

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042219\
 Data File : VF062243.D
 Acq On : 22 Apr 2019 14:31
 Operator : FY/SY
 Sample : VF0422SBSD01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBSD01

Quant Time: Apr 23 01:10:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 23:52:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	438618	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	573416	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	448607	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	251726	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	205995	51.22	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	102.44%	
35) Dibromofluoromethane	4.32	113	269793	53.79	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	107.58%	
50) Toluene-d8	7.72	98	643620	50.69	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.50	95	257477	52.71	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	105.42%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	139005	20.854	ug/l	99
3) Chloromethane	1.14	50	122575	17.791	ug/l	99
4) Vinyl Chloride	1.19	62	112473	19.002	ug/l	96
5) Bromomethane	1.39	94	67759	19.706	ug/l	88
6) Chloroethane	1.45	64	50433	20.381	ug/l	94
7) Trichlorofluoromethane	1.55	101	154831	20.590	ug/l	95
8) Diethyl Ether	1.71	74	27148	17.346	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.92	101	105931	20.621	ug/l	99
10) Methyl Iodide	1.99	142	148893	16.315	ug/l #	88
11) Tert butyl alcohol	2.70	59	24376	87.192	ug/l #	92
12) 1,1-Dichloroethene	1.87	96	99603	20.385	ug/l	98
13) Acrolein	2.10	56	11907	69.489	ug/l	86
14) Allyl chloride	2.20	41	118803	21.187	ug/l	96
15) Acrylonitrile	3.08	53	80019	93.975	ug/l	99
16) Acetone	2.35	43	85894	89.348	ug/l	93
17) Carbon Disulfide	1.91	76	214485	15.798	ug/l	99
18) Methyl Acetate	2.46	43	39300	14.878	ug/l	98
19) Methyl tert-butyl Ether	2.55	73	165085	19.136	ug/l	96
20) Methylene Chloride	2.35	84	66565	8.959	ug/l	97
21) trans-1,2-Dichloroethene	2.42	96	88133	18.240	ug/l	99
22) Diisopropyl ether	2.94	45	272367	18.989	ug/l	99
23) Vinyl Acetate	3.35	43	609117	89.131	ug/l	99
24) 1,1-Dichloroethane	3.02	63	147457	18.793	ug/l	99
25) 2-Butanone	4.53	43	164642	85.651	ug/l	99
26) 2,2-Dichloropropane	3.77	77	80459	20.311	ug/l	97
27) cis-1,2-Dichloroethene	3.65	96	109395	17.483	ug/l	98
28) Bromochloromethane	3.91	49	63434	16.877	ug/l #	96
29) Tetrahydrofuran	4.28	42	70792	81.363	ug/l	98
30) Chloroform	4.06	83	181217	18.793	ug/l	94
31) Cyclohexane	3.88	56	162691	17.302	ug/l	99
32) 1,1,1-Trichloroethane	4.29	97	118685	16.814	ug/l #	83
36) 1,1-Dichloropropene	4.47	75	145959	21.231	ug/l	99
37) Ethyl Acetate	4.31	43	59662	18.391	ug/l #	99
38) Carbon Tetrachloride	4.19	117	125227	20.579	ug/l	98

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Instrument :
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Quant Time: Apr 23 01:10:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 23:52:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	170291	20.688	ug/l	97
40) Benzene	4.83	78	379874	21.066	ug/l	99
41) Methacrylonitrile	4.94	41	38654	20.656	ug/l	95
42) 1,2-Dichloroethane	5.13	62	104086	21.834	ug/l	97
43) Isopropyl Acetate	7.13	43	63884	18.723	ug/l	96
44) Trichloroethene	5.69	130	105879	21.729	ug/l	99
45) 1,2-Dichloropropane	6.42	63	75546	19.019	ug/l	92
46) Dibromomethane	6.27	93	52469	19.854	ug/l	90
47) Bromodichloromethane	6.55	83	124726	20.914	ug/l	99
48) Methyl methacrylate	6.88	41	42964	19.160	ug/l	97
49) 1,4-Dioxane	6.88	88	8520	331.308	ug/l	94
51) 4-Methyl-2-Pentanone	8.41	43	251299	99.021	ug/l	99
52) Toluene	7.79	92	196216	20.642	ug/l	94
53) t-1,3-Dichloropropene	8.43	75	91177	20.355	ug/l	98
54) cis-1,3-Dichloropropene	7.47	75	122043	20.143	ug/l	97
55) 1,1,2-Trichloroethane	8.64	97	56091	21.064	ug/l	95
56) Ethyl methacrylate	8.76	69	62944	20.790	ug/l	96
57) 1,3-Dichloropropane	9.00	76	89347	20.779	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.45	63	76948	87.541	ug/l	92
59) 2-Hexanone	9.63	43	160373	101.417	ug/l	97
60) Dibromochloromethane	8.86	129	90049	22.739	ug/l	98
61) 1,2-Dibromoethane	9.14	107	63246	21.082	ug/l	95
64) Tetrachloroethene	8.31	164	92580	22.861	ug/l	95
65) Chlorobenzene	9.94	112	200186	20.928	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.07	131	101314	22.617	ug/l	97
67) Ethyl Benzene	10.03	91	373752	21.488	ug/l	99
68) m/p-Xylenes	10.26	106	281601	43.979	ug/l	98
69) o-Xylene	10.82	106	152292	21.422	ug/l	91
70) Styrene	10.89	104	213840	21.315	ug/l	100
71) Bromoform	10.88	173	52713	22.288	ug/l #	95
73) Isopropylbenzene	11.22	105	465242	21.516	ug/l	100
74) N-amyl acetate	11.45	43	103053	18.712	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.77	83	72388	19.466	ug/l	98
76) 1,2,3-Trichloropropane	11.87	75	45891	17.937	ug/l #	64
77) Bromobenzene	11.58	156	102080	22.037	ug/l	91
78) n-propylbenzene	11.68	91	473175	20.743	ug/l	100
79) 2-Chlorotoluene	11.80	91	288807	20.872	ug/l	98
80) 1,3,5-Trimethylbenzene	11.90	105	386322	21.451	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.95	75	28930	22.172	ug/l #	94
82) 4-Chlorotoluene	11.98	91	264561	19.784	ug/l	95
83) tert-Butylbenzene	12.20	119	421128	22.612	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	376072	21.579	ug/l	100
85) sec-Butylbenzene	12.37	105	521006	21.548	ug/l	100
86) p-Isopropyltoluene	12.52	119	456366	22.250	ug/l	98
87) 1,3-Dichlorobenzene	12.54	146	188777	21.961	ug/l	98
88) 1,4-Dichlorobenzene	12.63	146	174401	21.034	ug/l	99
89) n-Butylbenzene	12.90	91	423935	22.252	ug/l	98
90) Hexachloroethane	12.97	117	114849	21.806	ug/l	93
91) 1,2-Dichlorobenzene	13.00	146	180374	21.732	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.69	75	13757	18.829	ug/l	93

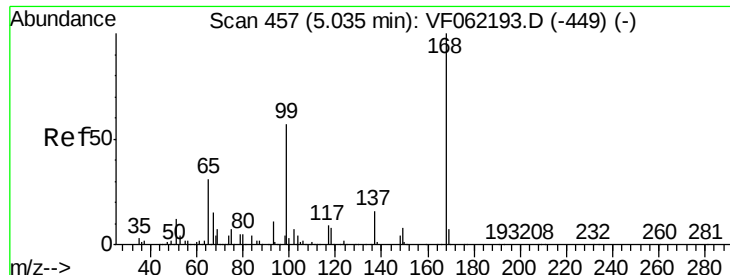
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF042219\
Data File : VF062243.D
Acq On : 22 Apr 2019 14:31
Operator : FY/SY
Sample : VF0422SBSD01
Misc : 5.00g/5mL/MSVOA F/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
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Quant Time: Apr 23 01:10:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
Quant Title : SW846 8260
QLast Update : Fri Apr 19 23:52:01 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	163508	23.545	ug/l	95
94) Hexachlorobutadiene	14.23	225	113407	23.816	ug/l	99
95) Naphthalene	14.50	128	258430	21.283	ug/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	153274	22.990	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

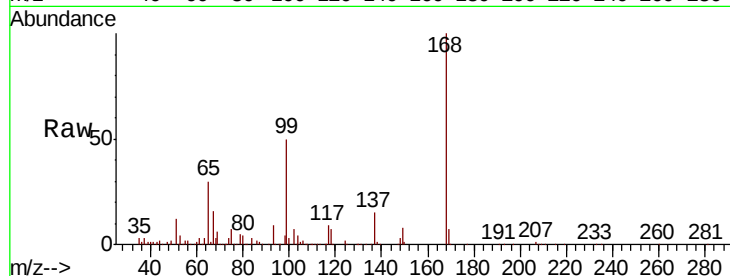
VF0422SBS01

Tot Ion:168 Resp: 438618

Ion Ratio Lower Upper

168 100

99 49.8 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.06

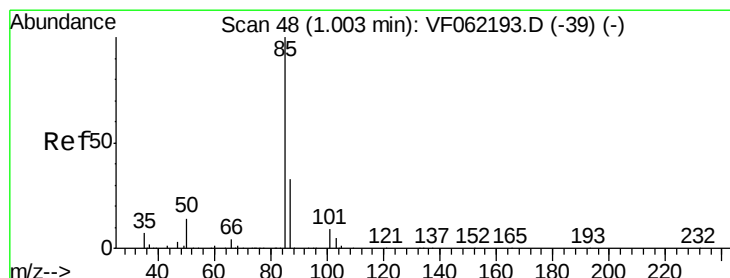
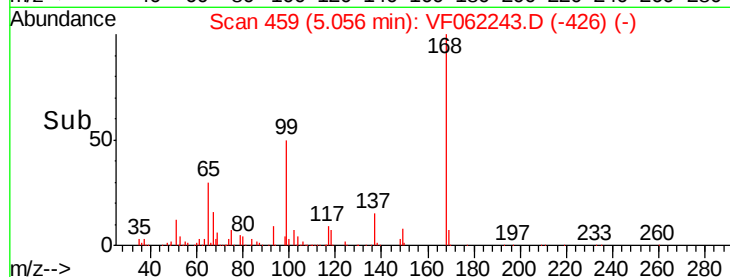
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 20.854 ug/l

RT: 1.00 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062243.D

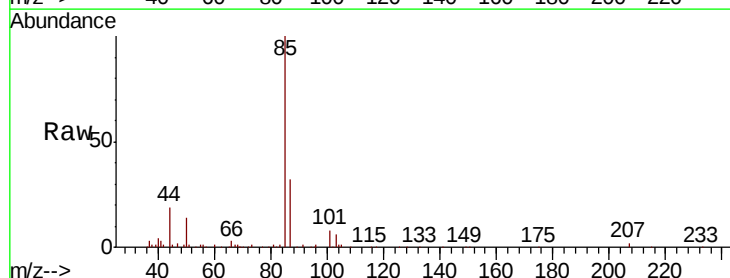
Acq: 22 Apr 2019 14:31

Tgt Ion: 85 Resp: 139005

Ion Ratio Lower Upper

85 100

87 32.2 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

40000

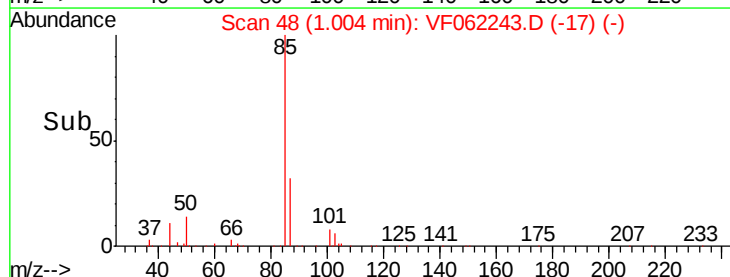
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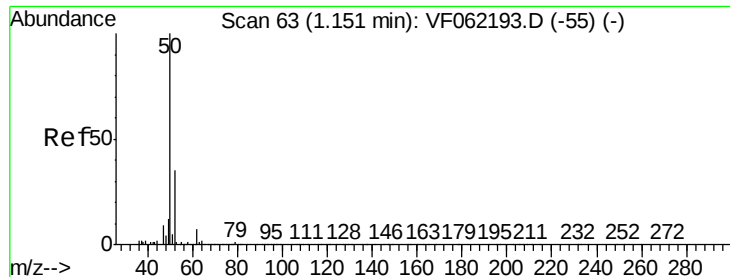
20000

10000

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Time-->





#3

Chloromethane

Concen: 17.791 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

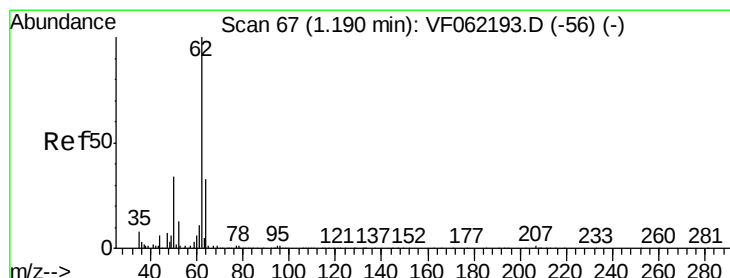
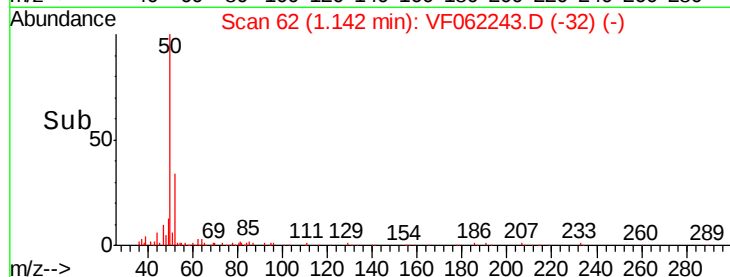
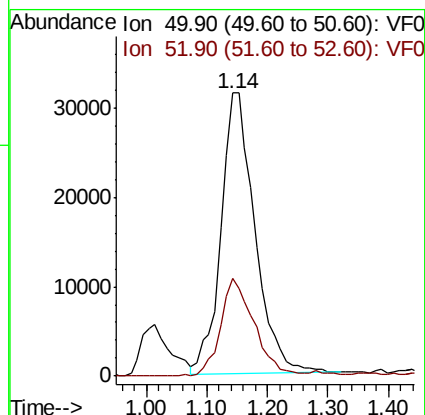
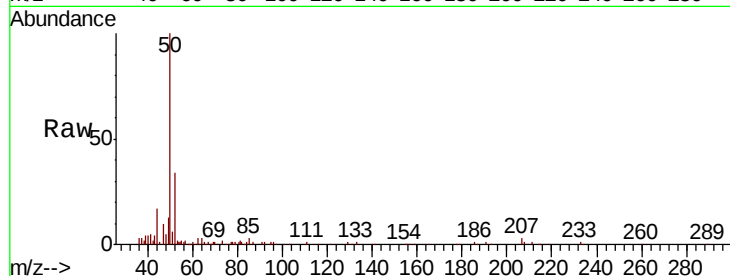
VF0422SBSD01

Tot Ion: 50 Resp: 122575

Ion Ratio Lower Upper

50 100

52 34.5 27.0 40.4



#4

Vinyl Chloride

Concen: 19.002 ug/l

RT: 1.19 min Scan# 67

Delta R.T. 0.00 min

Lab File: VF062243.D

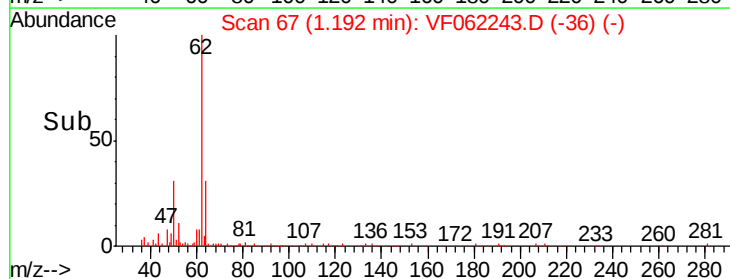
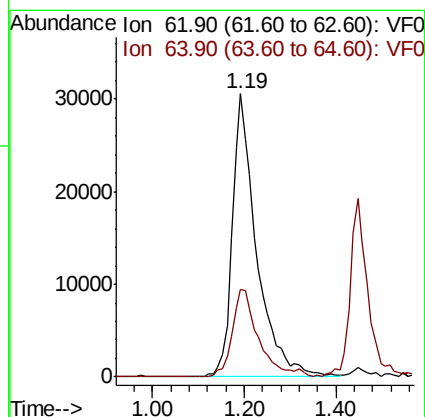
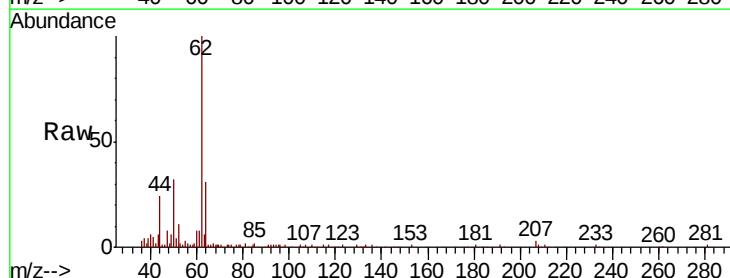
Acq: 22 Apr 2019 14:31

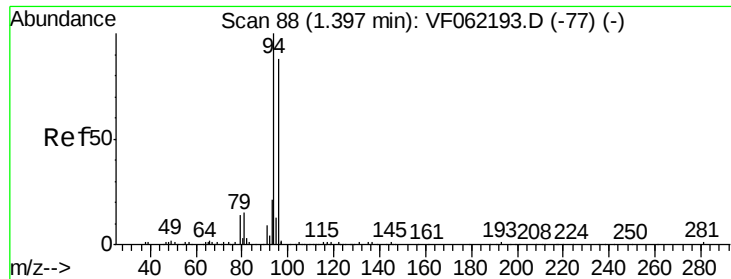
Tgt Ion: 62 Resp: 112473

Ion Ratio Lower Upper

62 100

64 30.8 26.2 39.4





#5

Bromomethane

Concen: 19.706 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

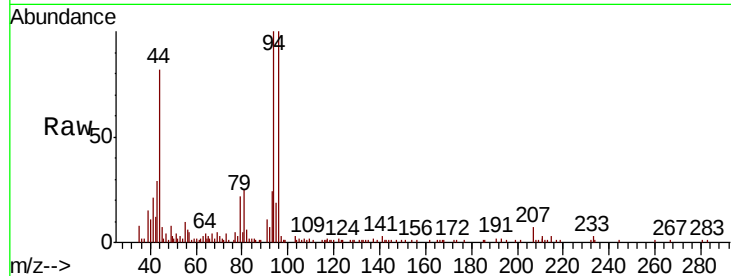
VF0422SBS01

Tot Ion: 94 Resp: 67759

Ion Ratio Lower Upper

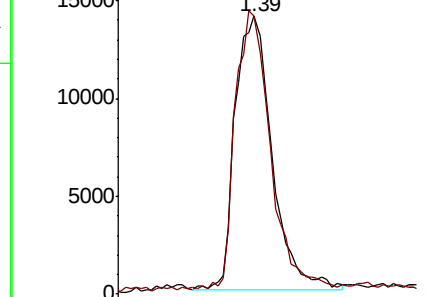
94 100

96 98.8 70.2 105.4

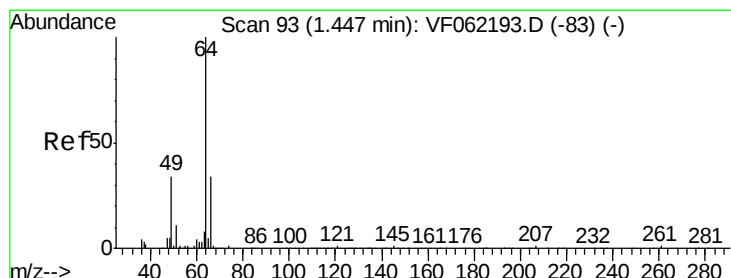
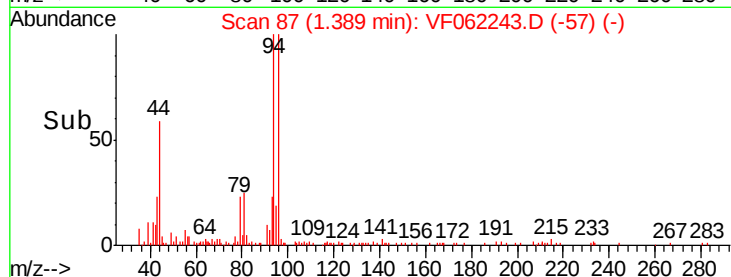


Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



Time-->



#6

Chloroethane

Concen: 20.381 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062243.D

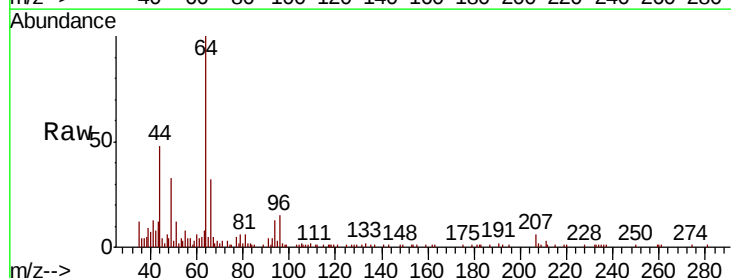
Acq: 22 Apr 2019 14:31

Tgt Ion: 64 Resp: 50433

Ion Ratio Lower Upper

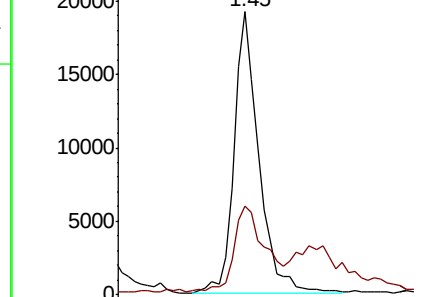
64 100

66 30.2 27.0 40.4

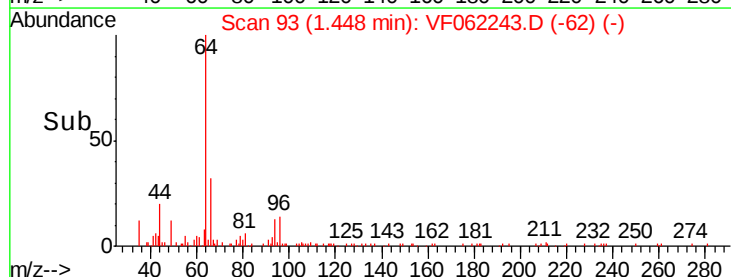


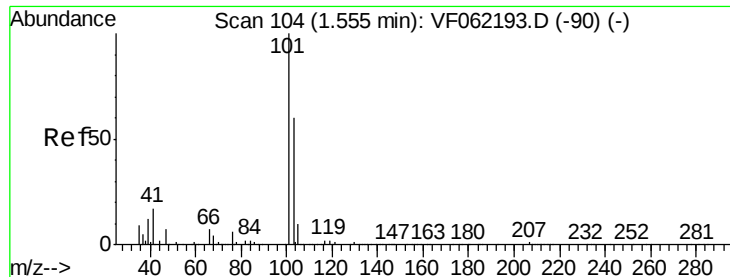
Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0



Time-->



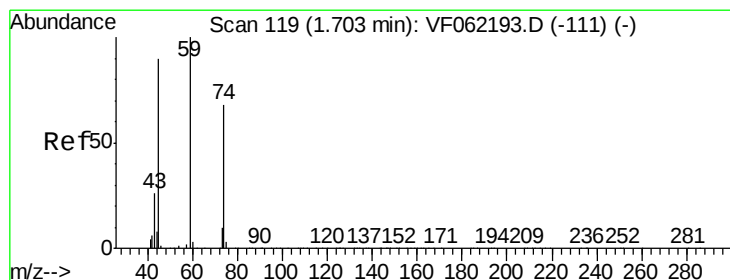
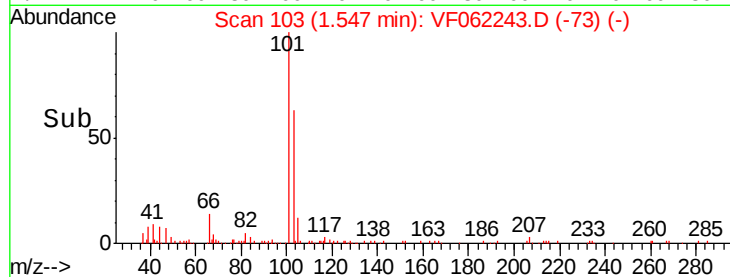
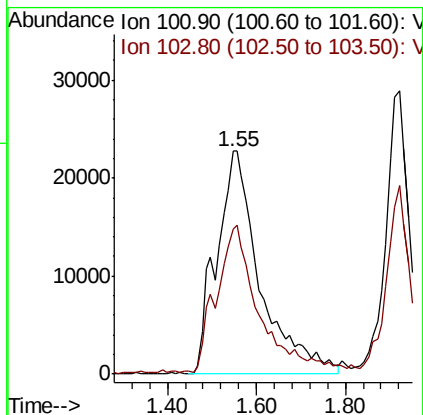
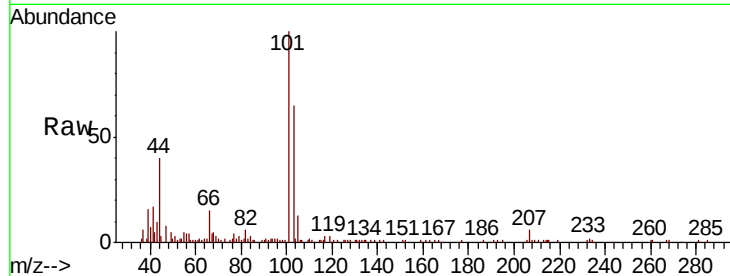


#7

Trichlorofluoromethane
Concen: 20.590 ug/l
RT: 1.55 min Scan# 103
Delta R.T. -0.01 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Instrument :
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ClientSampleId :
VF0422SBSD01

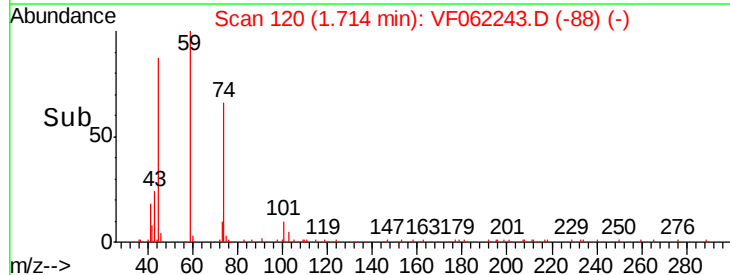
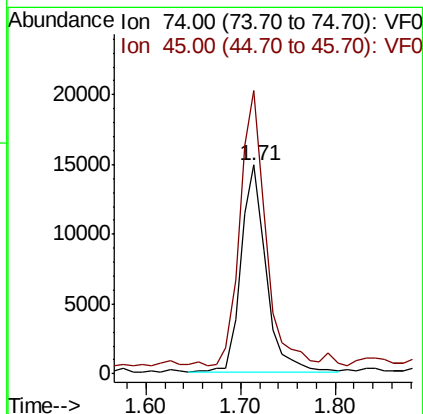
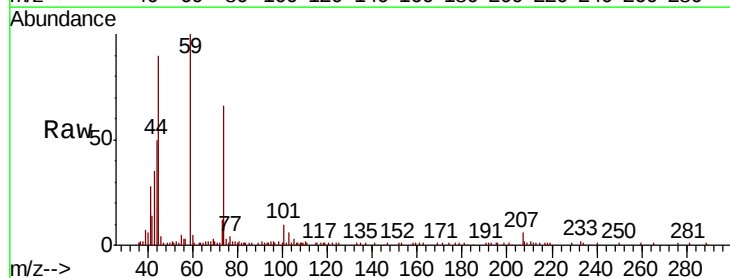
Tot Ion:101 Resp: 154831
Ion Ratio Lower Upper
101 100
103 63.7 48.2 72.4

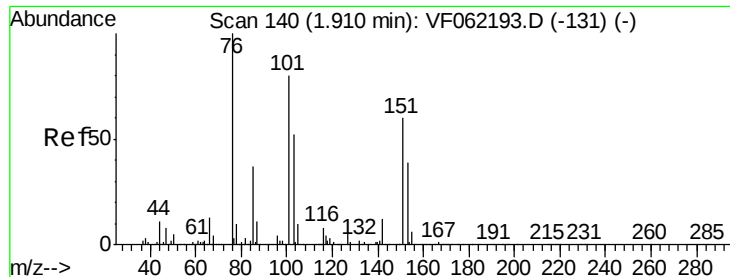


#8

Diethyl Ether
Concen: 17.346 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion: 74 Resp: 27148
Ion Ratio Lower Upper
74 100
45 135.3 70.0 210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.621 ug/l

RT: 1.92 min Scan# 141

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

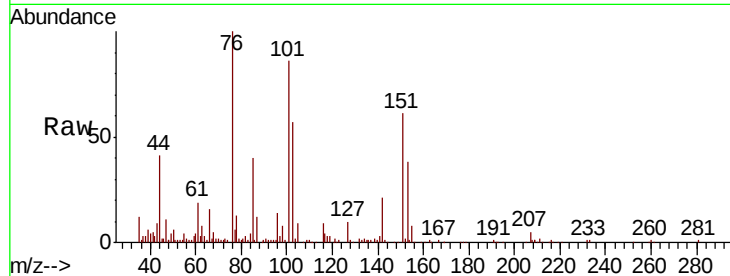
Tot Ion:101 Resp: 105931

Ion Ratio Lower Upper

101 100

85 44.1 35.3 52.9

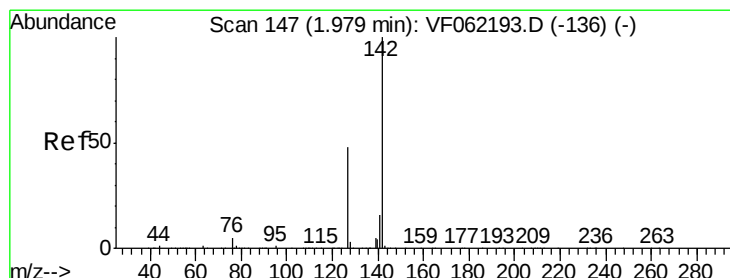
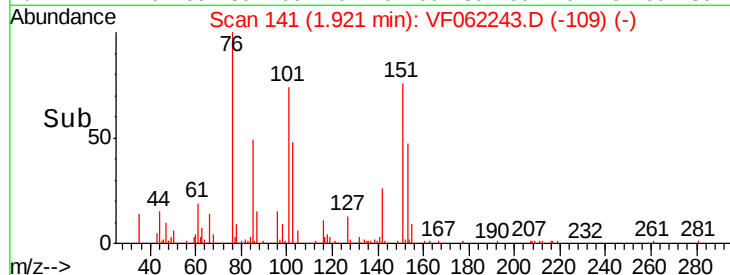
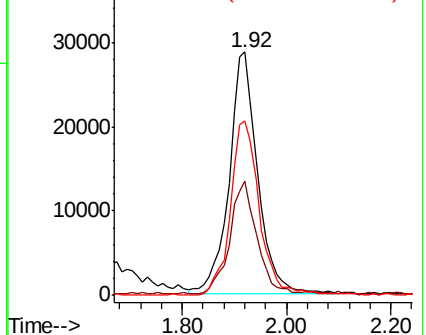
151 73.8 57.5 86.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VF0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 16.315 ug/l

RT: 1.99 min Scan# 148

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

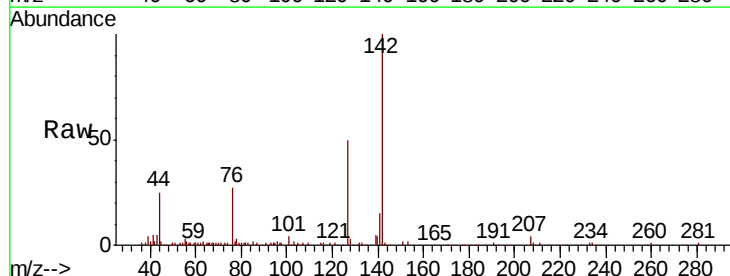
Tgt Ion:142 Resp: 148893

Ion Ratio Lower Upper

142 100

127 50.0 33.0 49.4#

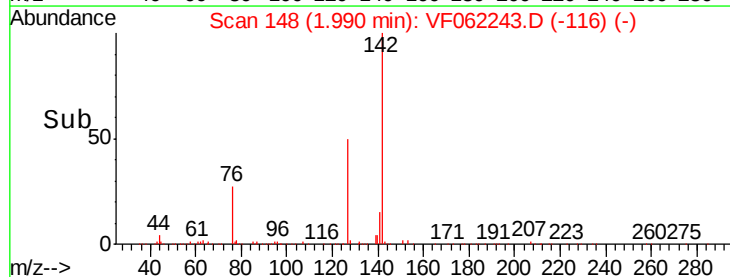
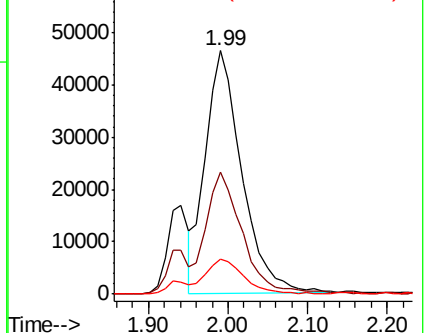
141 18.9 12.7 19.1

