

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041919\
 Data File : VF062220.D
 Acq On : 19 Apr 2019 12:58
 Operator : FY/SY
 Sample : VF0419SBS01
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Manual Integrations
 APPROVED

MMDadoda
 4/23/2019 6:55:55 AM

Quant Time: Apr 19 15:49:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 03:56:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	456602	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.78	114	695950	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.91	117	530369	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	293634	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.04	65	224381	53.59	ug/l	0.03
Spiked Amount	50.000		Recovery	=	107.18%	
35) Dibromofluoromethane	4.32	113	306240	50.30	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.60%	
50) Toluene-d8	7.72	98	784189	50.89	ug/l	0.02
Spiked Amount	50.000		Recovery	=	101.78%	
62) 4-Bromofluorobenzene	11.50	95	314491	53.05	ug/l	0.02
Spiked Amount	50.000		Recovery	=	106.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	137580	19.827	ug/l	94
3) Chloromethane	1.15	50	129539	18.062	ug/l	99
4) Vinyl Chloride	1.20	62	115144	18.687	ug/l	99
5) Bromomethane	1.39	94	63155	17.643	ug/l	98
6) Chloroethane	1.45	64	43429	16.860	ug/l	97
7) Trichlorofluoromethane	1.56	101	149986	19.160	ug/l	97
8) Diethyl Ether	1.71	74	30732	18.863	ug/l	91
9) 1,1,2-Trichlorotrifluoroet	1.91	101	108949	20.373	ug/l	99
10) Methyl Iodide	1.99	142	190640	20.067	ug/l	91
11) Tert butyl alcohol	2.72	59	28330	97.344	ug/l #	89
12) 1,1-Dichloroethene	1.87	96	96452	18.963	ug/l	93
13) Acrolein	2.11	56	17300	119.808	ug/l	94
14) Allyl chloride	2.21	41	104263	17.862	ug/l	93
15) Acrylonitrile	3.10	53	80280	90.568	ug/l	100
16) Acetone	2.36	43	95742	95.670	ug/l	99
17) Carbon Disulfide	1.92	76	264907	18.743	ug/l	98
18) Methyl Acetate	2.46	43	44018	16.509	ug/l	97
19) Methyl tert-butyl Ether	2.56	73	183745	20.461	ug/l	97
20) Methylene Chloride	2.34	84	111955m	18.881	ug/l	
21) trans-1,2-Dichloroethene	2.43	96	94232	18.734	ug/l	94
22) Diisopropyl ether	2.94	45	272045	18.219	ug/l	98
23) Vinyl Acetate	3.36	43	712400	100.138	ug/l	99
24) 1,1-Dichloroethane	3.01	63	158318	19.382	ug/l	99
25) 2-Butanone	4.54	43	182400	91.152	ug/l	98
26) 2,2-Dichloropropane	3.78	77	83555	20.261	ug/l	95
27) cis-1,2-Dichloroethene	3.65	96	125202	19.221	ug/l	97
28) Bromochloromethane	3.91	49	75155	19.208	ug/l #	97
29) Tetrahydrofuran	4.29	42	81916	90.440	ug/l	96
30) Chloroform	4.06	83	194081	19.334	ug/l	99
31) Cyclohexane	3.88	56	165558	16.913	ug/l	94
32) 1,1,1-Trichloroethane	4.30	97	151711	20.647	ug/l #	88
36) 1,1-Dichloropropene	4.48	75	144104	17.270	ug/l	99
37) Ethyl Acetate	4.32	43	65243	16.570	ug/l #	99
38) Carbon Tetrachloride	4.20	117	120952m	16.377	ug/l	

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.65	83	184827	18.500	ug/l	98
40) Benzene	4.83	78	390321	17.834	ug/l	99
41) Methacrylonitrile	4.95	41	40754	17.944	ug/l	96
42) 1,2-Dichloroethane	5.14	62	113325	19.586	ug/l	99
43) Isopropyl Acetate	7.12	43	72167	17.427	ug/l	99
44) Trichloroethene	5.70	130	118557	20.047	ug/l	96
45) 1,2-Dichloropropane	6.41	63	90752	18.825	ug/l	95
46) Dibromomethane	6.27	93	61983	19.325	ug/l	95
47) Bromodichloromethane	6.56	83	135647	18.741	ug/l	97
48) Methyl methacrylate	6.89	41	48539	17.835	ug/l	95
49) 1,4-Dioxane	6.89	88	11358	363.903	ug/l	93
51) 4-Methyl-2-Pentanone	8.42	43	285264	92.614	ug/l	99
52) Toluene	7.78	92	217375	18.842	ug/l	94
53) t-1,3-Dichloropropene	8.44	75	109739	20.186	ug/l	97
54) cis-1,3-Dichloropropene	7.47	75	141698	19.269	ug/l	99
55) 1,1,2-Trichloroethane	8.64	97	65172	20.165	ug/l	95
56) Ethyl methacrylate	8.76	69	68336	18.597	ug/l	98
57) 1,3-Dichloropropane	9.01	76	103683	19.867	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.46	63	110365	103.451	ug/l	99
59) 2-Hexanone	9.63	43	194050	101.109	ug/l	97
60) Dibromochloromethane	8.87	129	97966	20.382	ug/l	96
61) 1,2-Dibromoethane	9.15	107	73557	20.202	ug/l	97
64) Tetrachloroethene	8.32	164	96624	20.182	ug/l	96
65) Chlorobenzene	9.94	112	230391	20.372	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.07	131	106224	20.058	ug/l	100
67) Ethyl Benzene	10.04	91	417125	20.284	ug/l	99
68) m/p-Xylenes	10.27	106	306657	40.509	ug/l	98
69) o-Xylene	10.82	106	167269	19.901	ug/l	98
70) Styrene	10.90	104	247816	20.893	ug/l	97
71) Bromoform	10.89	173	60041	21.473	ug/l #	98
73) Isopropylbenzene	11.23	105	497772	19.735	ug/l	98
74) N-amyl acetate	11.45	43	119516	18.590	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.78	83	87668	20.210	ug/l	98
76) 1,2,3-Trichloropropane	11.88	75	54798m	18.361	ug/l	
77) Bromobenzene	11.59	156	112029	20.733	ug/l	93
78) n-propylbenzene	11.68	91	528185	19.850	ug/l	100
79) 2-Chlorotoluene	11.81	91	325287	20.153	ug/l	98
80) 1,3,5-Trimethylbenzene	11.91	105	420240	20.004	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.94	75	27919m	18.343	ug/l	
82) 4-Chlorotoluene	11.97	91	311766	19.987	ug/l	98
83) tert-Butylbenzene	12.20	119	430647	19.823	ug/l	97
84) 1,2,4-Trimethylbenzene	12.27	105	393319	19.347	ug/l	99
85) sec-Butylbenzene	12.38	105	542360	19.229	ug/l	99
86) p-Isopropyltoluene	12.53	119	489529	20.461	ug/l	98
87) 1,3-Dichlorobenzene	12.55	146	209509	20.895	ug/l	99
88) 1,4-Dichlorobenzene	12.63	146	194665	20.128	ug/l	99
89) n-Butylbenzene	12.90	91	460236	20.308	ug/l	98
90) Hexachloroethane	12.98	117	118587	19.302	ug/l	97
91) 1,2-Dichlorobenzene	13.00	146	198971	20.551	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.69	75	16629	19.512	ug/l	93

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QLast Update : Fri Apr 19 03:56:19 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	174460	21.536	ug/l	97
94) Hexachlorobutadiene	14.23	225	119120	21.445	ug/l	98
95) Naphthalene	14.50	128	279053	19.701	ug/l	99
96) 1,2,3-Trichlorobenzene	14.65	180	167550	21.544	ug/l	97

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

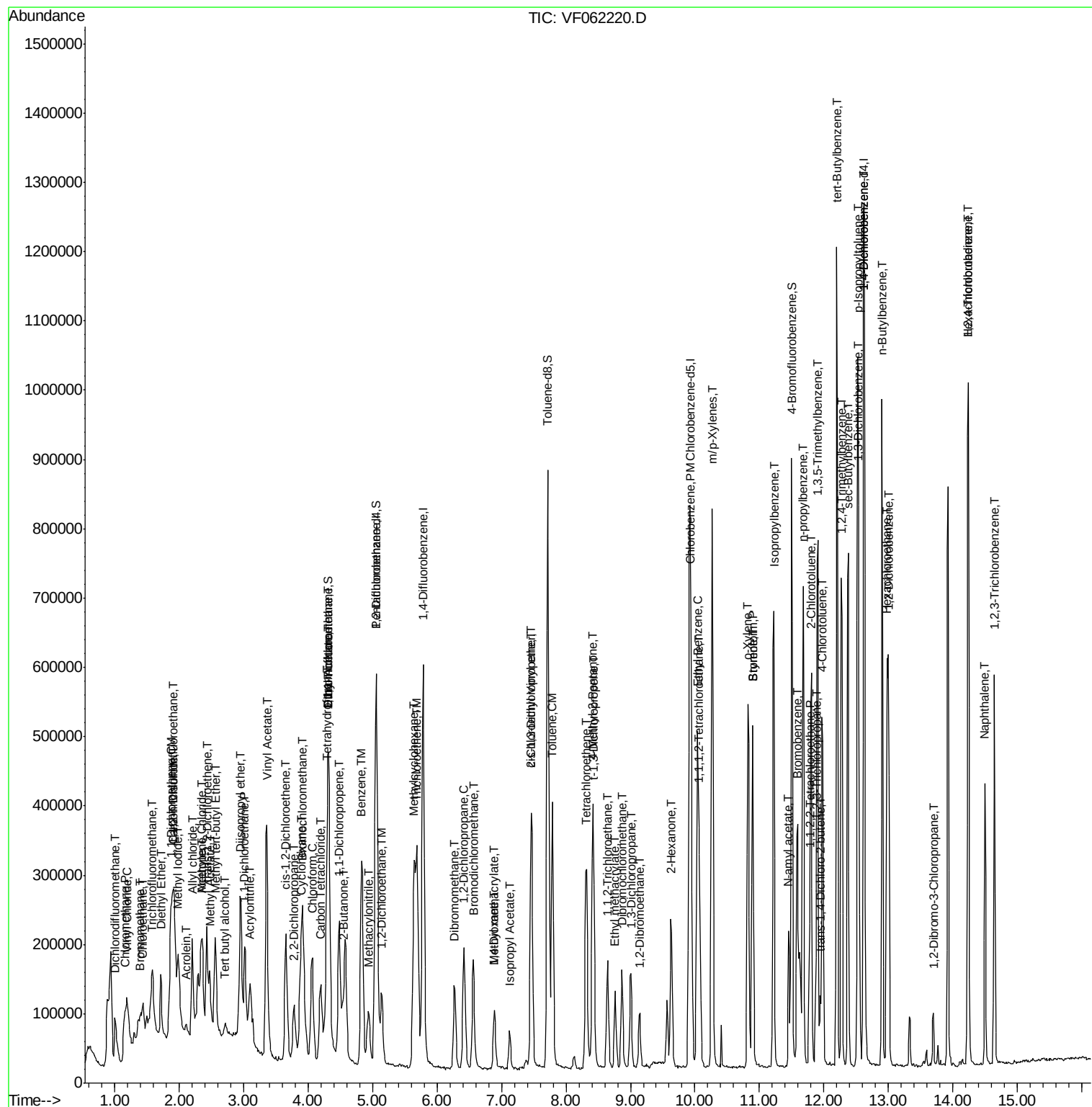
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF041919\
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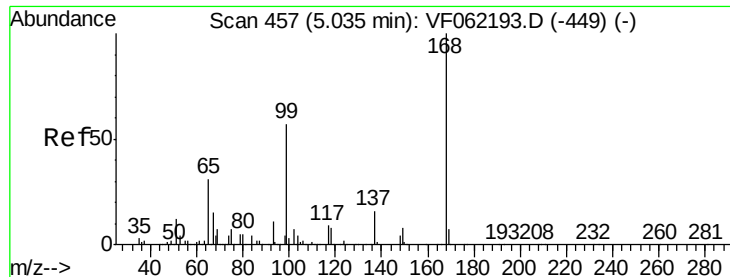
Instrument :
 MSVOA_F
 ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion:168 Resp: 456602

Ion Ratio Lower Upper

168 100

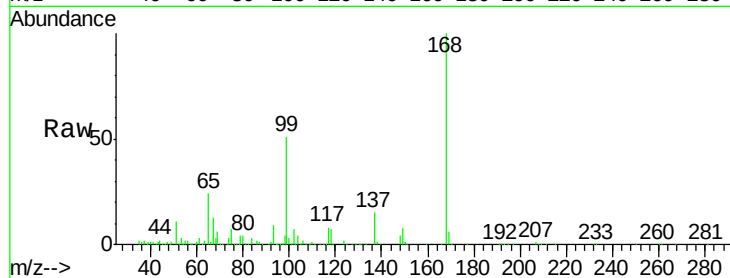
99 50.9 45.5 68.3

Manual Integrations

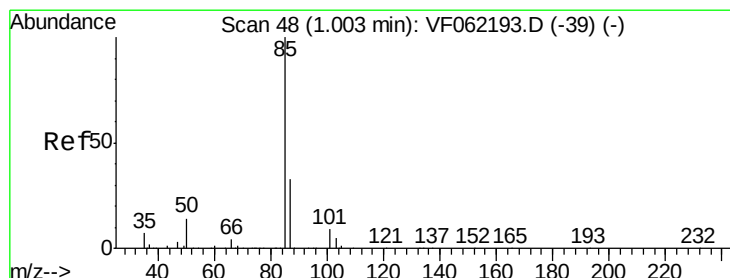
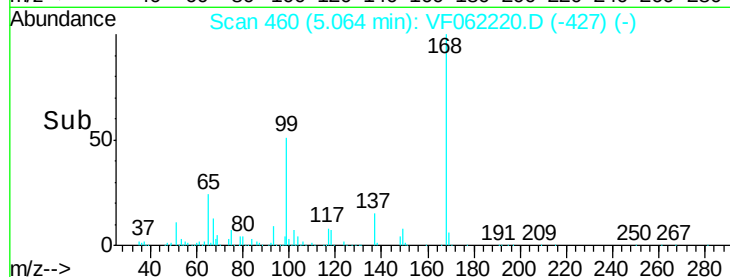
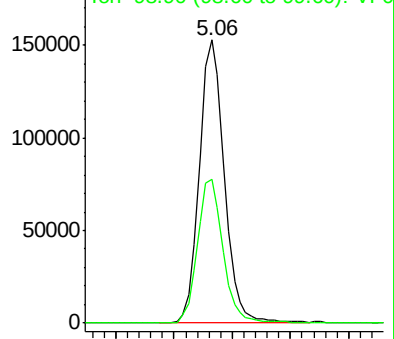
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Abundance Ion 167.90 (167.60 to 168.60): VF0



#2

Dichlorodifluoromethane

Concen: 19.827 ug/l

RT: 1.01 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062220.D

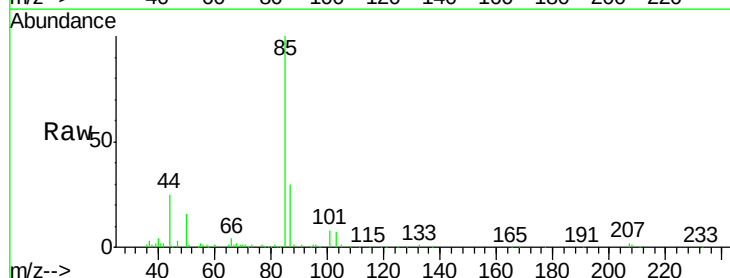
Acq: 19 Apr 2019 12:58

Tgt Ion: 85 Resp: 137580

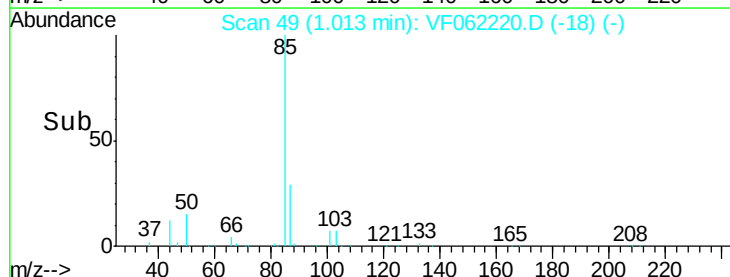
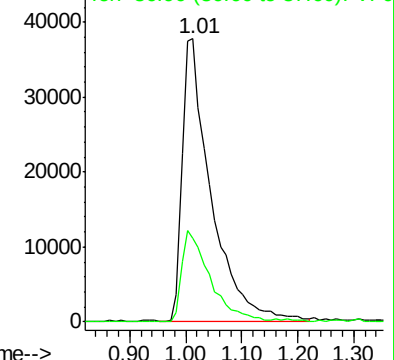
Ion Ratio Lower Upper

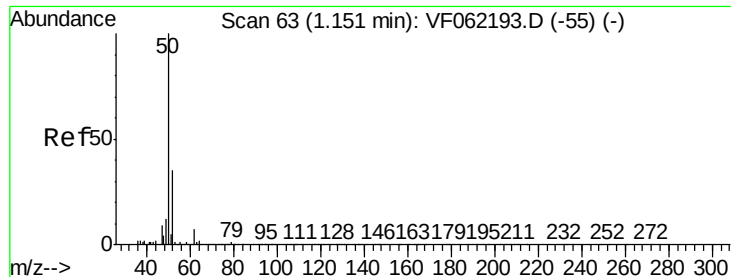
85 100

87 29.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VF0





#3

Chloromethane

Concen: 18.062 ug/l

RT: 1.15 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 50 Resp: 129539

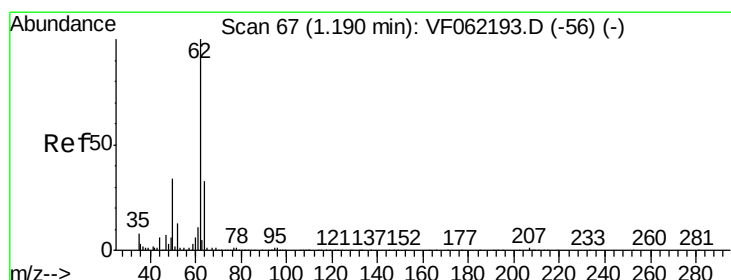
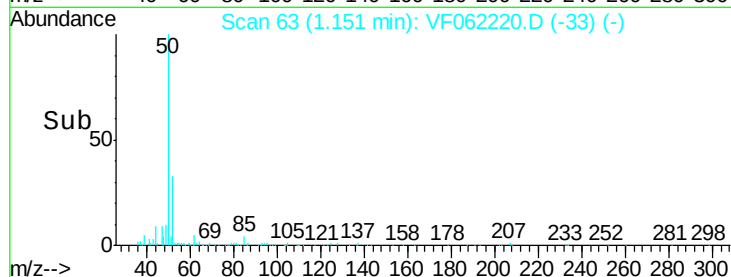
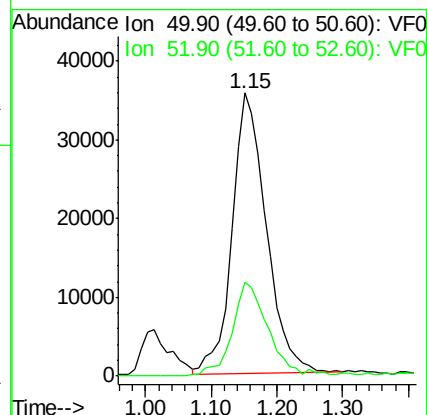
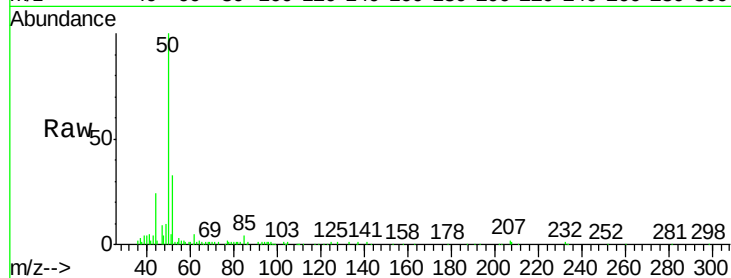
Ion Ratio Lower Upper

50 100

52 33.1 27.0 40.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 18.687 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.01 min

Lab File: VF062220.D

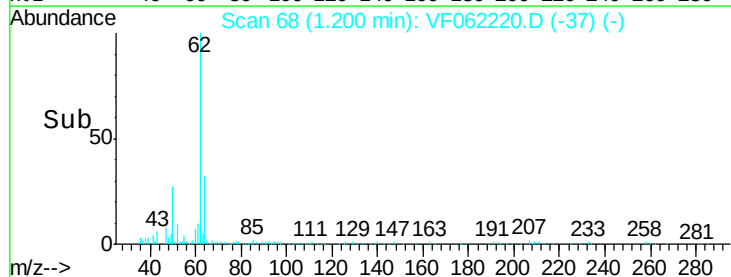
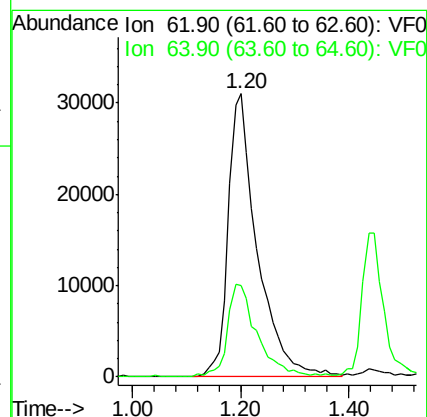
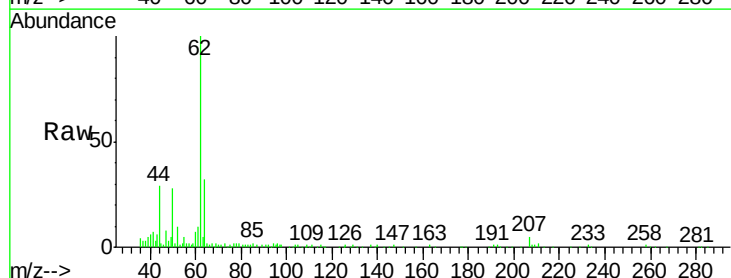
Acq: 19 Apr 2019 12:58

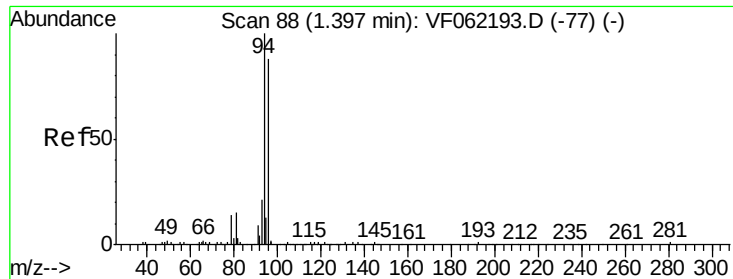
Tgt Ion: 62 Resp: 115144

Ion Ratio Lower Upper

62 100

64 32.2 26.2 39.4





#5

Bromomethane

Concen: 17.643 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 94 Resp: 63155

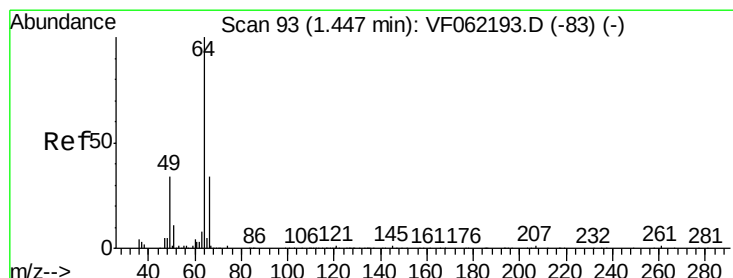
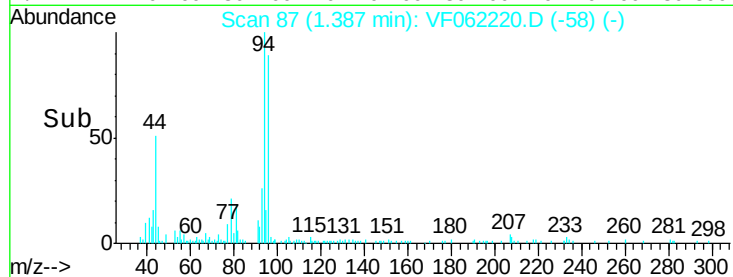
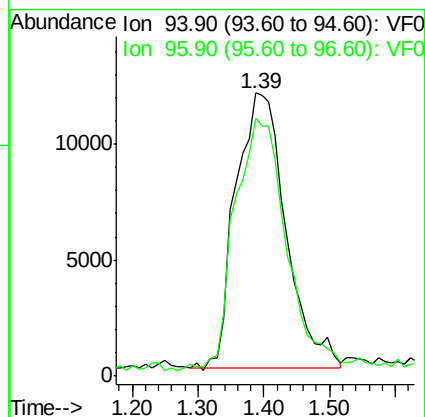
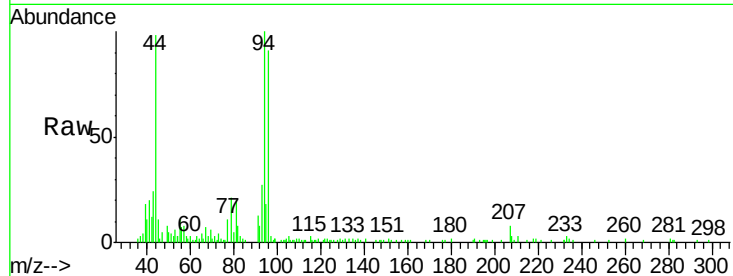
Ion Ratio Lower Upper

