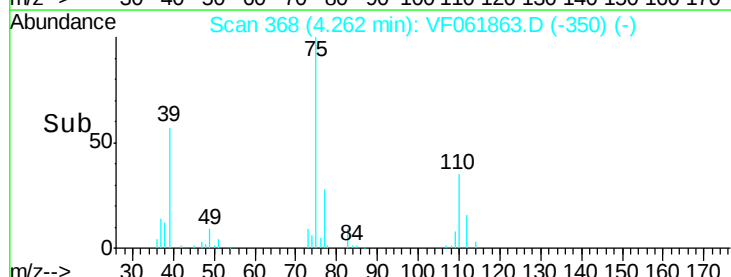
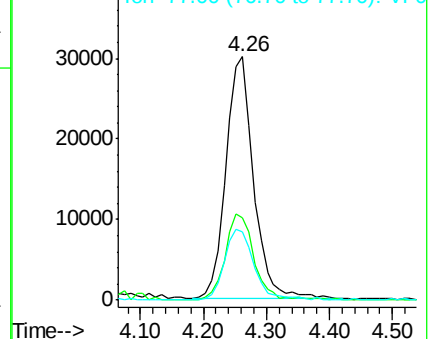
77 27.8 24.2 36.2

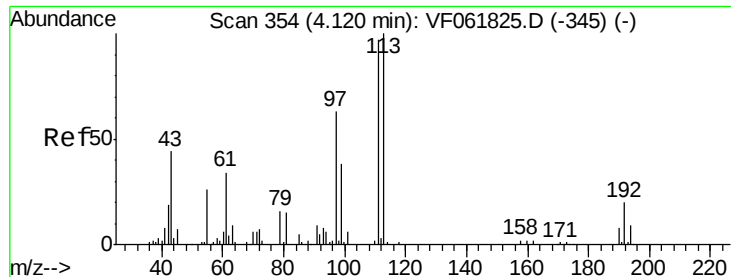


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 18.002 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

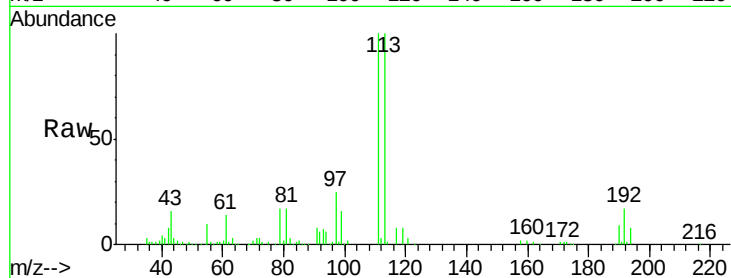
Tot Ion: 43 Resp: 34341

Ion Ratio Lower Upper

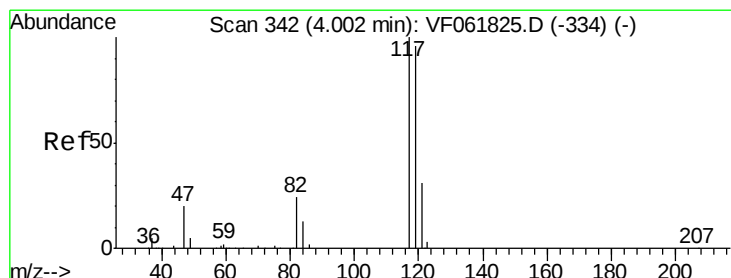
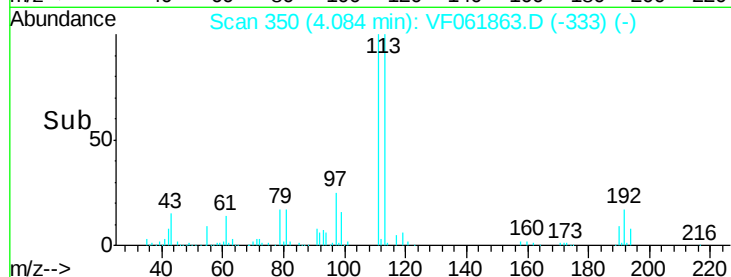
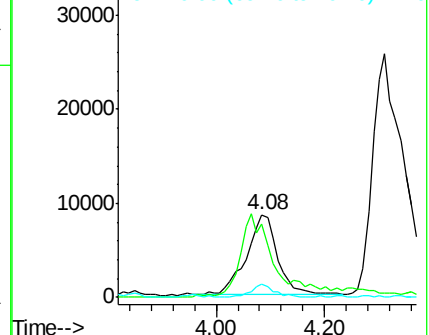
43 100

61 89.2 60.7 91.1

70 15.7 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



#38

Carbon Tetrachloride

Concen: 22.281 ug/l

RT: 3.97 min Scan# 338

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

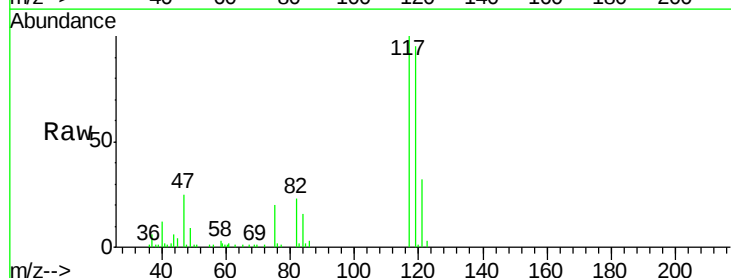
Tgt Ion: 117 Resp: 71681

Ion Ratio Lower Upper

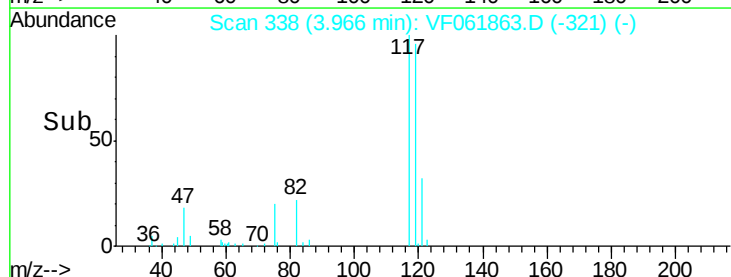
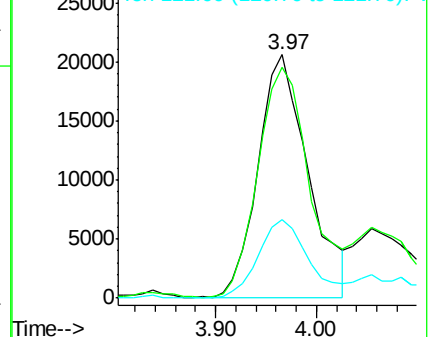
117 100

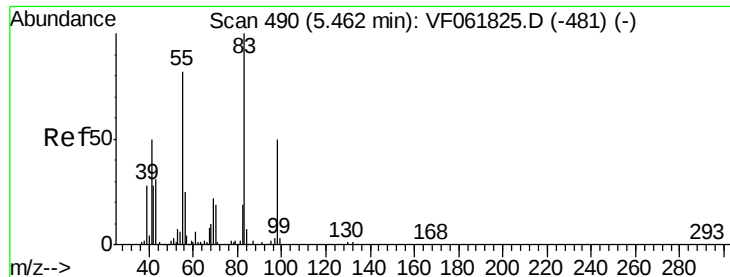
119 95.0 76.6 114.8

121 32.0 24.4 36.6



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

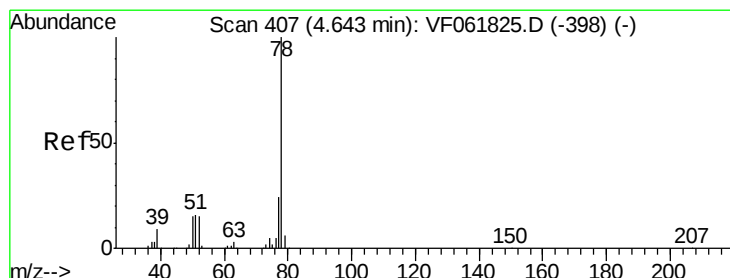
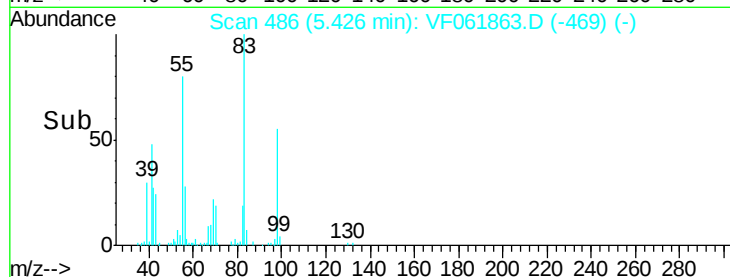
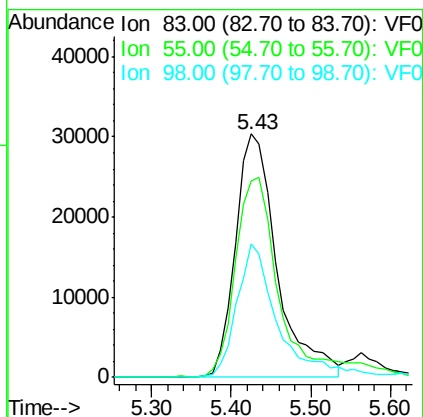
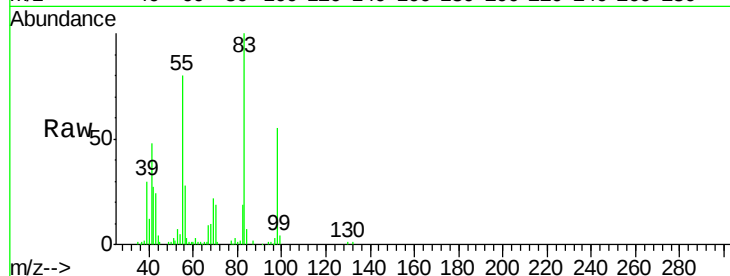




#39
Methvlcvclohexane
Concen: 20.546 ug/l
RT: 5.43 min Scan# 486
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

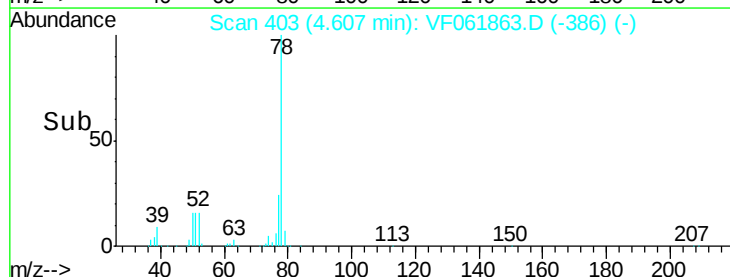
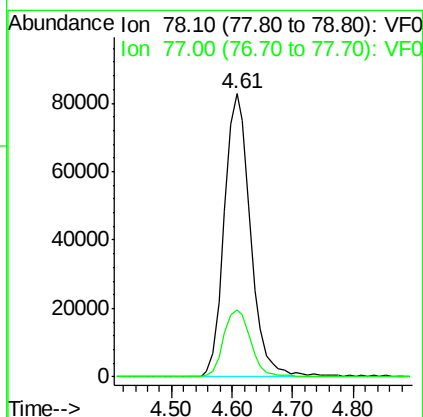
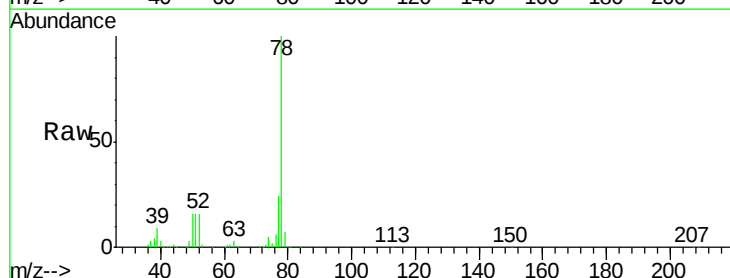
Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

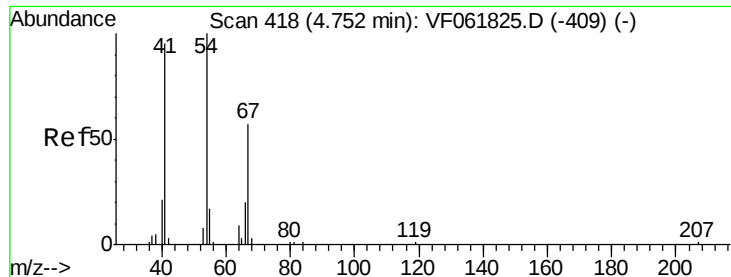
Tot Ion: 83 Resp: 110289
Ion Ratio Lower Upper
83 100
55 80.4 66.0 99.0
98 54.8 39.8 59.6



#40
Benzene
Concen: 20.948 ug/l
RT: 4.61 min Scan# 403
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion: 78 Resp: 248847
Ion Ratio Lower Upper
78 100
77 23.9 19.5 29.3

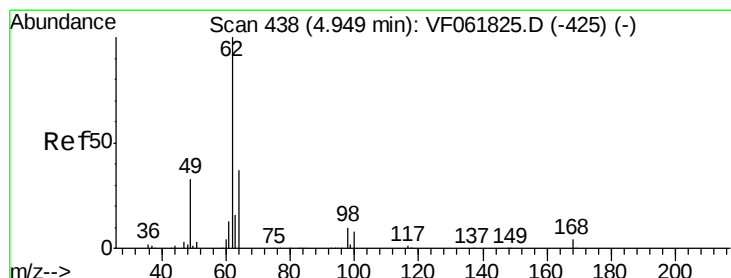
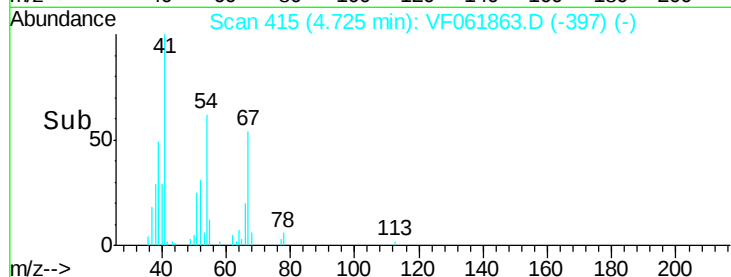
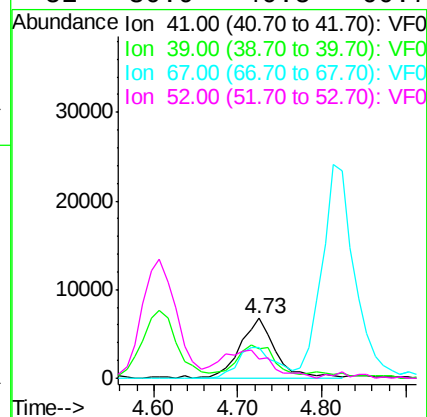
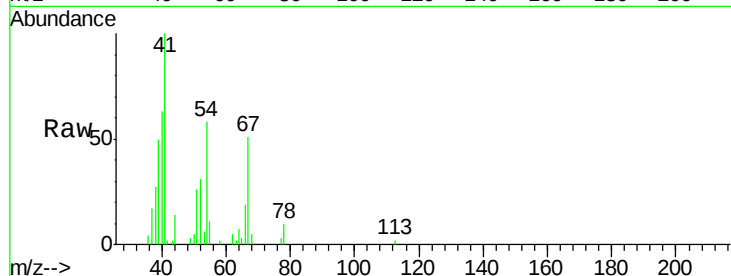




#41
Methacrylonitrile
Concen: 19.104 ug/l
RT: 4.73 min Scan# 415
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

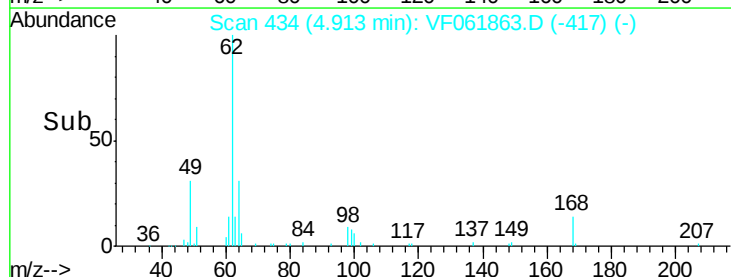
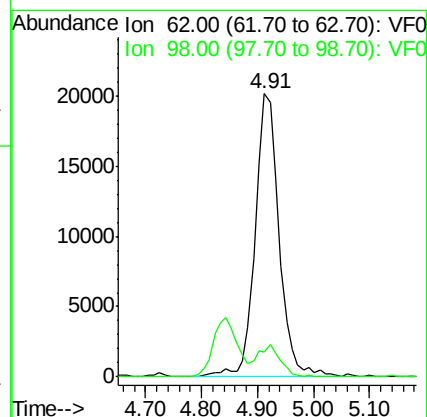
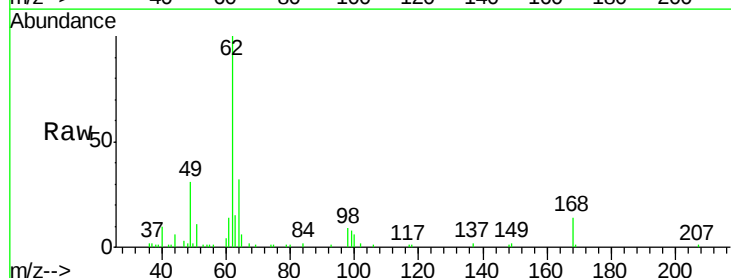
Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

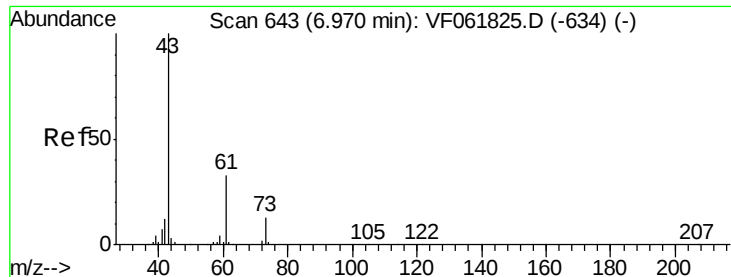
Tot Ion:	41	Resp:	19966
Ion	Ratio	Lower	Upper
41	100		
39	49.5	43.0	64.6
67	50.5	47.8	71.8
52	30.9	40.5	60.7#



#42
1,2-Dichloroethane
Concen: 20.245 ug/l
RT: 4.91 min Scan# 434
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion:	62	Resp:	59934
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	21.0





#43

Isopropyl Acetate

Concen: 19.870 ug/l

RT: 6.93 min Scan# 639

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

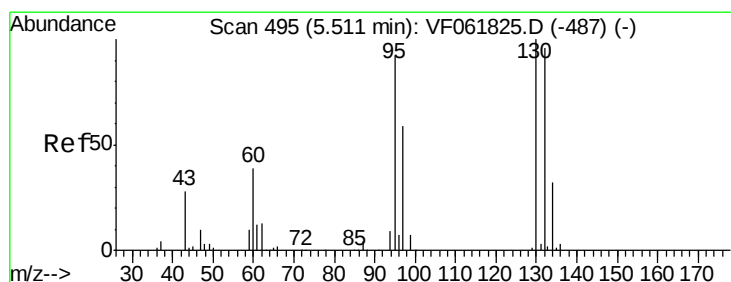
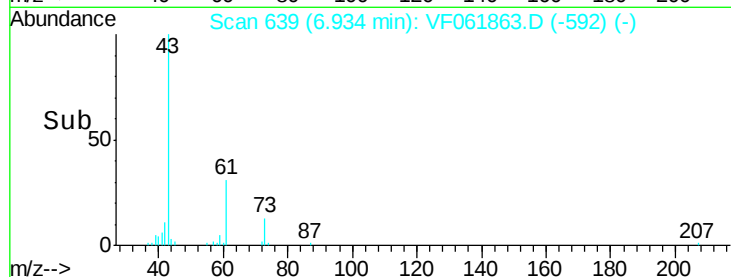
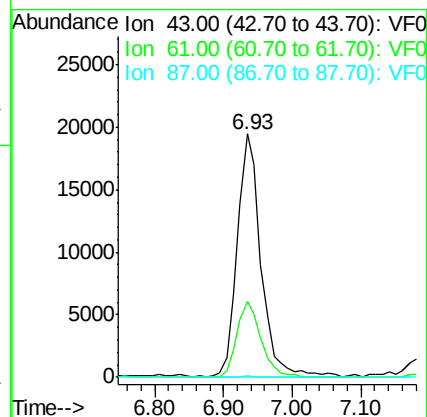
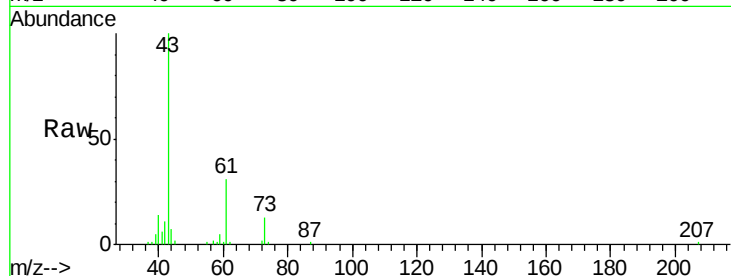
Tot Ion: 43 Resp: 46722