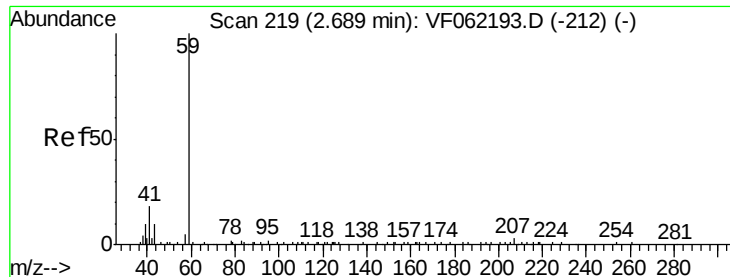


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



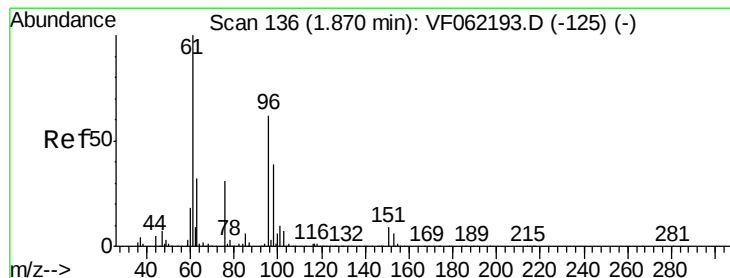
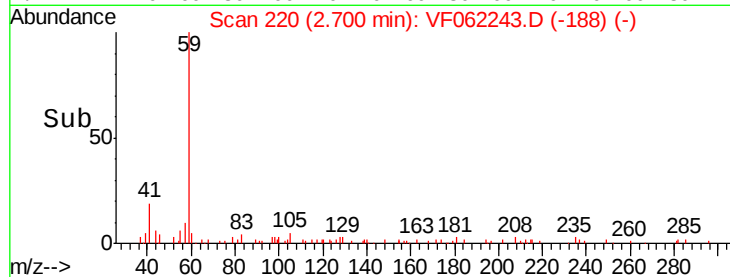
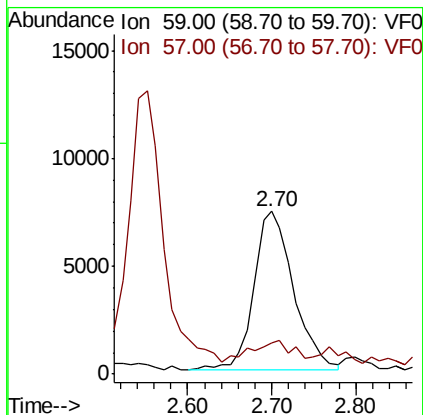
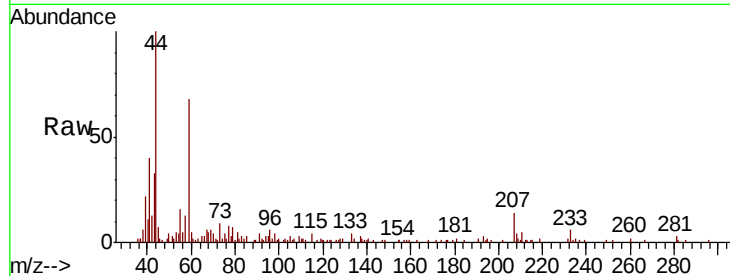


#11

Tert butyl alcohol
 Concen: 87.192 ug/l
 RT: 2.70 min Scan# 220
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

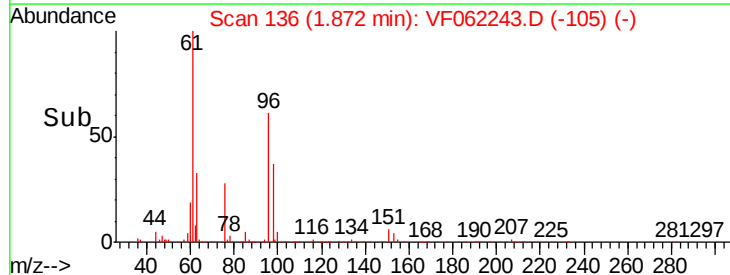
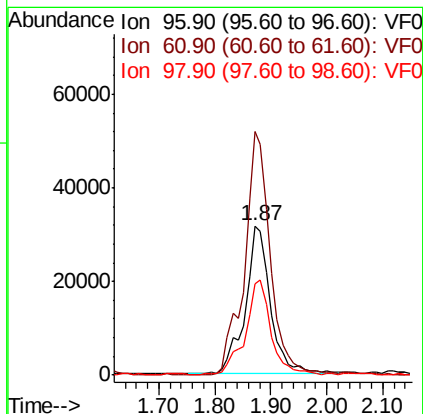
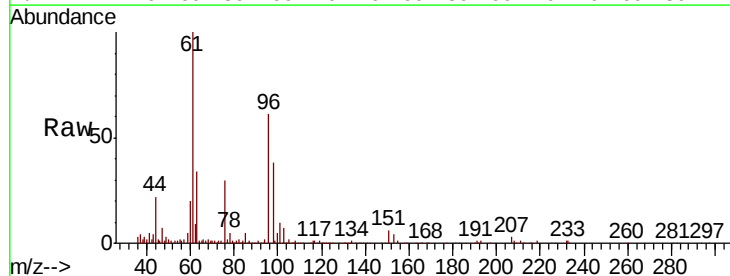
Tot Ion: 59 Resp: 24376
 Ion Ratio Lower Upper
 59 100
 57 14.8 9.3 13.9#

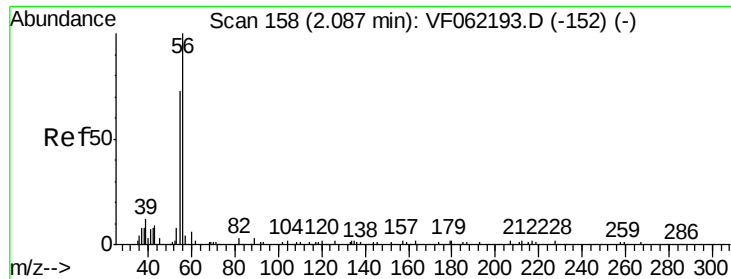


#12

1,1-Dichloroethene
 Concen: 20.385 ug/l
 RT: 1.87 min Scan# 136
 Delta R.T. 0.00 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion: 96 Resp: 99603
 Ion Ratio Lower Upper
 96 100
 61 164.5 129.1 193.7
 98 61.4 50.0 75.0

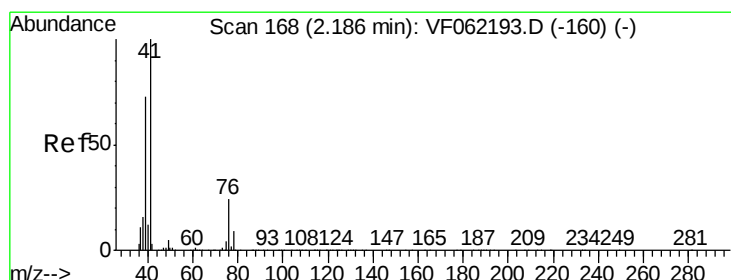
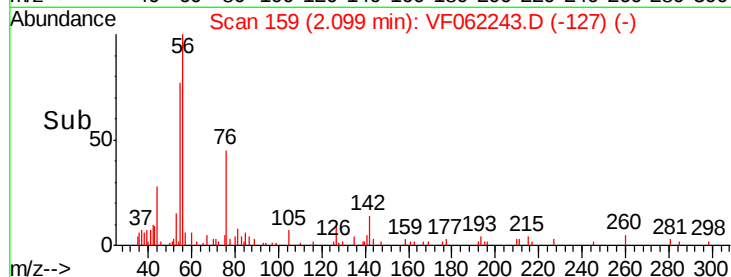
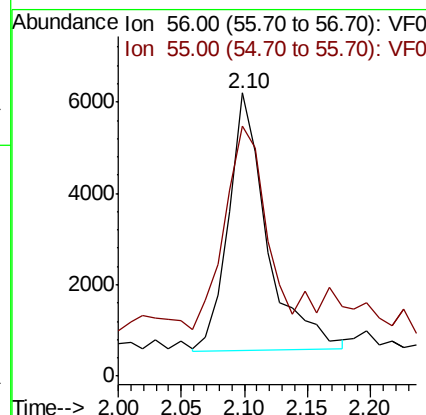
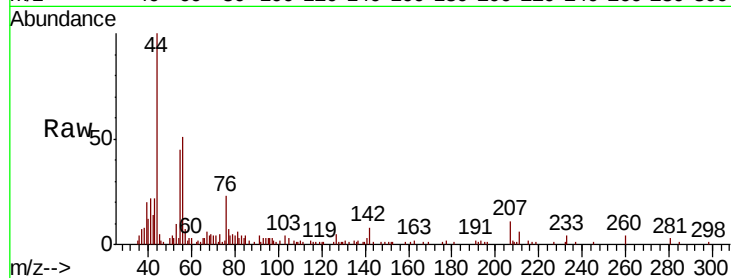




#13
Acrolein
Concen: 69.489 ug/l
RT: 2.10 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

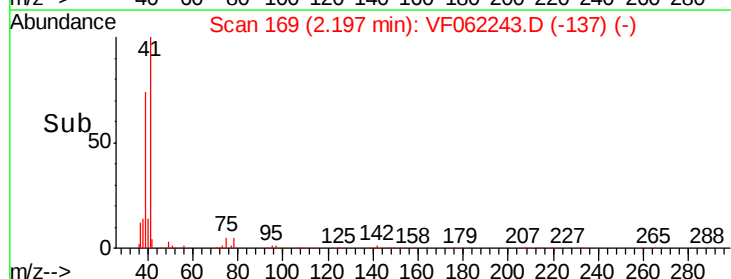
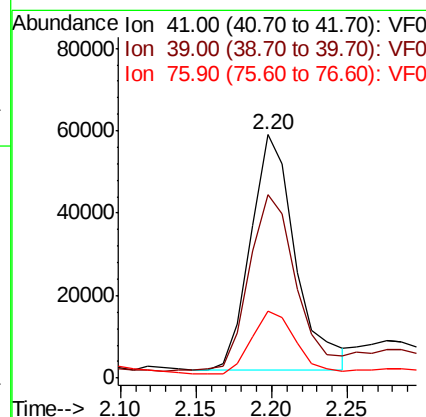
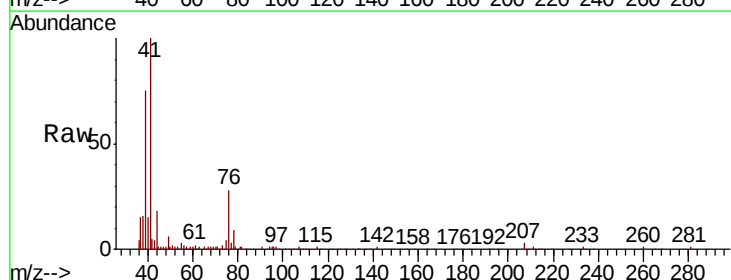
Instrument :
MSVOA_F
ClientSampleId :
VF0422SBS01

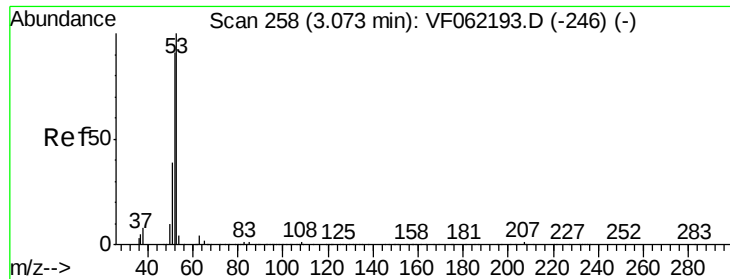
Tot Ion: 56 Resp: 11907
Ion Ratio Lower Upper
56 100
55 83.4 57.4 86.0



#14
Allyl chloride
Concen: 21.187 ug/l
RT: 2.20 min Scan# 169
Delta R.T. 0.01 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion: 41 Resp: 118803
Ion Ratio Lower Upper
41 100
39 79.1 60.0 90.0
76 26.8 20.6 30.8

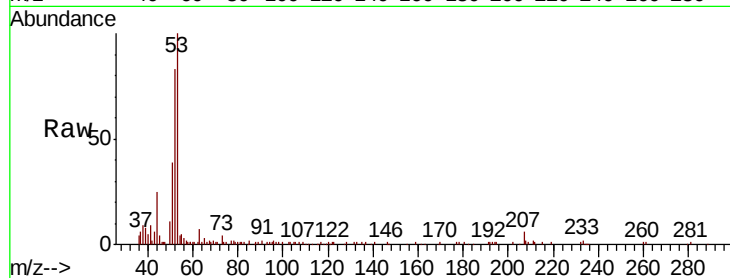




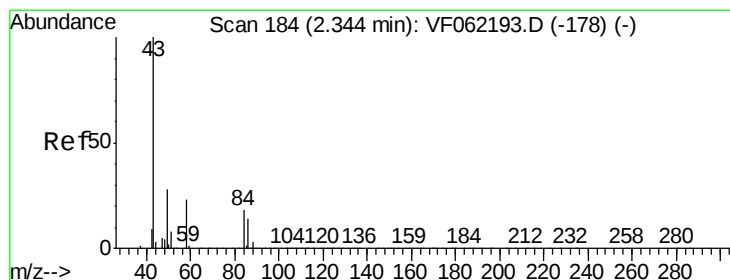
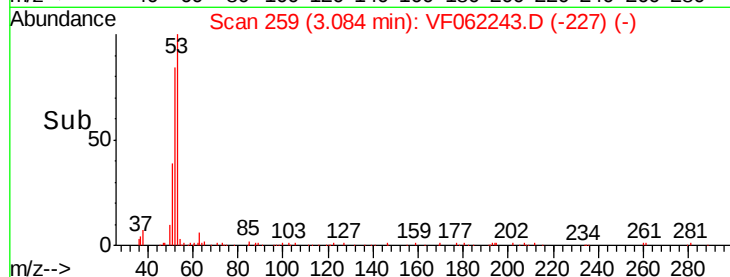
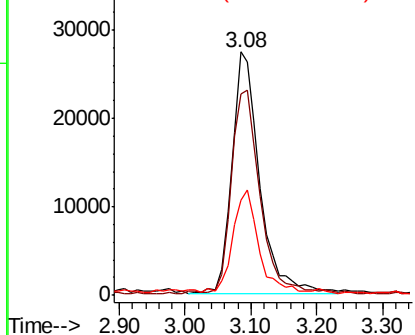
#15
 Acrylonitrile
 Concen: 93.975 ug/l
 RT: 3.08 min Scan# 259
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBSD01

Tot Ion:	53	Resp:	80019
Ion	Ratio	Lower	Upper
53	100		
52	87.8	69.5	104.3
51	39.9	31.8	47.8

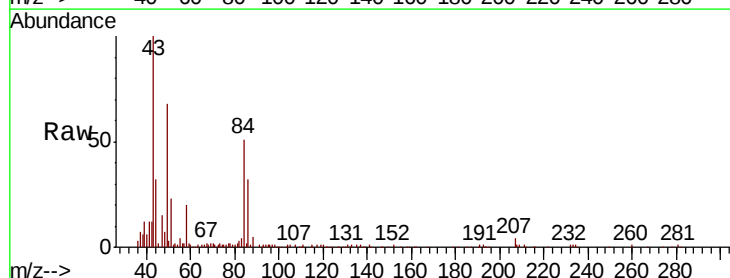


Abundance Ion 53.00 (52.70 to 53.70): VF0
 Ion 52.00 (51.70 to 52.70): VF0
 Ion 51.00 (50.70 to 51.70): VF0

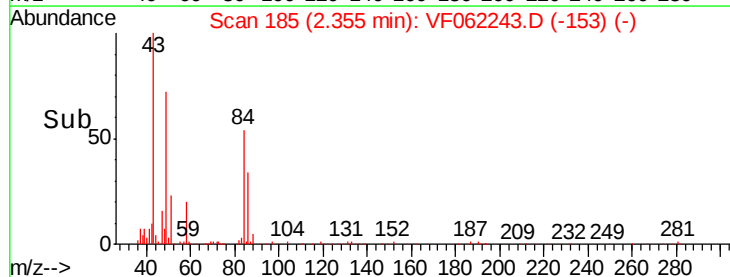
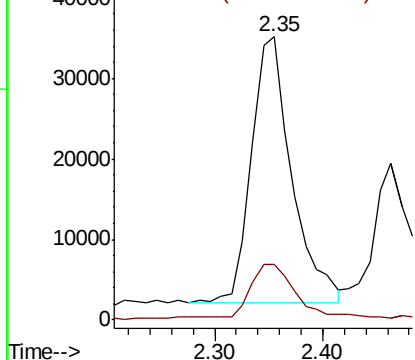


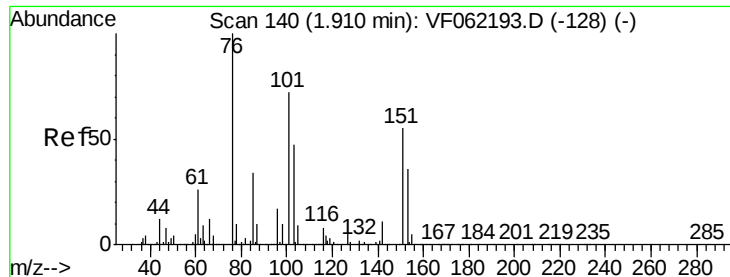
#16
 Acetone
 Concen: 89.348 ug/l
 RT: 2.35 min Scan# 185
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion:	43	Resp:	85894
Ion	Ratio	Lower	Upper
43	100		
58	20.0	18.8	28.2



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

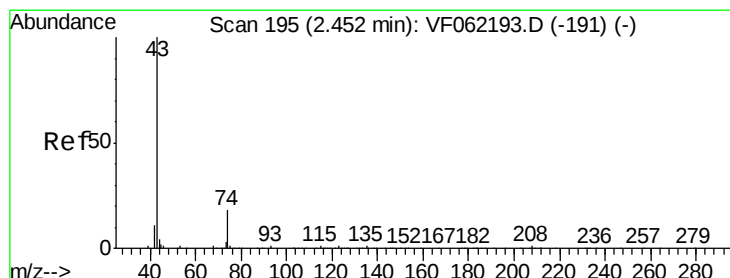
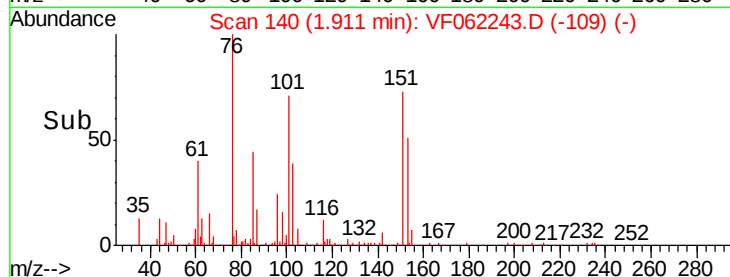
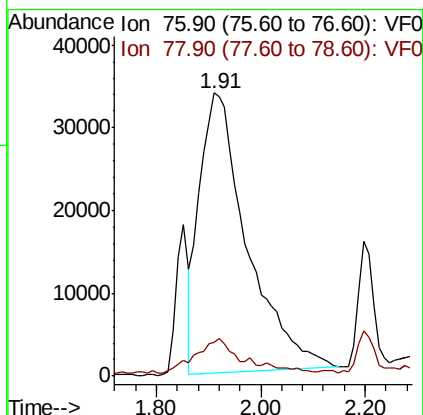
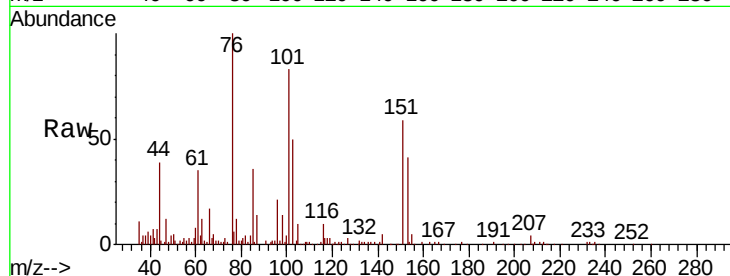




#17
Carbon Disulfide
Concen: 15.798 ug/l
RT: 1.91 min Scan# 140
Delta R.T. 0.00 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

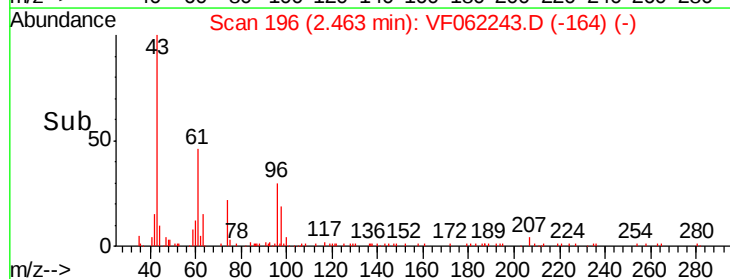
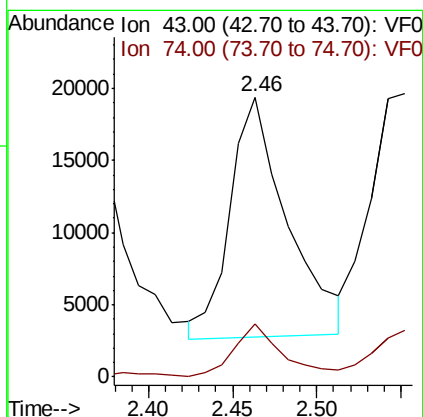
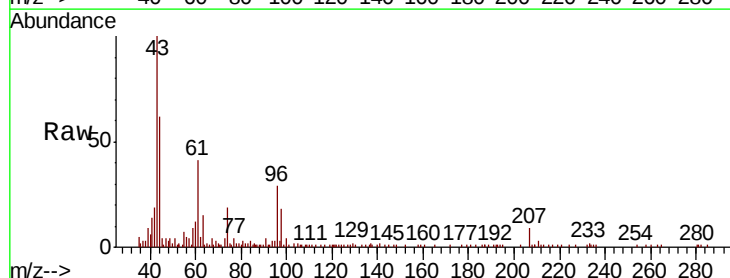
Instrument :
MSVOA_F
ClientSampleId :
VF0422SBSD01

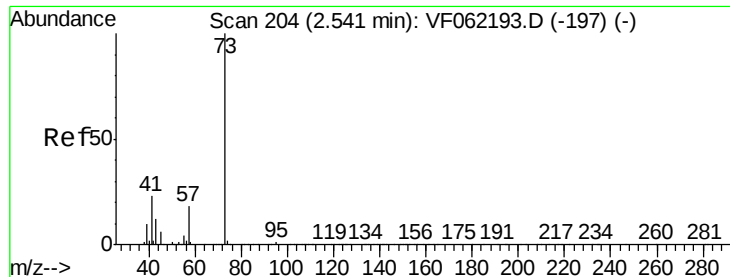
Tot Ion: 76 Resp: 214485
Ion Ratio Lower Upper
76 100
78 11.4 8.7 13.1



#18
Methyl Acetate
Concen: 14.878 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion: 43 Resp: 39300
Ion Ratio Lower Upper
43 100
74 19.0 14.5 21.7

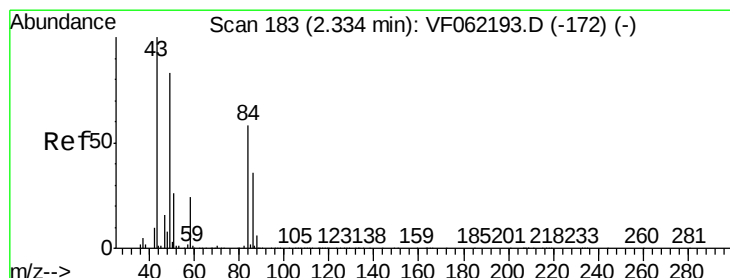
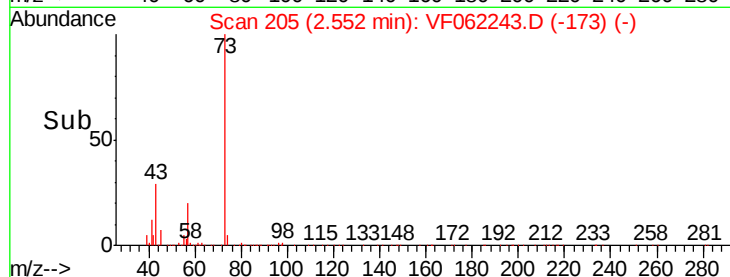
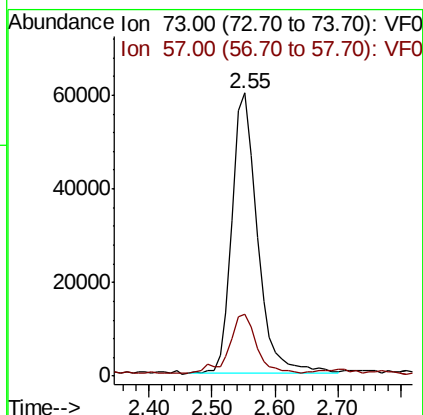
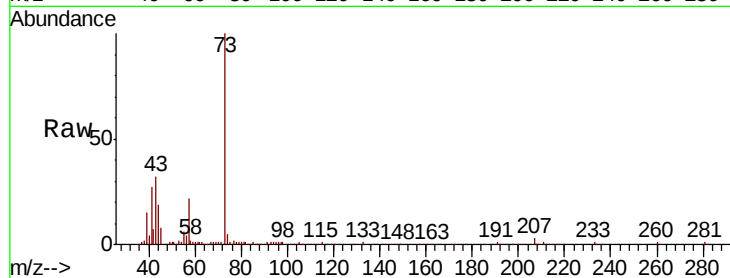




#19
Methvl tert-butvl Ether
Concen: 19.136 ug/l
RT: 2.55 min Scan# 205
Delta R.T. 0.01 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

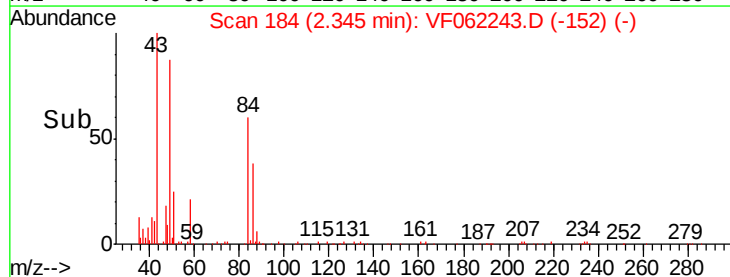
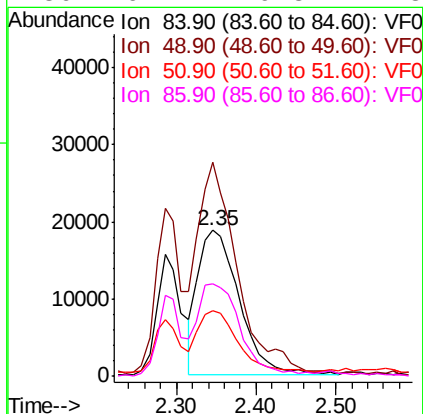
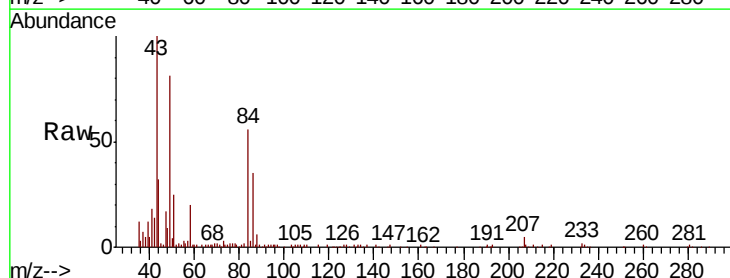
Instrument :
MSVOA_F
ClientSampleId :
VF0422SBS01

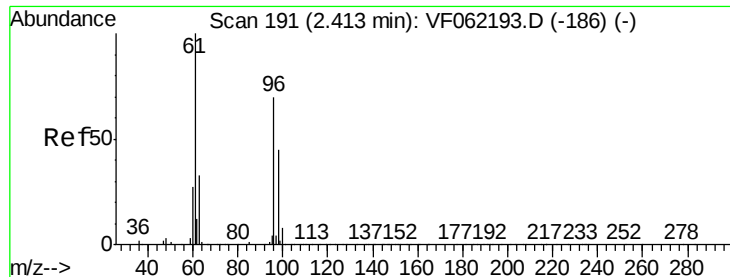
Tot Ion: 73 Resp: 165085
Ion Ratio Lower Upper
73 100
57 20.8 15.1 22.7



#20
Methylene Chloride
Concen: 8.959 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion: 84 Resp: 66565
Ion Ratio Lower Upper
84 100
49 146.1 114.0 171.0
51 41.4 37.0 55.4
86 62.7 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 18.240 ug/l

RT: 2.42 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

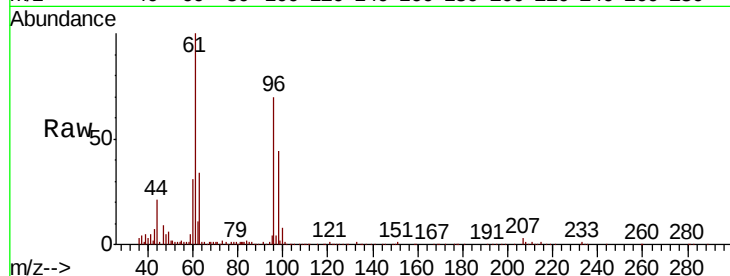
Tot Ion: 96 Resp: 88133

Ion Ratio Lower Upper

96 100

61 144.6 114.6 172.0

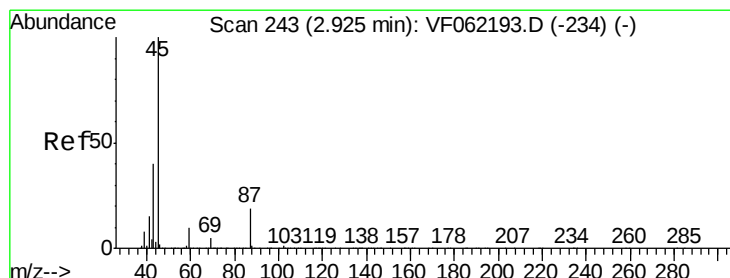
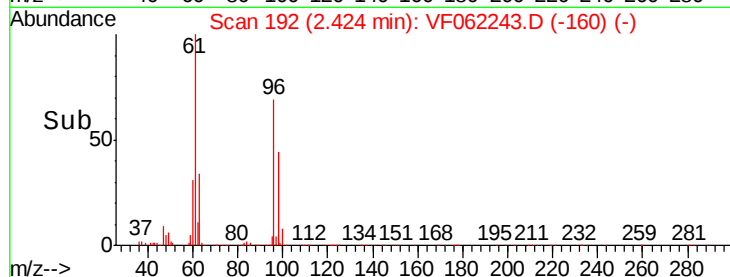
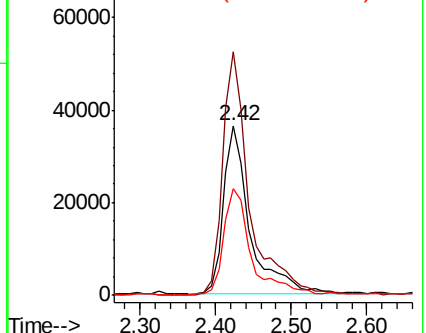
98 63.4 51.2 76.8



Abundance Ion 95.90 (95.60 to 96.60): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



#22

Diisopropyl ether

Concen: 18.989 ug/l

RT: 2.94 min Scan# 244

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Tgt Ion: 45 Resp: 272367

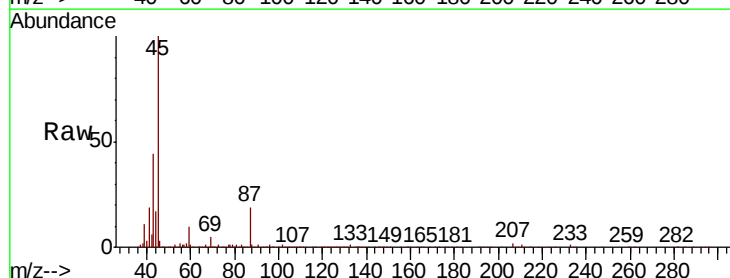
Ion Ratio Lower Upper

45 100

43 42.2 32.8 49.2

87 18.7 15.2 22.8

59 9.8 7.8 11.6

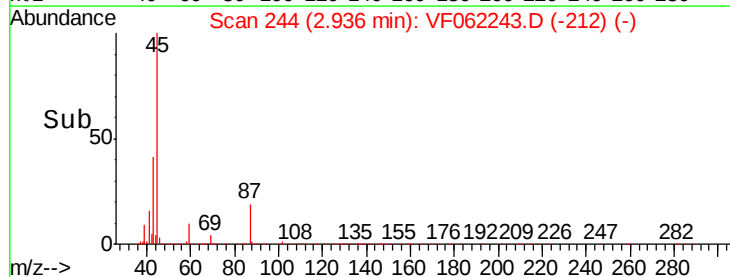
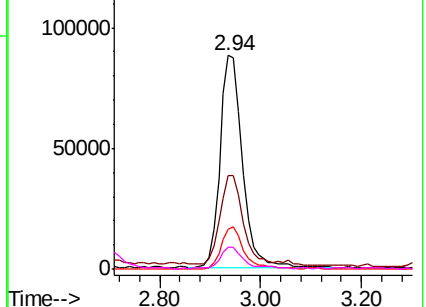


