

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041819\
 Data File : VF062206.D
 Acq On : 18 Apr 2019 15:45
 Operator : FY/SY
 Sample : VF0418SBS01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0418SBS01

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 10:52:28 AM

Quant Time: Apr 19 02:18:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 07:43:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	447541	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	650573	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	481072	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	272765	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	217065	52.89	ug/l	0.01
Spiked Amount 50.000			Recovery	=	105.78%	
35) Dibromofluoromethane	4.31	113	286351	50.32	ug/l	0.01
Spiked Amount 50.000			Recovery	=	100.64%	
50) Toluene-d8	7.71	98	715337	49.66	ug/l	0.01
Spiked Amount 50.000			Recovery	=	99.32%	
62) 4-Bromofluorobenzene	11.49	95	272260	49.13	ug/l	0.01
Spiked Amount 50.000			Recovery	=	98.26%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	133505	19.630	ug/l	99
3) Chloromethane	1.15	50	127471	18.133	ug/l	100
4) Vinyl Chloride	1.18	62	113440	18.783	ug/l	97
5) Bromomethane	1.38	94	61070	17.406	ug/l	94
6) Chloroethane	1.44	64	44019	17.435	ug/l	99
7) Trichlorofluoromethane	1.55	101	138205	18.013	ug/l	97
8) Diethyl Ether	1.71	74	29051	18.192	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.91	101	101075	19.283	ug/l	98
10) Methyl Iodide	1.99	142	175216m	18.817	ug/l	
11) Tert butyl alcohol	2.70	59	25843	90.596	ug/l #	94
12) 1,1-Dichloroethene	1.87	96	93467	18.748	ug/l	99
13) Acrolein	2.10	56	15846	108.542	ug/l #	73
14) Allyl chloride	2.19	41	91426	15.980	ug/l	98
15) Acrylonitrile	3.09	53	84245	96.965	ug/l	98
16) Acetone	2.35	43	86315	87.996	ug/l	97
17) Carbon Disulfide	1.91	76	252911m	18.256	ug/l	
18) Methyl Acetate	2.46	43	44852	17.424	ug/l	98
19) Methyl tert-butyl Ether	2.54	73	167536	19.033	ug/l	96
20) Methylene Chloride	2.35	84	106844m	18.195	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	92994m	18.862	ug/l	
22) Diisopropyl ether	2.94	45	270525	18.484	ug/l	98
23) Vinyl Acetate	3.34	43	696694	99.913	ug/l	100
24) 1,1-Dichloroethane	3.01	63	158665	19.818	ug/l	99
25) 2-Butanone	4.53	43	178721	91.122	ug/l	97
26) 2,2-Dichloropropane	3.78	77	74091	18.330	ug/l	99
27) cis-1,2-Dichloroethene	3.64	96	124008	19.423	ug/l	96
28) Bromochloromethane	3.89	49	73132	19.069	ug/l #	96
29) Tetrahydrofuran	4.27	42	84721	95.431	ug/l	96
30) Chloroform	4.04	83	188547	19.163	ug/l	98
31) Cyclohexane	3.86	56	171413	17.866	ug/l	95
32) 1,1,1-Trichloroethane	4.29	97	115002	15.968	ug/l #	89
36) 1,1-Dichloropropene	4.47	75	146249	18.750	ug/l	99
37) Ethyl Acetate	4.31	43	69880	18.986	ug/l #	100
38) Carbon Tetrachloride	4.18	117	127332	18.443	ug/l	97

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Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 07:43:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	188129	20.144	ug/l	97
40) Benzene	4.82	78	389739	19.050	ug/l	100
41) Methacrylonitrile	4.94	41	38885	18.315	ug/l	93
42) 1,2-Dichloroethane	5.13	62	104187	19.263	ug/l	100
43) Isopropyl Acetate	7.12	43	65592	16.944	ug/l #	99
44) Trichloroethene	5.68	130	113184	20.473	ug/l	99
45) 1,2-Dichloropropane	6.41	63	87069	19.320	ug/l	99
46) Dibromomethane	6.26	93	58871	19.634	ug/l	97
47) Bromodichloromethane	6.56	83	132905	19.643	ug/l	99
48) Methyl methacrylate	6.88	41	45050	17.708	ug/l	98
49) 1,4-Dioxane	6.87	88	11190	383.527	ug/l	94
51) 4-Methyl-2-Pentanone	8.40	43	278804	96.830	ug/l	100
52) Toluene	7.78	92	208808	19.362	ug/l	96
53) t-1,3-Dichloropropene	8.42	75	101956	20.062	ug/l	100
54) cis-1,3-Dichloropropene	7.46	75	137411	19.989	ug/l	97
55) 1,1,2-Trichloroethane	8.64	97	59088	19.558	ug/l	95
56) Ethyl methacrylate	8.75	69	62278	18.131	ug/l	94
57) 1,3-Dichloropropane	9.00	76	90462	18.543	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.45	63	100372	100.646	ug/l	96
59) 2-Hexanone	9.62	43	172064	95.913	ug/l	97
60) Dibromochloromethane	8.86	129	90982	20.249	ug/l	99
61) 1,2-Dibromoethane	9.13	107	66613	19.571	ug/l	99
64) Tetrachloroethene	8.30	164	88958	20.484	ug/l	97
65) Chlorobenzene	9.94	112	211995	20.667	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.06	131	99534	20.720	ug/l	100
67) Ethyl Benzene	10.04	91	372139	19.951	ug/l	99
68) m/p-Xylenes	10.26	106	277873	40.468	ug/l	96
69) o-Xylene	10.81	106	155857	20.444	ug/l	98
70) Styrene	10.89	104	226252	21.030	ug/l	99
71) Bromoform	10.88	173	54182	21.363	ug/l #	97
73) Isopropylbenzene	11.22	105	464638	19.830	ug/l	99
74) N-amyl acetate	11.44	43	115123	19.362	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.77	83	78164	19.398	ug/l	99
76) 1,2,3-Trichloropropane	11.87	75	53830m	19.417	ug/l	
77) Bromobenzene	11.58	156	101123	20.147	ug/l	96
78) n-propylbenzene	11.67	91	486334	19.676	ug/l	99
79) 2-Chlorotoluene	11.80	91	294914	19.669	ug/l	100
80) 1,3,5-Trimethylbenzene	11.90	105	391216	20.047	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.94	75	25404m	17.968	ug/l	
82) 4-Chlorotoluene	11.98	91	290609	20.056	ug/l	100
83) tert-Butylbenzene	12.19	119	408486	20.241	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	364628	19.308	ug/l	97
85) sec-Butylbenzene	12.37	105	504196	19.244	ug/l	98
86) p-Isopropyltoluene	12.52	119	435318	19.587	ug/l	98
87) 1,3-Dichlorobenzene	12.54	146	183251	19.674	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	177730	19.783	ug/l	99
89) n-Butylbenzene	12.89	91	413775	19.469	ug/l	98
90) Hexachloroethane	12.97	117	112842	19.772	ug/l	98
91) 1,2-Dichlorobenzene	13.00	146	176771	19.655	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.69	75	14605	18.448	ug/l	88

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Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBSD01

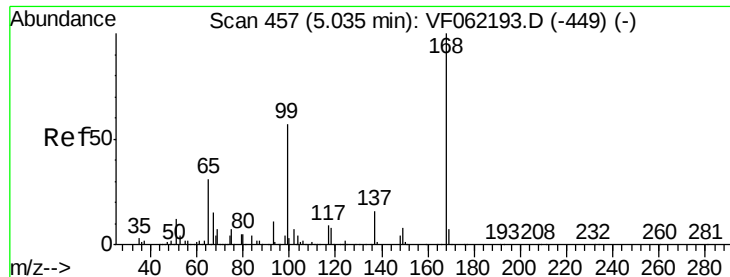
Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:28 AM

Quant Time: Apr 19 02:18:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
Quant Title : SW846 8260
QLast Update : Thu Apr 18 07:43:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	157019	20.866	µg/l	97
94) Hexachlorobutadiene	14.22	225	106830	20.704	µg/l	99
95) Naphthalene	14.49	128	263341	20.014	µg/l	99
96) 1,2,3-Trichlorobenzene	14.64	180	149376	20.677	µg/l	95

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



#1

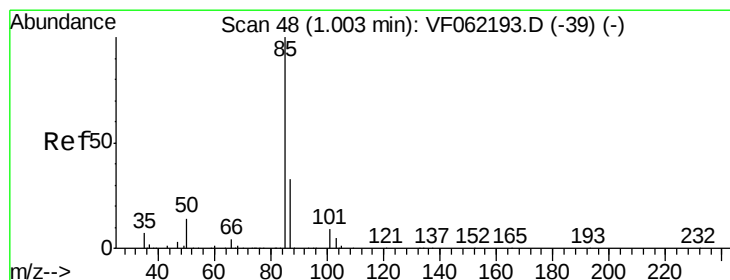
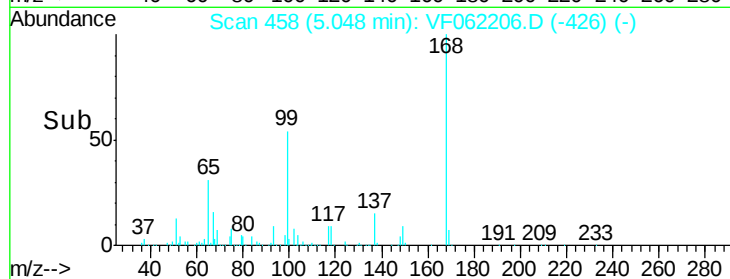
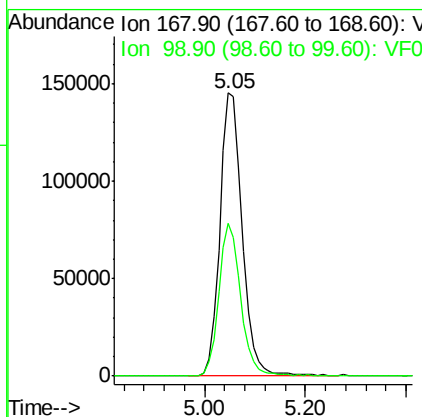
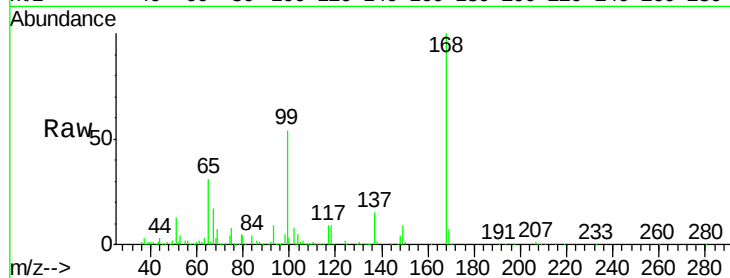
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.05 min Scan# 458
 Delta R.T. 0.01 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0418SBS01

Tot Ion	Ratio	Lower	Upper
168	100		
99	53.9	45.5	68.3

Manual Integrations
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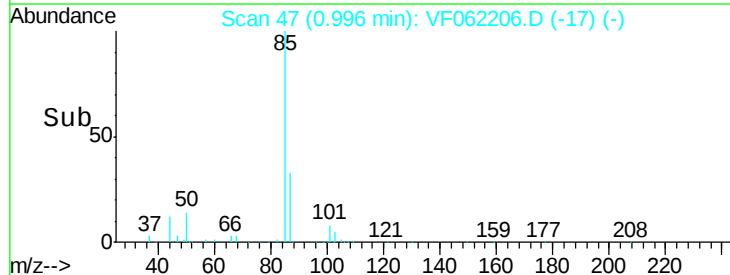
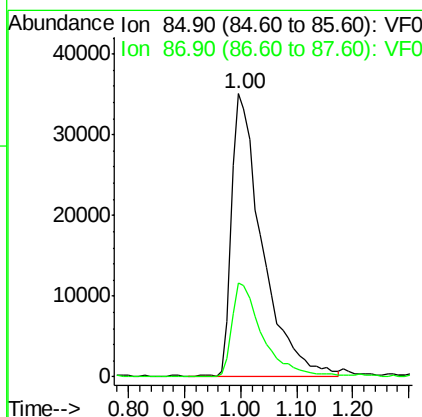
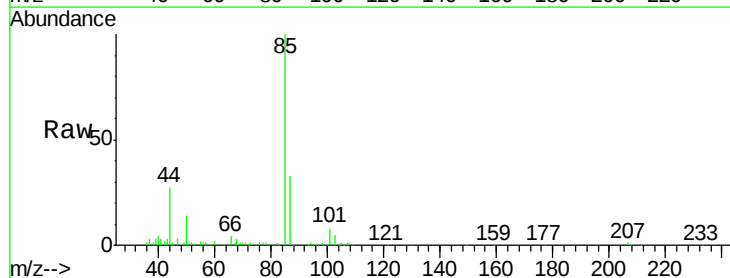
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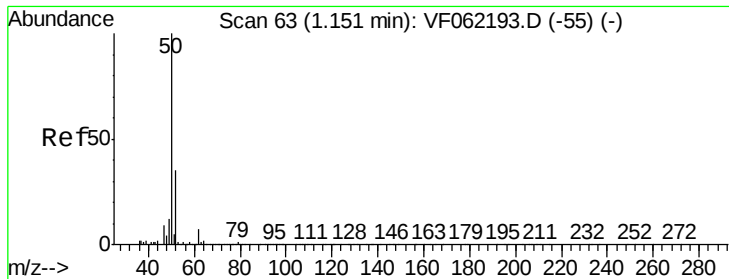


#2

Dichlorodifluoromethane
 Concen: 19.630 ug/l
 RT: 1.00 min Scan# 47
 Delta R.T. -0.01 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.4	49.1





#3

Chloromethane

Concen: 18.133 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion: 50 Resp: 127471

Ion Ratio Lower Upper

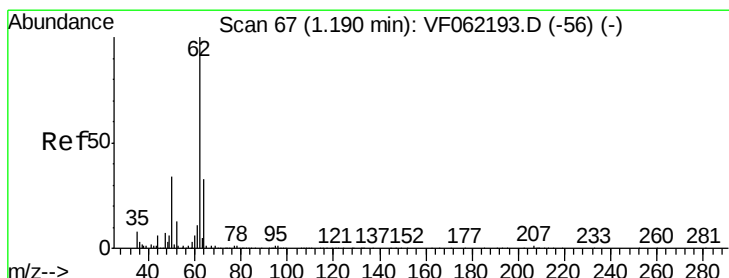
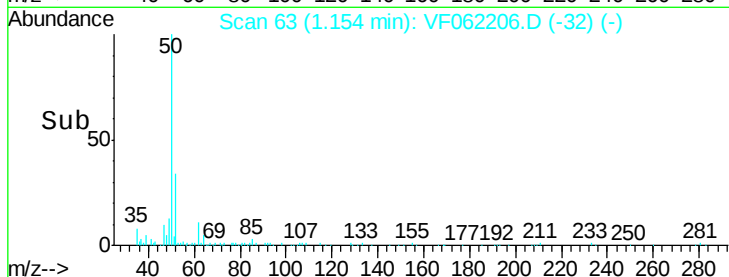
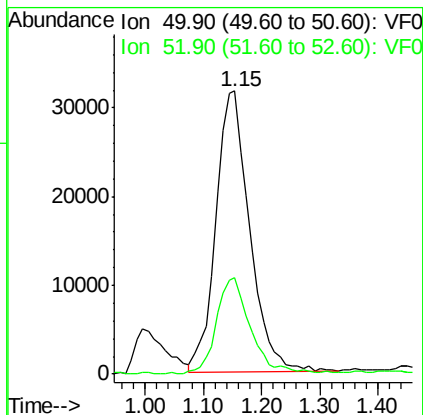
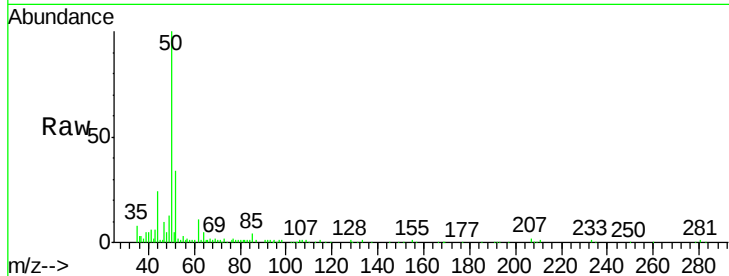
50 100

52 33.8 27.0 40.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 18.783 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062206.D

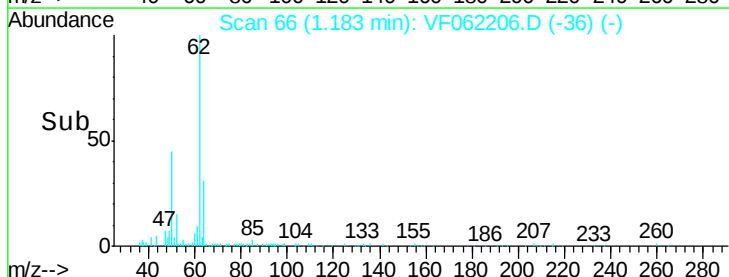
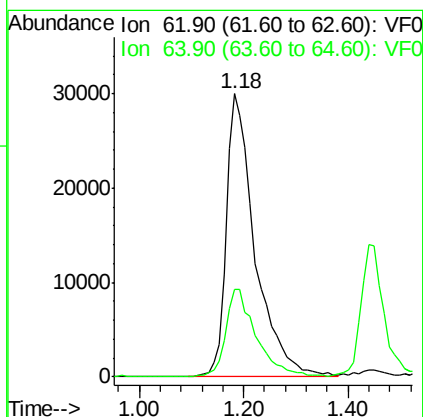
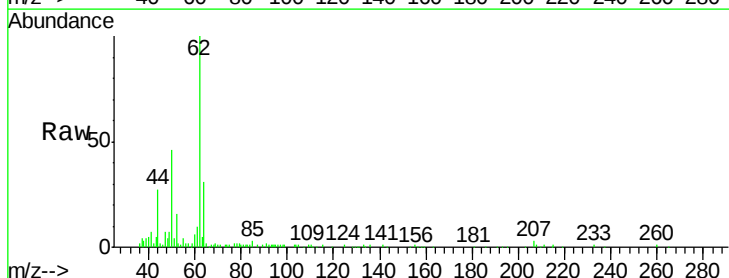
Acq: 18 Apr 2019 15:45

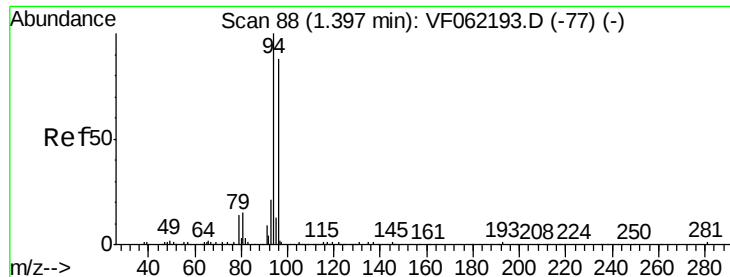
Tgt Ion: 62 Resp: 113440

Ion Ratio Lower Upper

62 100

64 31.0 26.2 39.4





#5

Bromomethane

Concen: 17.406 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion: 94 Resp: 61070

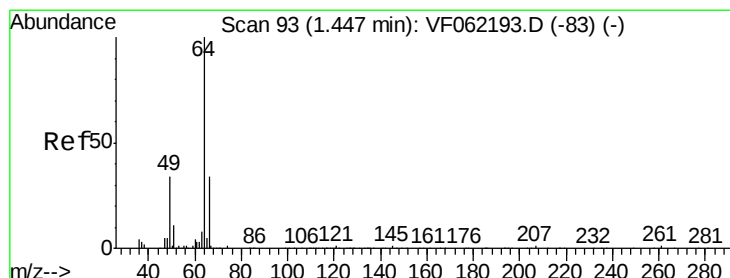
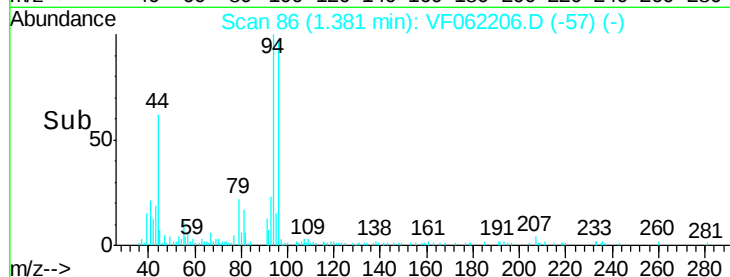
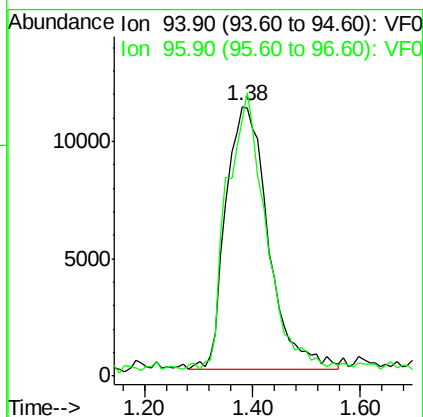
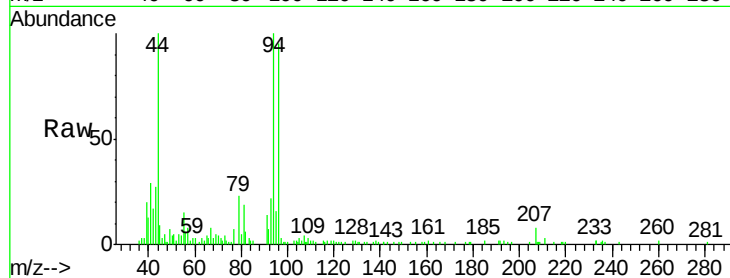
Ion Ratio Lower Upper

94 100

96 93.7 70.2 105.4

Manual Integrations
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#6

Chloroethane

Concen: 17.435 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062206.D

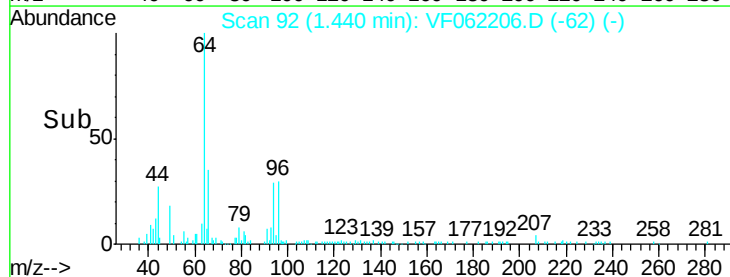
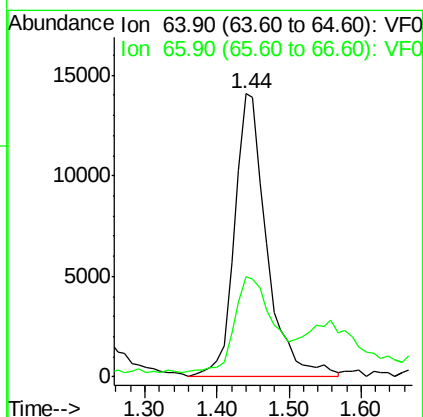
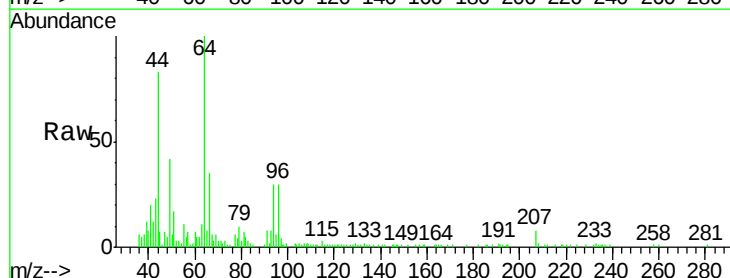
Acq: 18 Apr 2019 15:45

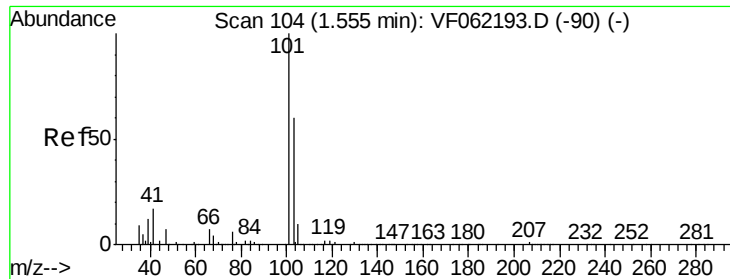
Tgt Ion: 64 Resp: 44019

Ion Ratio Lower Upper

64 100

66 33.1 27.0 40.4





#7

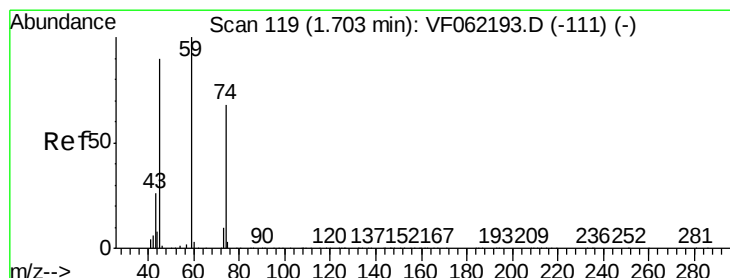
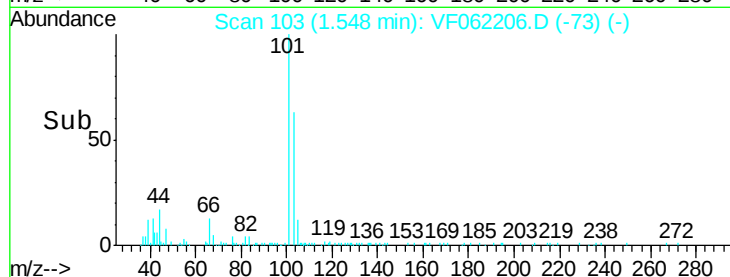
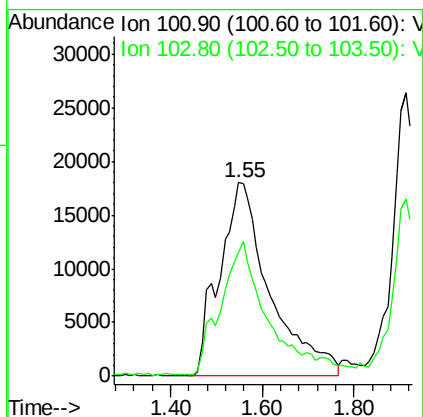
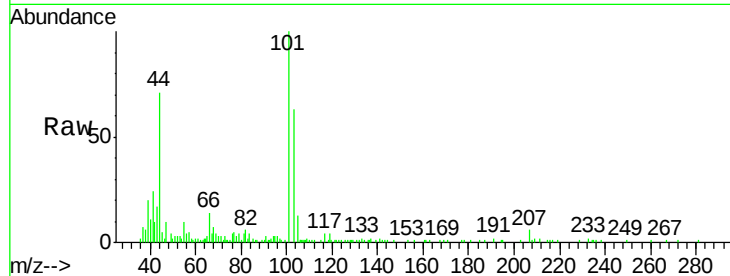
Trichlorofluoromethane
Concen: 18.013 ug/l
RT: 1.55 min Scan# 103
Delta R.T. -0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion:101 Resp: 138205
Ion Ratio Lower Upper
101 100
103 62.3 48.2 72.4

Manual Integrations
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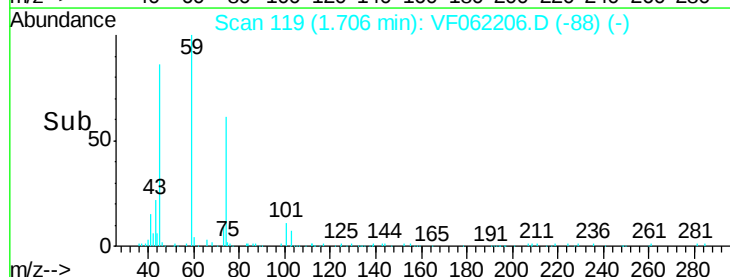
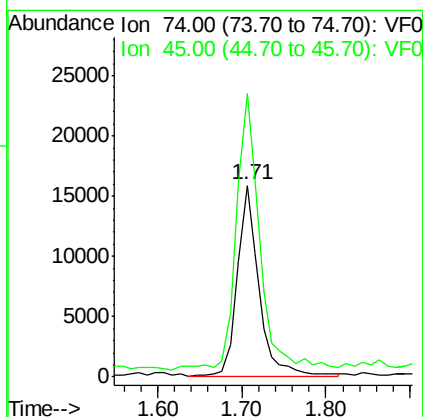
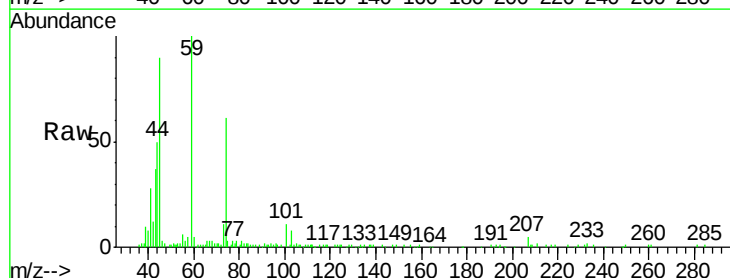
MMDadoda
4/19/2019 10:52:28 AM

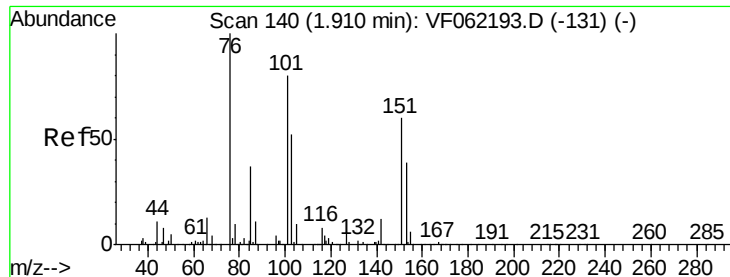


#8

Diethyl Ether
Concen: 18.192 ug/l
RT: 1.71 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion: 74 Resp: 29051
Ion Ratio Lower Upper
74 100
45 145.6 70.0 210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.283 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

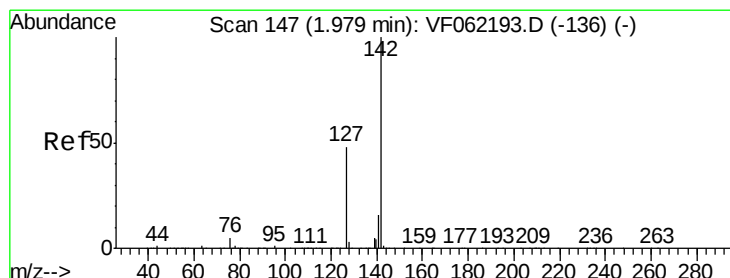
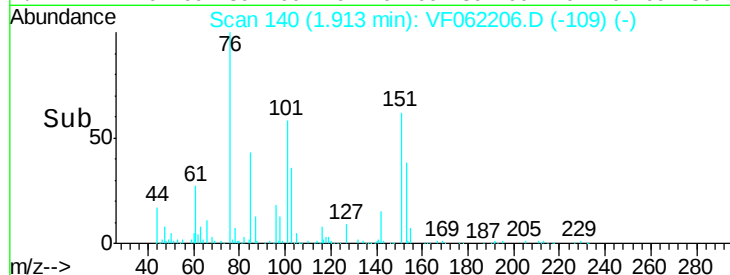
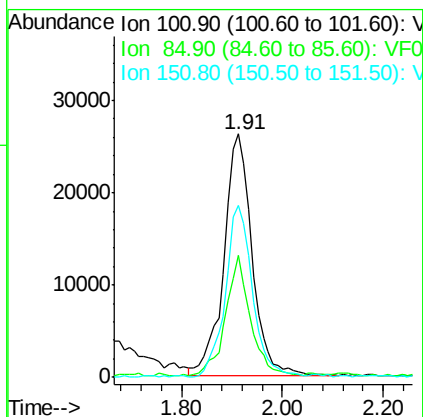
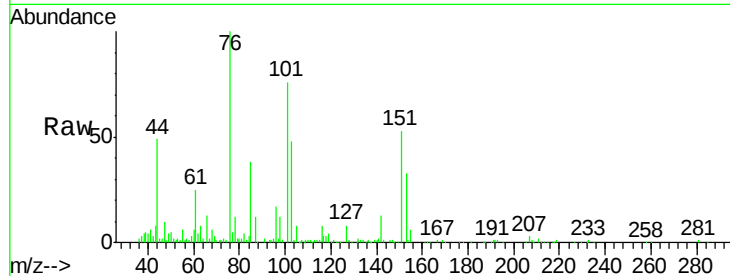
ClientSampleId :

VF0418SBS01

Tot Ion:	101	Resp:	101075
Ion Ratio	Lower	Upper	
101	100		
85	44.0	35.3	52.9
151	68.8	57.5	86.3