Ion Ratio Lower Upper

43 100

61 31.1 26.1 39.1

87 0.7 0.0 0.0#



#44

Trichloroethene

Concen: 20.906 ug/l

RT: 5.47 min Scan# 491

Delta R.T. -0.04 min

Lab File: VF061863.D

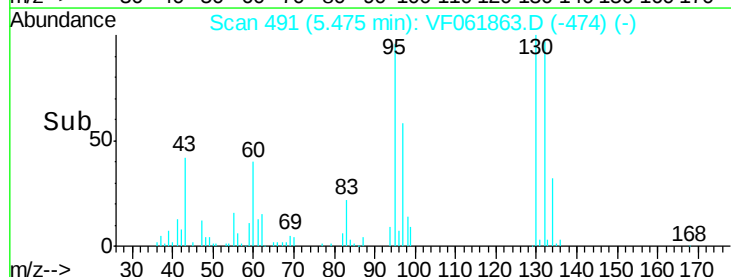
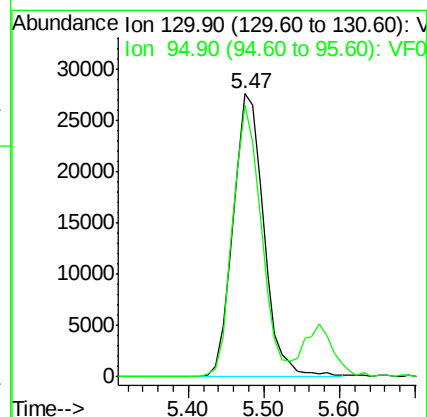
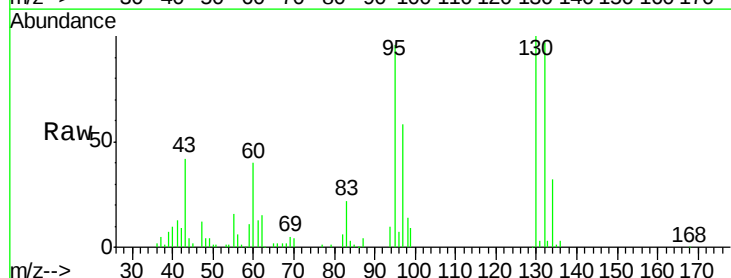
Acq: 8 Mar 2019 15:26

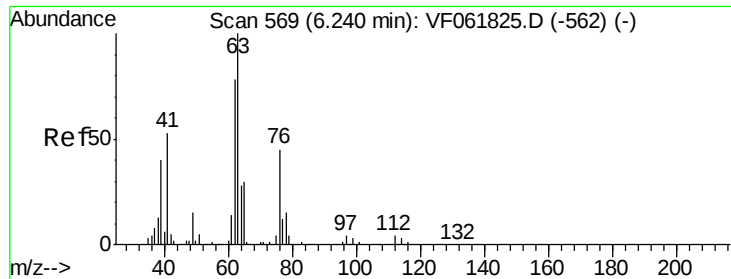
Tgt Ion:130 Resp: 77181

Ion Ratio Lower Upper

130 100

95 96.0 0.0 184.0





#45

1,2-Dichloropropane

Concen: 20.169 ug/l

RT: 6.20 min Scan# 565

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

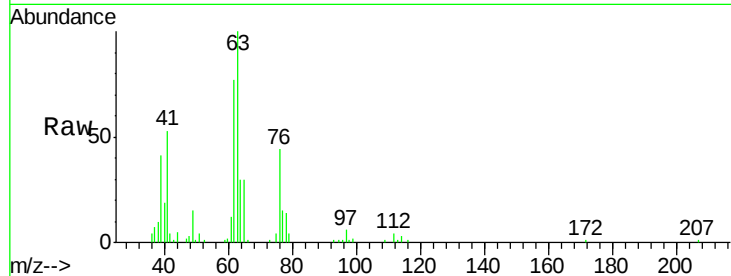
VF0308SBS01

Tot Ion: 63 Resp: 56973

Ion Ratio Lower Upper

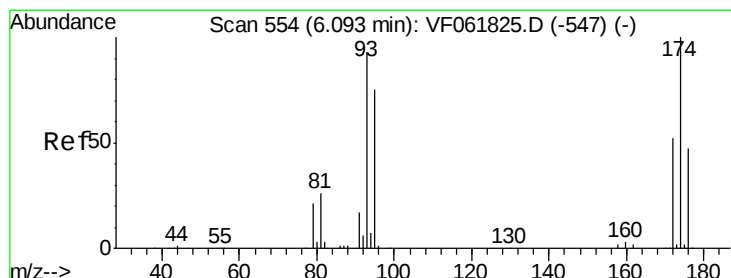
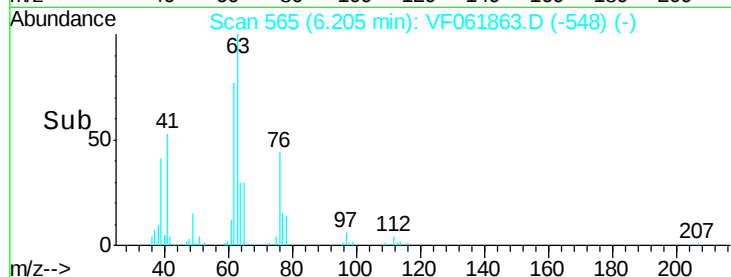
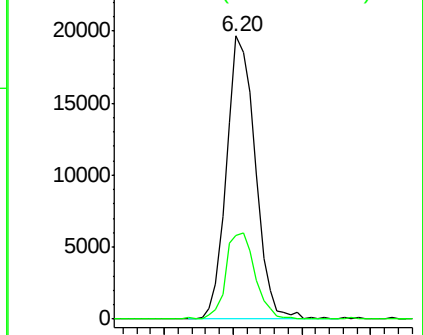
63 100

65 29.6 24.0 36.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 18.364 ug/l

RT: 6.06 min Scan# 550

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

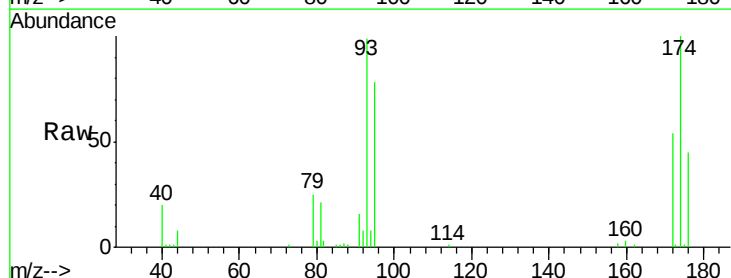
Tgt Ion: 93 Resp: 32648

Ion Ratio Lower Upper

93 100

95 78.8 64.4 96.6

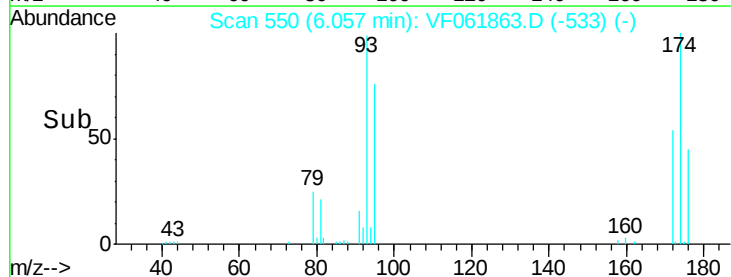
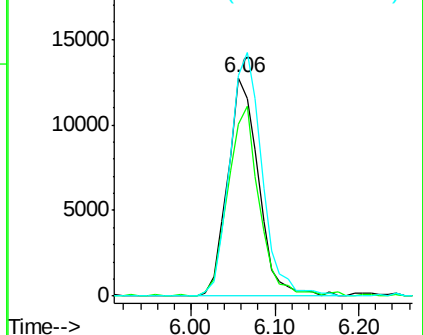
174 101.3 85.8 128.6

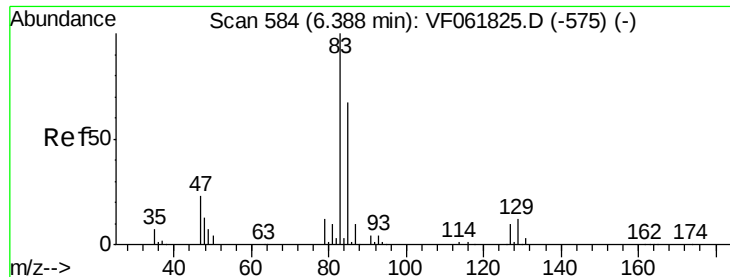


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 20.787 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

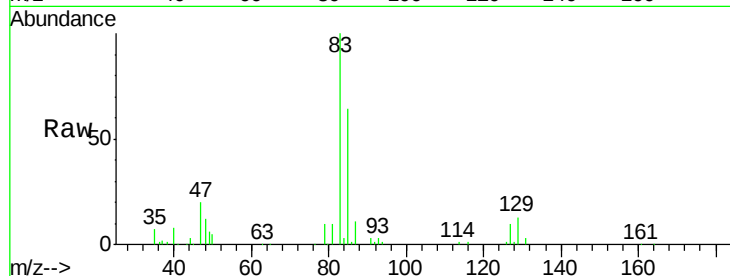
Tot Ion: 83 Resp: 81644

Ion Ratio Lower Upper

83 100

85 64.1 53.6 80.4

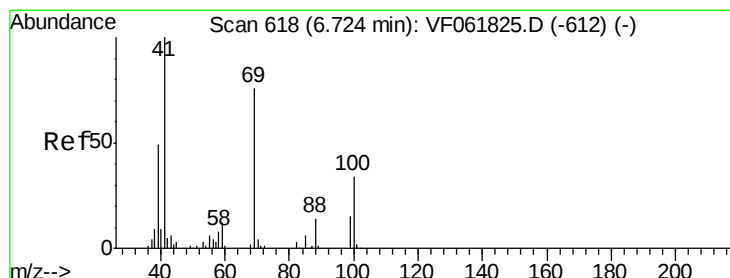
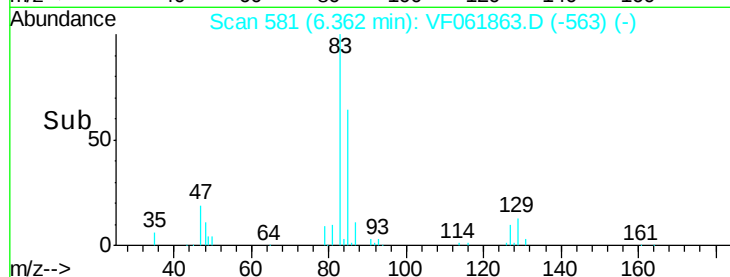
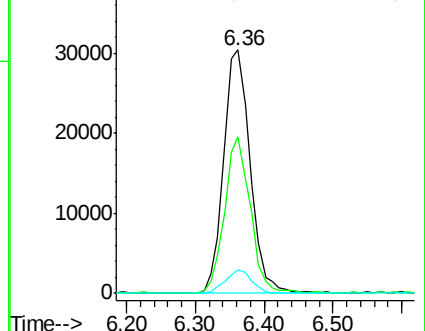
127 9.5 8.1 12.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 17.747 ug/l

RT: 6.69 min Scan# 614

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

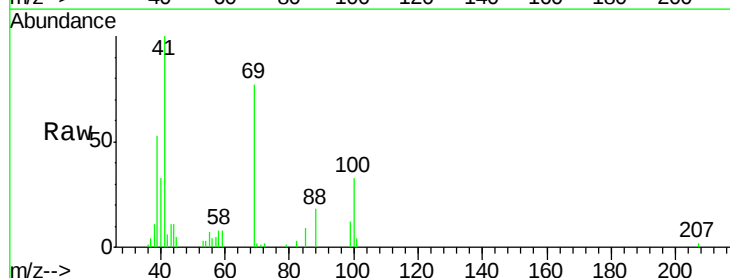
Tgt Ion: 41 Resp: 26410

Ion Ratio Lower Upper

41 100

69 76.5 60.4 90.6

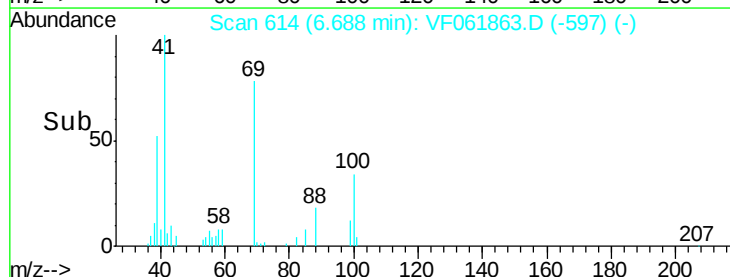
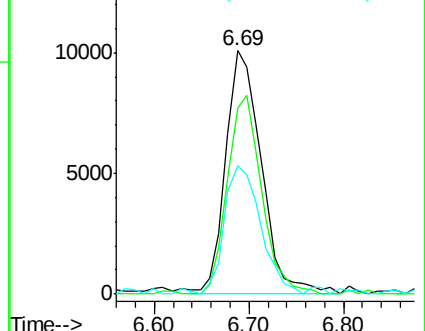
39 52.6 39.7 59.5



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: 318.954 ug/l

RT: 6.69 min Scan# 614

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

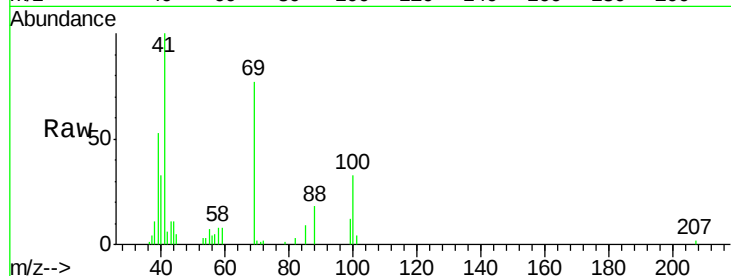
Tot Ion: 88 Resp: 4339

Ion Ratio Lower Upper

88 100

43 63.8 28.4 42.6#

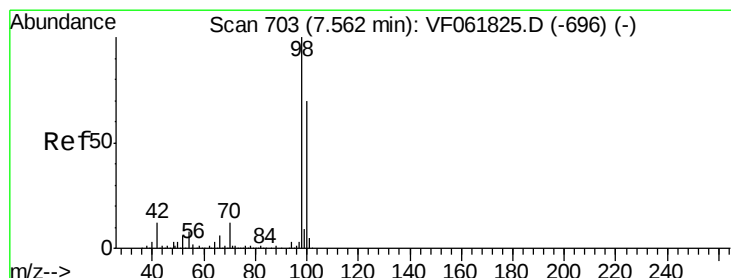
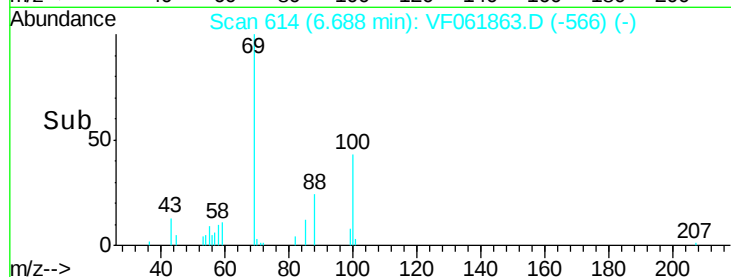
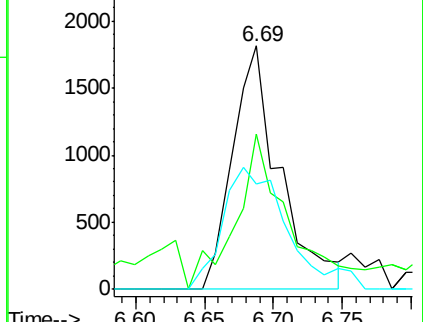
58 43.4 50.7 76.1#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 52.713 ug/l

RT: 7.53 min Scan# 699

Delta R.T. -0.04 min

Lab File: VF061863.D

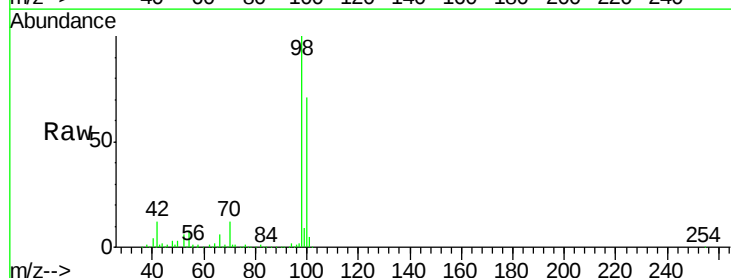
Acq: 8 Mar 2019 15:26

Tgt Ion: 98 Resp: 526064

Ion Ratio Lower Upper

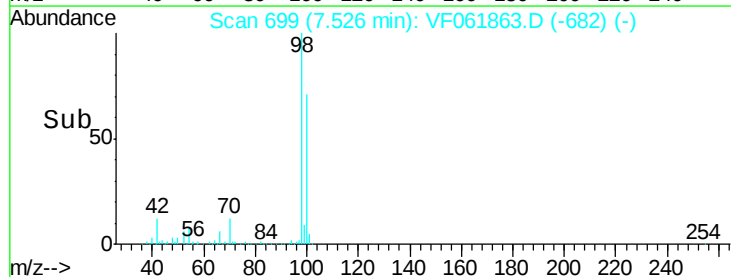
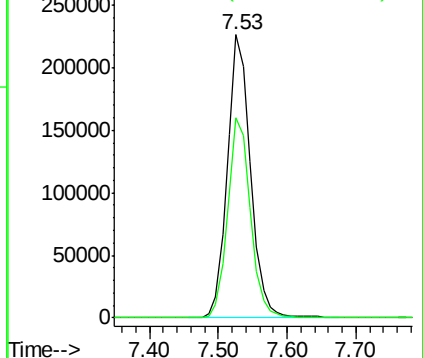
98 100

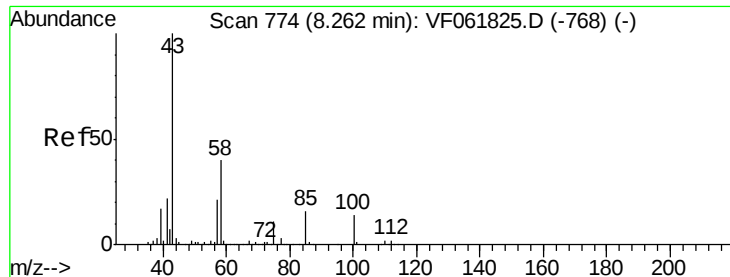
100 70.6 56.0 84.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 96.424 ug/l