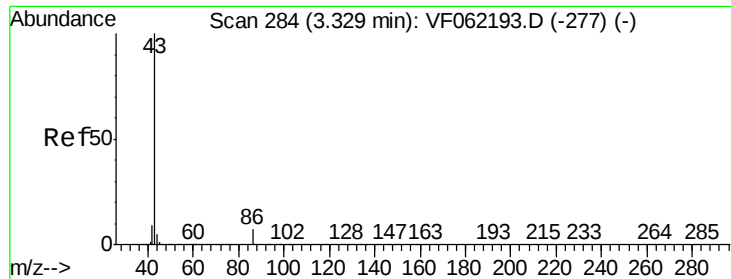
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 89.131 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

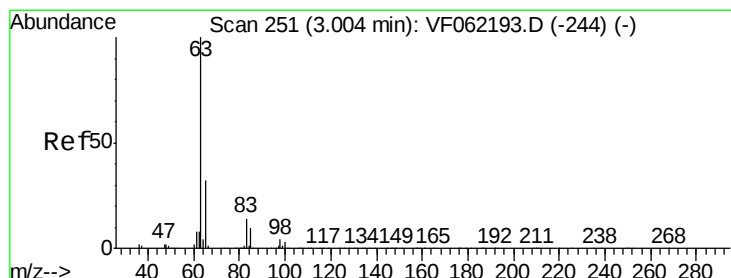
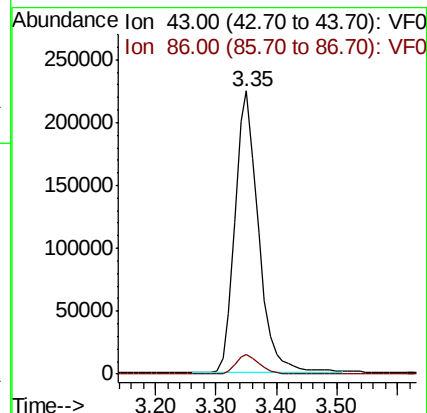
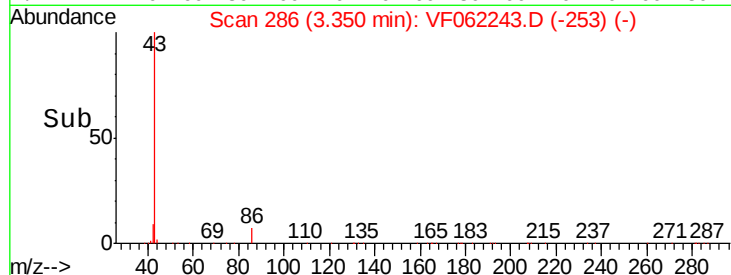
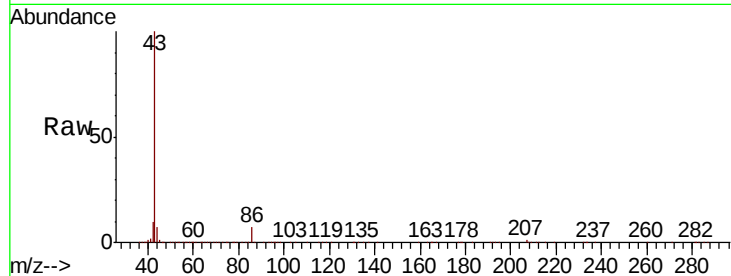
VF0422SBS01

Tot Ion: 43 Resp: 609117

Ion Ratio Lower Upper

43 100

86 7.1 5.9 8.9



#24

1,1-Dichloroethane

Concen: 18.793 ug/l

RT: 3.02 min Scan# 252

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

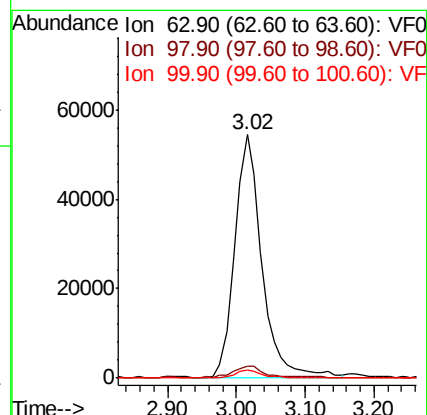
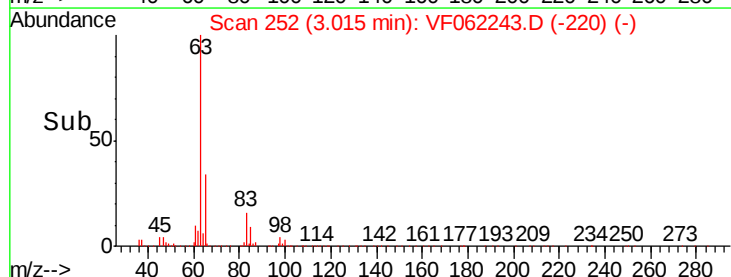
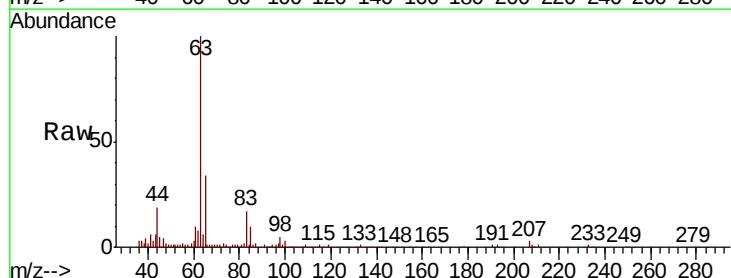
Tgt Ion: 63 Resp: 147457

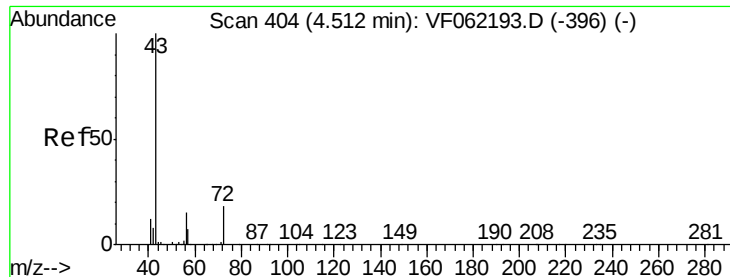
Ion Ratio Lower Upper

63 100

98 4.8 2.3 6.8

100 3.1 1.7 5.0

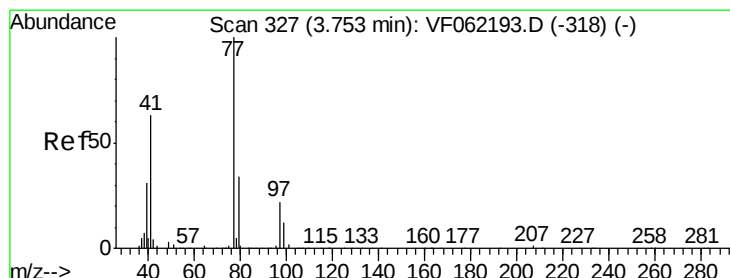
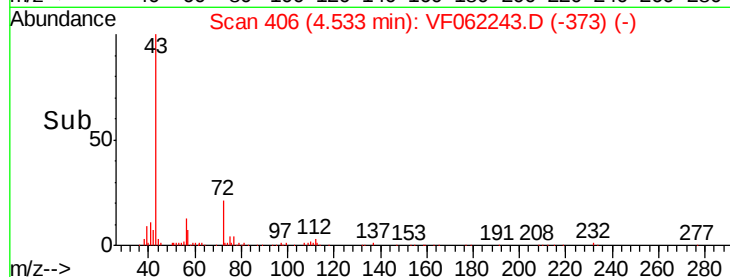
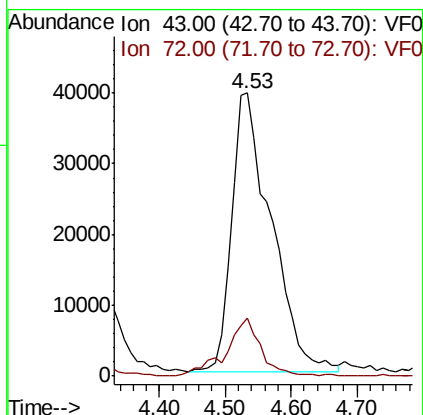
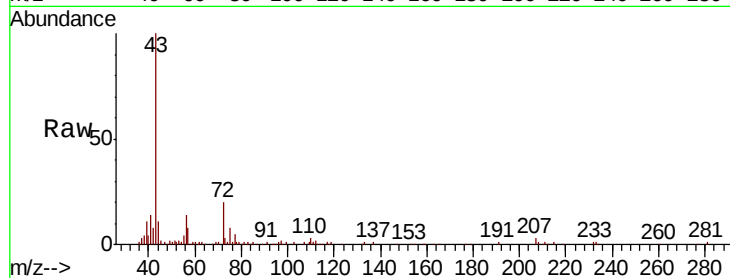




#25
2-Butanone
Concen: 85.651 ug/l
RT: 4.53 min Scan# 406
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

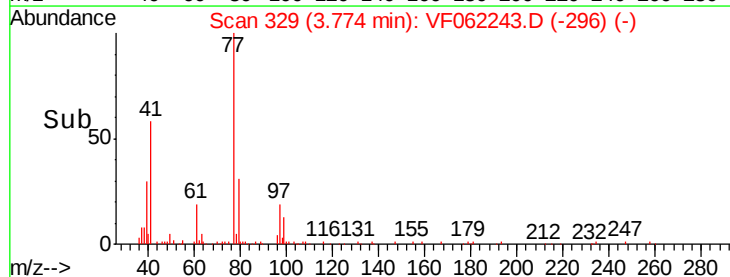
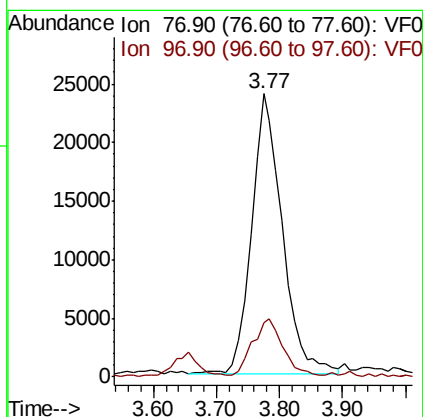
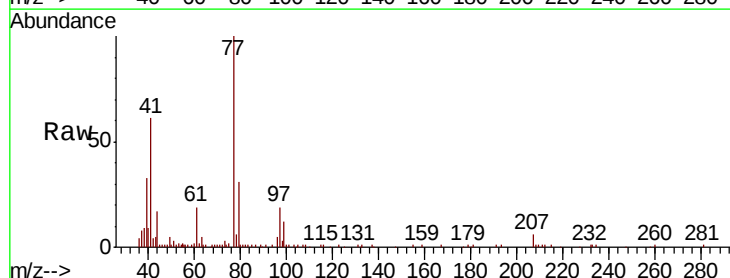
Instrument :
MSVOA_F
ClientSampleId :
VF0422SBS01

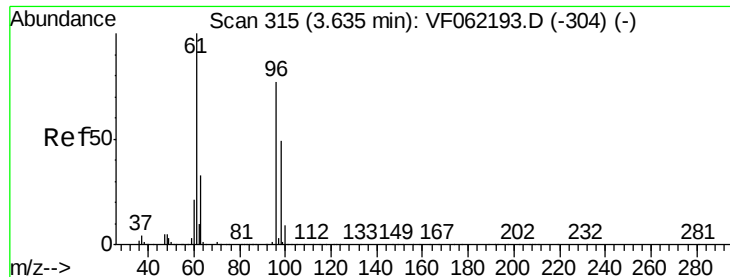
Tot Ion: 43 Resp: 164642
Ion Ratio Lower Upper
43 100
72 20.5 16.1 24.1



#26
2,2-Dichloropropane
Concen: 20.311 ug/l
RT: 3.77 min Scan# 329
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion: 77 Resp: 80459
Ion Ratio Lower Upper
77 100
97 21.0 11.1 33.3



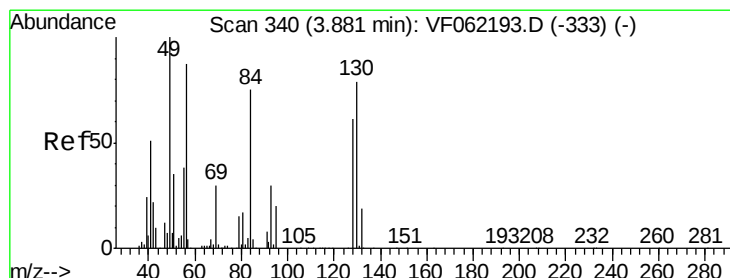
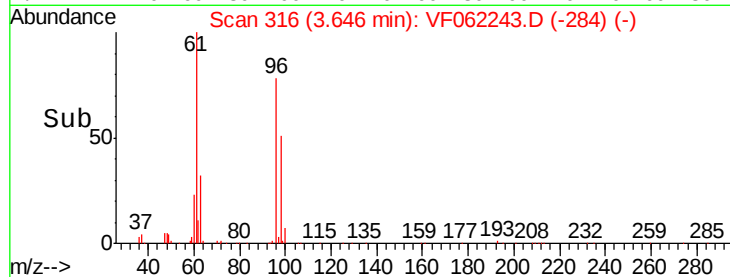
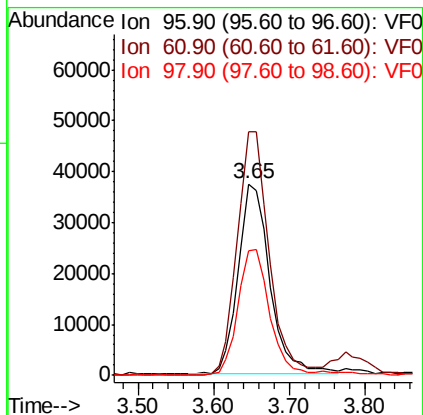
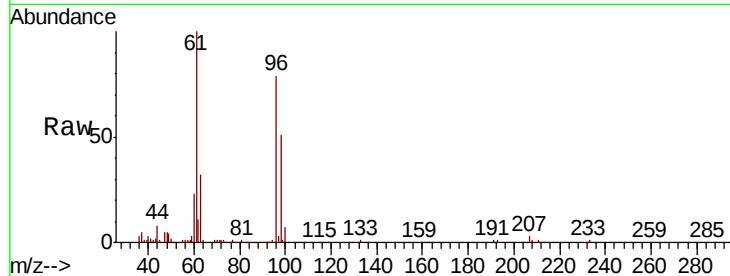


#27

cis-1,2-Dichloroethene
 Concen: 17.483 ug/l
 RT: 3.65 min Scan# 316
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

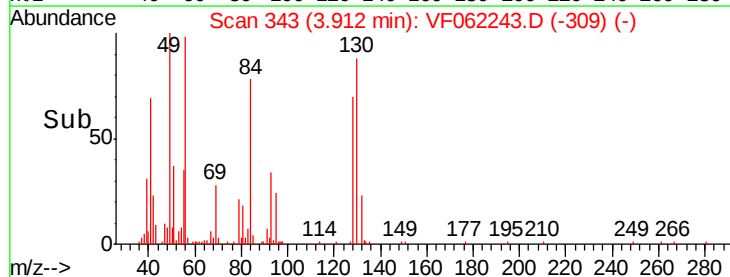
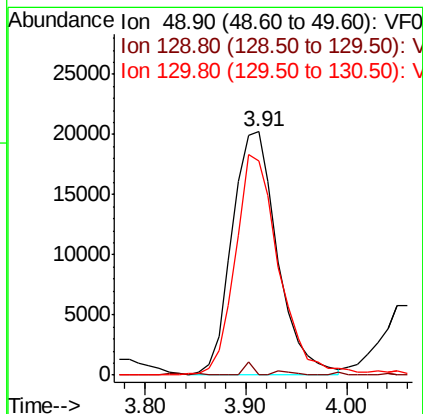
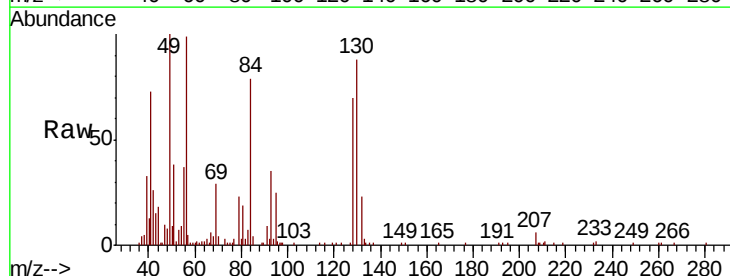
Tot Ion	Ratio	Lower	Upper
96	100		
61	127.3	0.0	253.6
98	65.2	0.0	124.8



#28

Bromochloromethane
 Concen: 16.877 ug/l
 RT: 3.91 min Scan# 343
 Delta R.T. 0.03 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	0.0#
130	87.3	66.6	100.0

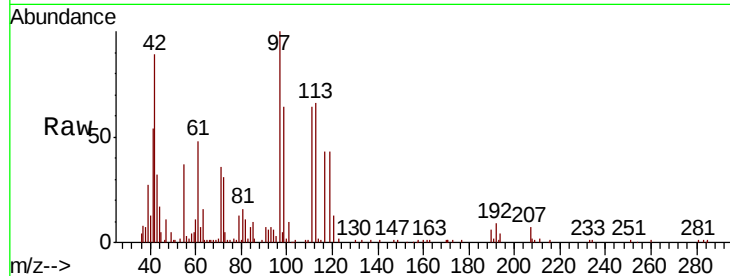




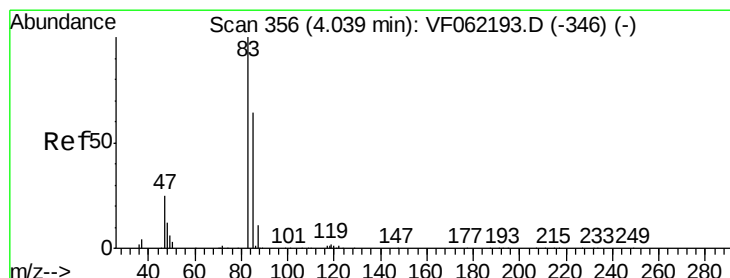
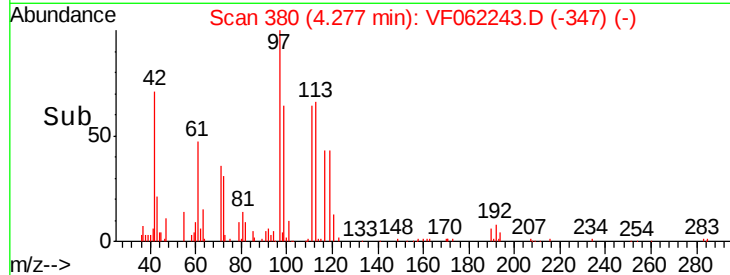
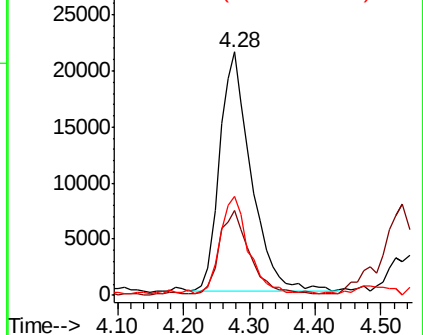
#29
Tetrahydrofuran
Concen: 81.363 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Instrument :
MSVOA_F
ClientSampleId :
VF0422SBS01

Tot Ion: 42 Resp: 70792
Ion Ratio Lower Upper
42 100
72 33.9 28.6 43.0
71 35.7 29.2 43.8

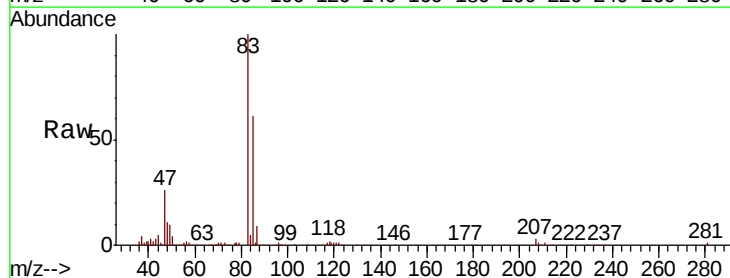


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

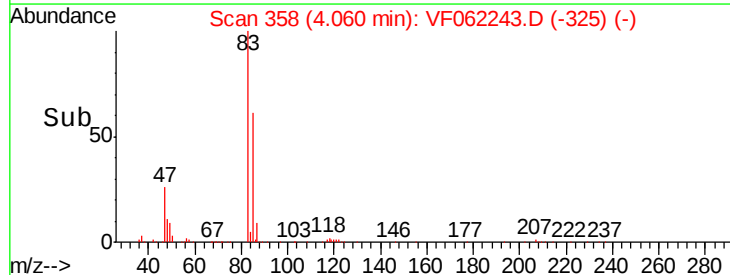
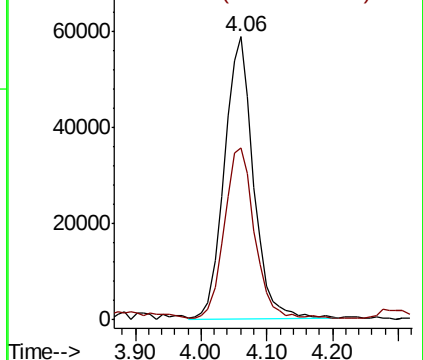


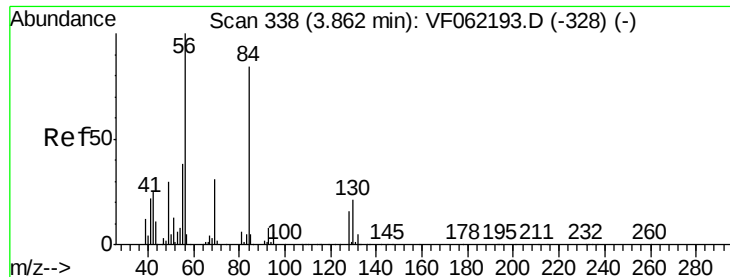
#30
Chloroform
Concen: 18.793 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion: 83 Resp: 181217
Ion Ratio Lower Upper
83 100
85 60.2 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VF0
Ion 84.90 (84.60 to 85.60): VF0

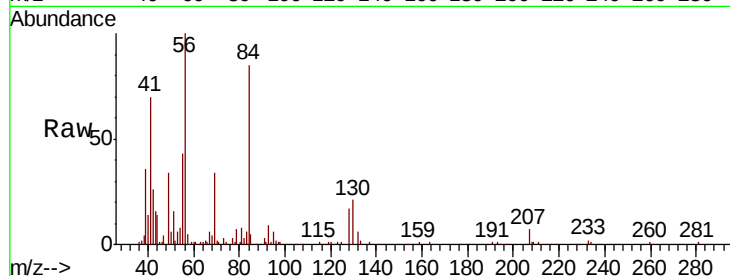




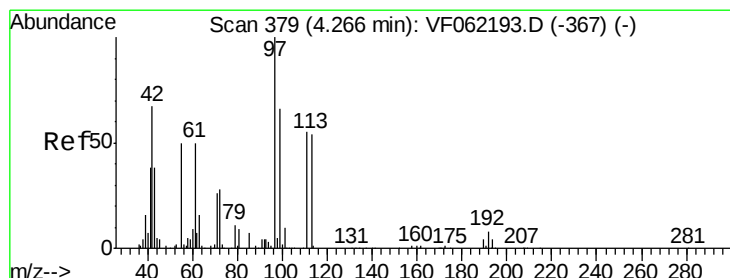
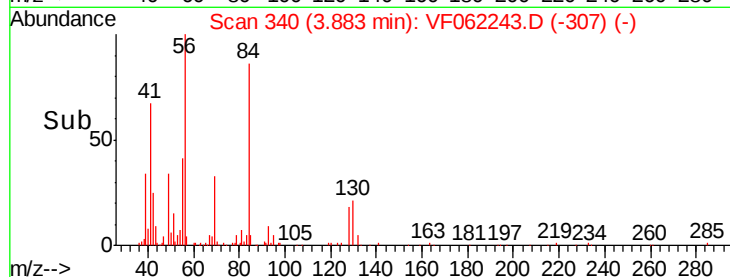
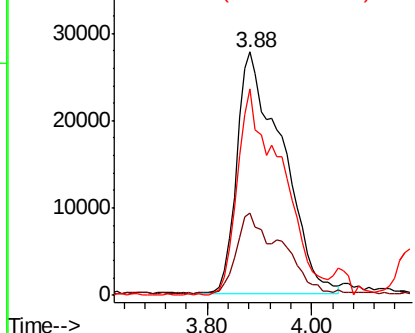
#31
Cyclohexane
Concen: 17.302 ug/l
RT: 3.88 min Scan# 340
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Instrument :
MSVOA_F
ClientSampleId :
VF0422SBS01

Tot Ion: 56 Resp: 162691
Ion Ratio Lower Upper
56 100
69 33.0 25.1 37.7
84 85.2 67.8 101.6

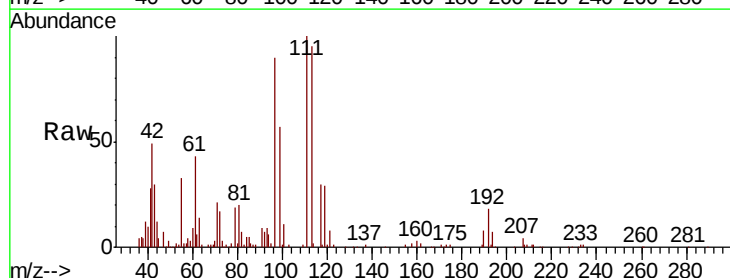


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

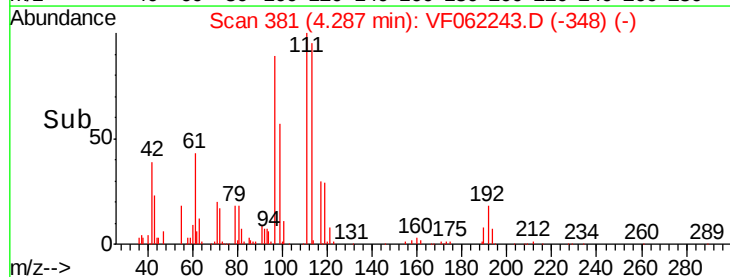
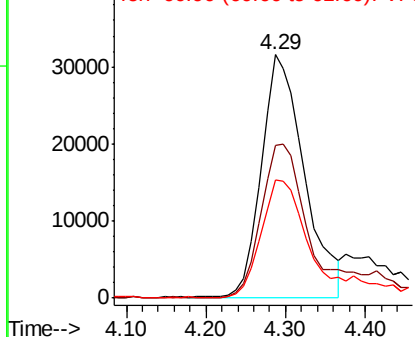


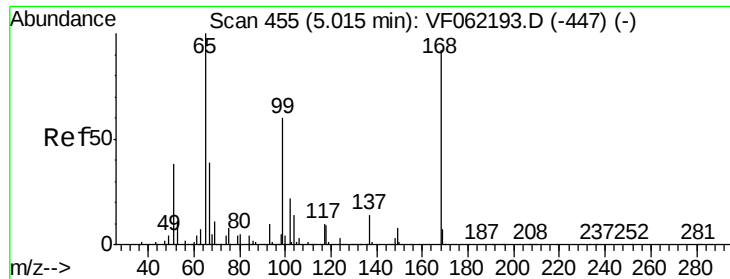
#32
1,1,1-Trichloroethane
Concen: 16.814 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion: 97 Resp: 118685
Ion Ratio Lower Upper
97 100
99 79.3 52.7 79.1#
61 52.1 53.0 79.4#



Abundance Ion 96.90 (96.60 to 97.60): VF0
Ion 98.90 (98.60 to 99.60): VF0
Ion 60.90 (60.60 to 61.60): VF0

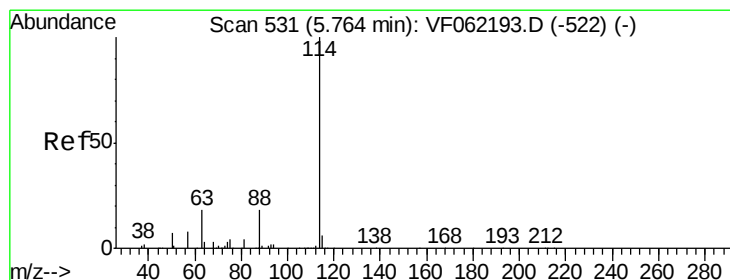
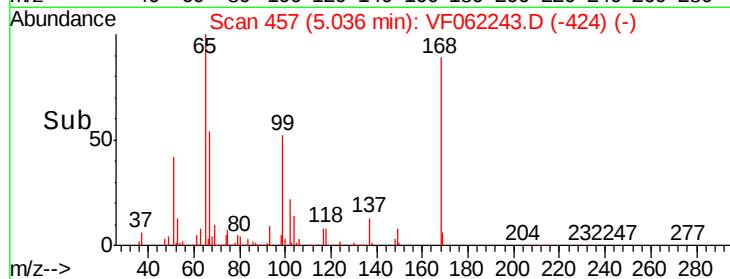
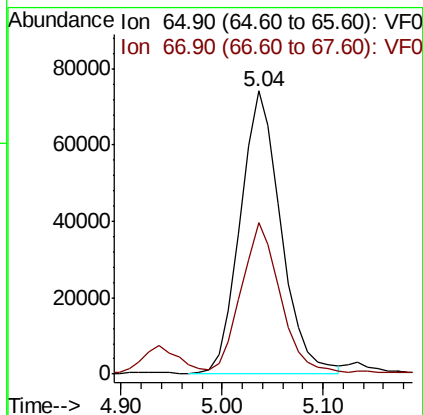
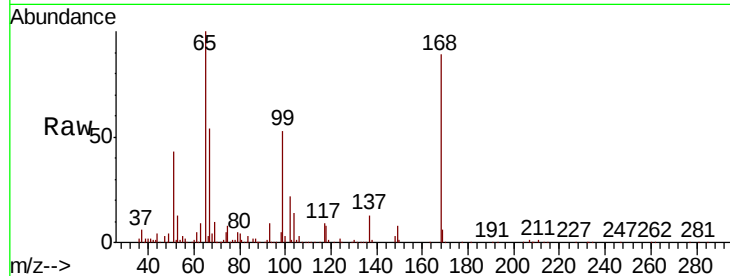




#33
 1,2-Dichloroethane-d4
 Concen: 16.814 ug/l
 RT: 5.04 min Scan# 457
 Delta R.T. 0.02 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

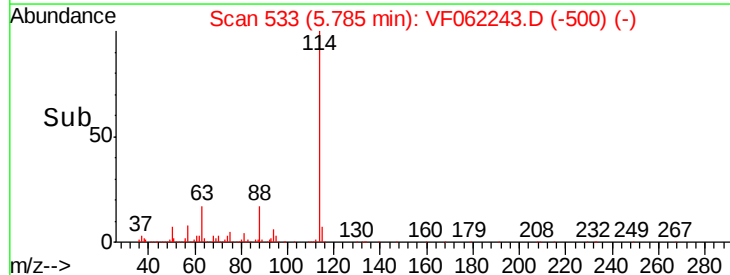
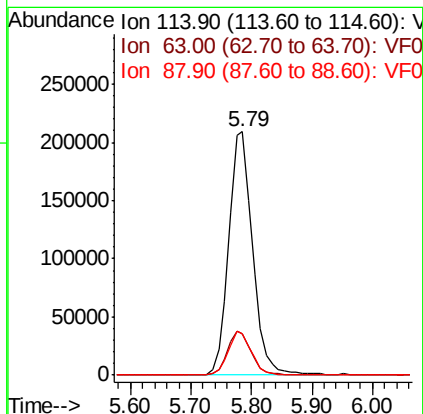
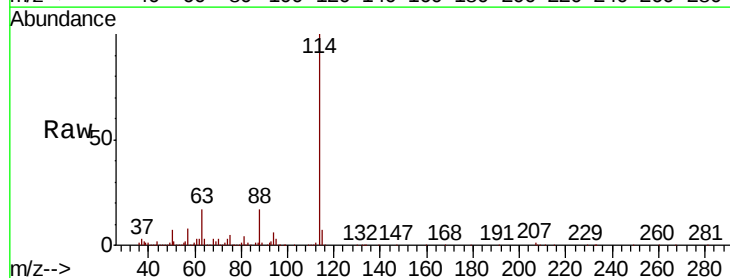
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