94 100

96 89.4 70.2 105.4

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#6

Chloroethane

Concen: 16.860 ug/l

RT: 1.45 min Scan# 93

Delta R.T. 0.00 min

Lab File: VF062220.D

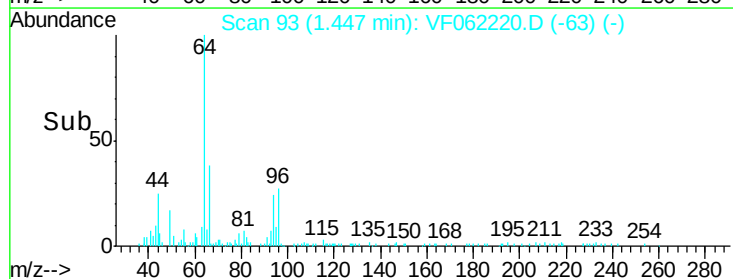
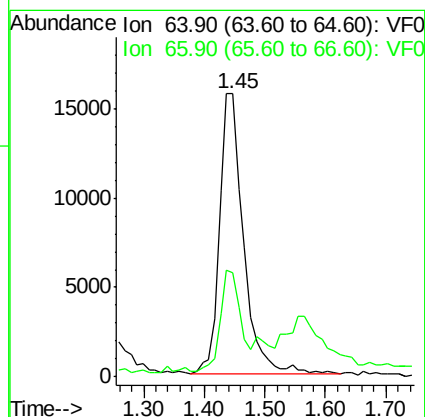
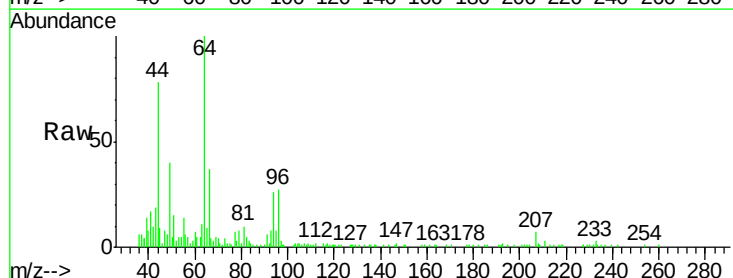
Acq: 19 Apr 2019 12:58

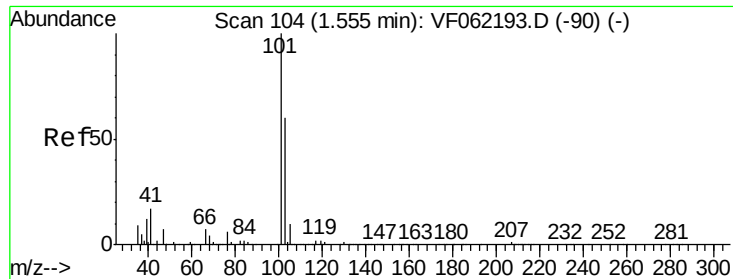
Tgt Ion: 64 Resp: 43429

Ion Ratio Lower Upper

64 100

66 35.2 27.0 40.4





#7

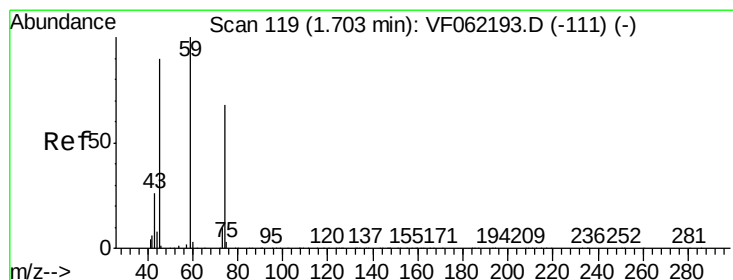
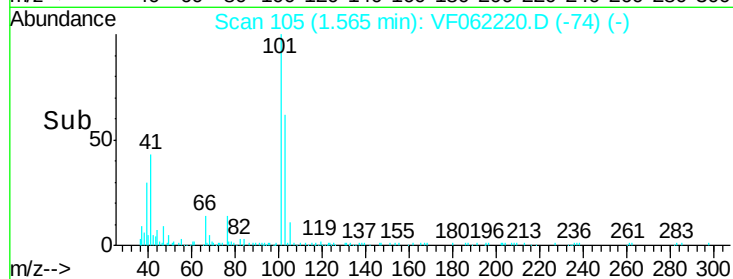
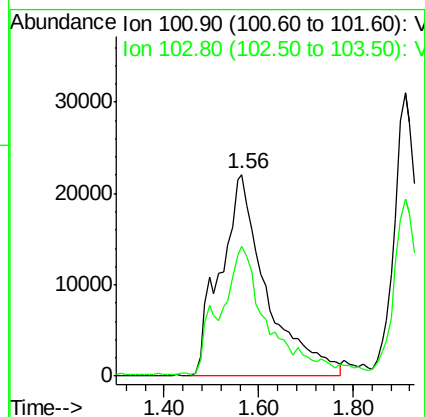
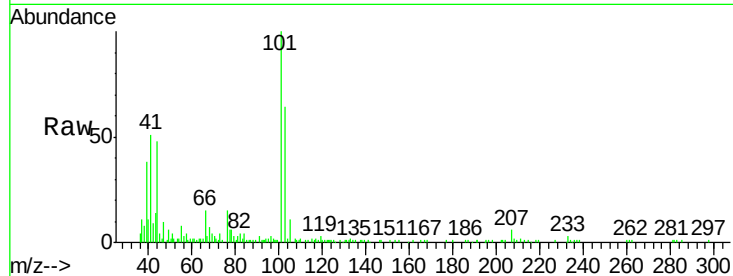
Trichlorofluoromethane
Concen: 19.160 ug/l
RT: 1.56 min Scan# 105
Delta R.T. 0.01 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion:101 Resp: 149986
Ion Ratio Lower Upper
101 100
103 62.9 48.2 72.4

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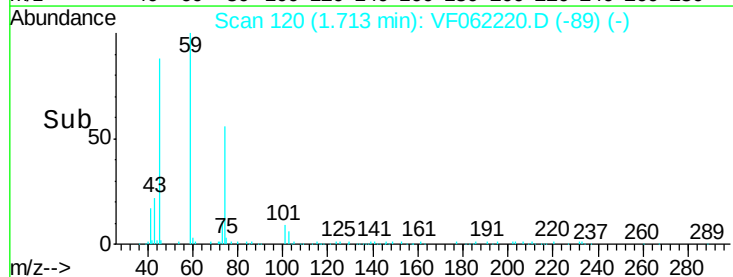
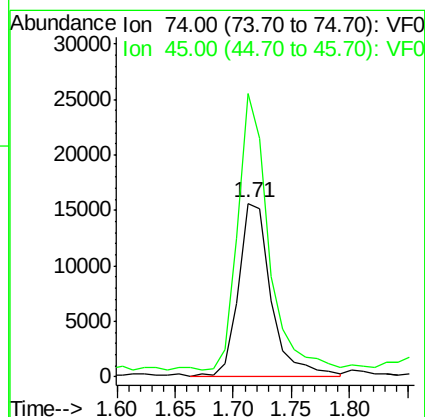
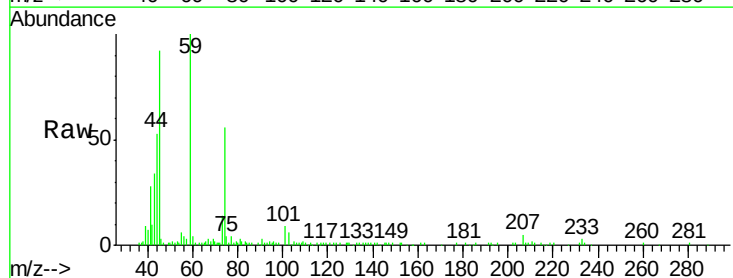
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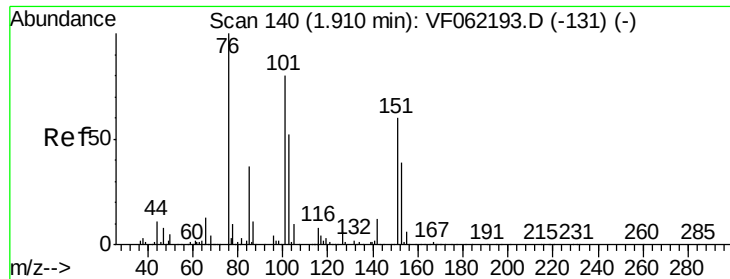


#8

Diethyl Ether
Concen: 18.863 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion: 74 Resp: 30732
Ion Ratio Lower Upper
74 100
45 151.1 70.0 210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.373 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

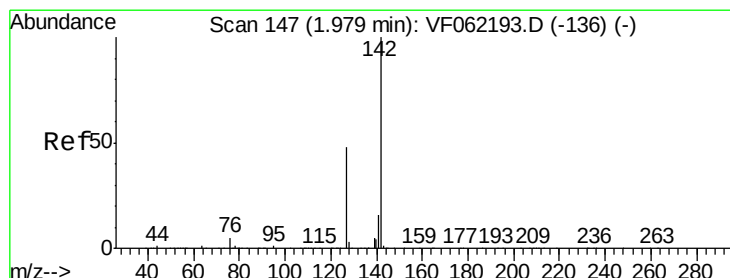
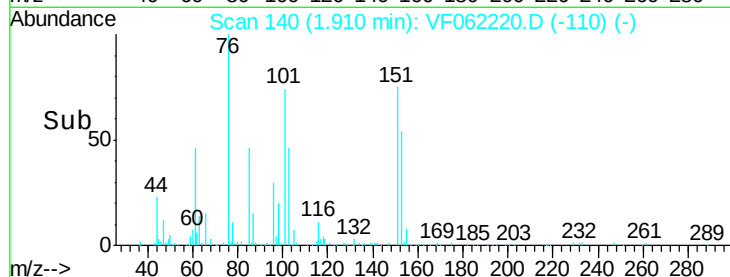
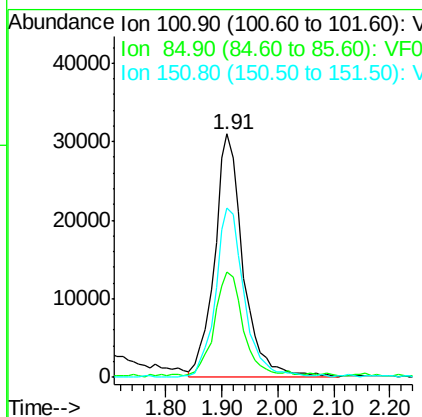
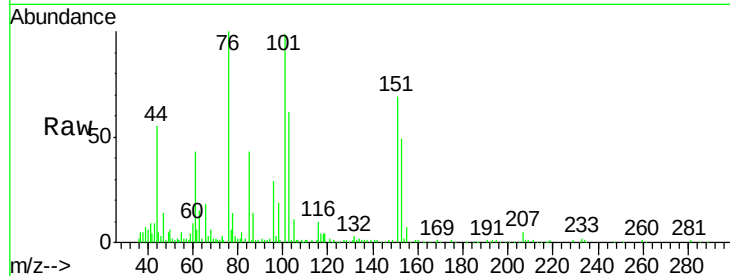
ClientSampleId :

VF0419SBS01

Tot Ion:	101	Resp:	108949
Ion Ratio	Lower	Upper	
101	100		
85	43.3	35.3	52.9
151	71.2	57.5	86.3

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#10

Methyl Iodide

Concen: 20.067 ug/l

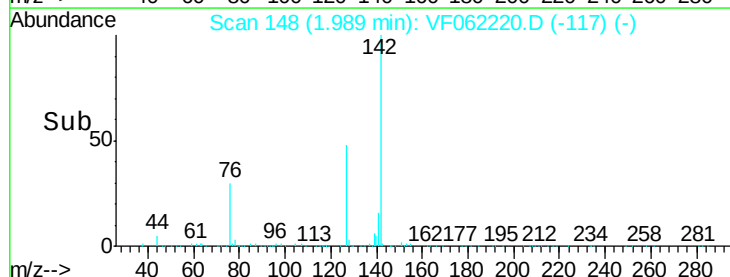
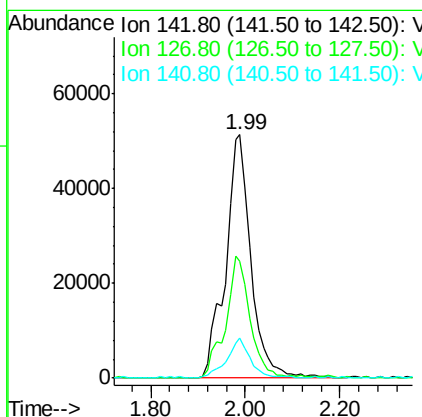
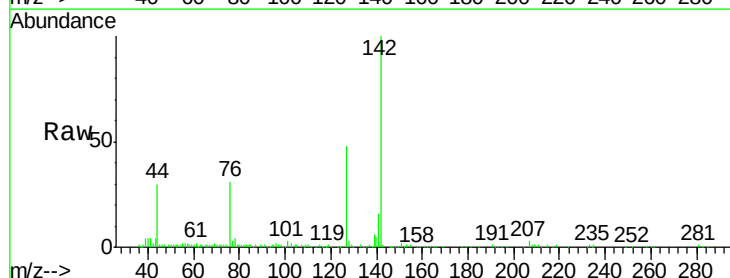
RT: 1.99 min Scan# 148

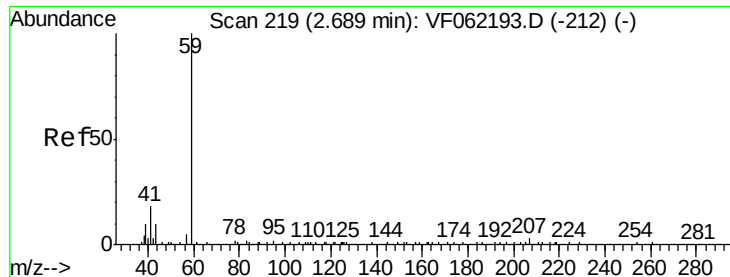
Delta R.T. 0.01 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	142	Resp:	190640
Ion Ratio	Lower	Upper	
142	100		
127	49.0	33.0	49.4
141	15.2	12.7	19.1





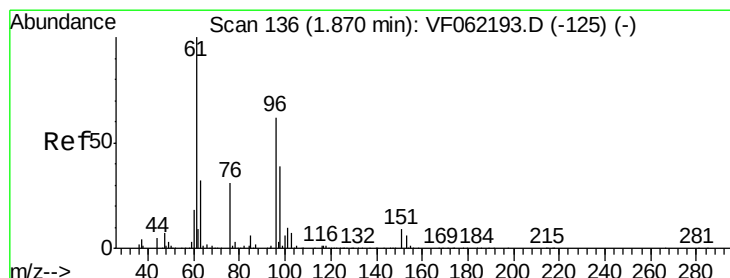
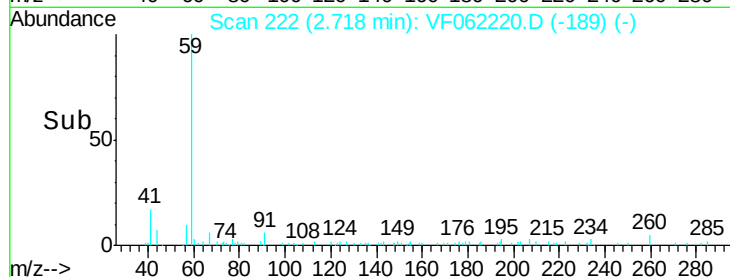
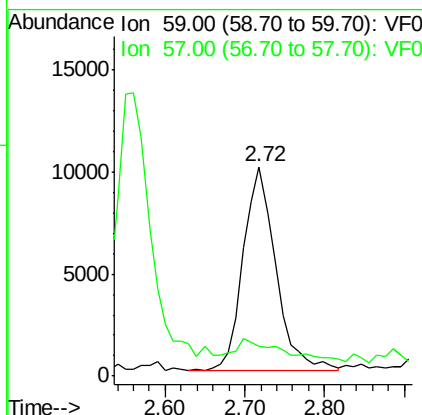
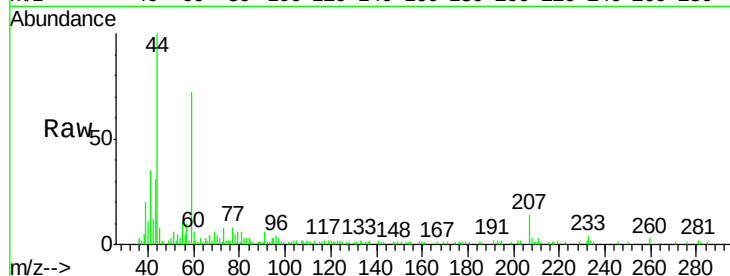
#11
Tert butyl alcohol
Concen: 97.344 ug/l
RT: 2.72 min Scan# 222
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	28330		
57	15.7	9.3	13.9#	

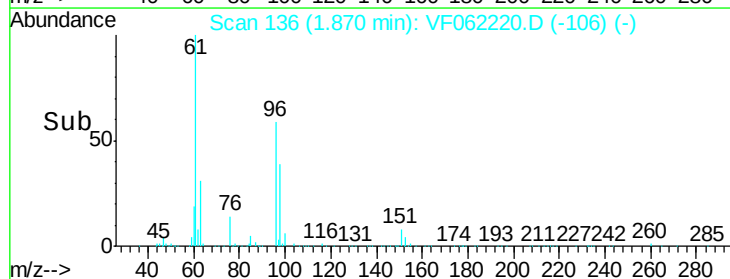
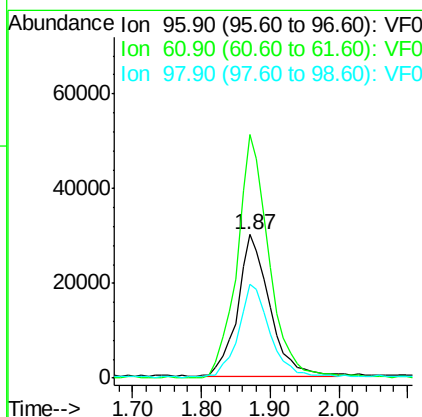
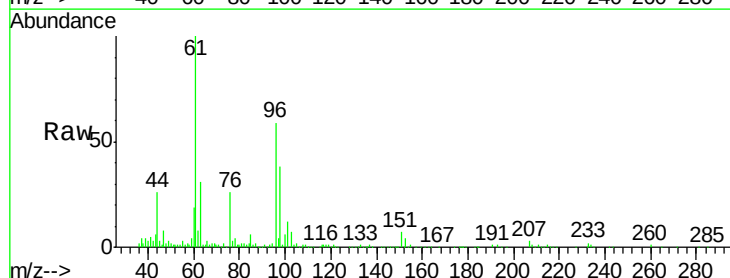
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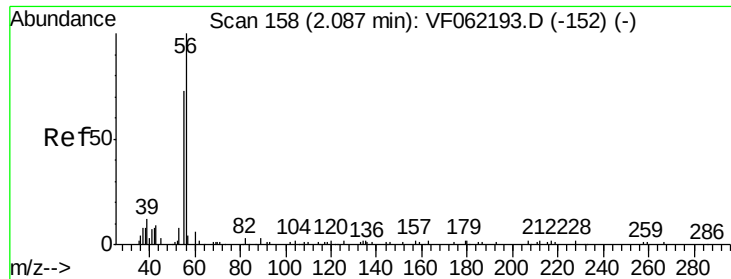
MMDadoda
4/23/2019 6:55:55 AM



#12
1,1-Dichloroethene
Concen: 18.963 ug/l
RT: 1.87 min Scan# 136
Delta R.T. 0.00 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	96452		
61	172.0	129.1	193.7	
98	65.0	50.0	75.0	





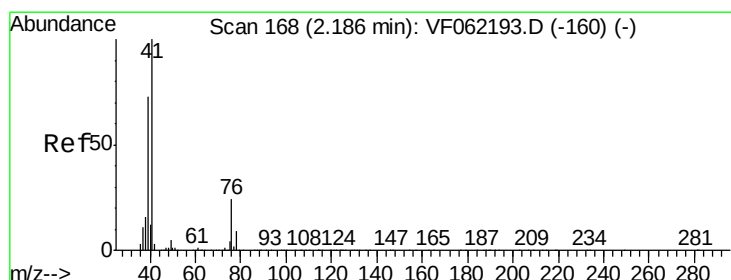
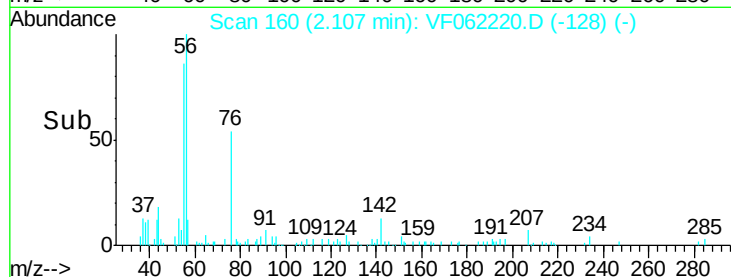
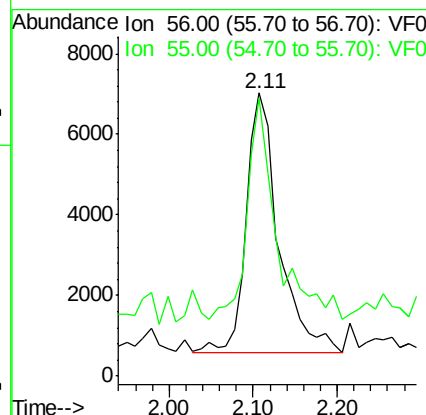
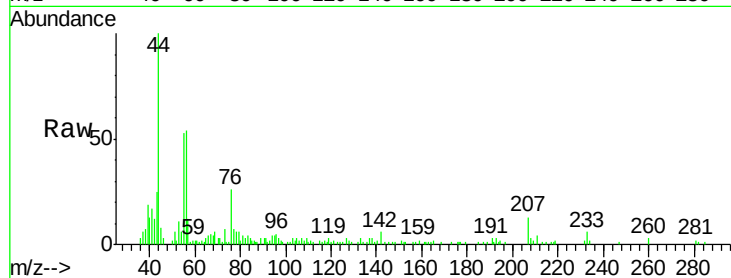
#13
Acrolein
Concen: 119.808 ug/l
RT: 2.11 min Scan# 160
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	56	Resp	17300
Ion Ratio	100	Lower	Upper
55	76.8	57.4	86.0

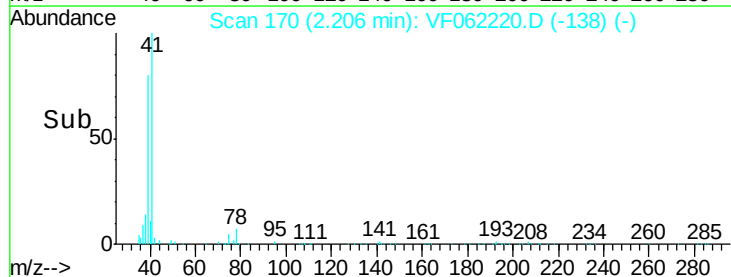
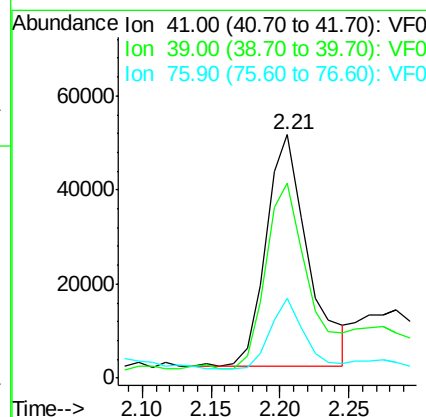
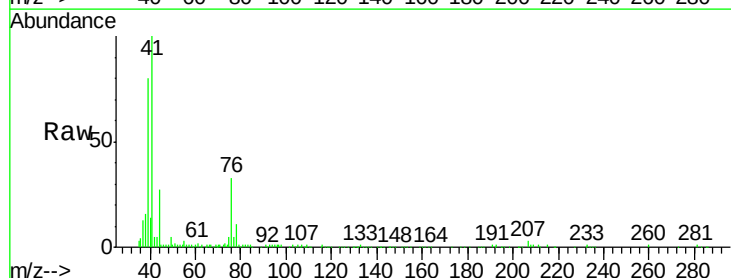
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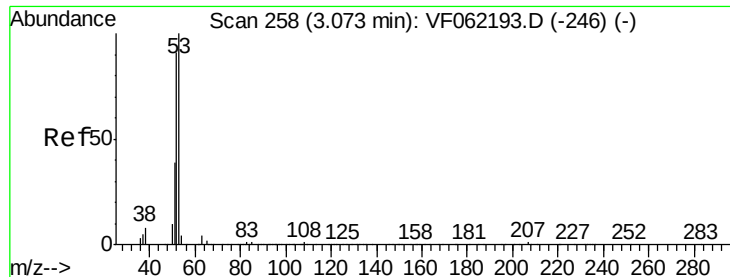
MMDadoda
4/23/2019 6:55:55 AM



#14
Allyl chloride
Concen: 17.862 ug/l
RT: 2.21 min Scan# 170
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	41	Resp	104263
Ion Ratio	100	Lower	Upper
39	82.4	60.0	90.0
76	25.0	20.6	30.8