RT: 8.24 min Scan# 771

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

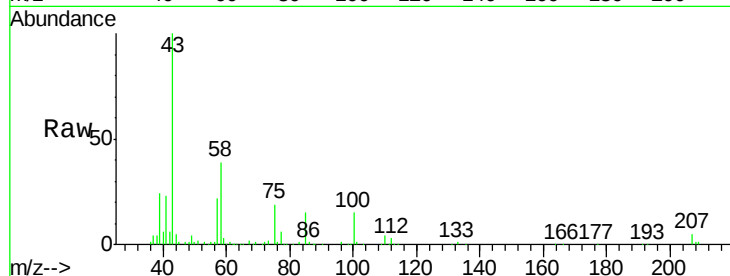
VF0308SBS01

Tot Ion: 43 Resp: 156702

Ion Ratio Lower Upper

43 100

58 39.4 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

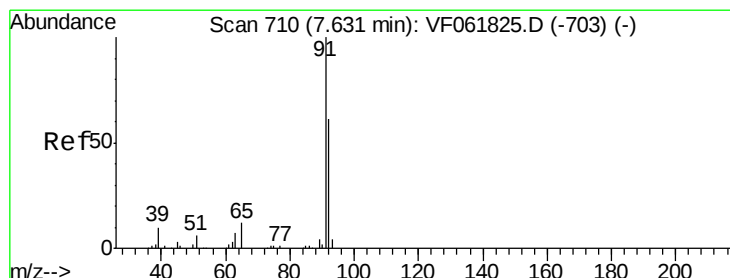
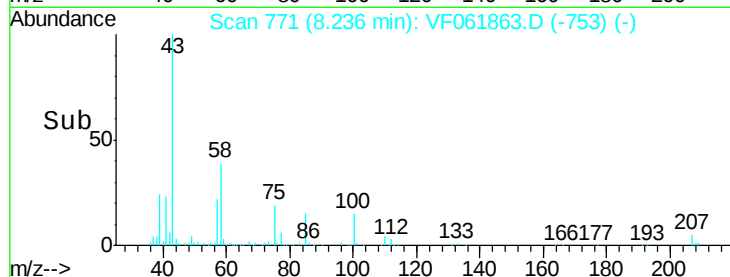
60000

40000

20000

0

Time-->



#52

Toluene

Concen: 20.187 ug/l

RT: 7.60 min Scan# 707

Delta R.T. -0.03 min

Lab File: VF061863.D

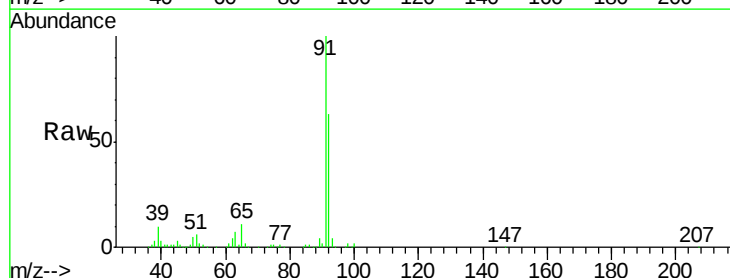
Acq: 8 Mar 2019 15:26

Tgt Ion: 92 Resp: 141864

Ion Ratio Lower Upper

92 100

91 159.6 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.60

100000

80000

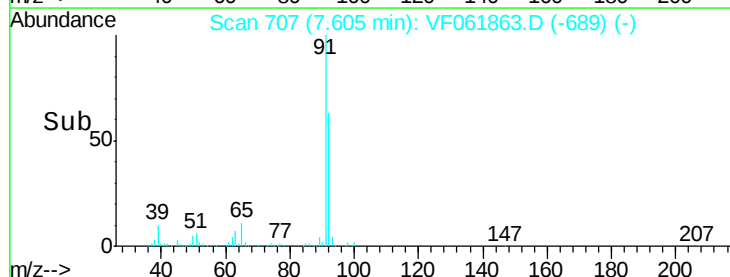
60000

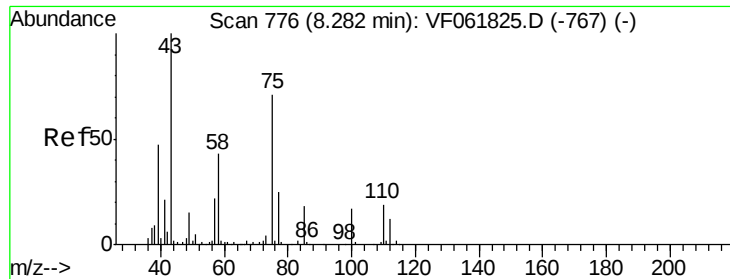
40000

20000

0

Time-->

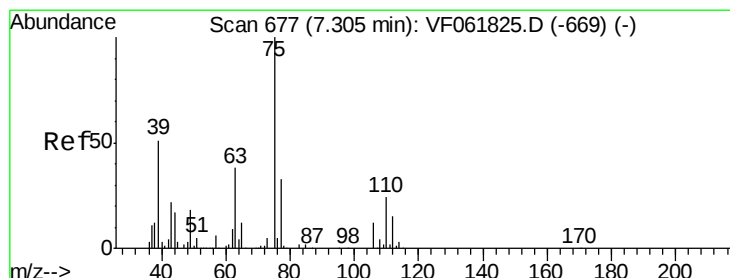
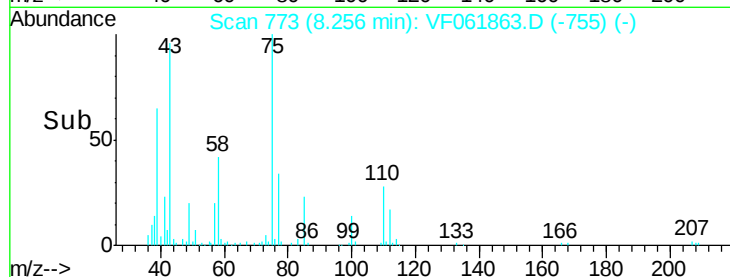
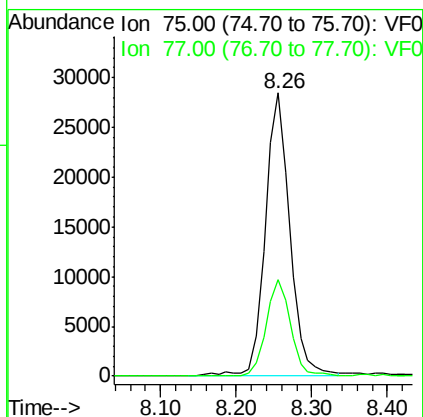
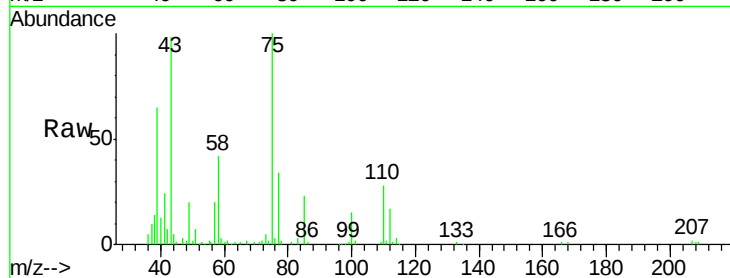




#53
 t-1,3-Dichloropropene
 Concen: 19.859 ug/l
 RT: 8.26 min Scan# 773
 Delta R.T. -0.03 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

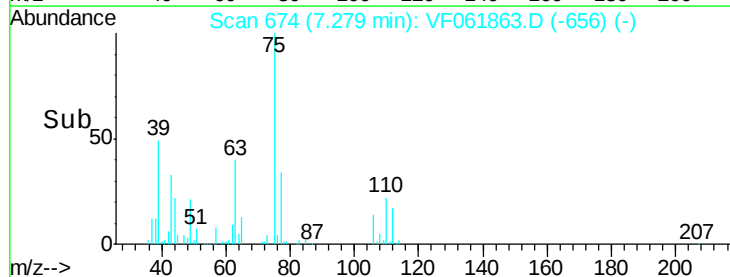
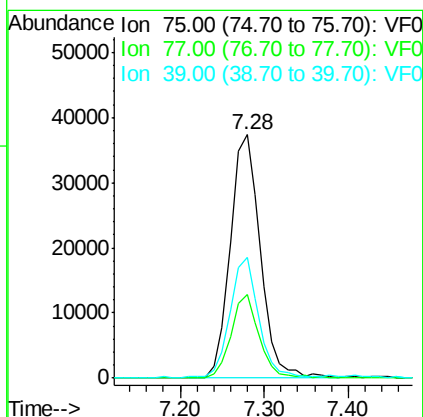
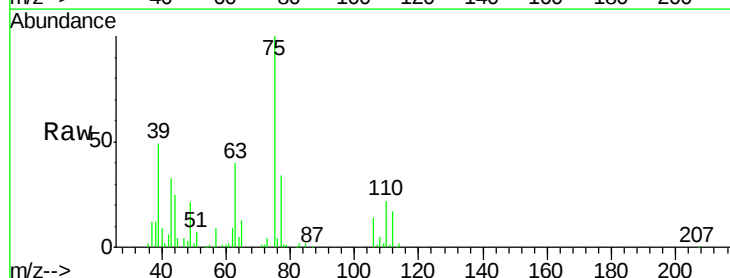
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

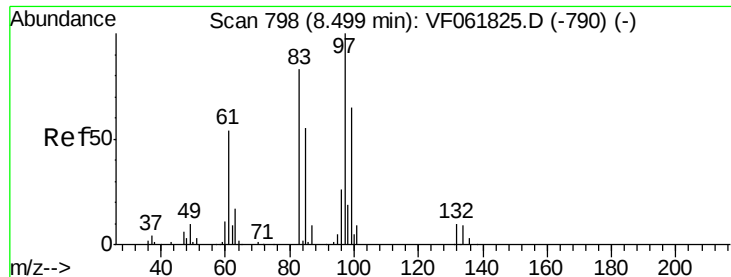
Tot Ion: 75 Resp: 64386
 Ion Ratio Lower Upper
 75 100
 77 34.1 28.0 42.0



#54
 cis-1,3-Dichloropropene
 Concen: 20.770 ug/l
 RT: 7.28 min Scan# 674
 Delta R.T. -0.03 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Tgt Ion: 75 Resp: 92882
 Ion Ratio Lower Upper
 75 100
 77 34.2 26.3 39.5
 39 49.5 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 19.870 ug/l

RT: 8.46 min Scan# 794

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

Tot Ion: 97 Resp: 40234

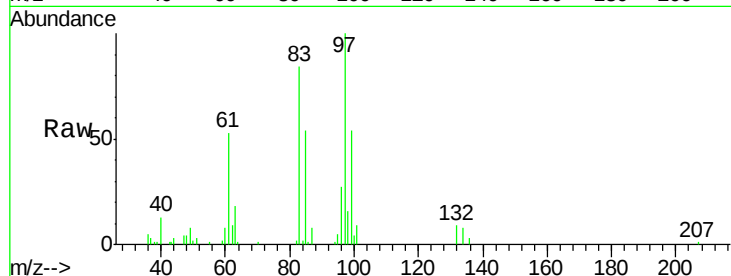
Ion Ratio Lower Upper

97 100

83 84.4 66.5 99.7

85 53.7 44.2 66.2

99 54.0 51.8 77.6

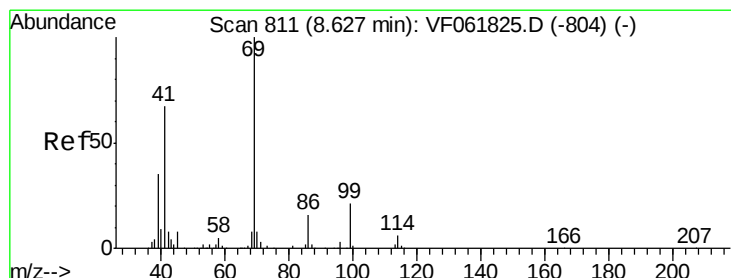
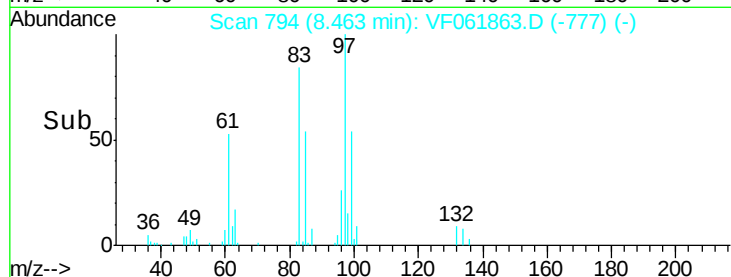
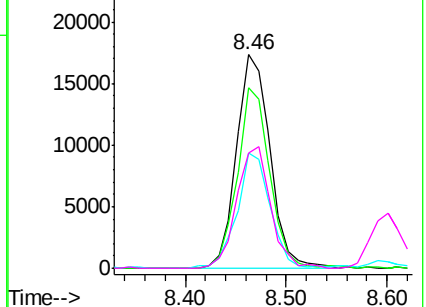


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 20.657 ug/l

RT: 8.60 min Scan# 808

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

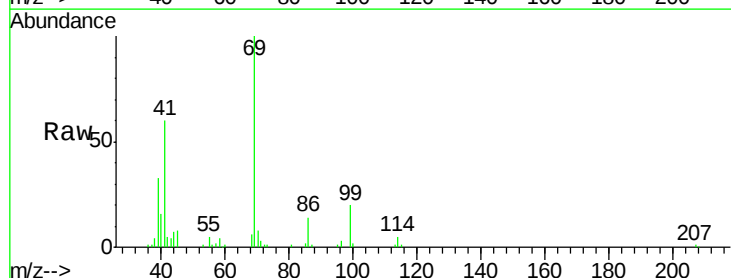
Tgt Ion: 69 Resp: 47139

Ion Ratio Lower Upper

69 100

41 60.4 53.9 80.9

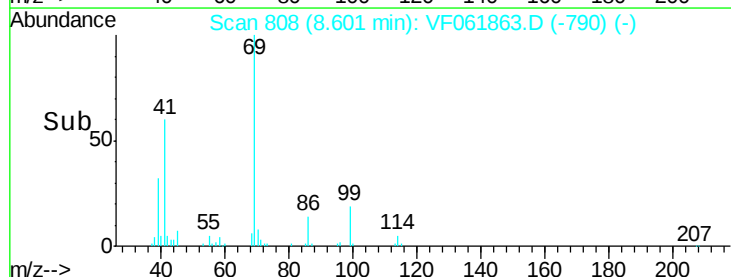
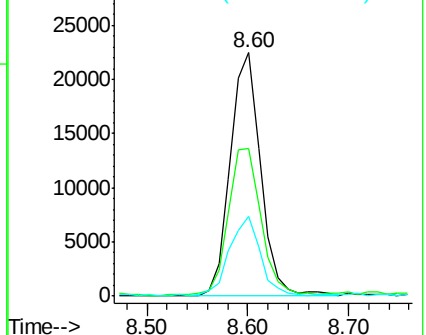
39 32.8 28.3 42.5

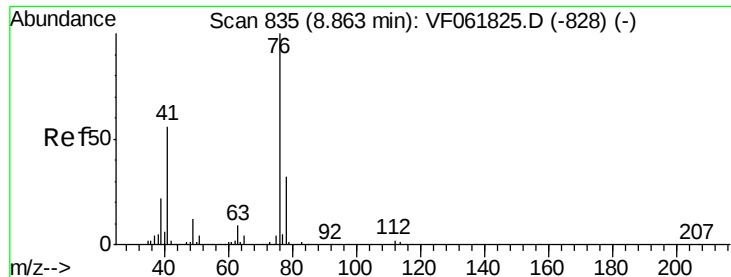


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 20.535 ug/l

RT: 8.83 min Scan# 831

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

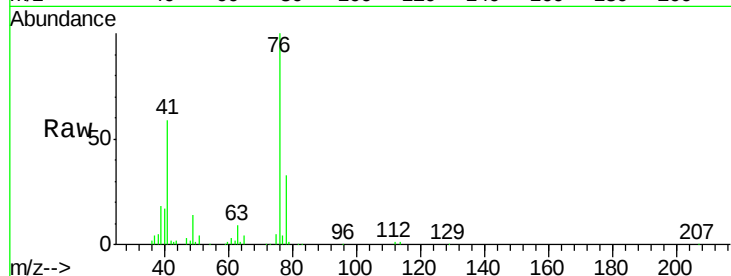
VF0308SBS01

Tot Ion: 76 Resp: 67998

Ion Ratio Lower Upper

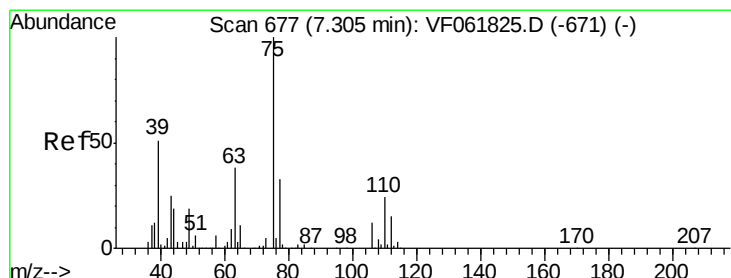
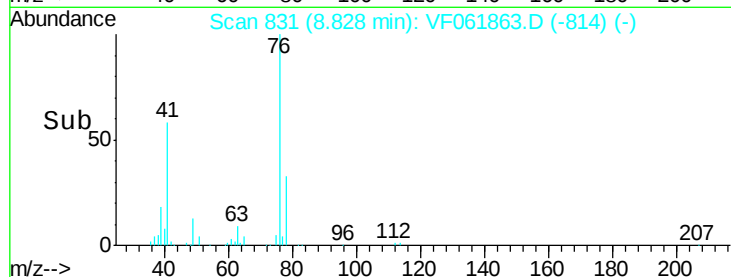
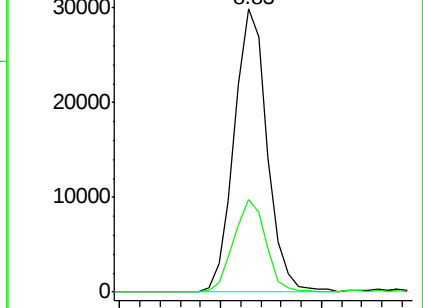
76 100

78 32.5 25.4 38.2



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 113.587 ug/l

RT: 7.27 min Scan# 673

Delta R.T. -0.04 min

Lab File: VF061863.D

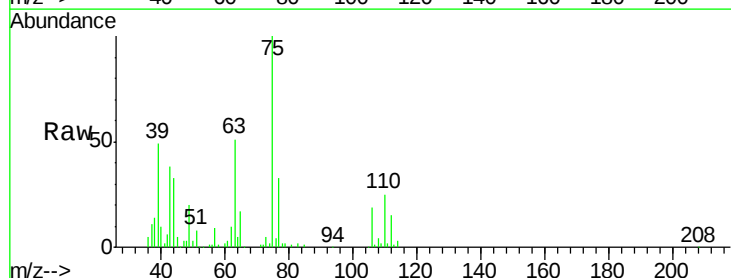
Acq: 8 Mar 2019 15:26

Tgt Ion: 63 Resp: 41003

Ion Ratio Lower Upper

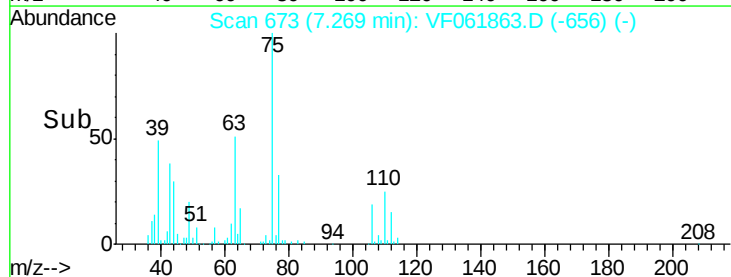
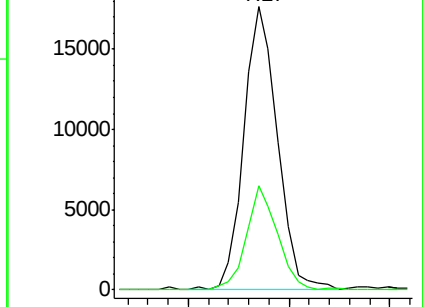
63 100

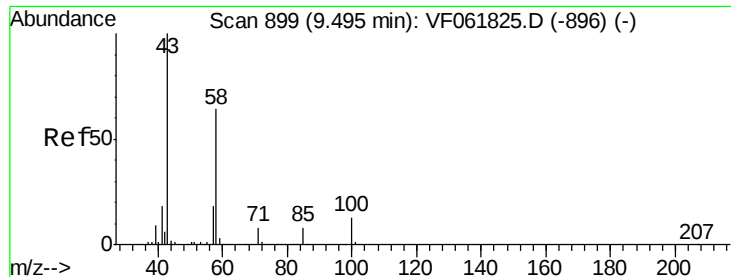
106 36.8 24.3 36.5#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