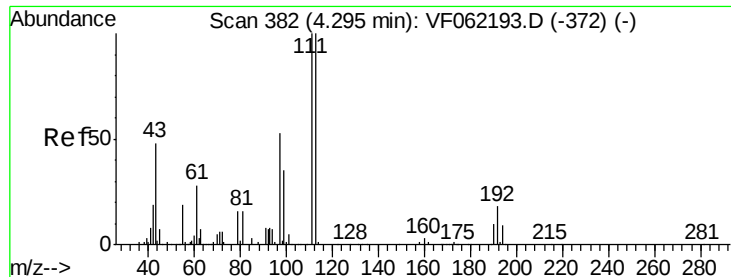
Tot Ion: 65 Resp: 205995
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.79 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion: 114 Resp: 573416
 Ion Ratio Lower Upper
 114 100
 63 17.0 0.0 36.6
 88 16.9 0.0 35.8

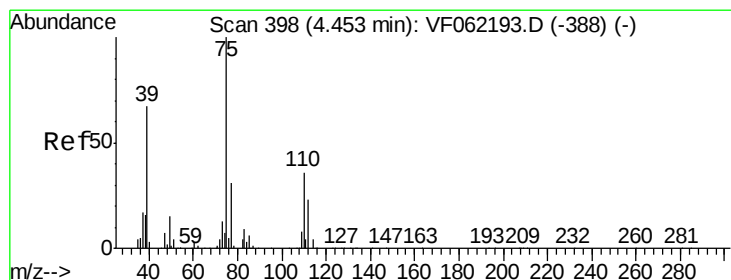
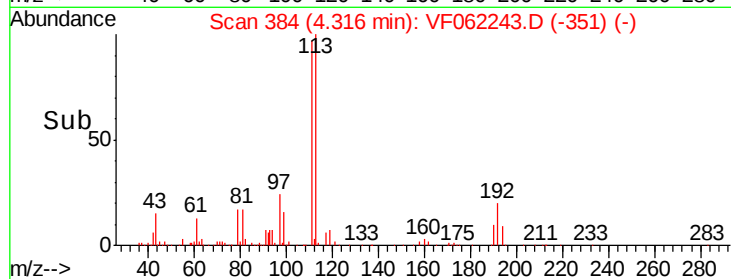
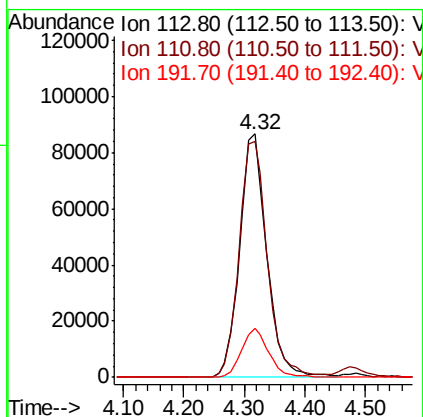
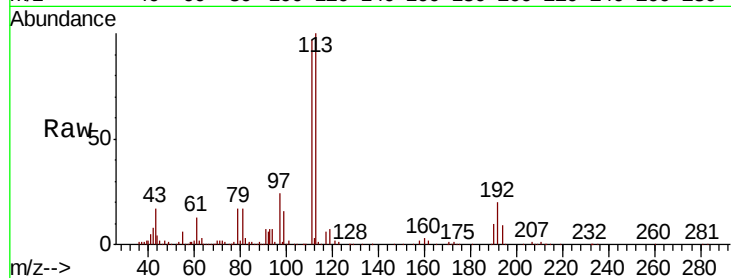




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

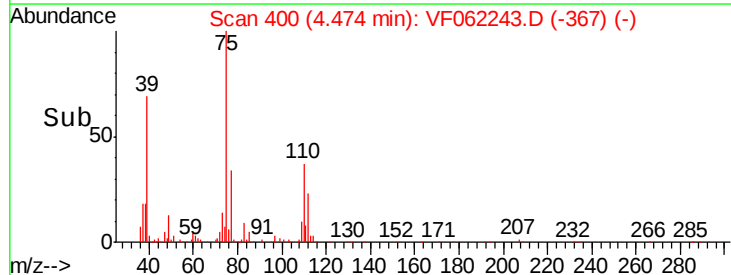
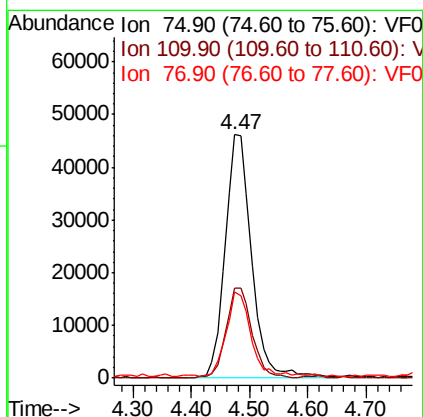
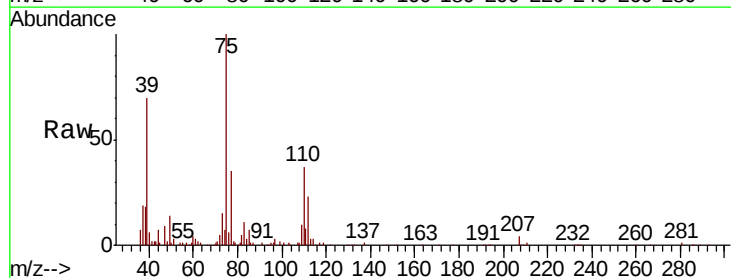
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

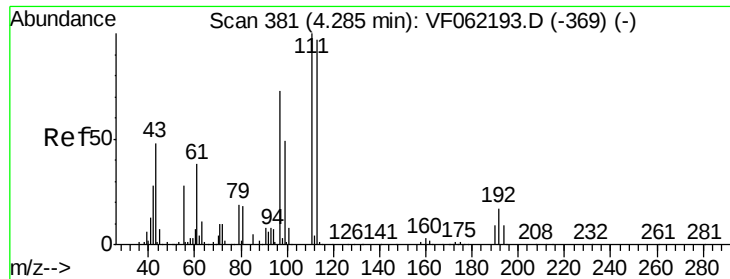
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.1	121.7
192	20.5	14.7	22.1



#36
 1,1-Dichloropropene
 Concen: 21.231 ug/l
 RT: 4.47 min Scan# 400
 Delta R.T. 0.02 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.3	18.4	55.2
77	31.0	25.4	38.2

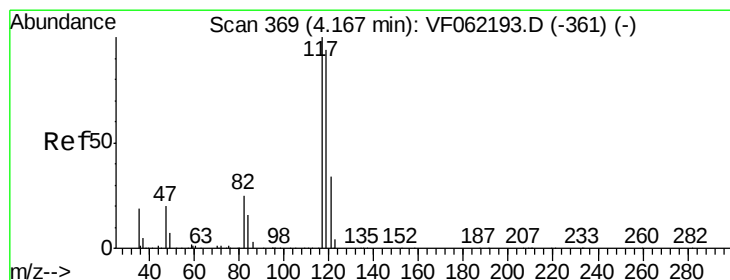
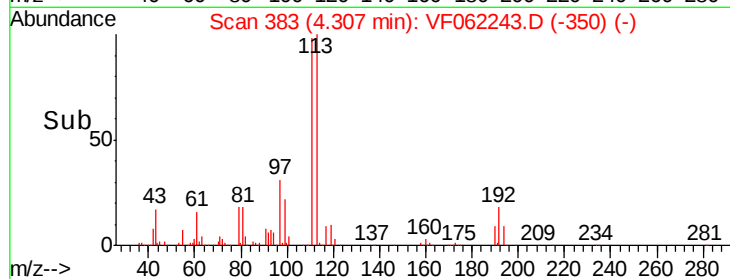
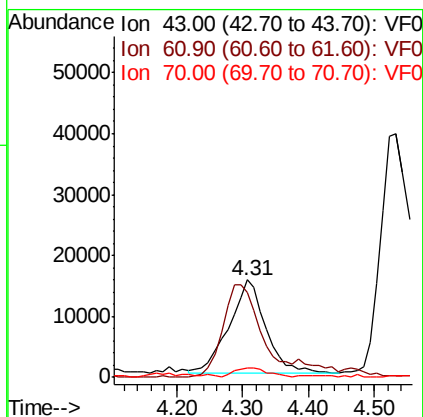
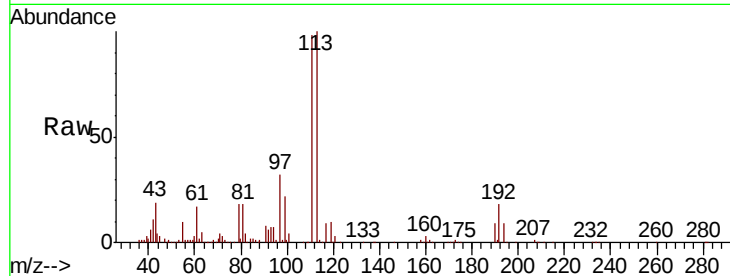




#37
Ethyl Acetate
Concen: 18.391 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

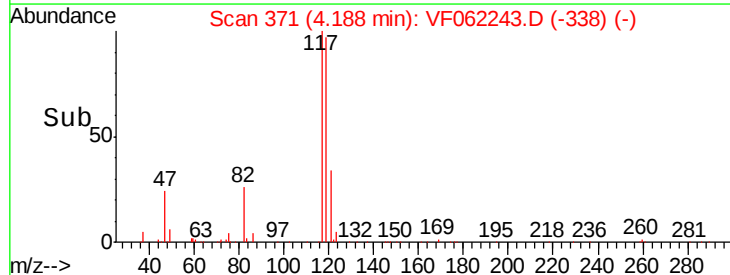
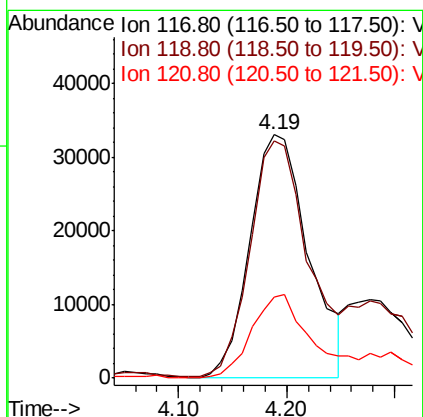
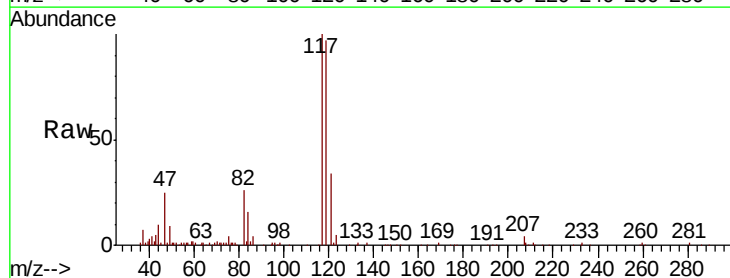
Instrument :
MSVOA_F
ClientSampleId :
VF0422SBS01

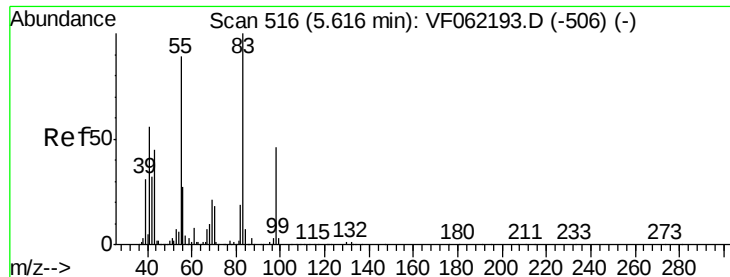
Tot Ion: 43 Resp: 59662
Ion Ratio Lower Upper
43 100
61 103.7 0.0 0.0#
70 9.4 7.8 11.6



#38
Carbon Tetrachloride
Concen: 20.579 ug/l
RT: 4.19 min Scan# 371
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion: 117 Resp: 125227
Ion Ratio Lower Upper
117 100
119 96.4 75.0 112.4
121 33.5 26.9 40.3





#39

Methylcyclohexane

Concen: 20.688 ug/l

RT: 5.64 min Scan# 518

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

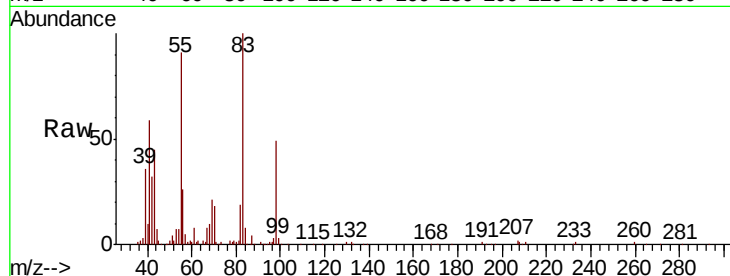
Tot Ion: 83 Resp: 170291

Ion Ratio Lower Upper

83 100

55 90.1 71.0 106.6

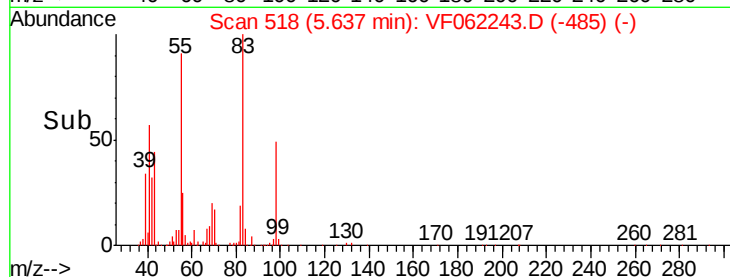
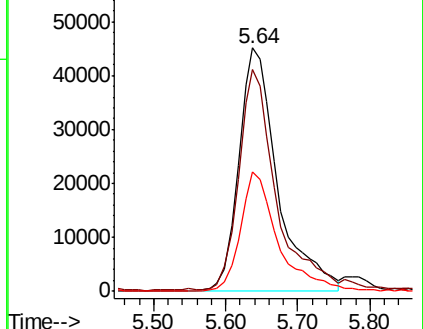
98 49.3 36.7 55.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#40

Benzene

Concen: 21.066 ug/l

RT: 4.83 min Scan# 436

Delta R.T. 0.02 min

Lab File: VF062243.D

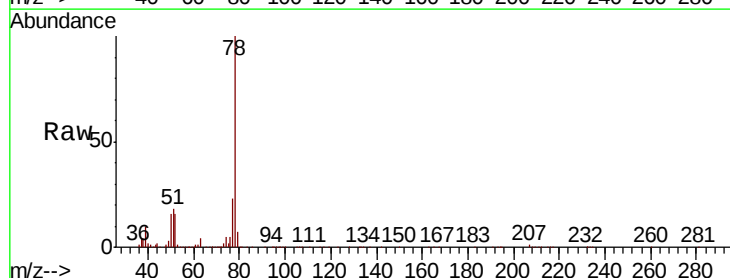
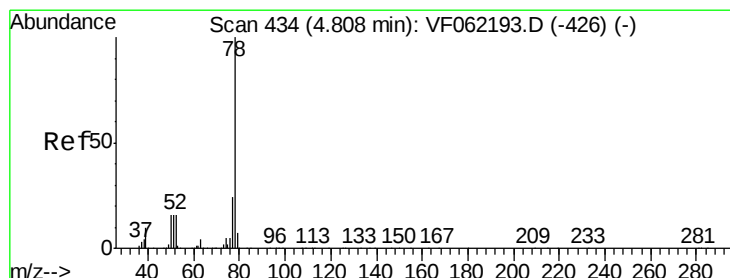
Acq: 22 Apr 2019 14:31

Tgt Ion: 78 Resp: 379874

Ion Ratio Lower Upper

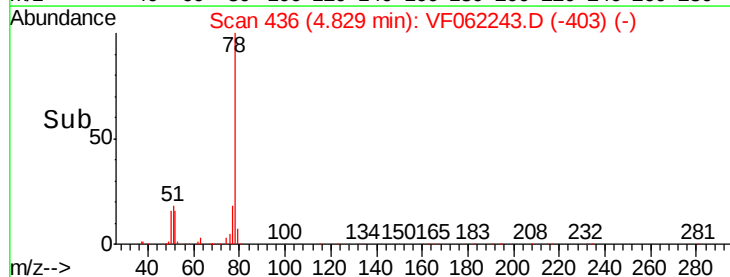
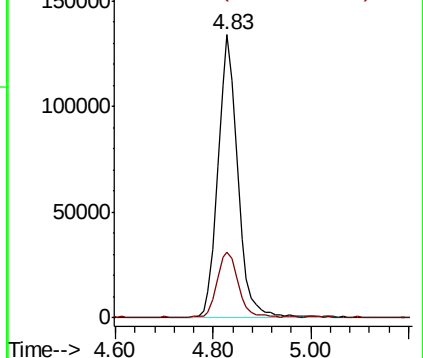
78 100

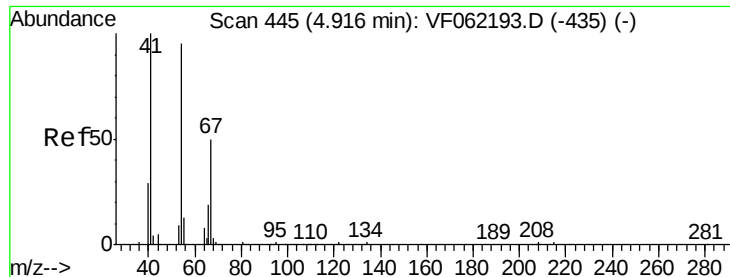
77 22.9 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#41

Methacrylonitrile

Concen: 20.656 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

Tot Ion: 41 Resp: 38654

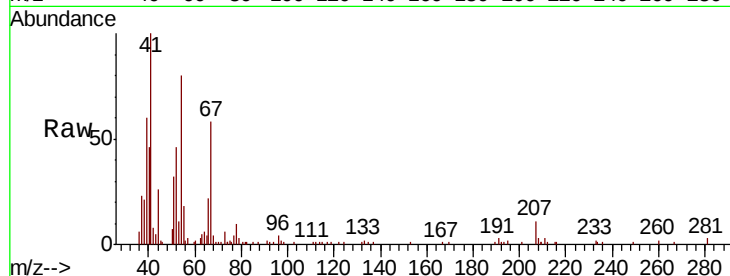
Ion Ratio Lower Upper

41 100

39 49.7 44.7 67.1

67 50.8 39.1 58.7

52 65.1 49.8 74.8

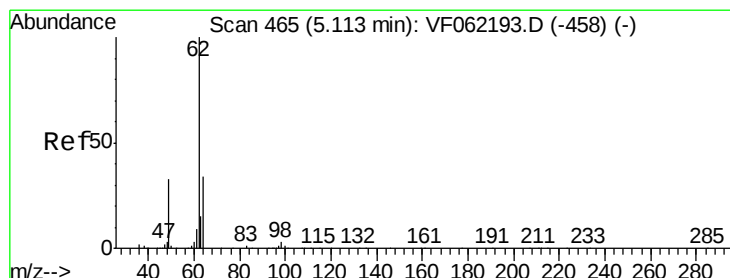
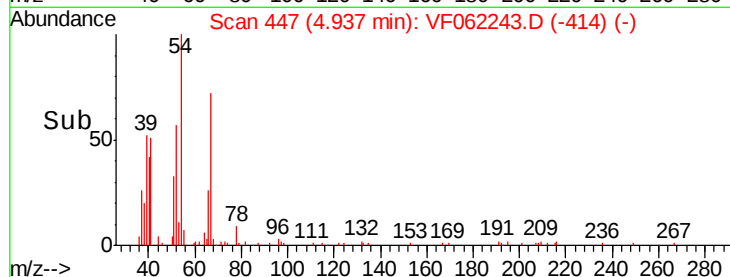
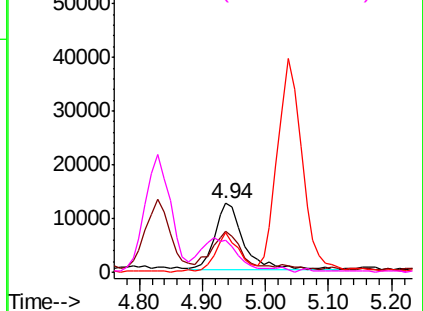


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#42

1,2-Dichloroethane

Concen: 21.834 ug/l

RT: 5.13 min Scan# 467

Delta R.T. 0.02 min

Lab File: VF062243.D

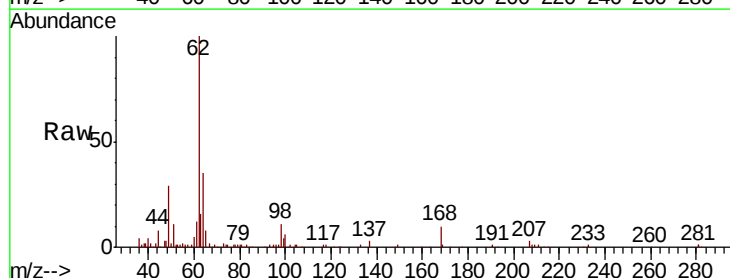
Acq: 22 Apr 2019 14:31

Tgt Ion: 62 Resp: 104086

Ion Ratio Lower Upper

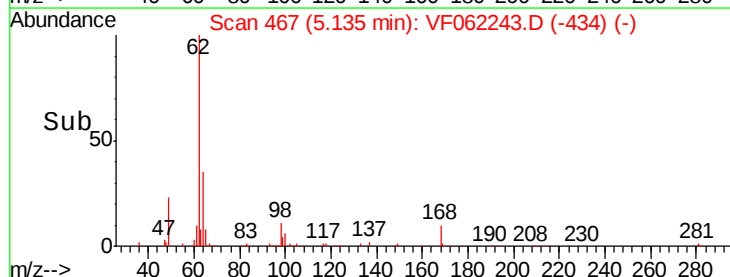
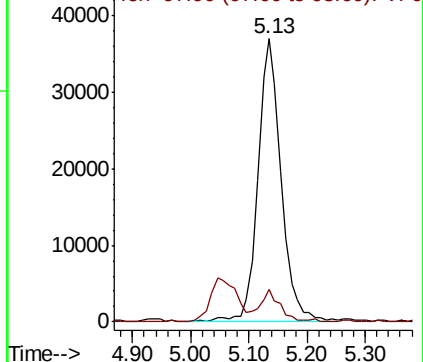
62 100

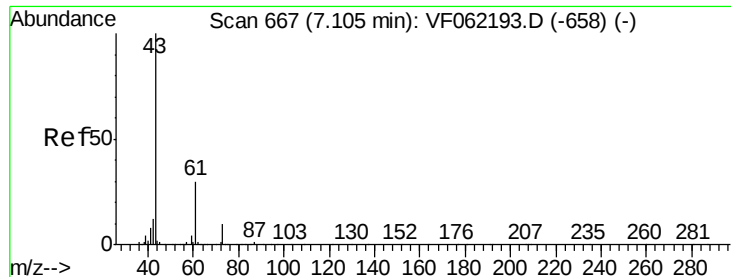
98 8.5 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VF0

Ion 97.90 (97.60 to 98.60): VF0



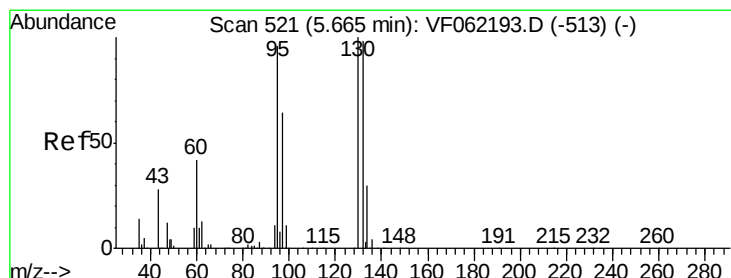
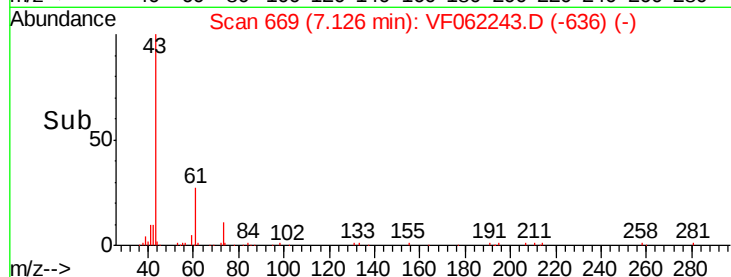
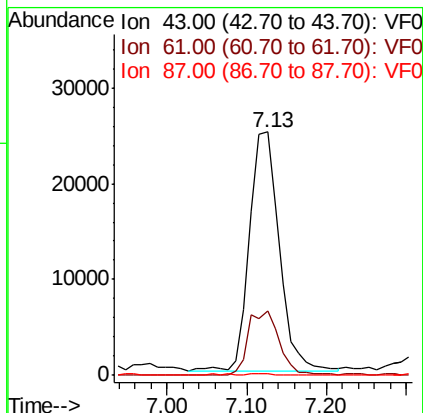
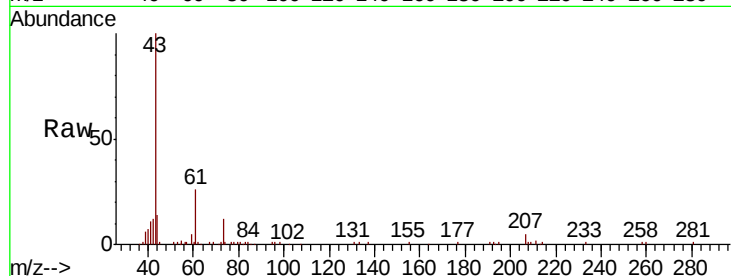


#43

Isopropyl Acetate
 Concen: 18.723 ug/l
 RT: 7.13 min Scan# 669
 Delta R.T. 0.02 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

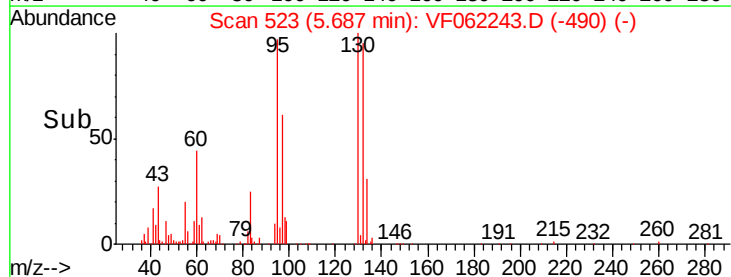
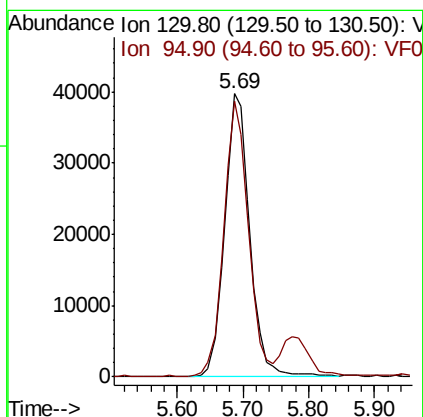
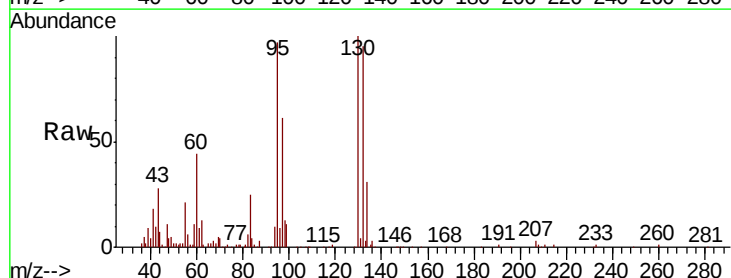
Tot Ion: 43 Resp: 63884
 Ion Ratio Lower Upper
 43 100
 61 28.0 24.4 36.6
 87 0.4 0.4 0.6

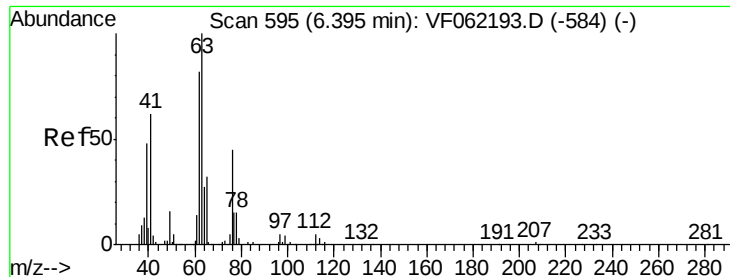


#44

Trichloroethene
 Concen: 21.729 ug/l
 RT: 5.69 min Scan# 523
 Delta R.T. 0.02 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion: 130 Resp: 105879
 Ion Ratio Lower Upper
 130 100
 95 96.9 0.0 191.4





#45

1,2-Dichloropropane

Concen: 19.019 ug/l

RT: 6.42 min Scan# 597

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

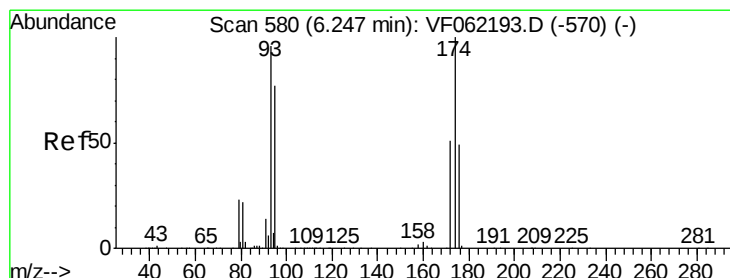
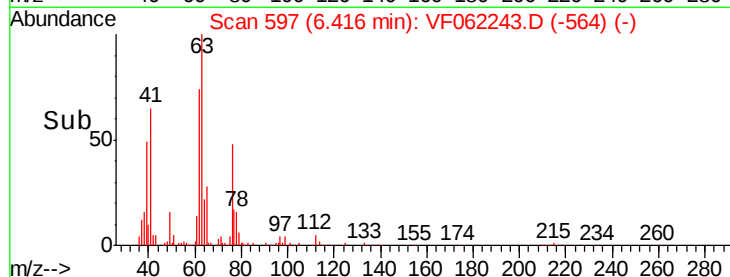
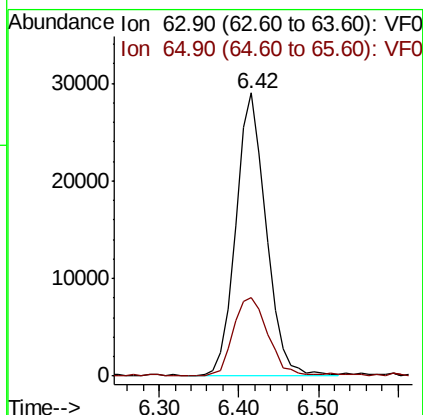
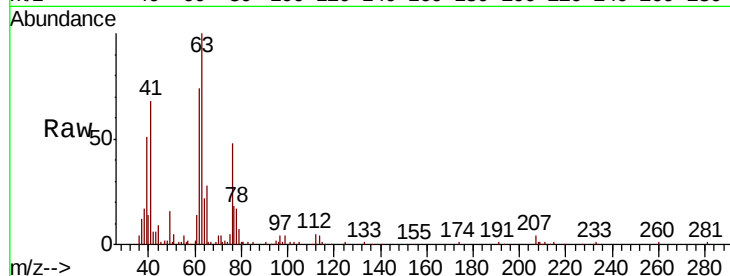
VF0422SBS01

Tot Ion: 63 Resp: 75546

Ion Ratio Lower Upper

63 100

65 27.7 25.9 38.9



#46

Dibromomethane

Concen: 19.854 ug/l

RT: 6.27 min Scan# 582

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

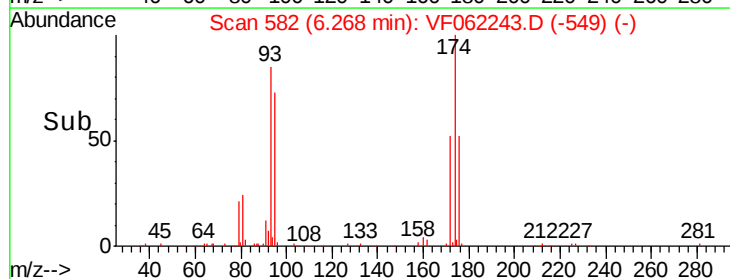
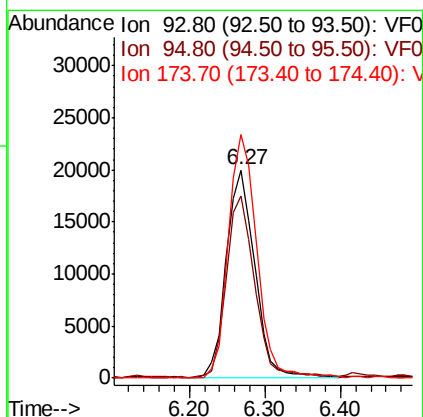
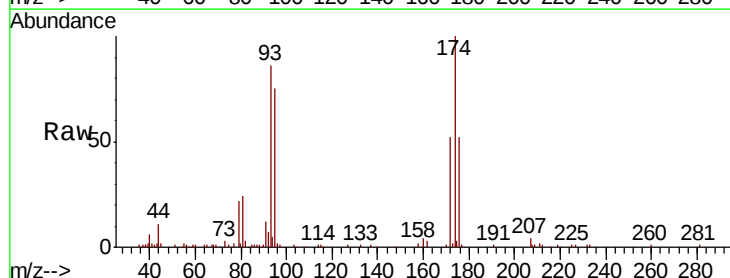
Tgt Ion: 93 Resp: 52469