Manual Integrations
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#10

Methyl Iodide

Concen: 18.817 ug/l m

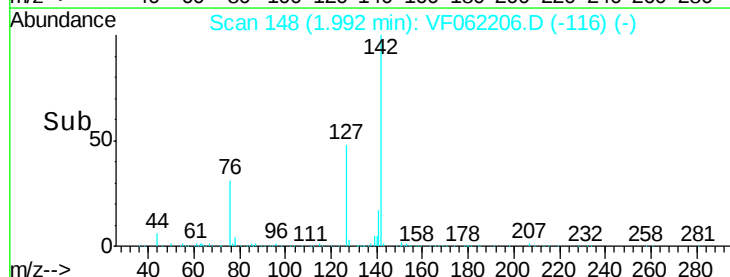
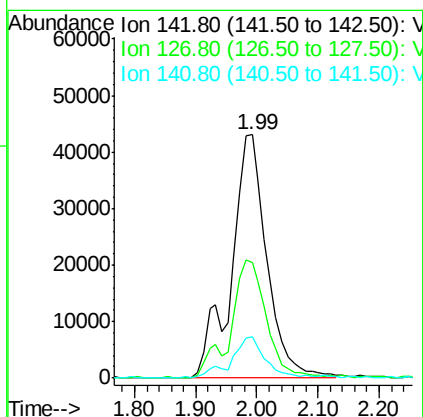
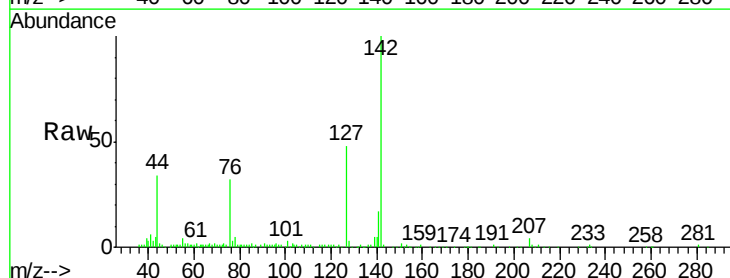
RT: 1.99 min Scan# 148

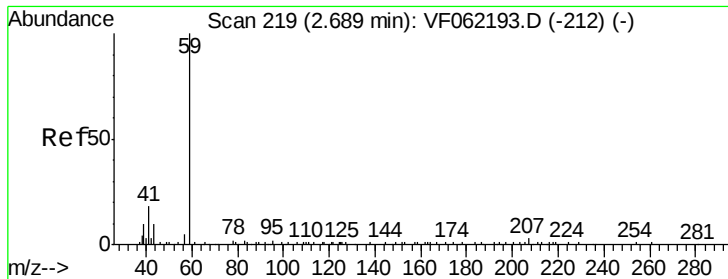
Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	142	Resp:	175216
Ion Ratio	Lower	Upper	
142	100		
127	49.1	33.0	49.4
141	16.6	12.7	19.1





#11

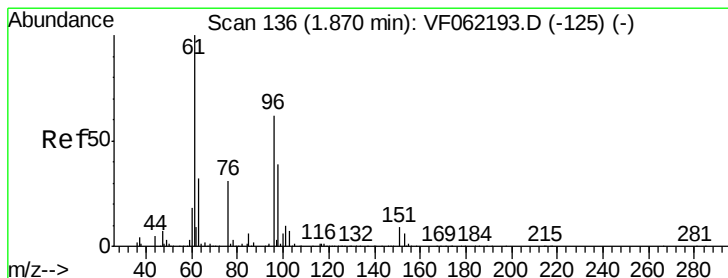
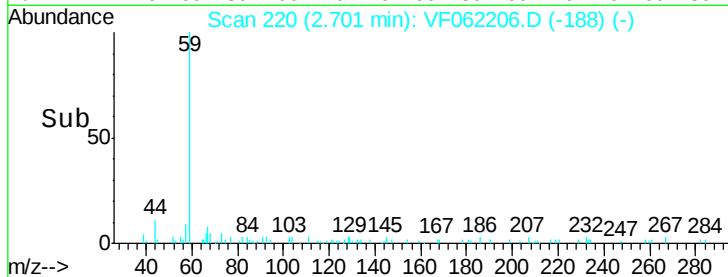
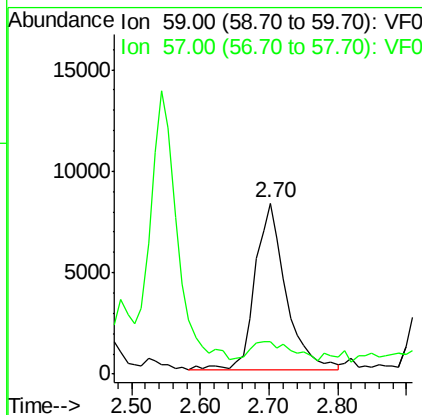
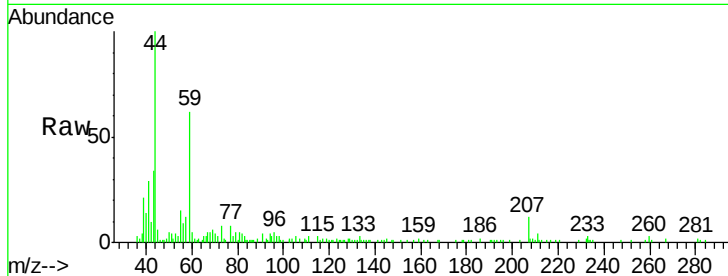
Tert butyl alcohol
Concen: 90.596 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	14.1	9.3	13.9#

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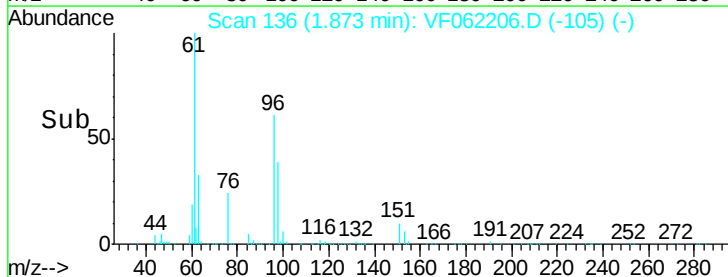
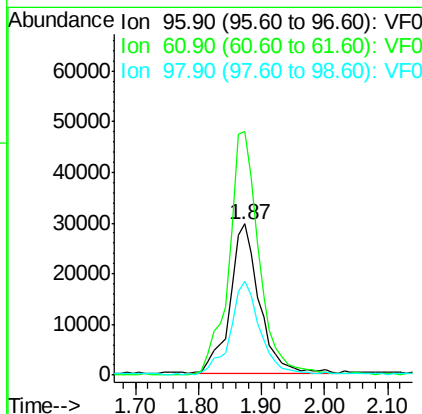
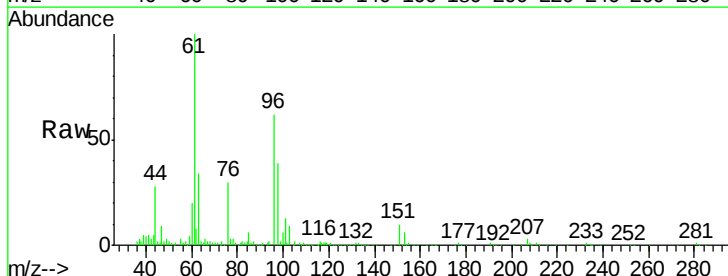
MMDadoda
4/19/2019 10:52:28 AM

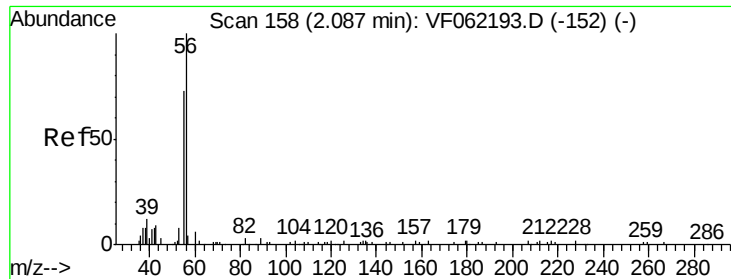


#12

1,1-Dichloroethene
Concen: 18.748 ug/l
RT: 1.87 min Scan# 136
Delta R.T. 0.00 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.1	129.1	193.7
98	62.8	50.0	75.0





#13

Acrolein

Concen: 108.542 ug/l

RT: 2.10 min Scan# 159

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion: 56 Resp: 15846

Ion Ratio Lower Upper

56 100

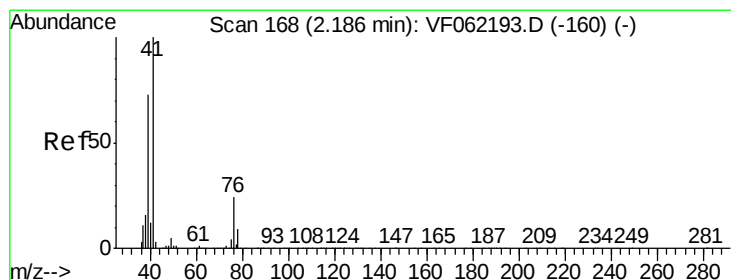
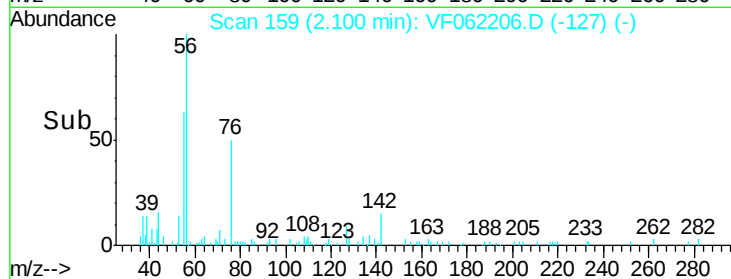
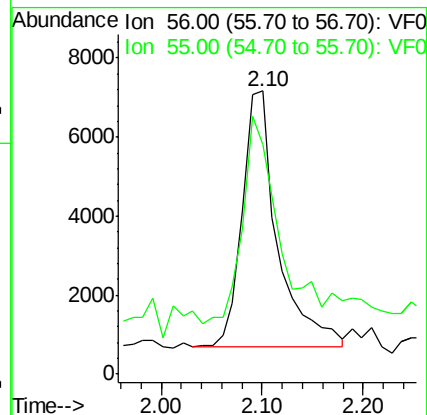
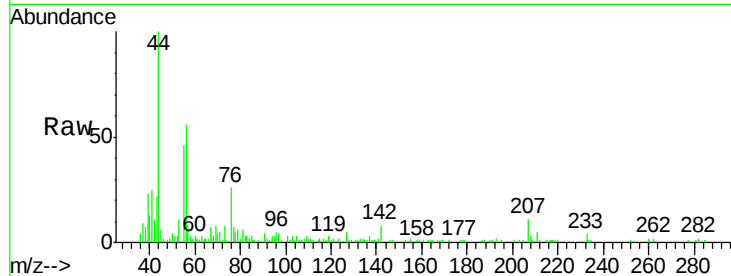
55 93.8 57.4 86.0#

Manual Integrations

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#14

Allyl chloride

Concen: 15.980 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

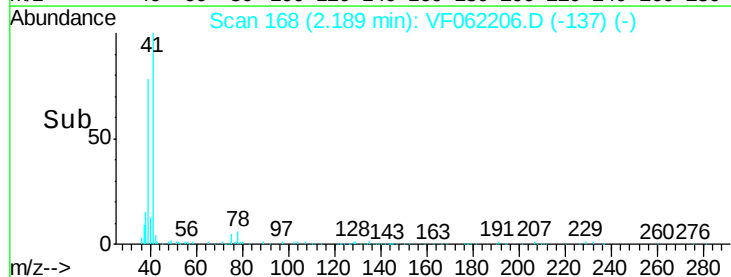
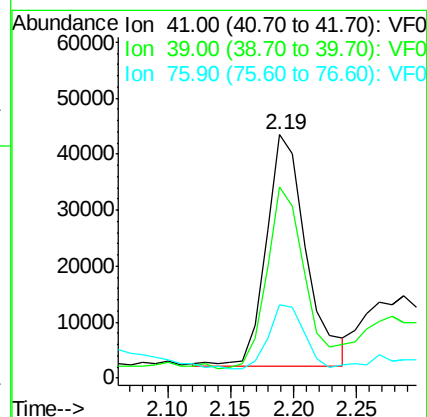
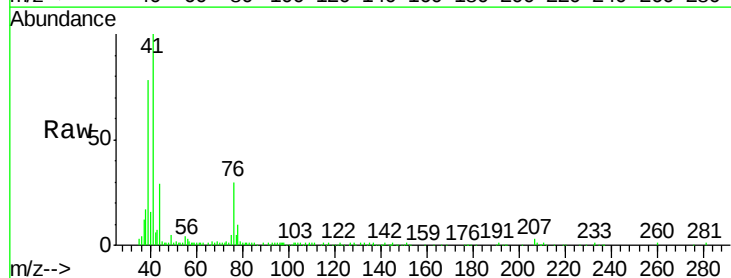
Tgt Ion: 41 Resp: 91426

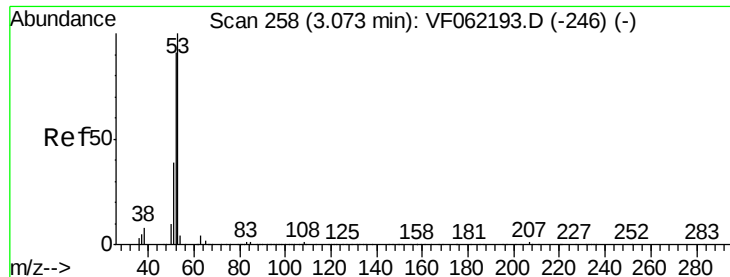
Ion Ratio Lower Upper

41 100

39 73.3 60.0 90.0

76 26.1 20.6 30.8





#15

Acrylonitrile

Concen: 96.965 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

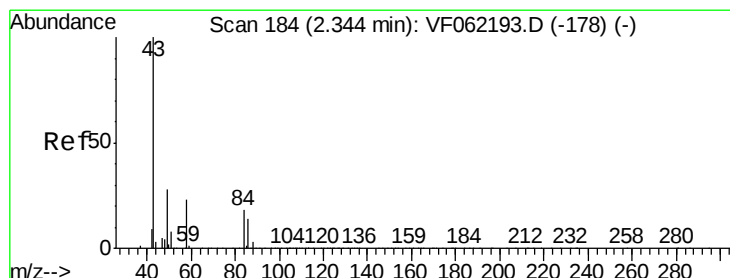
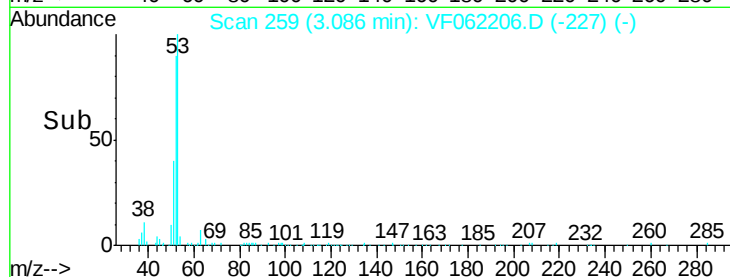
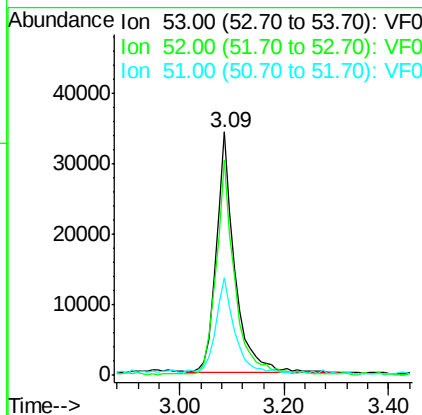
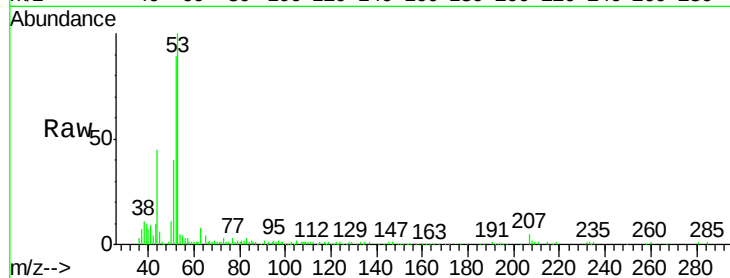
ClientSampleId :

VF0418SBS01

Tot Ion:	53	Resp:	84245
Ion Ratio	Lower	Upper	
53	100		
52	88.2	69.5	104.3
51	42.0	31.8	47.8

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#16

Acetone

Concen: 87.996 ug/l

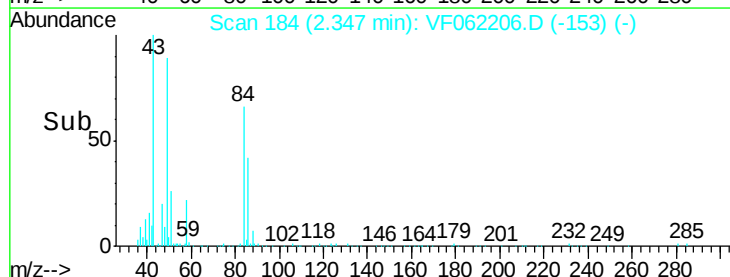
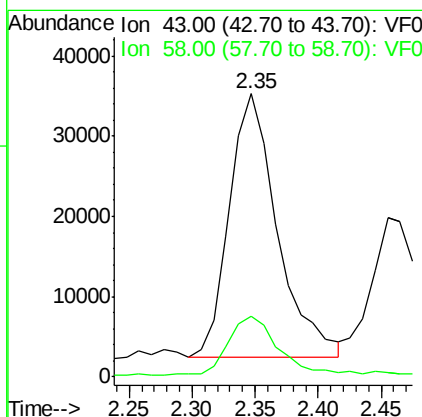
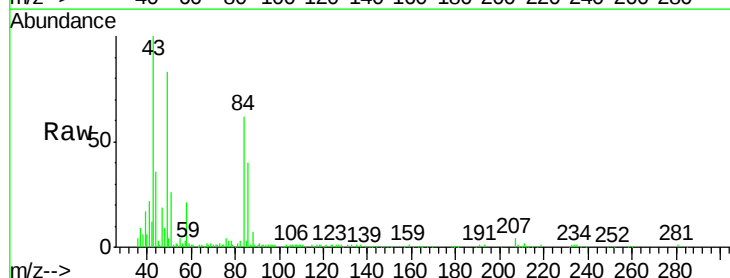
RT: 2.35 min Scan# 184

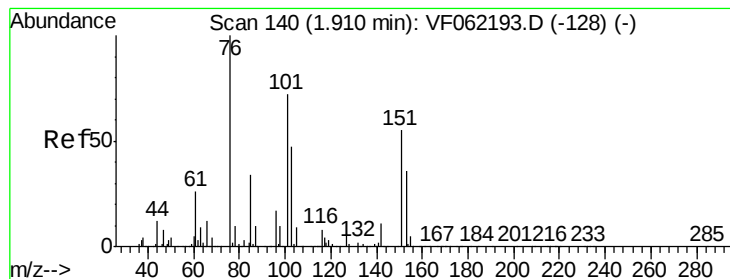
Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	43	Resp:	86315
Ion Ratio	Lower	Upper	
43	100		
58	21.9	18.8	28.2





#17

Carbon Disulfide

Concen: 18.256 ug/l m

RT: 1.91 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tot Ion: 76 Resp: 252911

Ion Ratio Lower Upper

76 100

78 11.5 8.7 13.1

Instrument :

MSVOA_F

ClientSampleId :

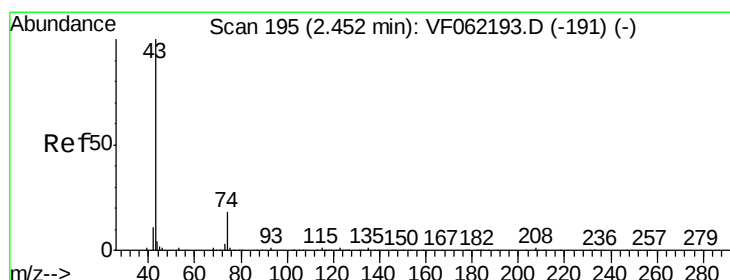
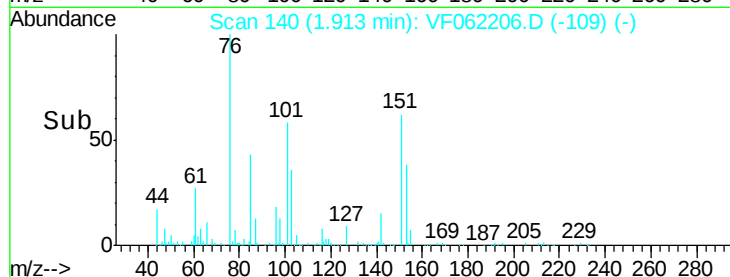
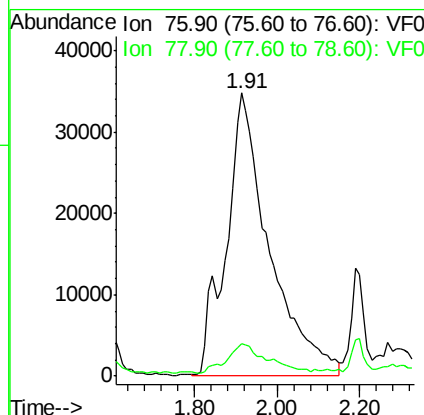
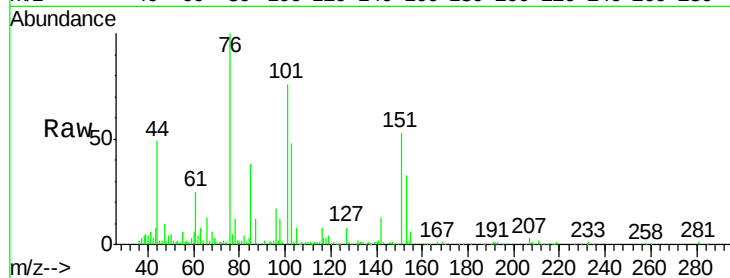
VF0418SBS01

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#18

Methyl Acetate

Concen: 17.424 ug/l

RT: 2.46 min Scan# 195

Delta R.T. 0.00 min

Lab File: VF062206.D

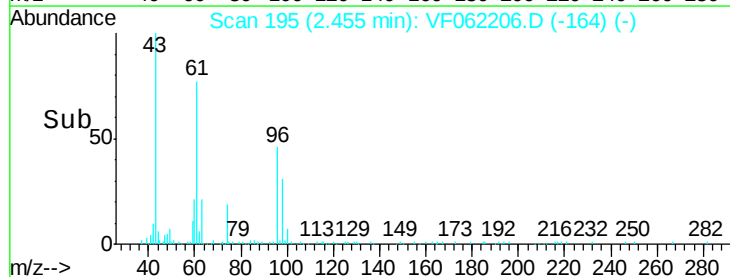
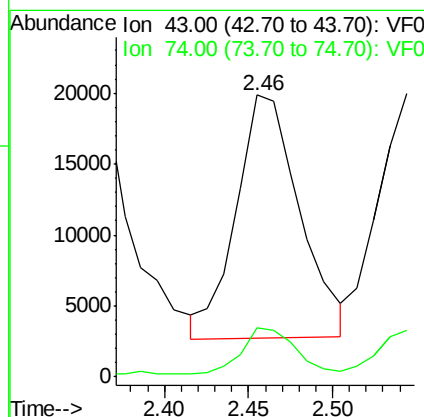
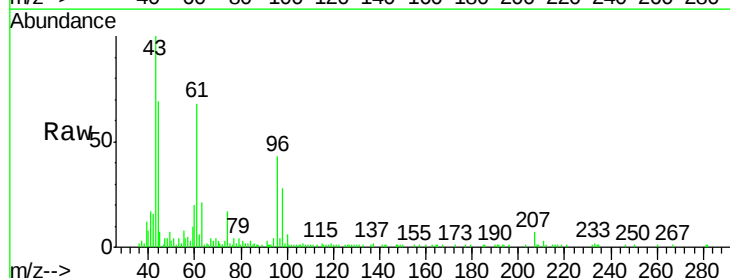
Acq: 18 Apr 2019 15:45

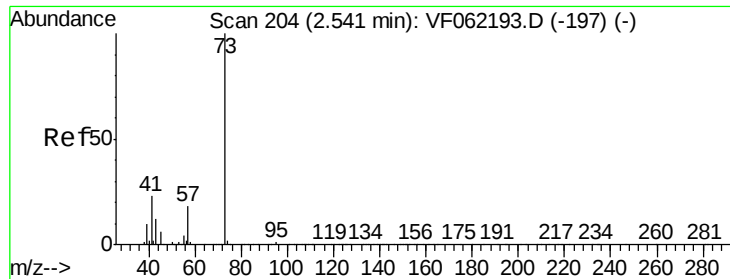
Tgt Ion: 43 Resp: 44852

Ion Ratio Lower Upper

43 100

74 17.0 14.5 21.7





#19

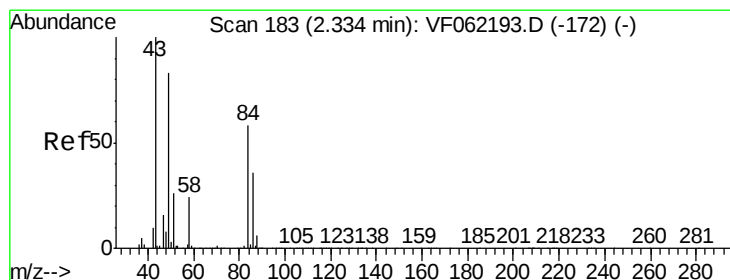
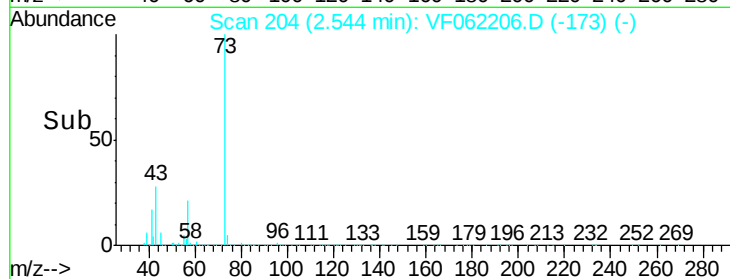
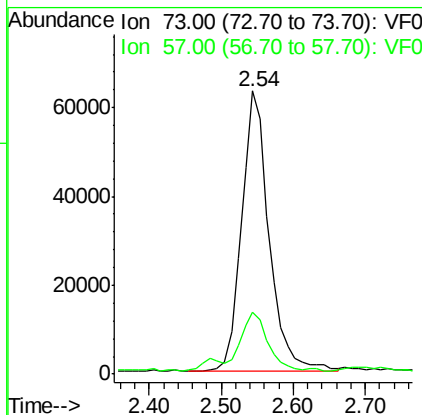
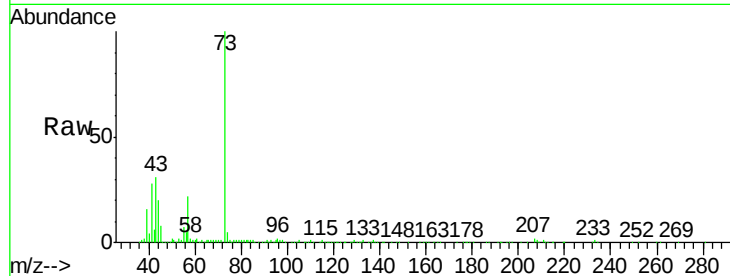
Methyl tert-butyl Ether
Concen: 19.033 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.00 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.6	15.1	22.7

Manual Integrations
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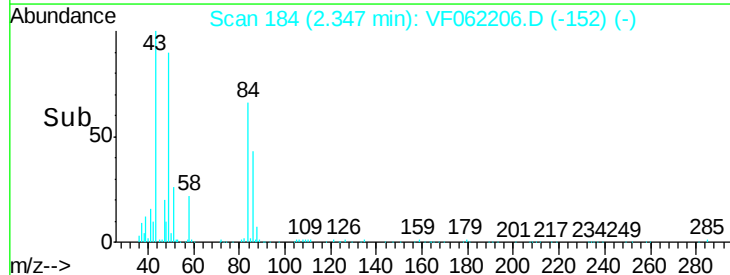
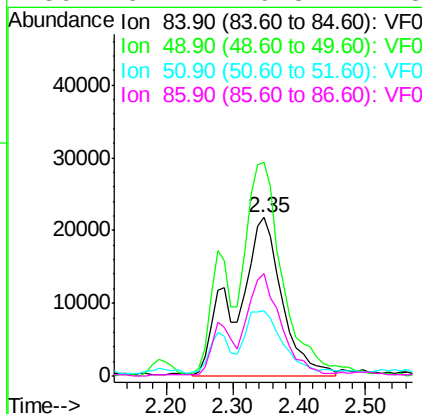
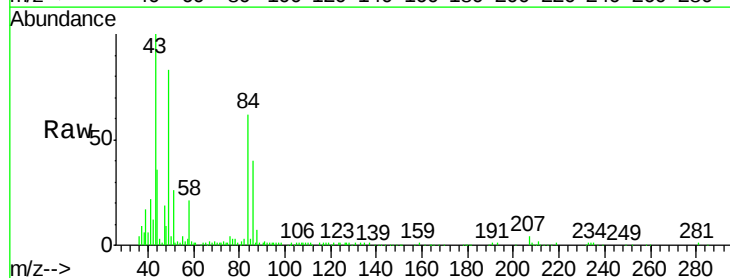
MMDadoda
4/19/2019 10:52:28 AM

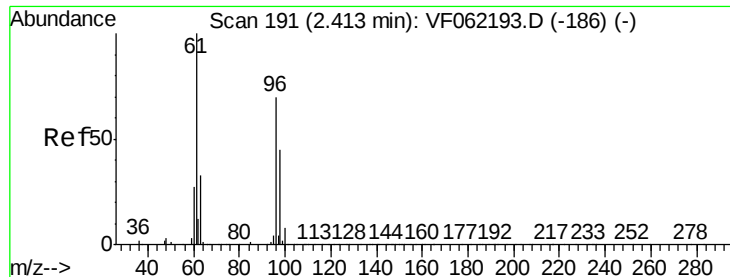


#20

Methylene Chloride
Concen: 18.195 ug/l m
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
84	100		
49	134.7	114.0	171.0
51	41.4	37.0	55.4
86	64.4	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 18.862 ug/l m

RT: 2.42 min Scan# 191

Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion: 96 Resp: 92994

Ion Ratio Lower Upper

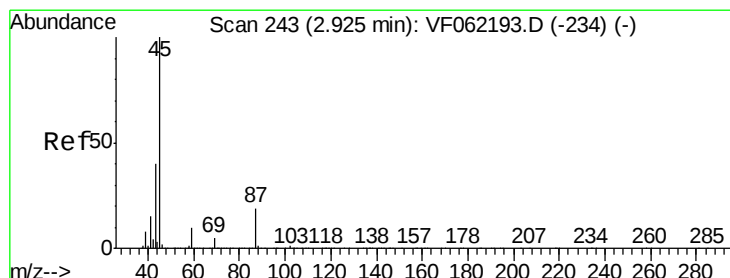
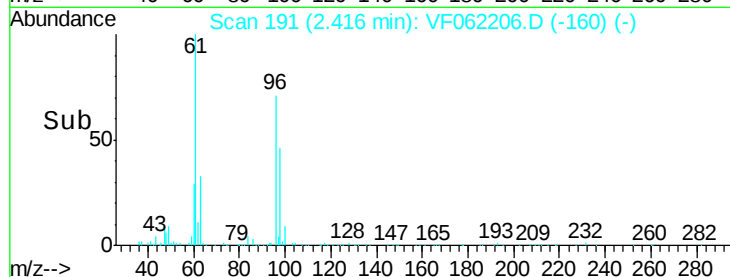
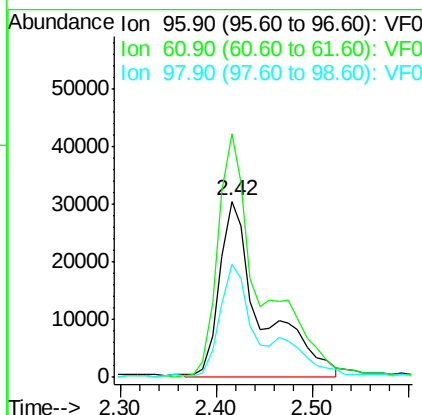
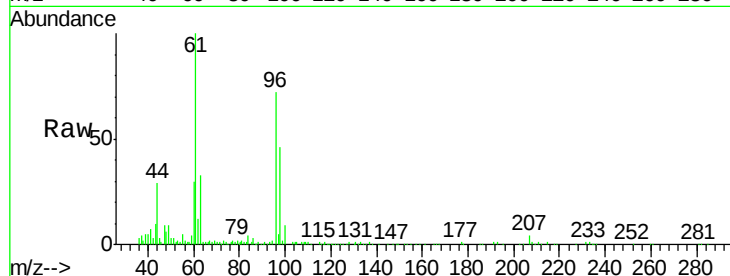
96 100

61 138.5 114.6 172.0

98 64.0 51.2 76.8

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#22

Diisopropyl ether

Concen: 18.484 ug/l

RT: 2.94 min Scan# 244

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion: 45 Resp: 270525

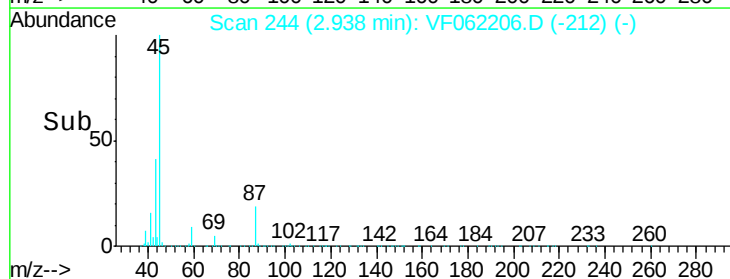
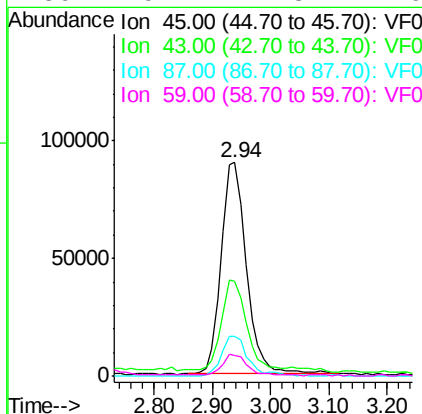
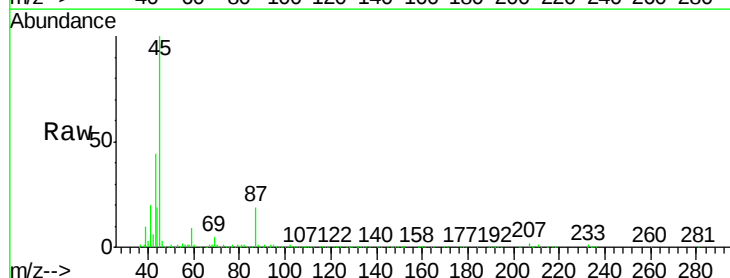
Ion Ratio Lower Upper