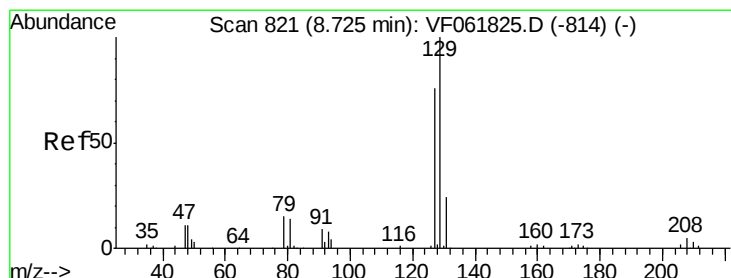
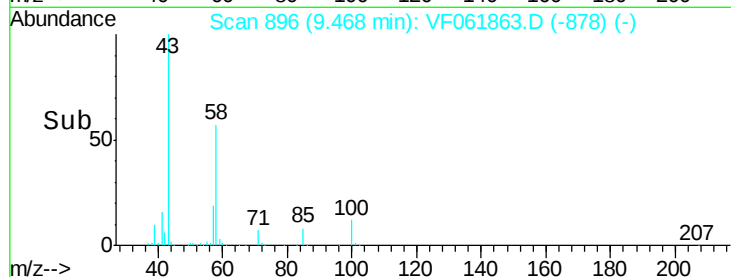
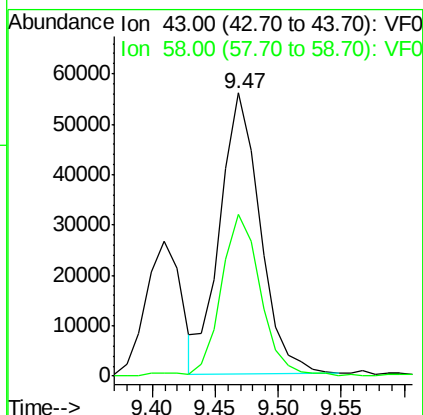
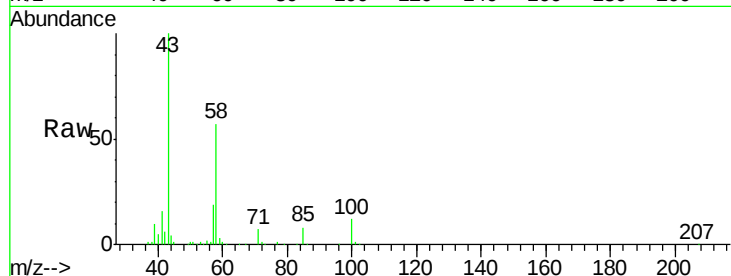




#59
2-Hexanone
Concen: 105.084 ug/l
RT: 9.47 min Scan# 896
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

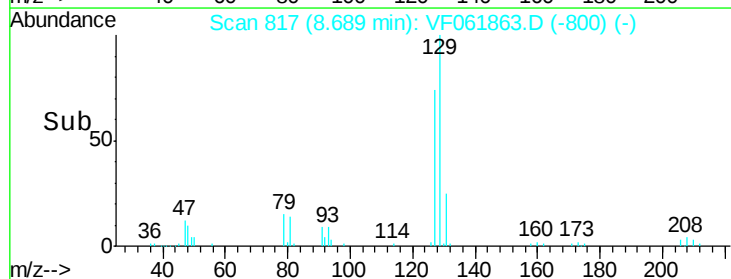
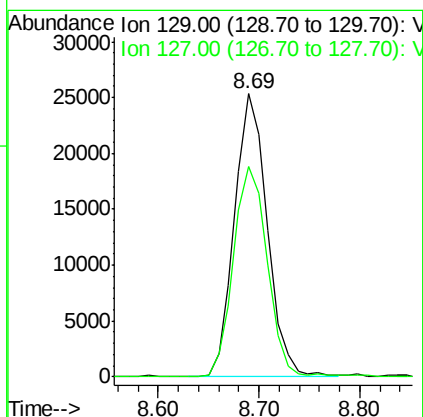
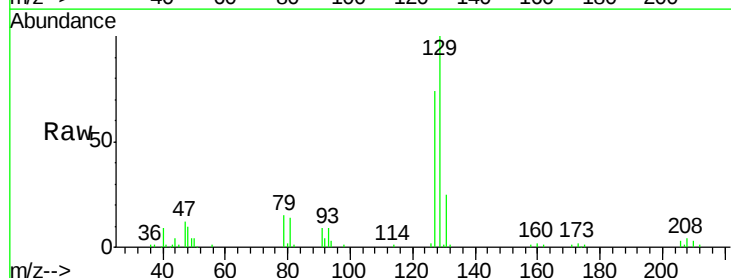
Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

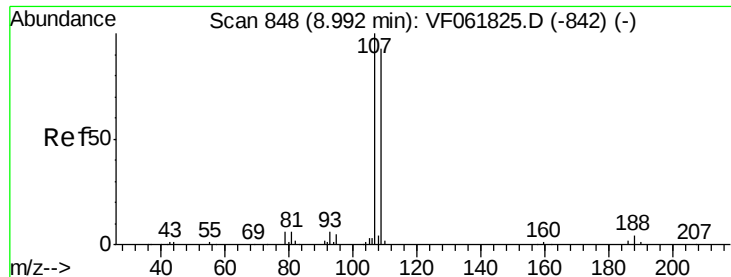
Tot Ion: 43 Resp: 123200
Ion Ratio Lower Upper
43 100
58 57.1 28.8 86.4



#60
Dibromochloromethane
Concen: 19.896 ug/l
RT: 8.69 min Scan# 817
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion: 129 Resp: 57418
Ion Ratio Lower Upper
129 100
127 74.2 38.2 114.6





#61

1,2-Dibromoethane

Concen: 19.868 ug/l

RT: 8.97 min Scan# 845

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

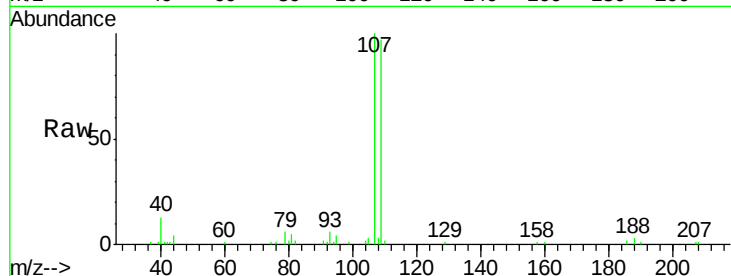
VF0308SBS01

Tot Ion:107 Resp: 44239

Ion Ratio Lower Upper

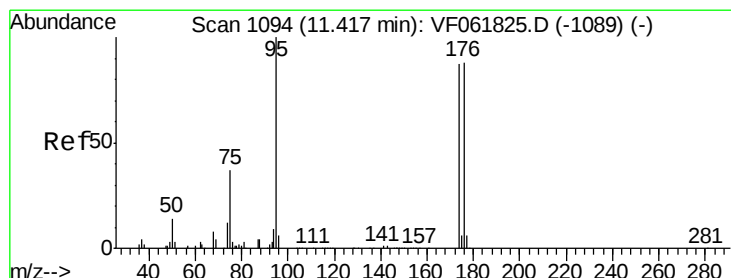
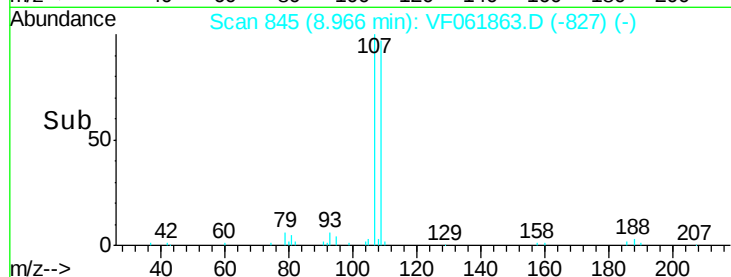
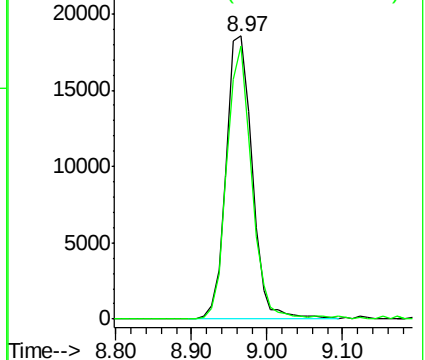
107 100

109 96.5 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 51.593 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

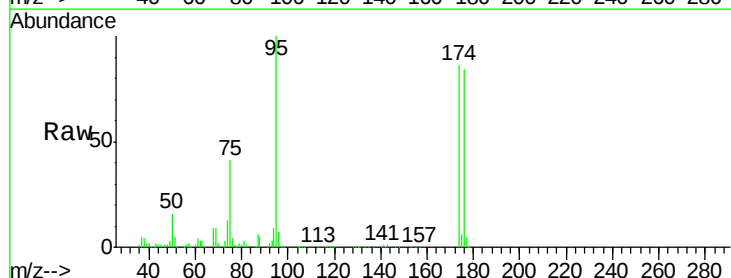
Tgt Ion: 95 Resp: 201694

Ion Ratio Lower Upper

95 100

174 85.9 0.0 174.0

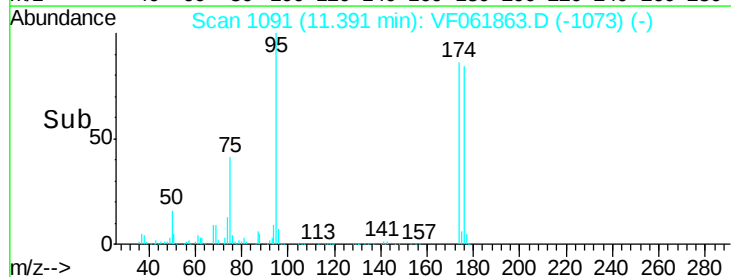
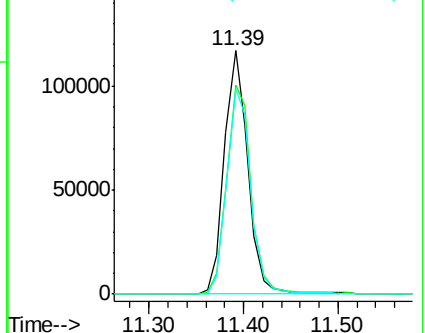
176 84.2 0.0 175.2

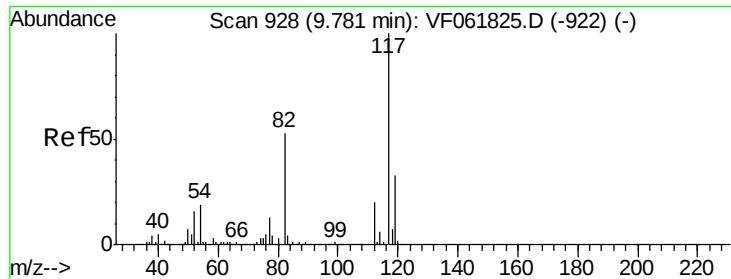


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

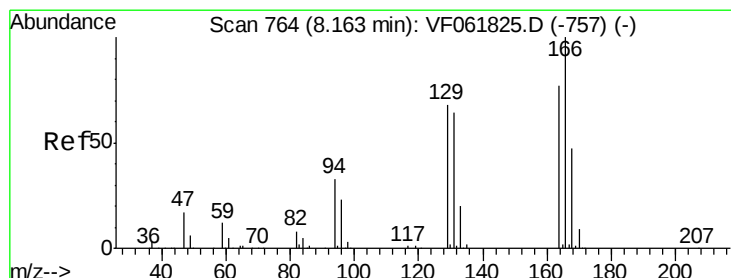
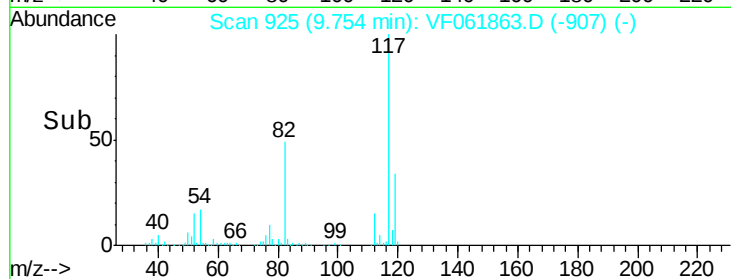
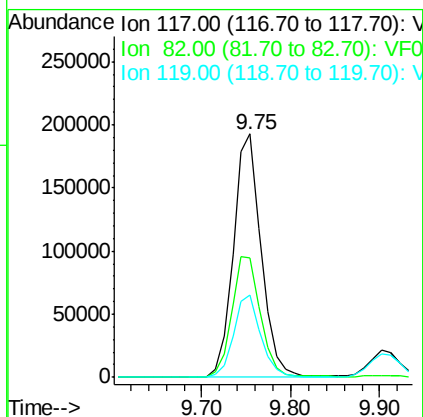
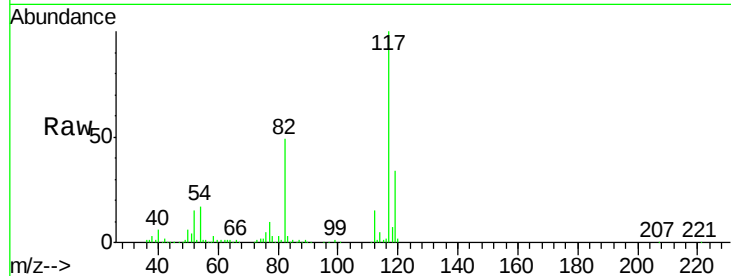




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

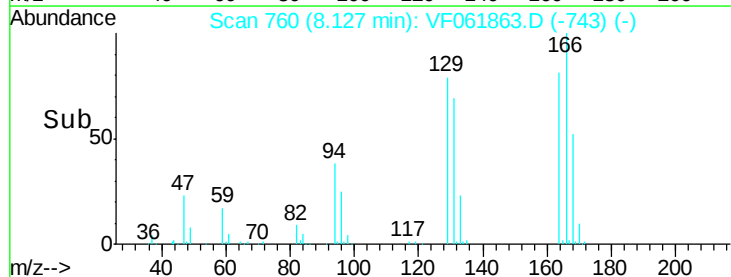
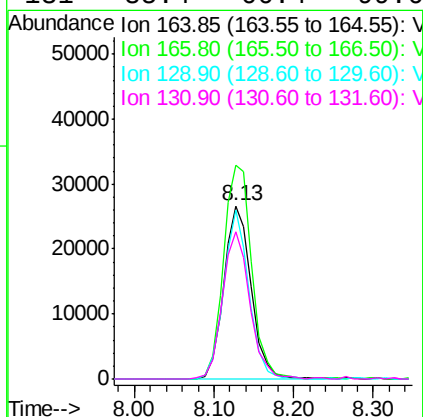
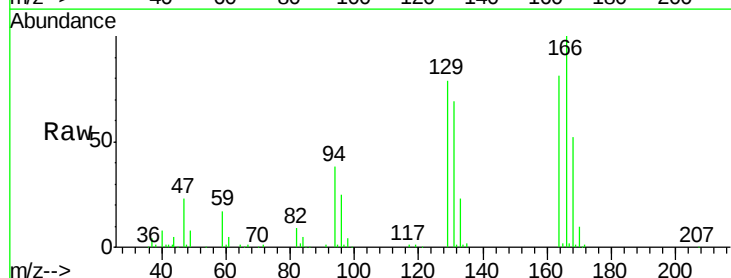
Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

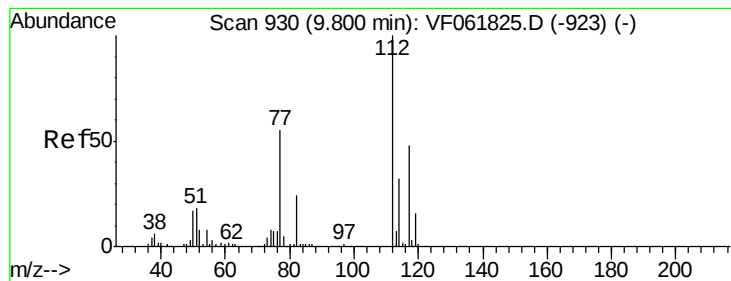
Tot Ion:117 Resp: 422170
Ion Ratio Lower Upper
117 100
82 49.2 42.6 63.8
119 33.7 26.0 39.0



#64
Tetrachloroethene
Concen: 19.803 ug/l
RT: 8.13 min Scan# 760
Delta R.T. -0.04 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion:164 Resp: 64239
Ion Ratio Lower Upper
164 100
166 123.4 103.4 155.0
129 97.5 69.9 104.9
131 85.4 66.4 99.6





#65

Chlorobenzene

Concen: 19.077 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

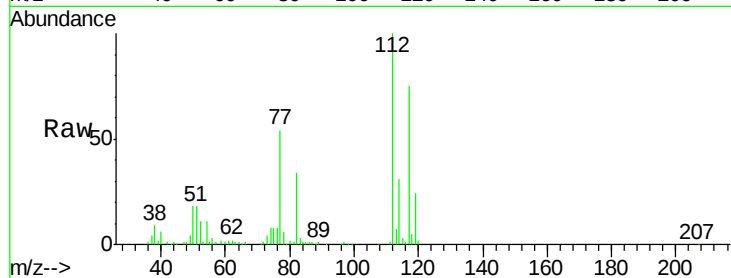
VF0308SBS01

Tot Ion:112 Resp: 154732

Ion Ratio Lower Upper

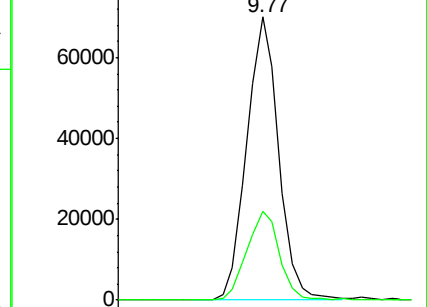
112 100

114 31.2 25.5 38.3

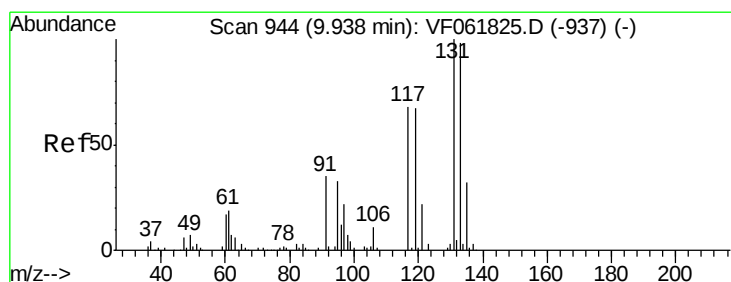
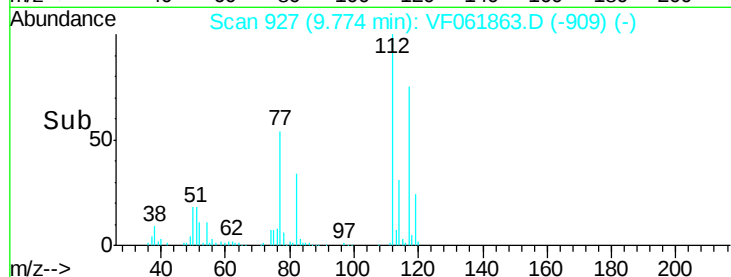


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 20.123 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