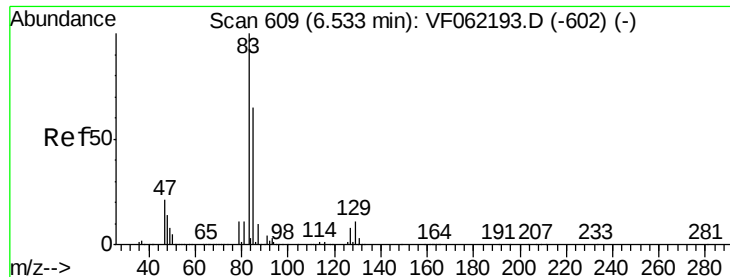
Ion Ratio Lower Upper

93 100

95 86.1 65.1 97.7

174 116.0 81.8 122.6





#47

Bromodichloromethane

Concen: 20.914 ug/l

RT: 6.55 min Scan# 611

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

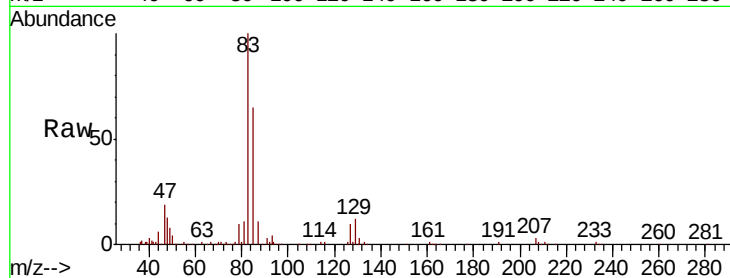
Tot Ion: 83 Resp: 124726

Ion Ratio Lower Upper

83 100

85 65.0 52.2 78.4

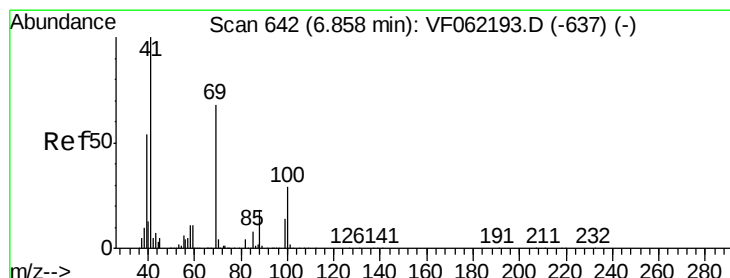
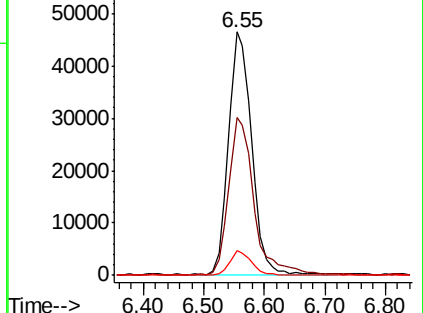
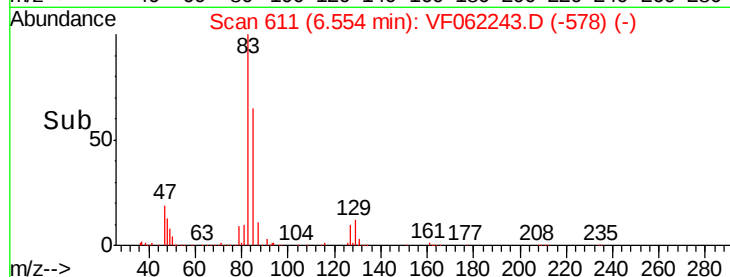
127 10.0 6.7 10.1



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 19.160 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

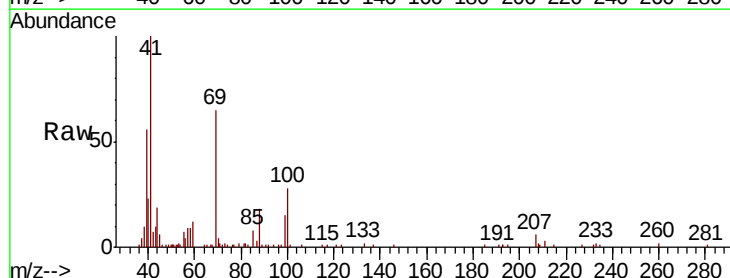
Tgt Ion: 41 Resp: 42964

Ion Ratio Lower Upper

41 100

69 65.2 54.9 82.3

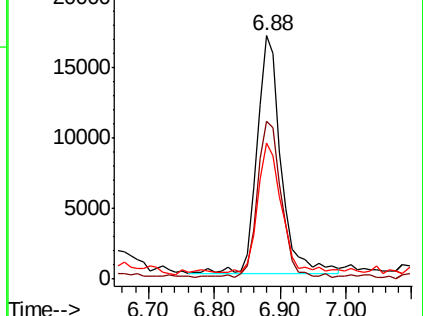
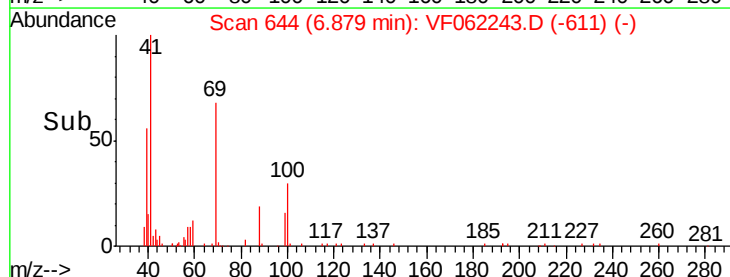
39 53.9 43.6 65.4

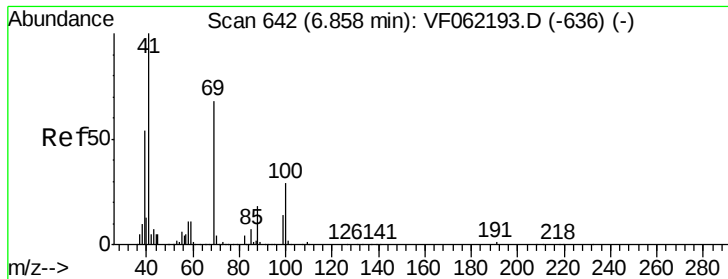


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

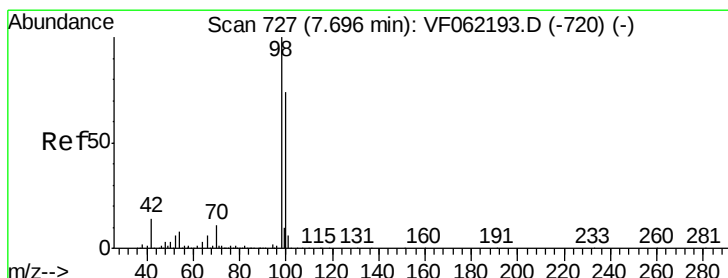
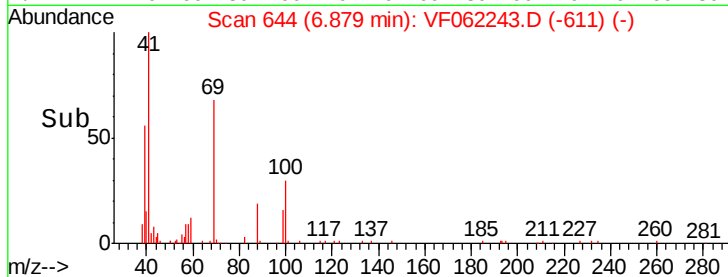
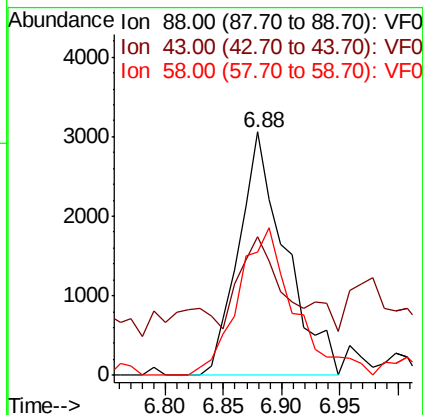
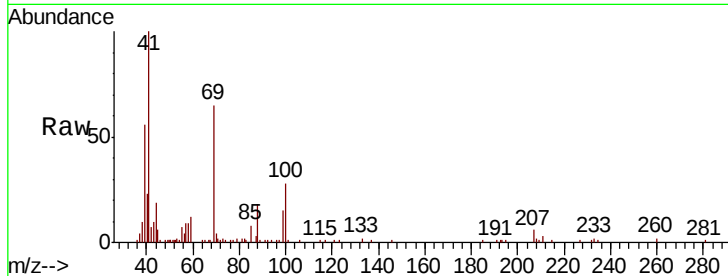




#49
 1,4-Dioxane
 Concen: 331.308 ug/l
 RT: 6.88 min Scan# 644
 Delta R.T. 0.02 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

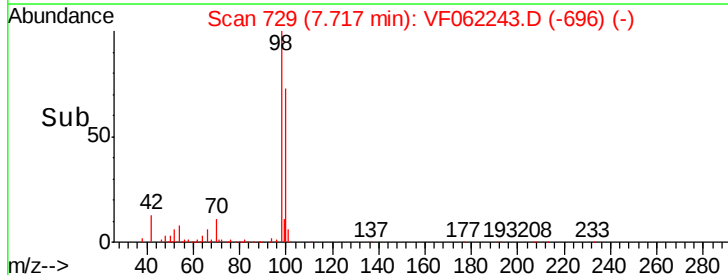
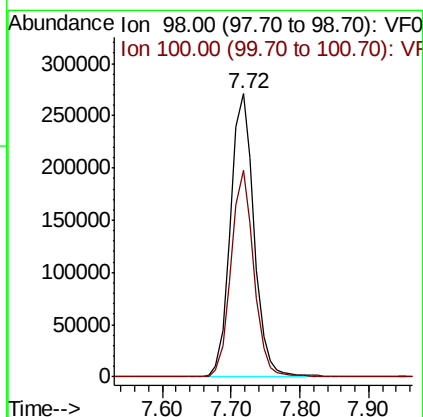
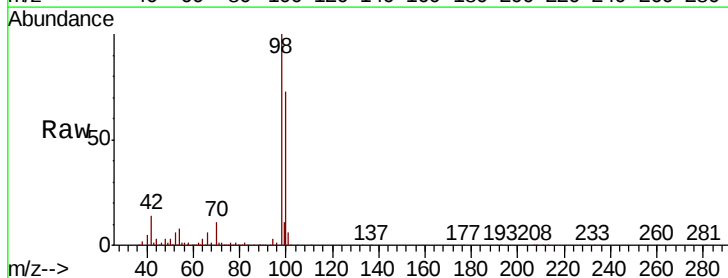
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

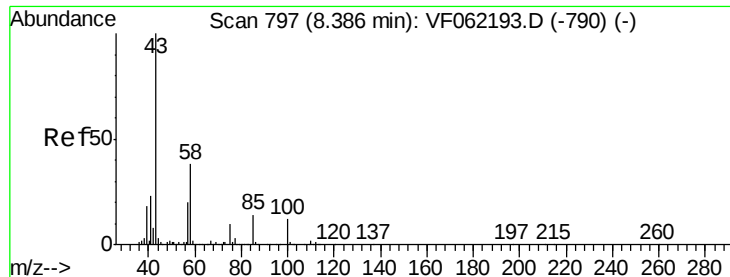
Tot Ion: 88 Resp: 8520
 Ion Ratio Lower Upper
 88 100
 43 37.6 36.9 55.3
 58 72.5 56.8 85.2



#50
 Toluene-d8
 Concen: 331.308 ug/l
 RT: 7.72 min Scan# 729
 Delta R.T. 0.02 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion: 98 Resp: 643620
 Ion Ratio Lower Upper
 98 100
 100 70.3 56.2 84.2





#51

4-Methyl-2-Pentanone

Concen: 99.021 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

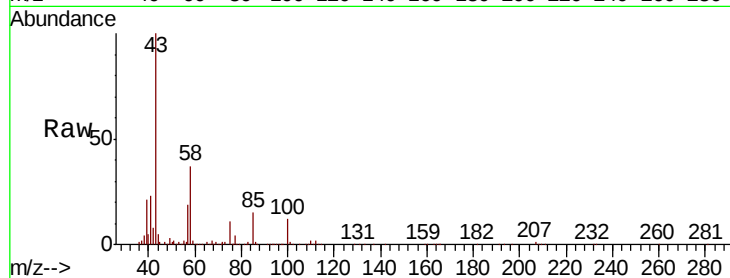
VF0422SBS01

Tot Ion: 43 Resp: 251299

Ion Ratio Lower Upper

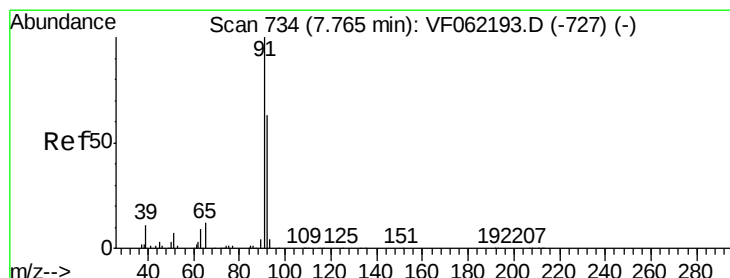
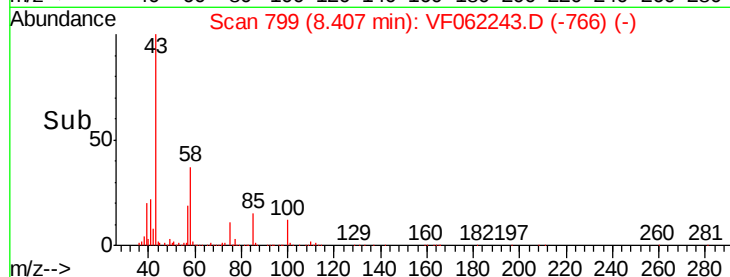
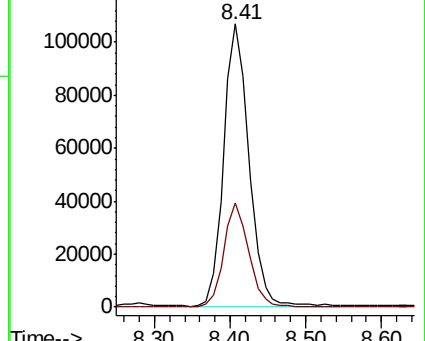
43 100

58 35.8 29.3 43.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.642 ug/l

RT: 7.79 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF062243.D

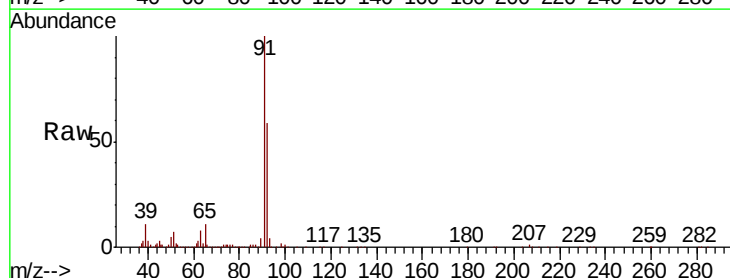
Acq: 22 Apr 2019 14:31

Tgt Ion: 92 Resp: 196216

Ion Ratio Lower Upper

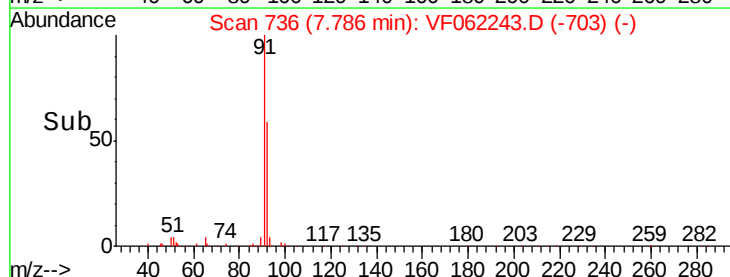
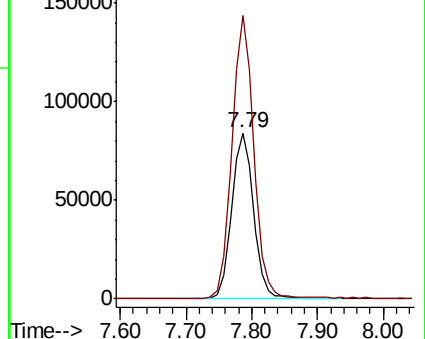
92 100

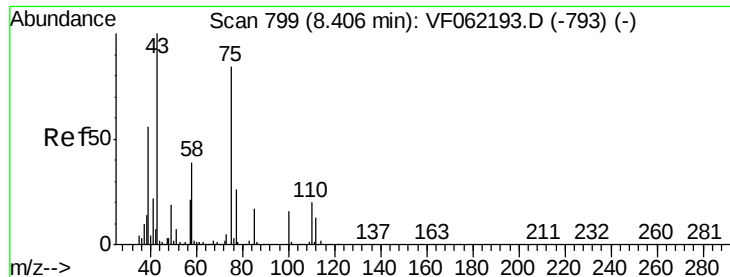
91 170.1 130.1 195.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

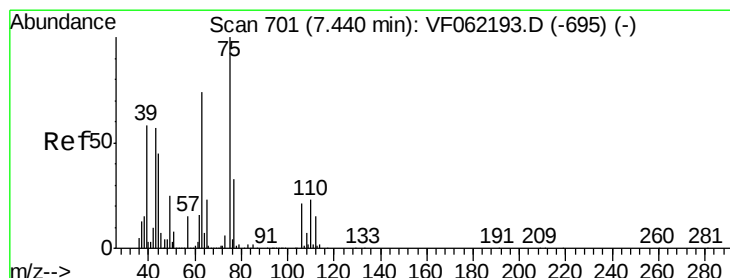
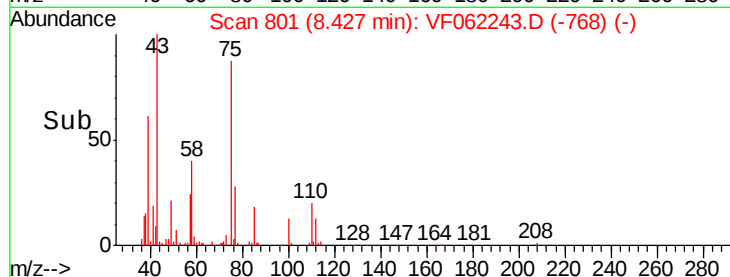
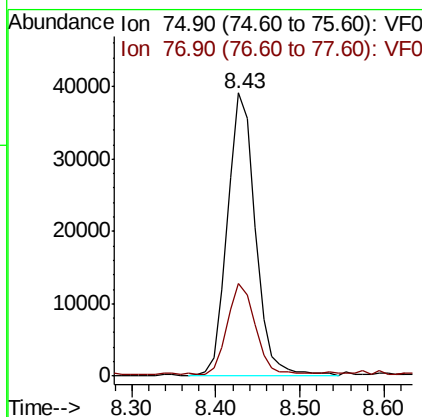
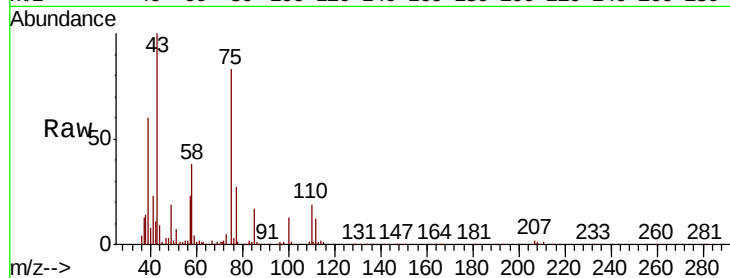




#53
 t-1,3-Dichloropropene
 Concen: 20.355 ug/l
 RT: 8.43 min Scan# 801
 Delta R.T. 0.02 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

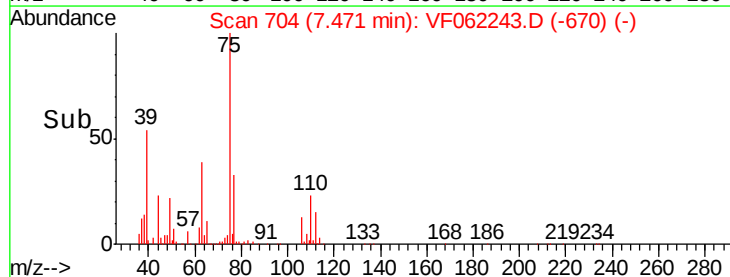
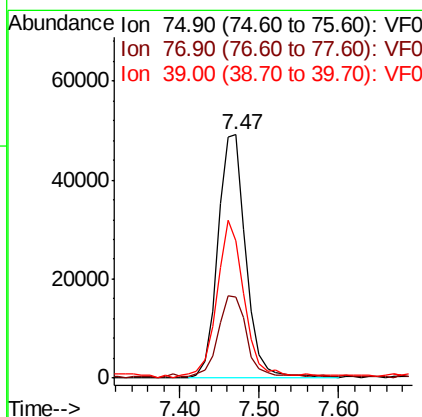
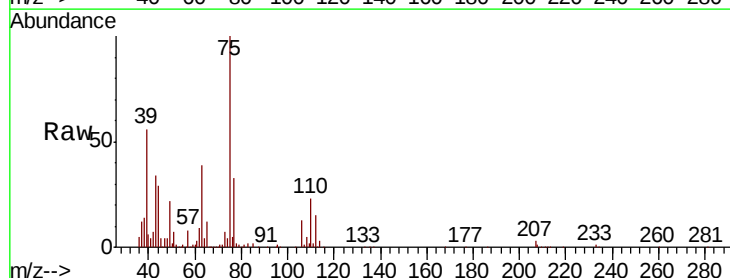
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

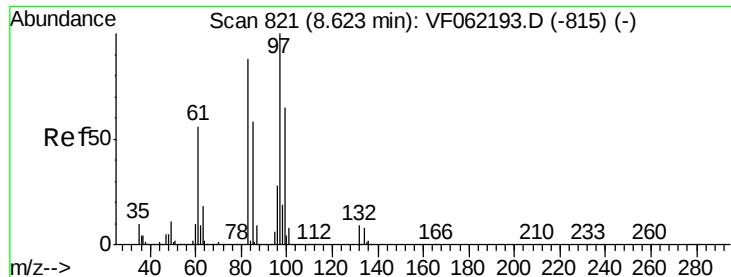
Tot Ion: 75 Resp: 91177
 Ion Ratio Lower Upper
 75 100
 77 31.6 24.6 36.8



#54
 cis-1,3-Dichloropropene
 Concen: 20.143 ug/l
 RT: 7.47 min Scan# 704
 Delta R.T. 0.03 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion: 75 Resp: 122043
 Ion Ratio Lower Upper
 75 100
 77 32.7 26.4 39.6
 39 54.8 46.7 70.1





#55

1,1,2-Trichloroethane

Concen: 21.064 ug/l

RT: 8.64 min Scan# 823

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

Tot Ion: 97 Resp: 56091

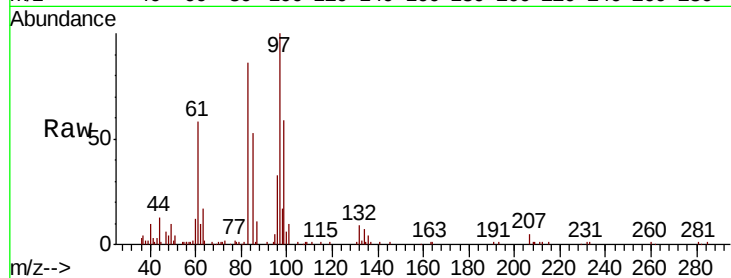
Ion Ratio Lower Upper

97 100

83 85.2 70.2 105.2

85 53.1 46.2 69.4

99 59.2 52.2 78.4

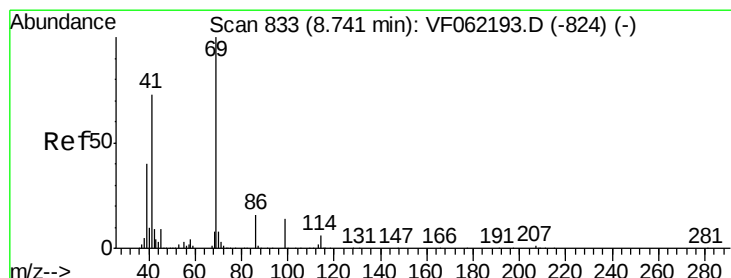
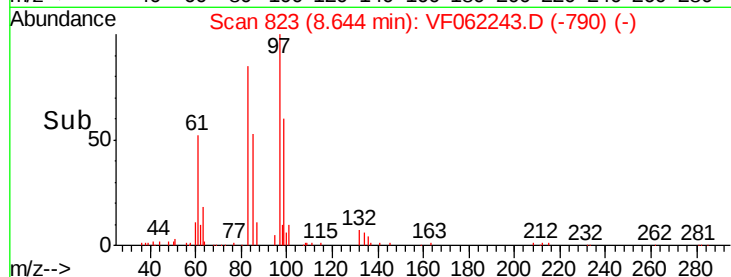
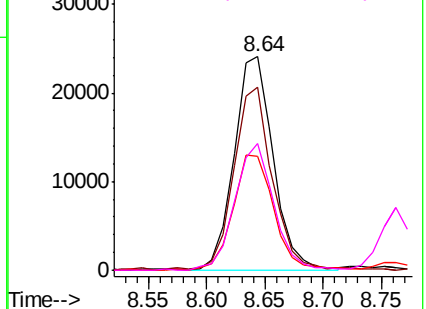


Abundance Ion 96.90 (96.60 to 97.60): VF0

Ion 82.90 (82.60 to 83.60): VF0

Ion 84.90 (84.60 to 85.60): VF0

Ion 98.90 (98.60 to 99.60): VF0



#56

Ethyl methacrylate

Concen: 20.790 ug/l

RT: 8.76 min Scan# 835

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

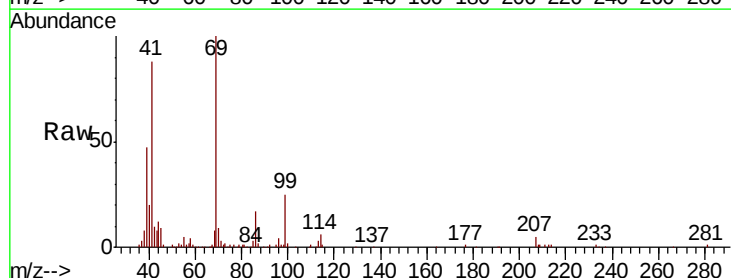
Tgt Ion: 69 Resp: 62944

Ion Ratio Lower Upper

69 100

41 81.7 61.5 92.3

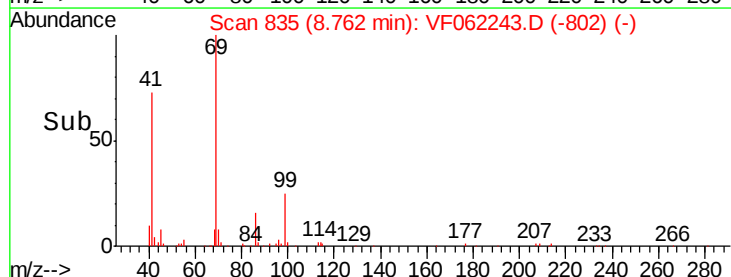
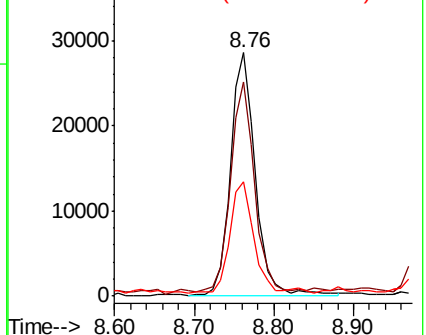
39 42.6 33.3 49.9

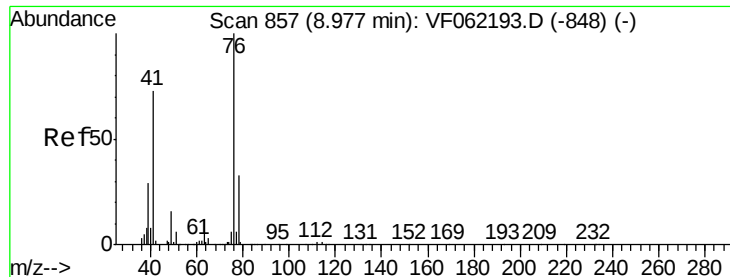


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 20.779 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

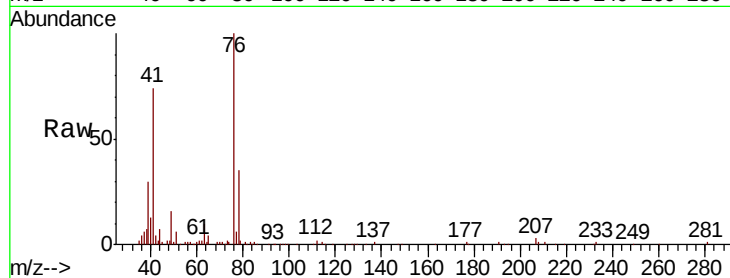
VF0422SBS01

Tot Ion: 76 Resp: 89347

Ion Ratio Lower Upper

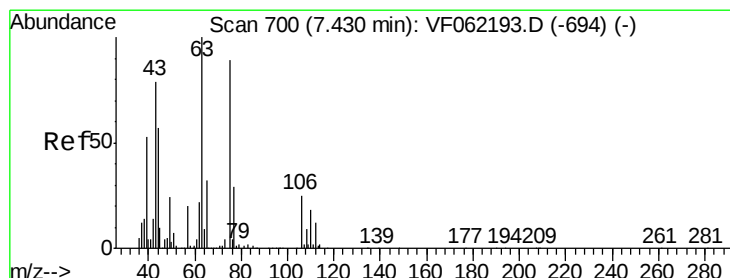
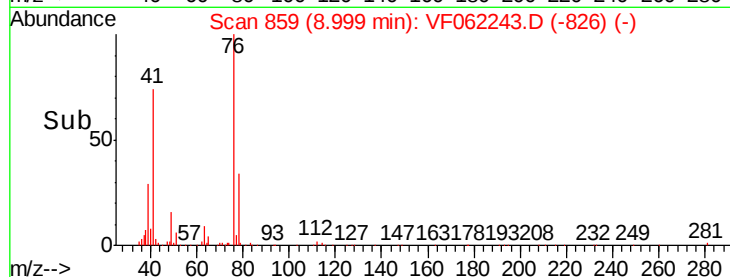
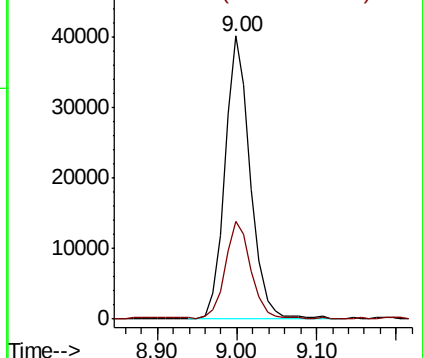
76 100

78 34.6 26.5 39.7



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 87.541 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.02 min

Lab File: VF062243.D

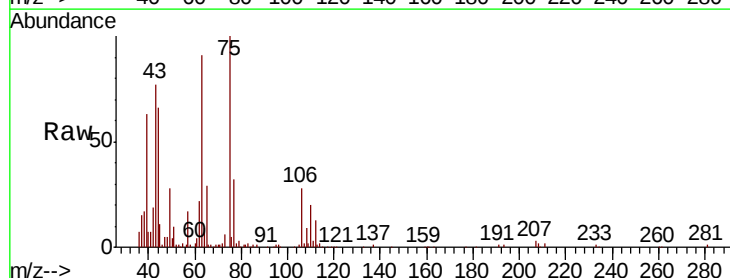
Acq: 22 Apr 2019 14:31

Tgt Ion: 63 Resp: 76948

Ion Ratio Lower Upper

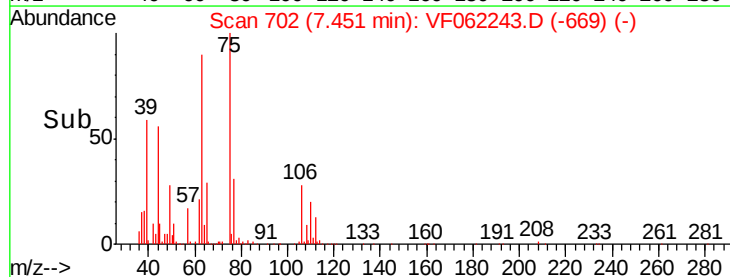
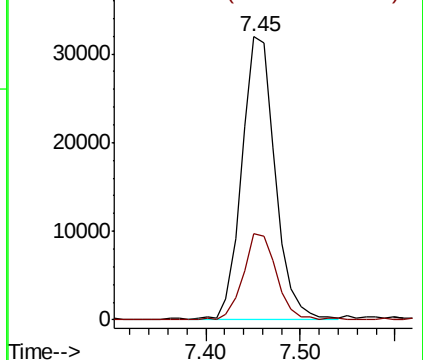
63 100