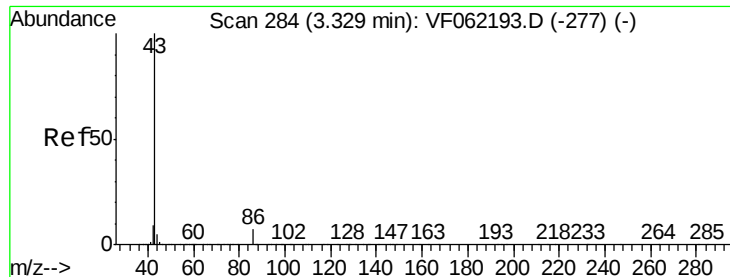
45 100

43 42.5 32.8 49.2

87 18.8 15.2 22.8

59 9.1 7.8 11.6





#23

Vinyl Acetate

Concen: 99.913 ug/l

RT: 3.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion: 43 Resp: 696694

Ion Ratio Lower Upper

43 100

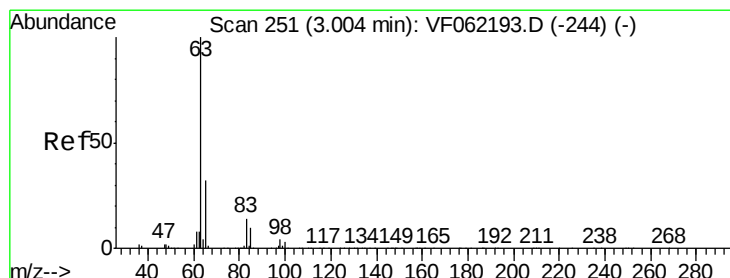
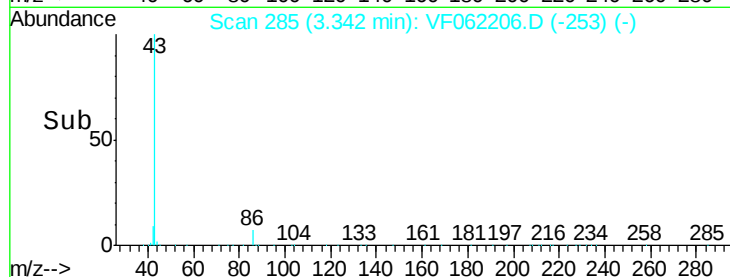
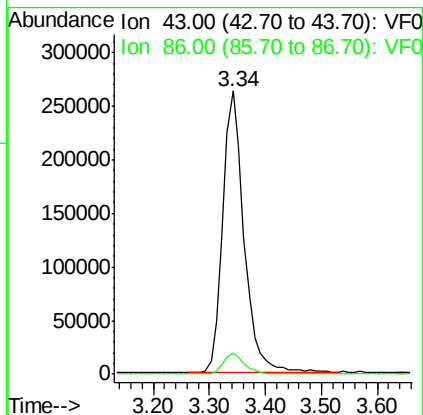
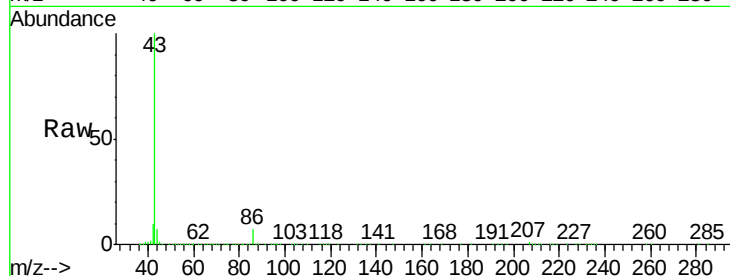
86 7.2 5.9 8.9

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#24

1,1-Dichloroethane

Concen: 19.818 ug/l

RT: 3.01 min Scan# 251

Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

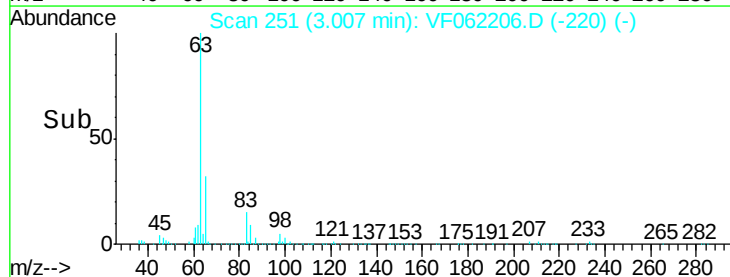
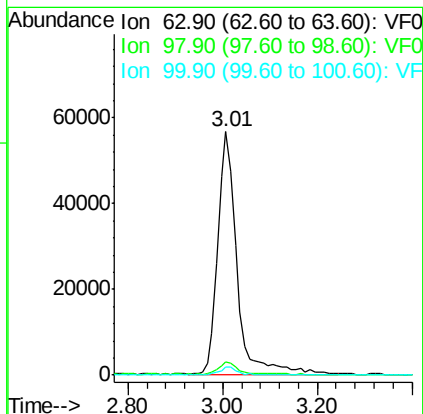
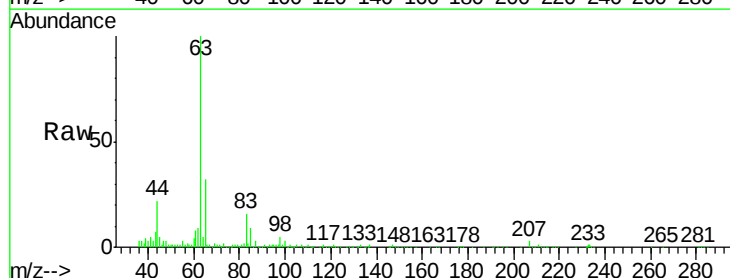
Tgt Ion: 63 Resp: 158665

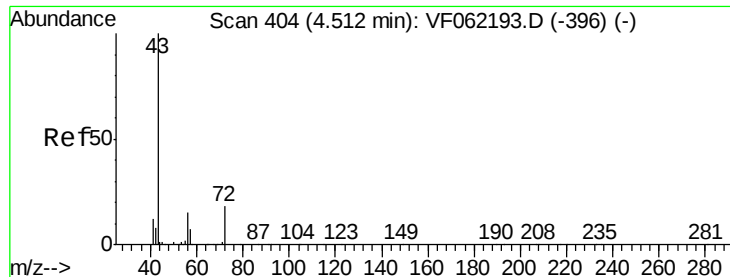
Ion Ratio Lower Upper

63 100

98 5.0 2.3 6.8

100 3.3 1.7 5.0





#25

2-Butanone

Concen: 91.122 ug/l

RT: 4.53 min Scan# 405

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion: 43 Resp: 178721

Ion Ratio Lower Upper

43 100

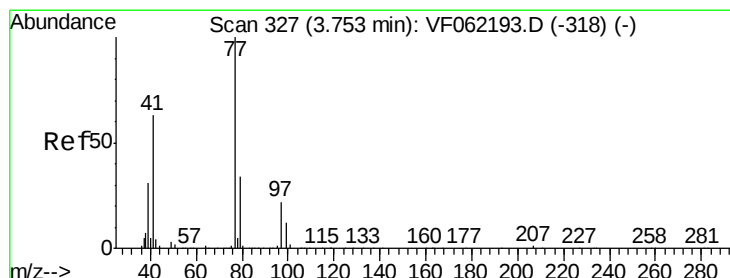
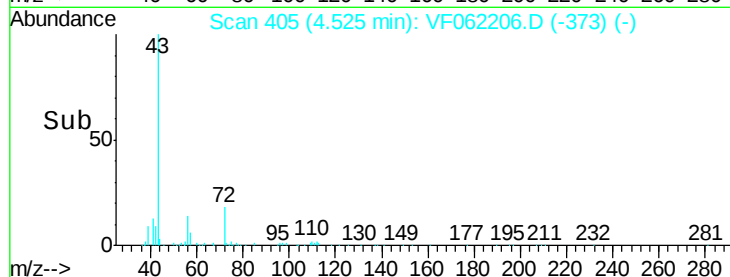
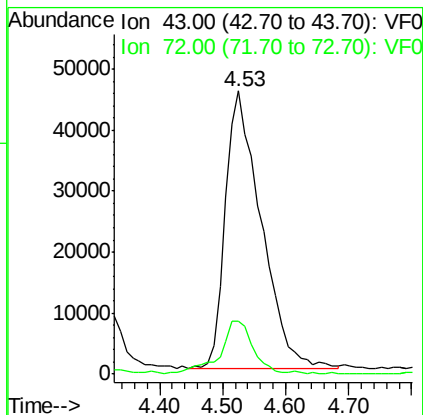
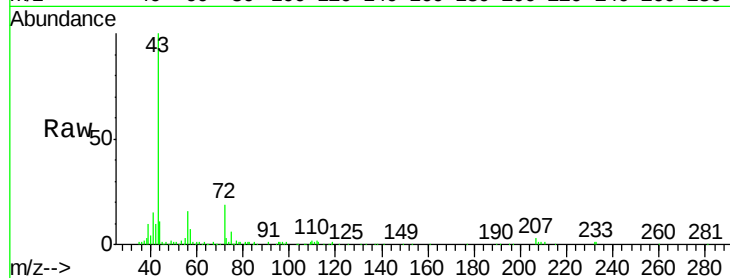
72 18.9 16.1 24.1

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#26

2,2-Dichloropropane

Concen: 18.330 ug/l

RT: 3.78 min Scan# 329

Delta R.T. 0.02 min

Lab File: VF062206.D

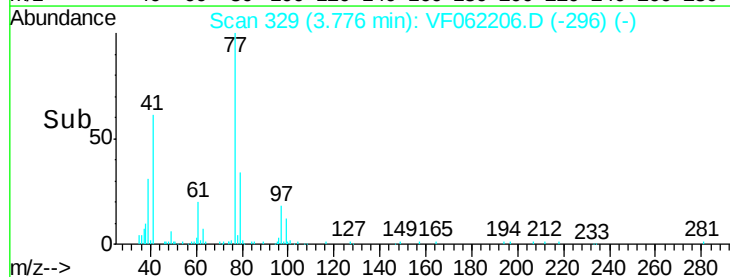
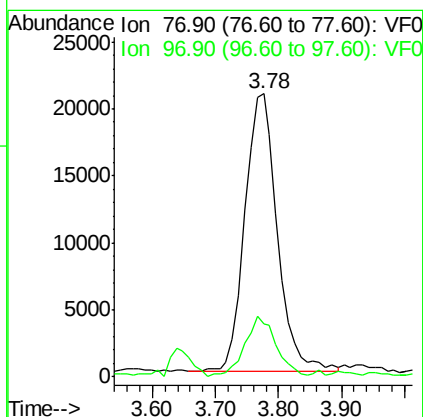
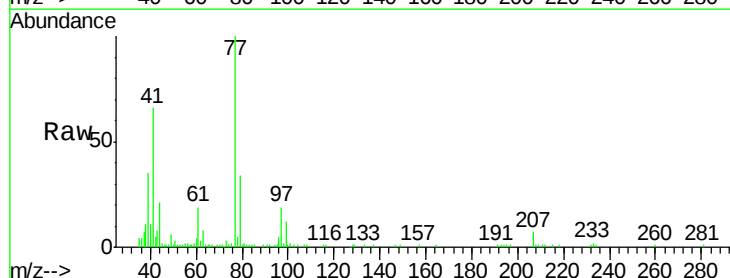
Acq: 18 Apr 2019 15:45

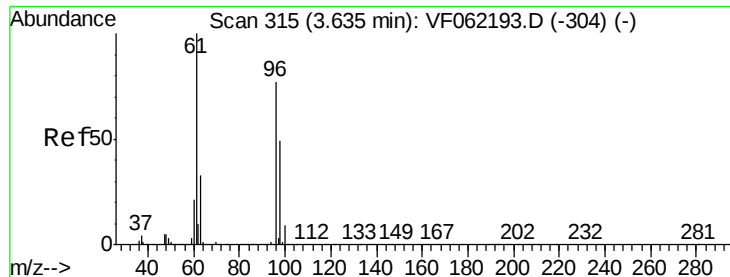
Tgt Ion: 77 Resp: 74091

Ion Ratio Lower Upper

77 100

97 21.6 11.1 33.3





#27

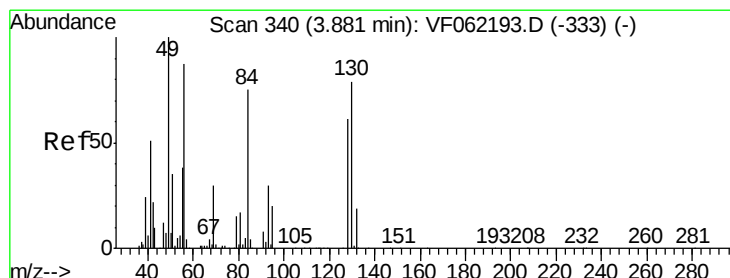
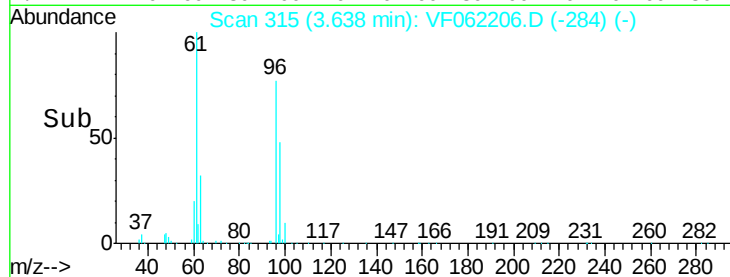
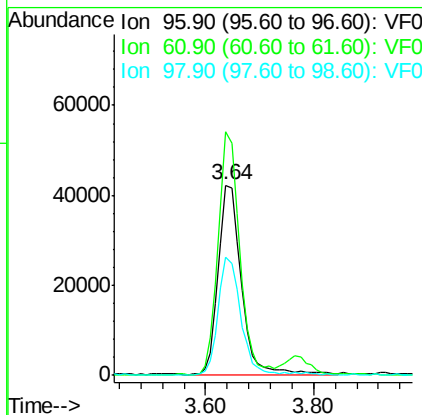
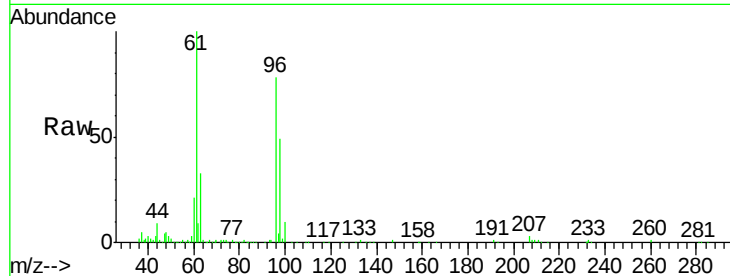
cis-1,2-Dichloroethene
Concen: 19.423 ug/l
RT: 3.64 min Scan# 315
Delta R.T. 0.00 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	124008		
61	121.3		0.0	253.6
98	61.0		0.0	124.8

Manual Integrations
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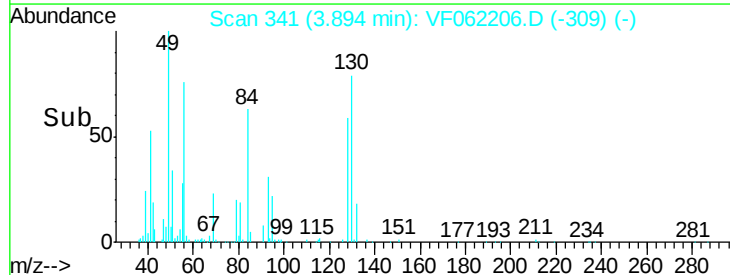
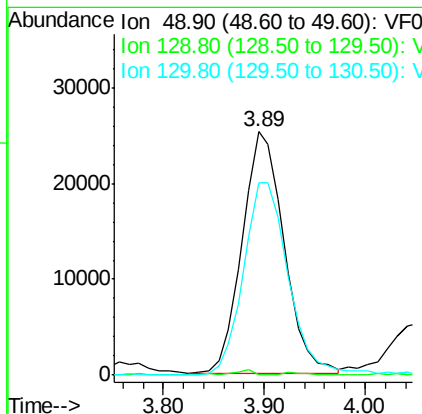
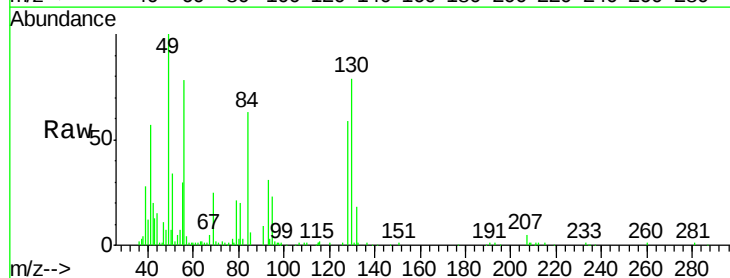
MMDadoda
4/19/2019 10:52:28 AM



#28

Bromochloromethane
Concen: 19.069 ug/l
RT: 3.89 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	73132		
129	1.0		0.0	0.0#
130	86.5		66.6	100.0





#29

Tetrahydrofuran

Concen: 95.431 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

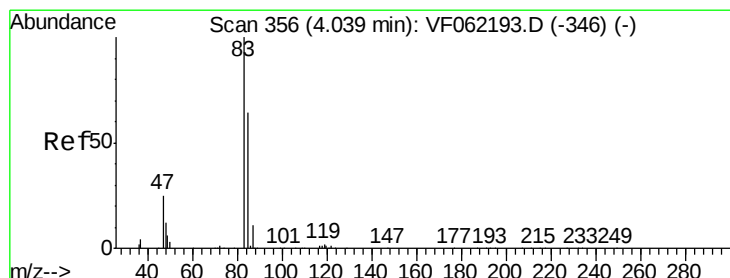
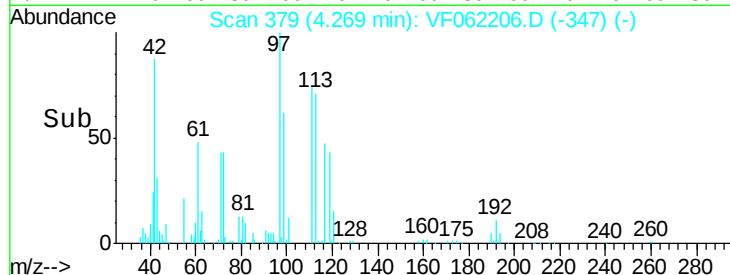
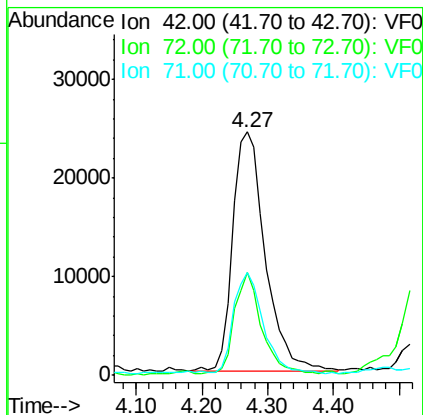
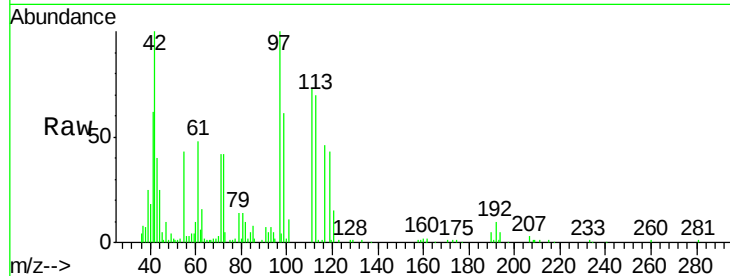
ClientSampleId :

VF0418SBS01

Tot Ion:	42	Resp:	84721
Ion Ratio		Lower	Upper
42	100		
72	34.9	28.6	43.0
71	40.9	29.2	43.8

Manual Integrations
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4/19/2019 10:52:28 AM



#30

Chloroform

Concen: 19.163 ug/l

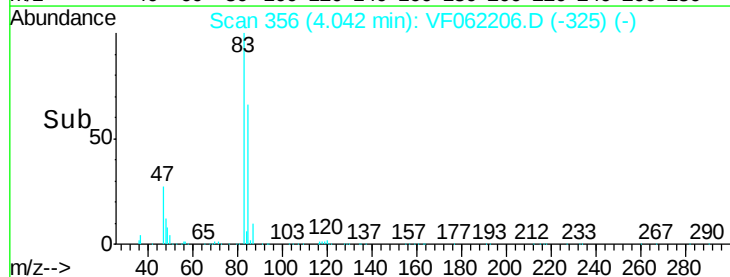
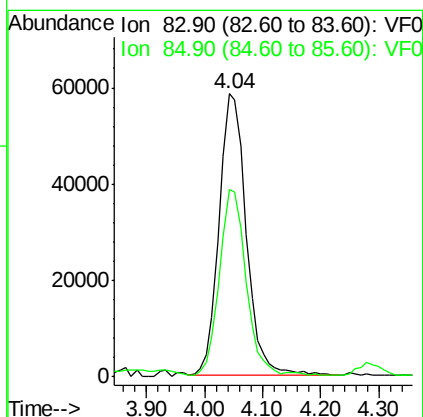
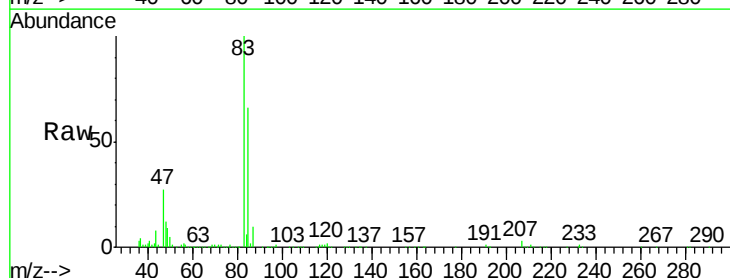
RT: 4.04 min Scan# 356

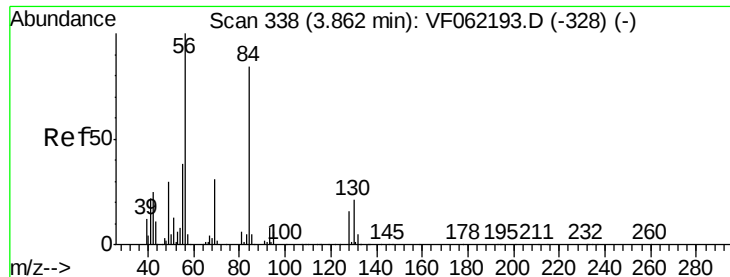
Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	83	Resp:	188547
Ion Ratio		Lower	Upper
83	100		
85	66.2	51.8	77.8





#31

Cyclohexane

Concen: 17.866 ug/l

RT: 3.86 min Scan# 338

Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

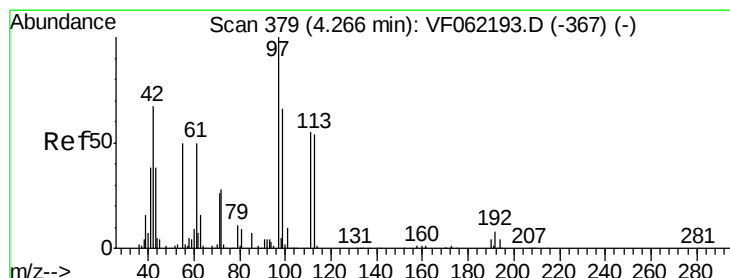
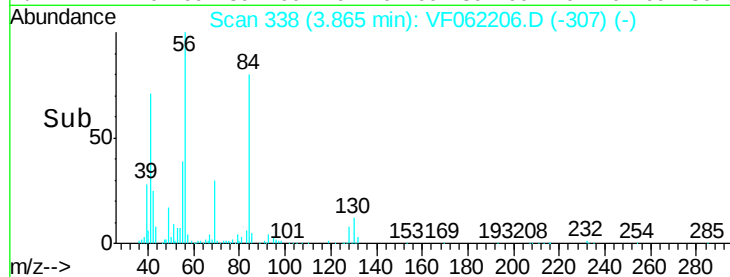
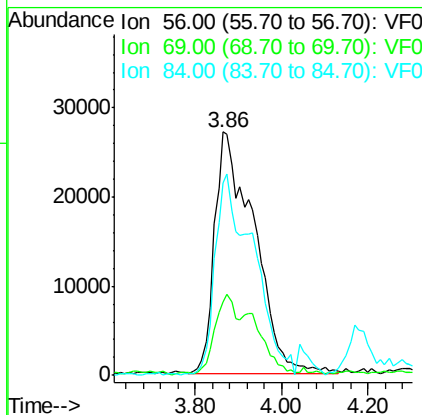
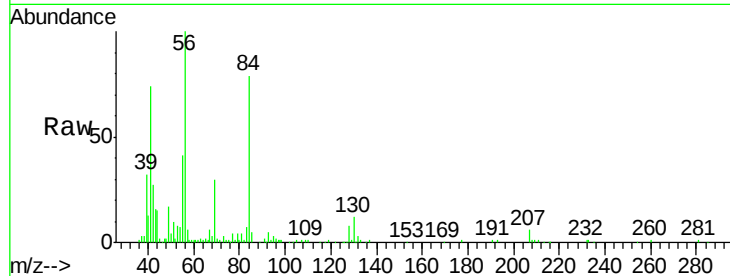
ClientSampleId :

VF0418SBS01

Tot Ion:	56	Resp:	171413
Ion	Ratio	Lower	Upper
56	100		
69	29.3	25.1	37.7
84	79.2	67.8	101.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 15.968 ug/l

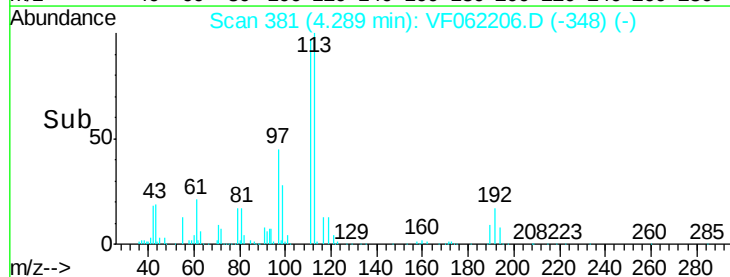
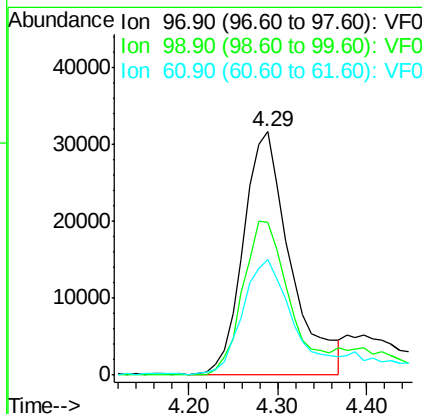
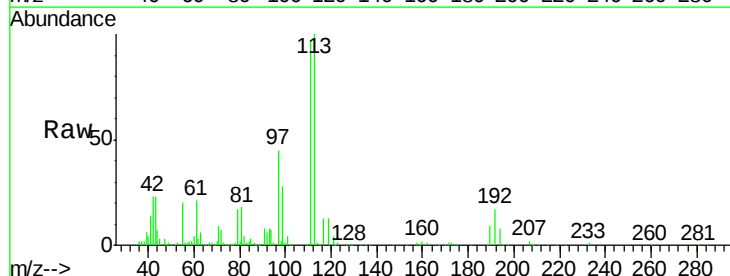
RT: 4.29 min Scan# 381

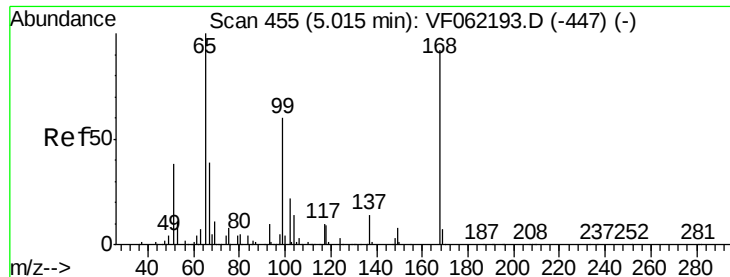
Delta R.T. 0.02 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	97	Resp:	115002
Ion	Ratio	Lower	Upper
97	100		
99	63.6	52.7	79.1
61	51.7	53.0	79.4#





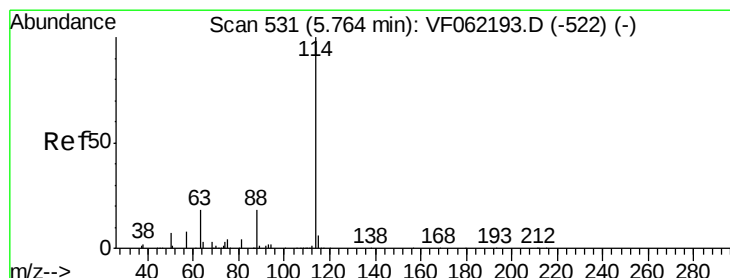
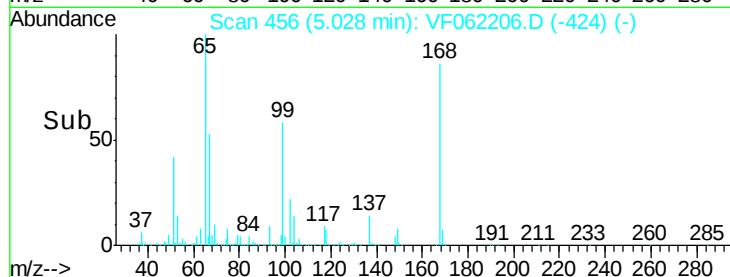
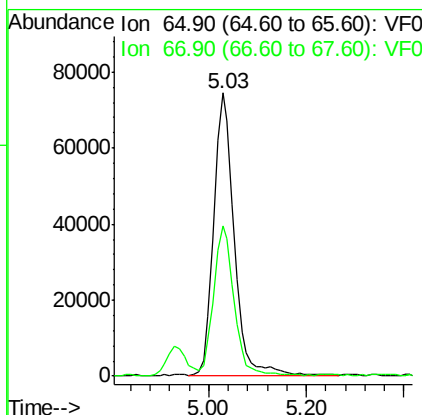
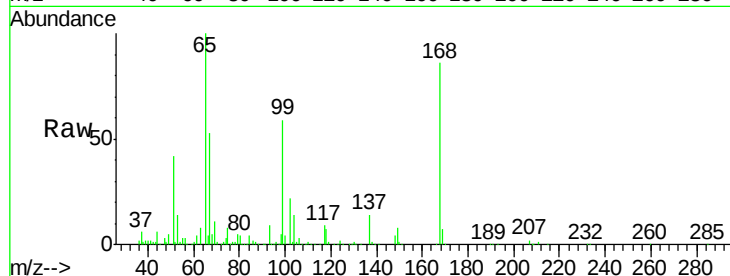
#33
 1,2-Dichloroethane-d4
 Concen: 52.895 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. 0.01 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0418SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	217065		
67	52.5	0.0	109.4	

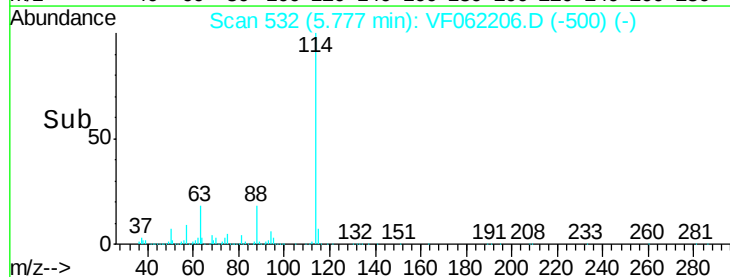
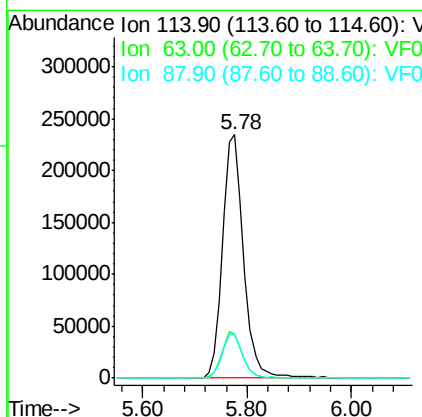
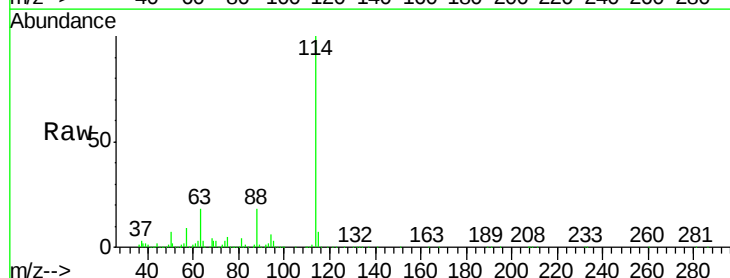
Manual Integrations
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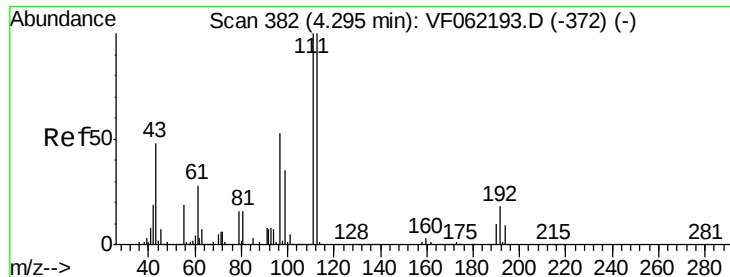
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 4/19/2019 10:52:28 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	650573		
63	17.9	0.0	36.6	
88	18.1	0.0	35.8	