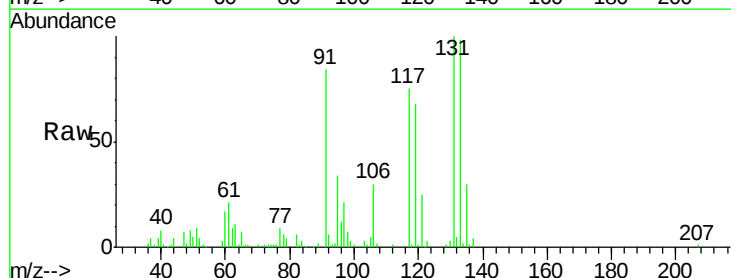
Tgt Ion:131 Resp: 63236

Ion Ratio Lower Upper

131 100

133 98.0 48.9 146.7

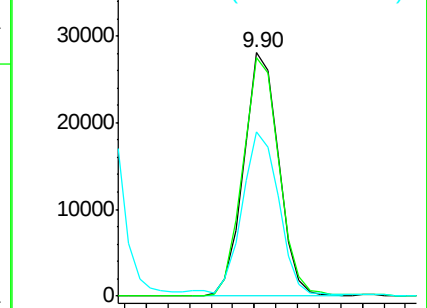
119 67.6 33.6 100.8



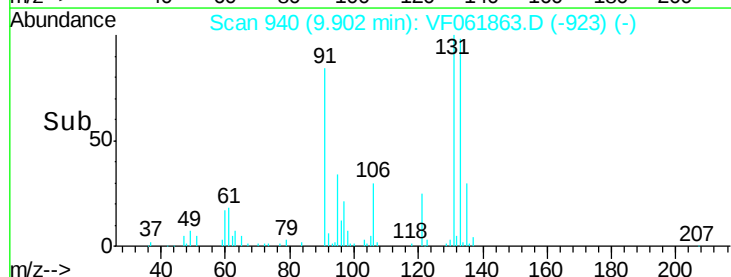
Abundance Ion 131.00 (130.70 to 131.70): V

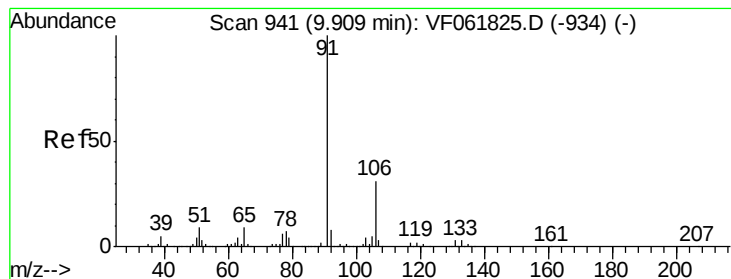
Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->





#67

Ethyl Benzene

Concen: 21.560 ug/l

RT: 9.87 min Scan# 937

Delta R.T. -0.04 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

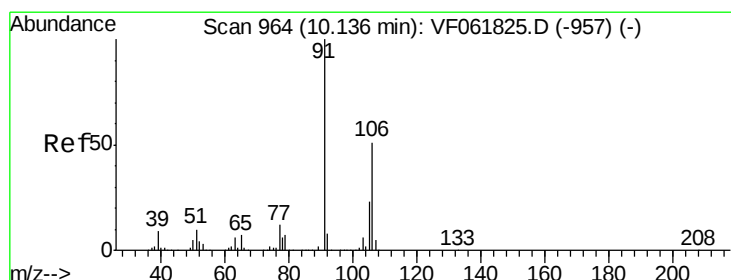
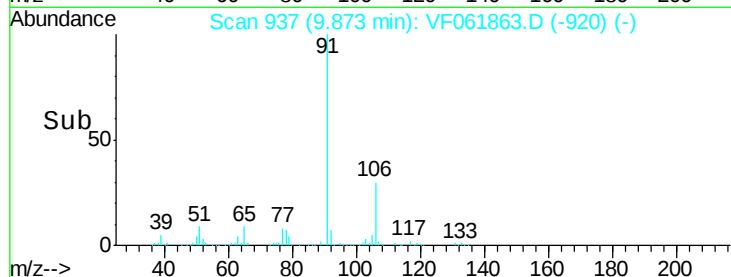
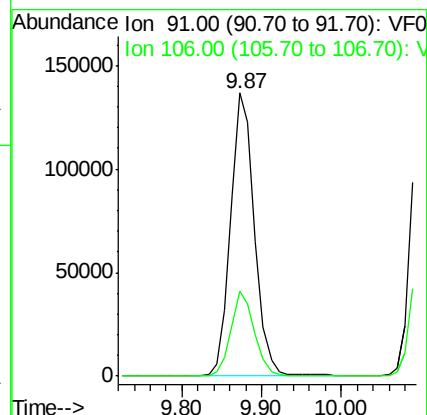
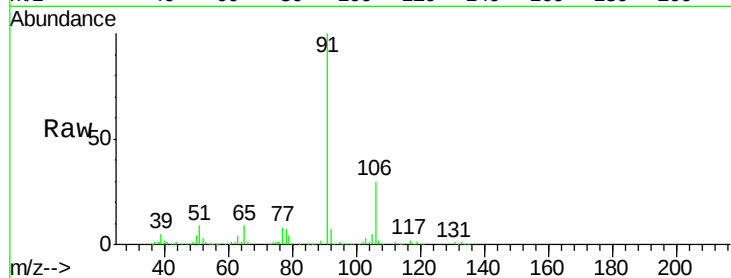
VF0308SBS01

Tot Ion: 91 Resp: 289841

Ion Ratio Lower Upper

91 100

106 29.8 25.0 37.4



#68

m/p-Xylenes

Concen: 42.708 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.03 min

Lab File: VF061863.D

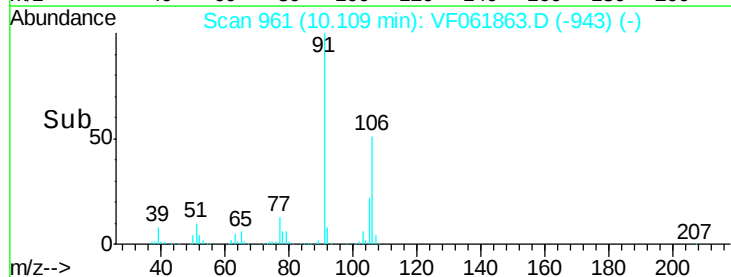
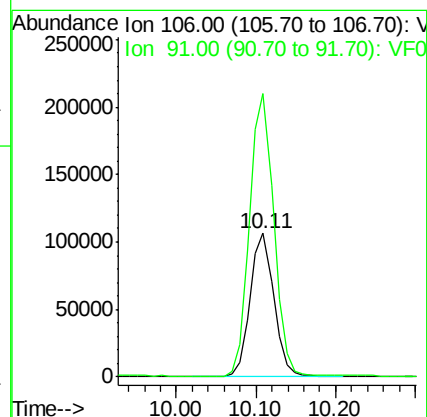
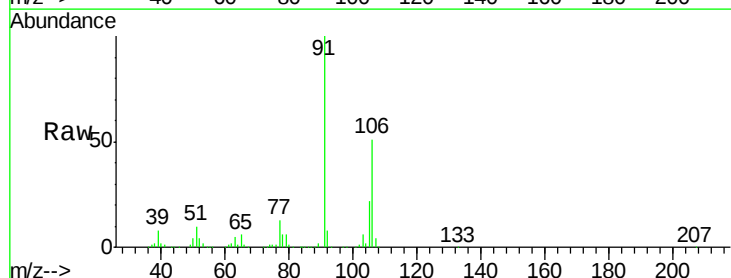
Acq: 8 Mar 2019 15:26

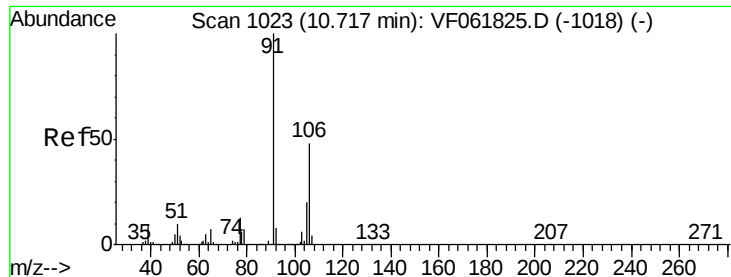
Tgt Ion: 106 Resp: 219943

Ion Ratio Lower Upper

106 100

91 197.4 157.5 236.3

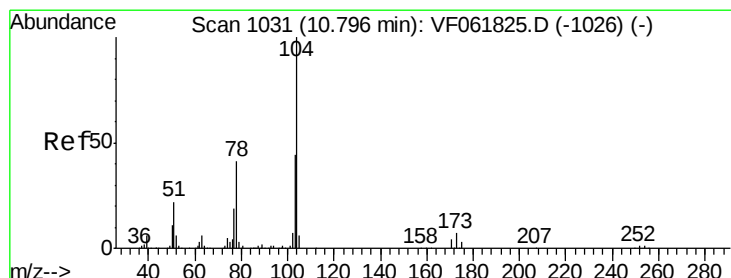
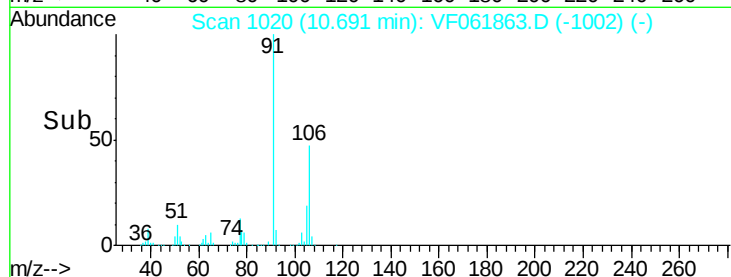
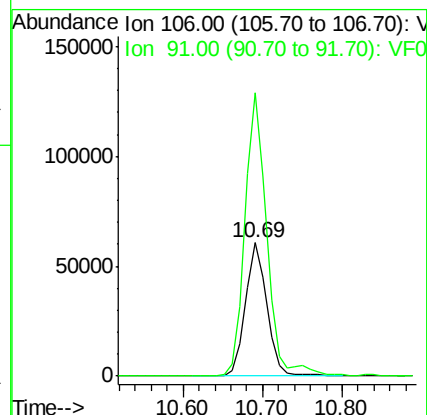
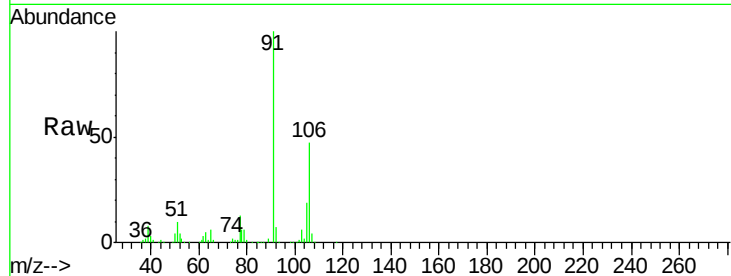




#69
o-Xylene
Concen: 20.435 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

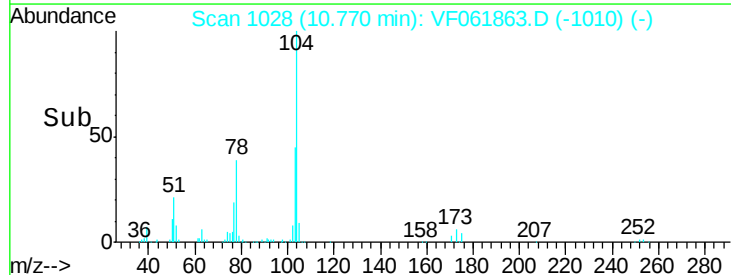
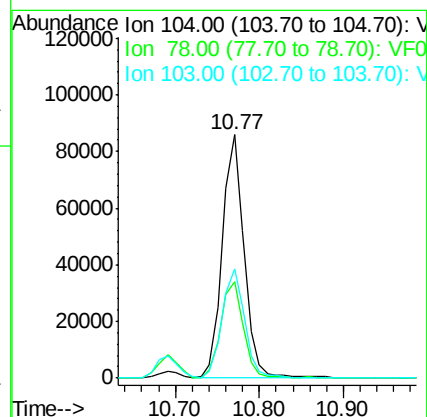
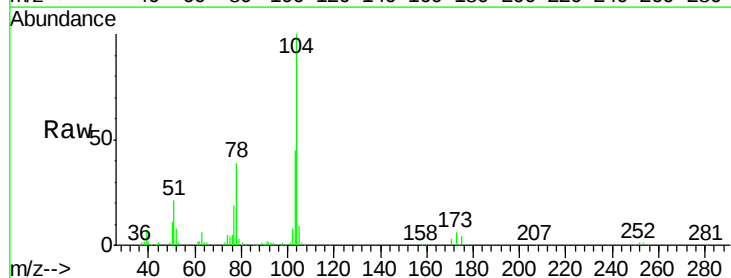
Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

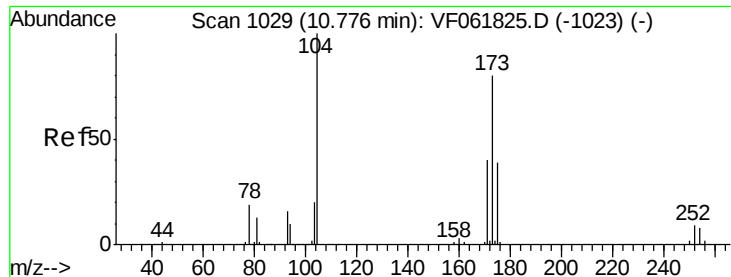
Tot Ion:106 Resp: 113325
Ion Ratio Lower Upper
106 100
91 212.6 103.5 310.3



#70
Styrene
Concen: 19.830 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion:104 Resp: 154759
Ion Ratio Lower Upper
104 100
78 39.5 33.3 49.9
103 44.7 35.4 53.0





#71

Bromoform

Concen: 19.550 ug/l

RT: 10.75 min Scan# 1026

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

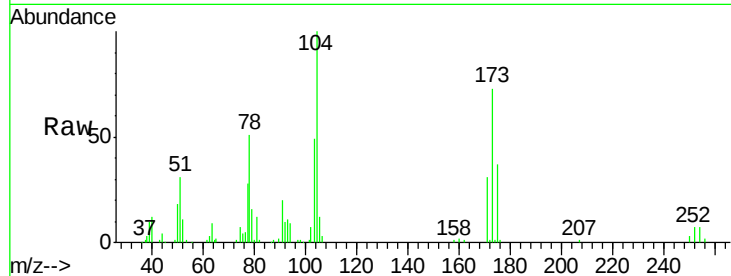
Tot Ion:173 Resp: 32469

Ion Ratio Lower Upper

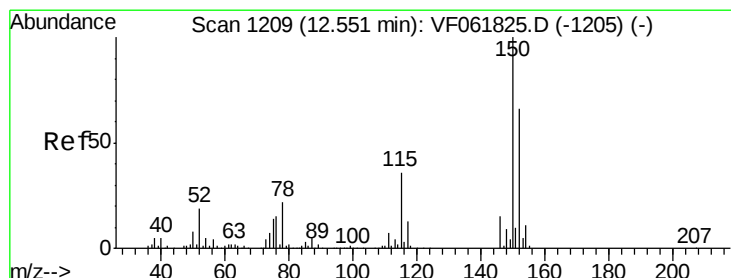
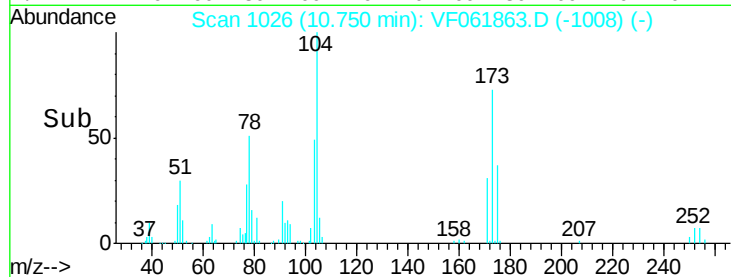
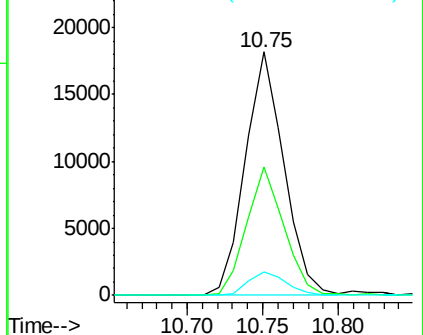
173 100

175 52.9 24.5 73.5

254 9.6 8.0 12.0



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: 12.54 min Scan# 1207

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

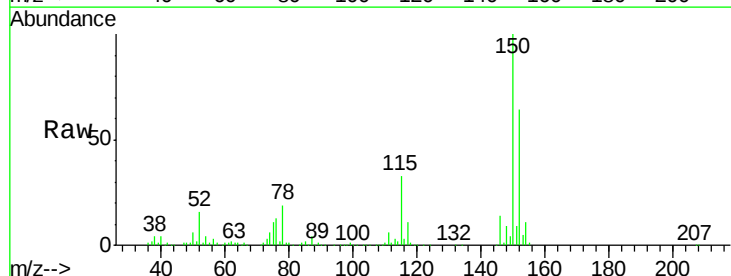
Tgt Ion:152 Resp: 237025

Ion Ratio Lower Upper

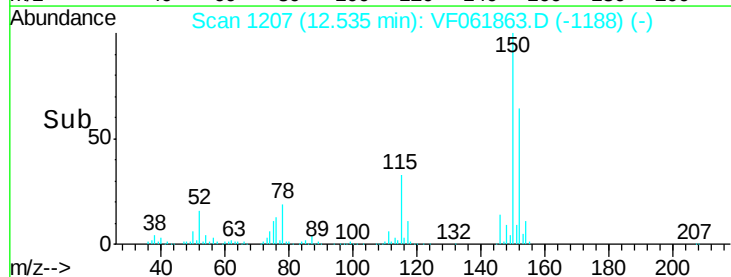
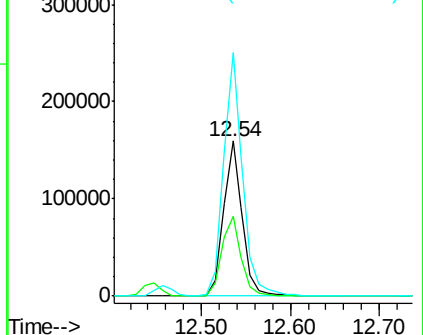
152 100

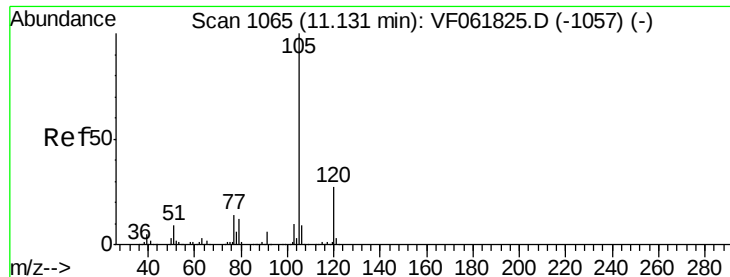
115 51.4 27.7 83.1

150 156.8 0.0 304.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 19.927 ug/l

RT: 11.11 min Scan# 1062

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

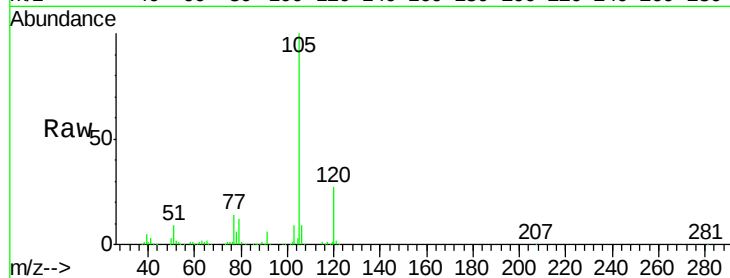
VF0308SBS01

Tot Ion:105 Resp: 325164

Ion Ratio Lower Upper

105 100

120 27.2 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.11

200000

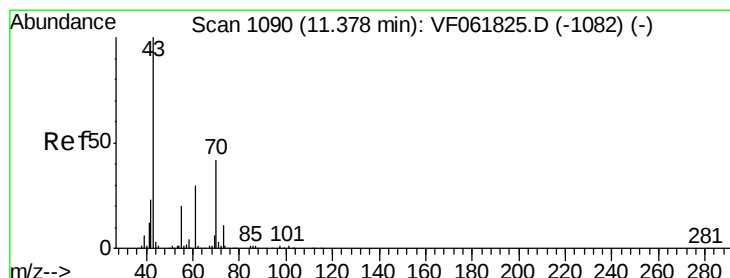
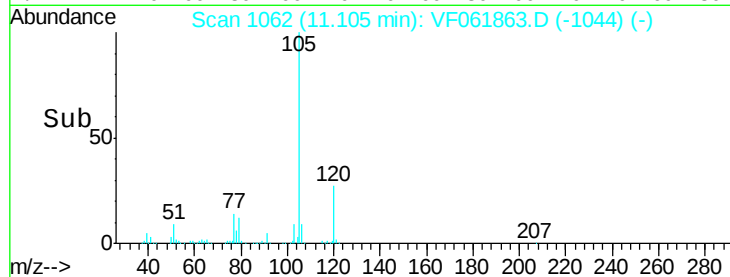
150000