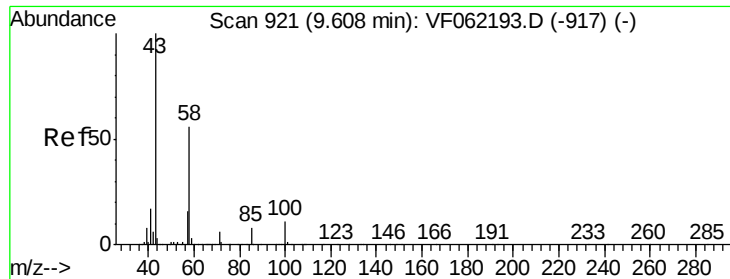
106 30.7 21.4 32.0



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

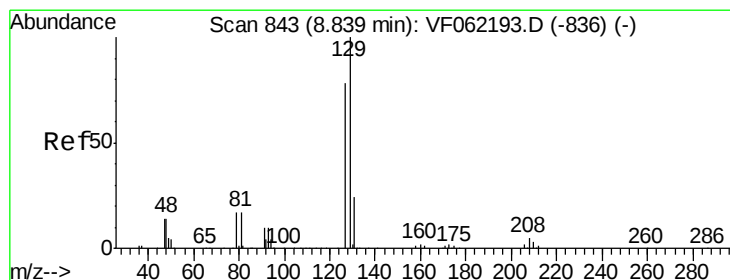
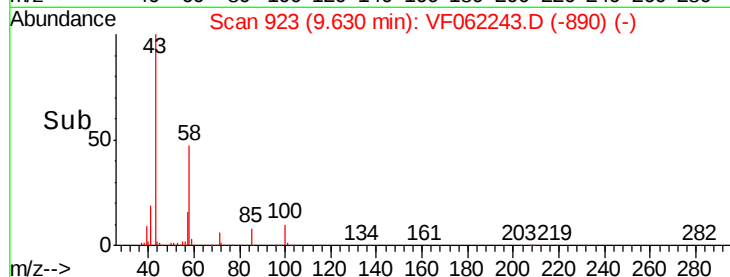
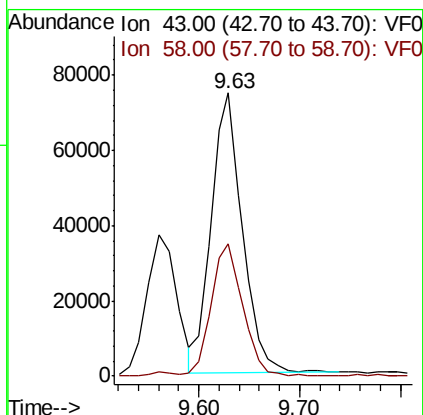
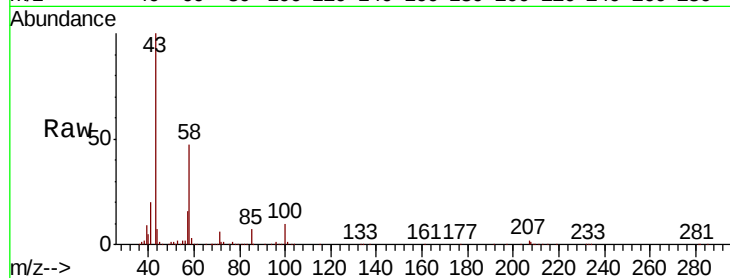




#59
2-Hexanone
Concen: 101.417 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

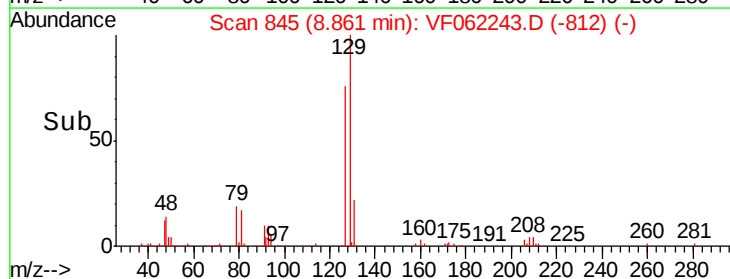
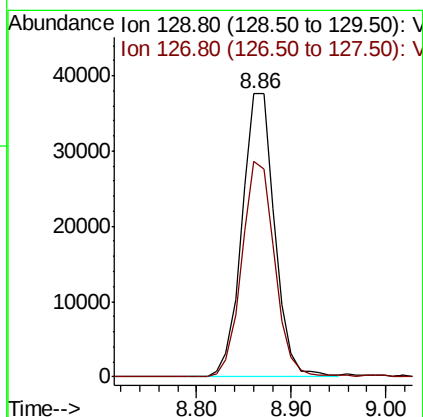
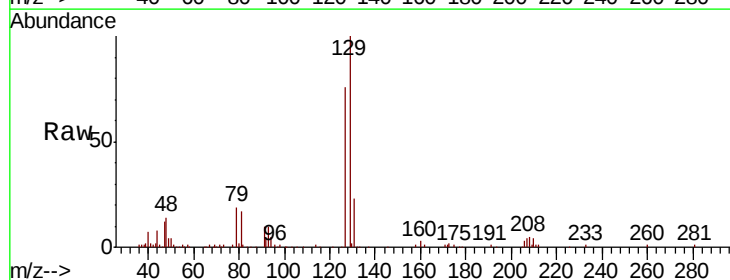
Instrument :
MSVOA_F
ClientSampleId :
VF0422SBS01

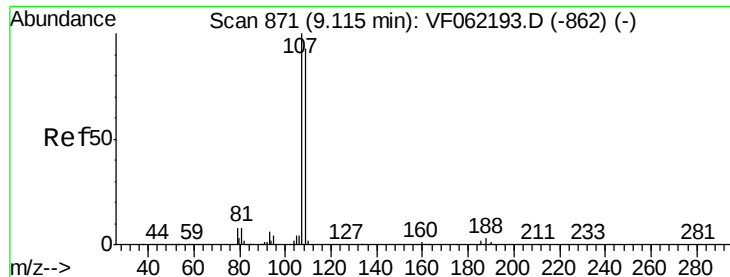
Tot Ion: 43 Resp: 160373
Ion Ratio Lower Upper
43 100
58 47.6 24.6 74.0



#60
Dibromochloromethane
Concen: 22.739 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion: 129 Resp: 90049
Ion Ratio Lower Upper
129 100
127 76.4 39.0 117.0





#61

1,2-Dibromoethane

Concen: 21.082 ug/l

RT: 9.14 min Scan# 873

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

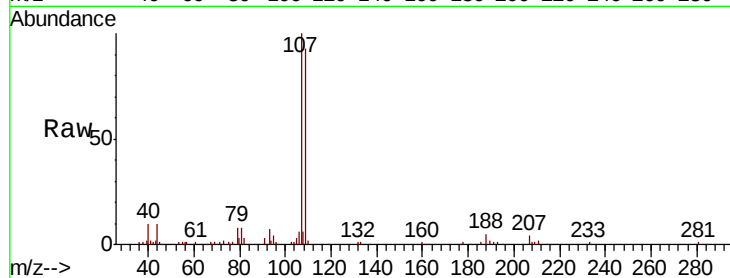
VF0422SBSD01

Tot Ion:107 Resp: 63246

Ion Ratio Lower Upper

107 100

109 97.8 74.3 111.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

30000

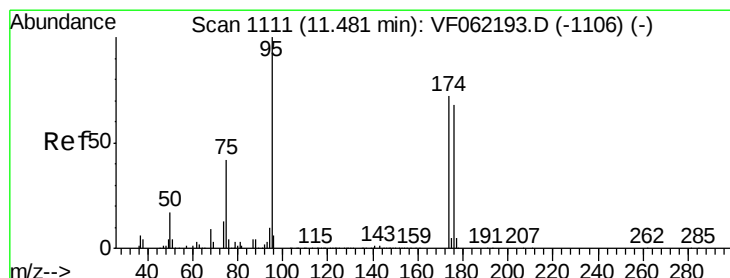
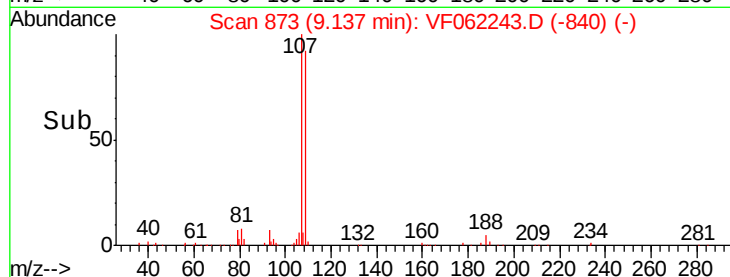
20000

10000

0

Time--> 9.00 9.10 9.20

9.14



#62

4-Bromofluorobenzene

Concen: 21.082 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

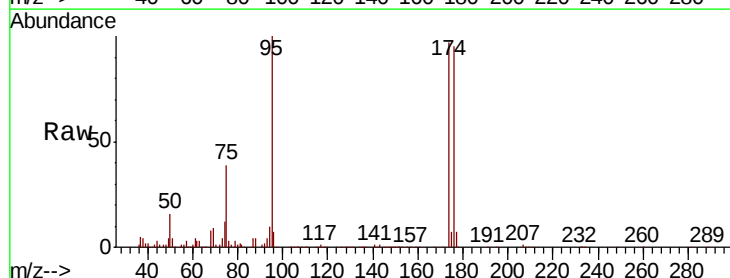
Tgt Ion: 95 Resp: 257477

Ion Ratio Lower Upper

95 100

174 89.9 0.0 159.4

176 88.2 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

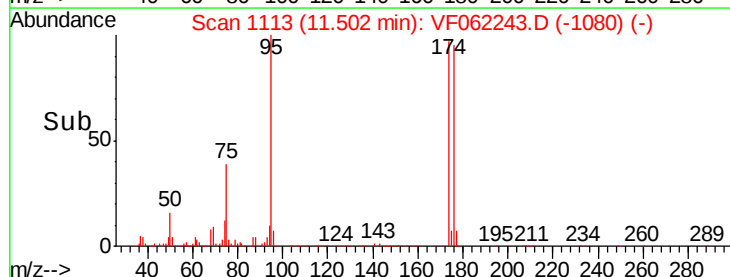
100000

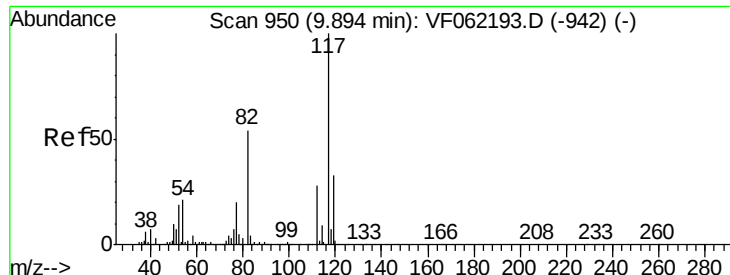
50000

0

Time--> 11.40 11.50 11.60

11.50

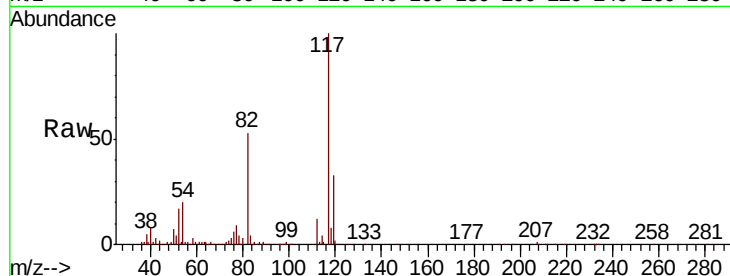




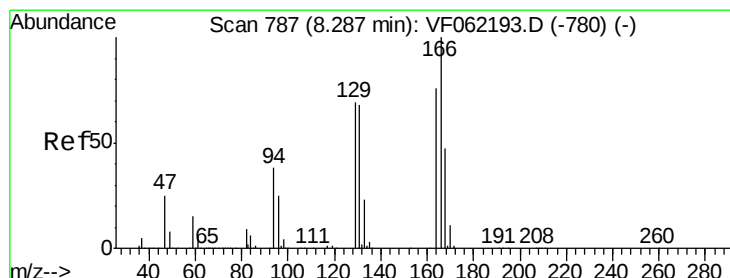
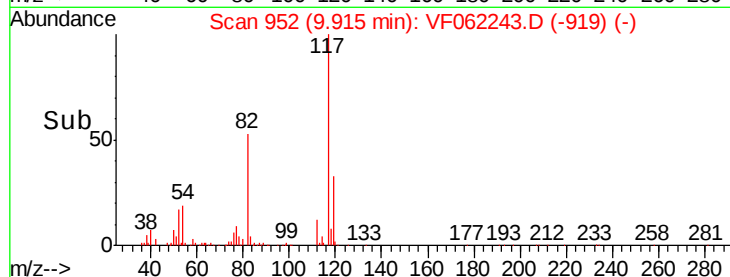
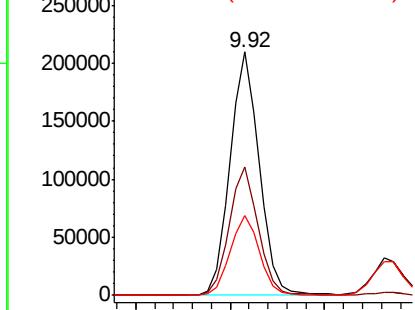
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Instrument :
MSVOA_F
ClientSampleId :
VF0422SBS01

Tot Ion:117 Resp: 448607
Ion Ratio Lower Upper
117 100
82 52.5 43.2 64.8
119 32.5 26.2 39.4

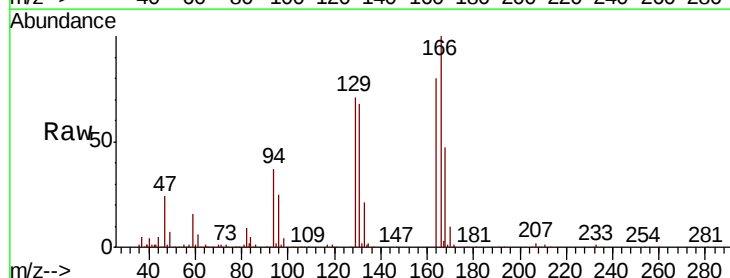


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

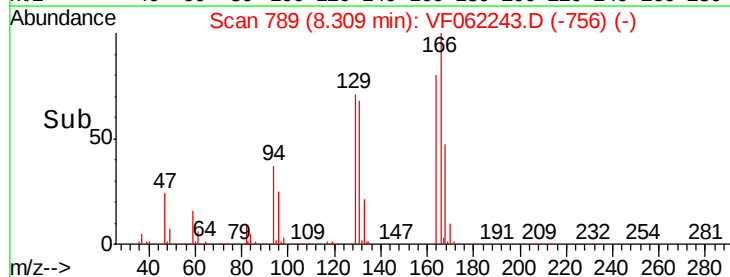
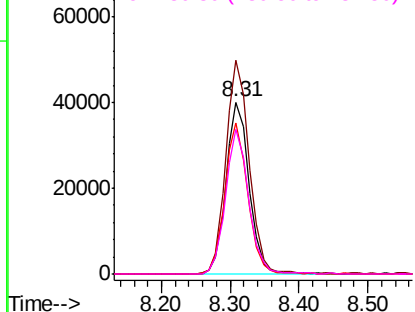


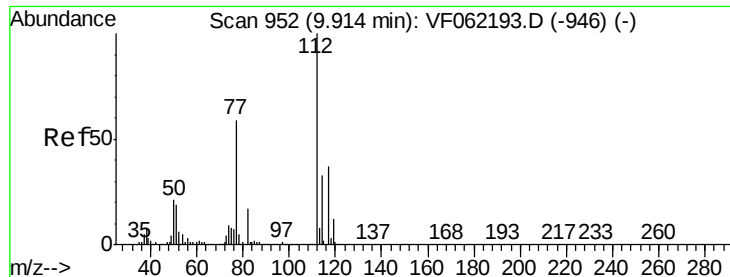
#64
Tetrachloroethene
Concen: 22.861 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion:164 Resp: 92580
Ion Ratio Lower Upper
164 100
166 124.3 104.7 157.1
129 87.8 72.6 109.0
131 83.9 71.6 107.4



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 20.928 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

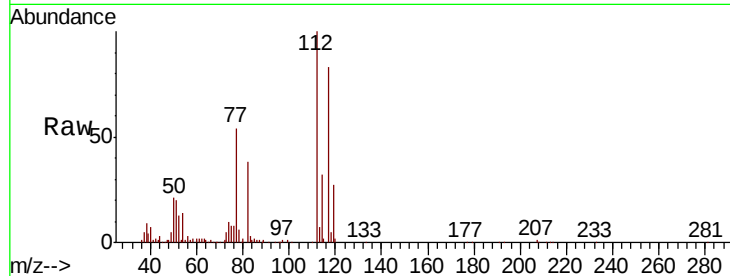
VF0422SBS01

Tot Ion:112 Resp: 200186

Ion Ratio Lower Upper

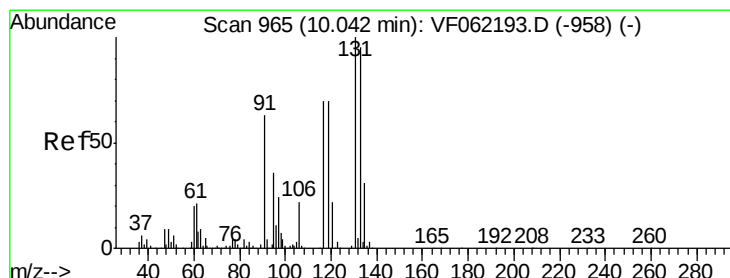
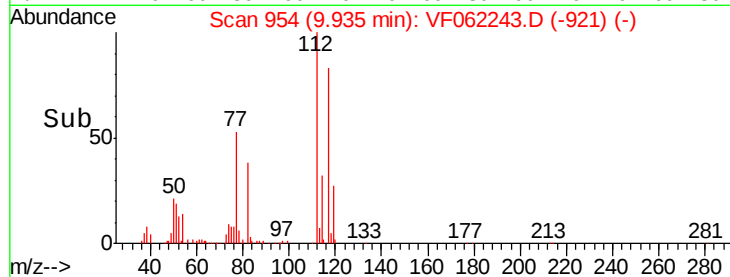
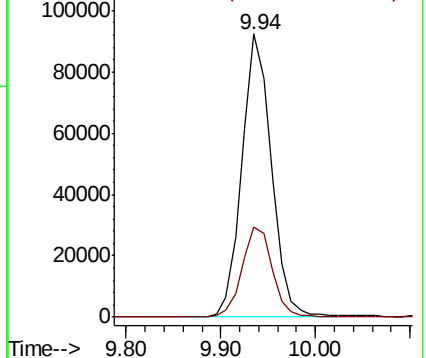
112 100

114 31.8 26.1 39.1



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.617 ug/l

RT: 10.07 min Scan# 968

Delta R.T. 0.03 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

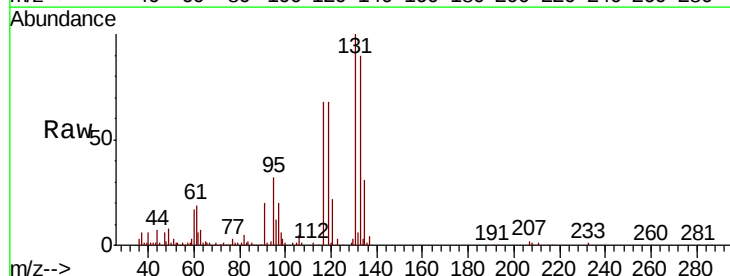
Tgt Ion:131 Resp: 101314

Ion Ratio Lower Upper

131 100

133 91.7 47.7 143.1

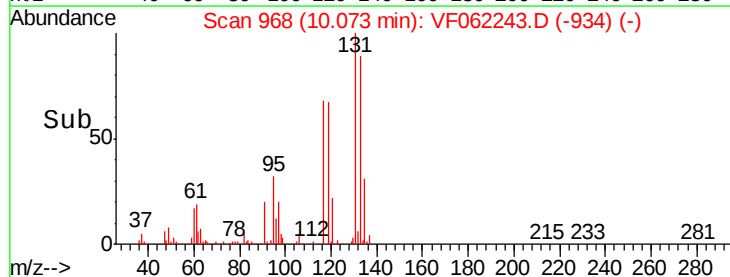
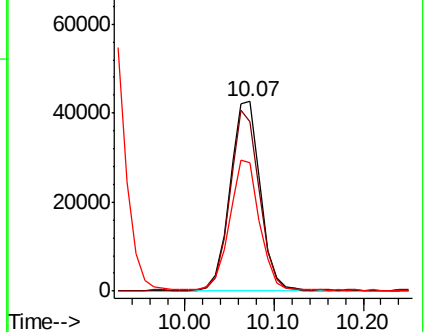
119 70.4 34.6 103.9

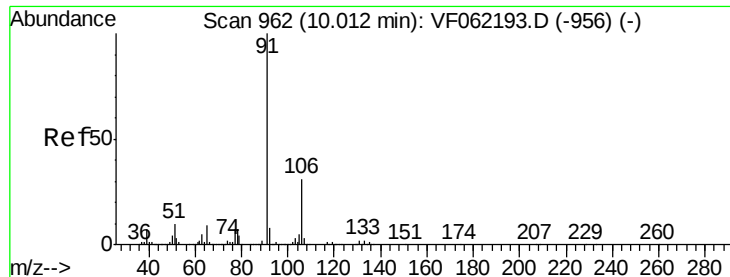


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 21.488 ug/l

RT: 10.03 min Scan# 964

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

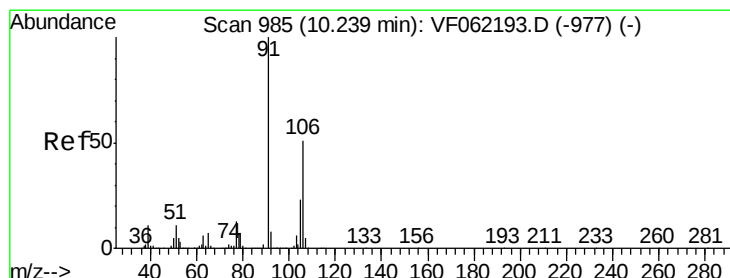
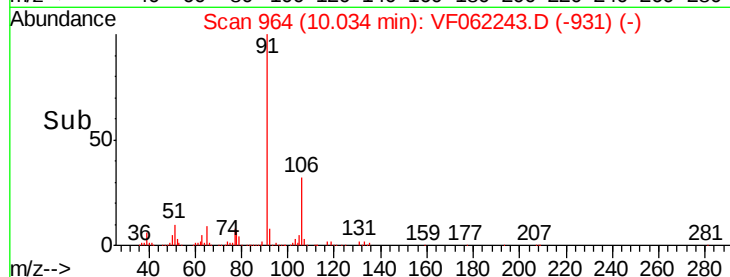
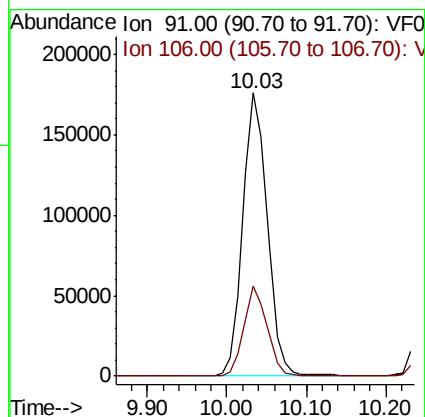
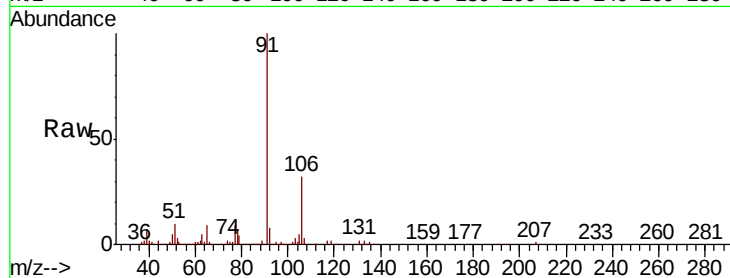
VF0422SBS01

Tot Ion: 91 Resp: 373752

Ion Ratio Lower Upper

91 100

106 31.8 24.9 37.3



#68

m/p-Xylenes

Concen: 43.979 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.02 min

Lab File: VF062243.D

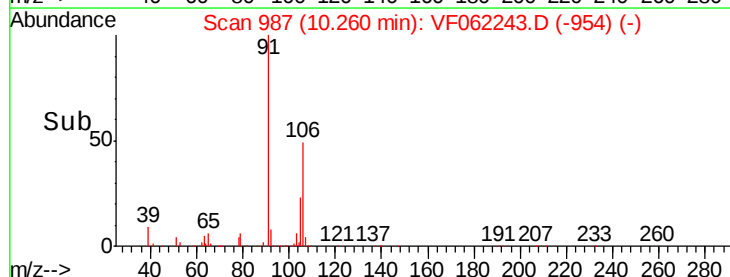
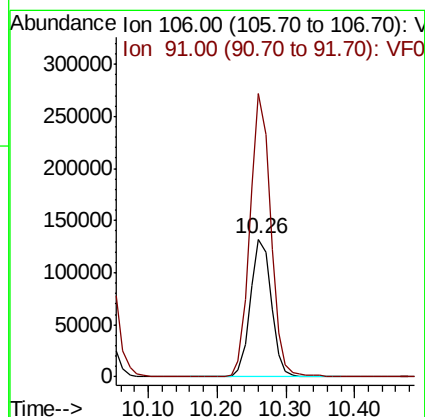
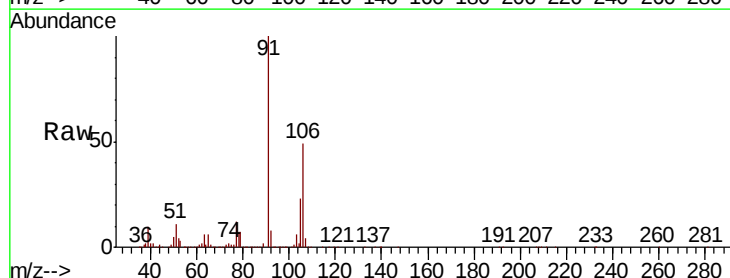
Acq: 22 Apr 2019 14:31

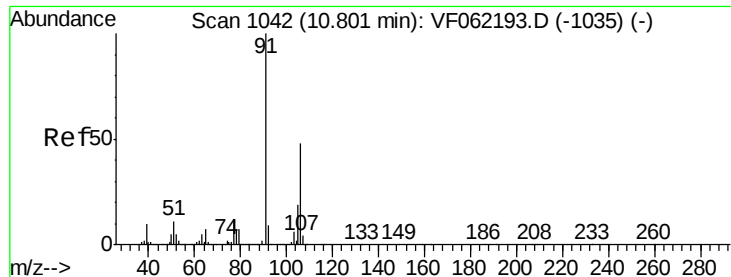
Tgt Ion:106 Resp: 281601

Ion Ratio Lower Upper

106 100

91 202.3 159.1 238.7

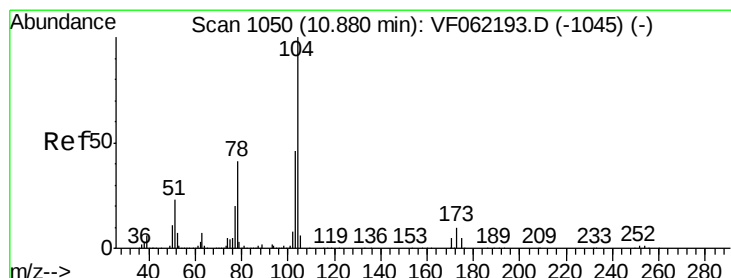
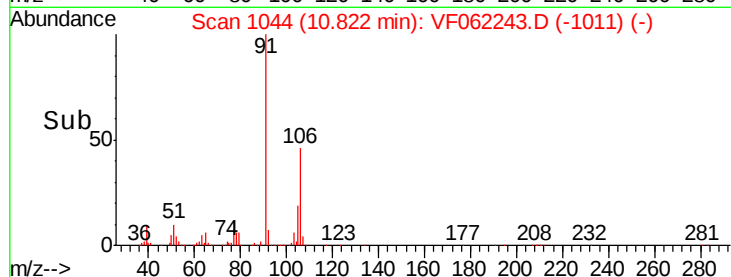
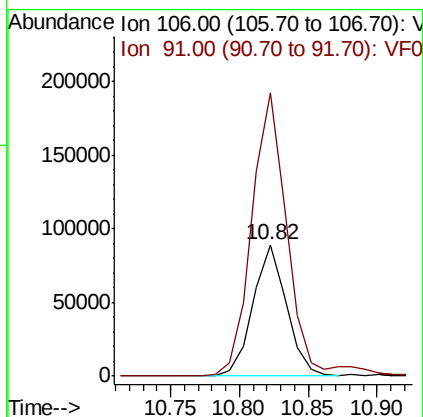
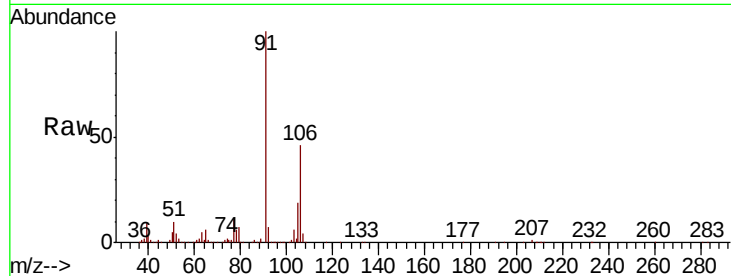




#69
o-Xylene
Concen: 21.422 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.02 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

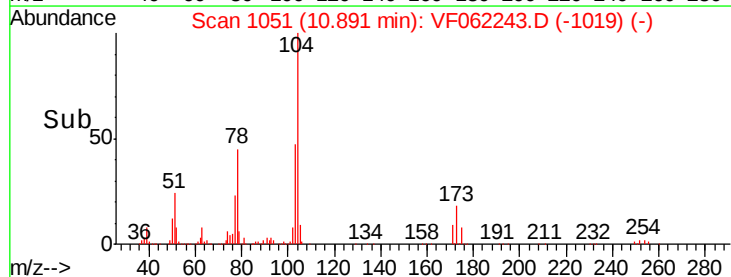
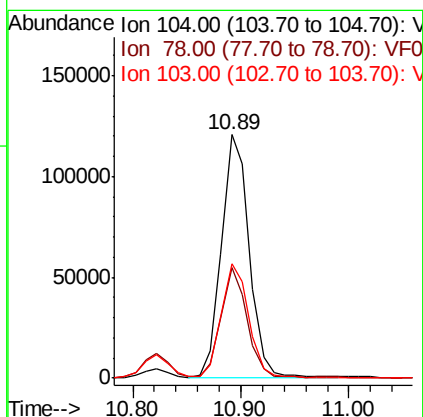
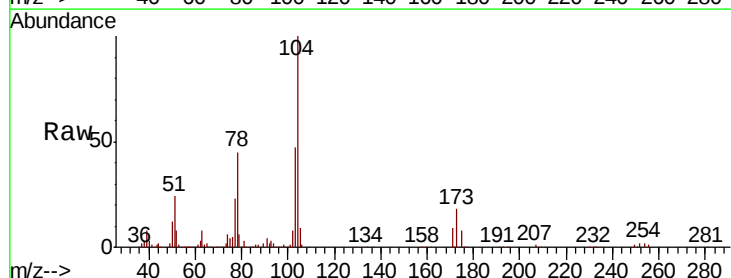
Instrument :
MSVOA_F
ClientSampleId :
VF0422SBS01

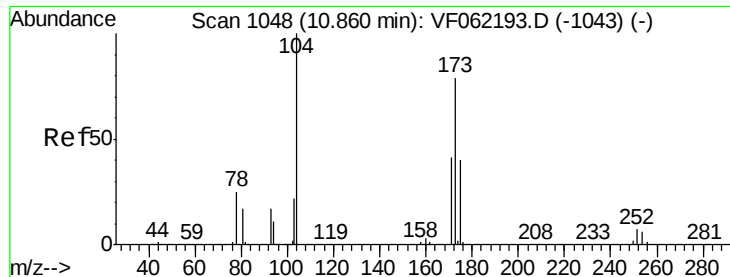
Tot Ion:106 Resp: 152292
Ion Ratio Lower Upper
106 100
91 229.3 107.5 322.4



#70
Styrene
Concen: 21.315 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062243.D
Acq: 22 Apr 2019 14:31

Tgt Ion:104 Resp: 213840
Ion Ratio Lower Upper
104 100
78 43.2 34.5 51.7
103 46.7 37.2 55.8