#35

Dibromofluoromethane

Concen: 50.318 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

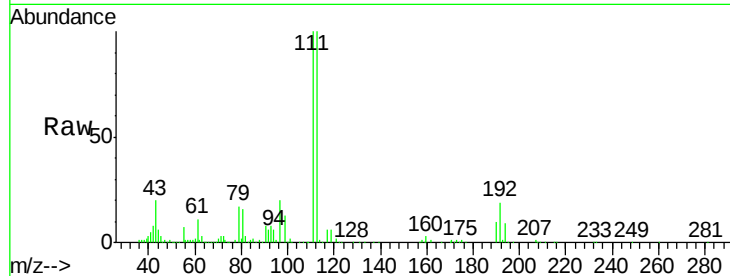
ClientSampleId :

VF0418SBS01

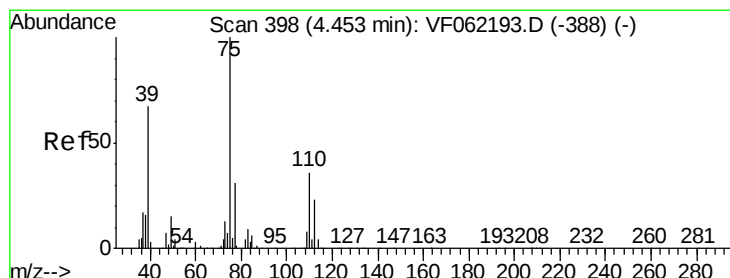
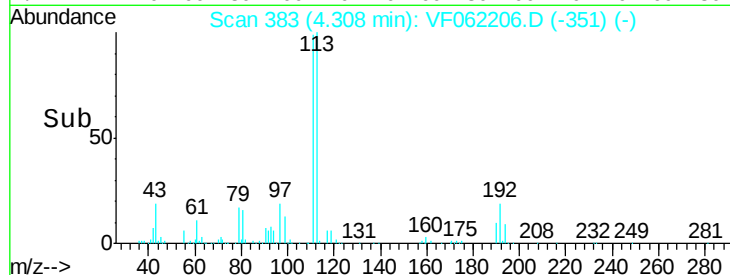
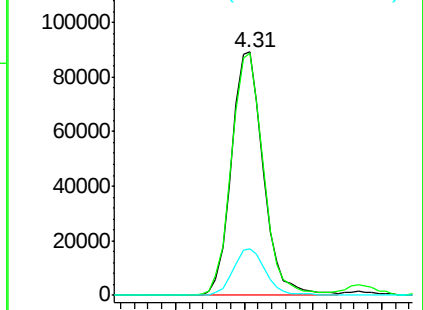
Tot Ion:	113	Resp:	286351
Ion Ratio	Lower	Upper	
113	100		
111	99.8	81.1	121.7
192	19.2	14.7	22.1

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Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 18.750 ug/l

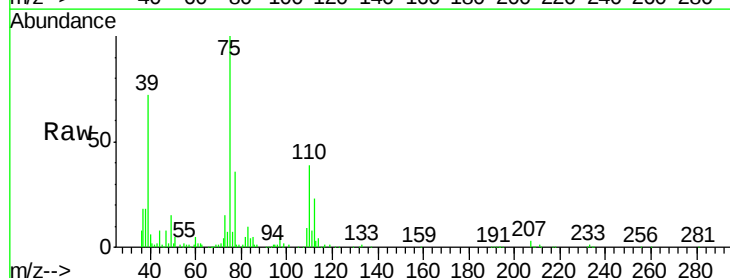
RT: 4.47 min Scan# 399

Delta R.T. 0.01 min

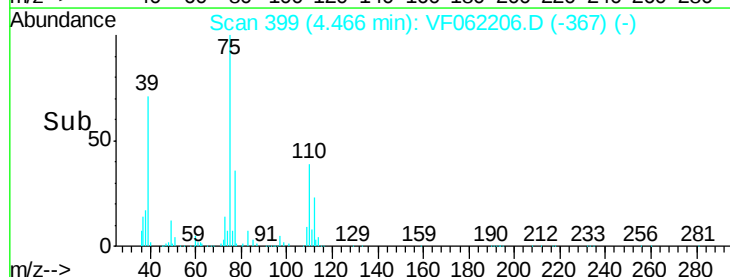
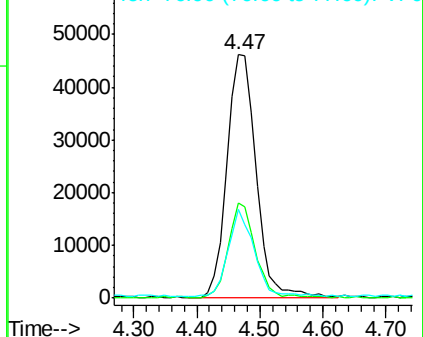
Lab File: VF062206.D

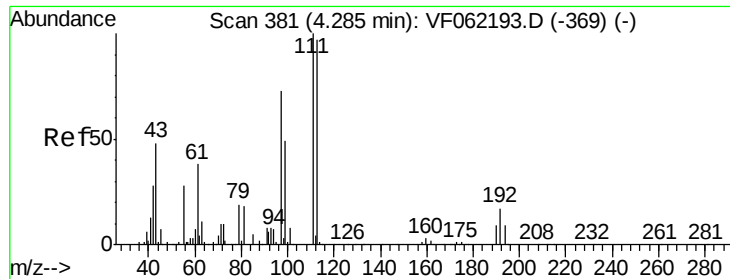
Acq: 18 Apr 2019 15:45

Tgt Ion:	75	Resp:	146249
Ion Ratio	Lower	Upper	
75	100		
110	36.5	18.4	55.2
77	32.2	25.4	38.2



Abundance Ion 74.90 (74.60 to 75.60): VF0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VF0





#37

Ethyl Acetate

Concen: 18.986 ug/l

RT: 4.31 min Scan# 383

Delta R.T. 0.02 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

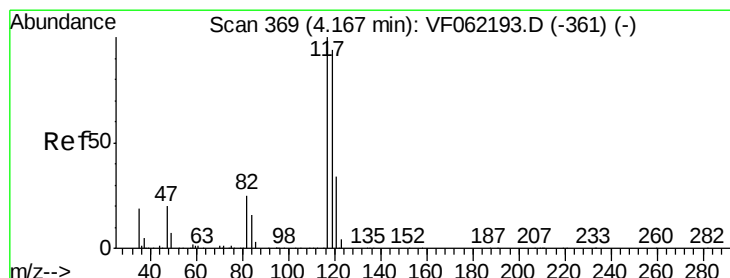
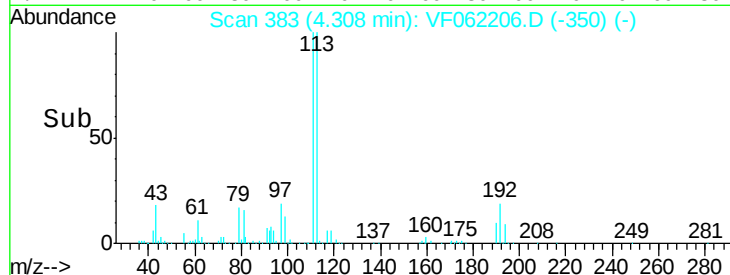
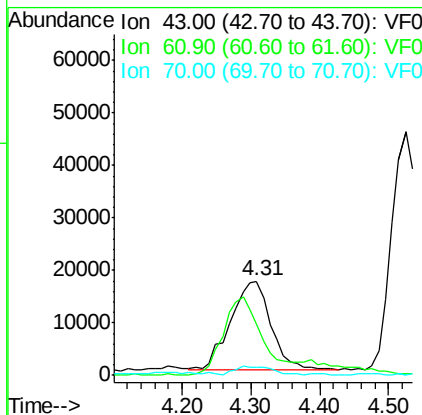
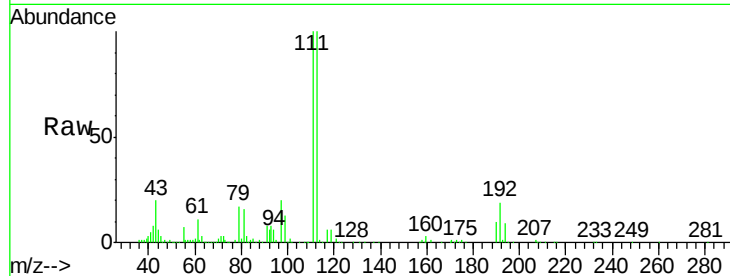
ClientSampleId :

VF0418SBS01

Tot Ion:	43	Resp:	69880
Ion	Ratio	Lower	Upper
43	100		
61	85.0	0.0	0.0#
70	9.8	7.8	11.6

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 18.443 ug/l

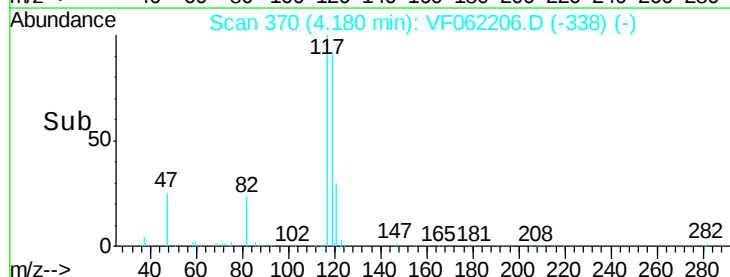
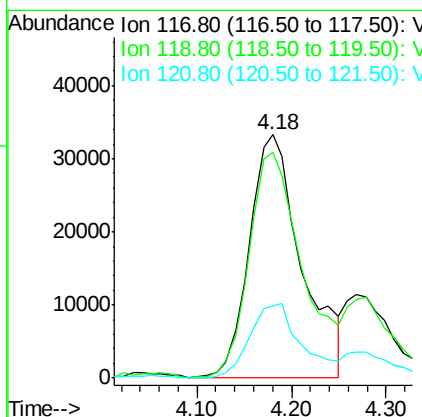
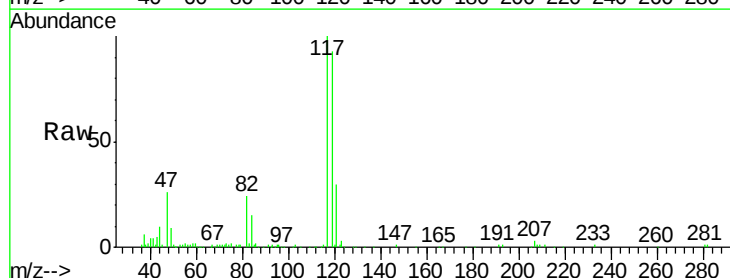
RT: 4.18 min Scan# 370

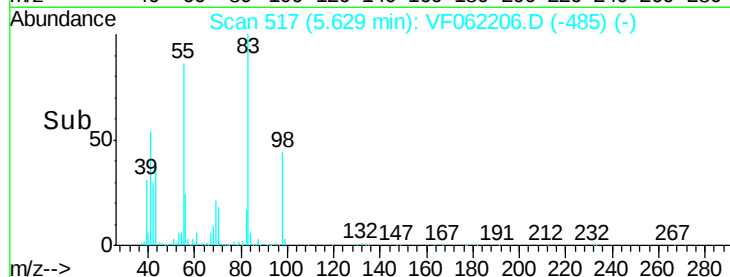
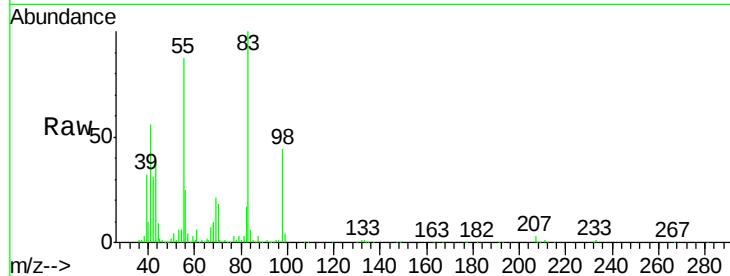
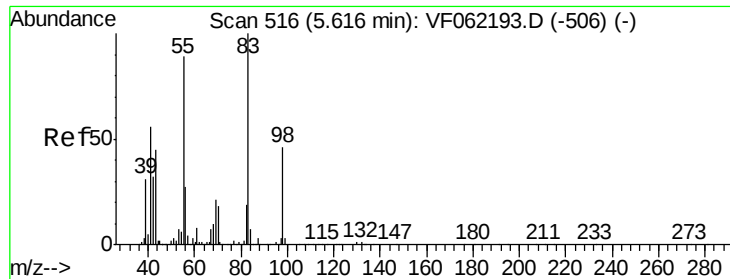
Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	117	Resp:	127332
Ion	Ratio	Lower	Upper
117	100		
119	92.5	75.0	112.4
121	29.5	26.9	40.3





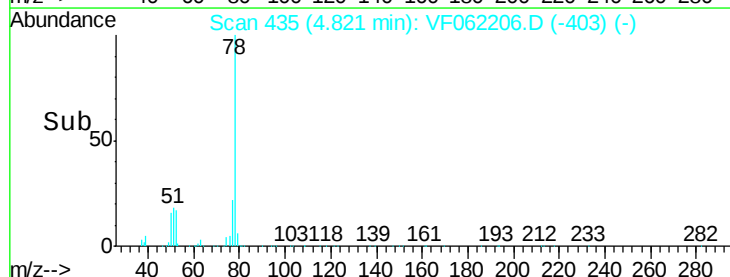
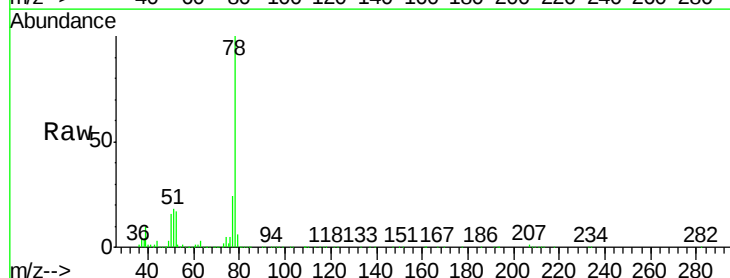
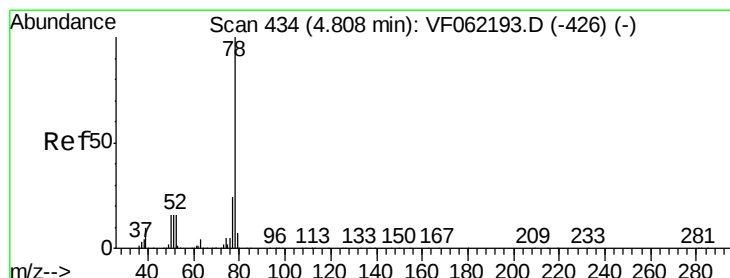
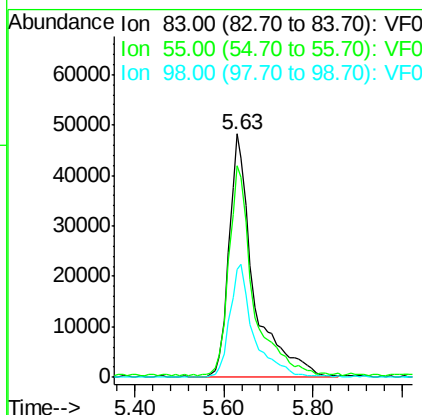
#39
Methvlcvclohexane
Concen: 20.144 ug/l
RT: 5.63 min Scan# 517
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tot Ion	Ratio	Resp	Lower	Upper
83	100	188129		
55	86.3	71.0	106.6	
98	44.3	36.7	55.1	

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

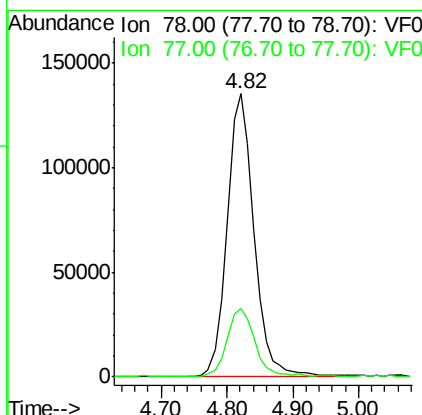
Manual Integrations
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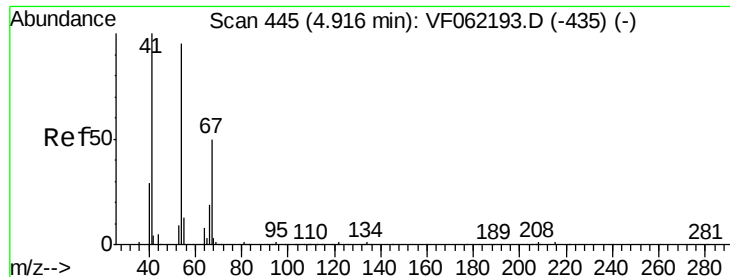
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#40
Benzene
Concen: 19.050 ug/l
RT: 4.82 min Scan# 435
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	389739		
77	23.8	18.9	28.3	





#41

Methacrylonitrile

Concen: 18.315 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.02 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

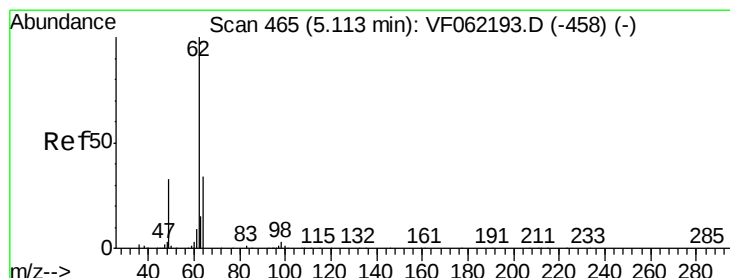
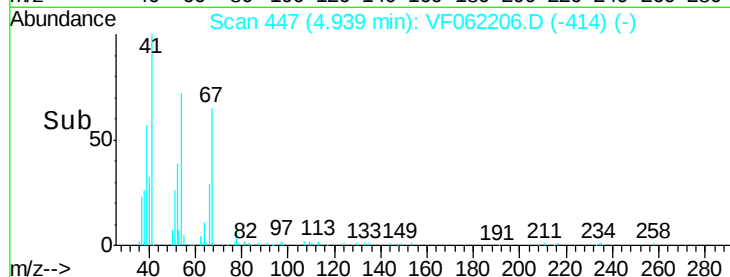
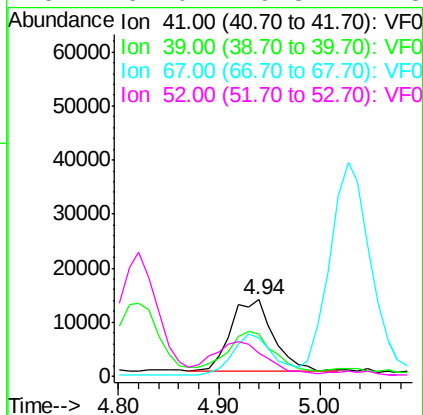
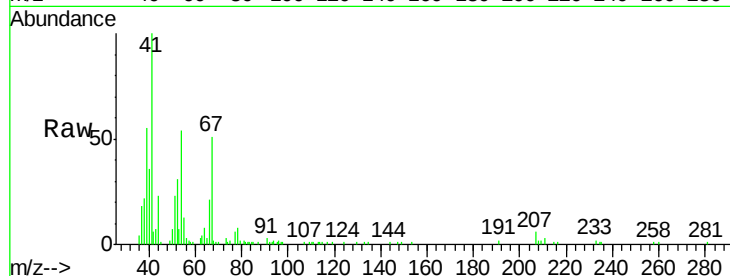
ClientSampleId :

VF0418SBS01

Tot Ion	Ratio	Lower	Upper
41	100		
39	63.9	44.7	67.1
67	55.6	39.1	58.7
52	61.0	49.8	74.8

Manual Integrations
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4/19/2019 10:52:28 AM



#42

1,2-Dichloroethane

Concen: 19.263 ug/l

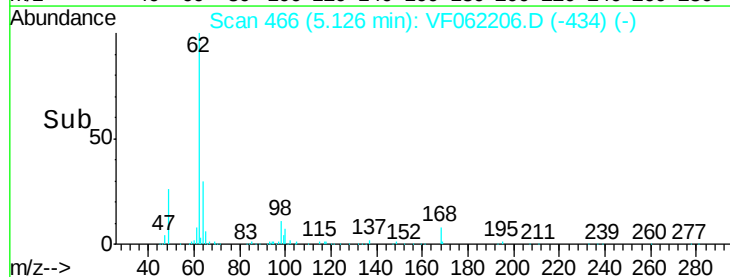
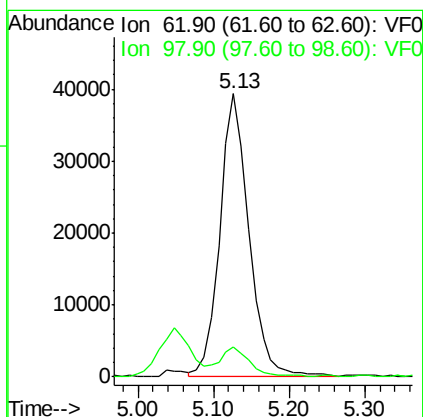
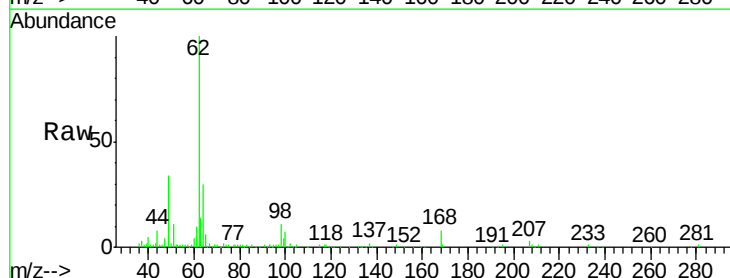
RT: 5.13 min Scan# 466

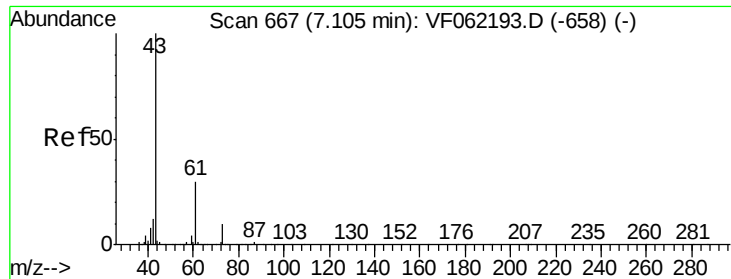
Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	19.0





#43

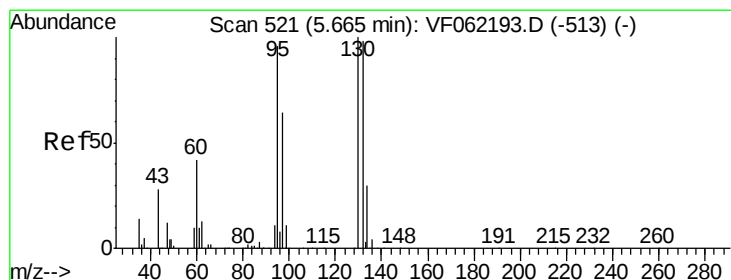
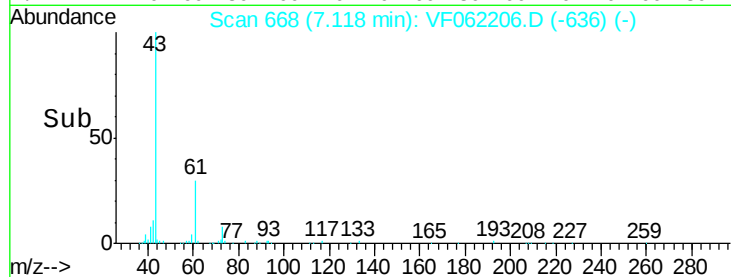
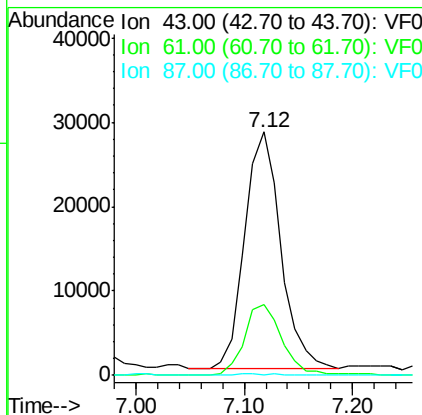
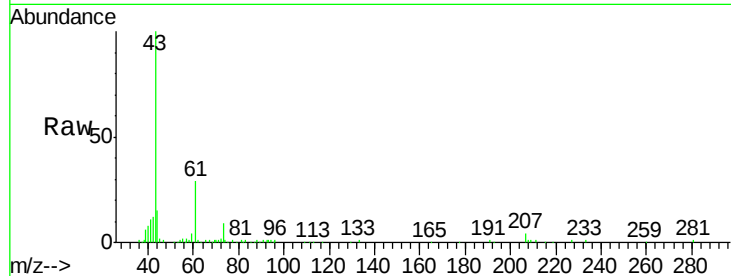
Isopropyl Acetate
 Concen: 16.944 ug/l
 RT: 7.12 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0418SBS01

Tot Ion	Ratio	Resp	Lower	Upper
43	100	65592		
61	30.9		24.4	36.6
87	0.6		0.4	0.6#

Manual Integrations
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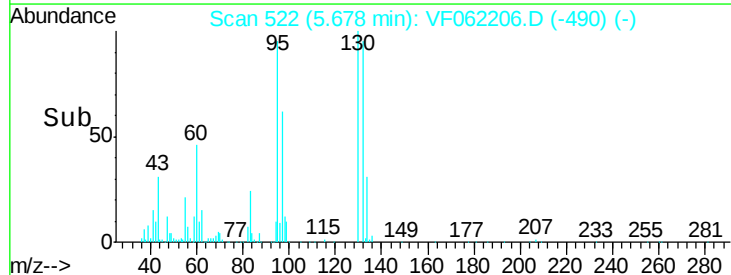
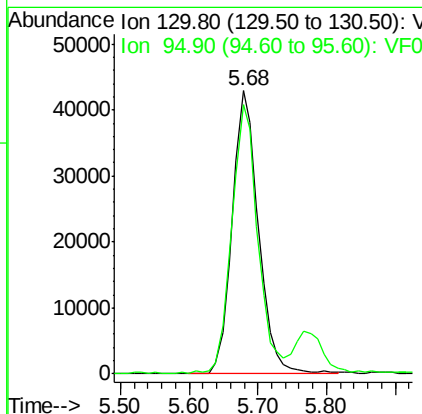
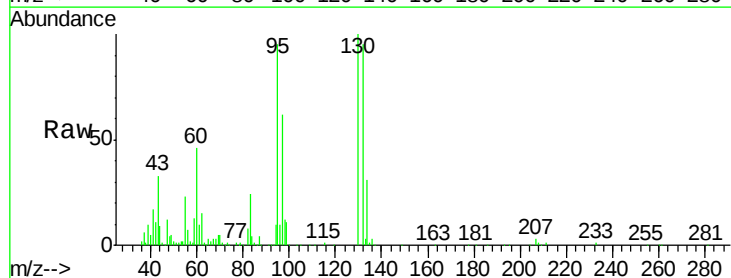
MMDadoda
 4/19/2019 10:52:28 AM

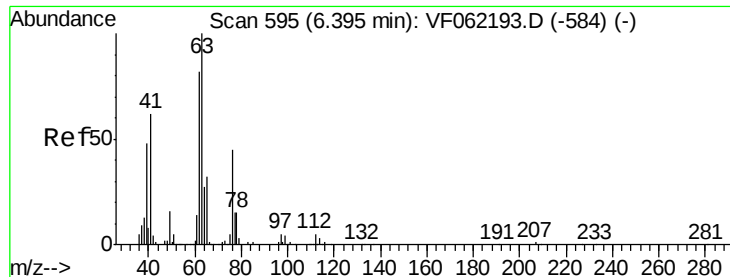


#44

Trichloroethene
 Concen: 20.473 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. 0.01 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	113184		
95	94.8		0.0	191.4





#45

1,2-Dichloropropane

Concen: 19.320 ug/l

RT: 6.41 min Scan# 596

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion: 63 Resp: 87069

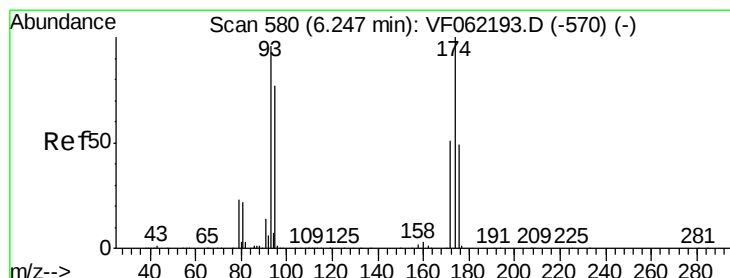
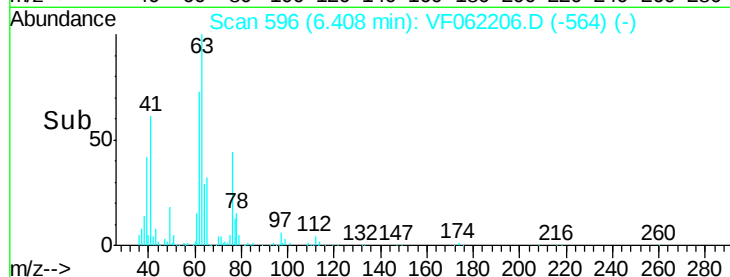
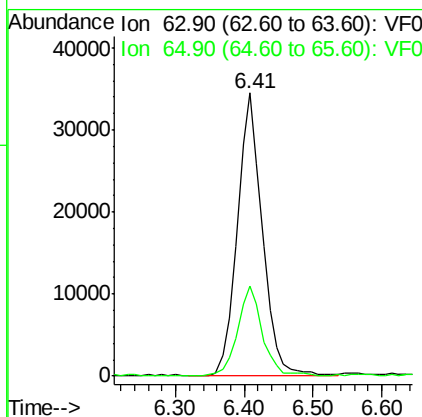
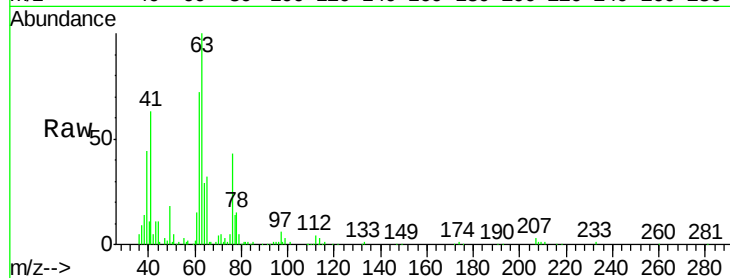
Ion Ratio Lower Upper

63 100

65 31.7 25.9 38.9

Manual Integrations
APPROVED

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#46

Dibromomethane

Concen: 19.634 ug/l

RT: 6.26 min Scan# 581

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

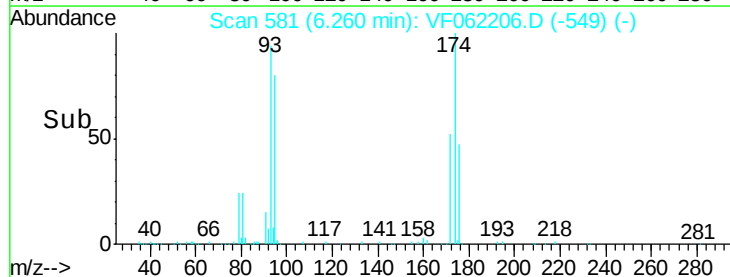
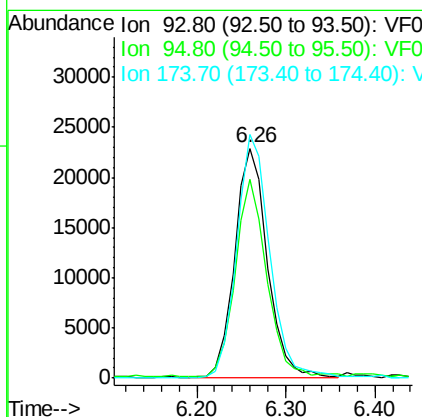
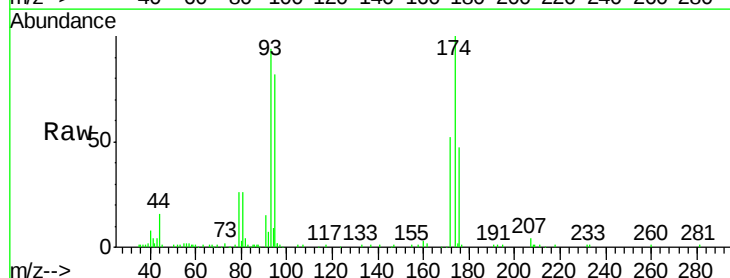
Tgt Ion: 93 Resp: 58871