100000

50000

0

Time--> 11.00 11.20



#74

N-ethyl acetate

Concen: 18.624 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Tgt Ion: 43 Resp: 69963

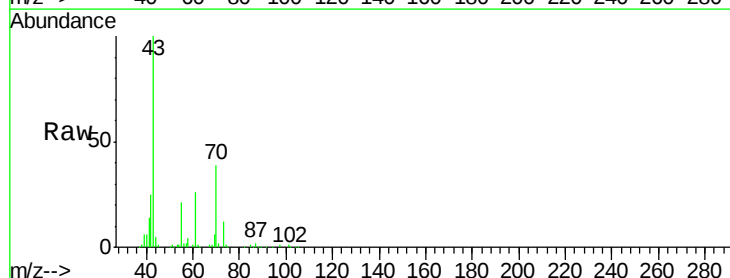
Ion Ratio Lower Upper

43 100

70 39.0 33.4 50.0

55 21.2 16.3 24.5

61 25.6 24.0 36.0



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

60000

50000

40000

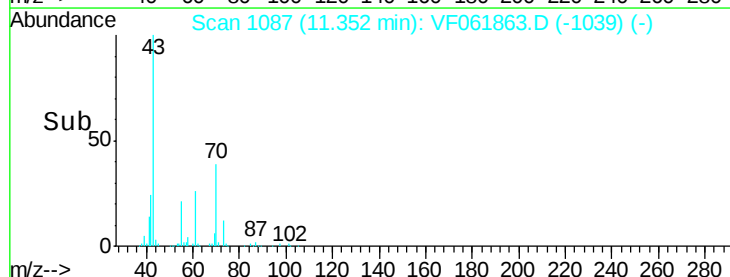
30000

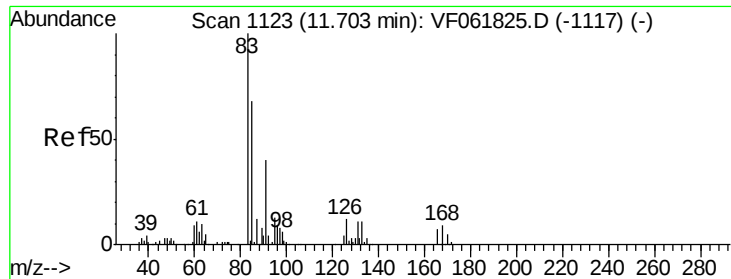
20000

10000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 18.424 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

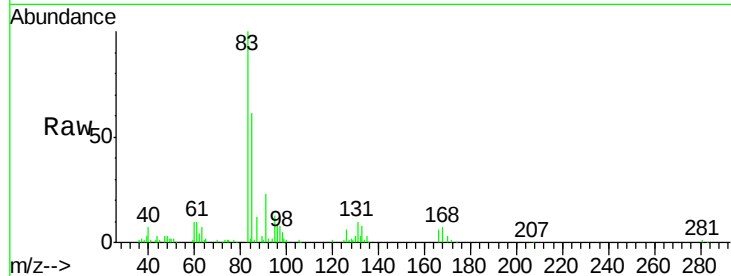
Tot Ion: 83 Resp: 49968

Ion Ratio Lower Upper

83 100

131 9.5 5.5 16.7

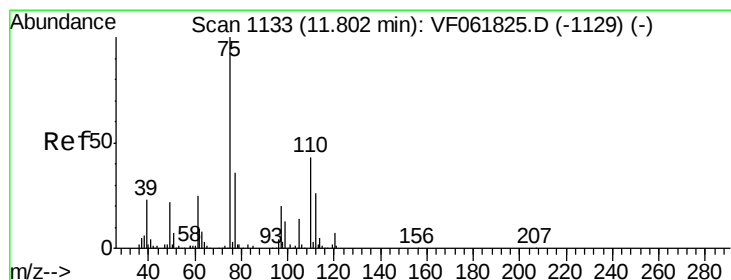
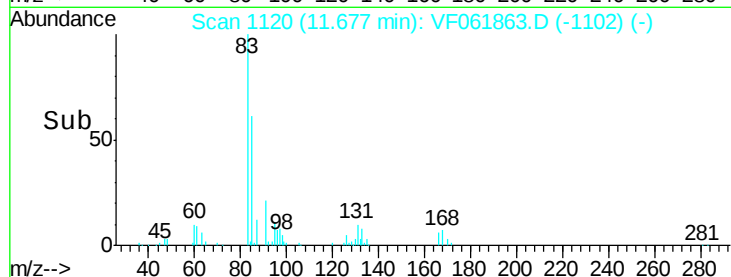
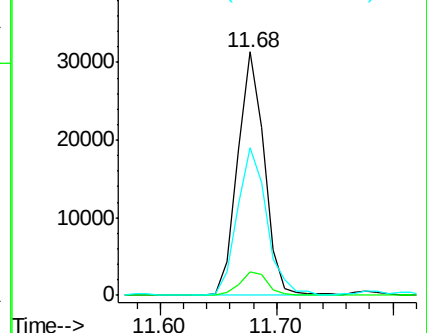
85 60.6 34.2 102.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 18.531 ug/l

RT: 11.78 min Scan# 1130

Delta R.T. -0.03 min

Lab File: VF061863.D

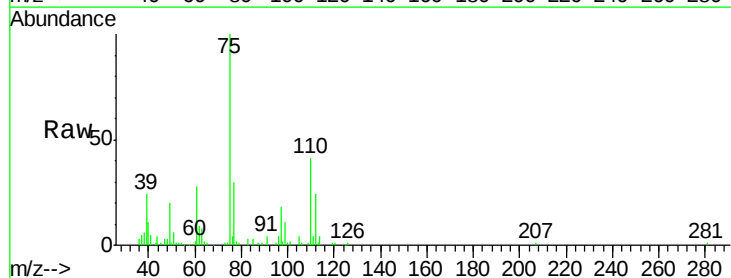
Acq: 8 Mar 2019 15:26

Tgt Ion: 75 Resp: 34301

Ion Ratio Lower Upper

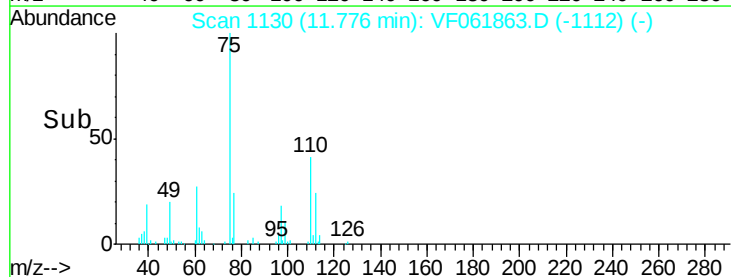
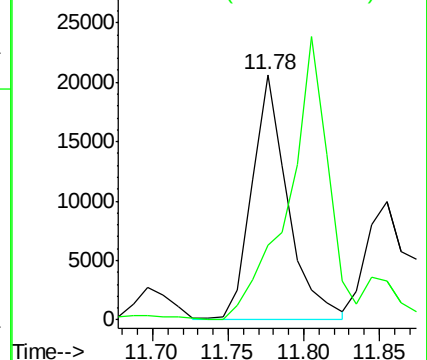
75 100

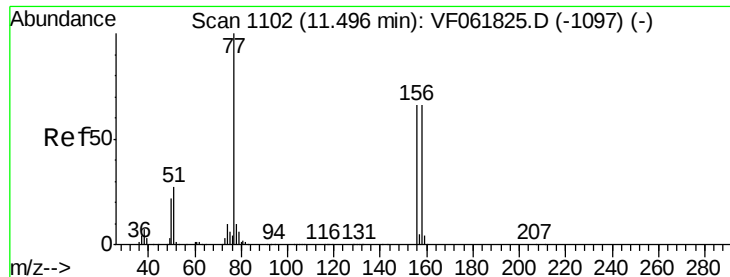
77 30.4 18.1 54.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 19.334 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

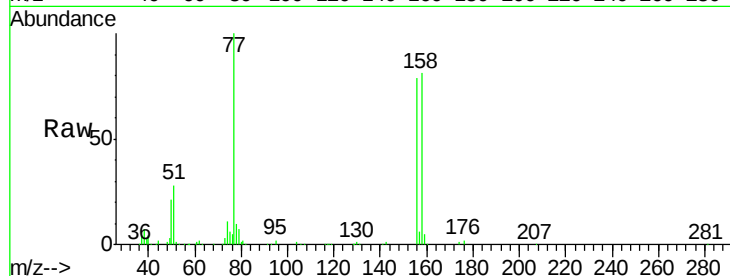
Tot Ion:156 Resp: 75929

Ion Ratio Lower Upper

156 100

77 126.1 75.7 227.1

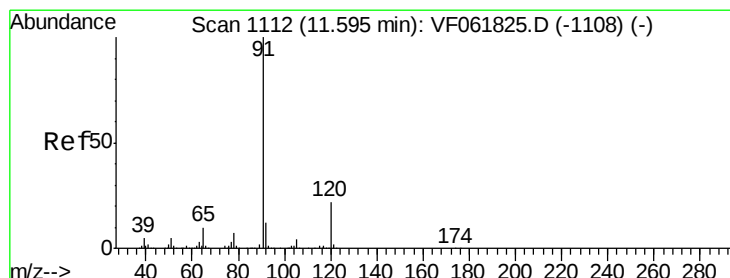
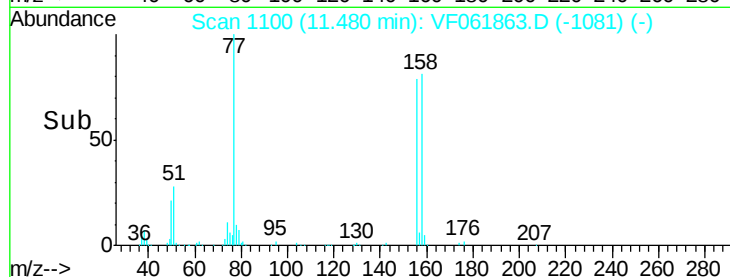
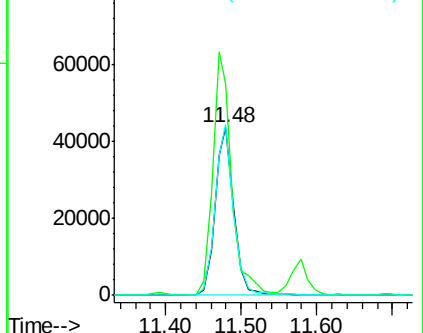
158 101.6 50.0 150.1



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: 19.896 ug/l

RT: 11.58 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VF061863.D

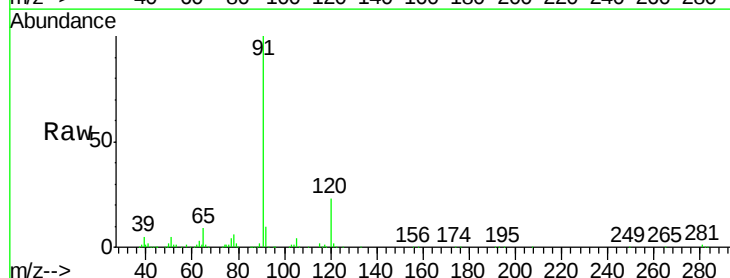
Acq: 8 Mar 2019 15:26

Tgt Ion: 91 Resp: 366637

Ion Ratio Lower Upper

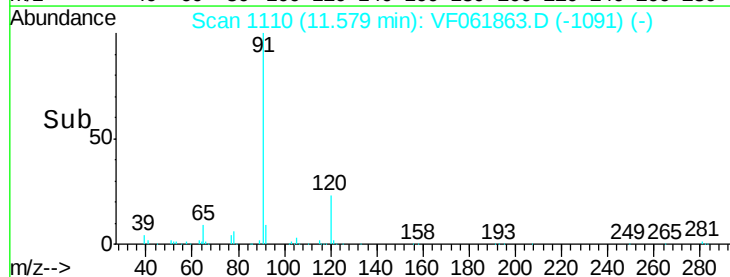
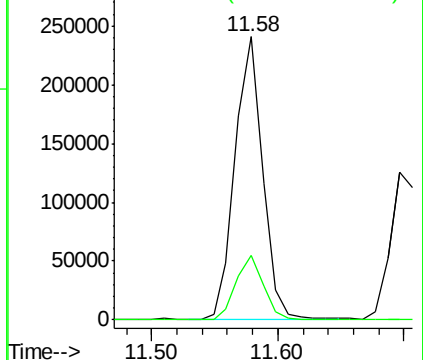
91 100

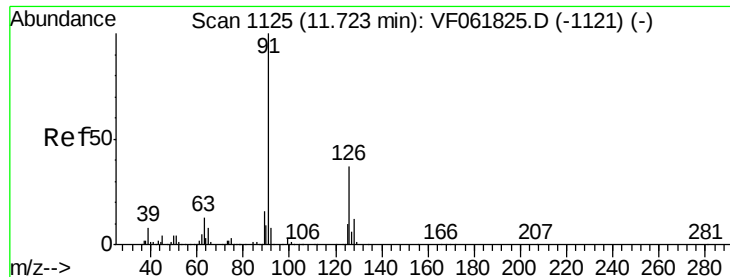
120 22.6 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.603 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

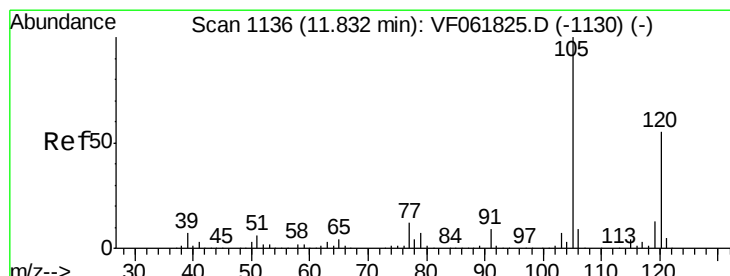
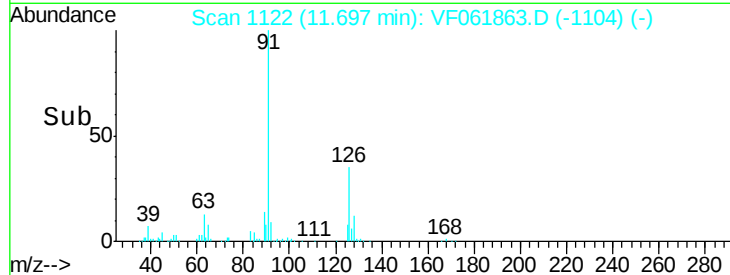
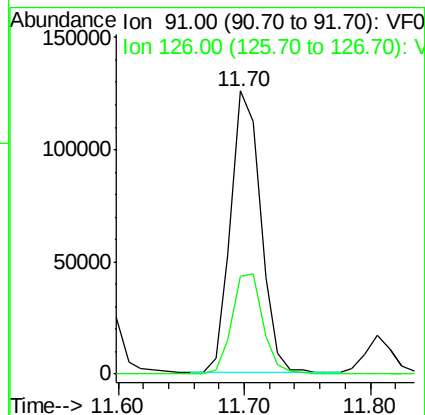
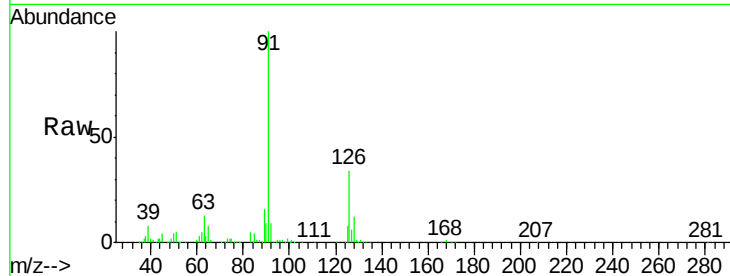
VF0308SBS01

Tot Ion: 91 Resp: 206525

Ion Ratio Lower Upper

91 100

126 34.4 18.1 54.4



#80

1,3,5-Trimethylbenzene

Concen: 20.056 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.03 min

Lab File: VF061863.D

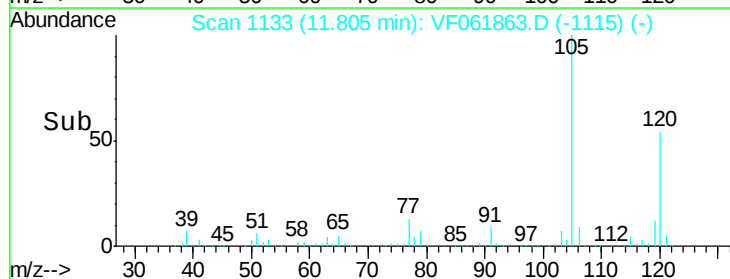
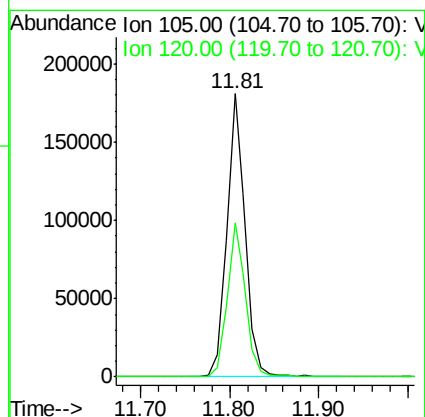
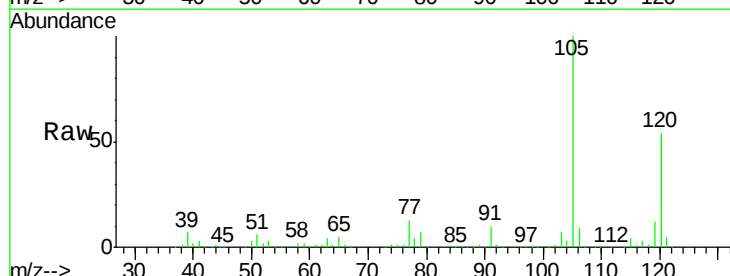
Acq: 8 Mar 2019 15:26

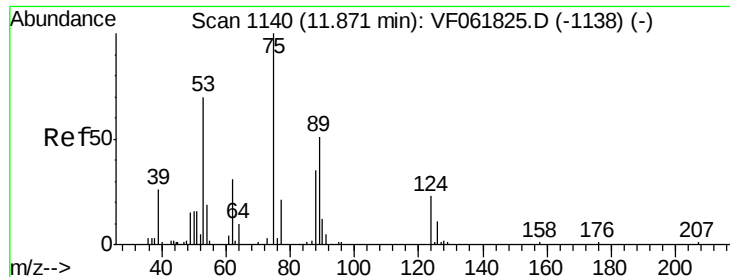
Tgt Ion:105 Resp: 262761

Ion Ratio Lower Upper

105 100

120 54.4 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 27.139 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

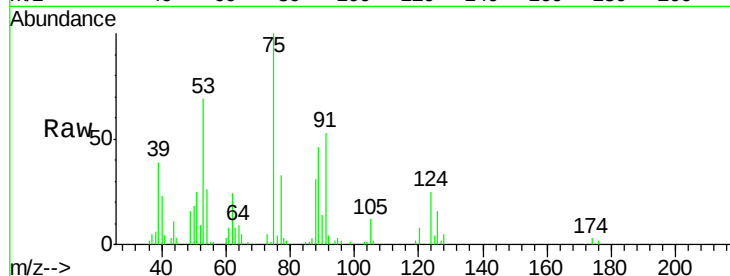
Tot Ion: 75 Resp: 22971

Ion Ratio Lower Upper

75 100

53 69.3 58.6 88.0

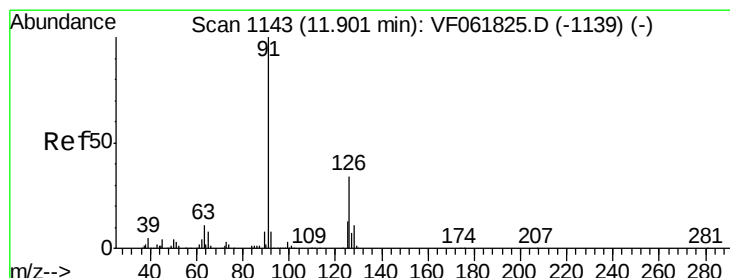
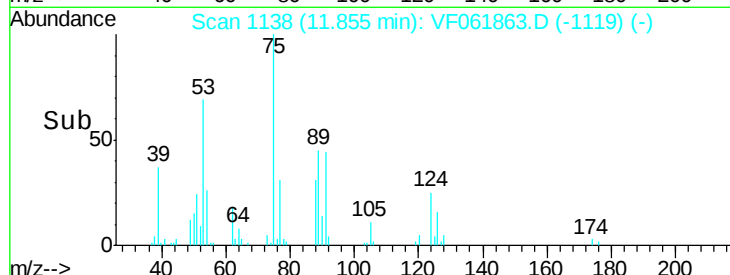
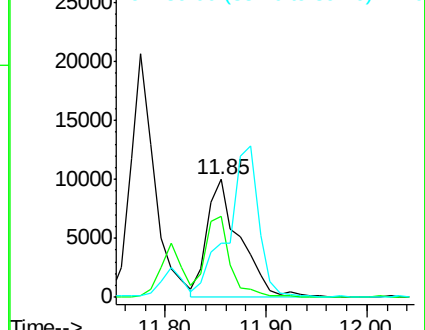
89 46.3 41.4 62.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 20.770 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VF061863.D