#15

Acrylonitrile

Concen: 90.568 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

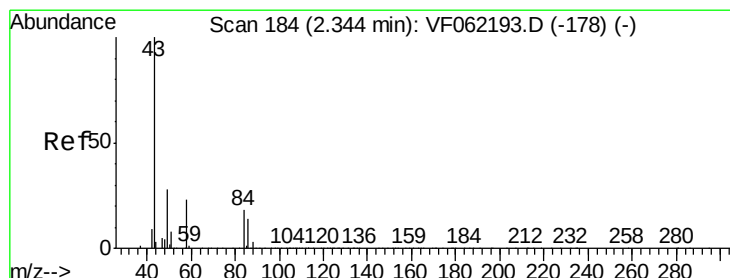
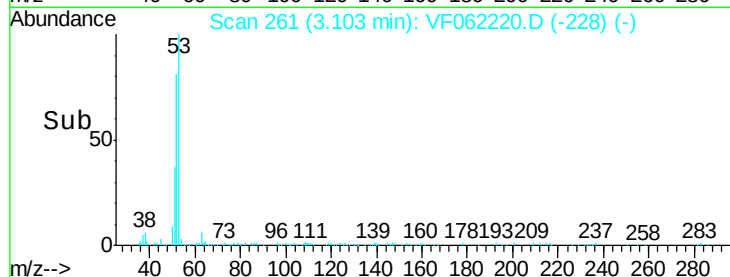
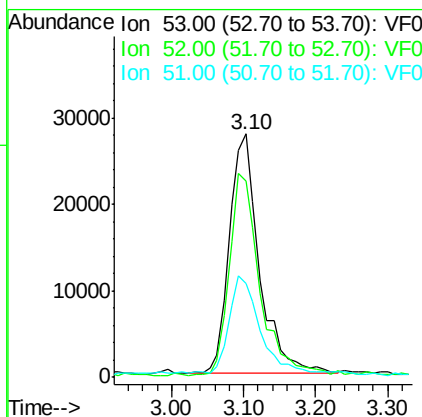
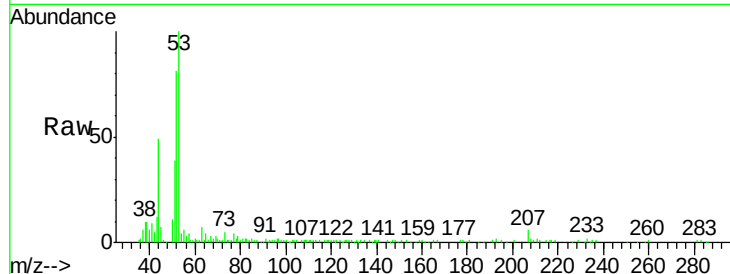
ClientSampleId :

VF0419SBS01

Tot Ion:	53	Resp:	80280
Ion	Ratio	Lower	Upper
53	100		
52	86.4	69.5	104.3
51	39.5	31.8	47.8

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#16

Acetone

Concen: 95.670 ug/l

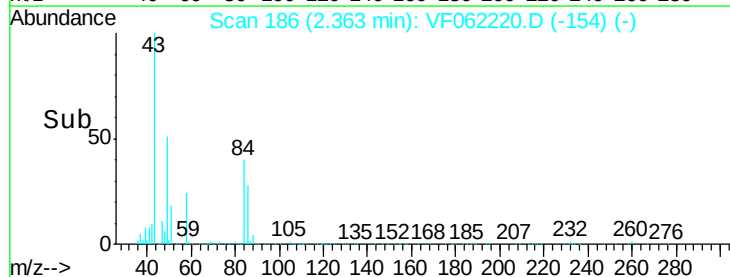
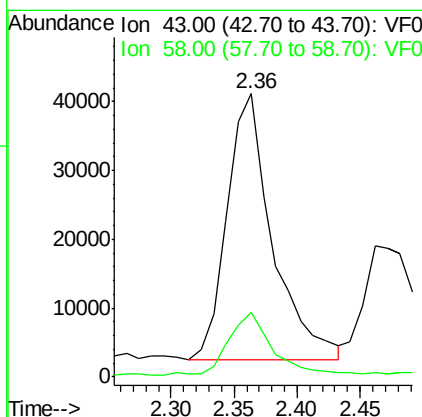
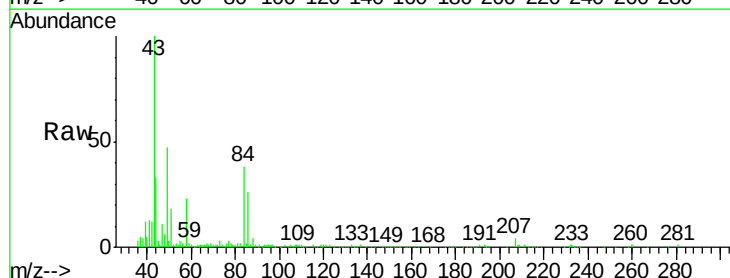
RT: 2.36 min Scan# 186

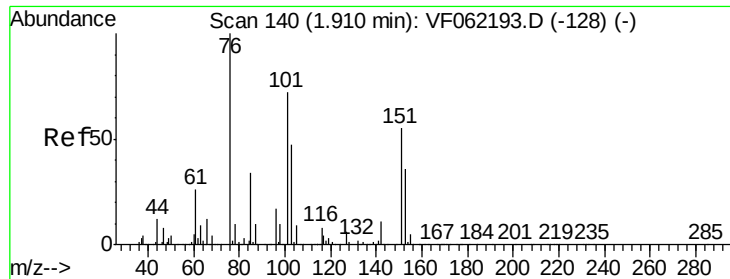
Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	43	Resp:	95742
Ion	Ratio	Lower	Upper
43	100		
58	23.2	18.8	28.2





#17

Carbon Disulfide

Concen: 18.743 ug/l

RT: 1.92 min Scan# 141

Delta R.T. 0.01 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 76 Resp: 264907

Ion Ratio Lower Upper

76 100

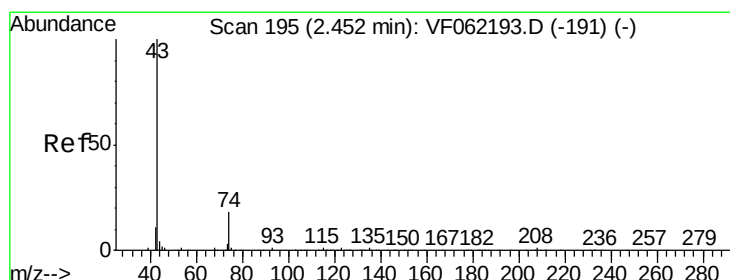
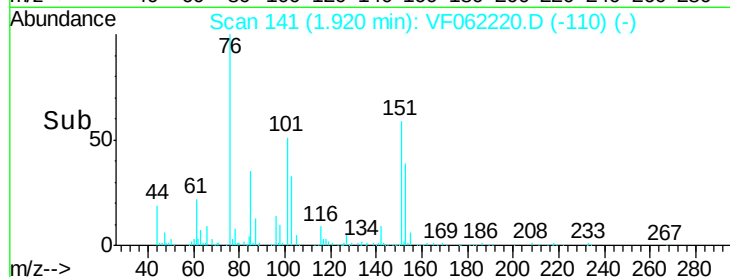
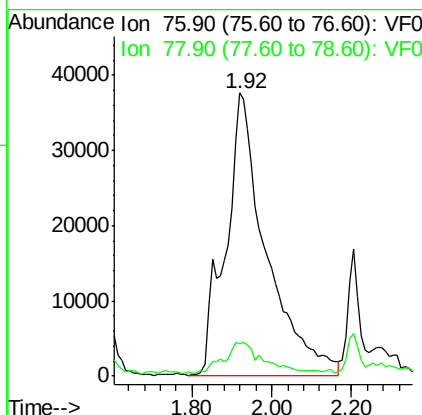
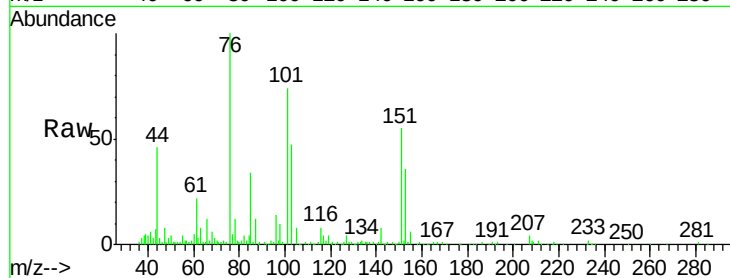
78 10.2 8.7 13.1

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#18

Methyl Acetate

Concen: 16.509 ug/l

RT: 2.46 min Scan# 196

Delta R.T. 0.01 min

Lab File: VF062220.D

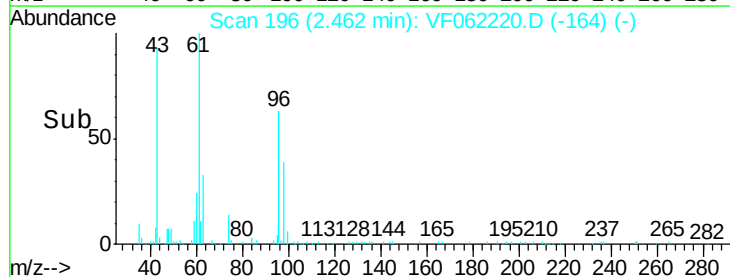
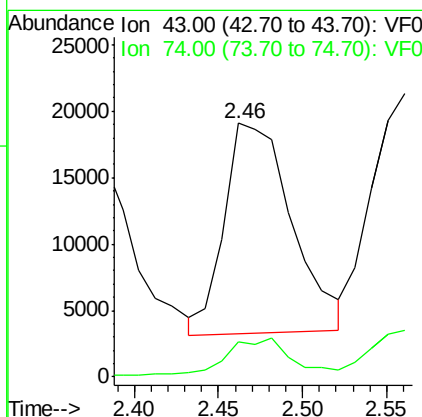
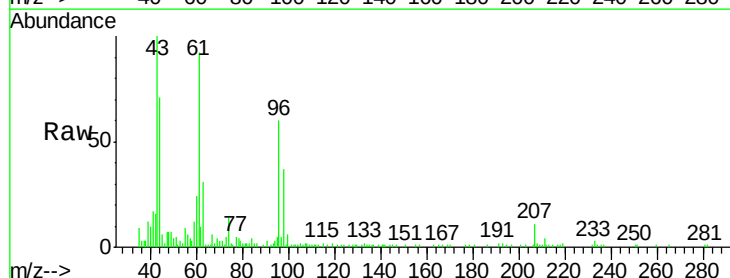
Acq: 19 Apr 2019 12:58

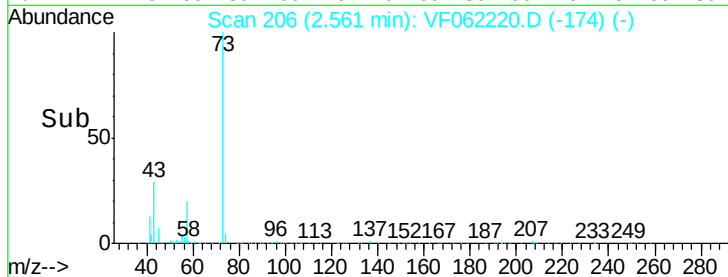
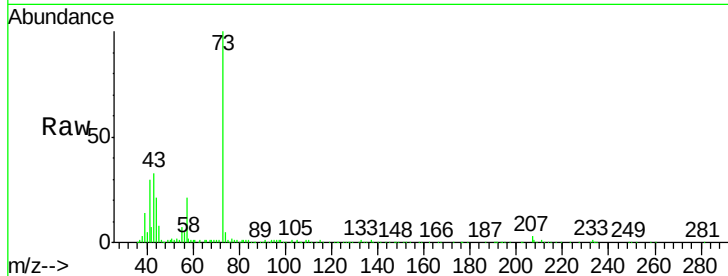
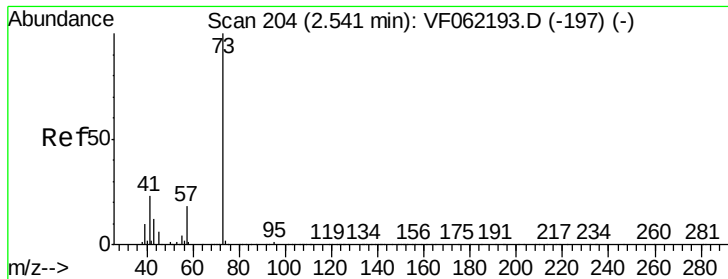
Tgt Ion: 43 Resp: 44018

Ion Ratio Lower Upper

43 100

74 16.9 14.5 21.7





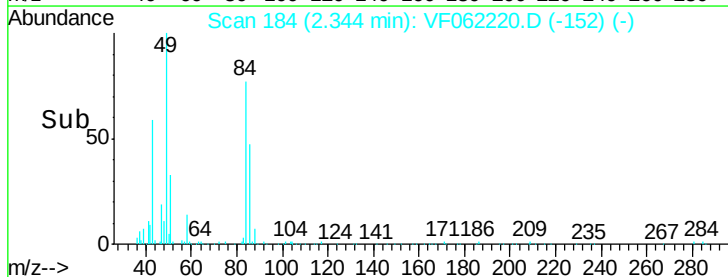
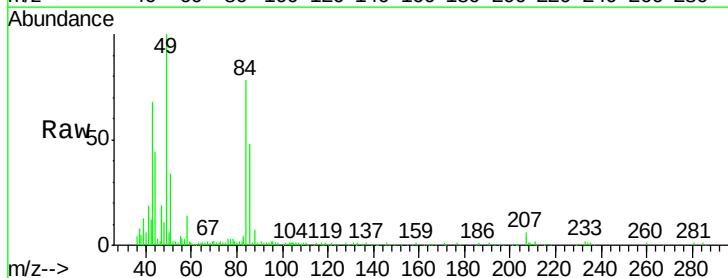
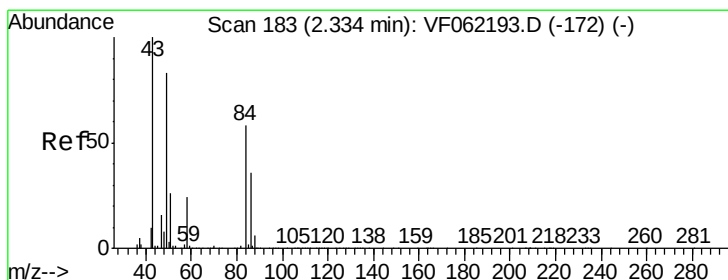
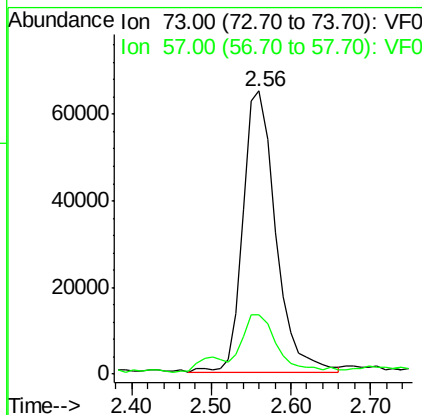
#19
Methyl tert-butyl Ether
Concen: 20.461 ug/l
RT: 2.56 min Scan# 206
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.1	15.1	22.7

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

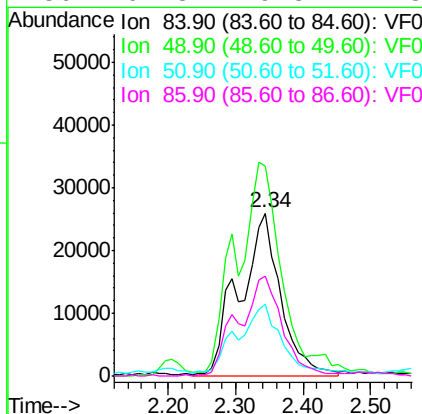
Manual Integrations
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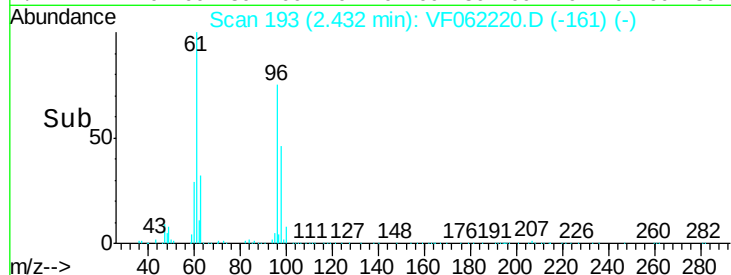
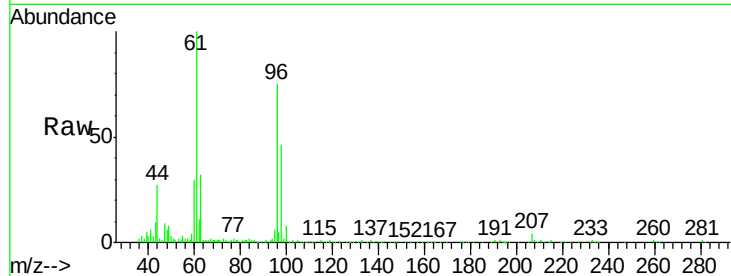
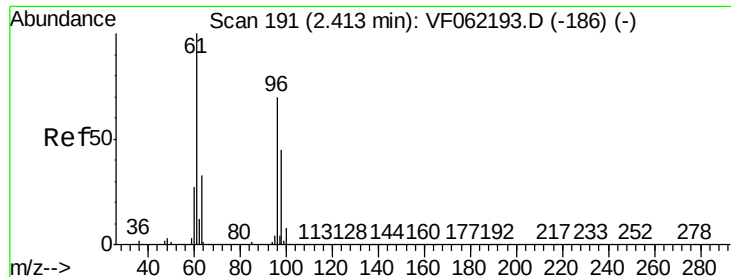
MMDadoda
4/23/2019 6:55:55 AM



#20
Methylene Chloride
Concen: 18.881 ug/l m
RT: 2.34 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
84	100		
49	129.0	114.0	171.0
51	44.4	37.0	55.4
86	61.3	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 18.734 ug/l

RT: 2.43 min Scan# 193

Delta R.T. 0.02 min

Lab File: VF062220.D

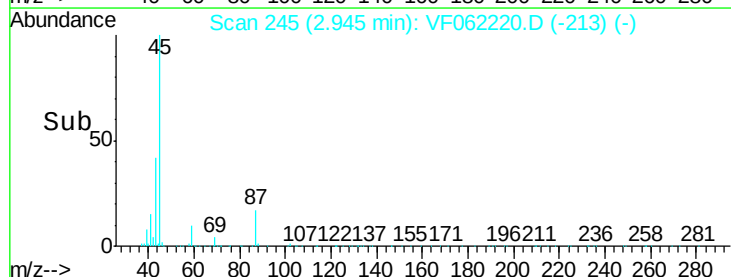
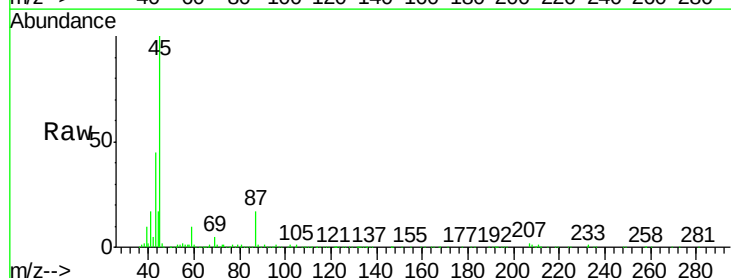
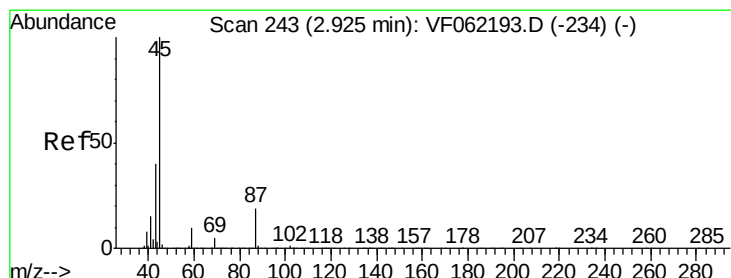
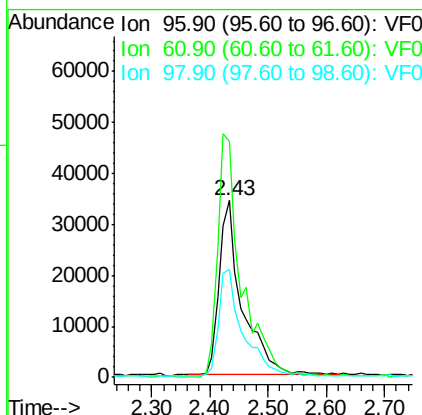
Acq: 19 Apr 2019 12:58

Tot Ion:	96	Resp:	94232
Ion	Ratio	Lower	Upper
96	100		
61	134.7	114.6	172.0
98	61.0	51.2	76.8

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

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#22

Diisopropyl ether

Concen: 18.219 ug/l

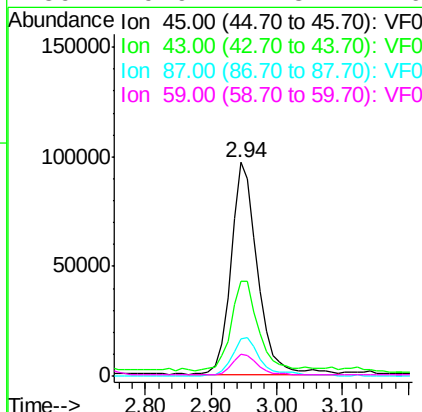
RT: 2.94 min Scan# 245

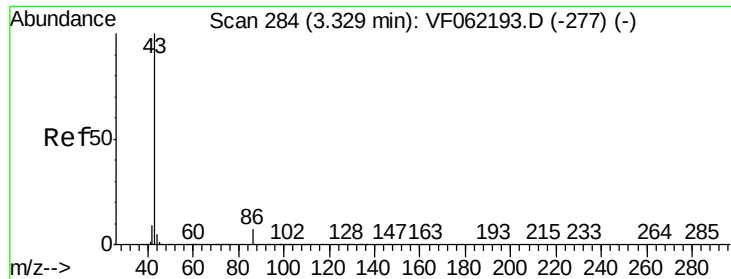
Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	45	Resp:	272045
Ion	Ratio	Lower	Upper
45	100		
43	41.9	32.8	49.2
87	17.6	15.2	22.8
59	9.9	7.8	11.6





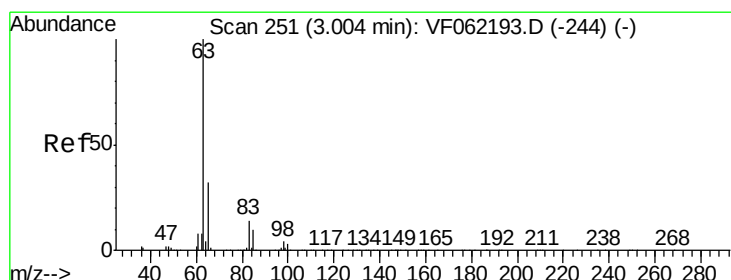
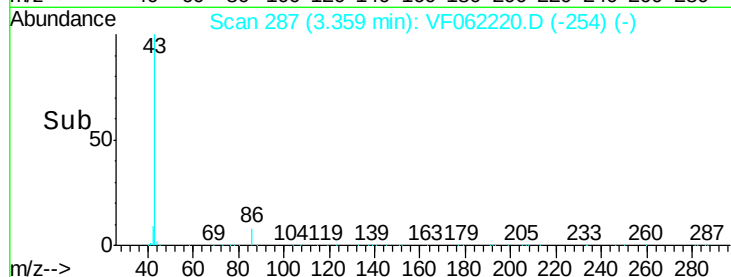
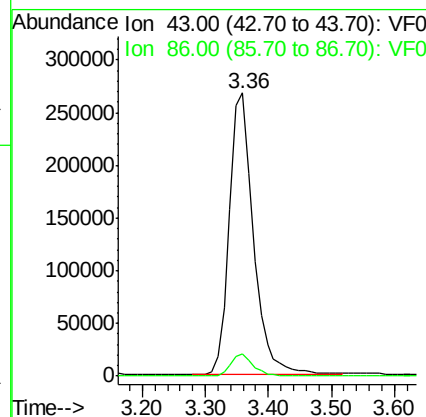
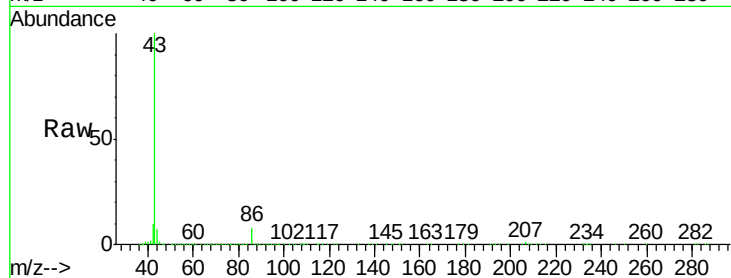
#23
 Vinyl Acetate
 Concen: 100.138 ug/l
 RT: 3.36 min Scan# 287
 Delta R.T. 0.03 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.9	8.9

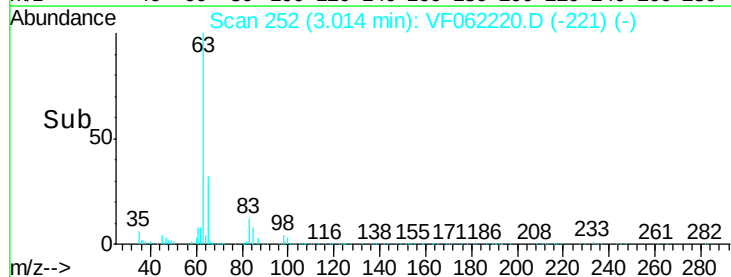
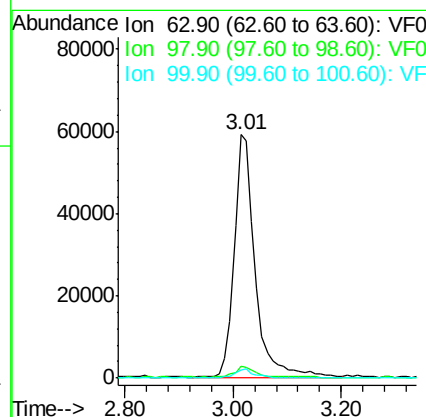
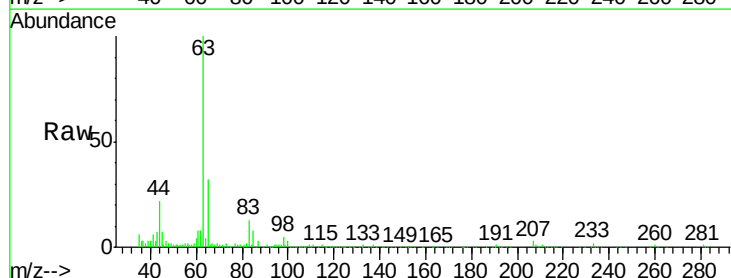
Manual Integrations
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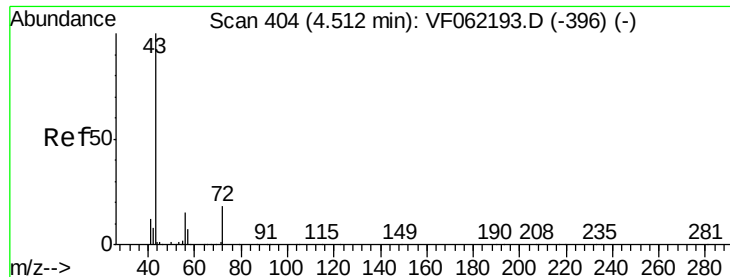
MMDadoda
 4/23/2019 6:55:55 AM