#71

Bromoform

Concen: 22.288 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

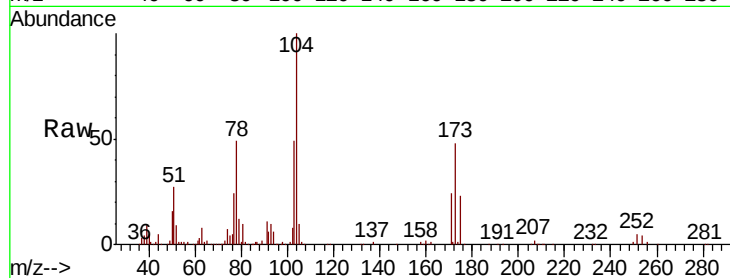
Tot Ion:173 Resp: 52713

Ion Ratio Lower Upper

173 100

175 45.3 24.5 73.5

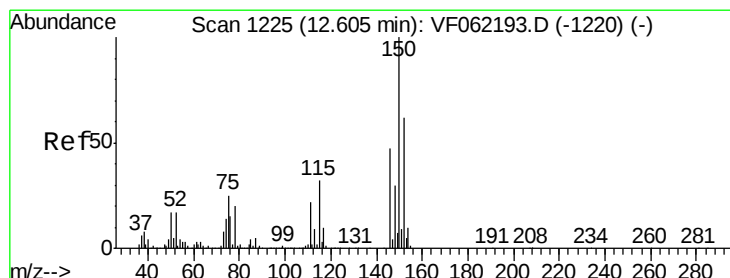
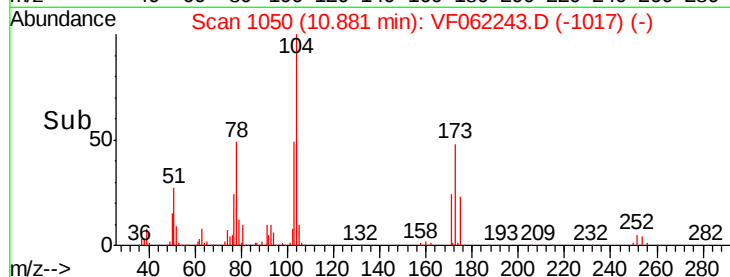
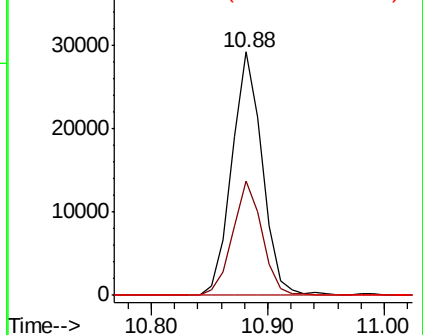
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

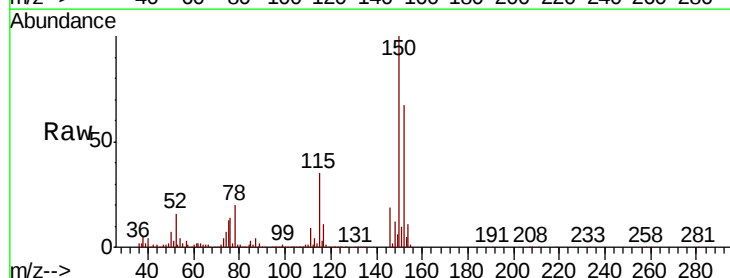
Tgt Ion:152 Resp: 251726

Ion Ratio Lower Upper

152 100

115 54.5 27.8 83.3

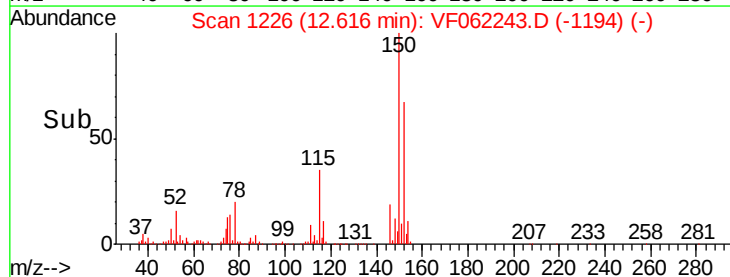
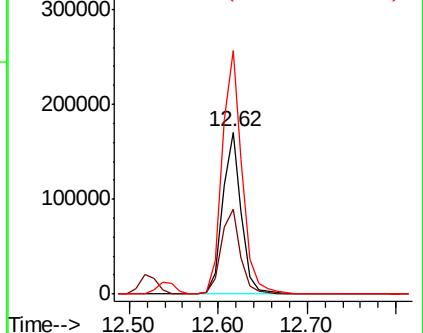
150 159.8 0.0 341.8

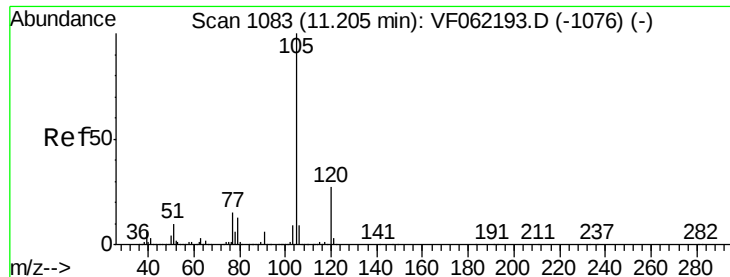


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.516 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

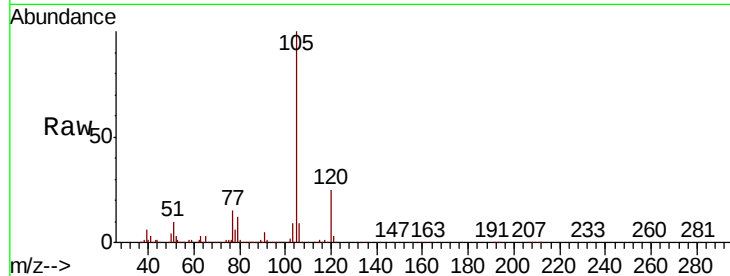
VF0422SBSD01

Tot Ion:105 Resp: 465242

Ion Ratio Lower Upper

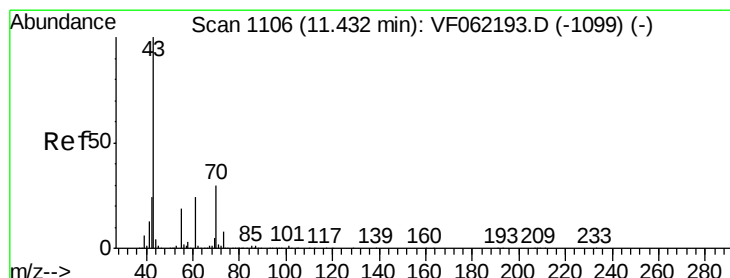
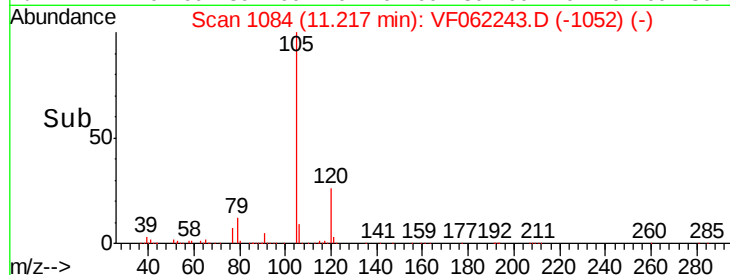
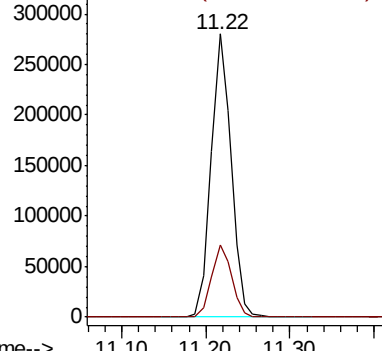
105 100

120 25.7 13.0 38.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.712 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Tgt Ion: 43 Resp: 103053

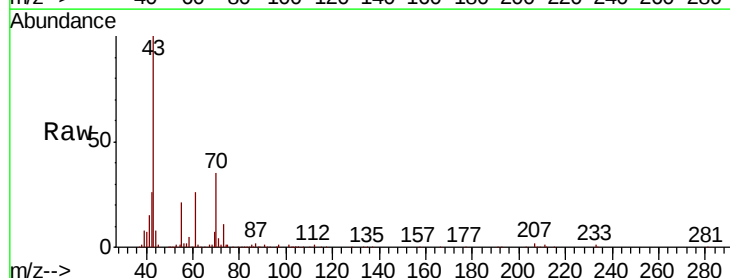
Ion Ratio Lower Upper

43 100

70 35.9 27.0 40.4

55 22.1 15.7 23.5

61 23.8 20.8 31.2

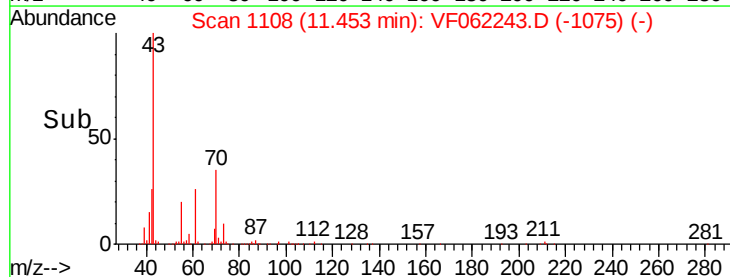
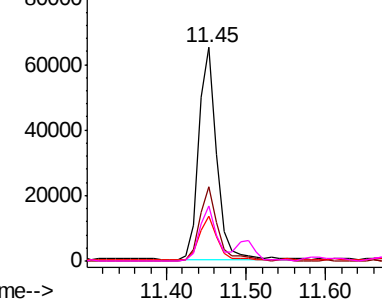


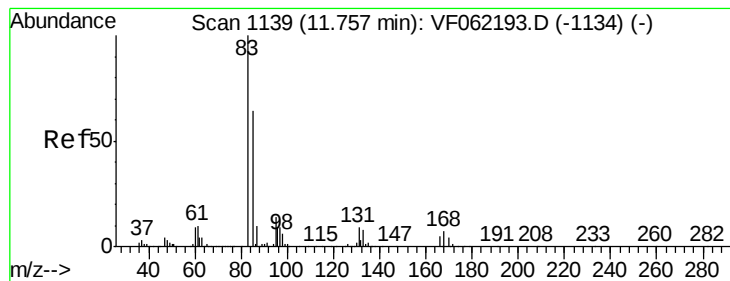
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.466 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

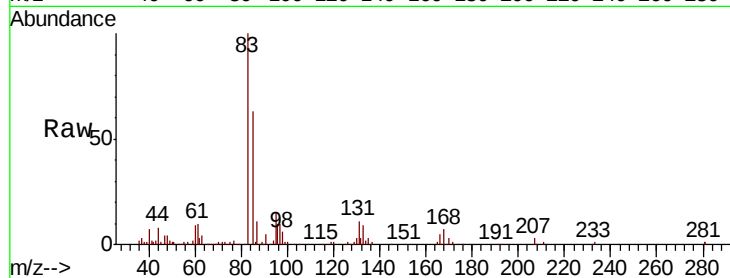
Tot Ion: 83 Resp: 72388

Ion Ratio Lower Upper

83 100

131 10.5 4.5 13.5

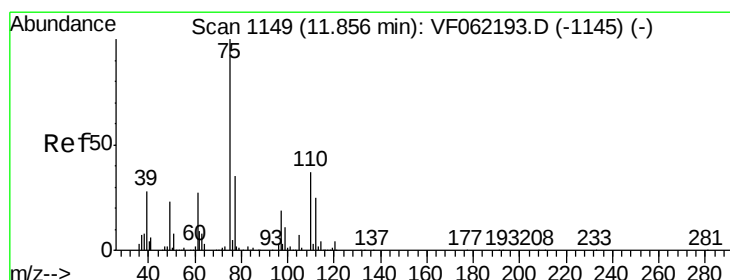
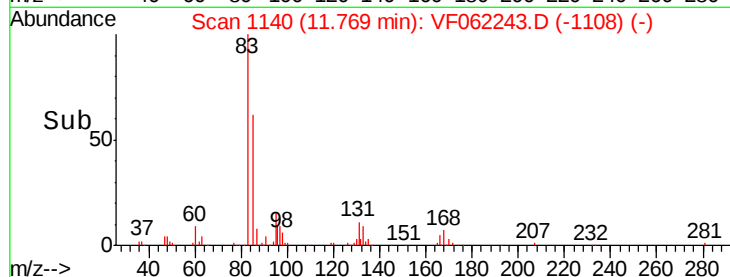
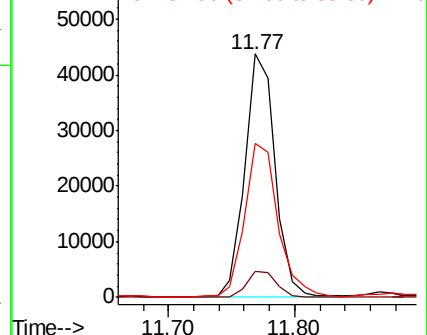
85 70.7 34.7 104.1



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 17.937 ug/l

RT: 11.87 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VF062243.D

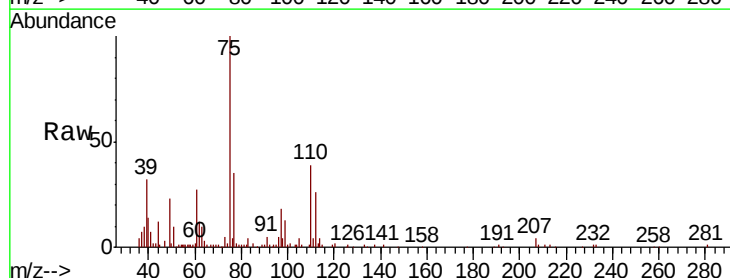
Acq: 22 Apr 2019 14:31

Tgt Ion: 75 Resp: 45891

Ion Ratio Lower Upper

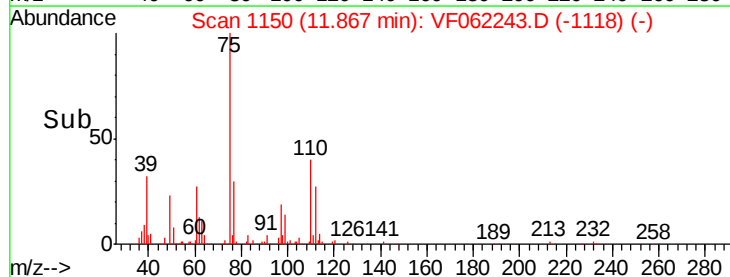
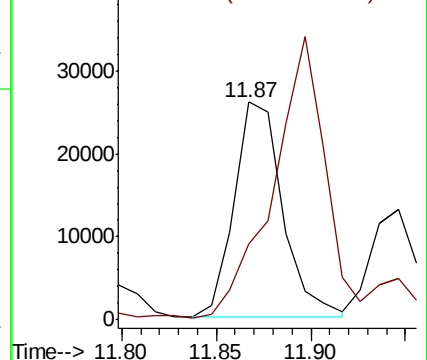
75 100

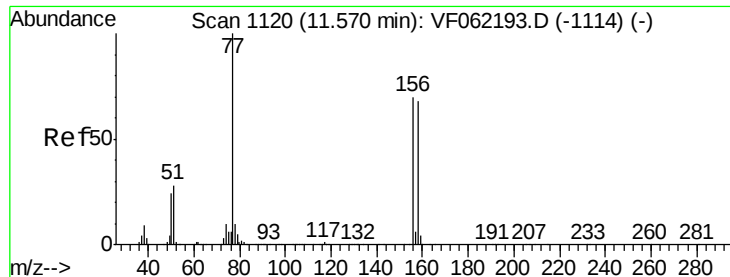
77 0.0 7.4 22.2#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 22.037 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

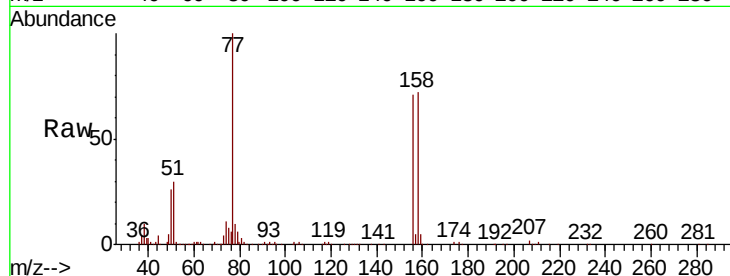
Tot Ion:156 Resp: 102080

Ion Ratio Lower Upper

156 100

77 143.5 80.9 242.7

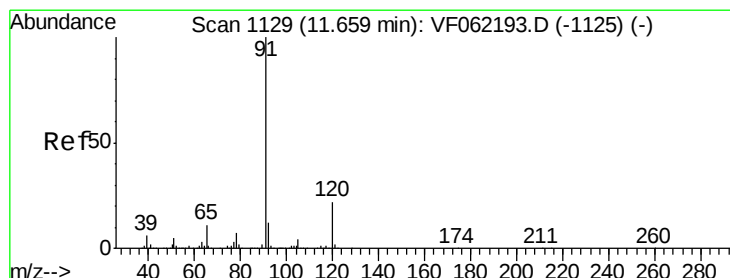
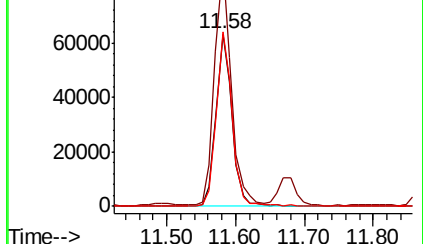
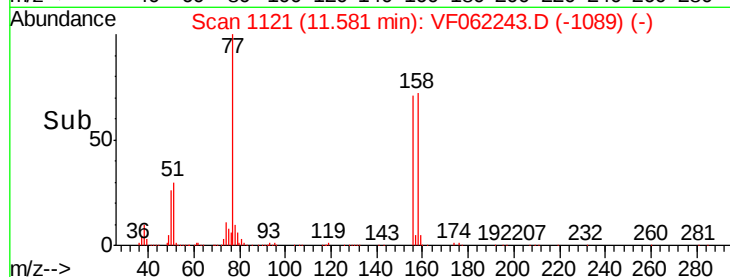
158 98.9 49.8 149.4



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.743 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. 0.02 min

Lab File: VF062243.D

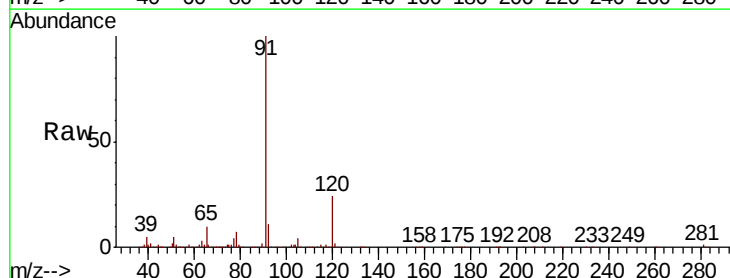
Acq: 22 Apr 2019 14:31

Tgt Ion: 91 Resp: 473175

Ion Ratio Lower Upper

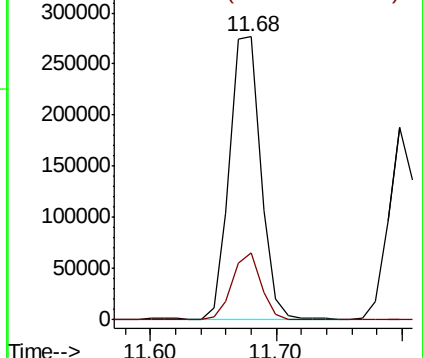
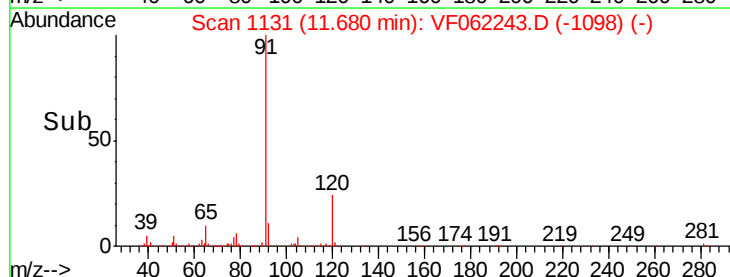
91 100

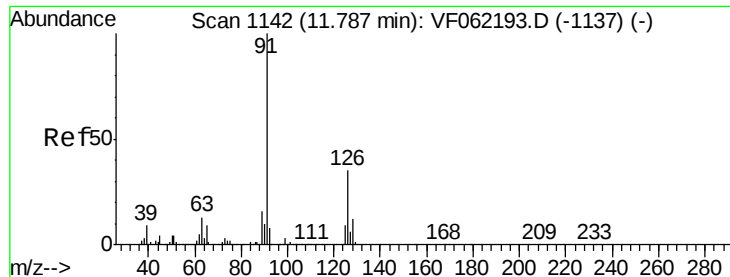
120 22.2 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.872 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

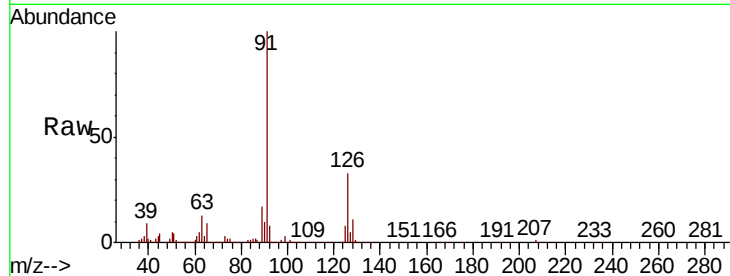
VF0422SBS01

Tot Ion: 91 Resp: 288807

Ion Ratio Lower Upper

91 100

126 34.7 16.9 50.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V

11.80

200000

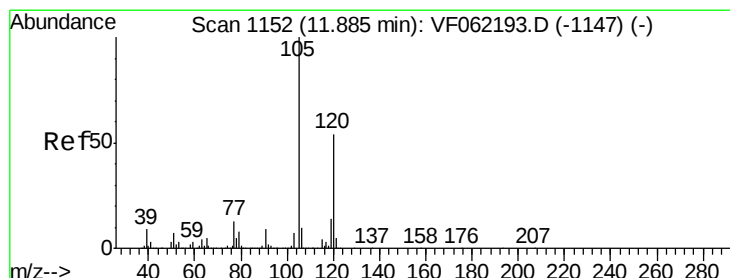
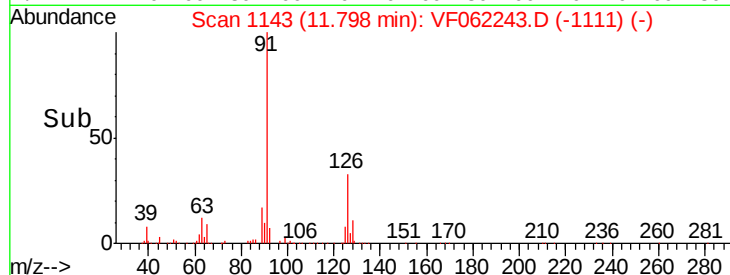
150000

100000

50000

0

Time--> 11.70 11.75 11.80 11.85



#80

1,3,5-Trimethylbenzene

Concen: 21.451 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062243.D

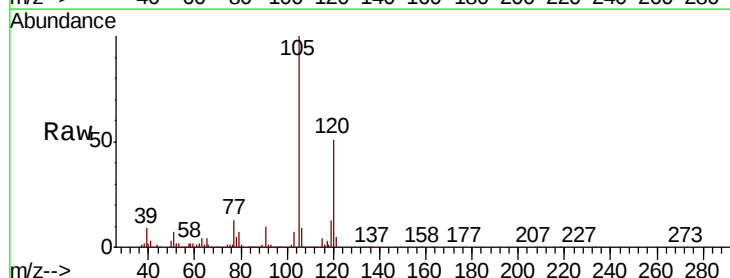
Acq: 22 Apr 2019 14:31

Tgt Ion: 105 Resp: 386322

Ion Ratio Lower Upper

105 100

120 50.3 26.2 78.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.90

300000

250000

200000

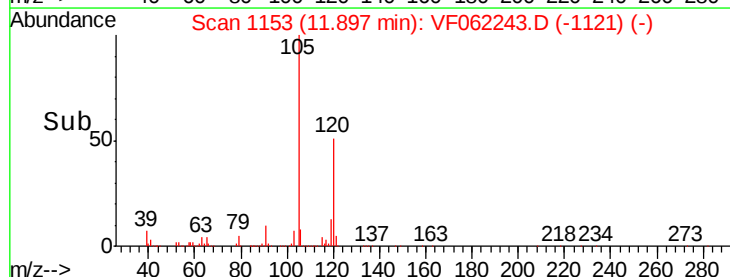
150000

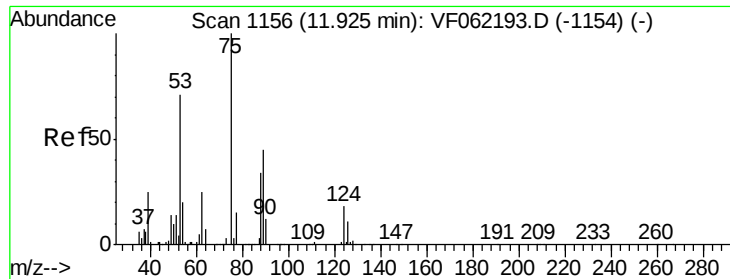
100000

50000

0

Time--> 11.80 11.90 12.00





#81

trans-1,4-Dichloro-2-butene

Concen: 22.172 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. 0.02 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

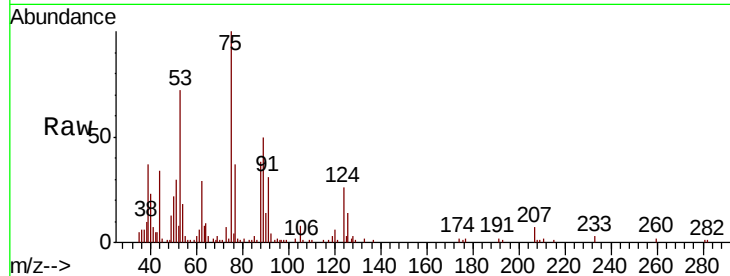
Tot Ion: 75 Resp: 28930

Ion Ratio Lower Upper

75 100

53 58.0 50.2 75.4

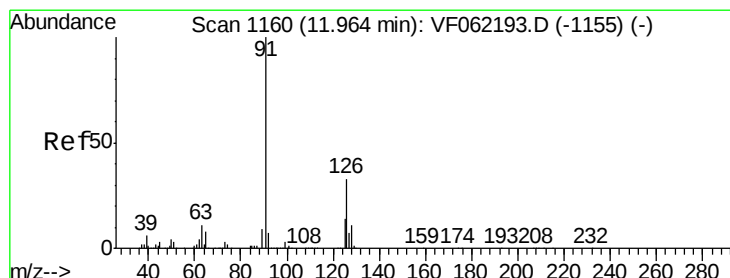
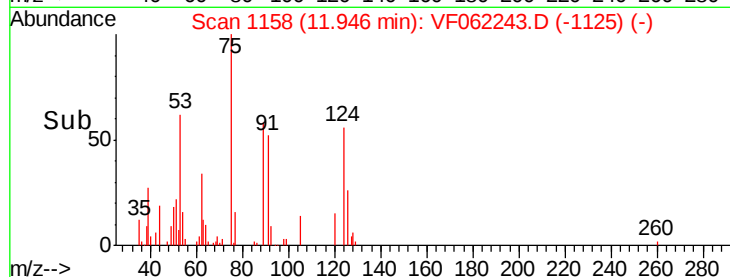
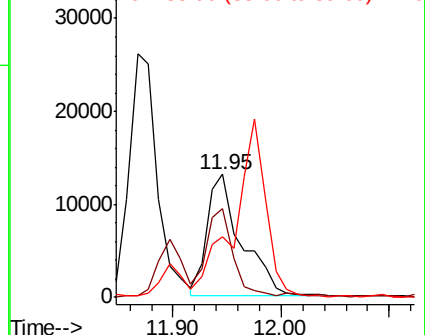
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#82

4-Chlorotoluene

Concen: 19.784 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.01 min

Lab File: VF062243.D

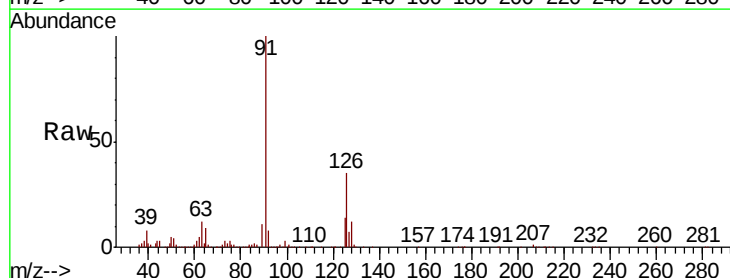
Acq: 22 Apr 2019 14:31

Tgt Ion: 91 Resp: 264561

Ion Ratio Lower Upper

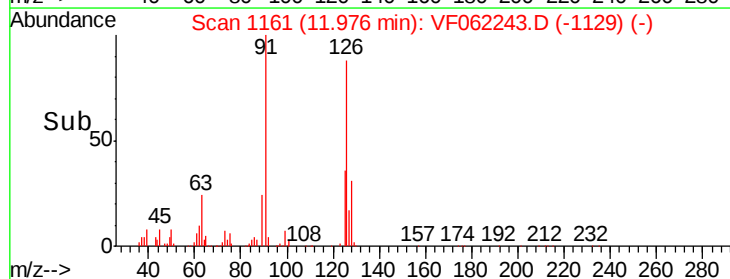
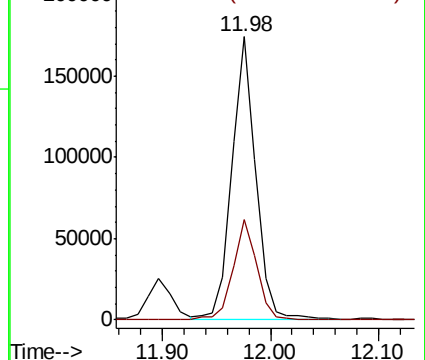
91 100

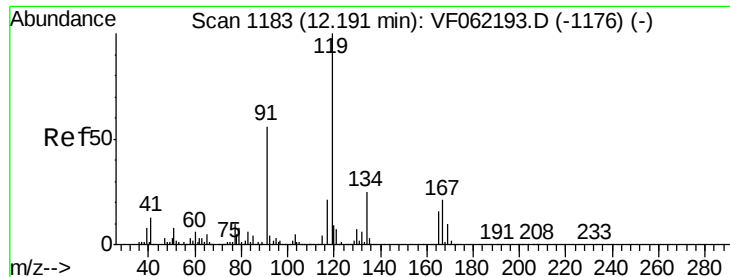
126 36.5 16.9 50.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V

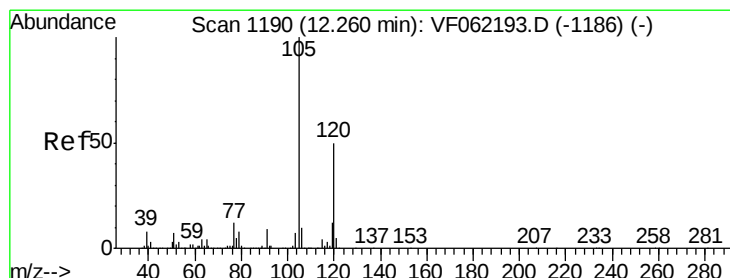
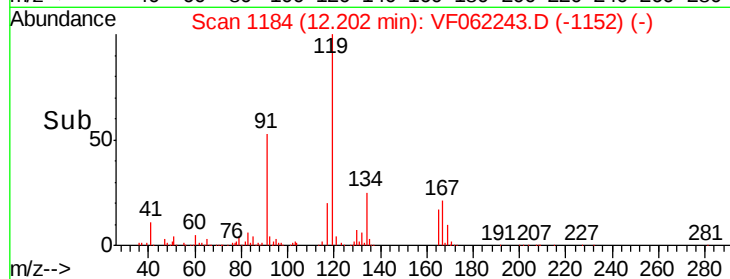
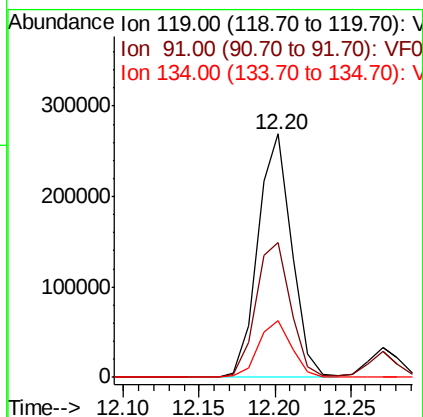
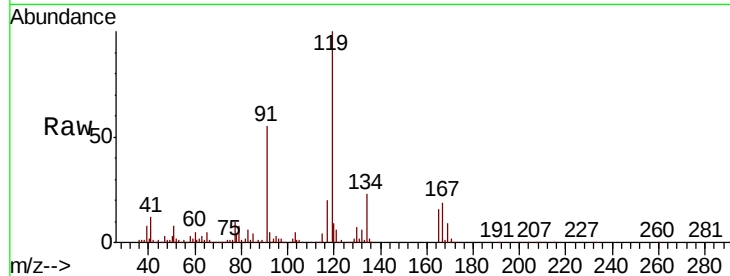




#83
 tert-Butylbenzene
 Concen: 22.612 ug/l
 RT: 12.20 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