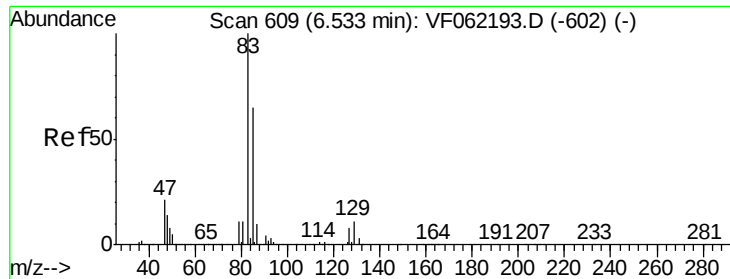
Ion Ratio Lower Upper

93 100

95 81.7 65.1 97.7

174 106.6 81.8 122.6





#47

Bromodichloromethane

Concen: 19.643 ug/l

RT: 6.56 min Scan# 611

Delta R.T. 0.02 min

Lab File: VF062206.D

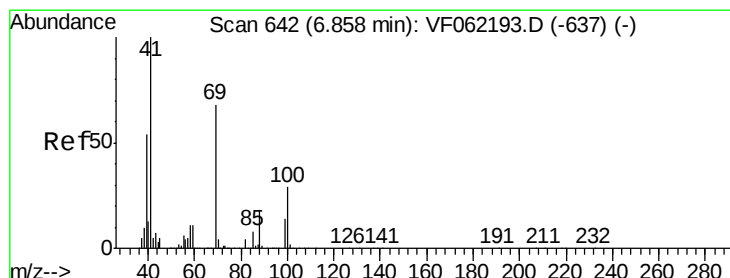
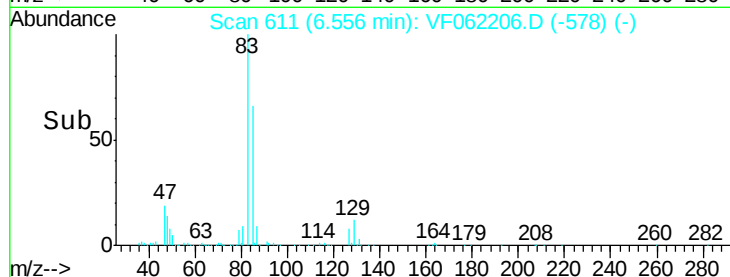
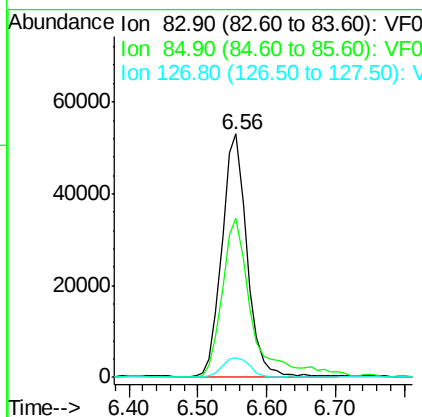
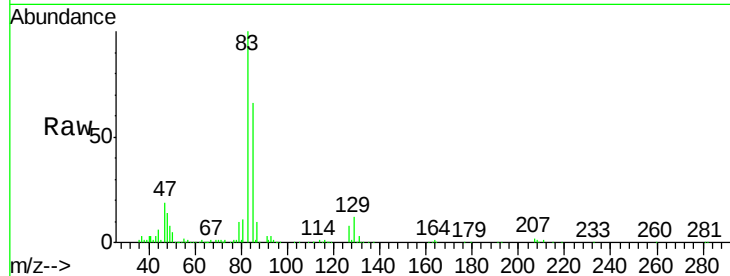
Acq: 18 Apr 2019 15:45

Tot Ion:	83	Resp:	132905
Ion Ratio	Lower	Upper	
83	100		
85	65.9	52.2	78.4
127	8.3	6.7	10.1

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Manual Integrations
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#48

Methyl methacrylate

Concen: 17.708 ug/l

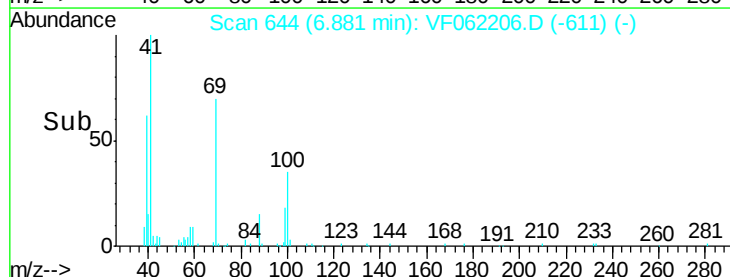
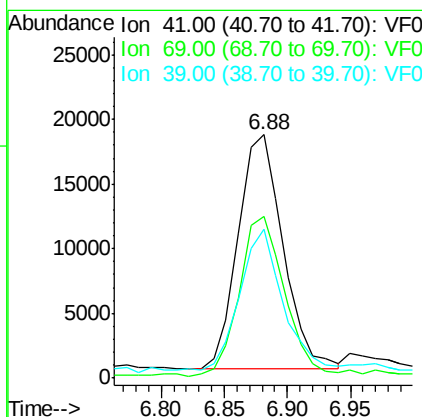
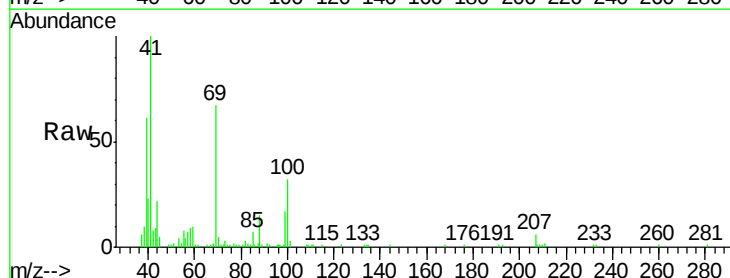
RT: 6.88 min Scan# 644

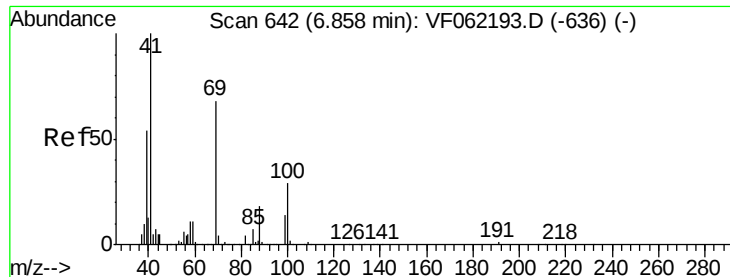
Delta R.T. 0.02 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	41	Resp:	45050
Ion Ratio	Lower	Upper	
41	100		
69	67.5	54.9	82.3
39	57.3	43.6	65.4





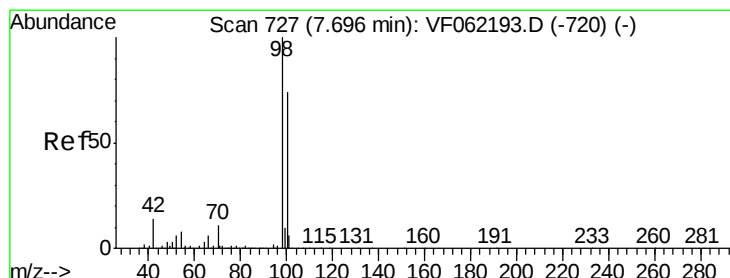
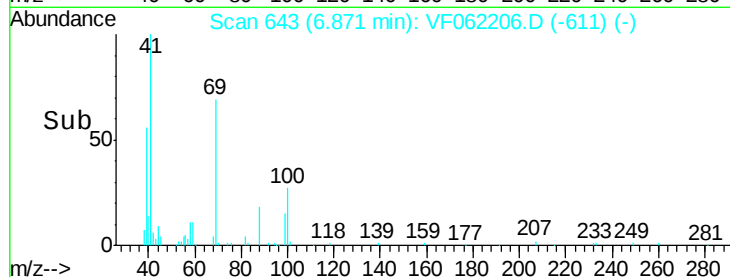
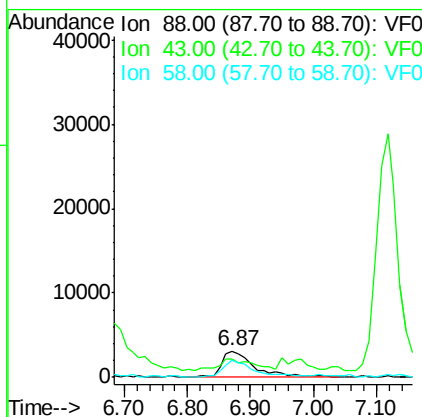
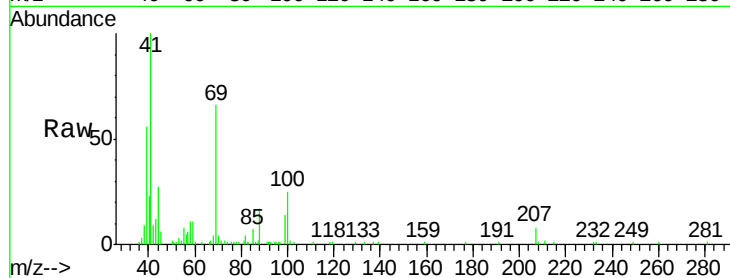
#49
1,4-Dioxane
Concen: 383.527 ug/l
RT: 6.87 min Scan# 643
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	11190		
43	46.4	36.9	55.3	
58	63.6	56.8	85.2	

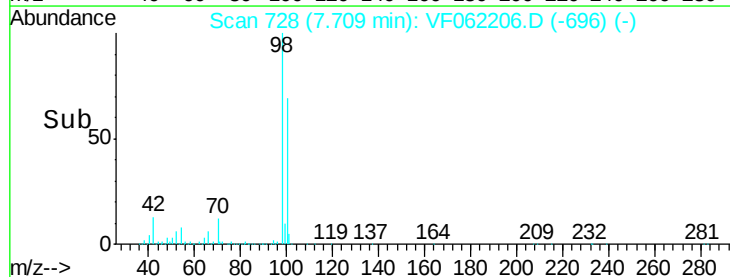
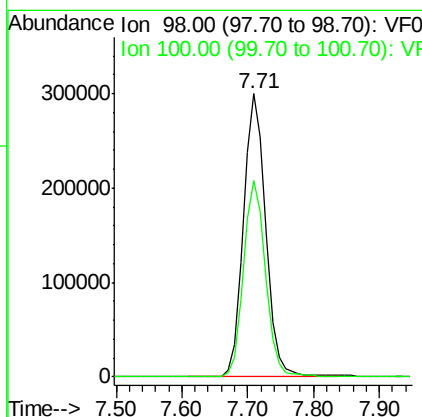
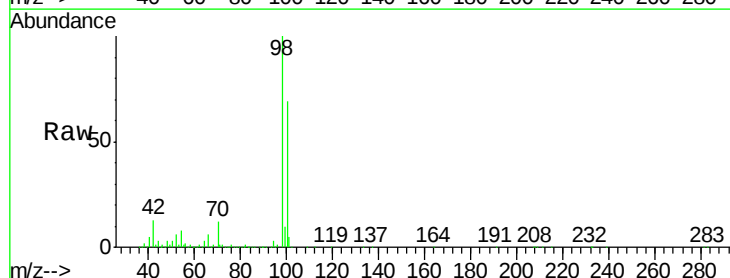
Manual Integrations
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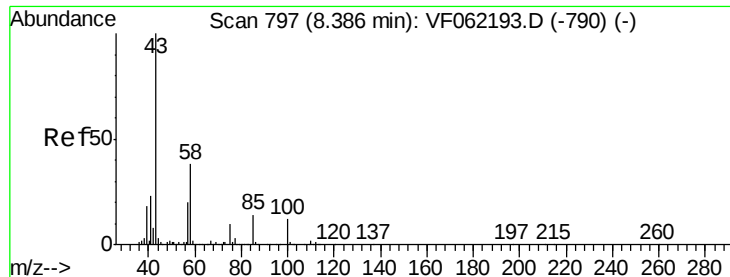
MMDadoda
4/19/2019 10:52:28 AM



#50
Toluene-d8
Concen: 49.657 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	715337		
100	68.3	56.2	84.2	





#51

4-Methyl-2-Pentanone

Concen: 96.830 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleID :

VF0418SBS01

Tot Ion: 43 Resp: 278804

Ion Ratio Lower Upper

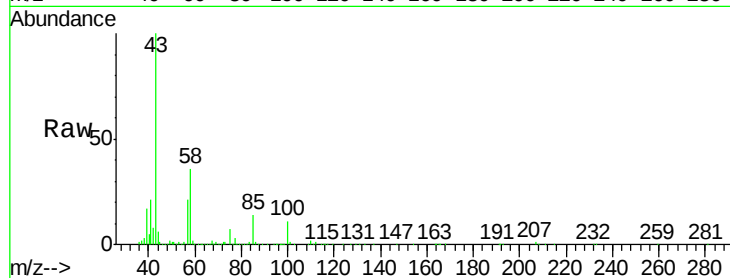
43 100

58 36.6 29.3 43.9

Manual Integrations
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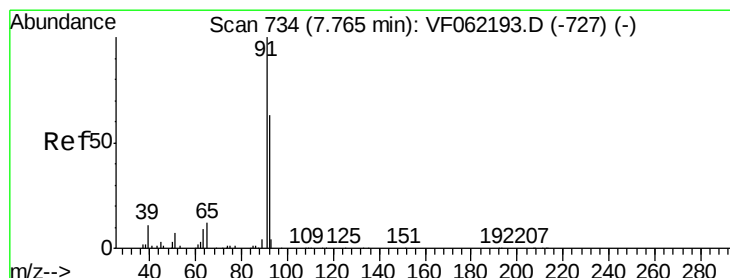
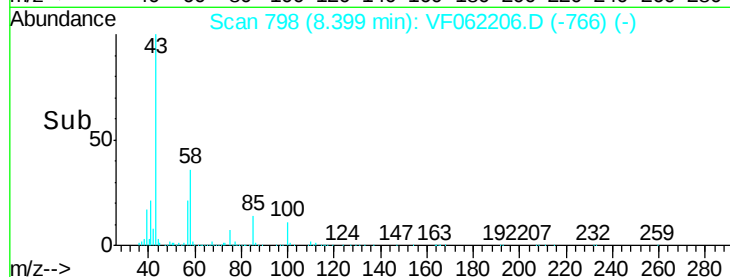
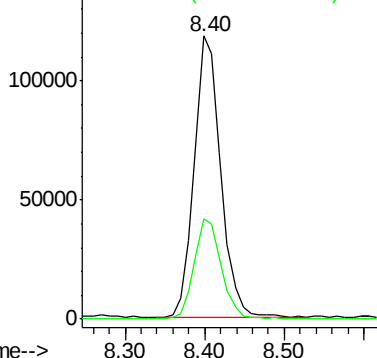
MMDadoda

4/19/2019 10:52:28 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.362 ug/l

RT: 7.78 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF062206.D

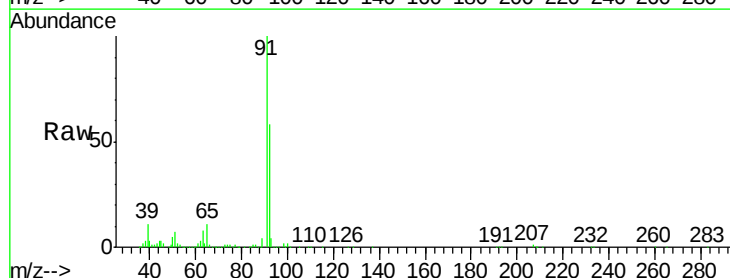
Acq: 18 Apr 2019 15:45

Tgt Ion: 92 Resp: 208808

Ion Ratio Lower Upper

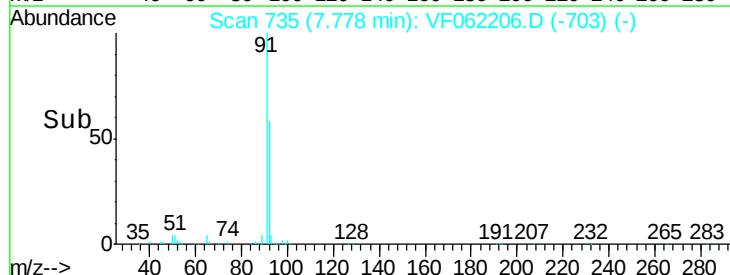
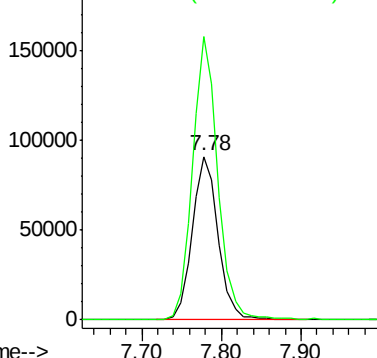
92 100

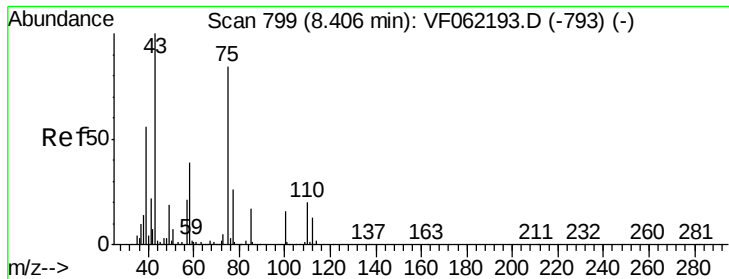
91 168.1 130.1 195.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





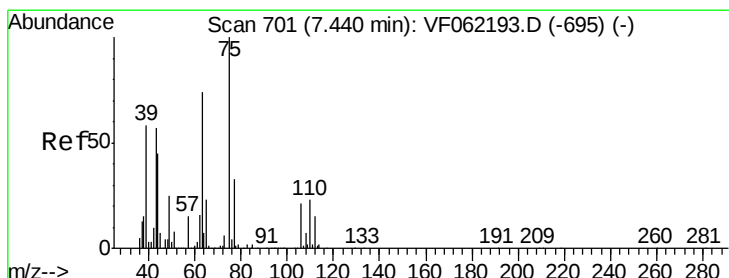
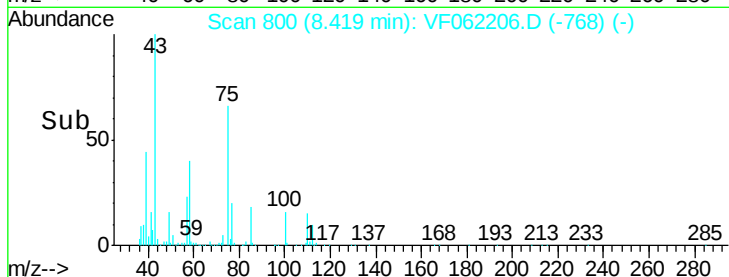
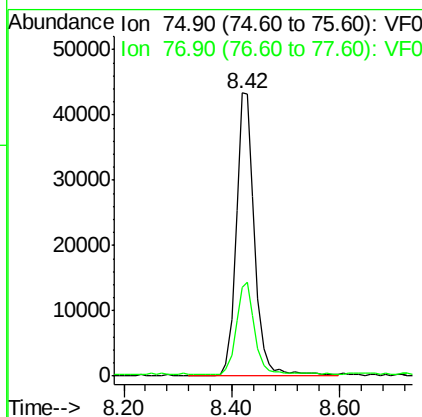
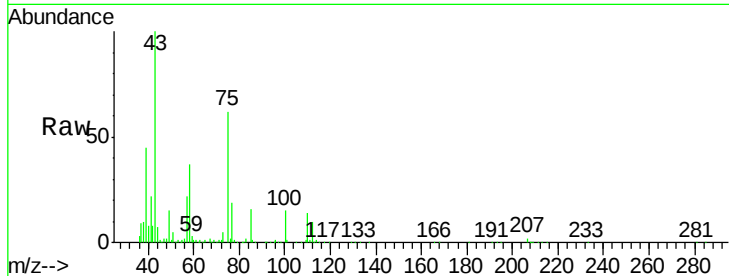
#53
t-1,3-Dichloropropene
Concen: 20.062 ug/l
RT: 8.42 min Scan# 800
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion: 75 Resp: 101956
Ion Ratio Lower Upper
75 100
77 30.8 24.6 36.8

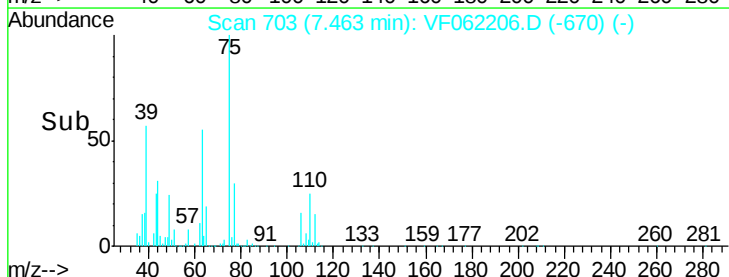
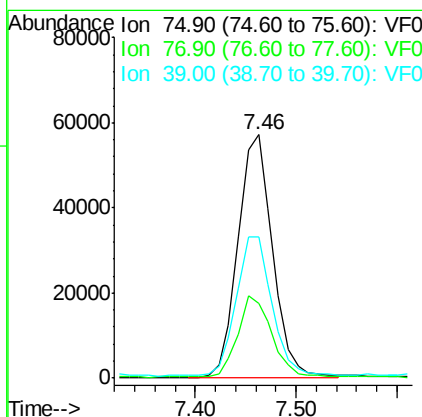
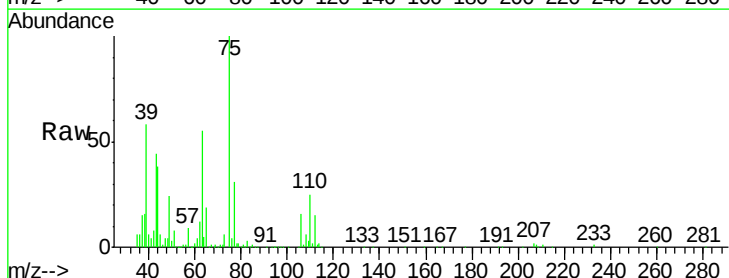
Manual Integrations
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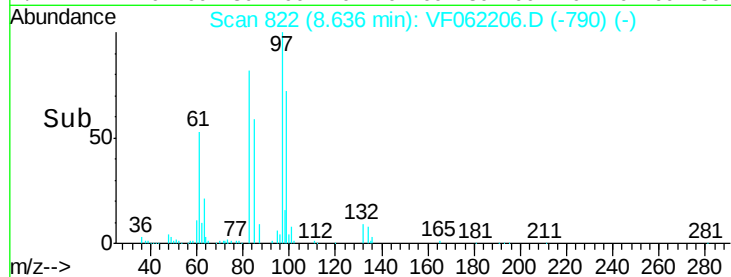
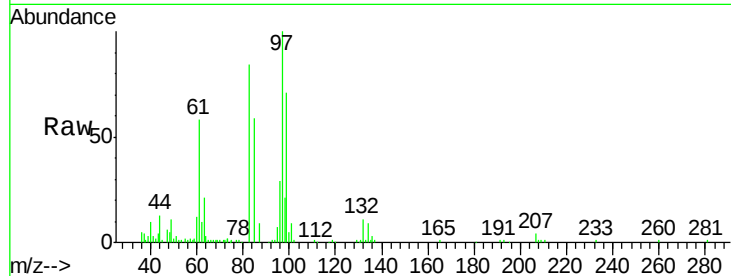
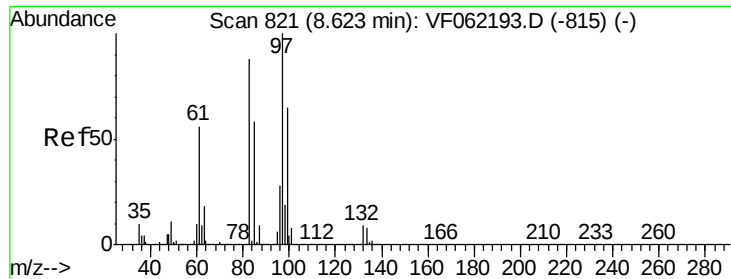
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#54
cis-1,3-Dichloropropene
Concen: 19.989 ug/l
RT: 7.46 min Scan# 703
Delta R.T. 0.02 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion: 75 Resp: 137411
Ion Ratio Lower Upper
75 100
77 30.2 26.4 39.6
39 57.0 46.7 70.1





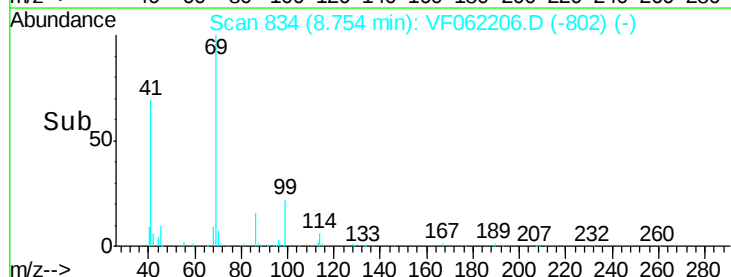
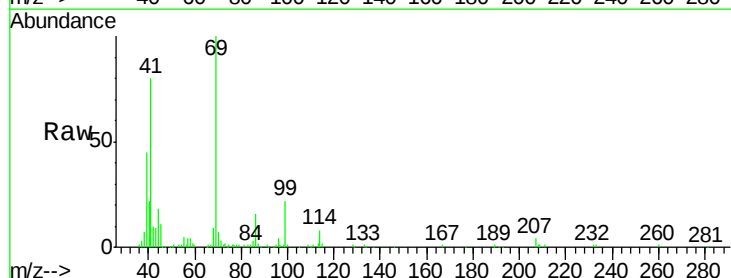
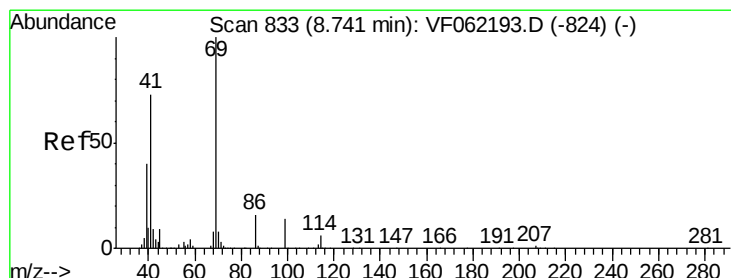
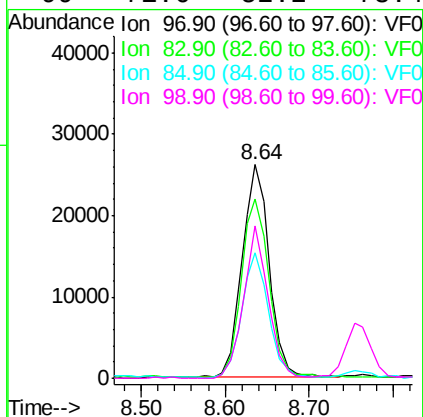
#55
1,1,2-Trichloroethane
Concen: 19.558 ug/l
RT: 8.64 min Scan# 822
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		59088		
83	83.6	70.2	105.2		
85	58.6	46.2	69.4		
99	71.6	52.2	78.4		

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

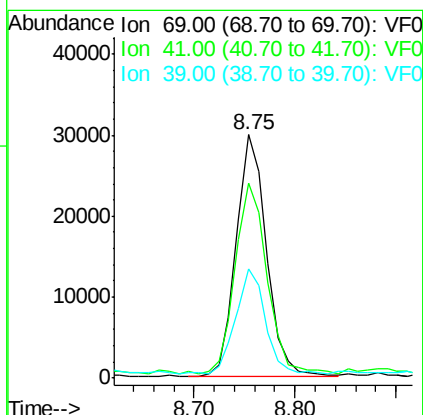
Manual Integrations
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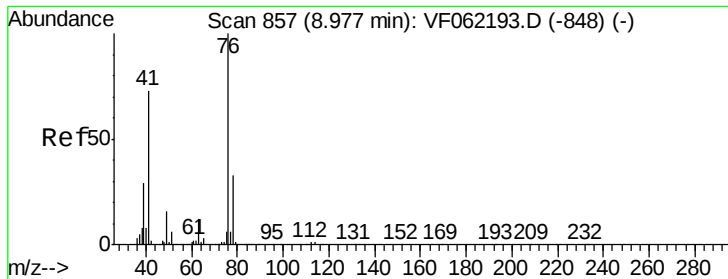
MMDadoda
4/19/2019 10:52:28 AM



#56
Ethyl methacrylate
Concen: 18.131 ug/l
RT: 8.75 min Scan# 834
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		62278		
41	84.1	61.5	92.3		
39	42.4	33.3	49.9		





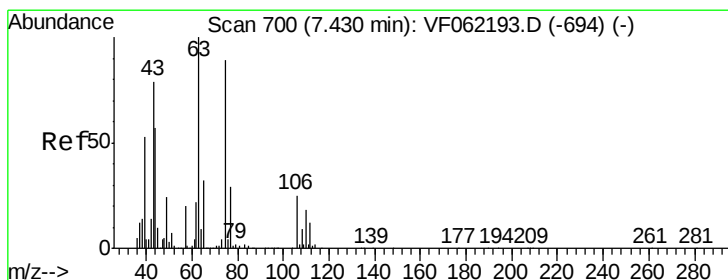
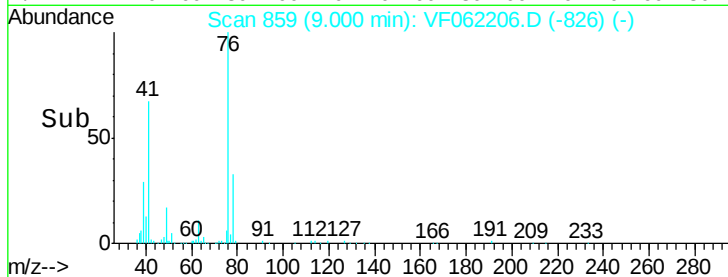
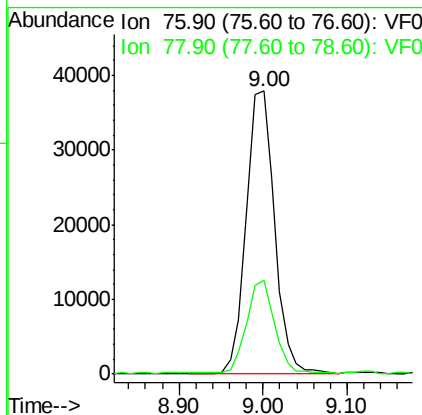
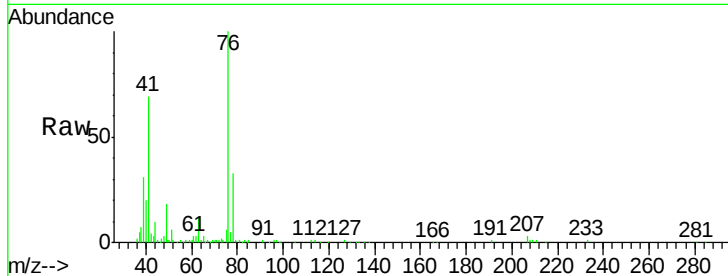
#57
 1,3-Dichloropropane
 Concen: 18.543 ug/l
 RT: 9.00 min Scan# 859
 Delta R.T. 0.02 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0418SBS01

Tot Ion: 76 Resp: 90462
 Ion Ratio Lower Upper
 76 100
 78 32.9 26.5 39.7

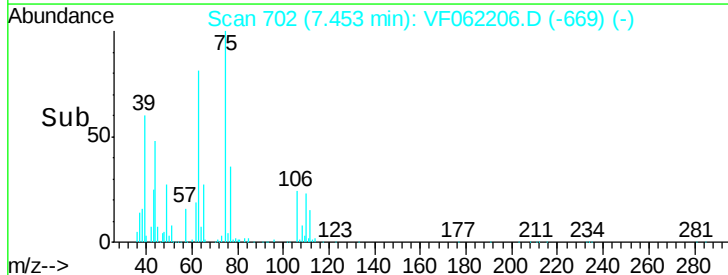
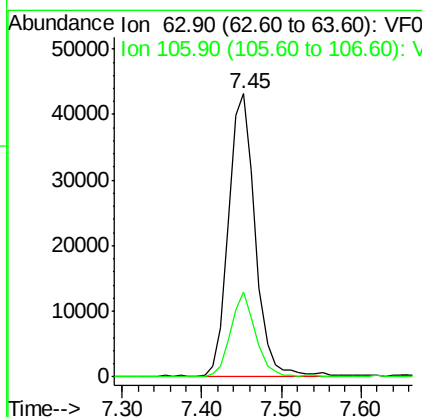
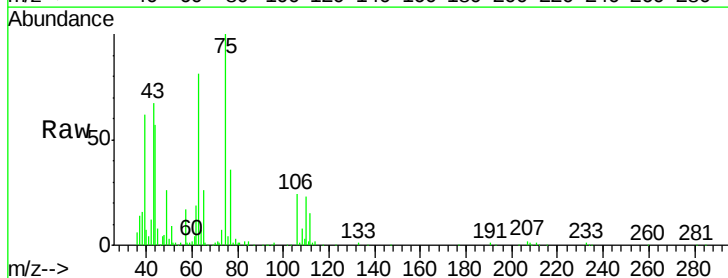
Manual Integrations
 APPROVED