#24
 1,1-Dichloroethane
 Concen: 19.382 ug/l
 RT: 3.01 min Scan# 252
 Delta R.T. 0.01 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	3.1	1.7	5.0





#25

2-Butanone

Concen: 91.152 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 43 Resp: 182400

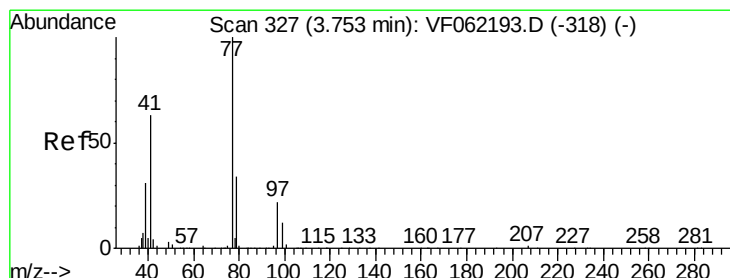
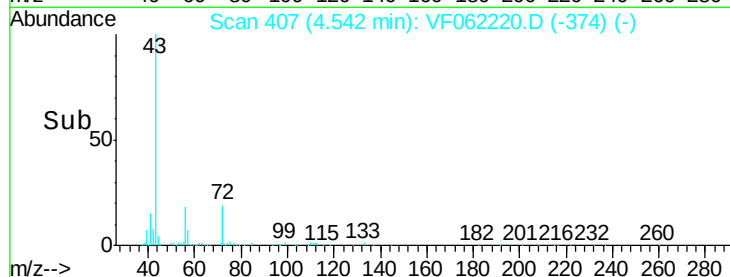
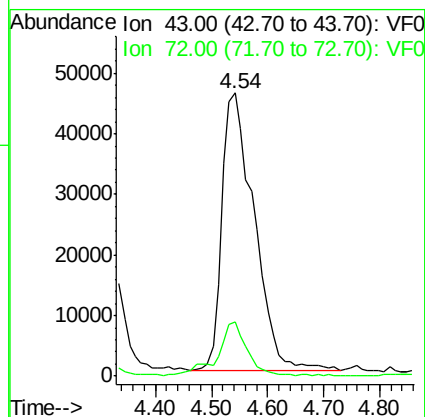
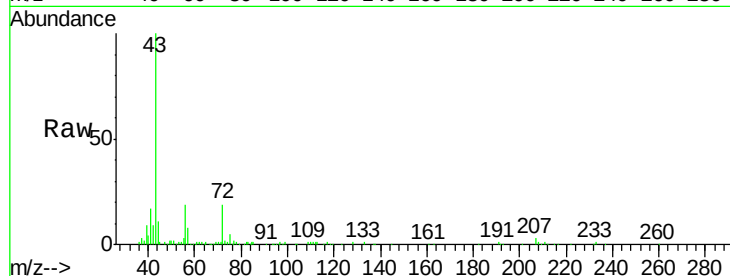
Ion Ratio Lower Upper

43 100

72 19.1 16.1 24.1

Manual Integrations
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4/23/2019 6:55:55 AM



#26

2,2-Dichloropropane

Concen: 20.261 ug/l

RT: 3.78 min Scan# 330

Delta R.T. 0.03 min

Lab File: VF062220.D

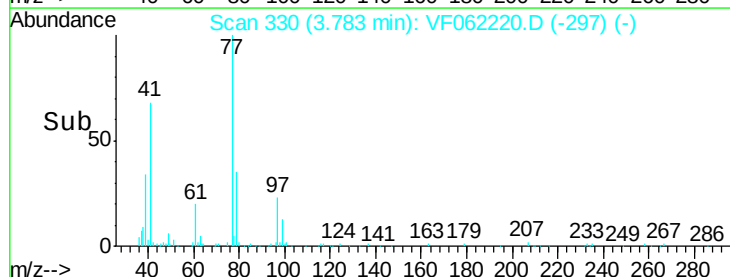
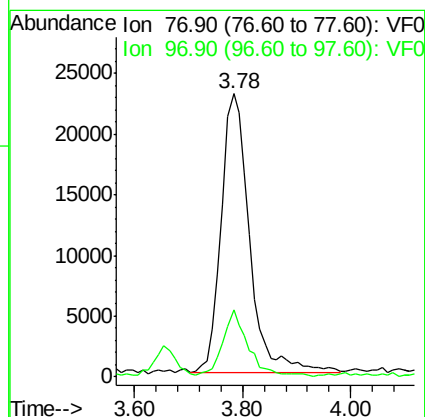
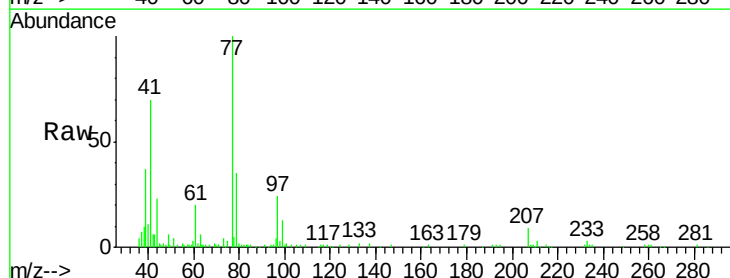
Acq: 19 Apr 2019 12:58

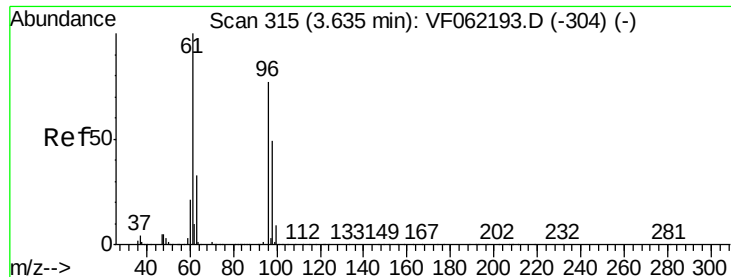
Tgt Ion: 77 Resp: 83555

Ion Ratio Lower Upper

77 100

97 19.9 11.1 33.3





#27

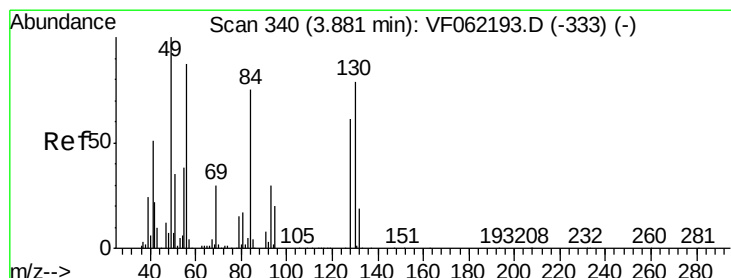
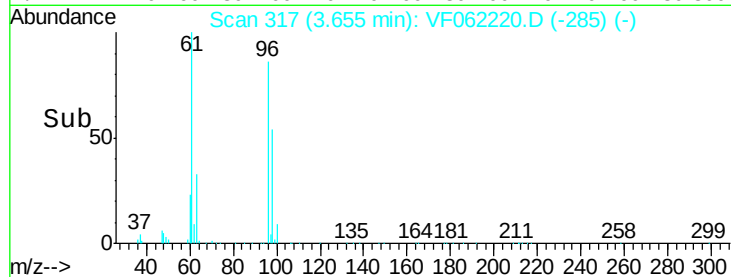
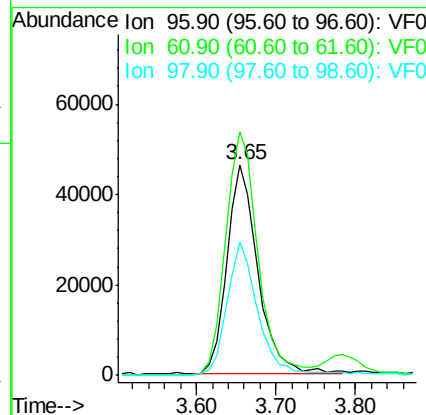
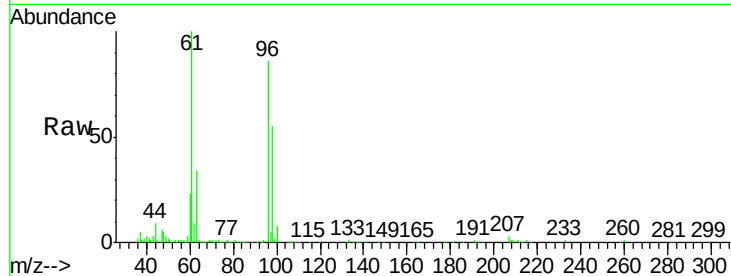
cis-1,2-Dichloroethene
Concen: 19.221 ug/l
RT: 3.65 min Scan# 317
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	125202		
61	122.1	0.0	253.6	
98	63.6	0.0	124.8	

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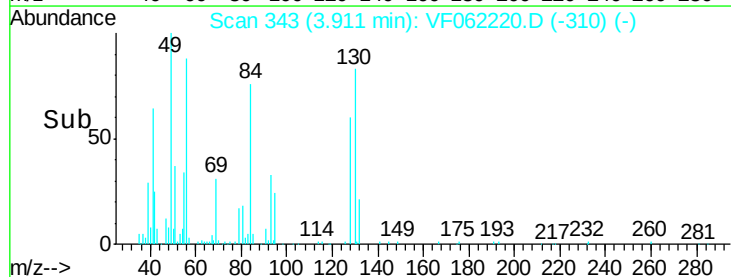
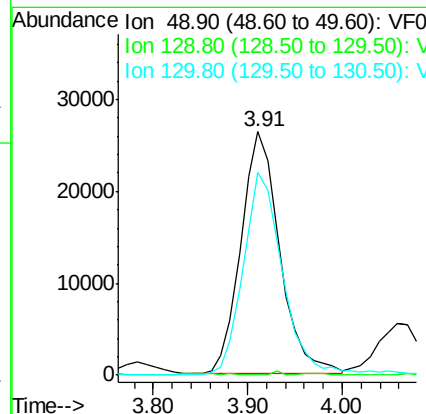
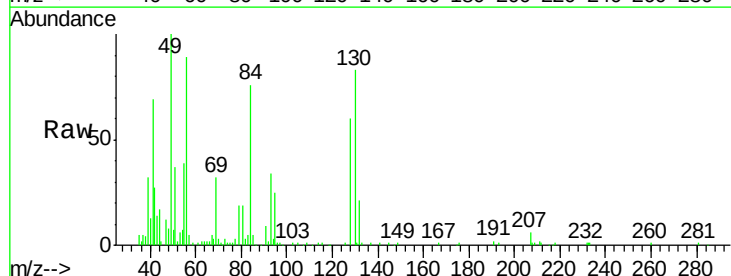
MMDadoda
4/23/2019 6:55:55 AM

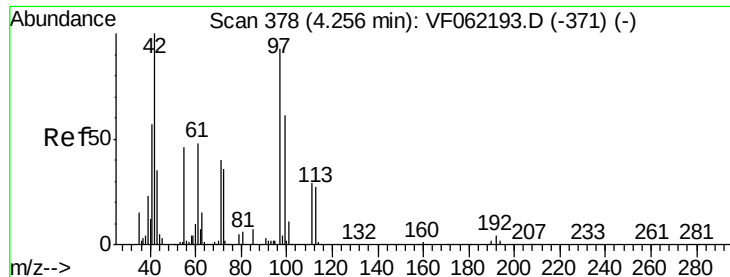


#28

Bromochloromethane
Concen: 19.208 ug/l
RT: 3.91 min Scan# 343
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	75155		
129	0.4	0.0	0.0#	
130	86.2	66.6	100.0	





#29

Tetrahydrofuran

Concen: 90.440 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

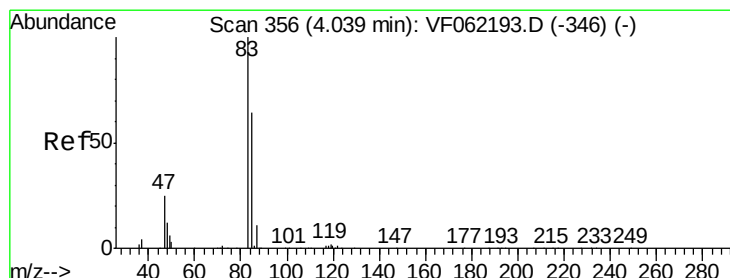
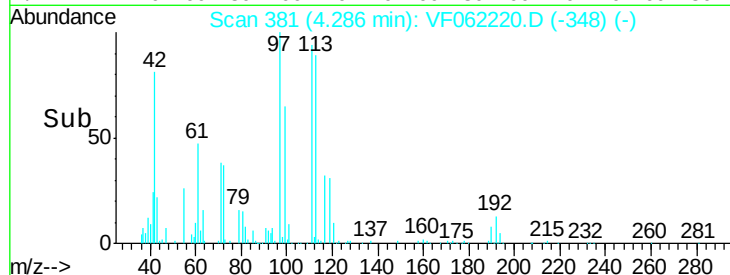
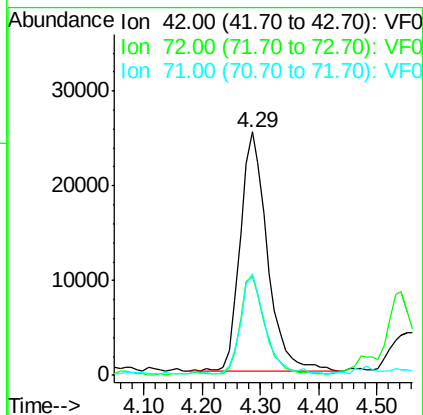
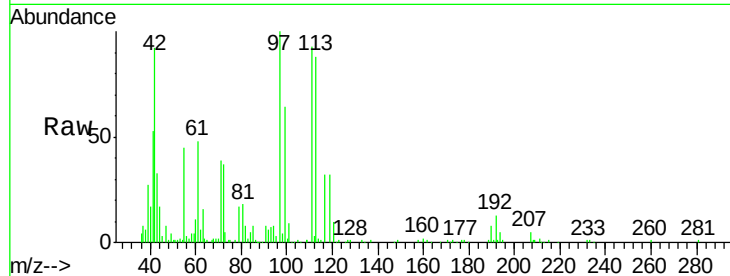
ClientSampleId :

VF0419SBS01

Tot Ion:	42	Resp:	81916
Ion Ratio		Lower	Upper
42	100		
72	37.1	28.6	43.0
71	39.7	29.2	43.8

Manual Integrations
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4/23/2019 6:55:55 AM



#30

Chloroform

Concen: 19.334 ug/l

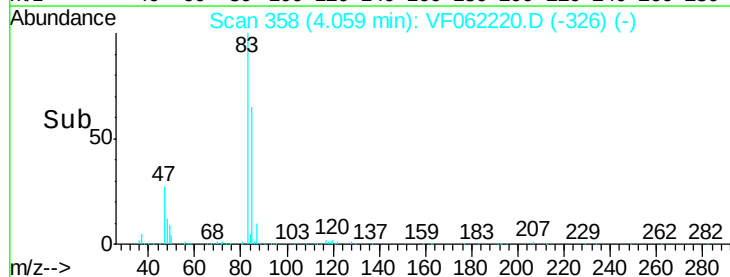
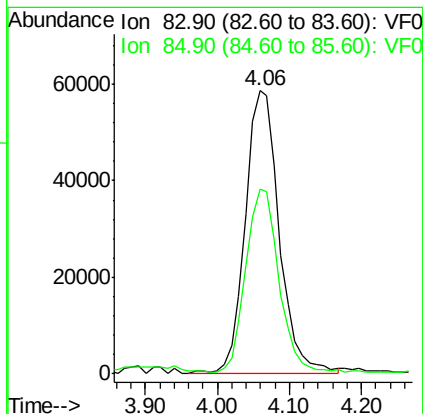
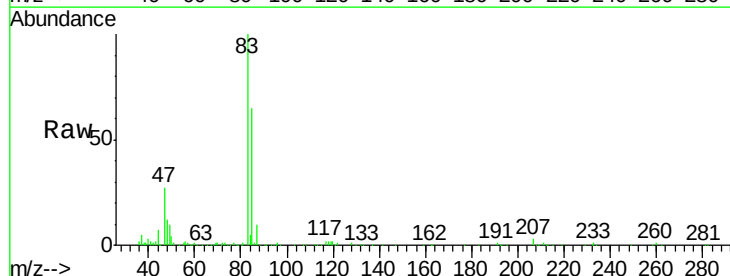
RT: 4.06 min Scan# 358

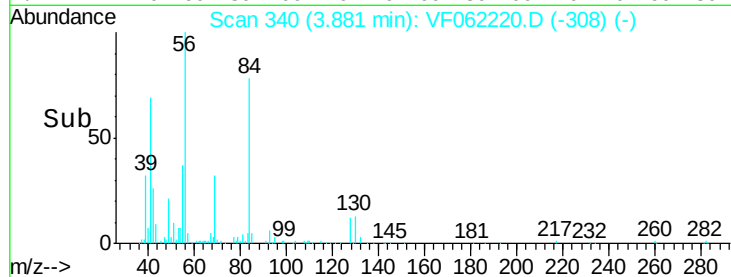
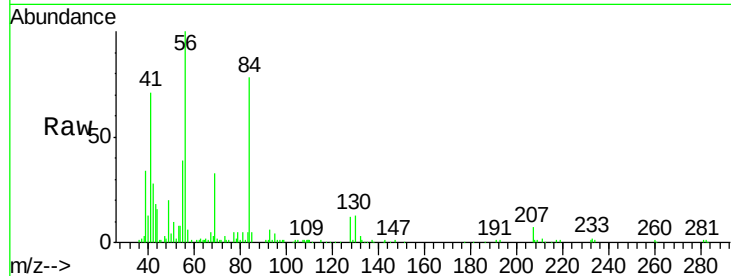
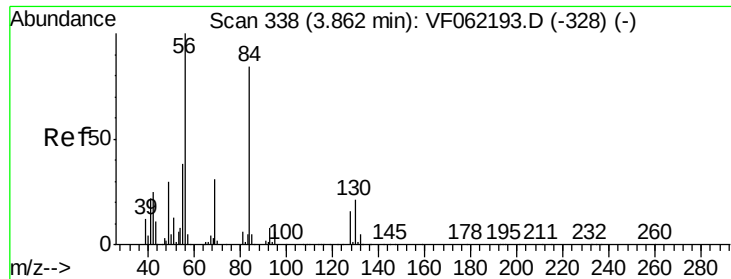
Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	83	Resp:	194081
Ion Ratio		Lower	Upper
83	100		
85	64.3	51.8	77.8





#31

Cyclohexane

Concen: 16.913 ug/l

RT: 3.88 min Scan# 340

Delta R.T. 0.02 min

Lab File: VF062220.D

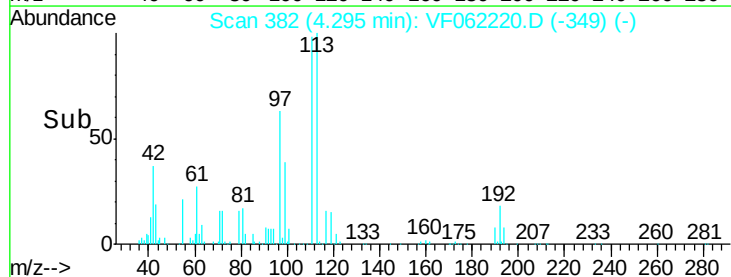
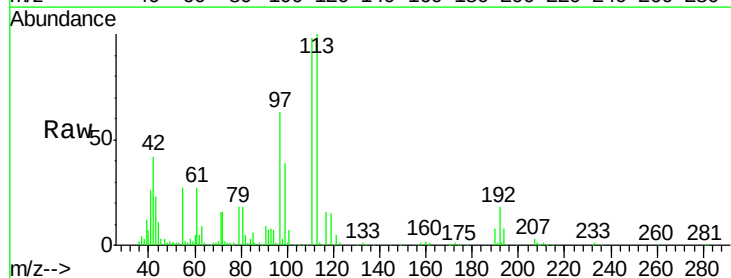
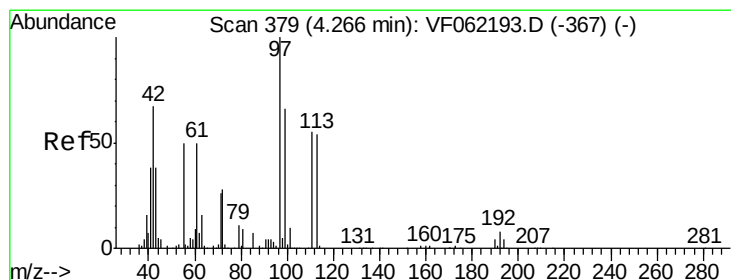
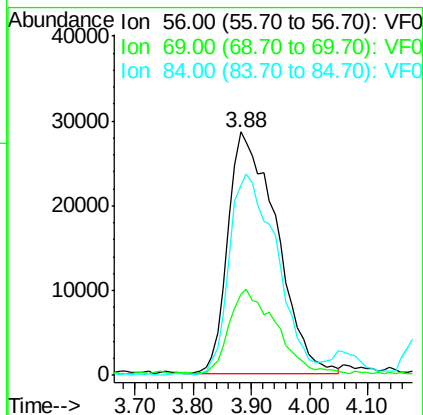
Acq: 19 Apr 2019 12:58

Tot Ion:	56	Resp:	165558
Ion Ratio	Lower	Upper	
56	100		
69	32.3	25.1	37.7
84	77.7	67.8	101.6

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Manual Integrations
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4/23/2019 6:55:55 AM



#32

1,1,1-Trichloroethane

Concen: 20.647 ug/l

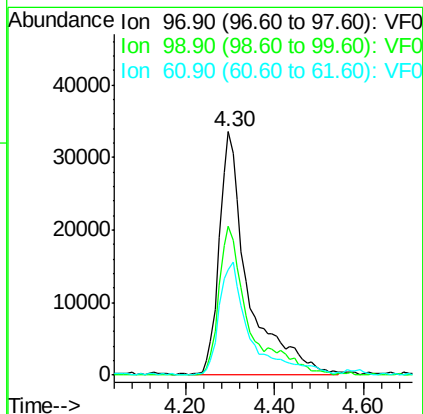
RT: 4.30 min Scan# 382

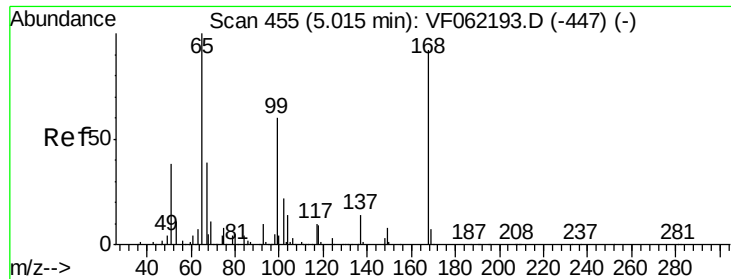
Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	97	Resp:	151711
Ion Ratio	Lower	Upper	
97	100		
99	62.9	52.7	79.1
61	49.6	53.0	79.4#





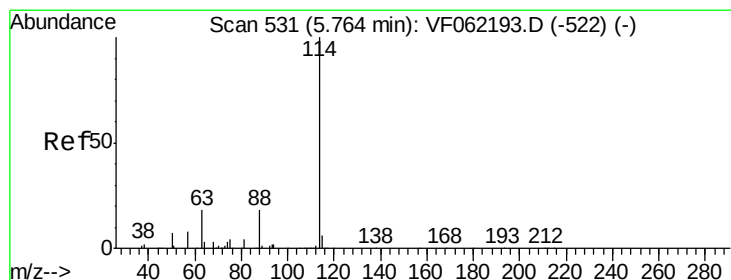
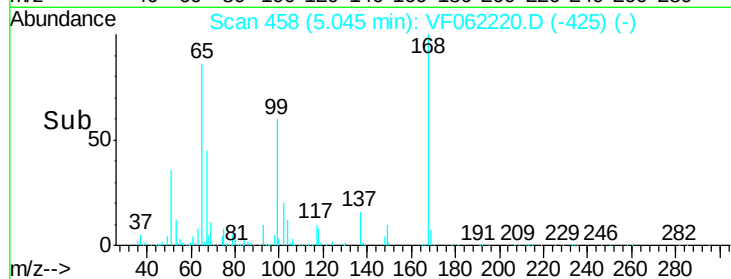
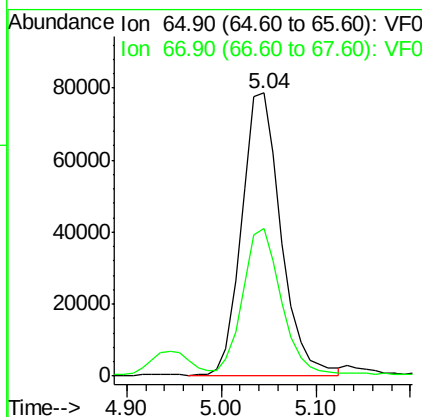
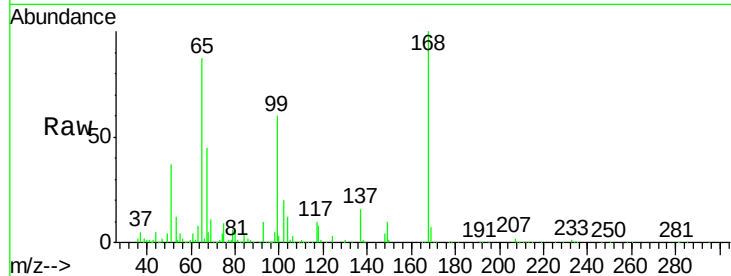
#33
 1,2-Dichloroethane-d4
 Concen: 53.593 ug/l
 RT: 5.04 min Scan# 458
 Delta R.T. 0.03 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	224381		
67	51.6	0.0	109.4	