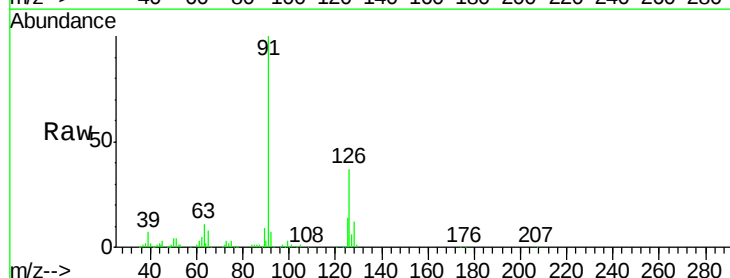
Acq: 8 Mar 2019 15:26

Tgt Ion: 91 Resp: 223814

Ion Ratio Lower Upper

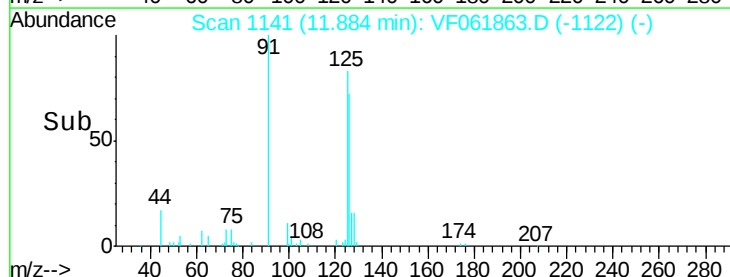
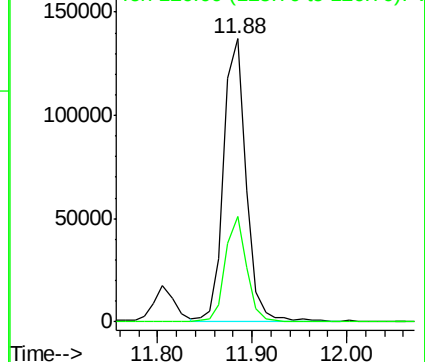
91 100

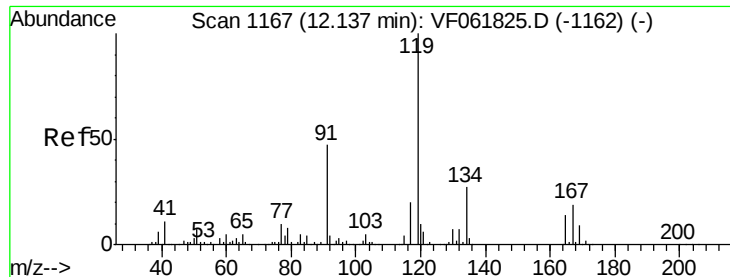
126 37.4 17.0 50.9



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

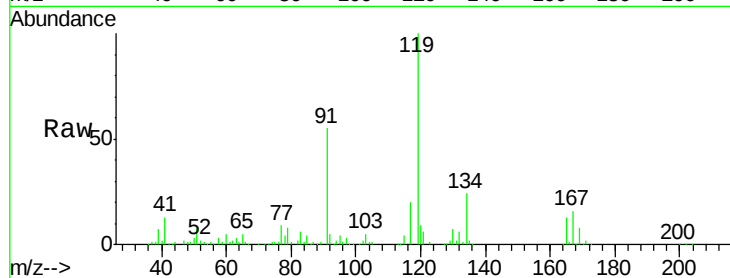




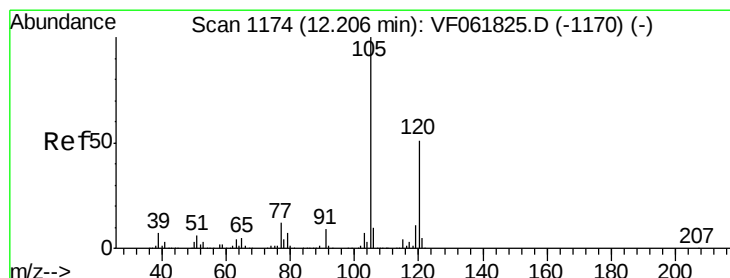
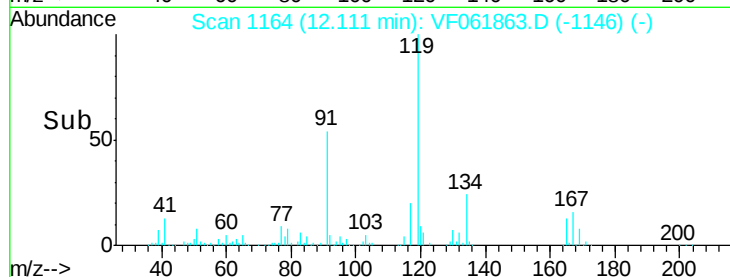
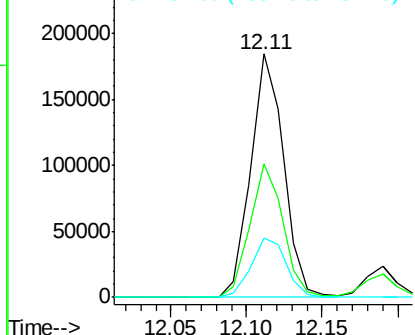
#83
tert-Butylbenzene
Concen: 20.243 ug/l
RT: 12.11 min Scan# 1164
Delta R.T. -0.03 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Instrument :
MSVOA_F
ClientSampleId :
VF0308SBS01

Tot Ion:119 Resp: 281614
Ion Ratio Lower Upper
119 100
91 54.7 23.5 70.5
134 24.4 13.3 39.8

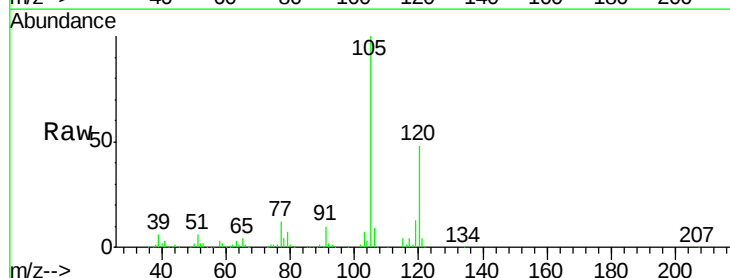


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

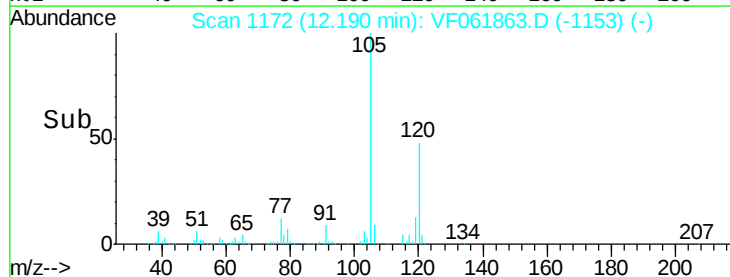
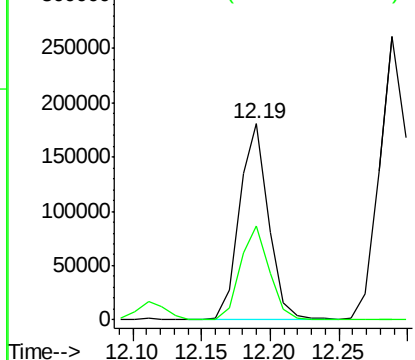


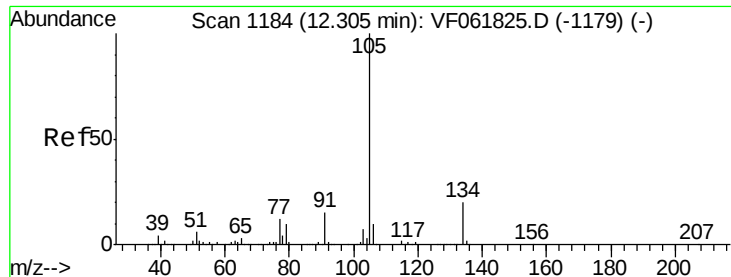
#84
1,2,4-Trimethylbenzene
Concen: 20.586 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.02 min
Lab File: VF061863.D
Acq: 8 Mar 2019 15:26

Tgt Ion:105 Resp: 264385
Ion Ratio Lower Upper
105 100
120 48.1 25.8 77.4



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





#85

sec-Butylbenzene

Concen: 20.966 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

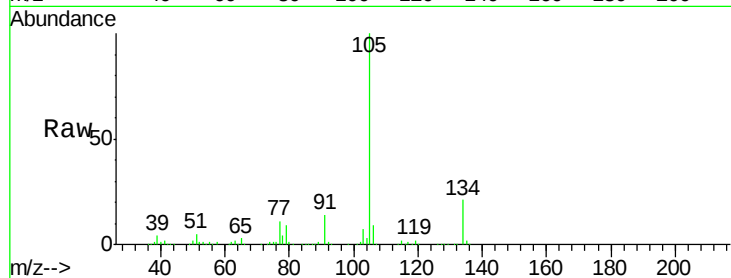
VF0308SBS01

Tot Ion:105 Resp: 379564

Ion Ratio Lower Upper

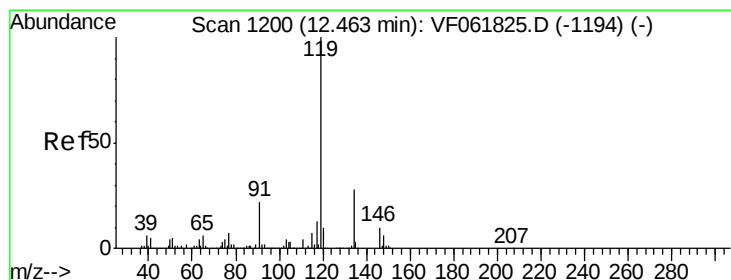
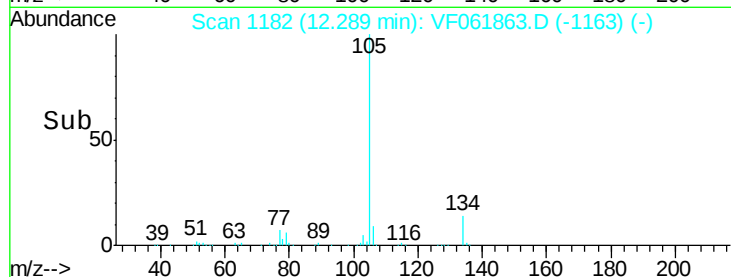
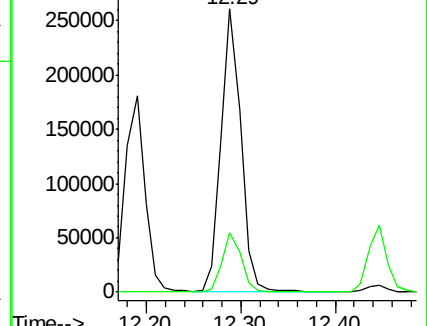
105 100

134 21.1 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.838 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

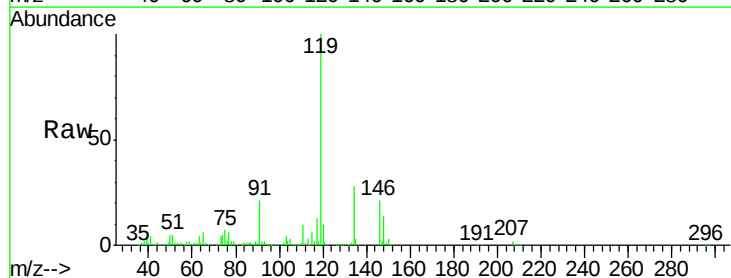
Tgt Ion:119 Resp: 320664

Ion Ratio Lower Upper

119 100

134 27.7 14.0 42.0

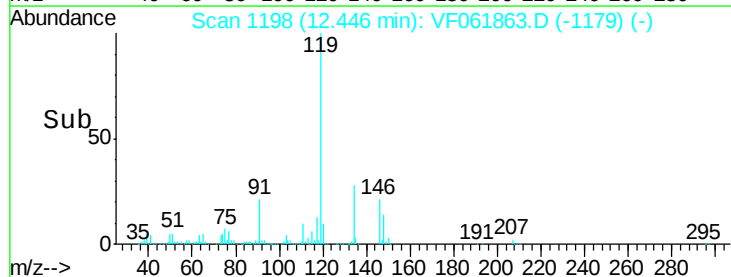
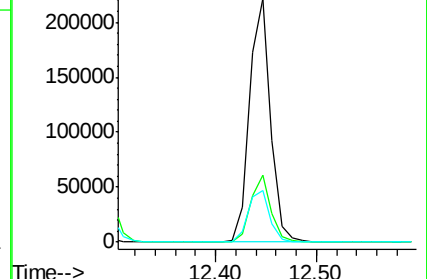
91 21.3 11.1 33.3

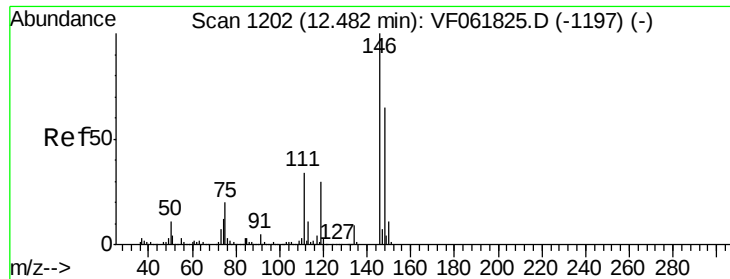


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

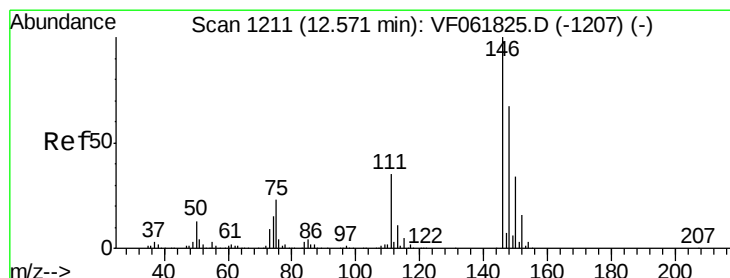
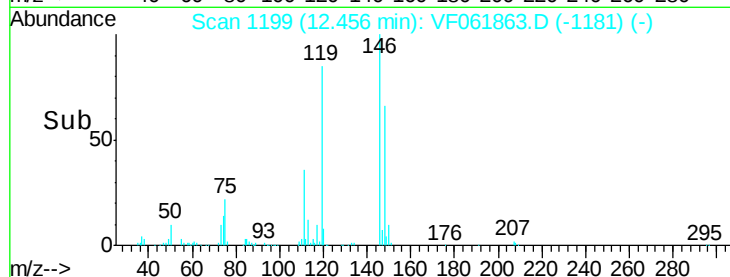
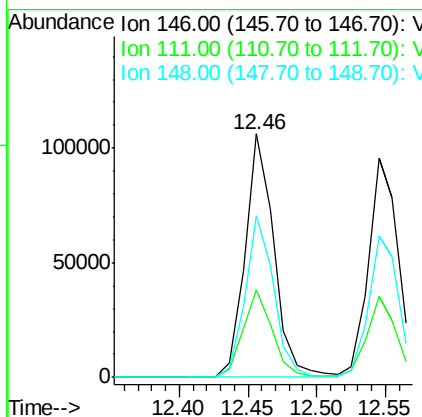
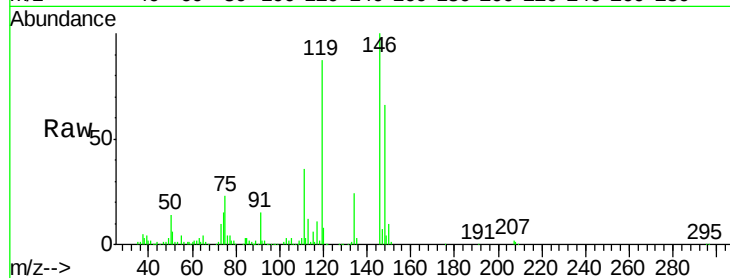




#87
 1,3-Dichlorobenzene
 Concen: 20.892 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.03 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

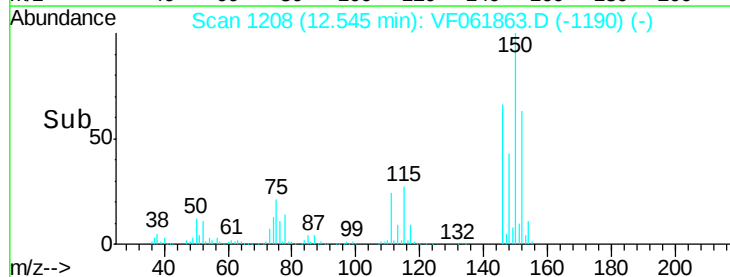
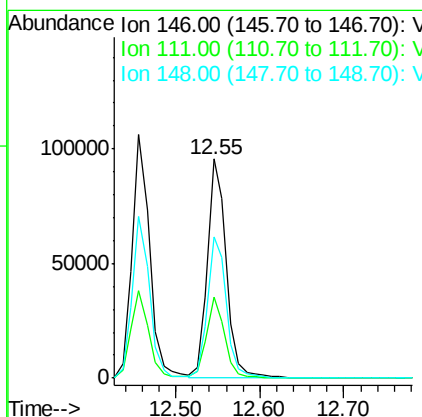
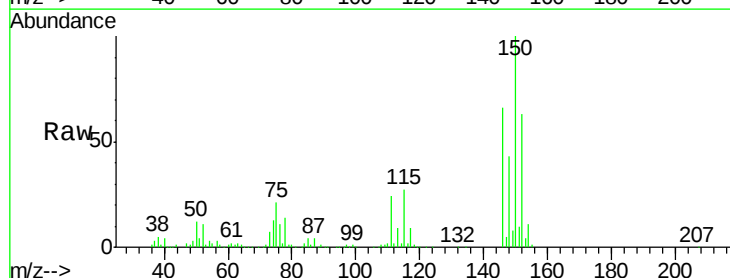
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

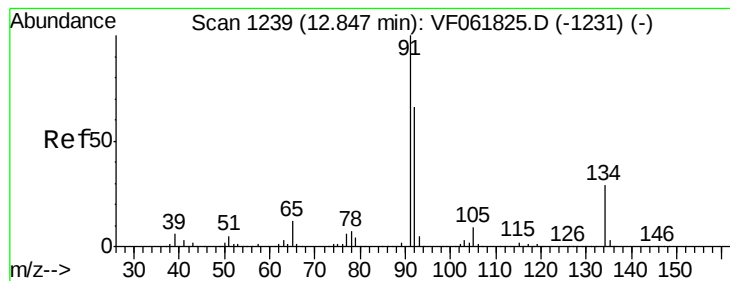
Tot Ion:146 Resp: 155794
 Ion Ratio Lower Upper
 146 100
 111 35.9 17.0 51.0
 148 66.2 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: 20.627 ug/l
 RT: 12.55 min Scan# 1208
 Delta R.T. -0.03 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Tgt Ion:146 Resp: 148377
 Ion Ratio Lower Upper
 146 100
 111 36.8 17.6 52.9
 148 64.5 33.5 100.4