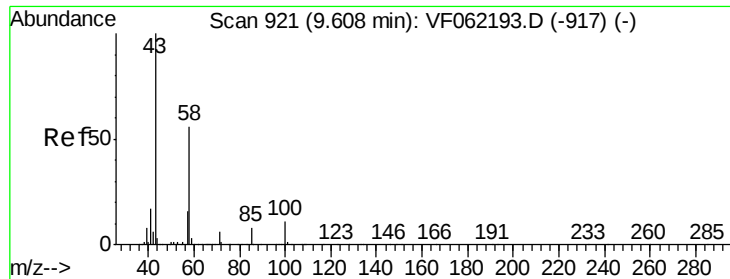
MMDadoda
 4/19/2019 10:52:28 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 100.646 ug/l
 RT: 7.45 min Scan# 702
 Delta R.T. 0.02 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Tgt Ion: 63 Resp: 100372
 Ion Ratio Lower Upper
 63 100
 106 28.5 21.4 32.0





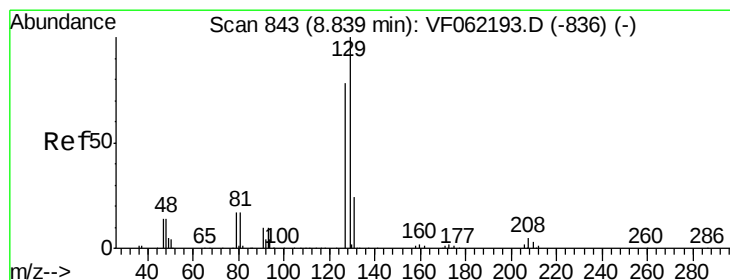
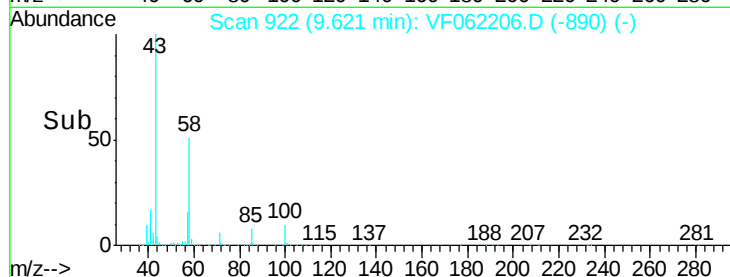
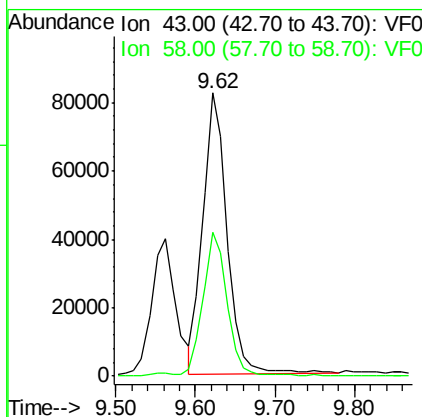
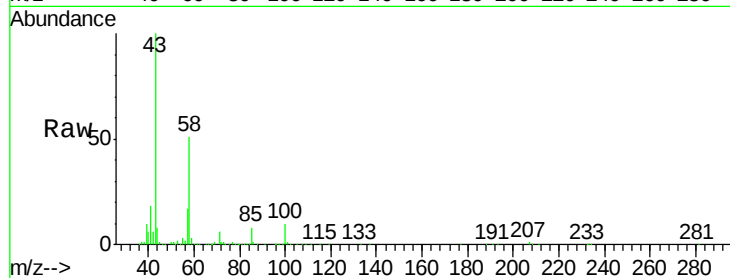
#59
2-Hexanone
Concen: 95.913 ug/l
RT: 9.62 min Scan# 922
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion: 43 Resp: 172064
Ion Ratio Lower Upper
43 100
58 51.1 24.6 74.0

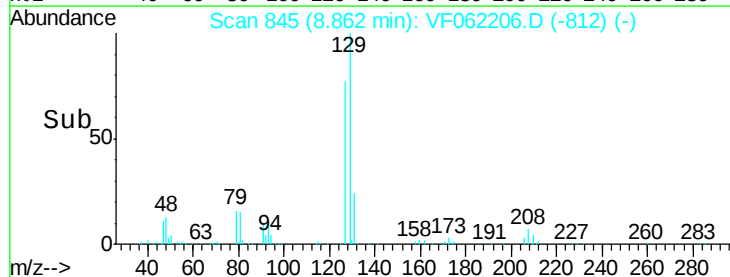
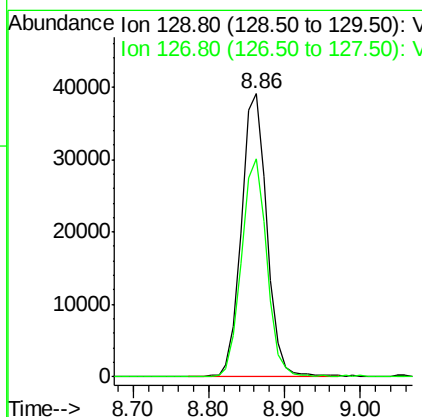
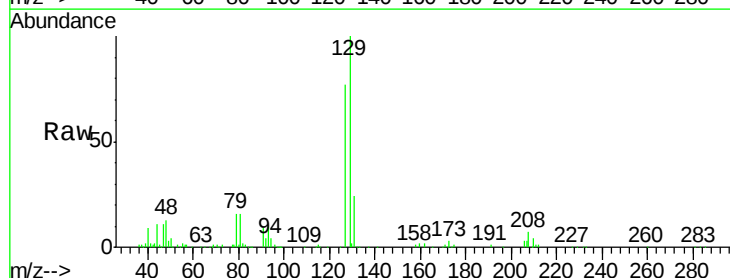
Manual Integrations
APPROVED

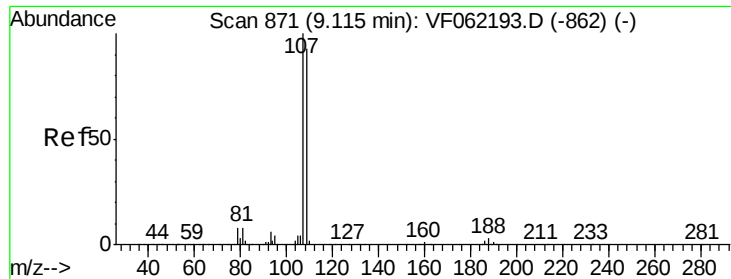
MMDadoda
4/19/2019 10:52:28 AM



#60
Dibromochloromethane
Concen: 20.249 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.02 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion: 129 Resp: 90982
Ion Ratio Lower Upper
129 100
127 76.8 39.0 117.0





#61

1,2-Dibromoethane

Concen: 19.571 ug/l

RT: 9.13 min Scan# 872

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion:107 Resp: 66613

Ion Ratio Lower Upper

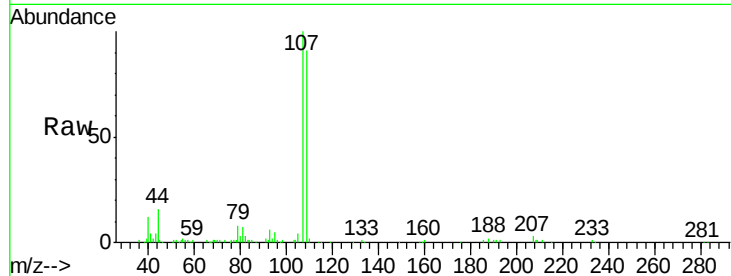
107 100

109 93.7 74.3 111.5

Manual Integrations
APPROVED

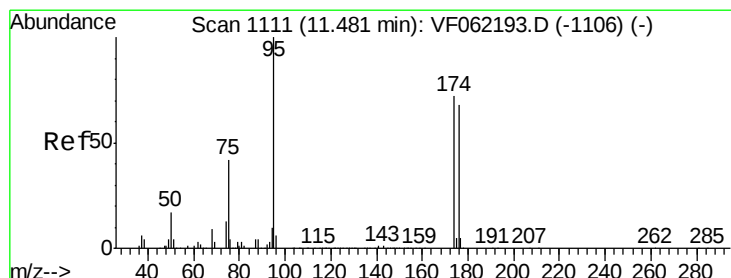
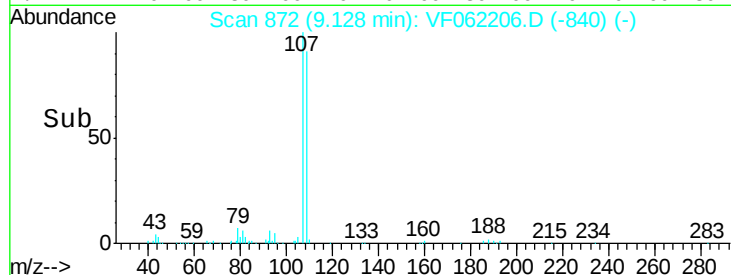
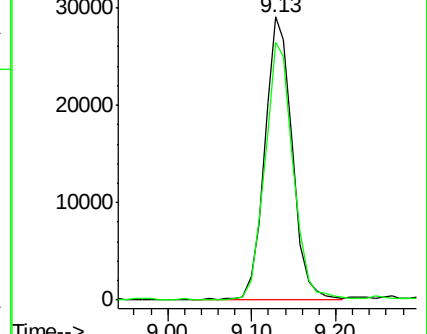
MMDadoda

4/19/2019 10:52:28 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 49.129 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

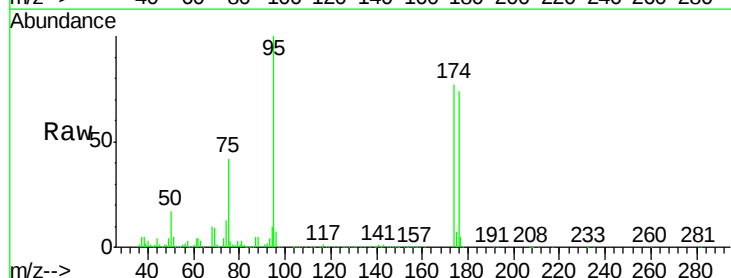
Tgt Ion: 95 Resp: 272260

Ion Ratio Lower Upper

95 100

174 82.4 0.0 159.4

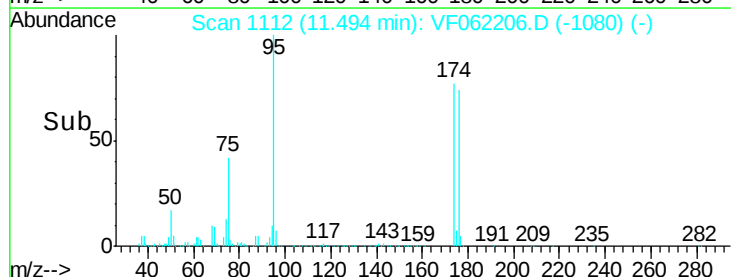
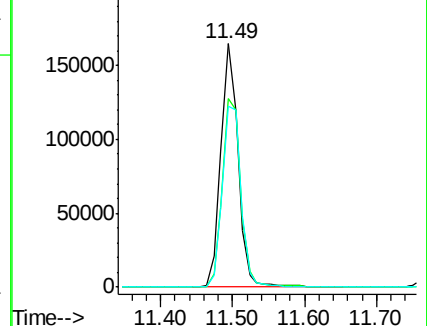
176 80.6 0.0 155.4

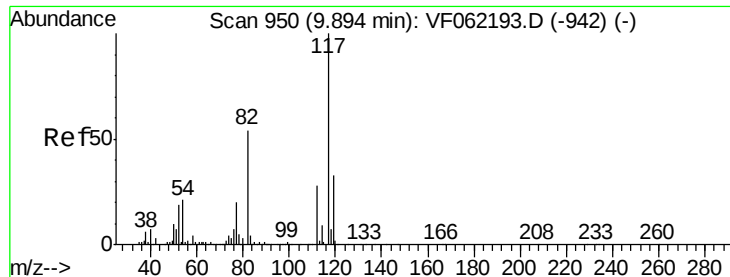


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





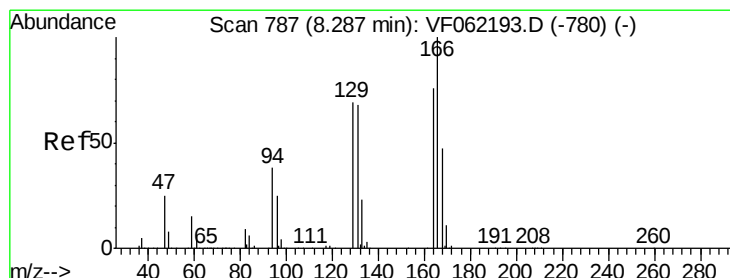
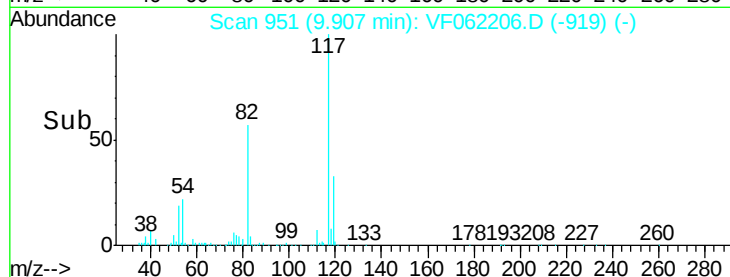
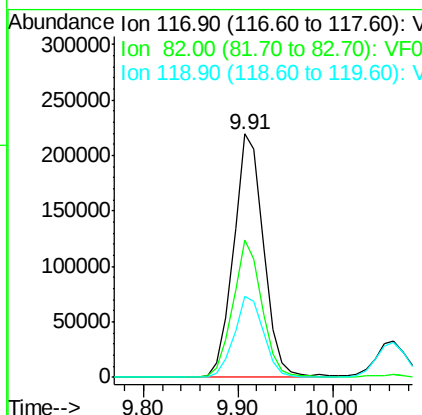
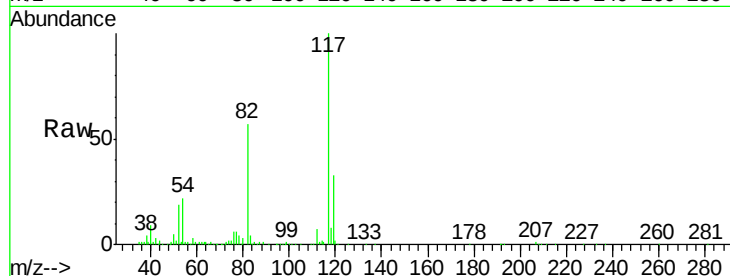
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	43.2	64.8
119	33.0	26.2	39.4

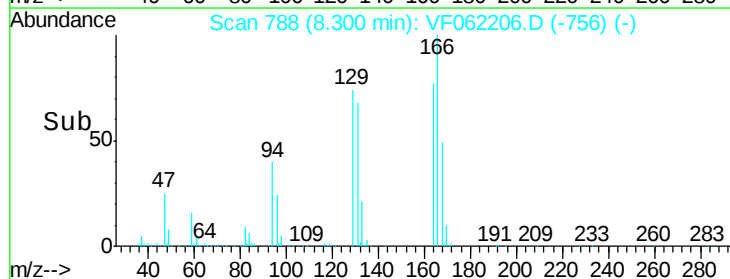
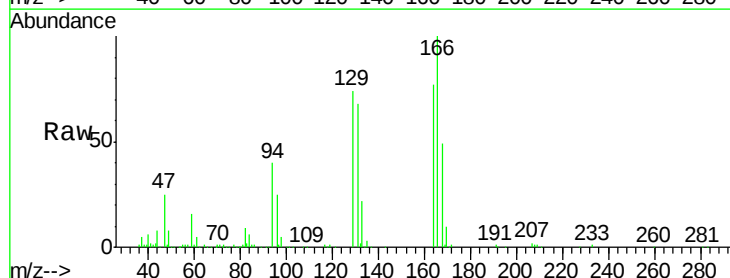
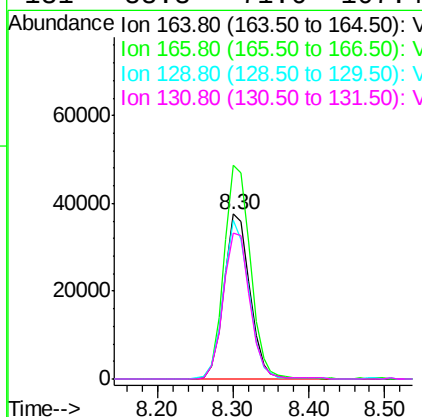
Manual Integrations
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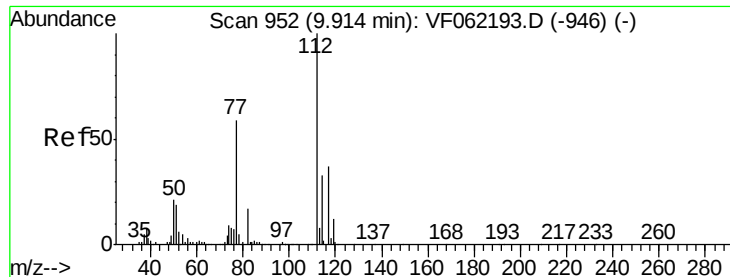
MMDadoda
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#64
Tetrachloroethene
Concen: 20.484 ug/l
RT: 8.30 min Scan# 788
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.5	104.7	157.1
129	96.3	72.6	109.0
131	88.3	71.6	107.4





#65

Chlorobenzene

Concen: 20.667 ug/l

RT: 9.94 min Scan# 954

Delta R.T. 0.02 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion:112 Resp: 211995

Ion Ratio Lower Upper

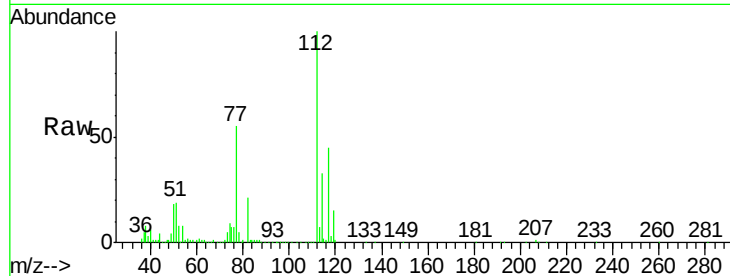
112 100

114 32.7 26.1 39.1

Manual Integrations
APPROVED

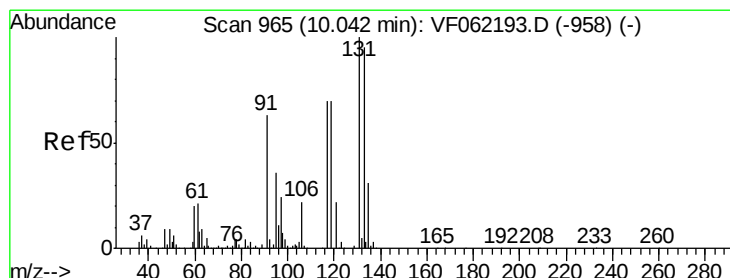
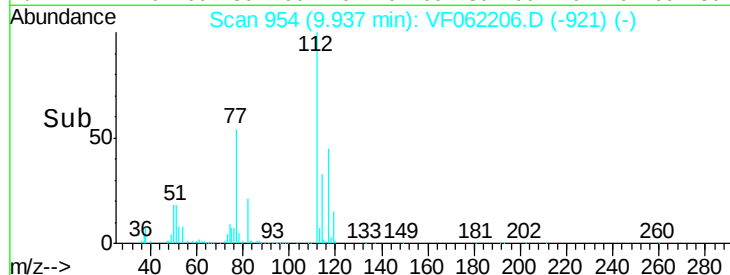
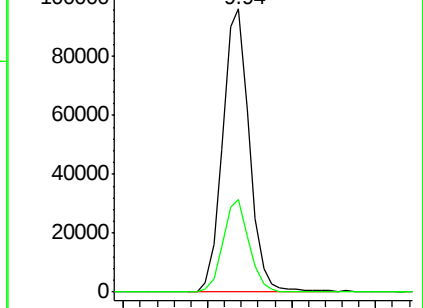
MMDadoda

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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: 20.720 ug/l

RT: 10.06 min Scan# 967

Delta R.T. 0.02 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

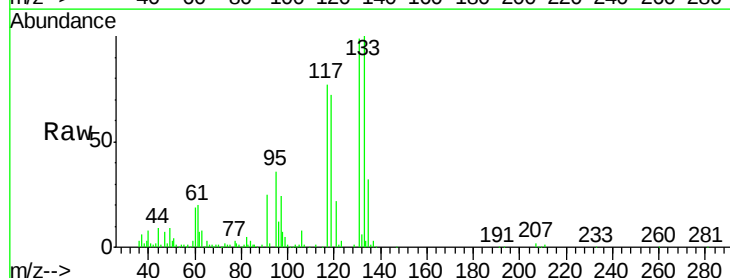
Tgt Ion:131 Resp: 99534

Ion Ratio Lower Upper

131 100

133 95.9 47.7 143.1

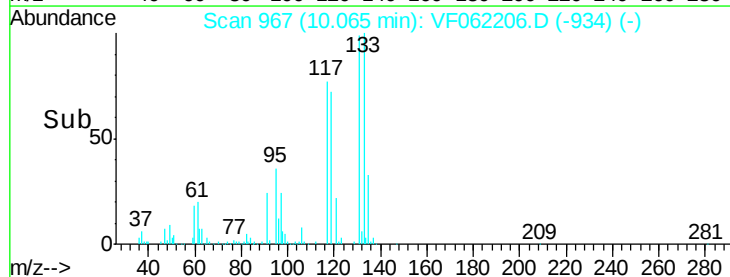
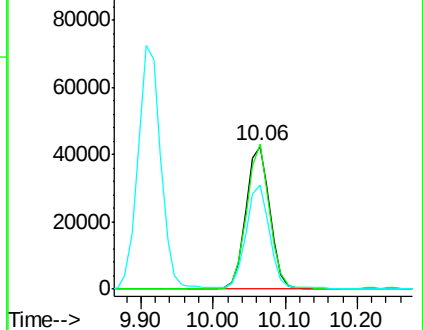
119 69.2 34.6 103.9

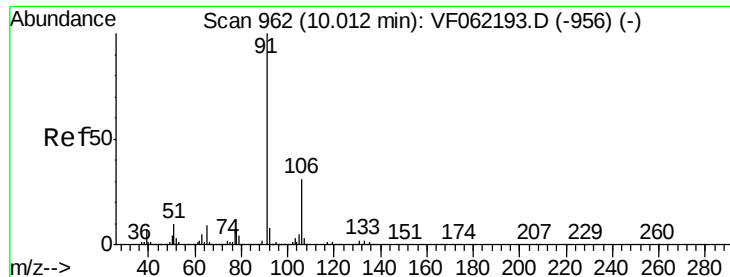


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 19.951 ug/l

RT: 10.04 min Scan# 964

Delta R.T. 0.02 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion: 91 Resp: 372139

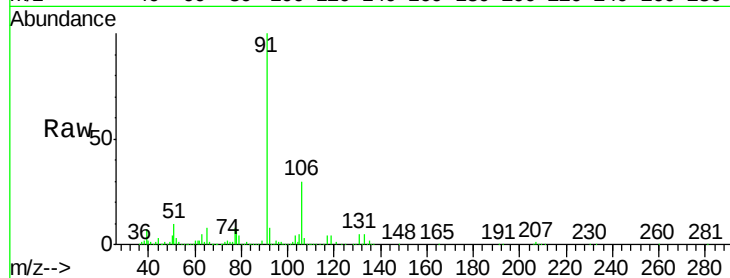
Ion Ratio Lower Upper

91 100

106 30.5 24.9 37.3

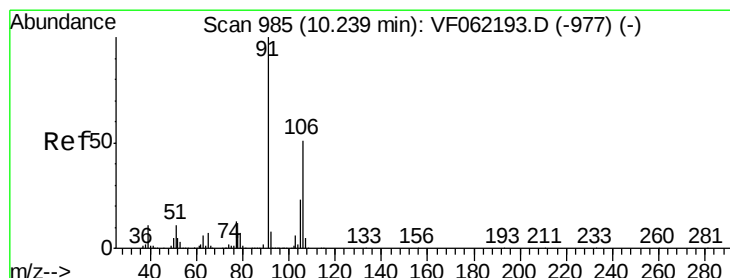
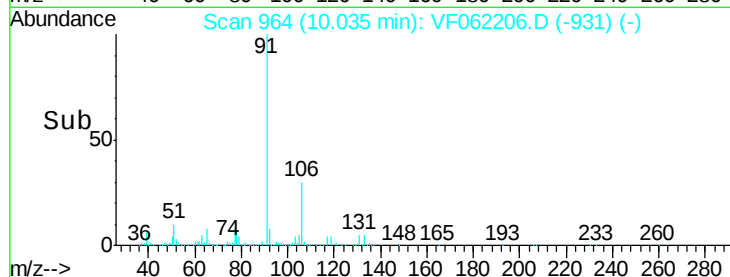
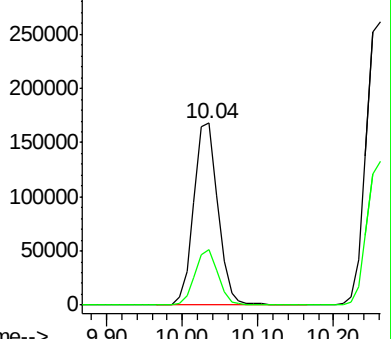
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 40.468 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.02 min

Lab File: VF062206.D

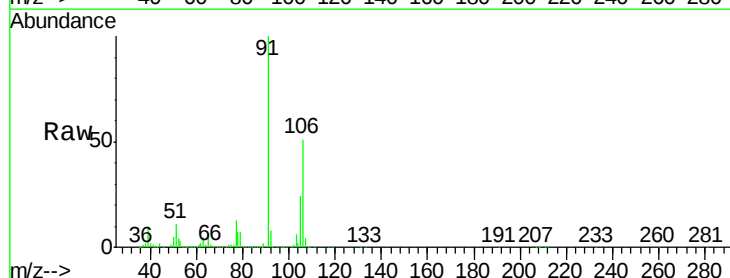
Acq: 18 Apr 2019 15:45

Tgt Ion: 106 Resp: 277873

Ion Ratio Lower Upper

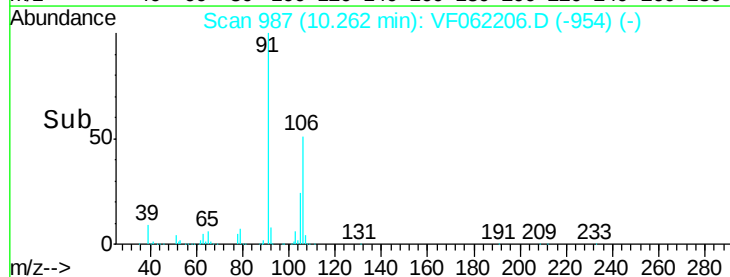
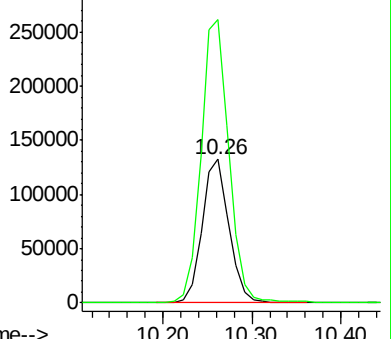
106 100

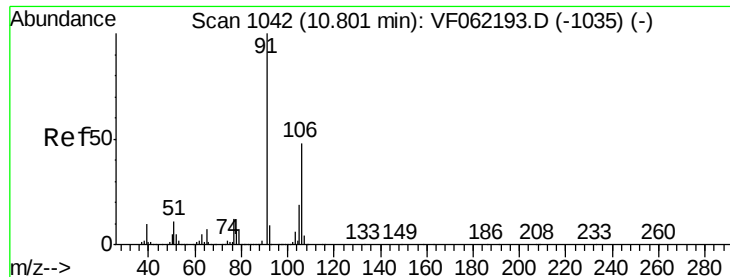
91 204.5 159.1 238.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





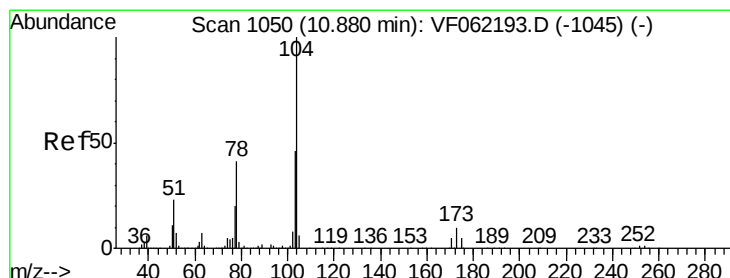
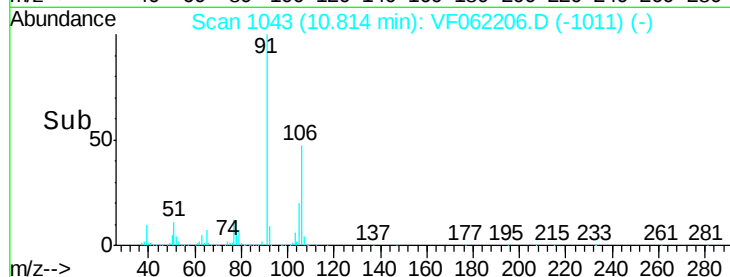
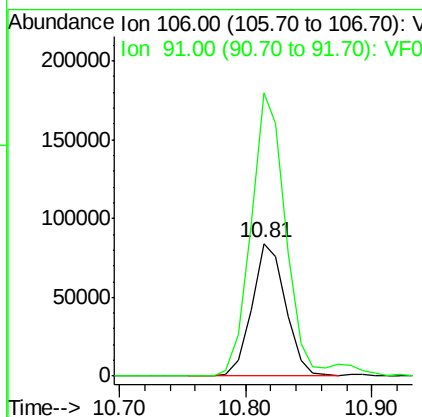
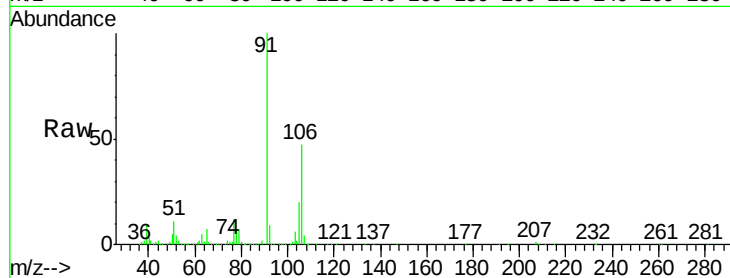
#69
o-Xylene
Concen: 20.444 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		155857		
91	218.0	107.5	322.4		

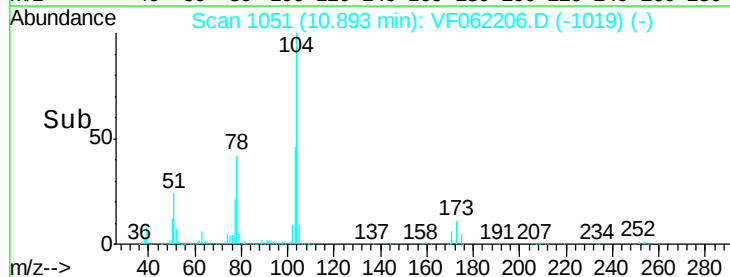
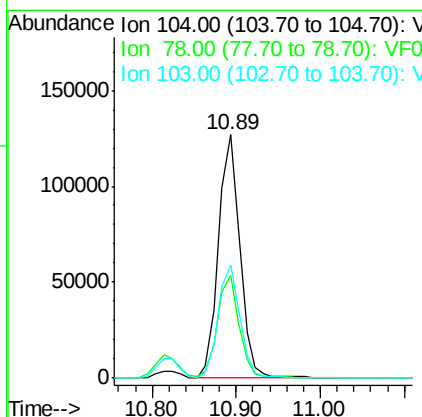
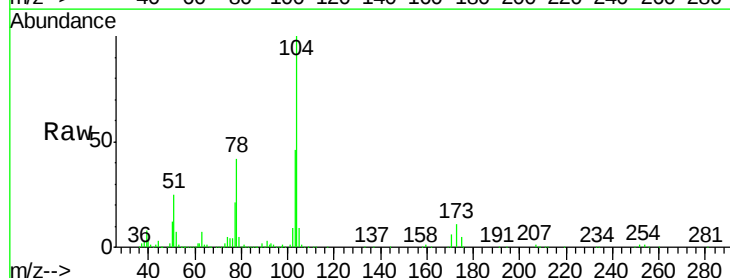
Manual Integrations
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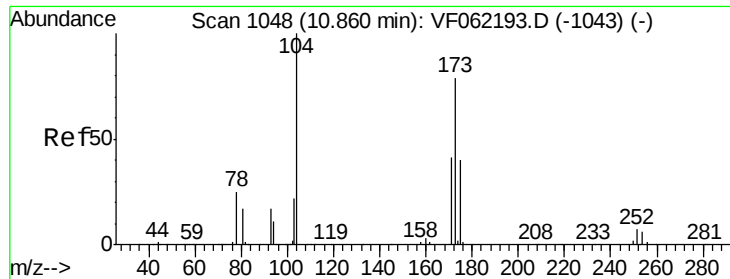
MMDadoda
4/19/2019 10:52:28 AM



#70
Styrene
Concen: 21.030 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		226252		
78	42.7	34.5	51.7		
103	47.0	37.2	55.8		





#71

Bromoform

Concen: 21.363 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.02 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