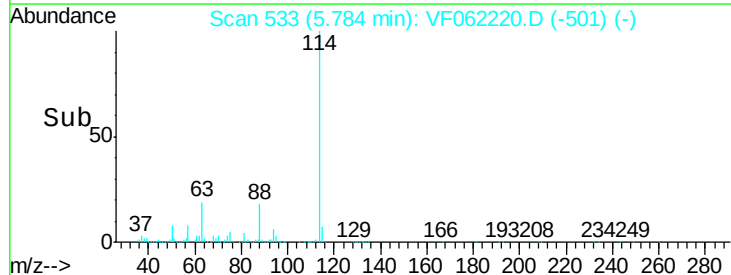
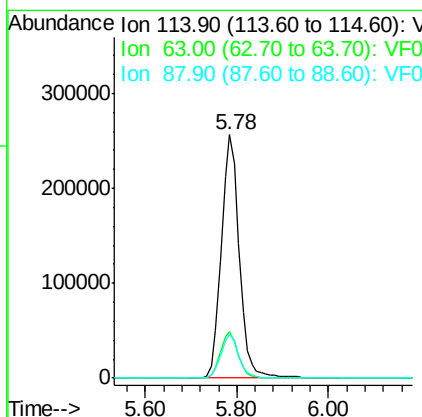
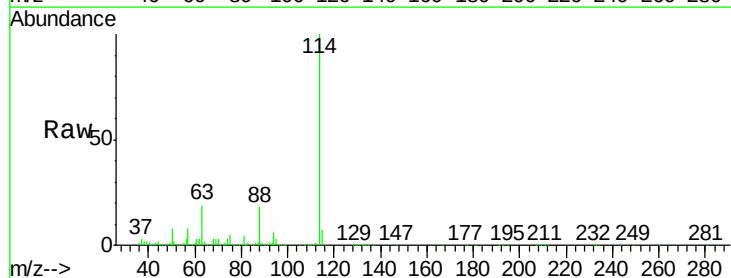
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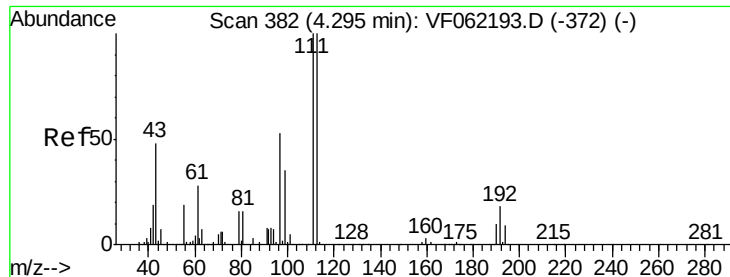
MMDadoda
 4/23/2019 6:55:55 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	695950		
63	19.0	0.0	36.6	
88	18.3	0.0	35.8	





#35

Dibromofluoromethane

Concen: 50.305 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

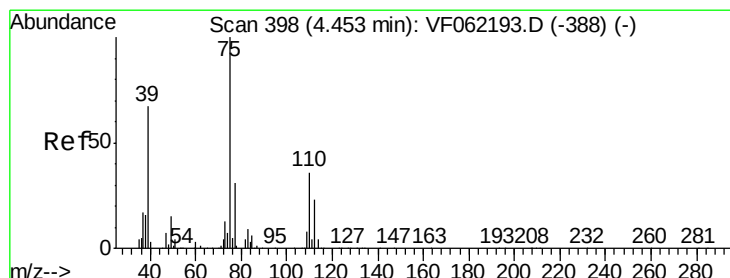
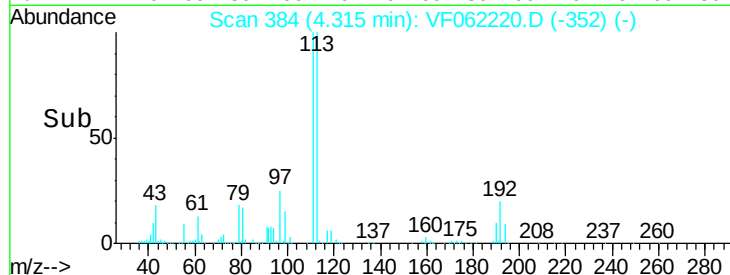
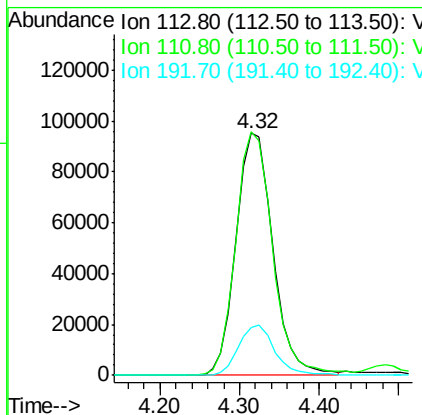
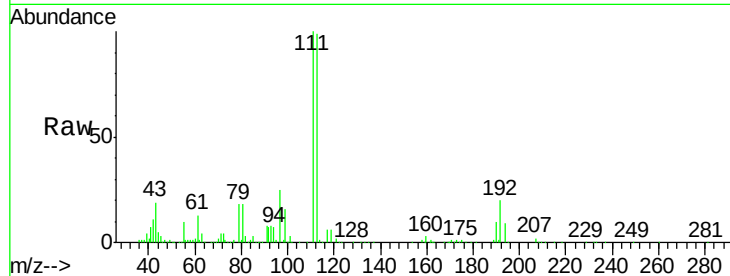
ClientSampleId :

VF0419SBS01

Tot Ion:	113	Resp:	306240
Ion	Ratio	Lower	Upper
113	100		
111	100.8	81.1	121.7
192	20.4	14.7	22.1

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4/23/2019 6:55:55 AM



#36

1,1-Dichloropropene

Concen: 17.270 ug/l

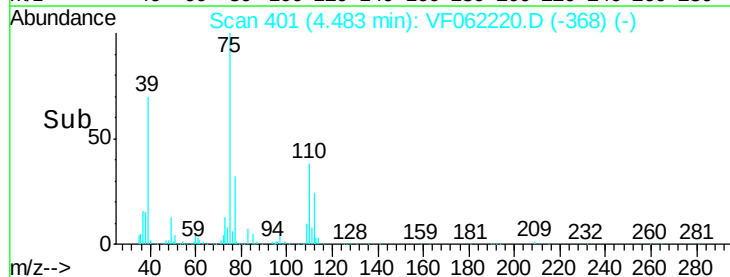
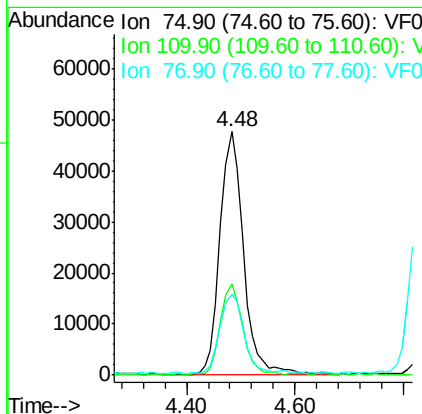
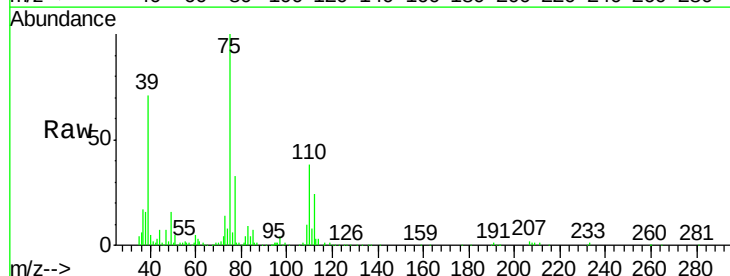
RT: 4.48 min Scan# 401

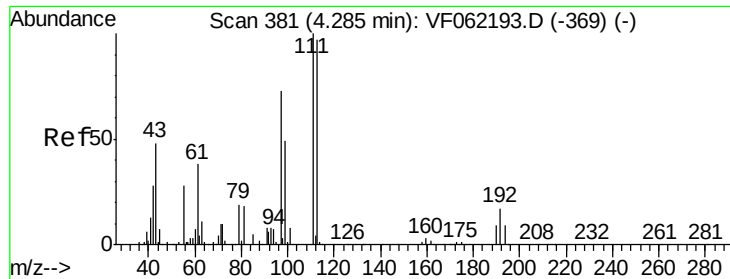
Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	75	Resp:	144104
Ion	Ratio	Lower	Upper
75	100		
110	36.4	18.4	55.2
77	33.0	25.4	38.2





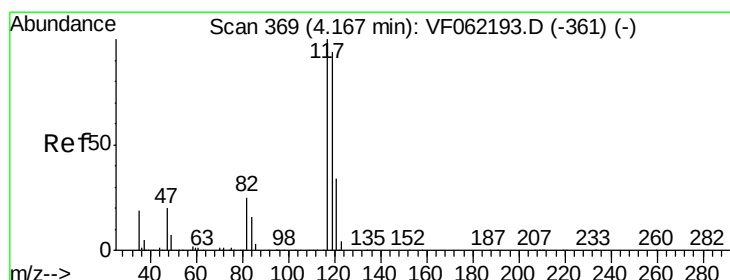
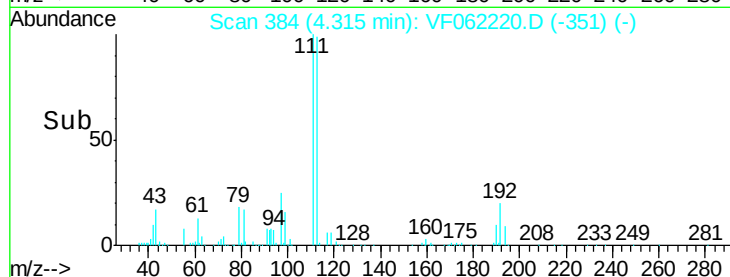
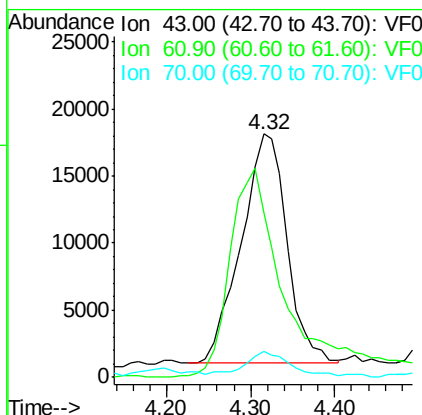
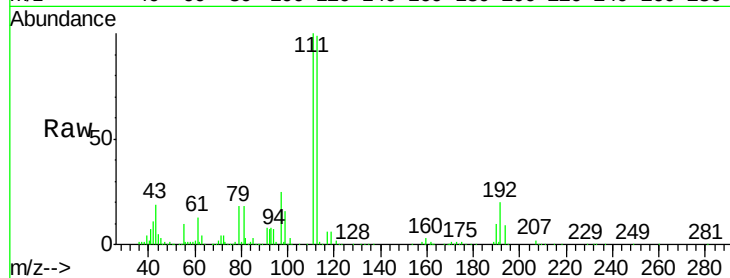
#37
Ethyl Acetate
Concen: 16.570 ug/l
RT: 4.32 min Scan# 384
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	115.3	0.0	0.0#
70	10.1	7.8	11.6

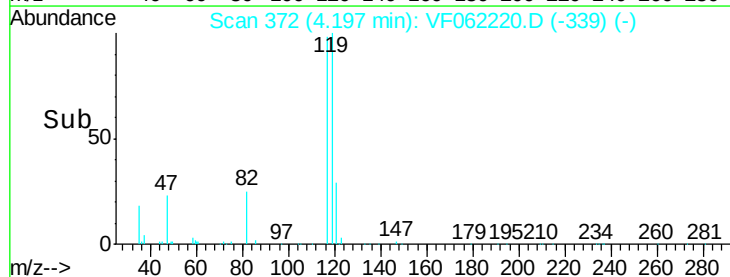
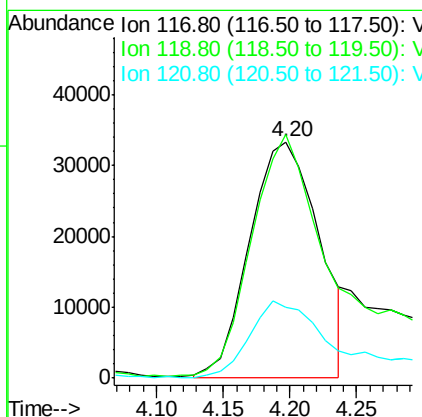
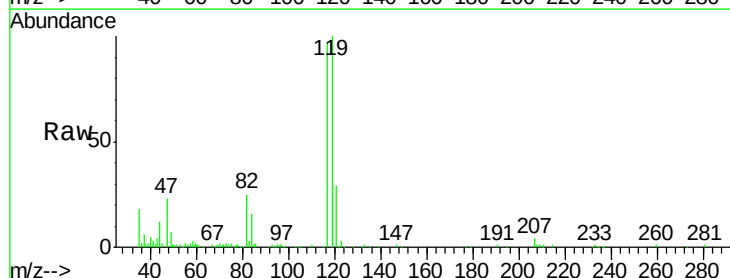
Manual Integrations
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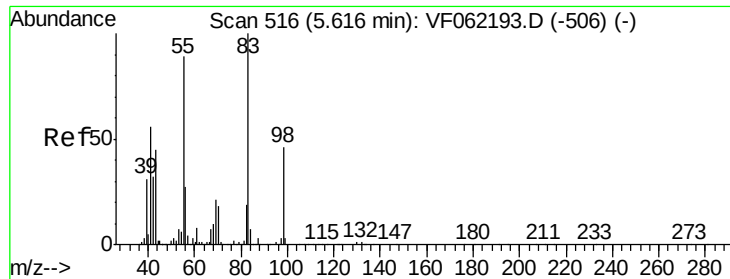
MMDadoda
4/23/2019 6:55:55 AM



#38
Carbon Tetrachloride
Concen: 16.377 ug/l m
RT: 4.20 min Scan# 372
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	103.0	75.0	112.4
121	30.1	26.9	40.3





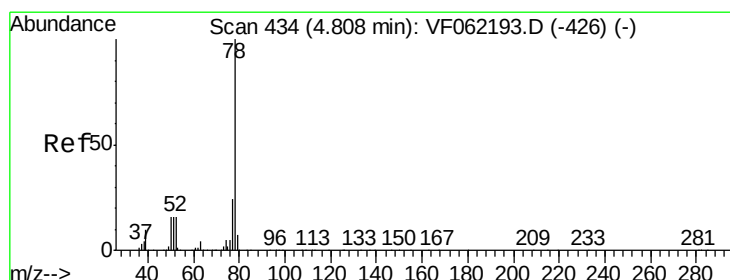
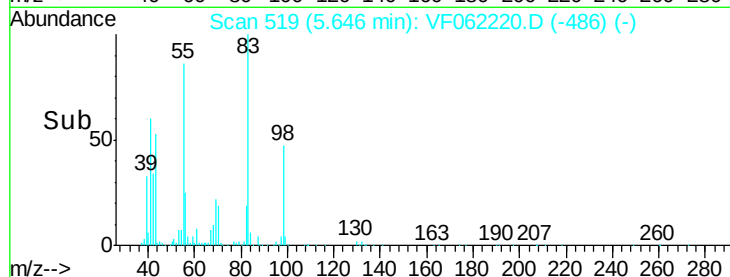
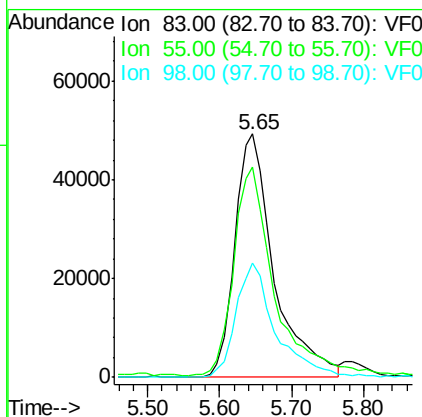
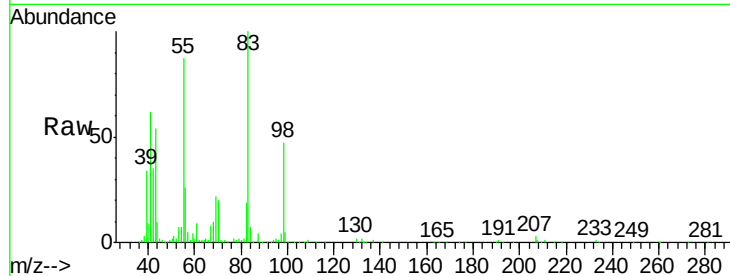
#39
Methylvlcyclohexane
Concen: 18.500 ug/l
RT: 5.65 min Scan# 519
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.0	71.0	106.6
98	46.6	36.7	55.1

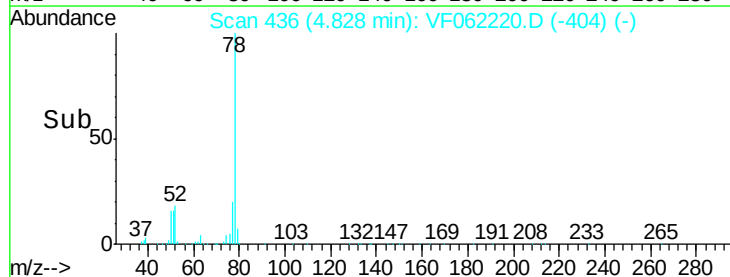
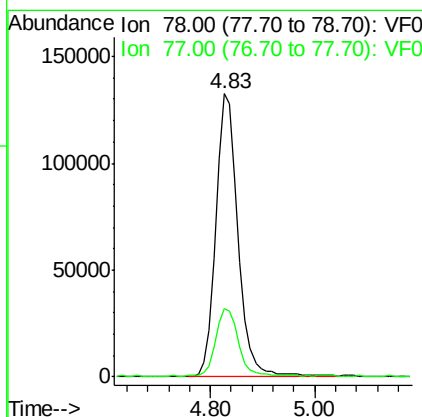
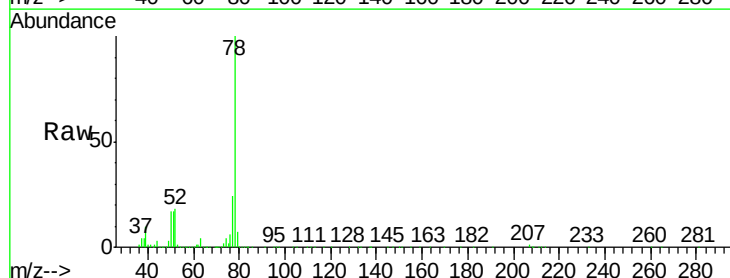
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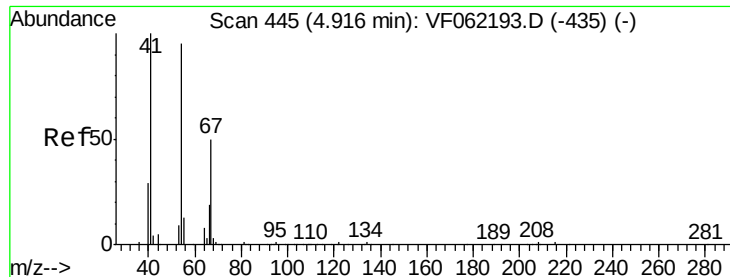
MMDadoda
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#40
Benzene
Concen: 17.834 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.9	28.3





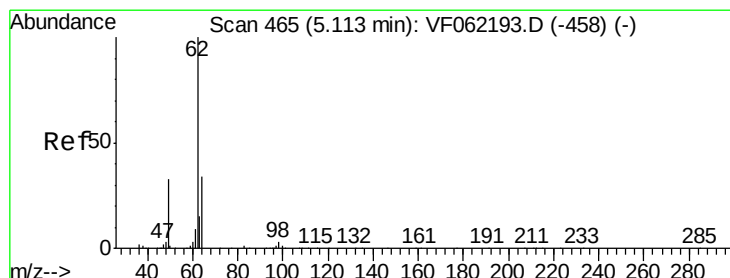
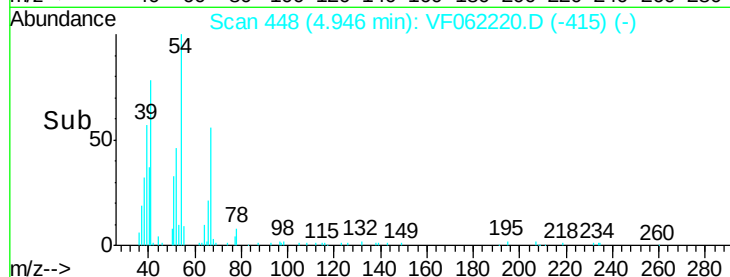
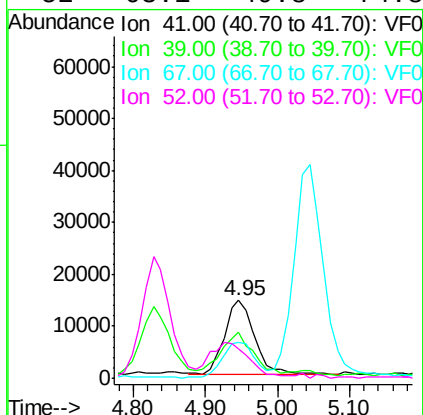
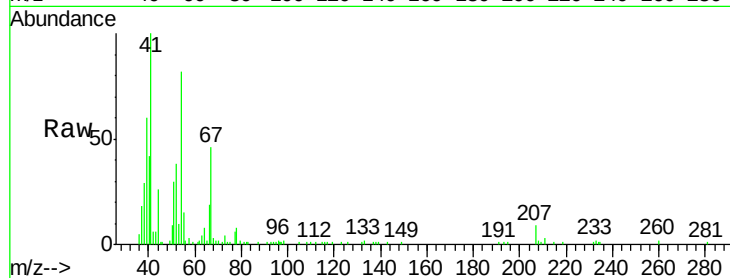
#41
Methacrylonitrile
Concen: 17.944 ug/l
RT: 4.95 min Scan# 448
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	62.2	44.7	67.1	
67	51.5	39.1	58.7	
52	63.1	49.8	74.8	

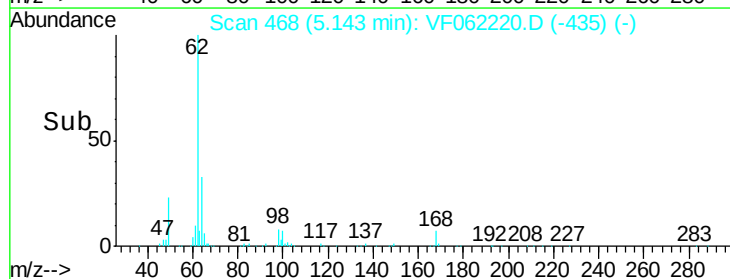
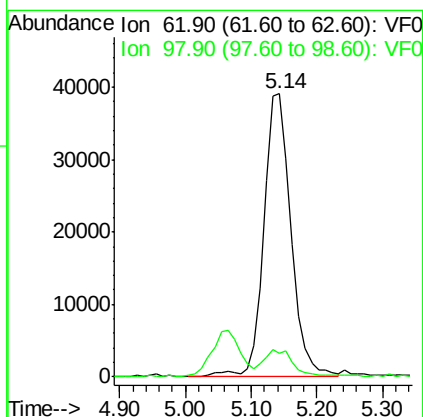
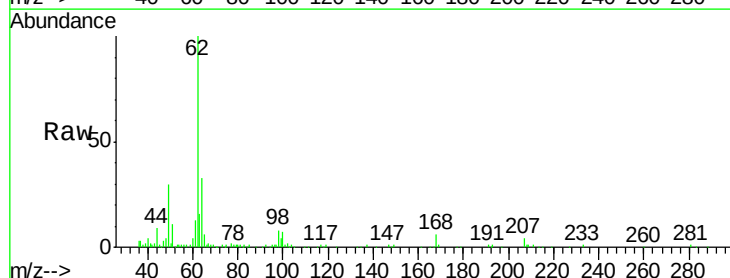
Manual Integrations
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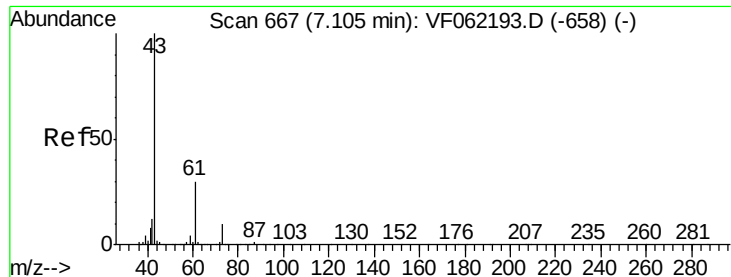
MMDadoda
4/23/2019 6:55:55 AM



#42
1,2-Dichloroethane
Concen: 19.586 ug/l
RT: 5.14 min Scan# 468
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.2	0.0	19.0	