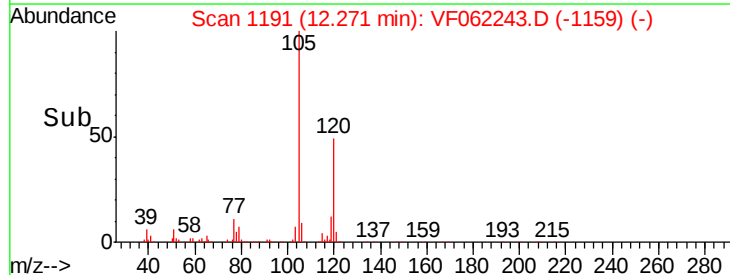
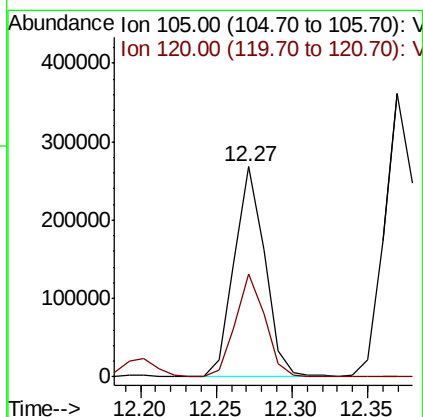
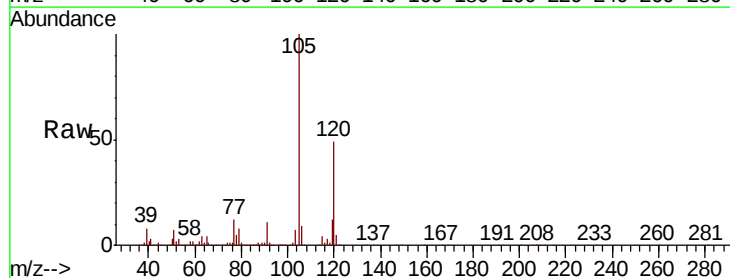
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

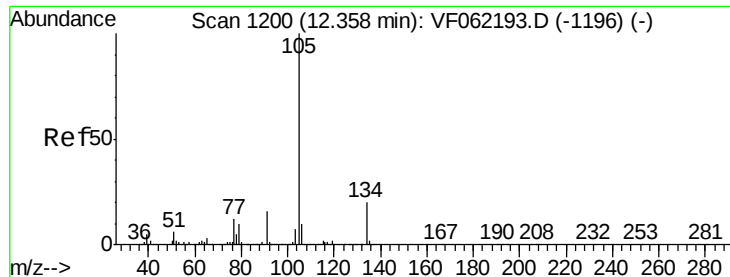
Tot Ion:119 Resp: 421128
 Ion Ratio Lower Upper
 119 100
 91 57.0 29.4 88.2
 134 23.1 11.8 35.3



#84
 1,2,4-Trimethylbenzene
 Concen: 21.579 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion:105 Resp: 376072
 Ion Ratio Lower Upper
 105 100
 120 47.8 24.0 72.0





#85

sec-Butylbenzene

Concen: 21.548 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

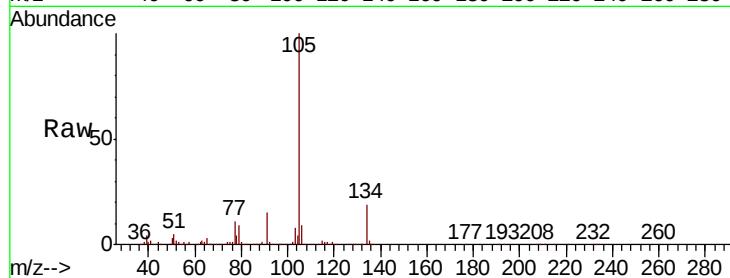
VF0422SBS01

Tot Ion:105 Resp: 521006

Ion Ratio Lower Upper

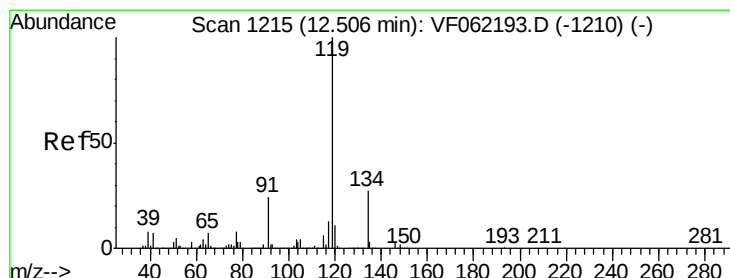
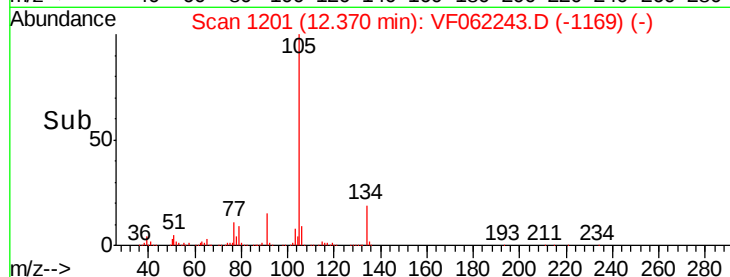
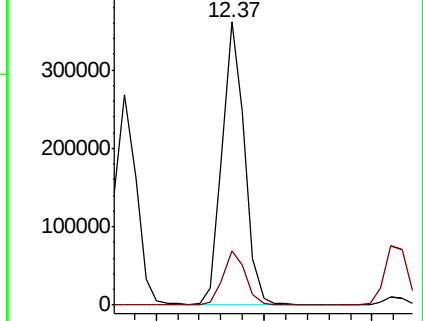
105 100

134 19.4 9.7 29.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 22.250 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

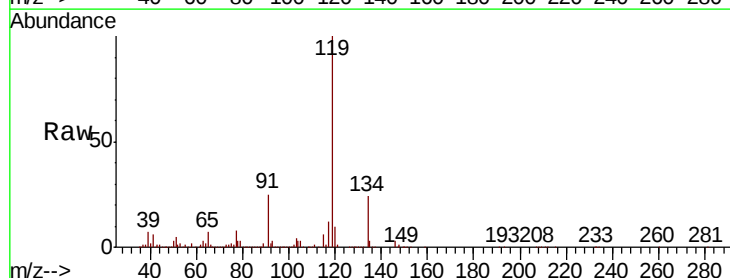
Tgt Ion:119 Resp: 456366

Ion Ratio Lower Upper

119 100

134 24.9 13.2 39.5

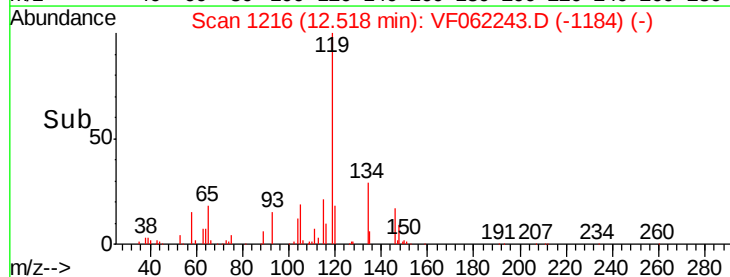
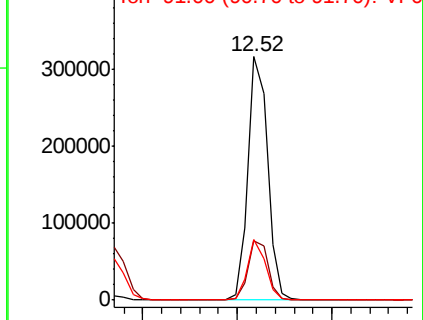
91 22.9 11.7 35.1

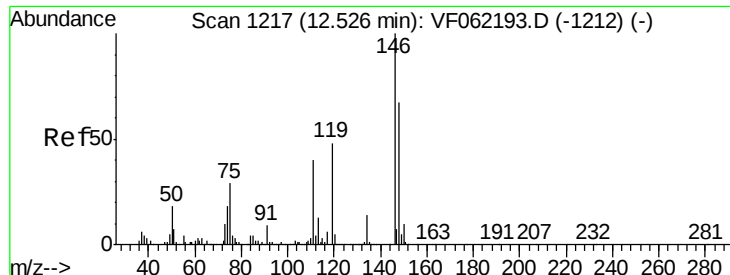


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

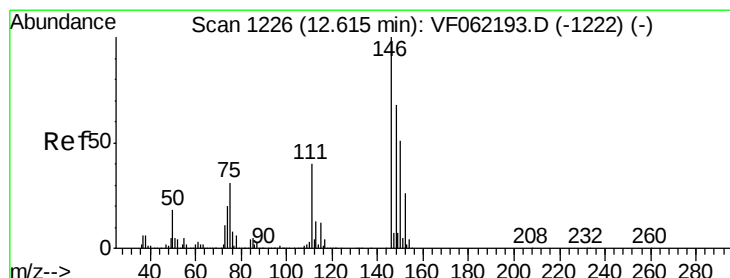
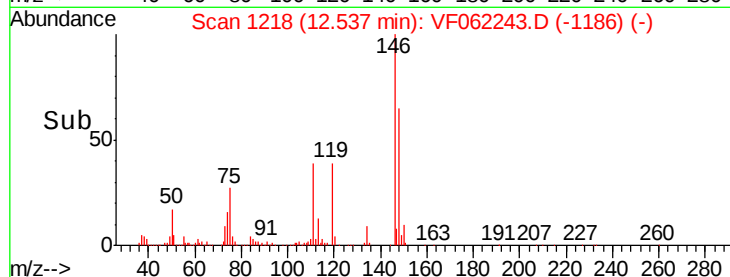
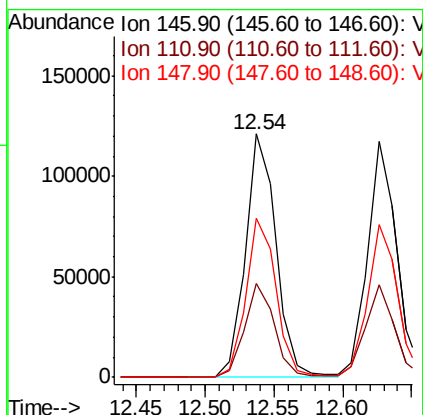
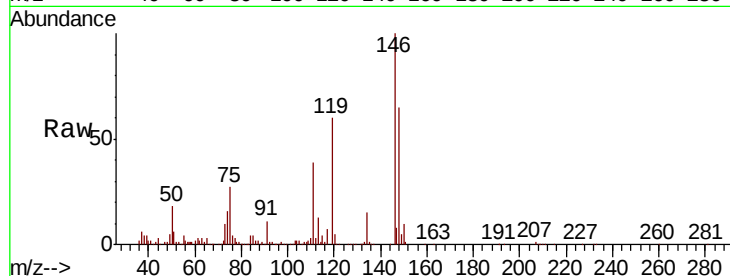




#87
 1,3-Dichlorobenzene
 Concen: 21.961 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

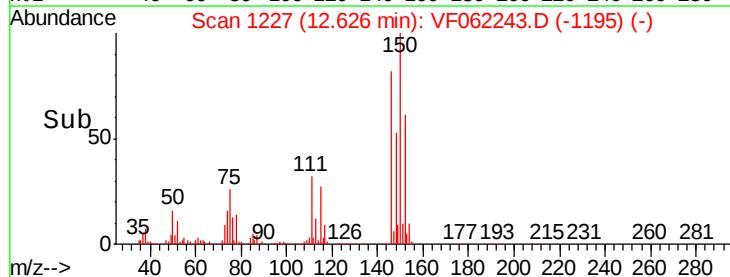
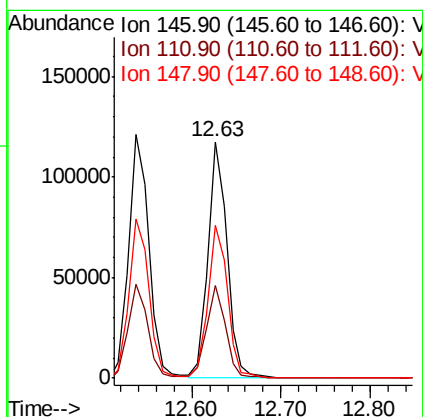
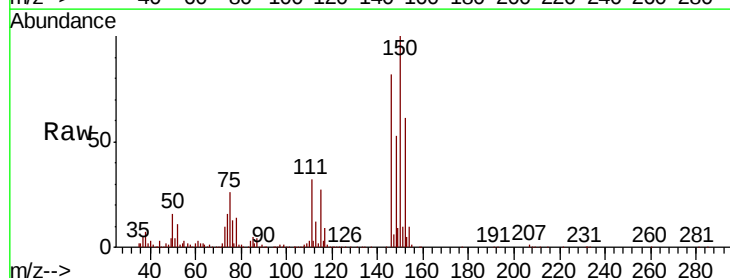
Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

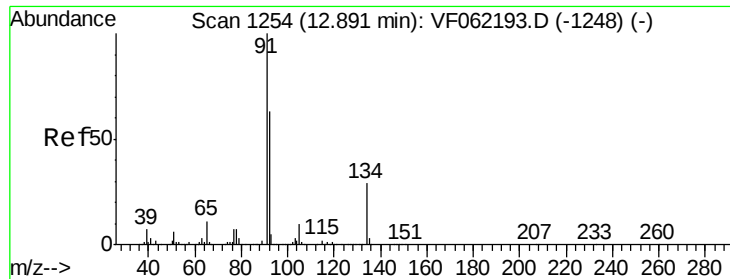
Tot Ion:146 Resp: 188777
 Ion Ratio Lower Upper
 146 100
 111 37.7 19.7 59.0
 148 64.8 32.9 98.6



#88
 1,4-Dichlorobenzene
 Concen: 21.034 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion:146 Resp: 174401
 Ion Ratio Lower Upper
 146 100
 111 39.1 20.0 60.0
 148 66.6 33.6 100.8





#89

n-Butylbenzene

Concen: 22.252 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

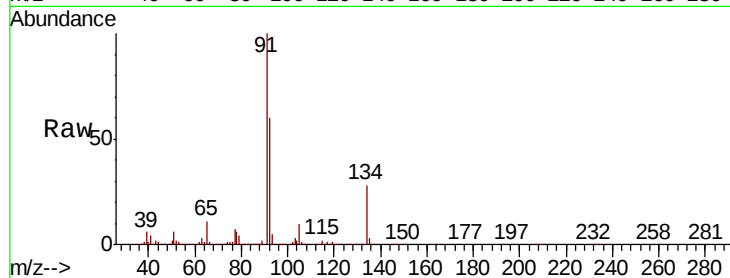
Tot Ion: 91 Resp: 423935

Ion Ratio Lower Upper

91 100

92 60.1 31.2 93.6

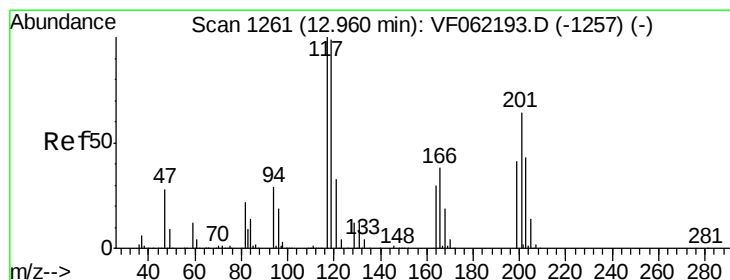
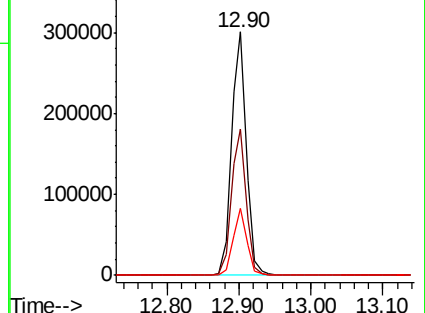
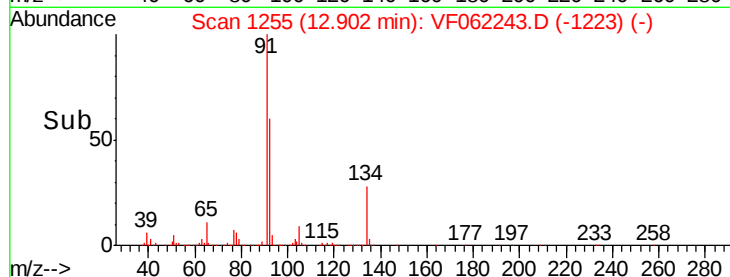
134 26.1 13.1 39.1



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: 21.806 ug/l

RT: 12.97 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VF062243.D

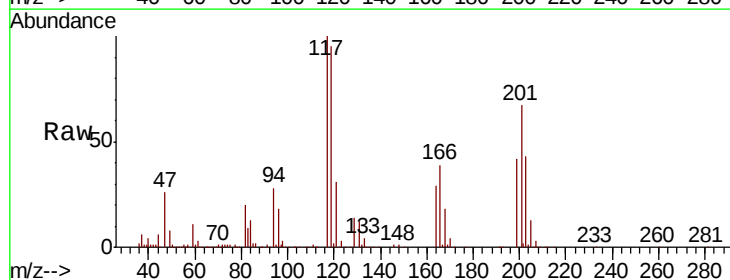
Acq: 22 Apr 2019 14:31

Tgt Ion: 117 Resp: 114849

Ion Ratio Lower Upper

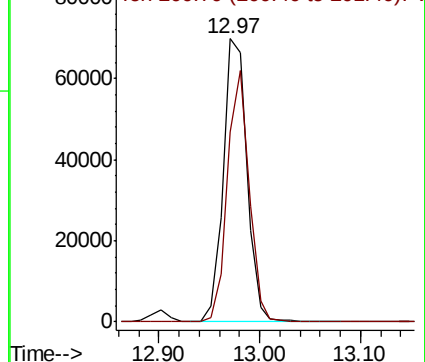
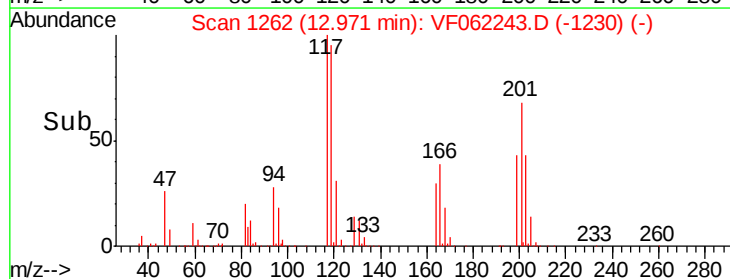
117 100

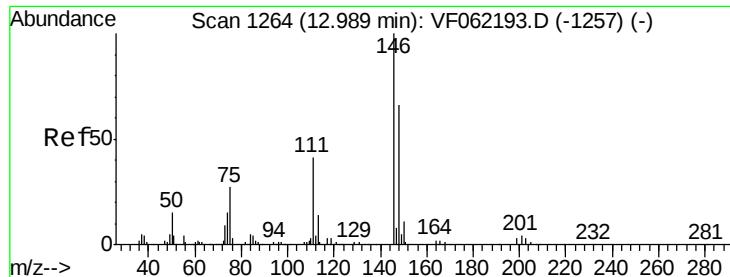
201 81.0 37.7 113.1



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 21.732 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

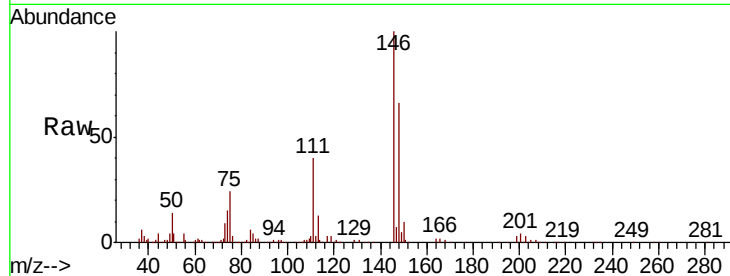
Tot Ion:146 Resp: 180374

Ion Ratio Lower Upper

146 100

111 41.3 20.8 62.5

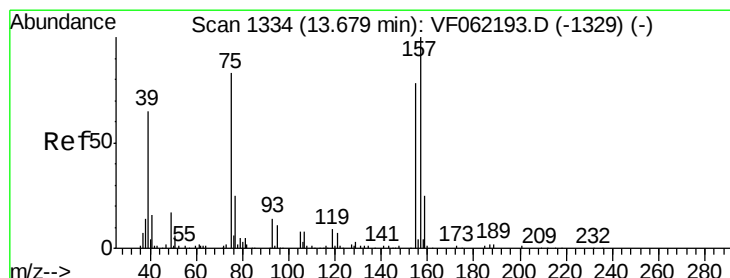
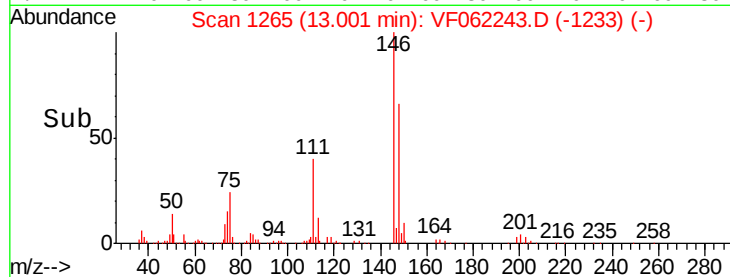
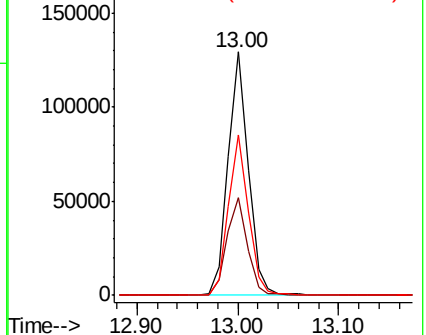
148 65.8 33.0 99.0



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.829 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

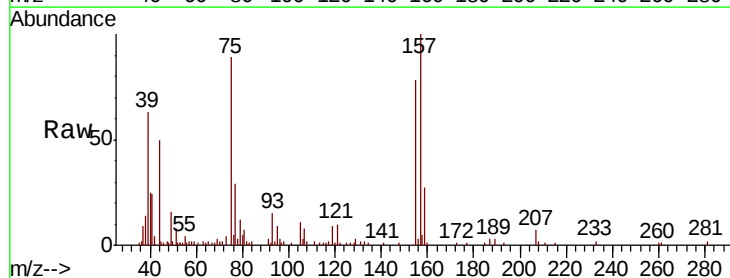
Tgt Ion: 75 Resp: 13757

Ion Ratio Lower Upper

75 100

155 102.0 47.6 142.8

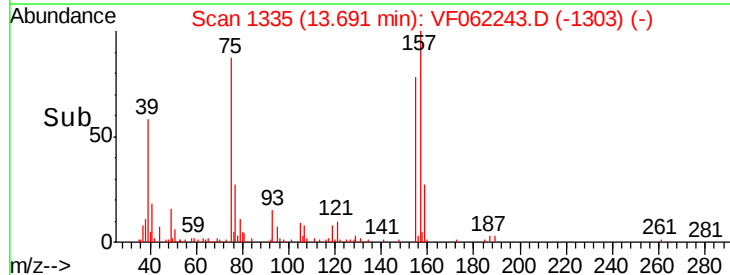
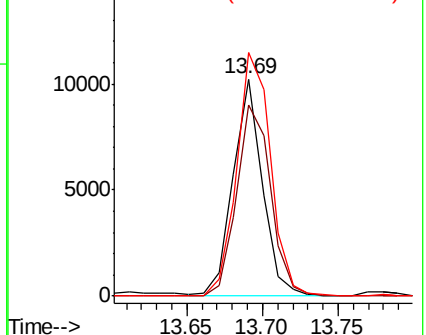
157 129.6 61.3 183.9

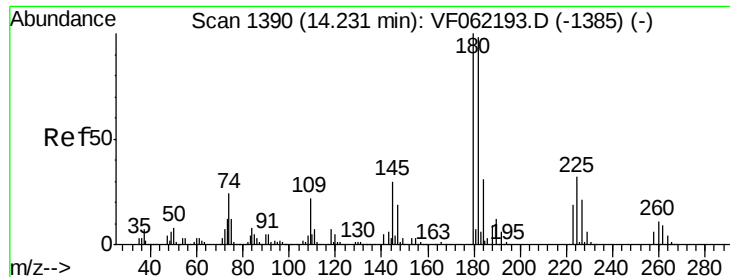


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

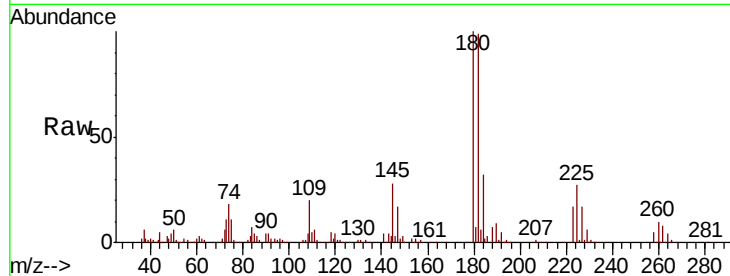




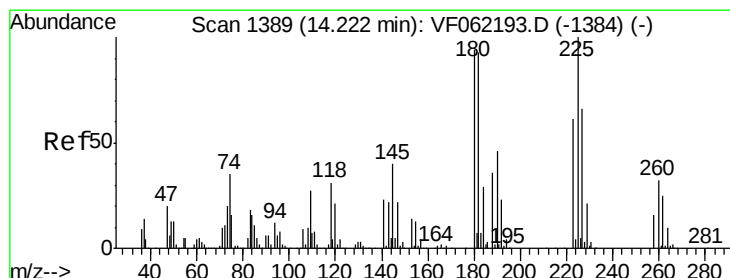
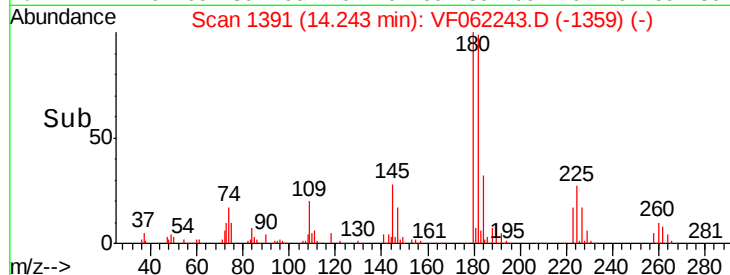
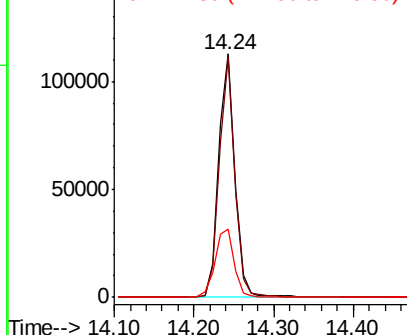
#93
 1,2,4-Trichlorobenzene
 Concen: 23.545 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0422SBS01

Tot Ion:180 Resp: 163508
 Ion Ratio Lower Upper
 180 100
 182 94.4 49.3 147.9
 145 32.9 18.1 54.4

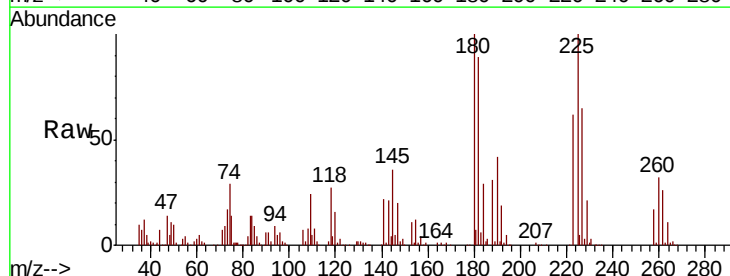


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

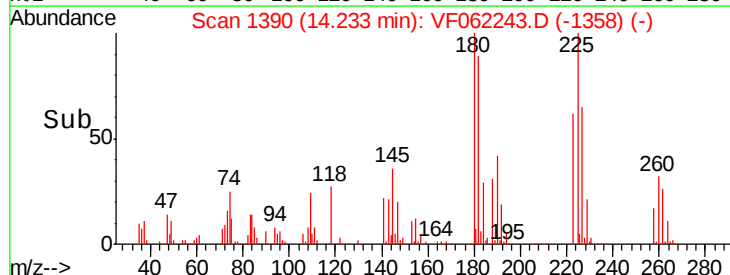
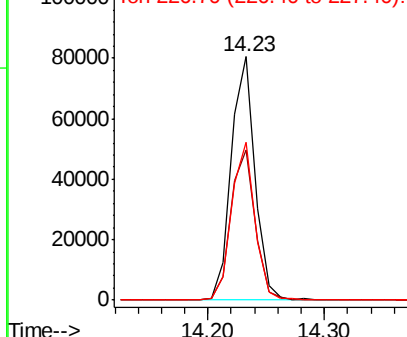


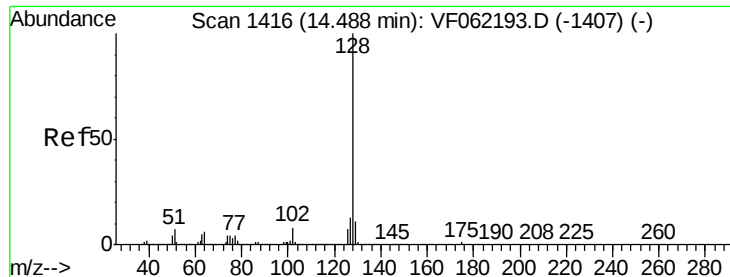
#94
 Hexachlorobutadiene
 Concen: 23.816 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062243.D
 Acq: 22 Apr 2019 14:31

Tgt Ion:225 Resp: 113407
 Ion Ratio Lower Upper
 225 100
 223 63.4 31.0 93.0
 227 64.0 32.4 97.0



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 21.283 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

Instrument :

MSVOA_F

ClientSampleId :

VF0422SBS01

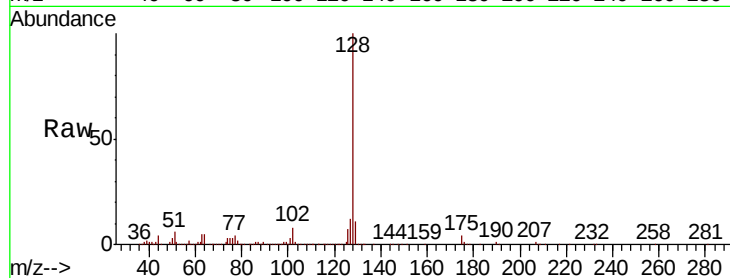
Tot Ion:128 Resp: 258430

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

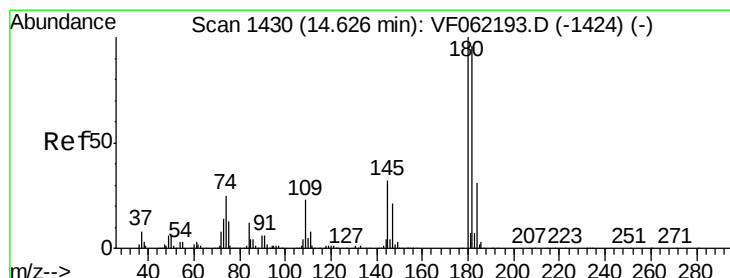
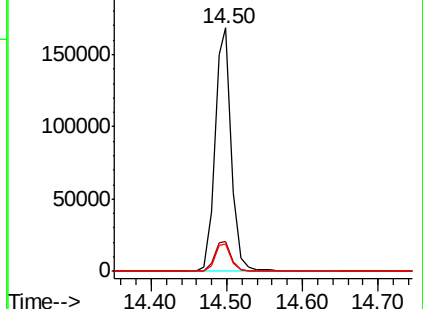
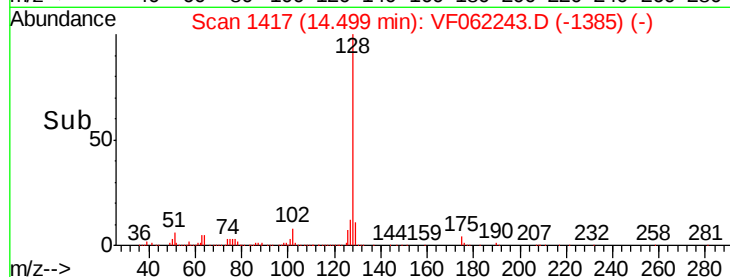
129 11.2 9.2 13.8



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: 22.990 ug/l

RT: 14.64 min Scan# 1431

Delta R.T. 0.01 min

Lab File: VF062243.D

Acq: 22 Apr 2019 14:31

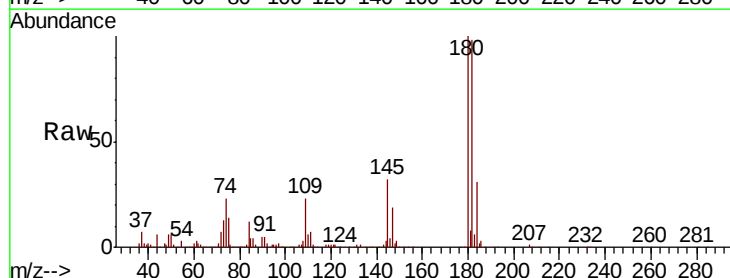
Tgt Ion:180 Resp: 153274

Ion Ratio Lower Upper

180 100

182 97.3 48.4 145.3

145 29.9 15.6 46.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