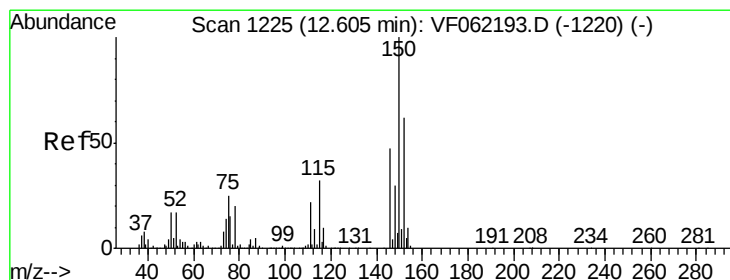
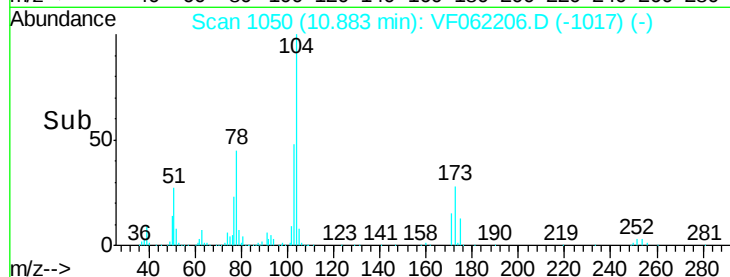
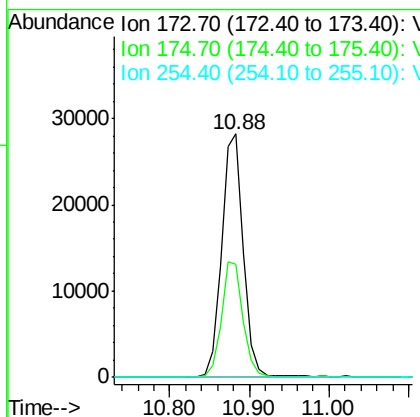
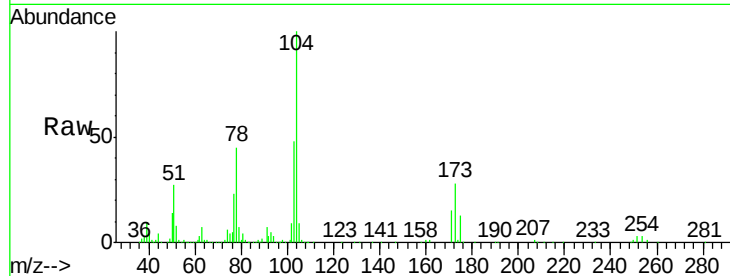
ClientSampleId :

VF0418SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.1	24.5	73.5
254	0.0	0.1	0.1

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

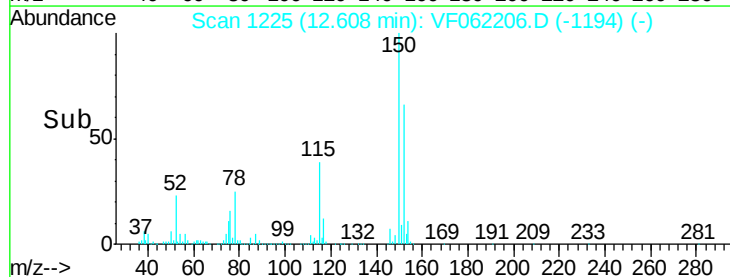
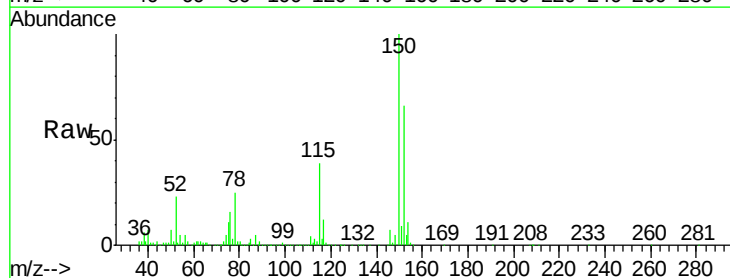
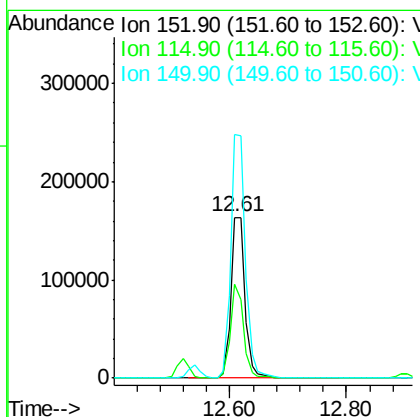
RT: 12.61 min Scan# 1225

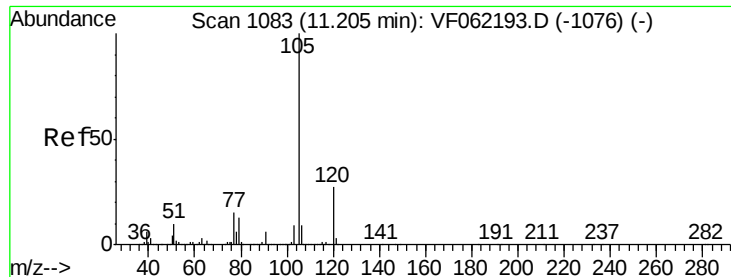
Delta R.T. 0.00 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	27.8	83.3
150	158.0	0.0	341.8





#73

Isopropylbenzene

Concen: 19.830 ug/l

RT: 11.22 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion:105 Resp: 464638

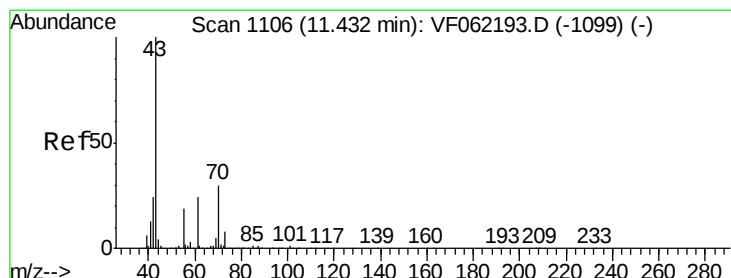
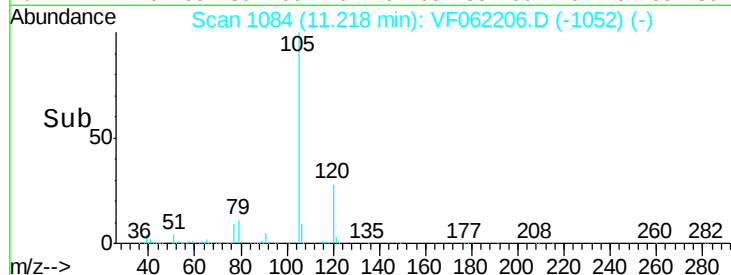
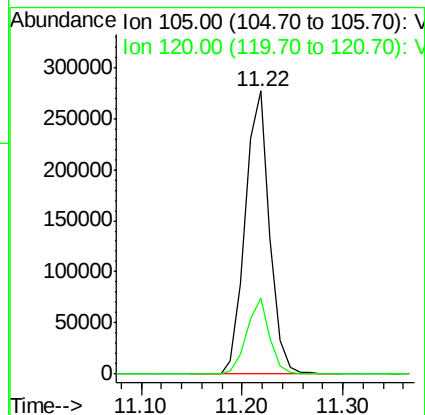
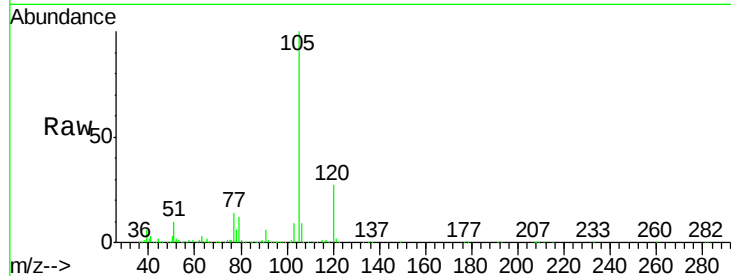
Ion Ratio Lower Upper

105 100

120 25.3 13.0 38.9

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#74

N-ethyl acetate

Concen: 19.362 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion: 43 Resp: 115123

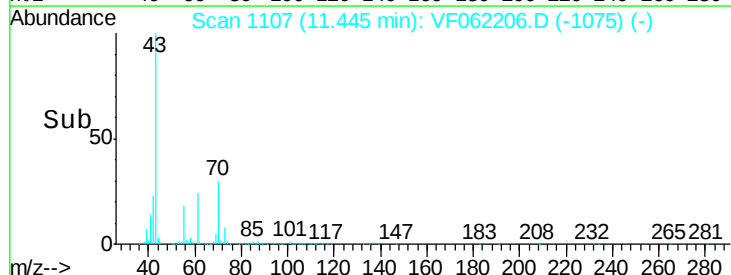
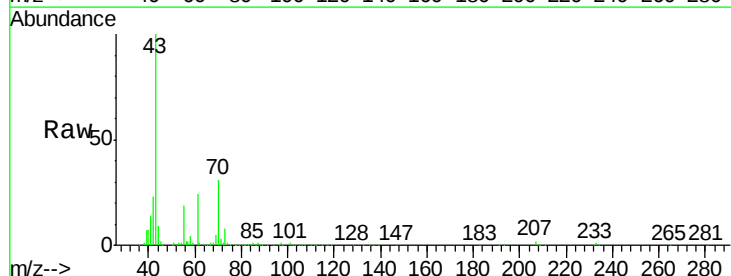
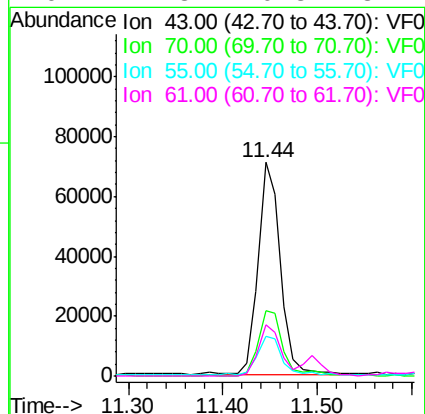
Ion Ratio Lower Upper

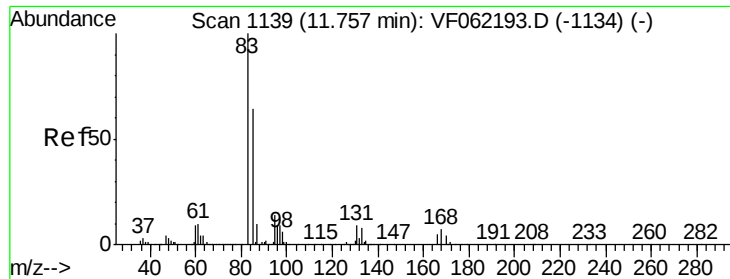
43 100

70 35.7 27.0 40.4

55 20.4 15.7 23.5

61 24.3 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 19.398 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

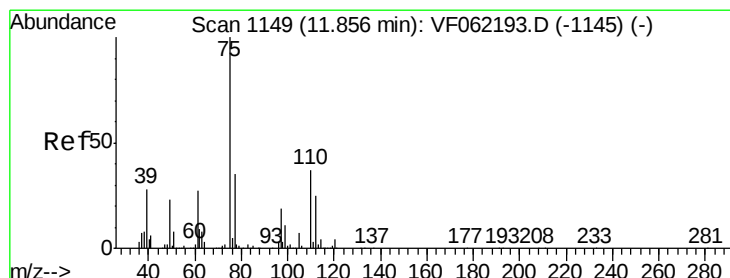
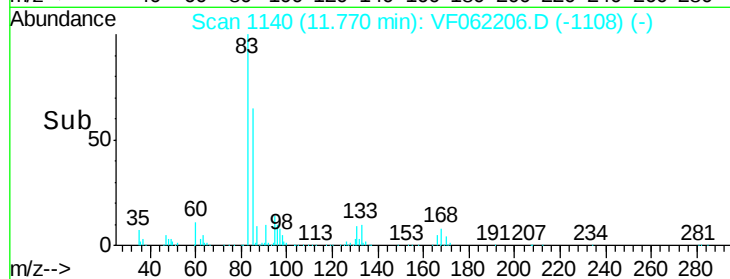
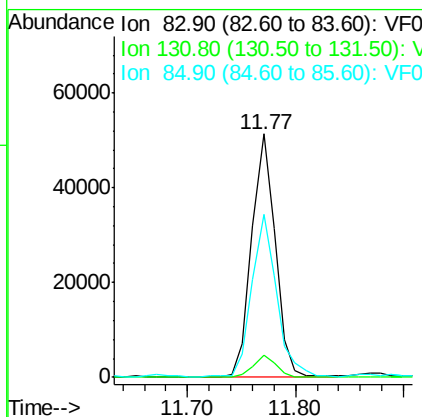
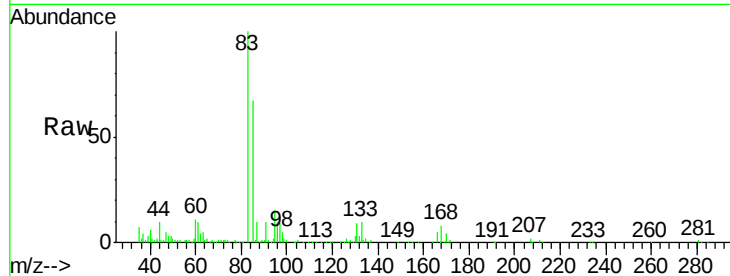
ClientSampleId :

VF0418SBS01

Tot Ion:	83	Resp:	78164
Ion Ratio	Lower	Upper	
83	100		
131	9.0	4.5	13.5
85	70.6	34.7	104.1

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.417 ug/l m

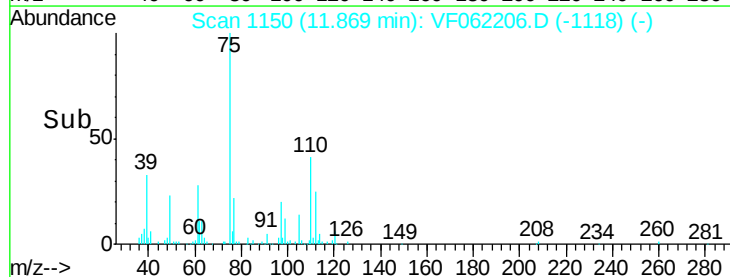
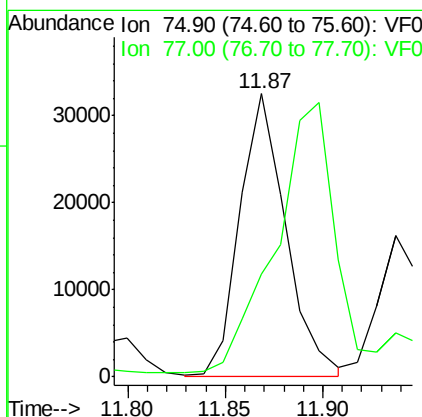
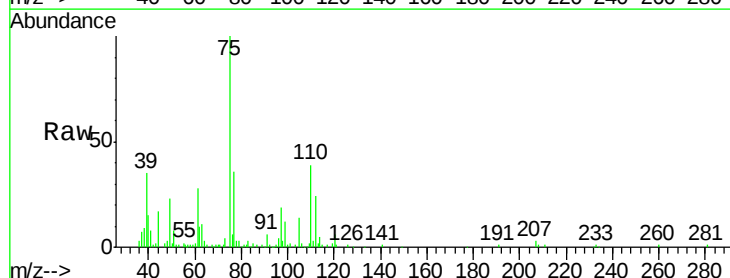
RT: 11.87 min Scan# 1150

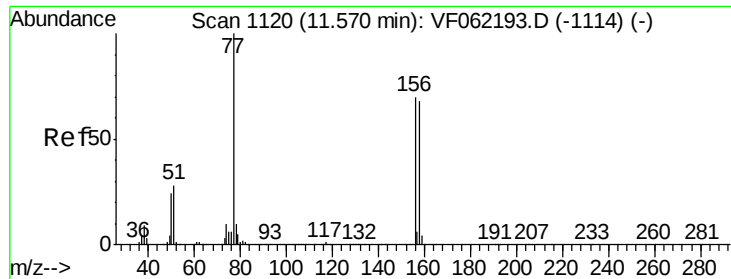
Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	75	Resp:	53830
Ion Ratio	Lower	Upper	
75	100		
77	12.6	7.4	22.2





#77

Bromobenzene

Concen: 20.147 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

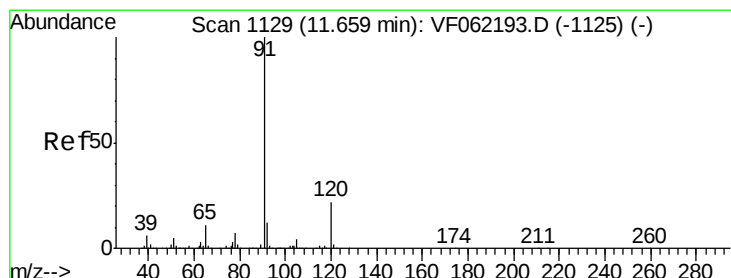
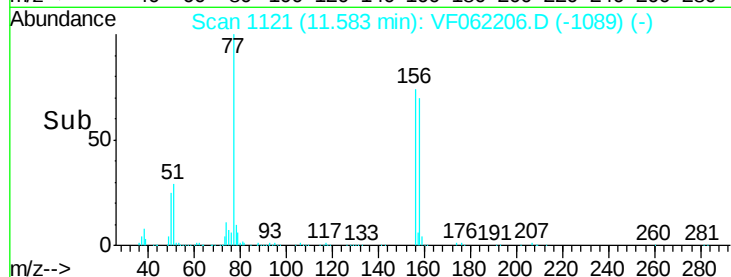
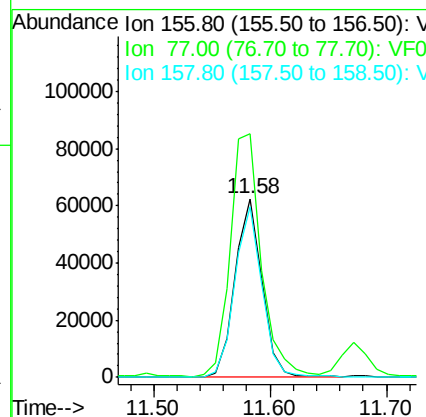
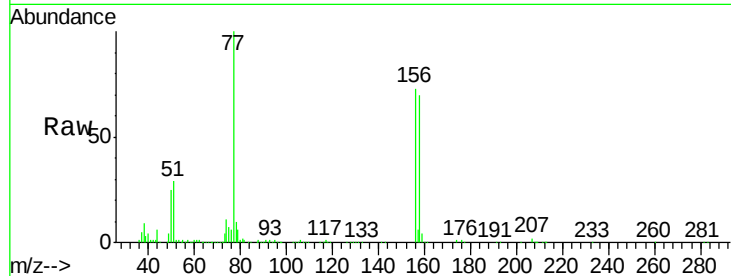
ClientSampleId :

VF0418SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	154.5	80.9	242.7
158	97.1	49.8	149.4

Manual Integrations
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#78

n-propylbenzene

Concen: 19.676 ug/l

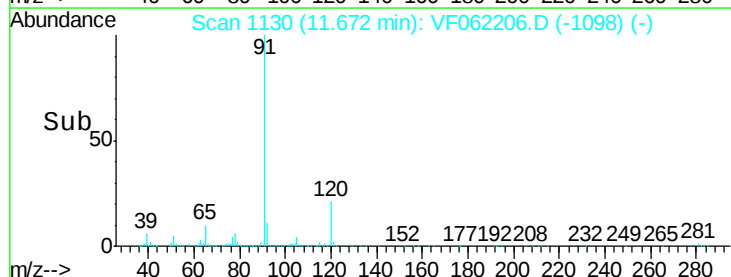
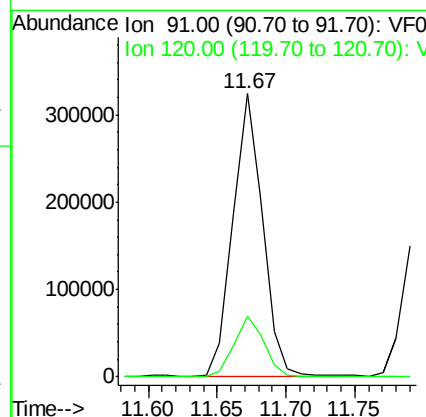
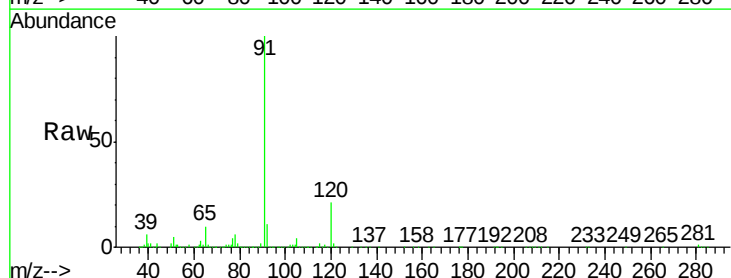
RT: 11.67 min Scan# 1130

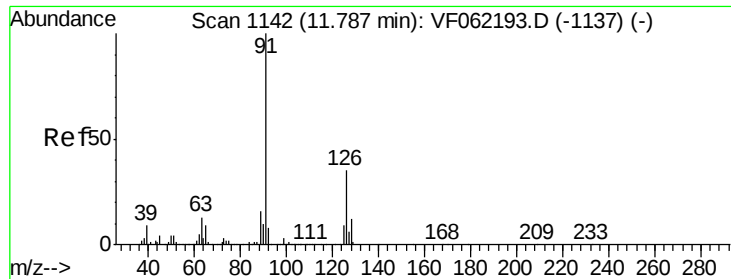
Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.2	33.6





#79

2-Chlorotoluene

Concen: 19.669 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion: 91 Resp: 294914

Ion Ratio Lower Upper

91 100

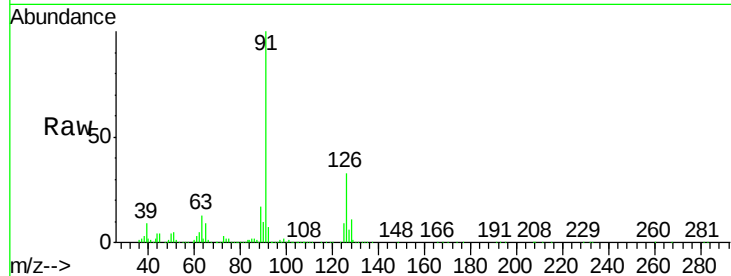
126 33.6 16.9 50.6

Manual Integrations

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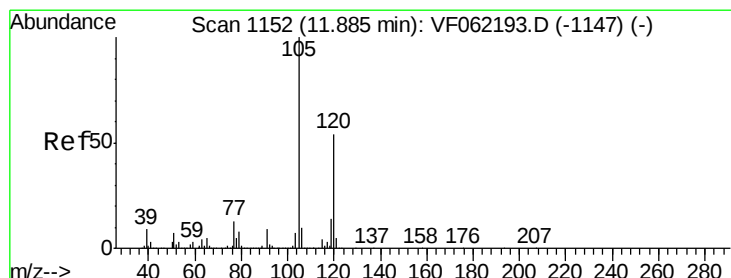
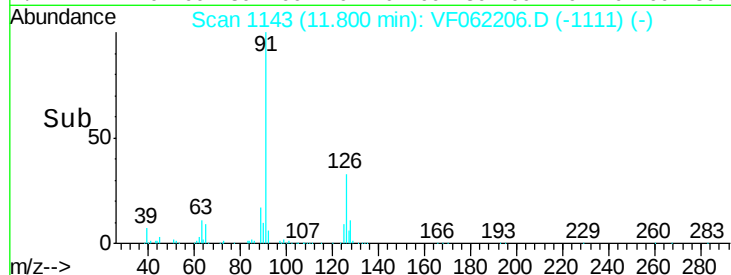
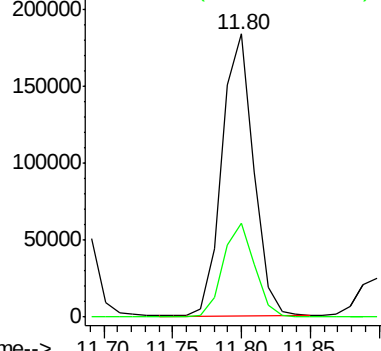
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 20.047 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062206.D

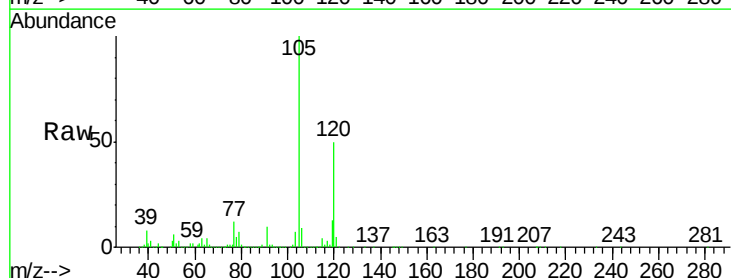
Acq: 18 Apr 2019 15:45

Tgt Ion: 105 Resp: 391216

Ion Ratio Lower Upper

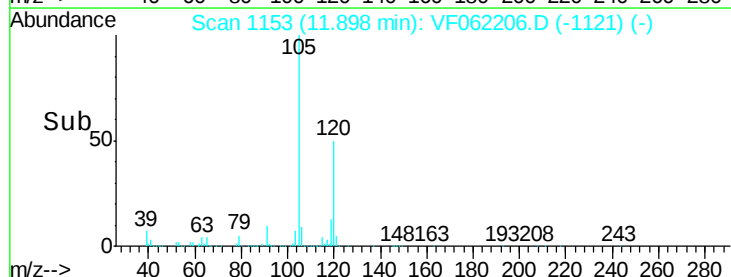
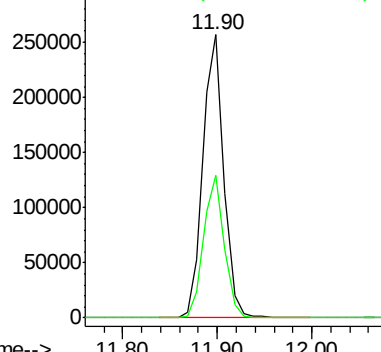
105 100

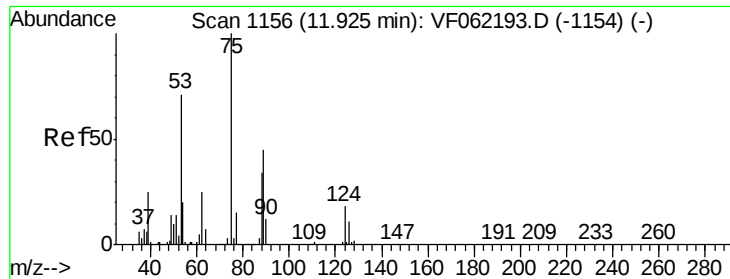
120 50.1 26.2 78.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 17.968 ug/l

RT: 11.94 min Scan# 1157

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

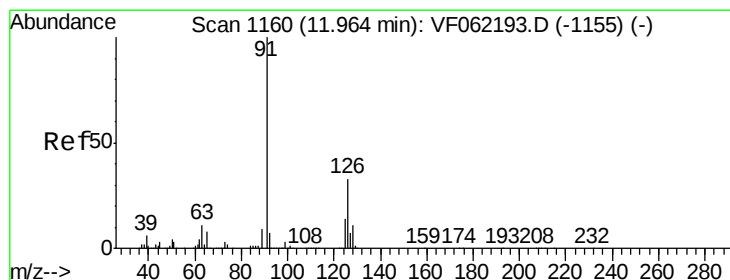
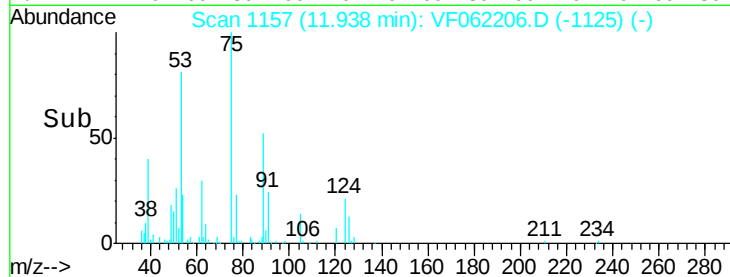
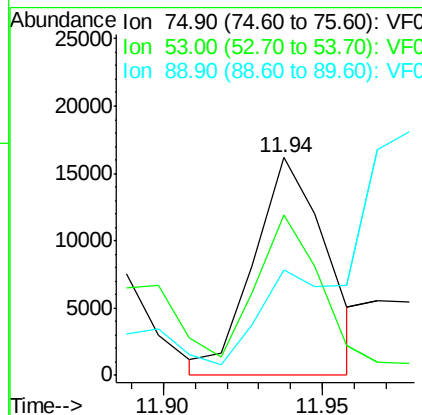
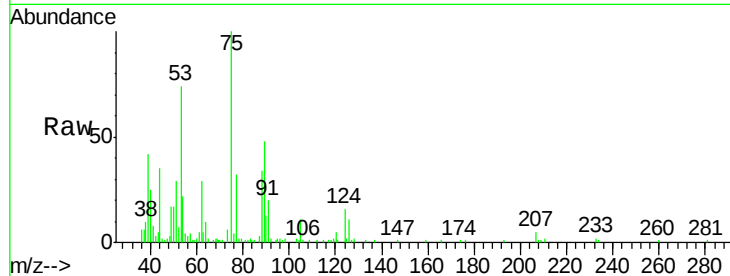
ClientSampleId :

VF0418SBS01

Tot Ion:	75	Resp:	25404
Ion Ratio	Lower	Upper	
75	100		
53	70.3	50.2	75.4
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.056 ug/l

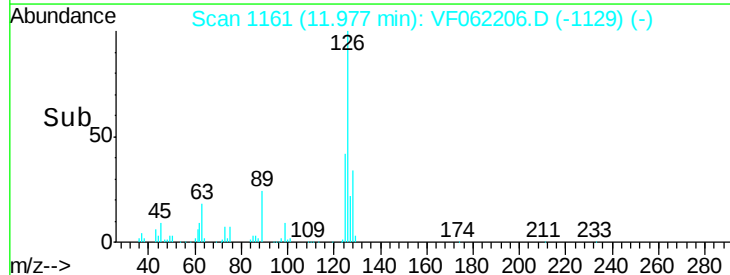
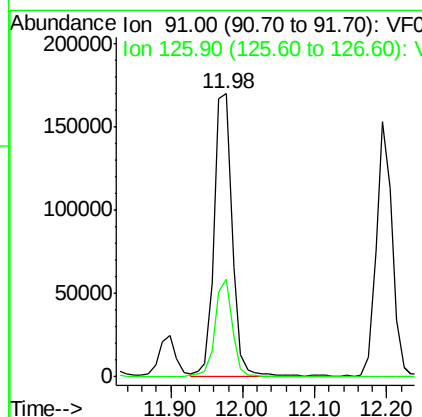
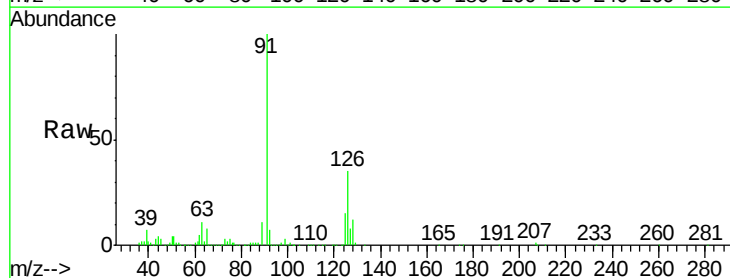
RT: 11.98 min Scan# 1161

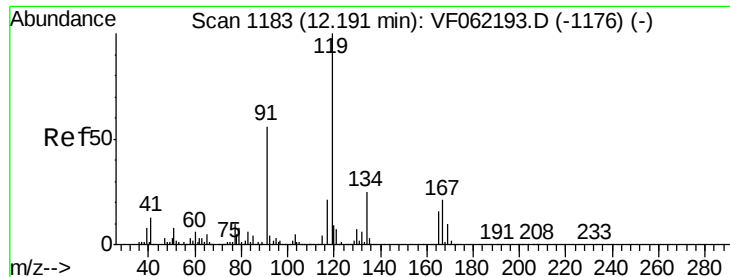
Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Tgt Ion:	91	Resp:	290609
Ion Ratio	Lower	Upper	
91	100		
126	33.7	16.9	50.6





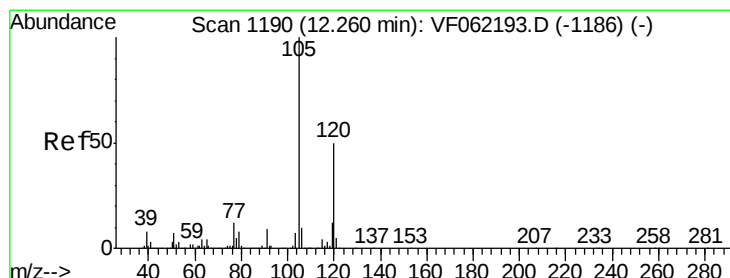
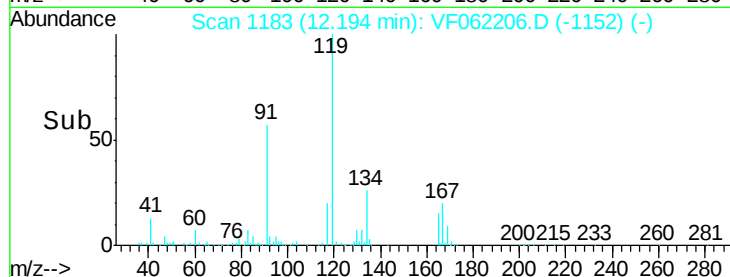
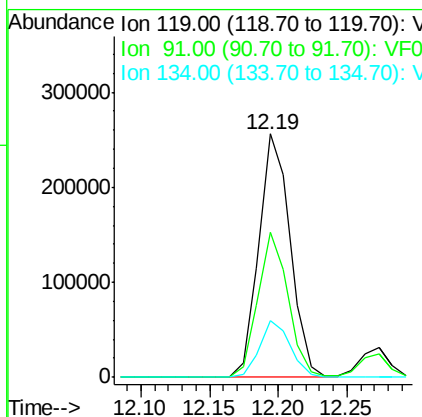
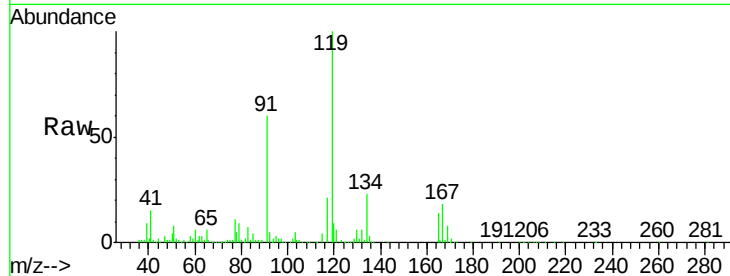
#83
tert-Butylbenzene
Concen: 20.241 ug/l
RT: 12.19 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	57.0	29.4	88.2
134	22.7	11.8	35.3