#43

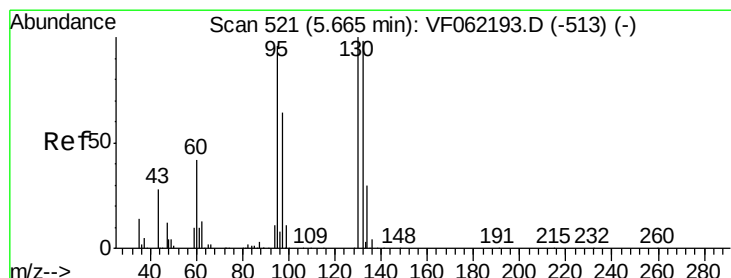
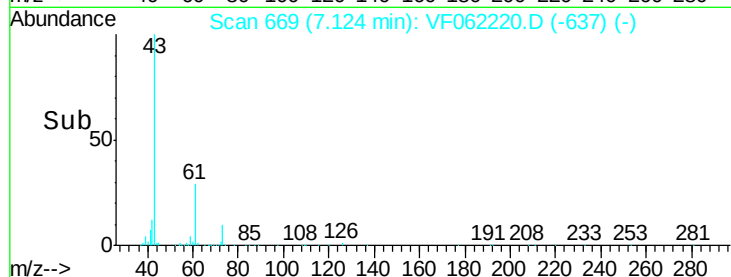
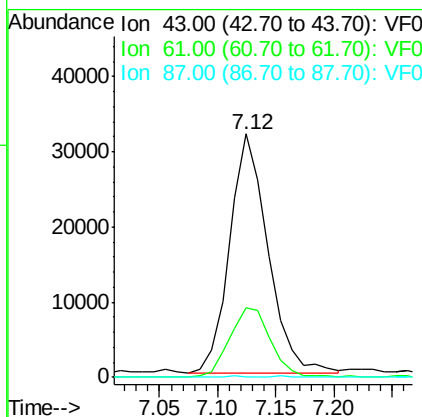
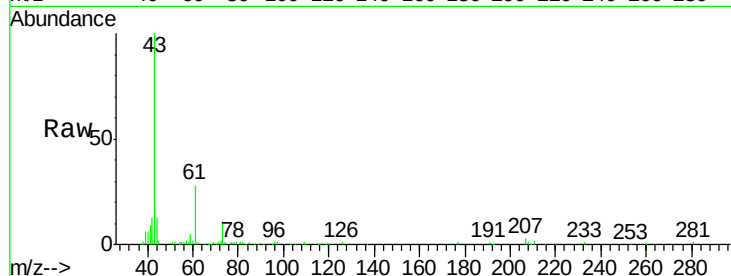
Isopropyl Acetate
 Concen: 17.427 ug/l
 RT: 7.12 min Scan# 669
 Delta R.T. 0.02 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	43	Resp	72167
Ion	Ratio	Lower	Upper
43	100		
61	31.3	24.4	36.6
87	0.4	0.4	0.6

Manual Integrations
 APPROVED

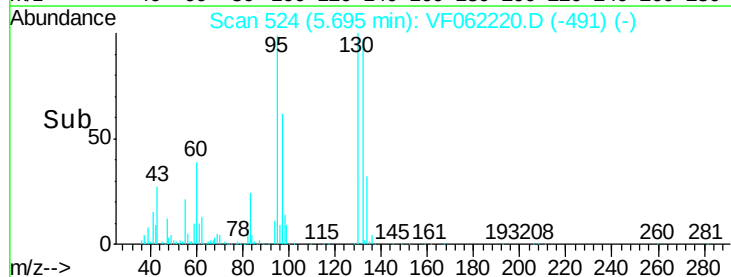
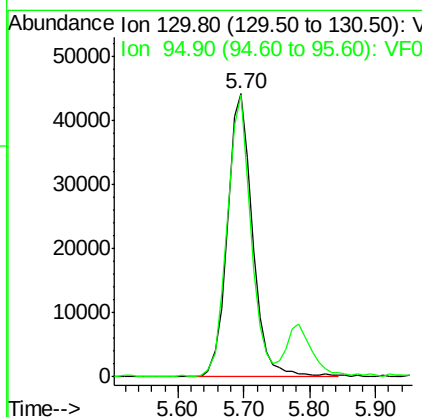
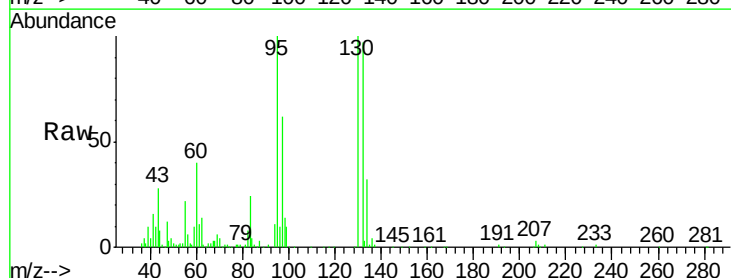
MMDadoda
 4/23/2019 6:55:55 AM

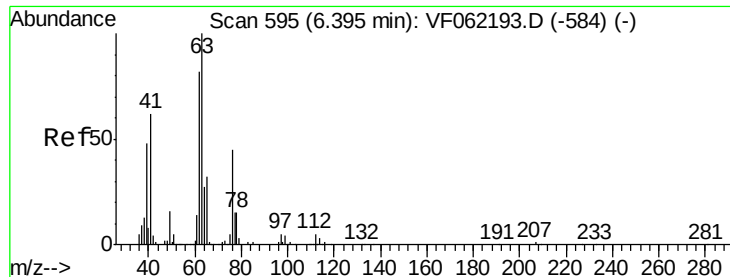


#44

Trichloroethene
 Concen: 20.047 ug/l
 RT: 5.70 min Scan# 524
 Delta R.T. 0.03 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Tgt Ion	130	Resp	118557
Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	191.4





#45

1,2-Dichloropropane

Concen: 18.825 ug/l

RT: 6.41 min Scan# 597

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 63 Resp: 90752

Ion Ratio Lower Upper

63 100

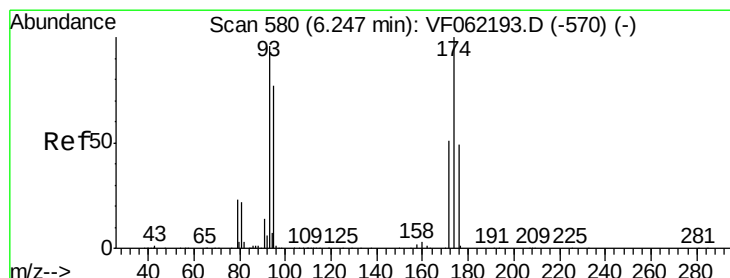
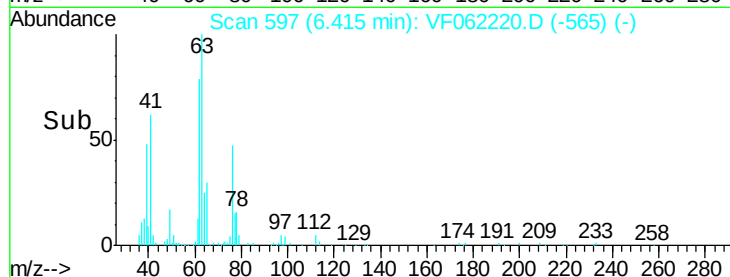
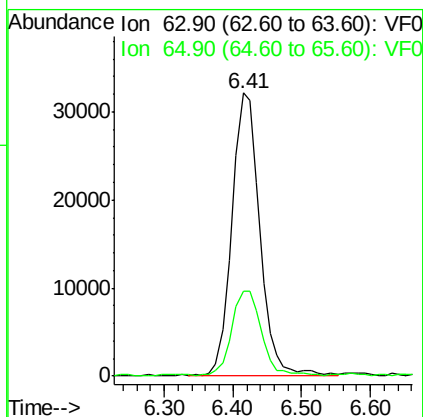
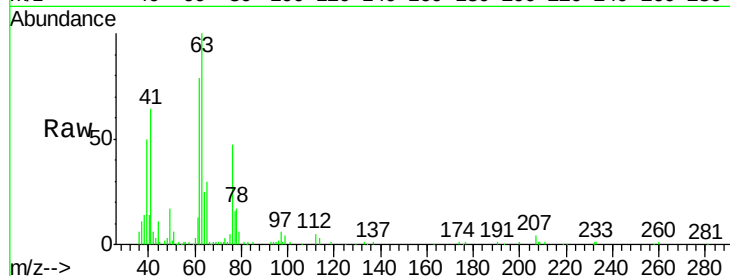
65 29.6 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

4/23/2019 6:55:55 AM



#46

Dibromomethane

Concen: 19.325 ug/l

RT: 6.27 min Scan# 582

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

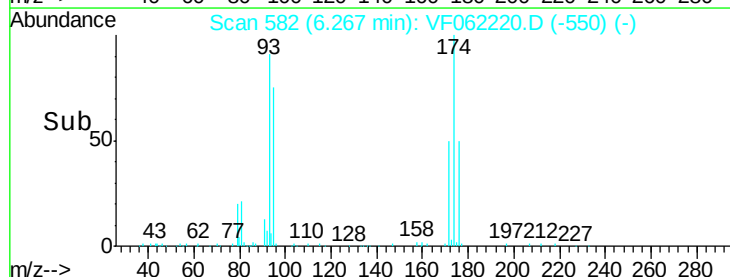
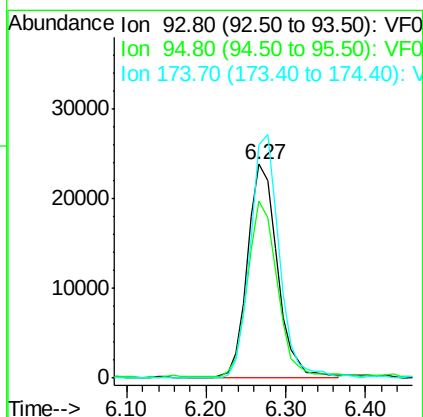
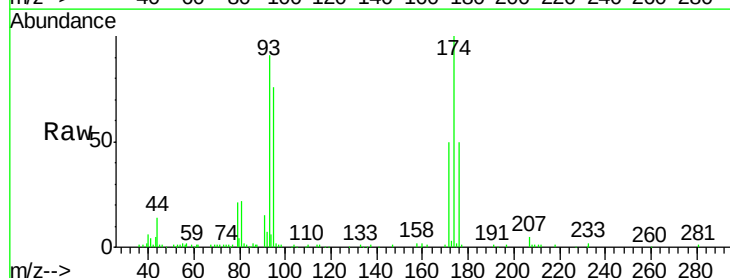
Tgt Ion: 93 Resp: 61983

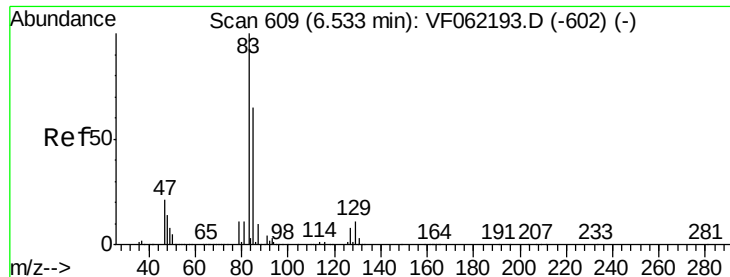
Ion Ratio Lower Upper

93 100

95 79.8 65.1 97.7

174 110.1 81.8 122.6





#47

Bromodichloromethane

Concen: 18.741 ug/l

RT: 6.56 min Scan# 612

Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

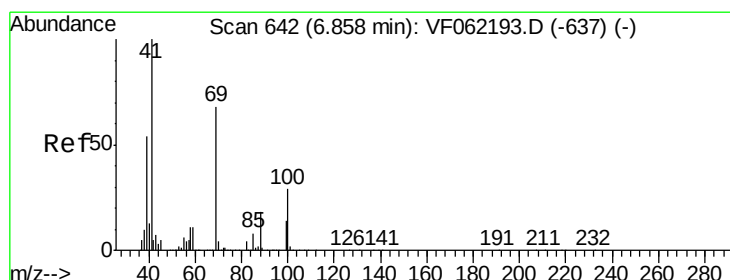
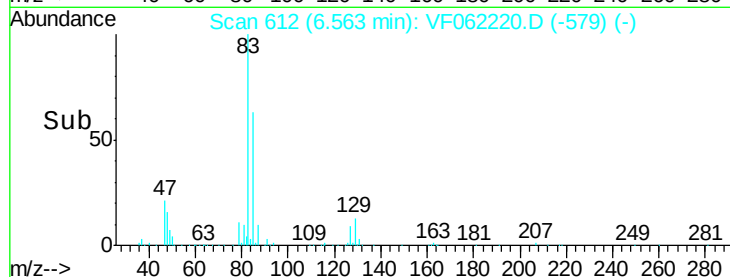
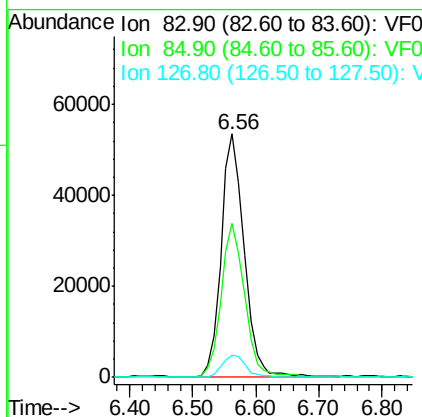
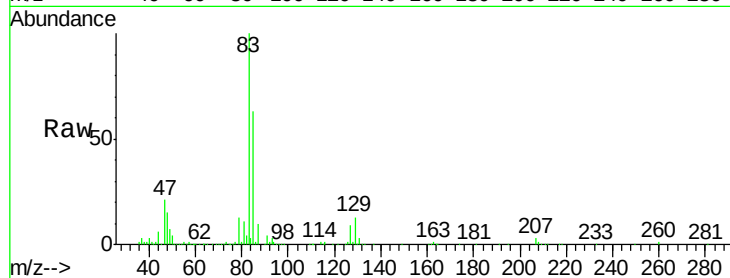
ClientSampleId :

VF0419SBS01

Tot Ion:	83	Resp:	135647
Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.2	78.4
127	9.2	6.7	10.1

Manual Integrations
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MMDadoda
4/23/2019 6:55:55 AM



#48

Methyl methacrylate

Concen: 17.835 ug/l

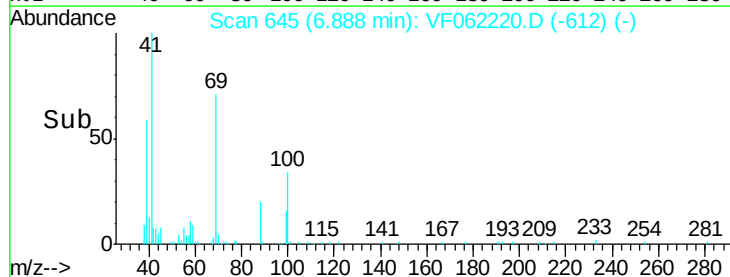
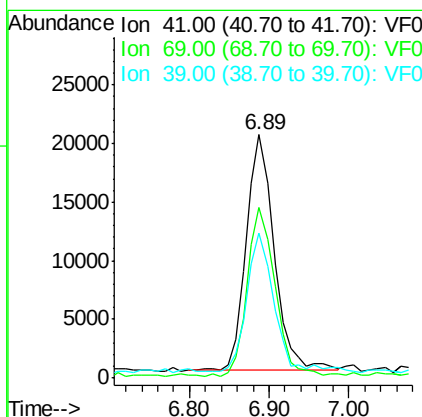
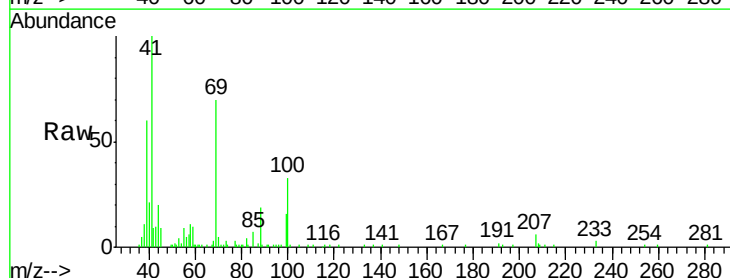
RT: 6.89 min Scan# 645

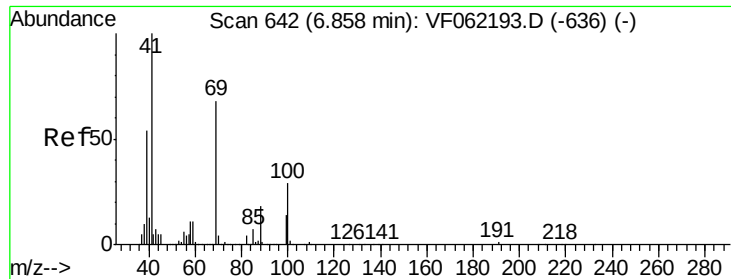
Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	41	Resp:	48539
Ion	Ratio	Lower	Upper
41	100		
69	72.1	54.9	82.3
39	57.9	43.6	65.4





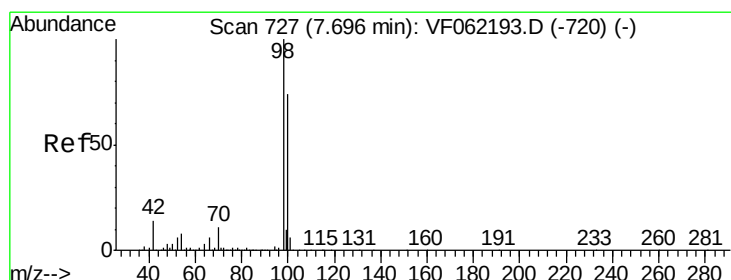
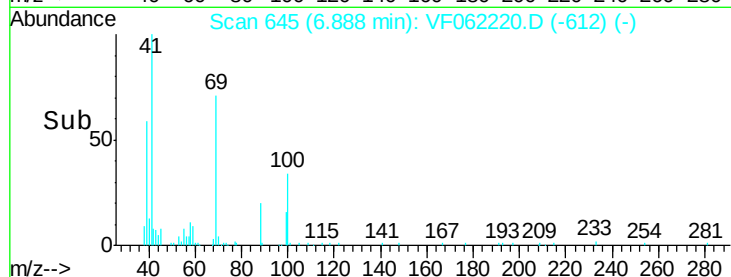
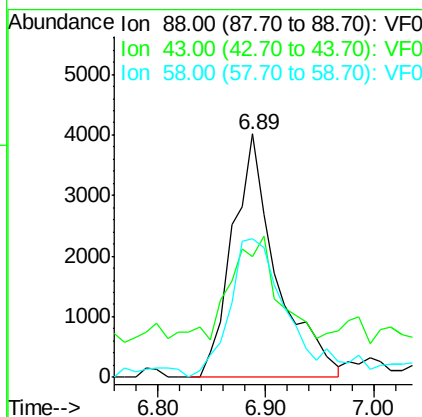
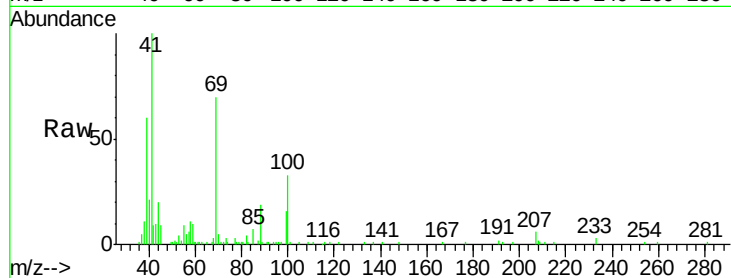
#49
1,4-Dioxane
Concen: 363.903 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	11358		
43	42.8		36.9	55.3
58	77.5		56.8	85.2

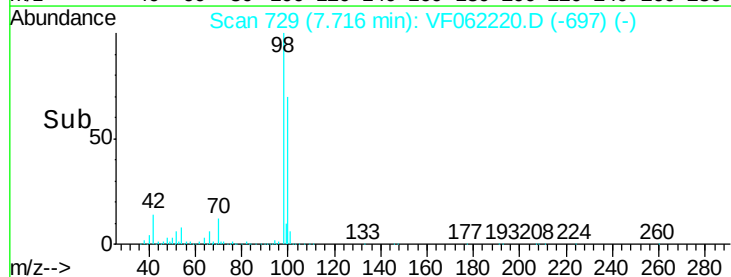
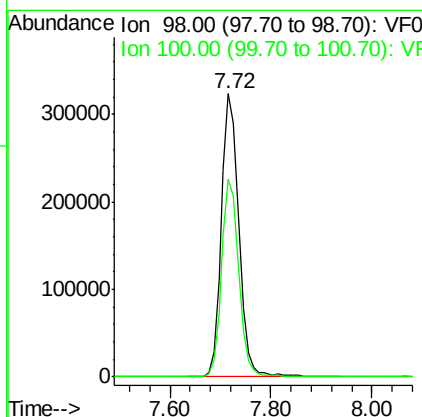
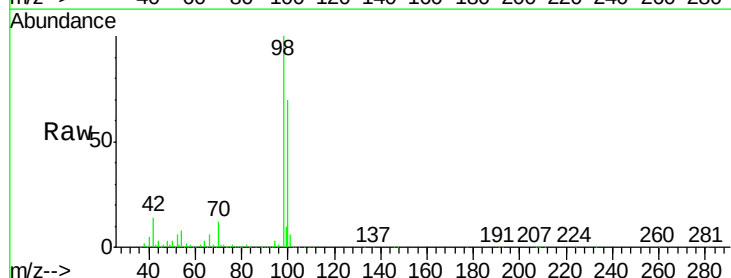
Manual Integrations
APPROVED

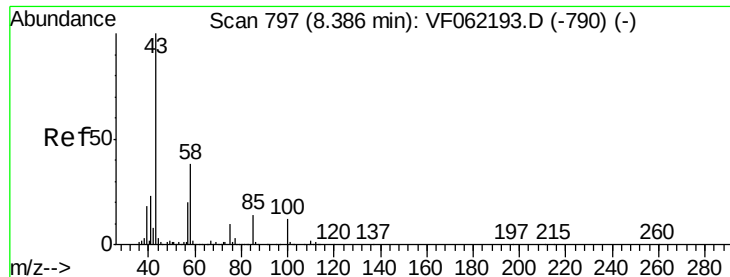
MMDadoda
4/23/2019 6:55:55 AM



#50
Toluene-d8
Concen: 50.888 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	784189		
100	68.7		56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 92.614 ug/l

RT: 8.42 min Scan# 800

Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 43 Resp: 285264

Ion Ratio Lower Upper

43 100

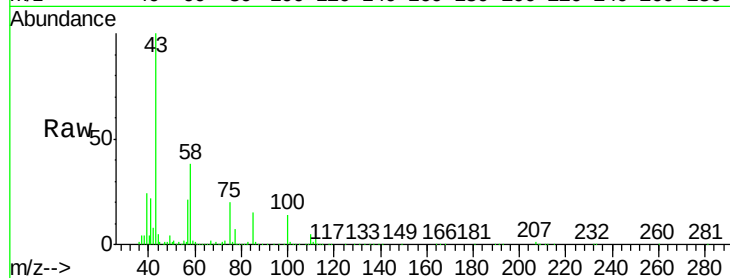
58 37.1 29.3 43.9

Manual Integrations

APPROVED

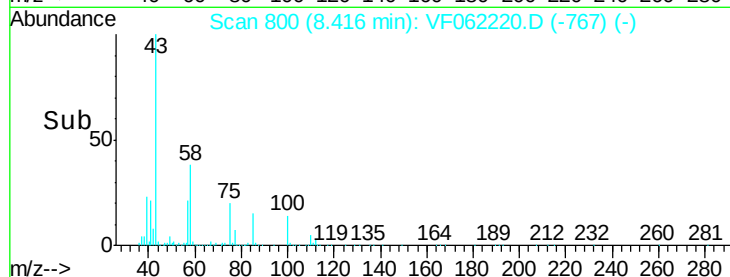
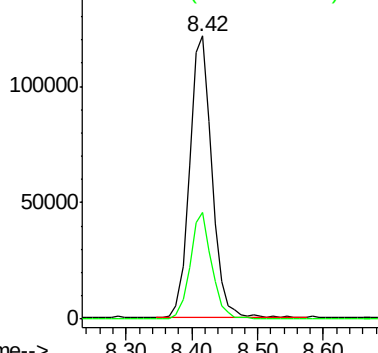
MMDadoda

4/23/2019 6:55:55 AM

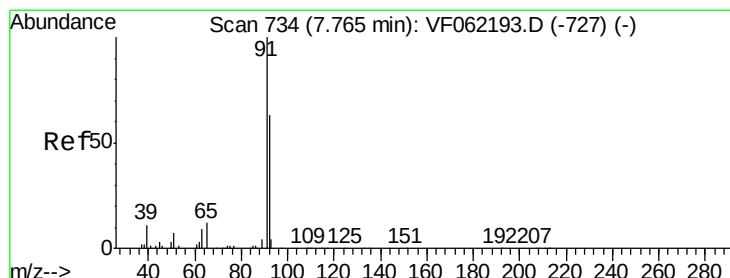


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#52

Toluene

Concen: 18.842 ug/l

RT: 7.78 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF062220.D

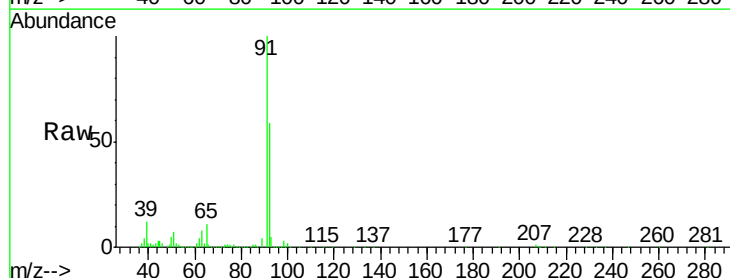
Acq: 19 Apr 2019 12:58

Tgt Ion: 92 Resp: 217375

Ion Ratio Lower Upper

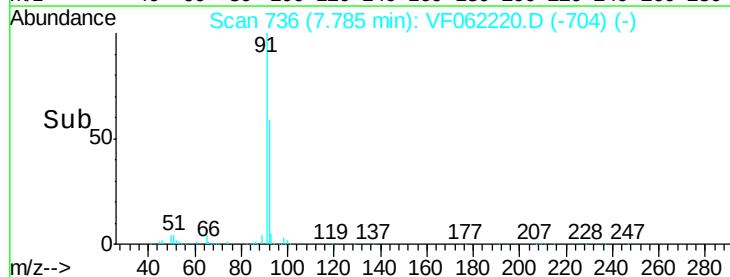
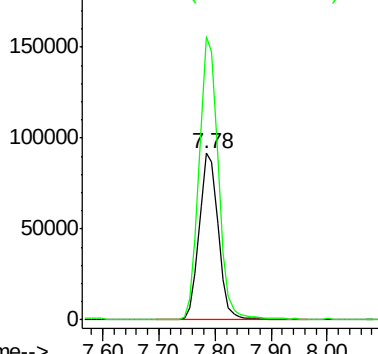
92 100