#89

n-Butylbenzene

Concen: 20.449 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

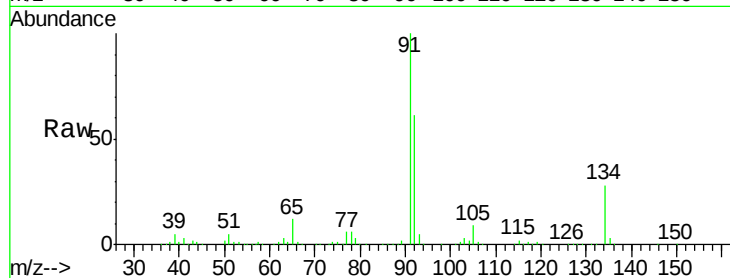
Tot Ion: 91 Resp: 300735

Ion Ratio Lower Upper

91 100

92 61.0 32.9 98.6

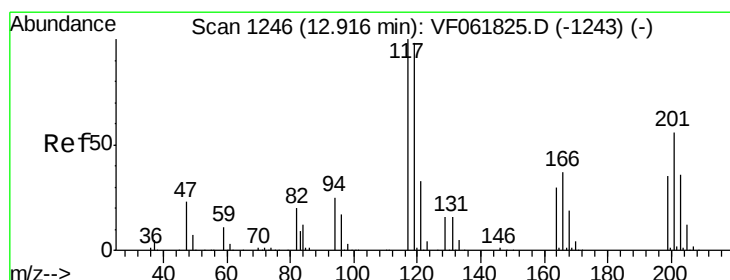
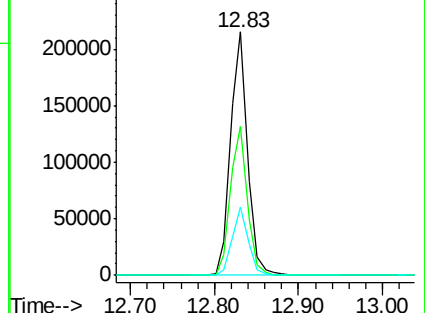
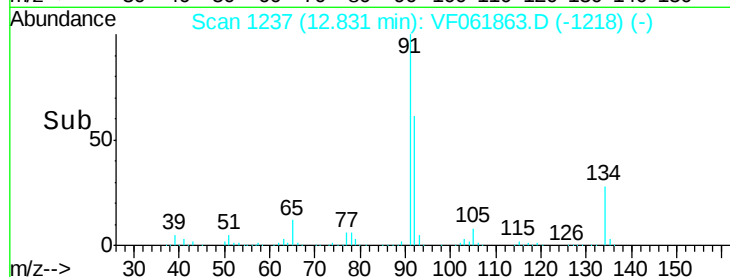
134 28.1 14.5 43.6



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: 19.509 ug/l

RT: 12.90 min Scan# 1244

Delta R.T. -0.02 min

Lab File: VF061863.D

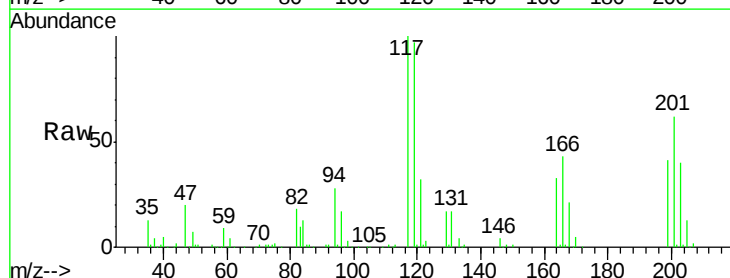
Acq: 8 Mar 2019 15:26

Tgt Ion: 117 Resp: 72260

Ion Ratio Lower Upper

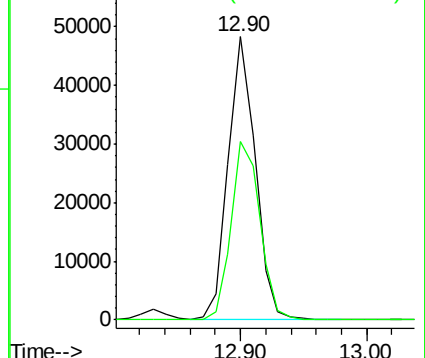
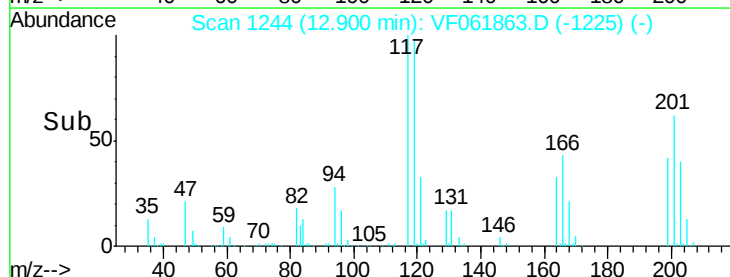
117 100

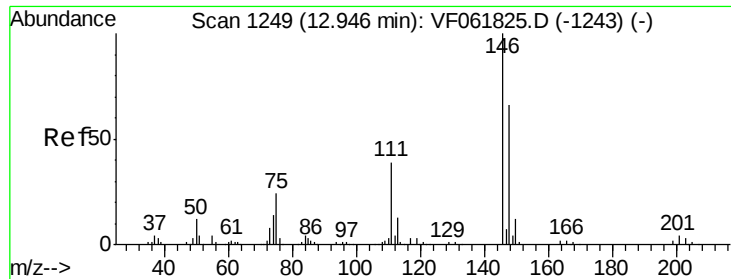
201 62.9 27.8 83.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 20.167 ug/l

RT: 12.93 min Scan# 1247

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

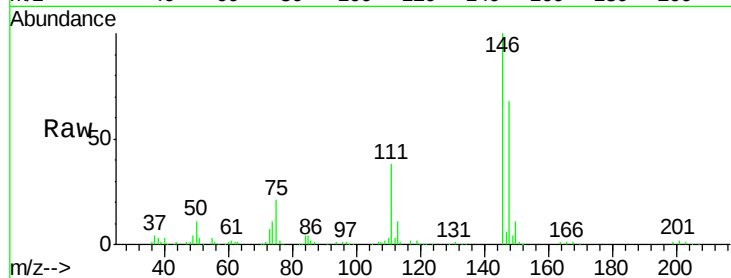
Tot Ion:146 Resp: 142482

Ion Ratio Lower Upper

146 100

111 38.3 19.4 58.4

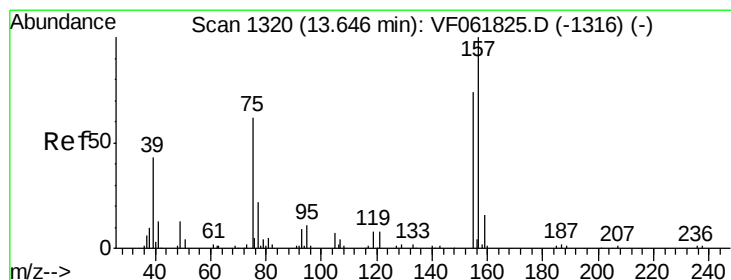
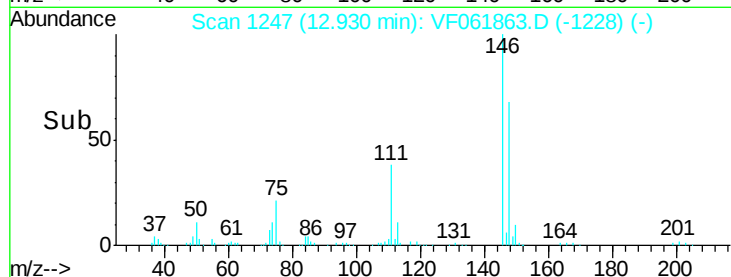
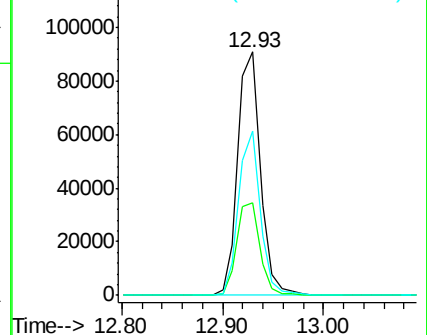
148 67.7 33.0 98.9



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: 19.412 ug/l

RT: 13.63 min Scan# 1318

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

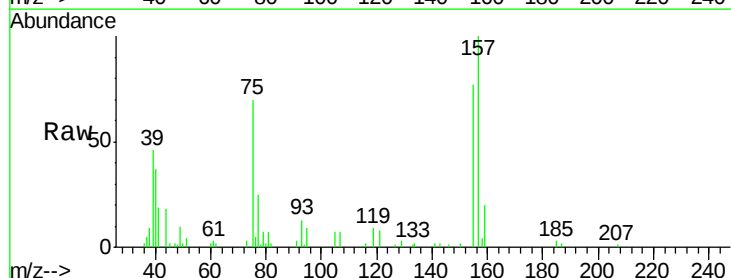
Tgt Ion: 75 Resp: 7968

Ion Ratio Lower Upper

75 100

155 110.2 59.8 179.4

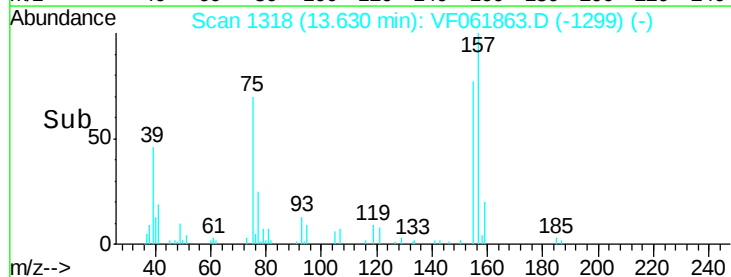
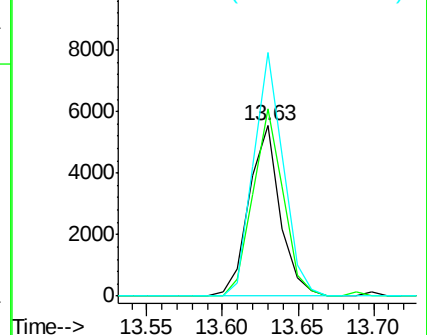
157 143.0 81.2 243.4

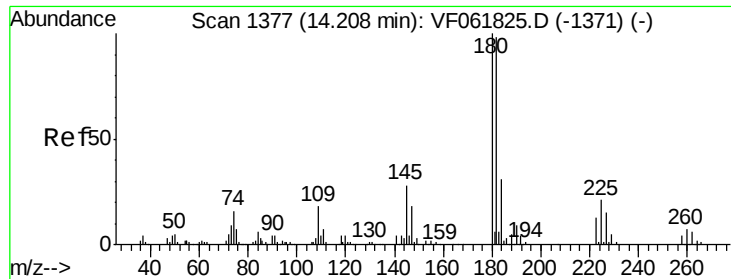


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

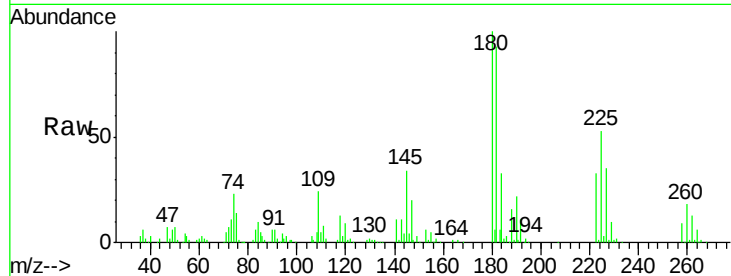




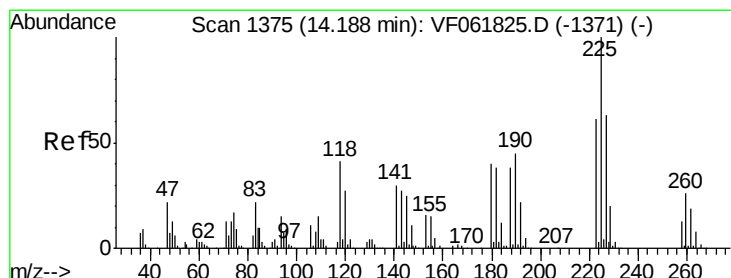
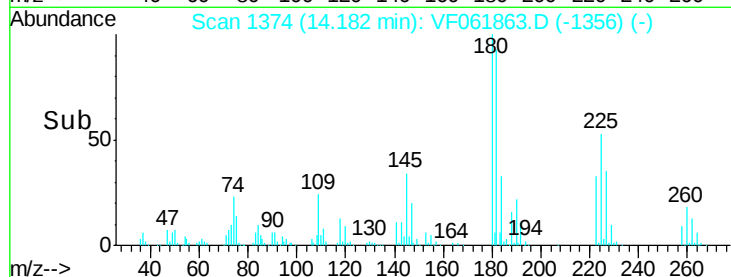
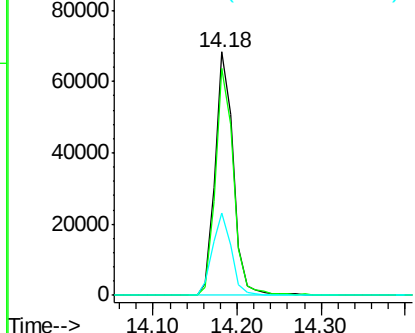
#93
 1,2,4-Trichlorobenzene
 Concen: 20.707 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.03 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0308SBS01

Tot Ion:180 Resp: 102563
 Ion Ratio Lower Upper
 180 100
 182 93.4 49.0 147.2
 145 33.6 14.1 42.4

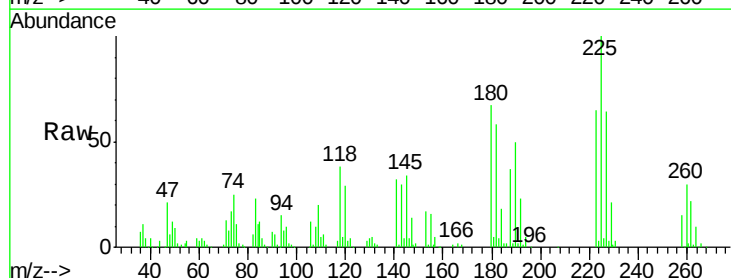


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

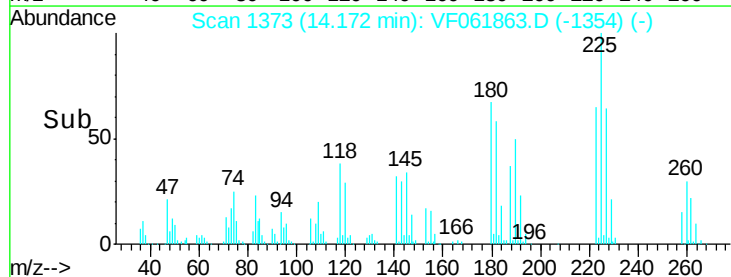
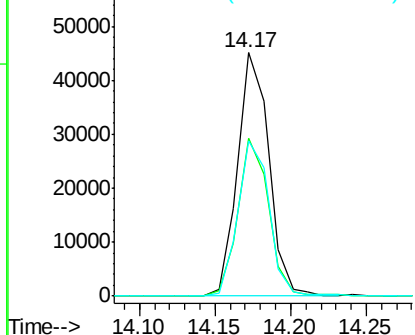


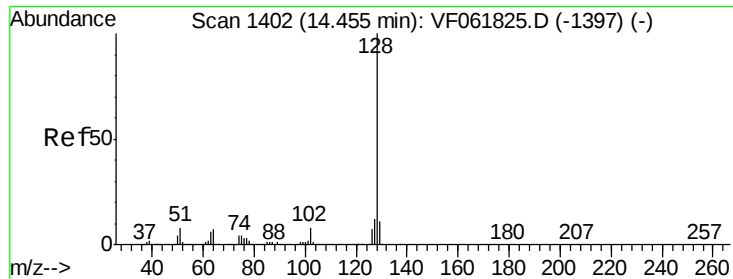
#94
 Hexachlorobutadiene
 Concen: 18.897 ug/l
 RT: 14.17 min Scan# 1373
 Delta R.T. -0.02 min
 Lab File: VF061863.D
 Acq: 8 Mar 2019 15:26

Tgt Ion:225 Resp: 64795
 Ion Ratio Lower Upper
 225 100
 223 64.9 30.3 90.9
 227 63.6 31.3 93.8



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





#95

Naphthalene

Concen: 18.679 ug/l

RT: 14.44 min Scan# 1400

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

Instrument :

MSVOA_F

ClientSampleId :

VF0308SBS01

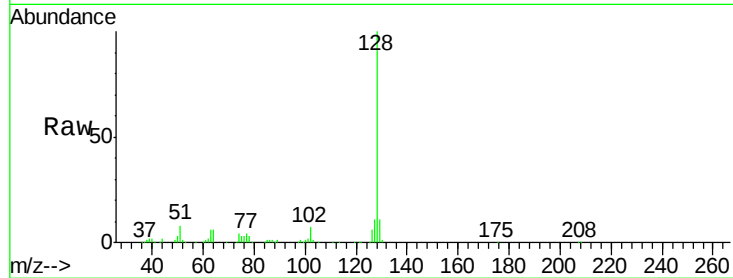
Tot Ion:128 Resp: 164786

Ion Ratio Lower Upper

128 100

127 11.1 9.3 13.9

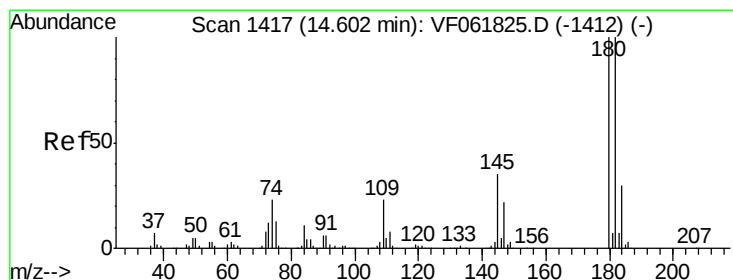
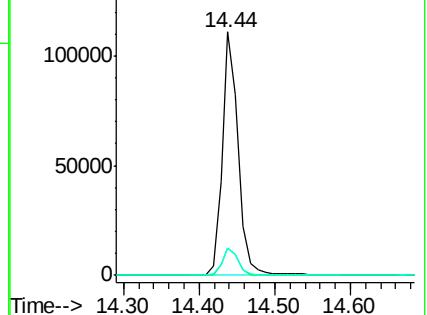
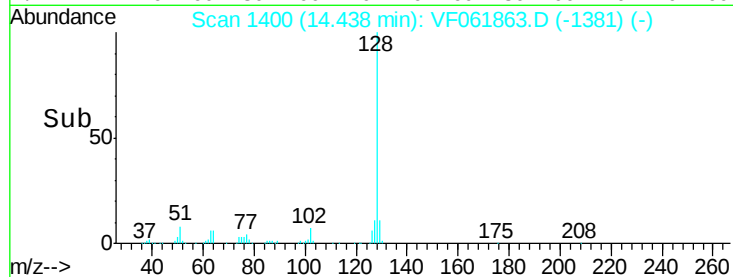
129 11.2 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 19.609 ug/l

RT: 14.59 min Scan# 1415

Delta R.T. -0.02 min

Lab File: VF061863.D

Acq: 8 Mar 2019 15:26

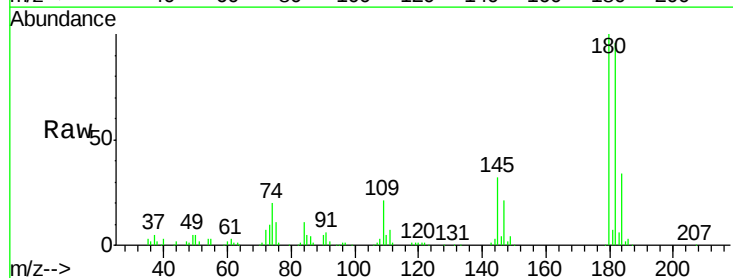
Tgt Ion:180 Resp: 89677

Ion Ratio Lower Upper

180 100

182 96.0 50.2 150.7

145 32.5 17.5 52.5



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