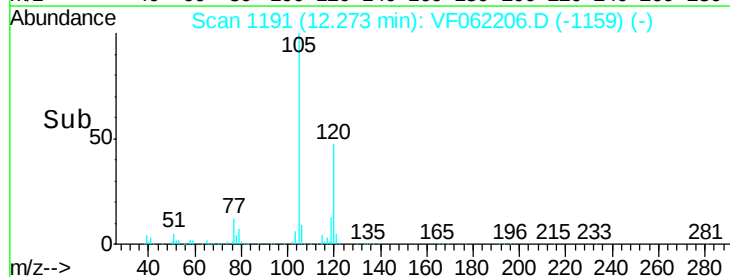
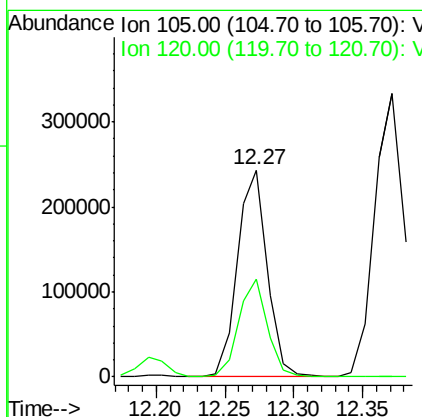
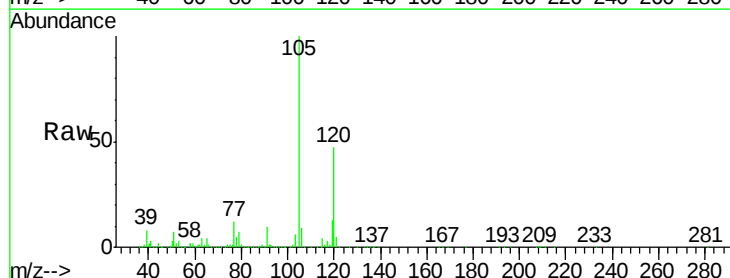
Manual Integrations
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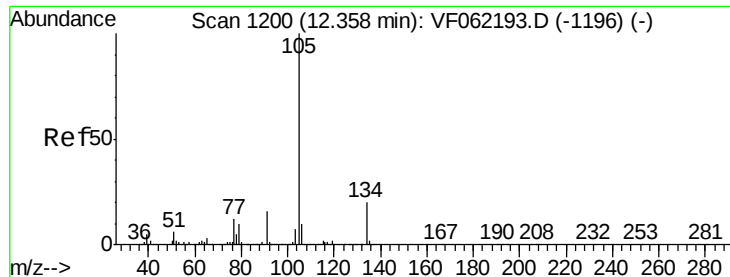
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 19.308 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.7	24.0	72.0





#85

sec-Butylbenzene

Concen: 19.244 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

ClientSampleId :

VF0418SBS01

Tot Ion:105 Resp: 504196

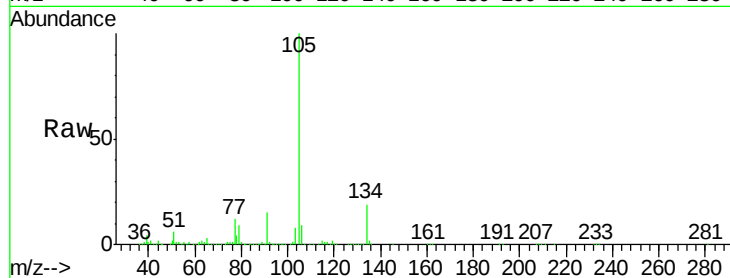
Ion Ratio Lower Upper

105 100

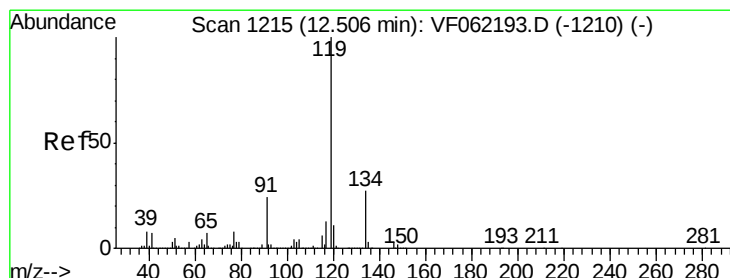
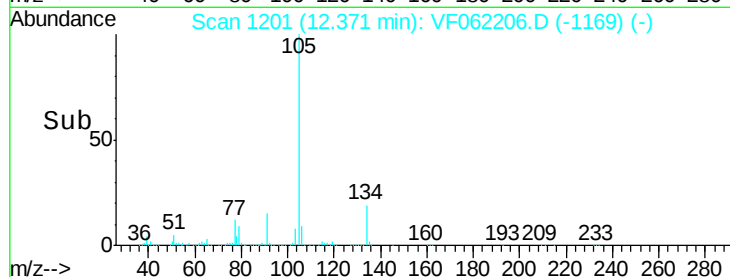
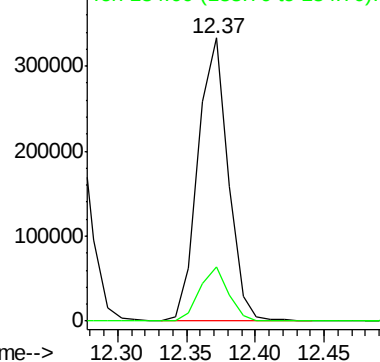
134 18.5 9.7 29.1

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 19.587 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

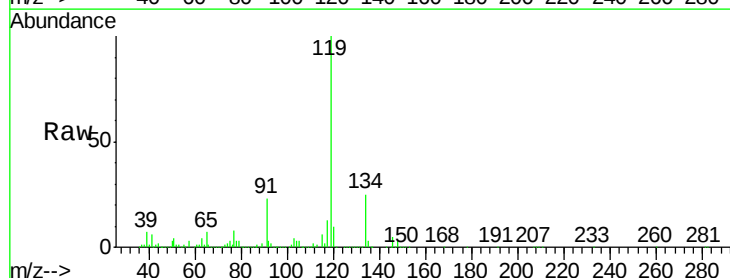
Tgt Ion:119 Resp: 435318

Ion Ratio Lower Upper

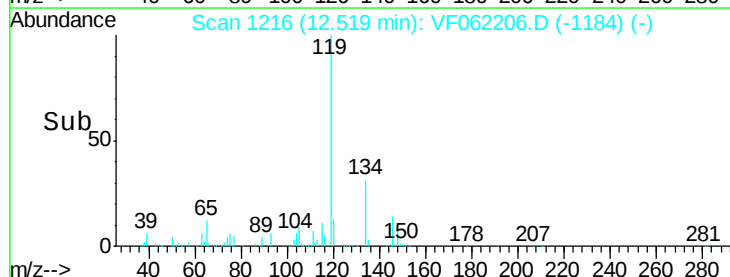
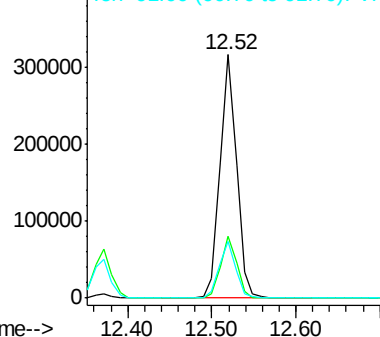
119 100

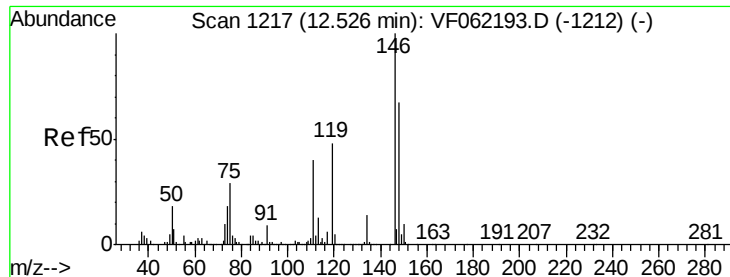
134 25.0 13.2 39.5

91 23.1 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





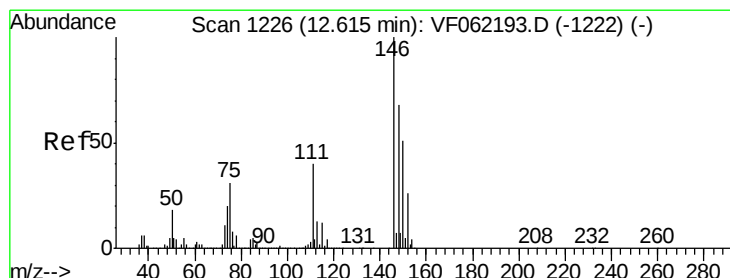
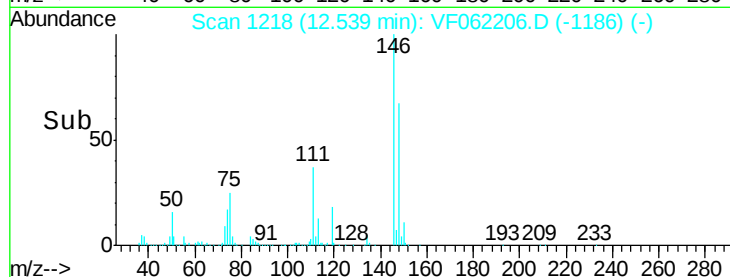
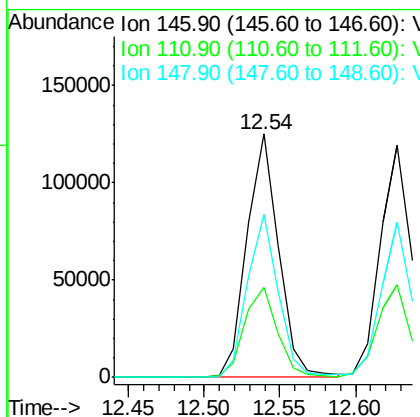
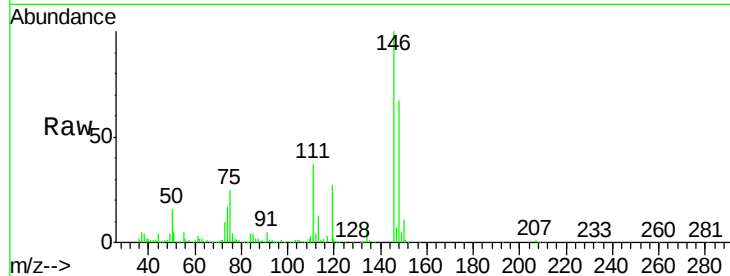
#87
 1,3-Dichlorobenzene
 Concen: 19.674 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0418SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.7	59.0
148	65.3	32.9	98.6

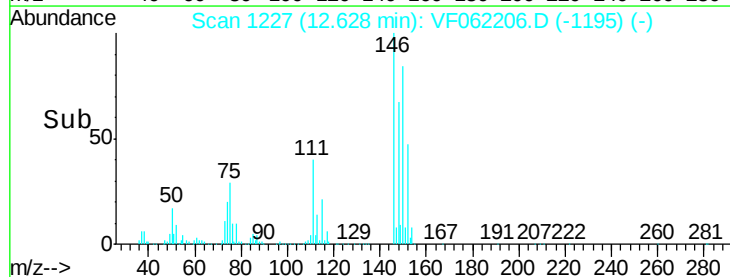
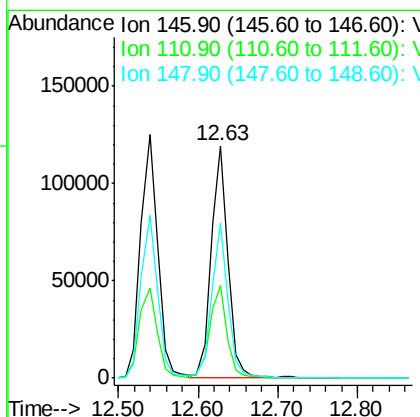
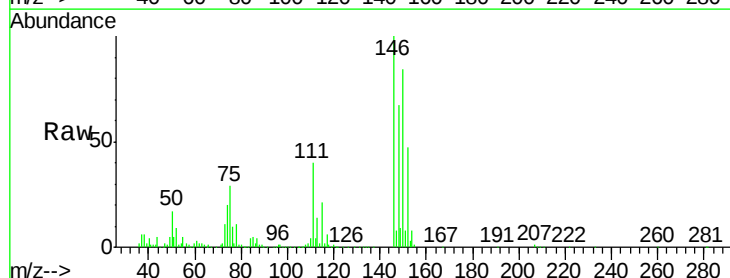
Manual Integrations
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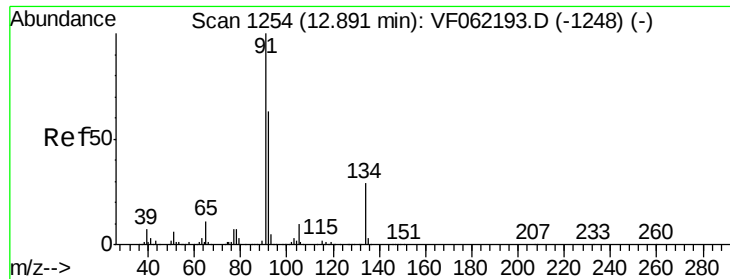
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#88
 1,4-Dichlorobenzene
 Concen: 19.783 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. 0.01 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.0	60.0
148	65.8	33.6	100.8





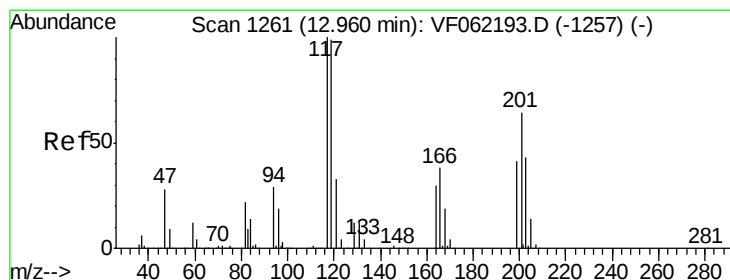
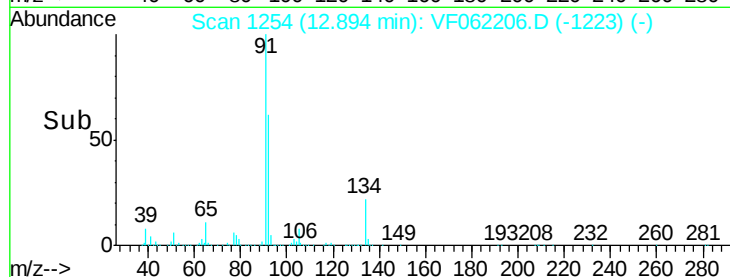
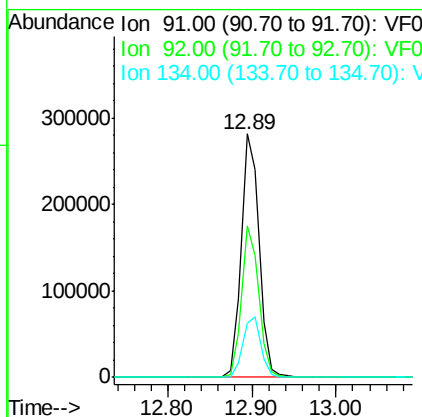
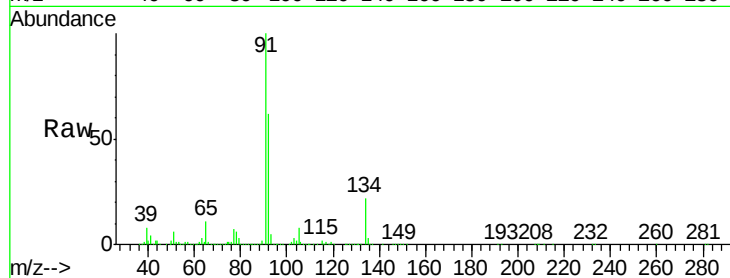
#89
n-Butylbenzene
Concen: 19.469 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.1	31.2	93.6
134	25.4	13.1	39.1

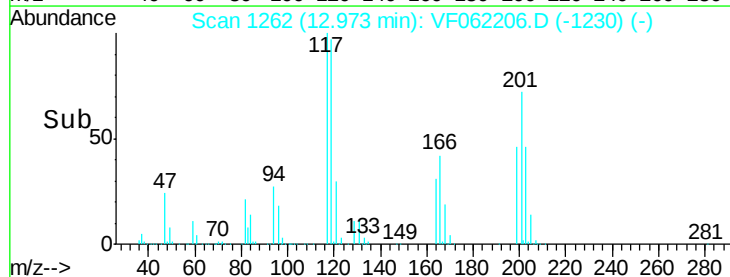
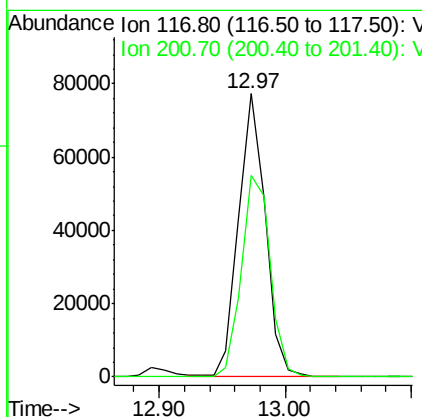
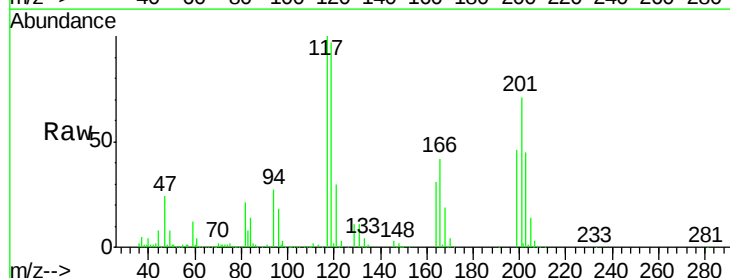
Manual Integrations
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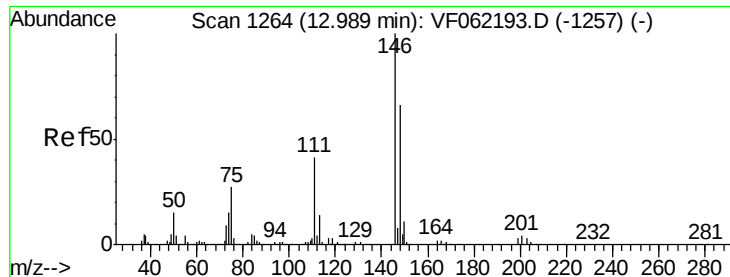
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#90
Hexachloroethane
Concen: 19.772 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.4	37.7	113.1





#91

1,2-Dichlorobenzene

Concen: 19.655 ug/l

RT: 13.00 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

Instrument :

MSVOA_F

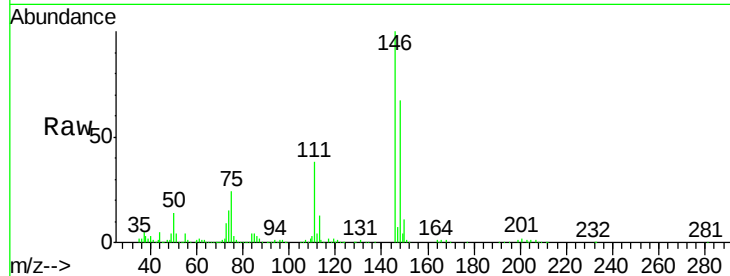
ClientSampleId :

VF0418SBS01

Tot Ion:	146	Resp:	176771
Ion Ratio	Lower	Upper	
146	100		
111	42.2	20.8	62.5
148	66.4	33.0	99.0

Manual Integrations
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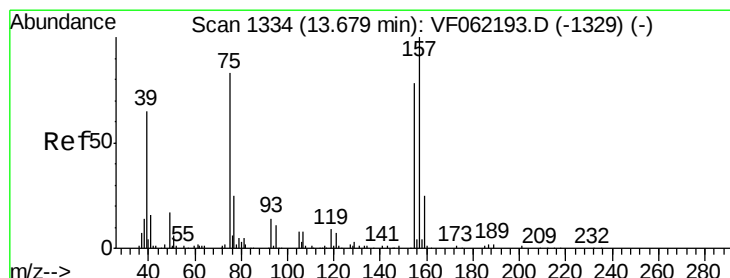
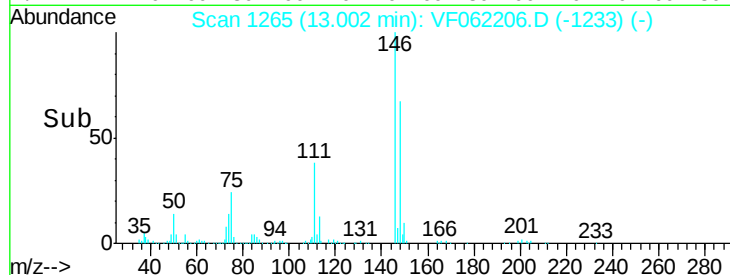
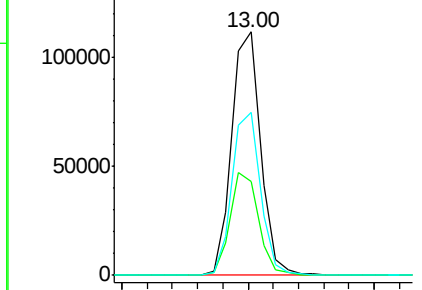
MMDadoda
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Abundance Ion 145.90 (145.60 to 146.60): V

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: 18.448 ug/l

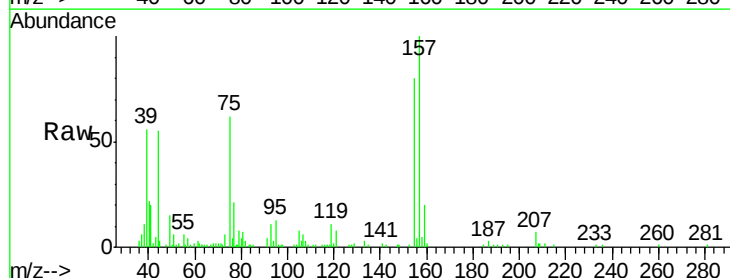
RT: 13.69 min Scan# 1335

Delta R.T. 0.01 min

Lab File: VF062206.D

Acq: 18 Apr 2019 15:45

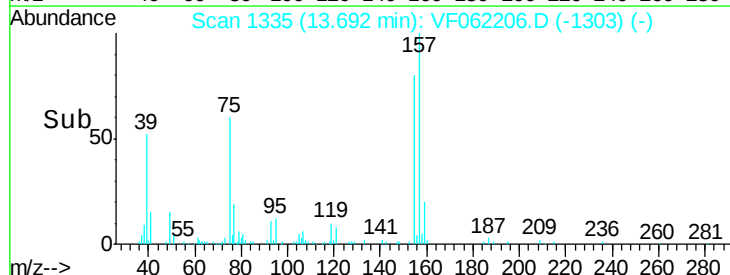
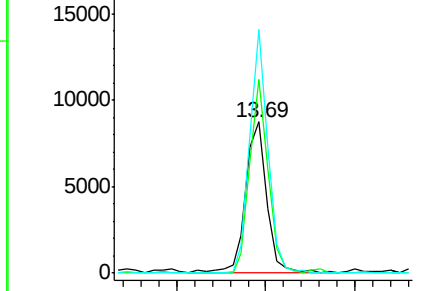
Tgt Ion:	75	Resp:	14605
Ion Ratio	Lower	Upper	
75	100		
155	108.4	47.6	142.8
157	135.2	61.3	183.9

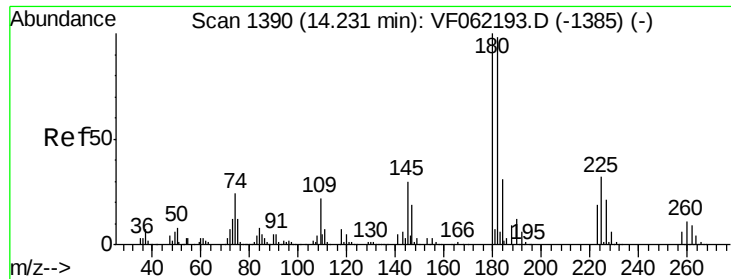


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





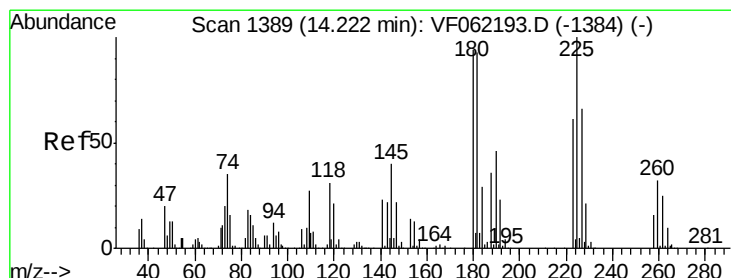
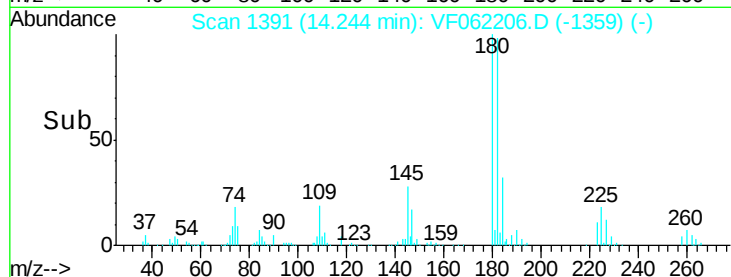
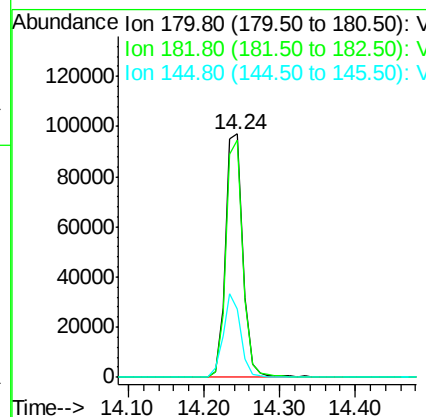
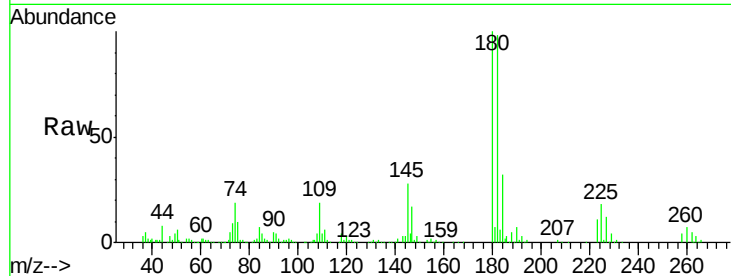
#93
 1,2,4-Trichlorobenzene
 Concen: 20.866 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0418SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	157019		
182	95.5	49.3	147.9	
145	34.4	18.1	54.4	

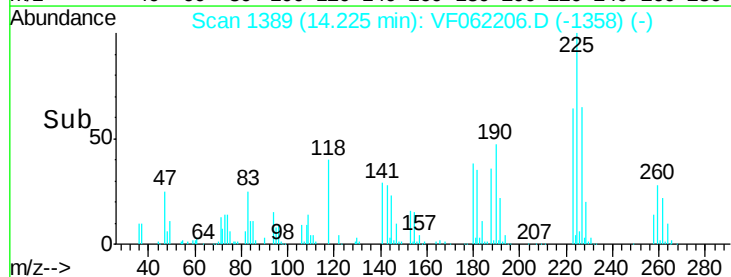
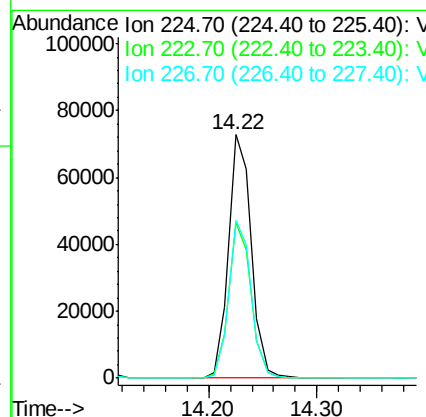
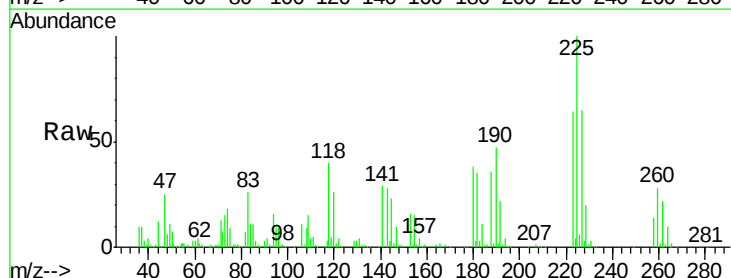
Manual Integrations
 APPROVED

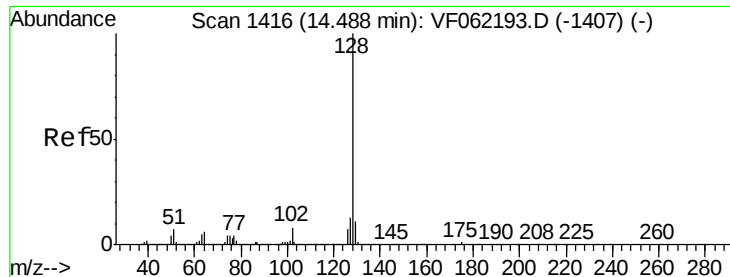
MMDadoda
 4/19/2019 10:52:28 AM



#94
 Hexachlorobutadiene
 Concen: 20.704 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. 0.00 min
 Lab File: VF062206.D
 Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	106830		
223	62.4	31.0	93.0	
227	63.8	32.4	97.0	





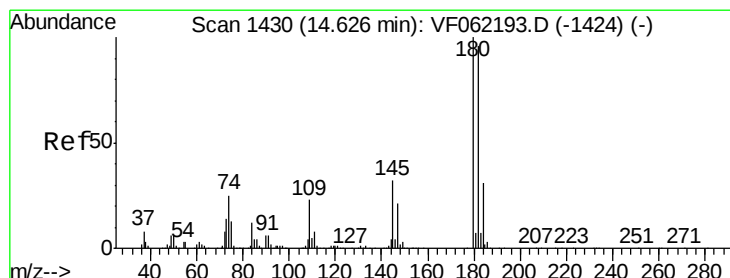
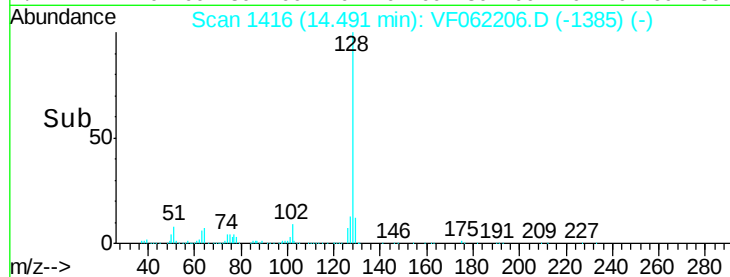
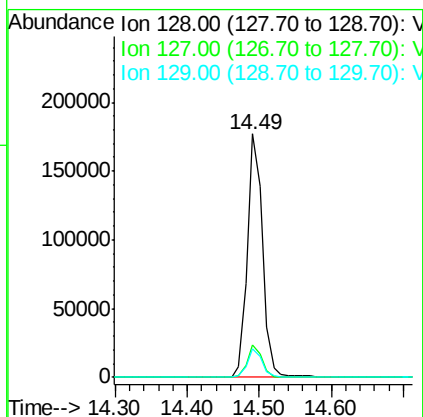
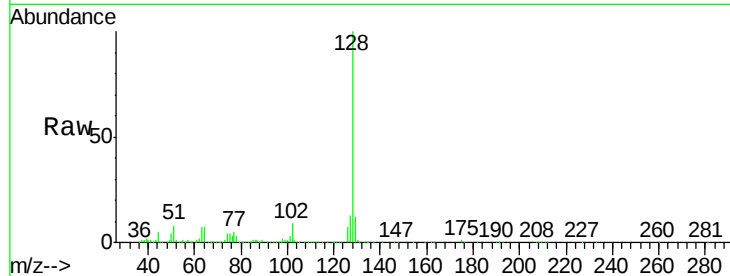
#95
Naphthalene
Concen: 20.014 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Instrument :
MSVOA_F
ClientSampleId :
VF0418SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	263341		
127	12.8	10.4	15.6	
129	11.1	9.2	13.8	

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:52:28 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.677 ug/l
RT: 14.64 min Scan# 1431
Delta R.T. 0.01 min
Lab File: VF062206.D
Acq: 18 Apr 2019 15:45

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	149376		
182	92.5	48.4	145.3	
145	28.6	15.6	46.8	