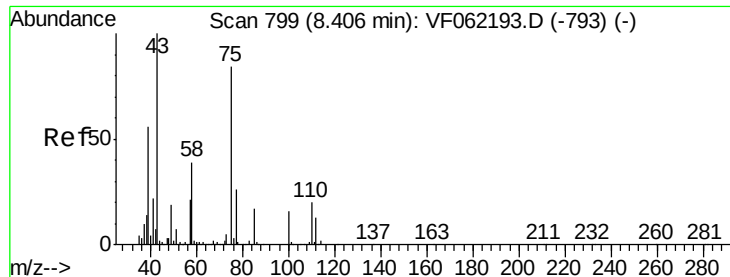
91 170.2 130.1 195.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





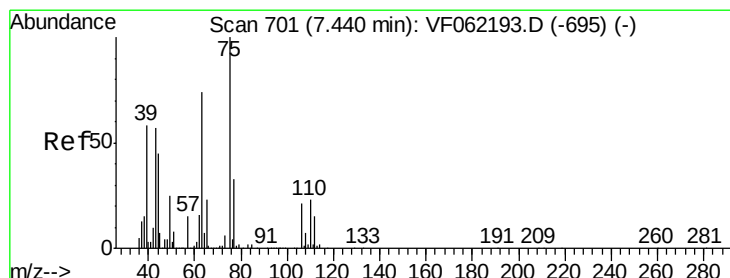
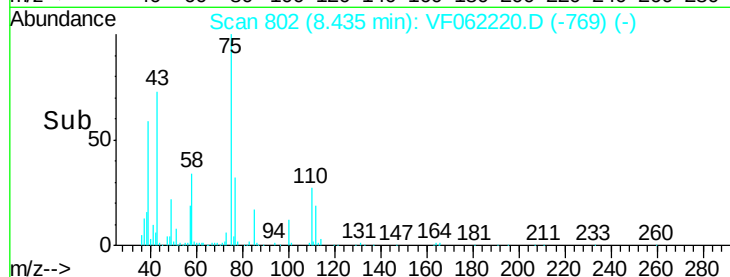
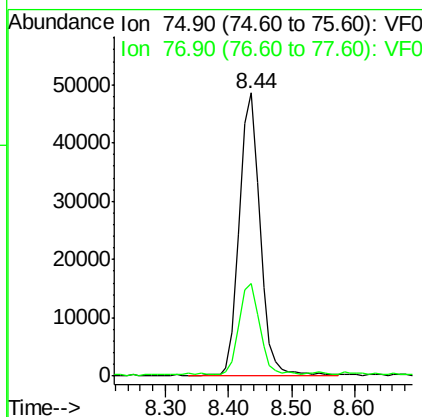
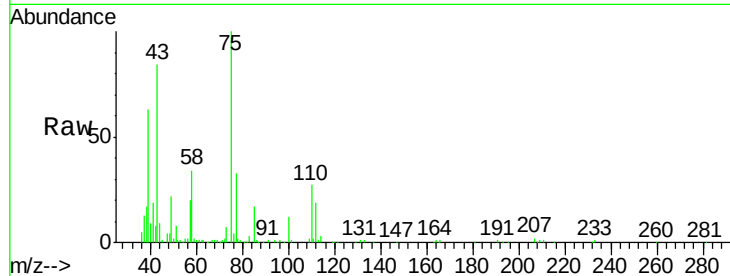
#53
t-1,3-Dichloropropene
Concen: 20.186 ug/l
RT: 8.44 min Scan# 802
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.6	36.8

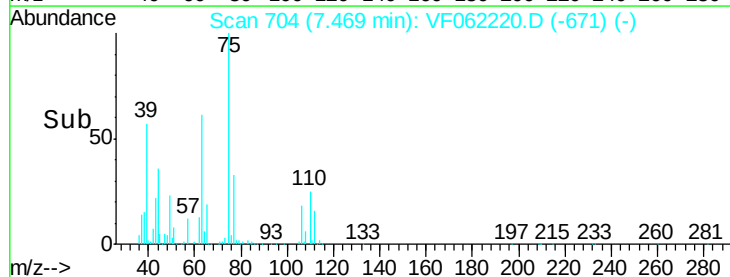
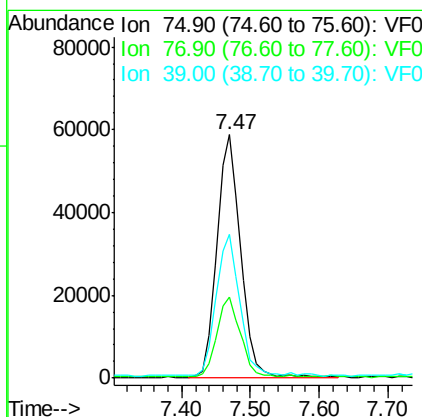
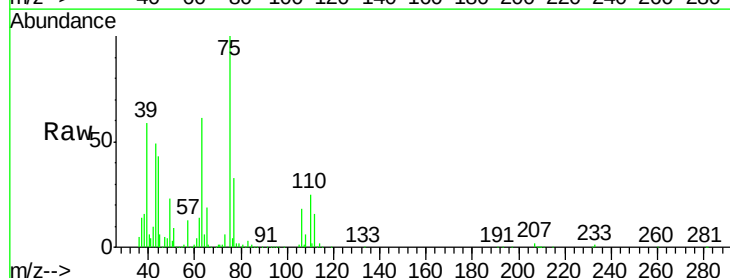
Manual Integrations
APPROVED

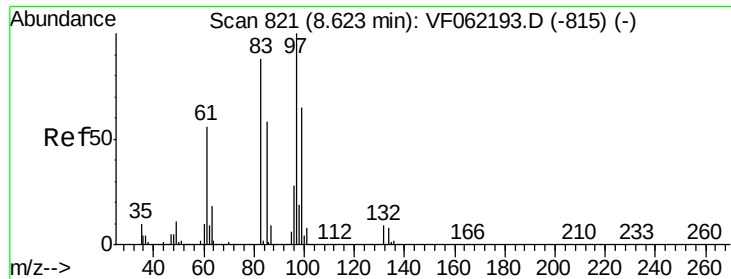
MMDadoda
4/23/2019 6:55:55 AM



#54
cis-1,3-Dichloropropene
Concen: 19.269 ug/l
RT: 7.47 min Scan# 704
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.8	26.4	39.6
39	57.8	46.7	70.1





#55

1,1,2-Trichloroethane

Concen: 20.165 ug/l

RT: 8.64 min Scan# 823

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

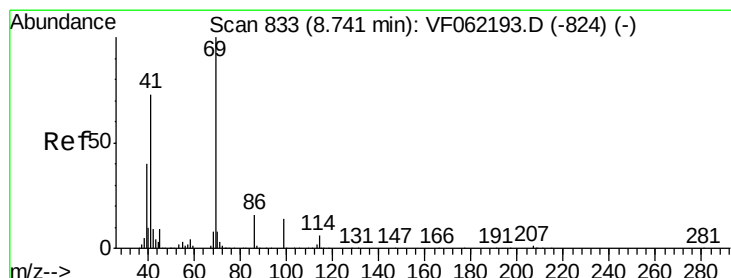
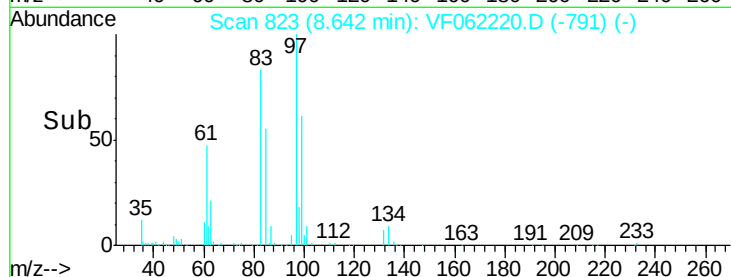
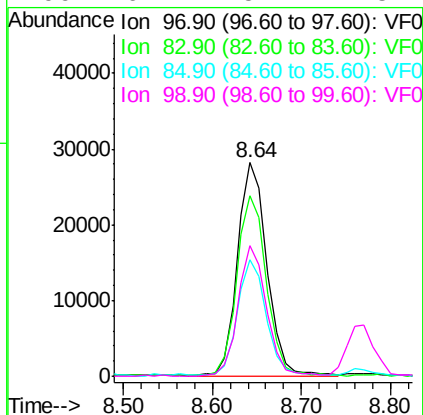
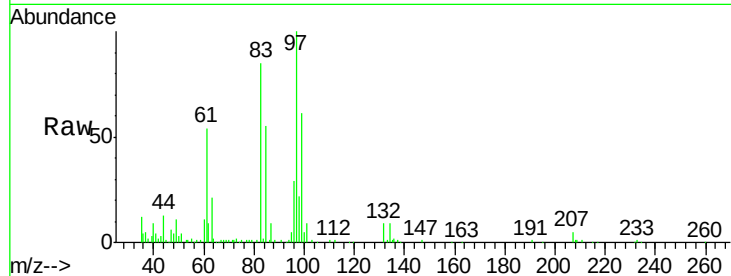
ClientSampleId :

VF0419SBS01

Tot Ion:	97	Resp:	65172
Ion	Ratio	Lower	Upper
97	100		
83	83.8	70.2	105.2
85	54.1	46.2	69.4
99	61.1	52.2	78.4

Manual Integrations
APPROVED

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4/23/2019 6:55:55 AM



#56

Ethyl methacrylate

Concen: 18.597 ug/l

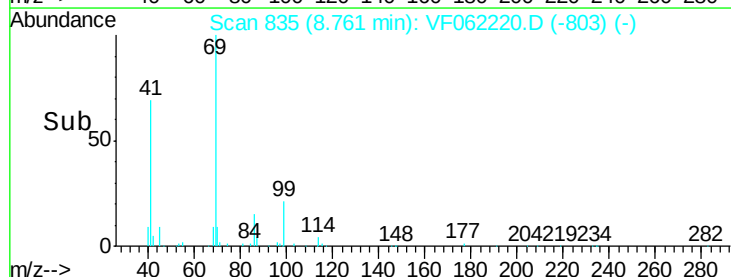
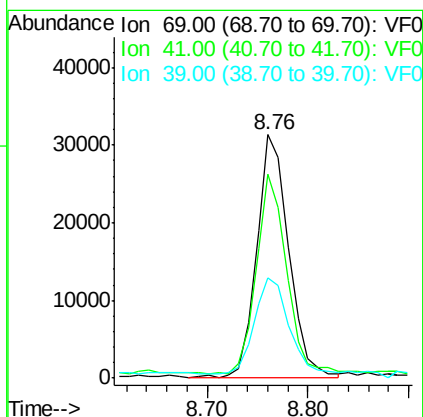
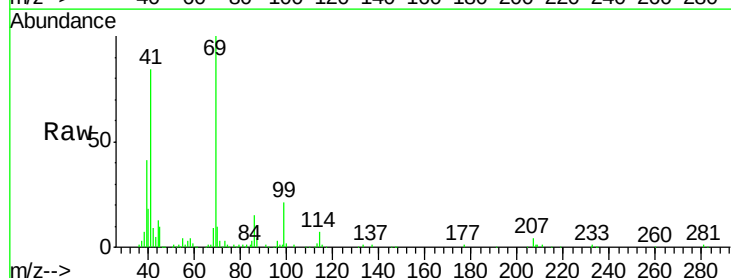
RT: 8.76 min Scan# 835

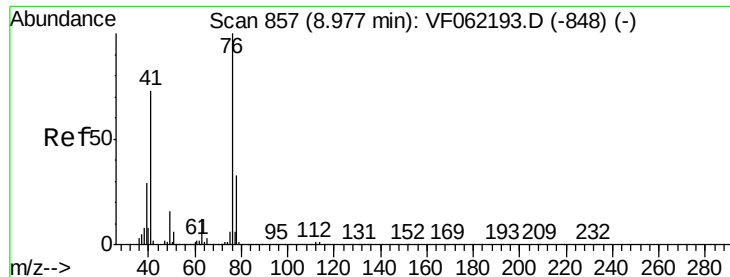
Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	69	Resp:	68336
Ion	Ratio	Lower	Upper
69	100		
41	79.4	61.5	92.3
39	42.8	33.3	49.9





#57

1,3-Dichloropropane

Concen: 19.867 ug/l

RT: 9.01 min Scan# 860

Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 76 Resp: 103683

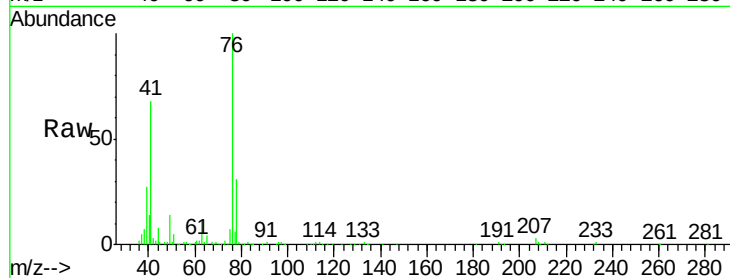
Ion Ratio Lower Upper

76 100

78 32.1 26.5 39.7

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:55:55 AM



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0

9.01

50000

40000

30000

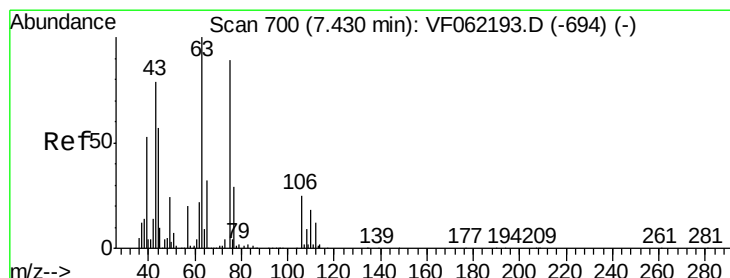
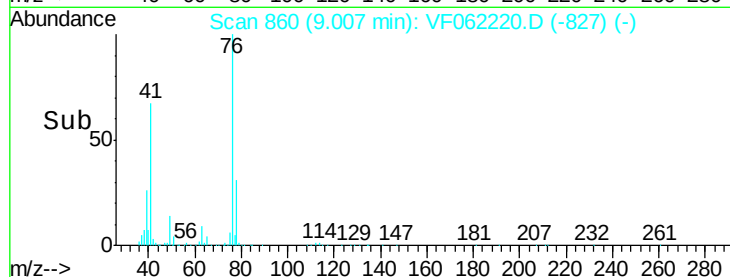
20000

10000

0

8.90 9.00 9.10

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 103.451 ug/l

RT: 7.46 min Scan# 703

Delta R.T. 0.03 min

Lab File: VF062220.D

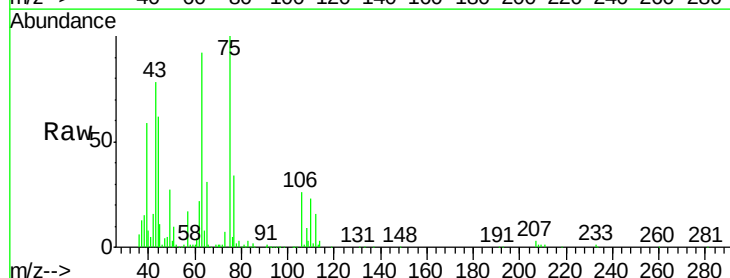
Acq: 19 Apr 2019 12:58

Tgt Ion: 63 Resp: 110365

Ion Ratio Lower Upper

63 100

106 27.4 21.4 32.0



Abundance Ion 62.90 (62.60 to 63.60): VF0

Ion 105.90 (105.60 to 106.60): V

7.46

50000

40000

30000

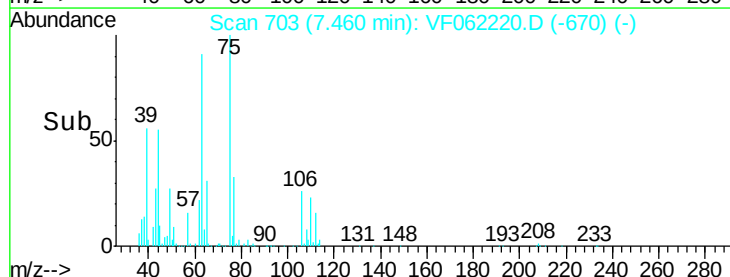
20000

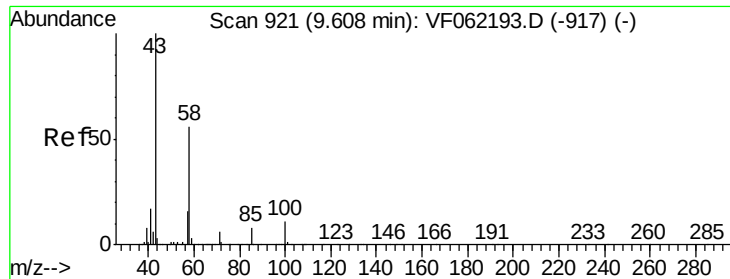
10000

0

7.40 7.50 7.60

Time-->





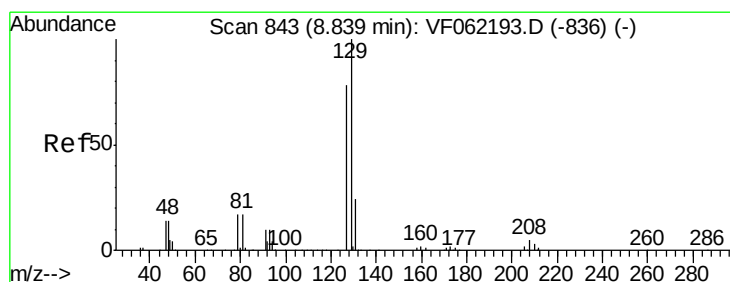
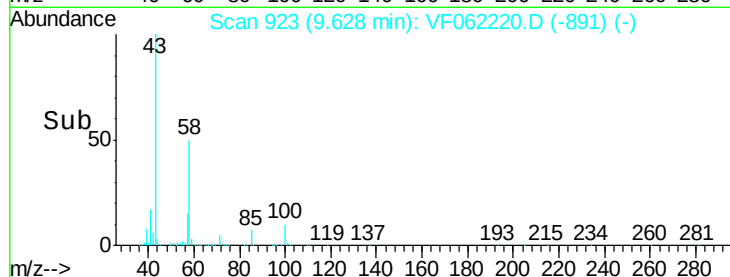
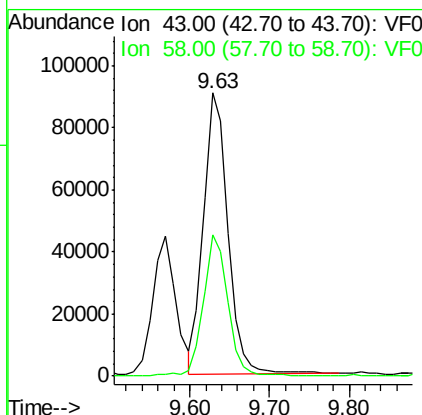
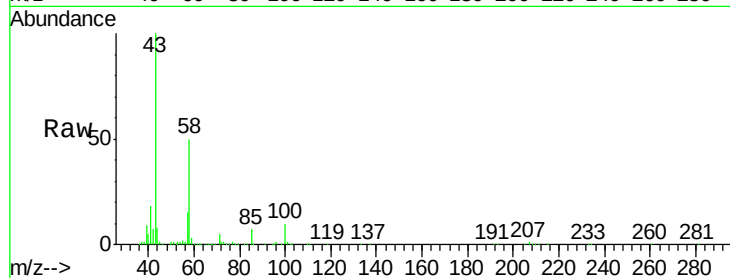
#59
2-Hexanone
Concen: 101.109 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion: 43 Resp: 194050
Ion Ratio Lower Upper
43 100
58 51.1 24.6 74.0

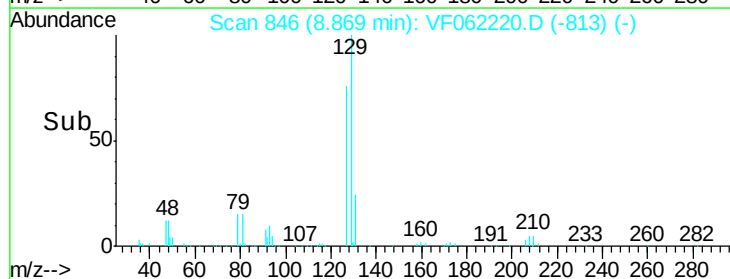
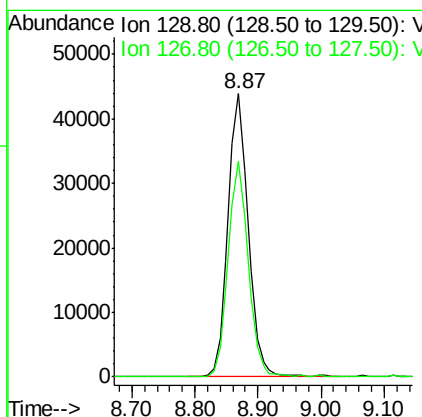
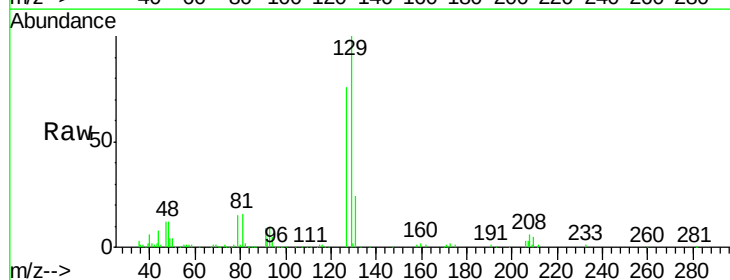
Manual Integrations
APPROVED

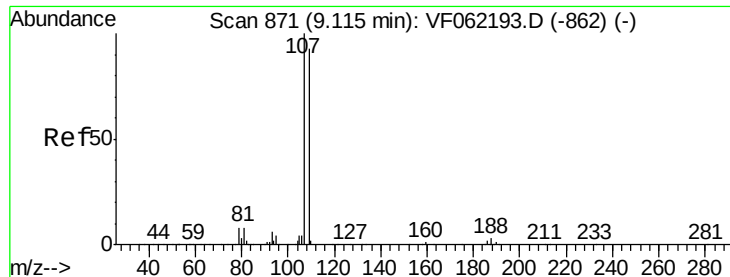
MMDadoda
4/23/2019 6:55:55 AM



#60
Dibromochloromethane
Concen: 20.382 ug/l
RT: 8.87 min Scan# 846
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion: 129 Resp: 97966
Ion Ratio Lower Upper
129 100
127 74.9 39.0 117.0





#61

1,2-Dibromoethane

Concen: 20.202 ug/l

RT: 9.15 min Scan# 874

Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion:107 Resp: 73557

Ion Ratio Lower Upper

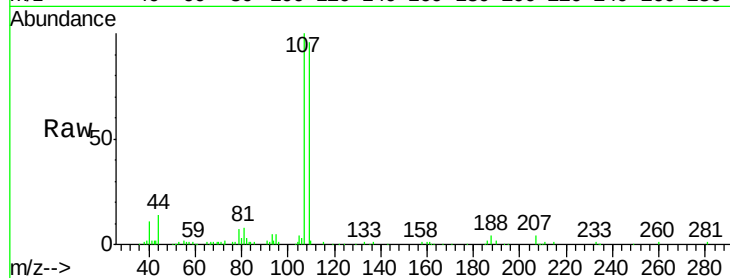
107 100

109 95.8 74.3 111.5

Manual Integrations
APPROVED

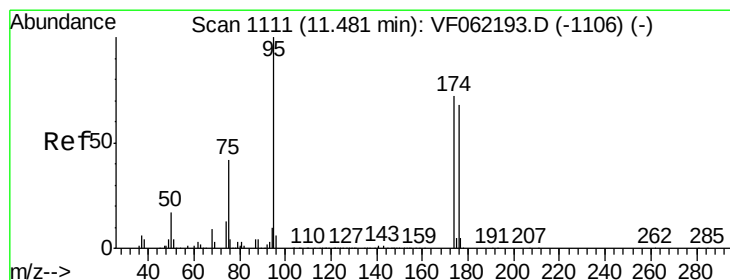
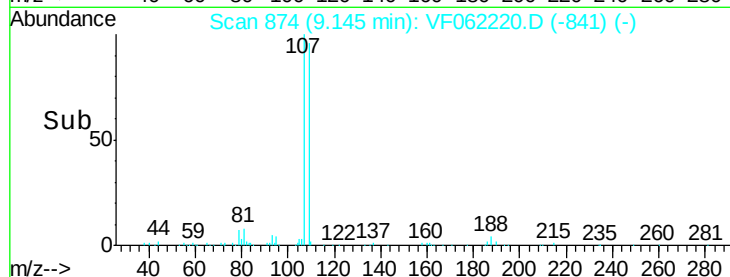
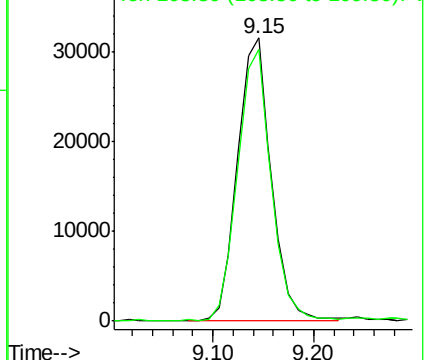
MMDadoda

4/23/2019 6:55:55 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 53.050 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

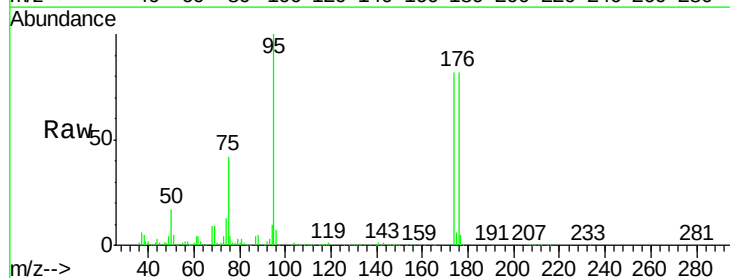
Tgt Ion: 95 Resp: 314491

Ion Ratio Lower Upper

95 100

174 85.5 0.0 159.4

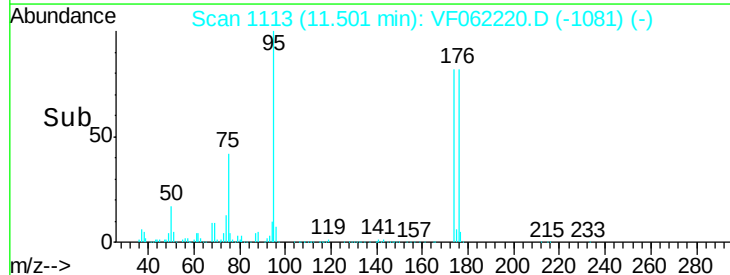
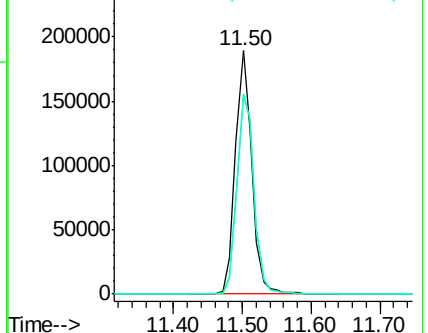
176 84.7 0.0 155.4

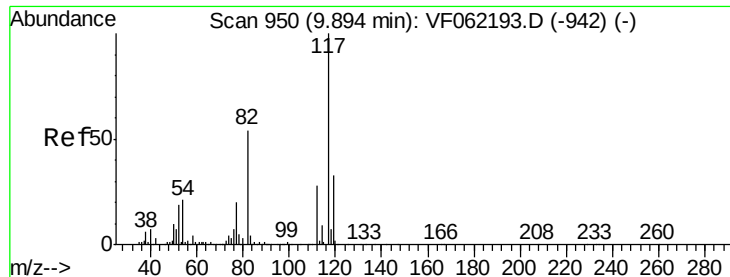


Abundance Ion 94.90 (94.60 to 95.60): VF0

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# 952

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

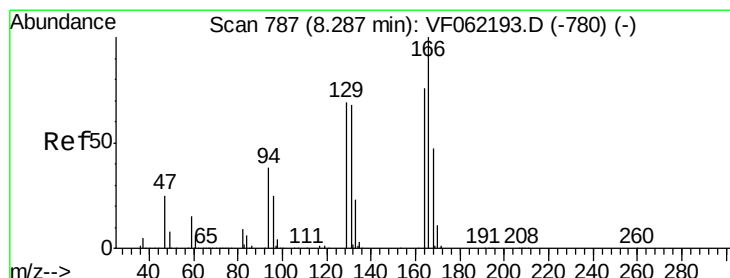
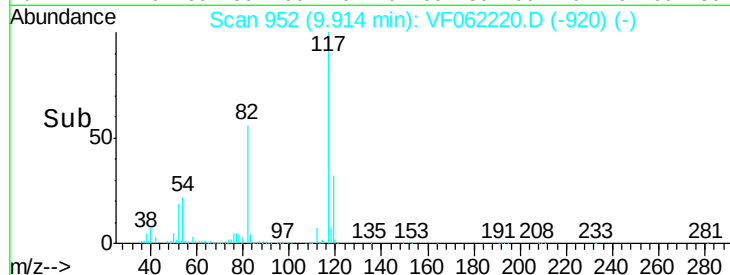
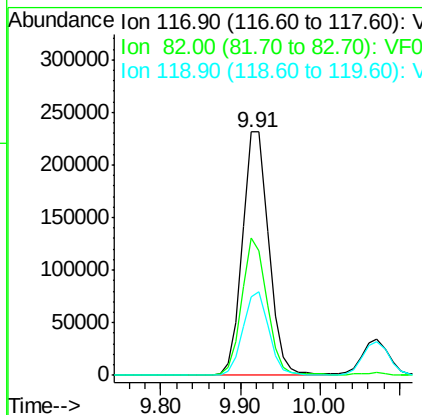
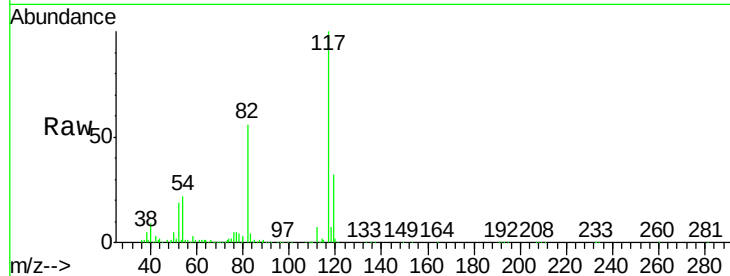
ClientSampleId :

VF0419SBS01

Tot Ion:	117	Resp:	530369
Ion Ratio		Lower	Upper
117	100		
82	56.4	43.2	64.8
119	32.0	26.2	39.4

Manual Integrations
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4/23/2019 6:55:55 AM



#64

Tetrachloroethene

Concen: 20.182 ug/l

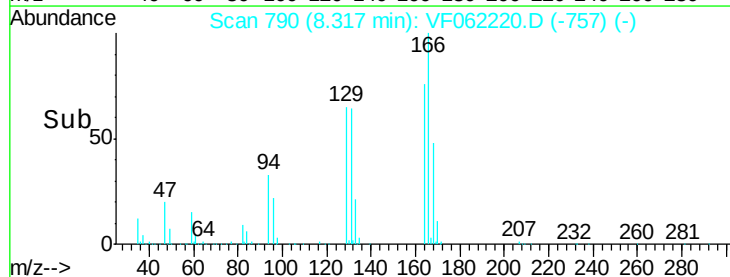
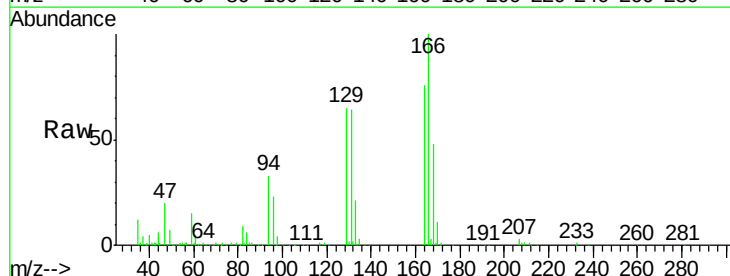
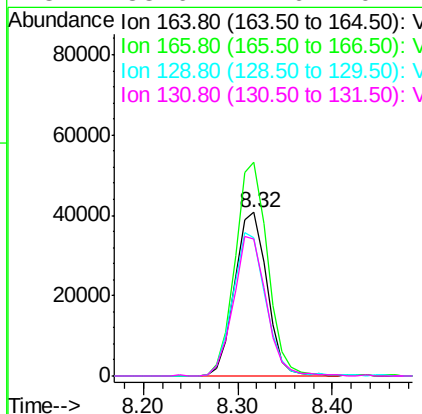
RT: 8.32 min Scan# 790

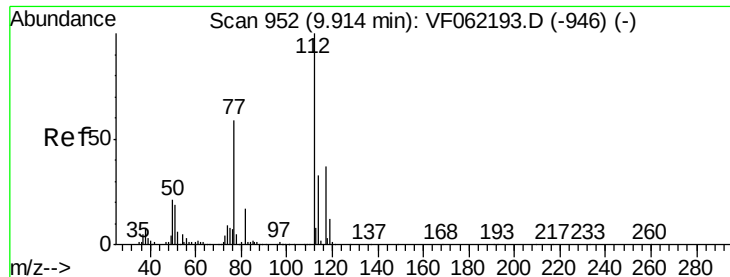
Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	164	Resp:	96624
Ion Ratio		Lower	Upper
164	100		
166	130.8	104.7	157.1
129	84.2	72.6	109.0
131	83.6	71.6	107.4





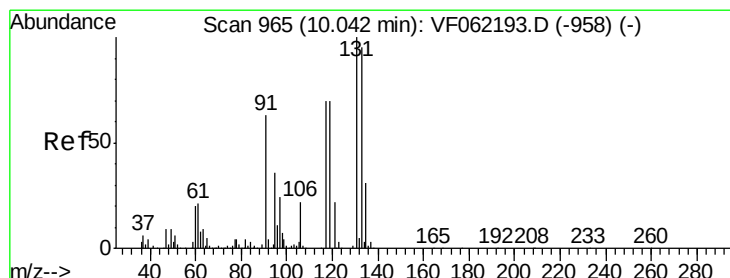
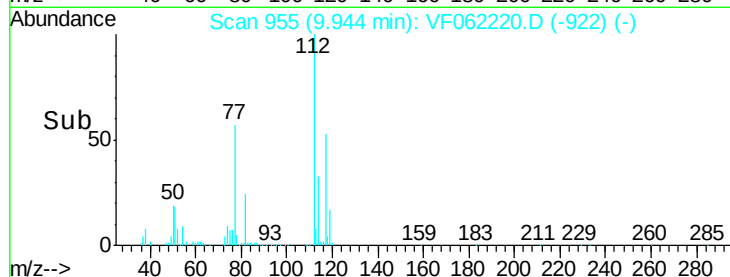
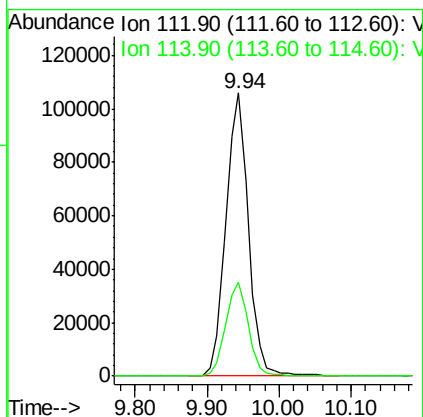
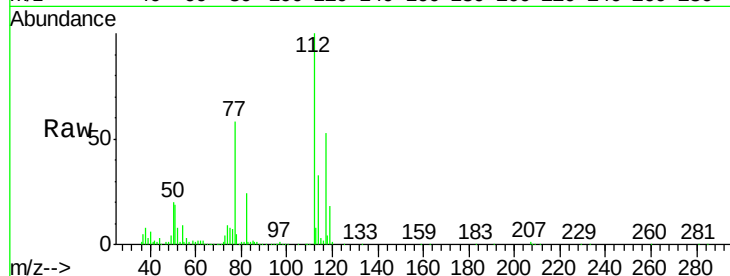
#65
Chlorobenzene
Concen: 20.372 ug/l
RT: 9.94 min Scan# 955
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	230391		
114	33.3	26.1	39.1	

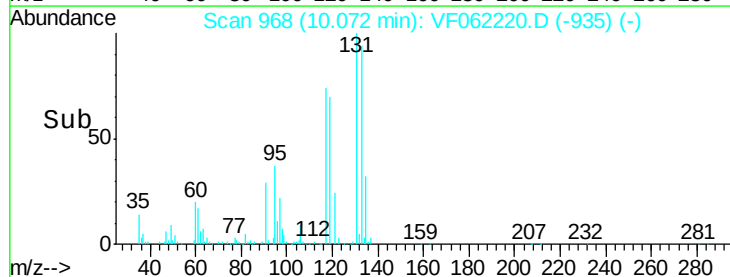
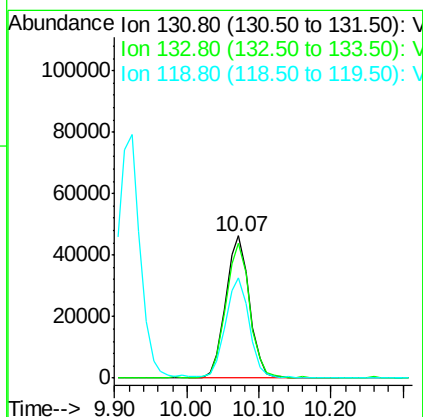
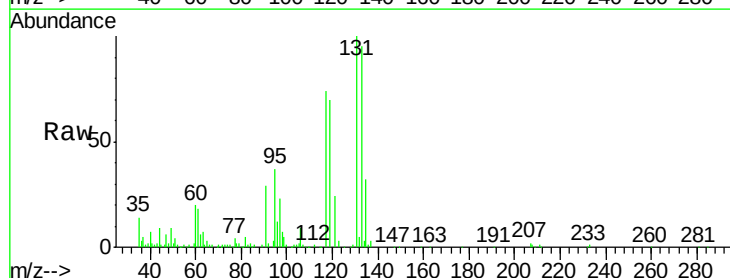
Manual Integrations
APPROVED

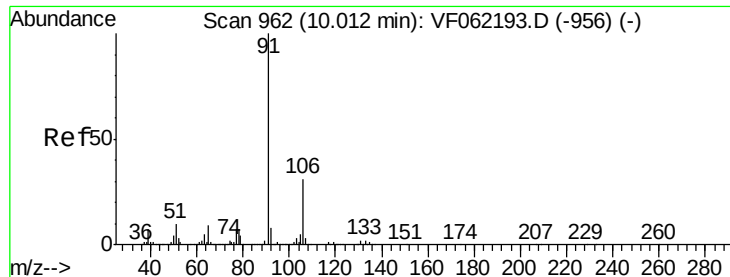
MMDadoda
4/23/2019 6:55:55 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.058 ug/l
RT: 10.07 min Scan# 968
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	106224		
133	95.5	47.7	143.1	
119	69.8	34.6	103.9	





#67

Ethyl Benzene

Concen: 20.284 ug/l

RT: 10.04 min Scan# 965

Delta R.T. 0.03 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 91 Resp: 417125

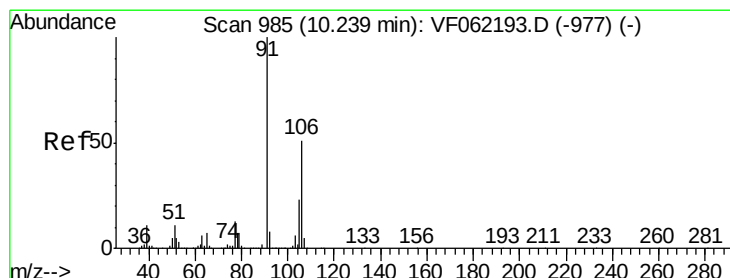
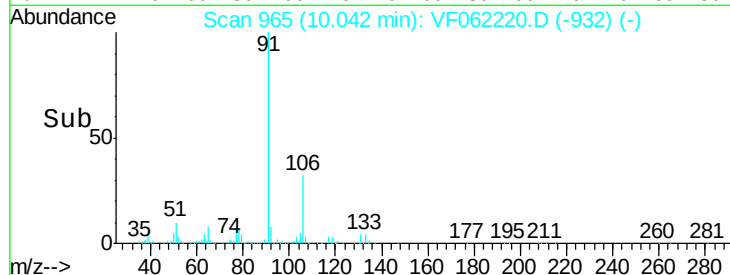
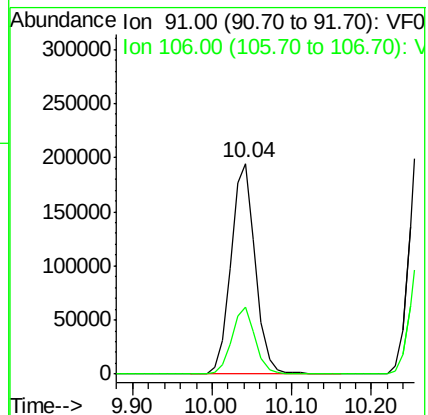
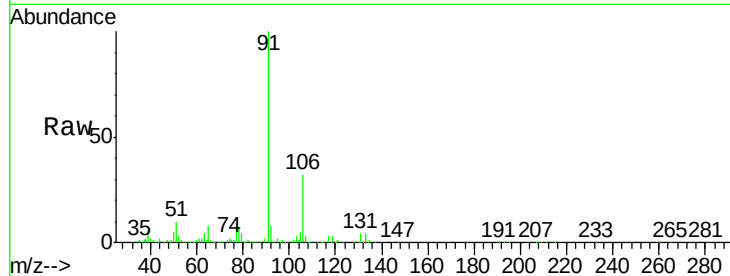
Ion Ratio Lower Upper

91 100

106 31.6 24.9 37.3

Manual Integrations
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MMDadoda
4/23/2019 6:55:55 AM



#68

m/p-Xylenes

Concen: 40.509 ug/l

RT: 10.27 min Scan# 988

Delta R.T. 0.03 min

Lab File: VF062220.D

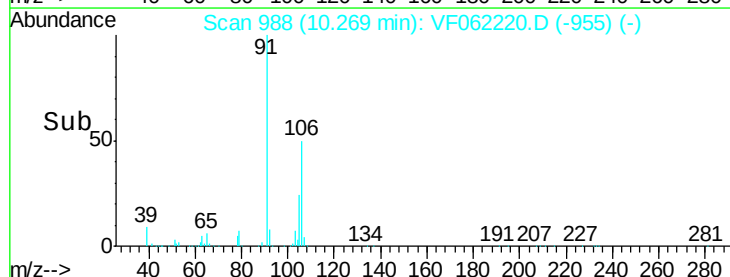
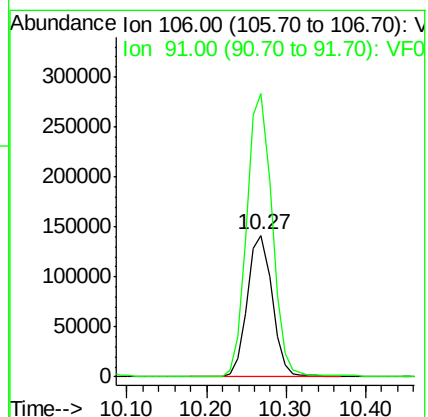
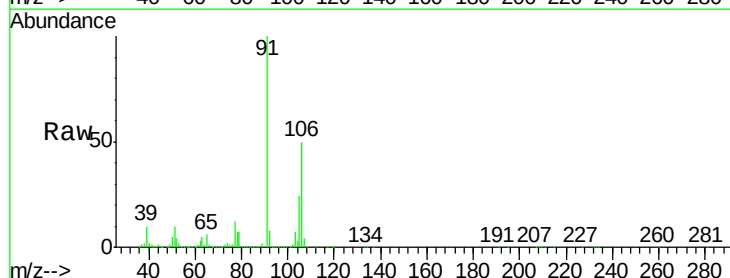
Acq: 19 Apr 2019 12:58

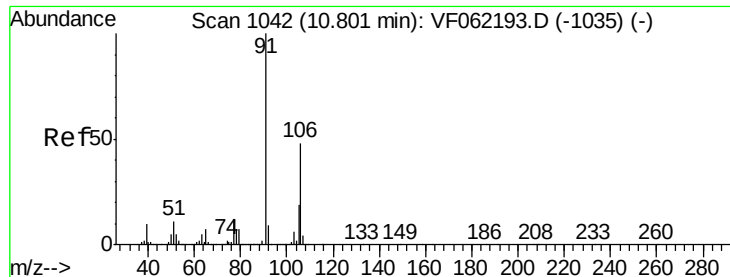
Tgt Ion: 106 Resp: 306657

Ion Ratio Lower Upper

106 100

91 202.2 159.1 238.7





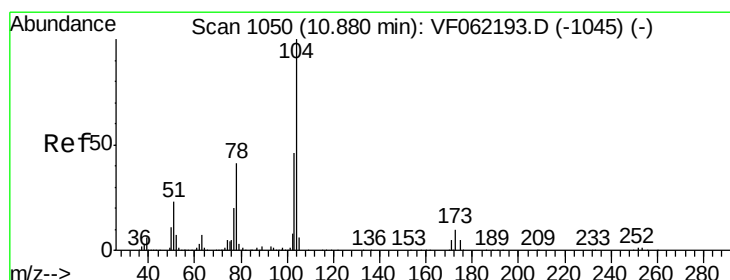
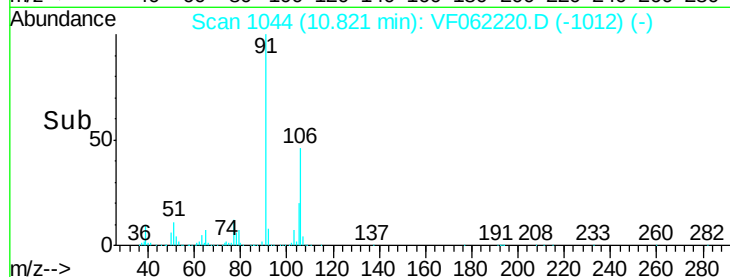
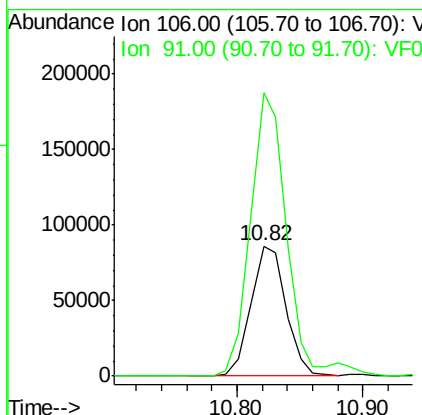
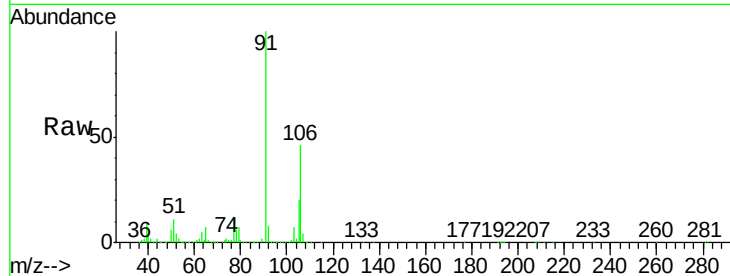
#69
o-Xylene
Concen: 19.901 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion:106 Resp: 167269
Ion Ratio Lower Upper
106 100
91 217.8 107.5 322.4

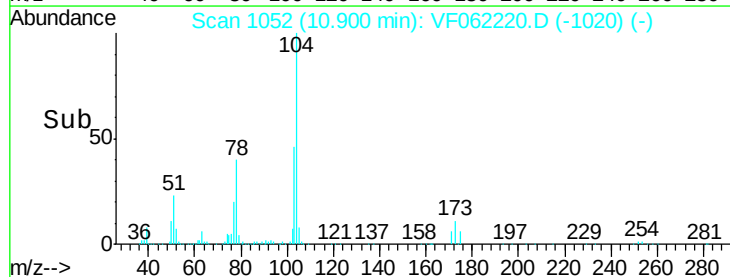
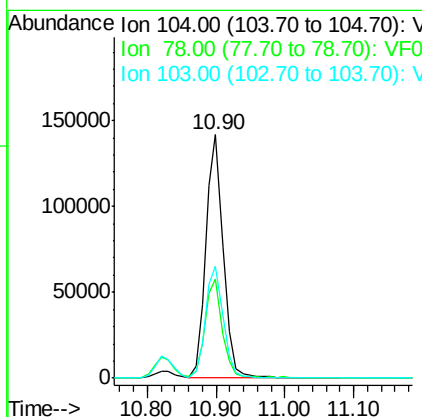
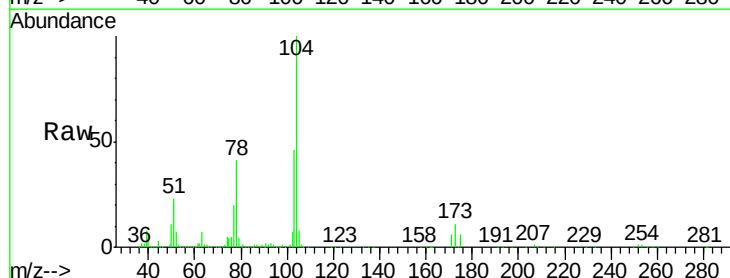
Manual Integrations
APPROVED

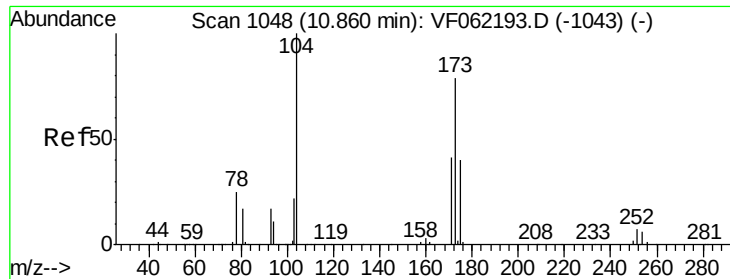
MMDadoda
4/23/2019 6:55:55 AM



#70
Styrene
Concen: 20.893 ug/l
RT: 10.90 min Scan# 1052
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion:104 Resp: 247816
Ion Ratio Lower Upper
104 100
78 40.1 34.5 51.7
103 47.5 37.2 55.8





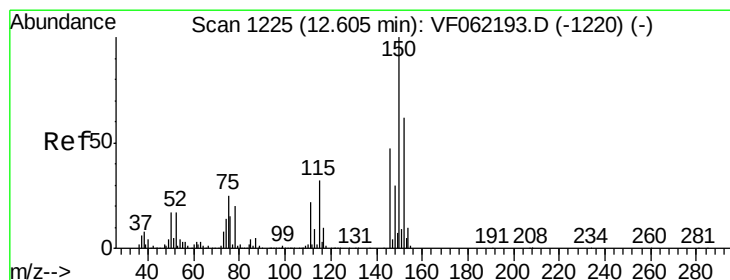
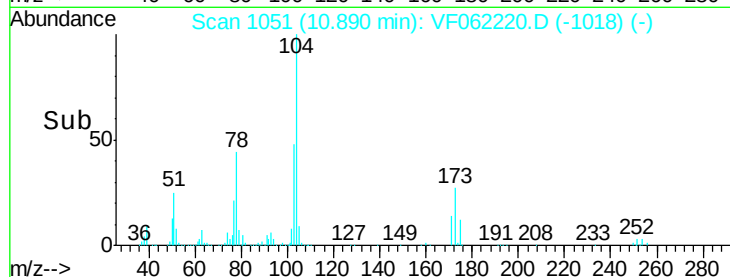
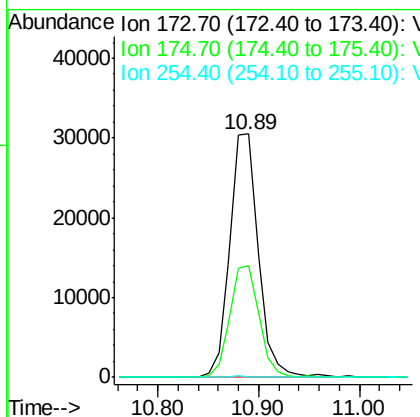
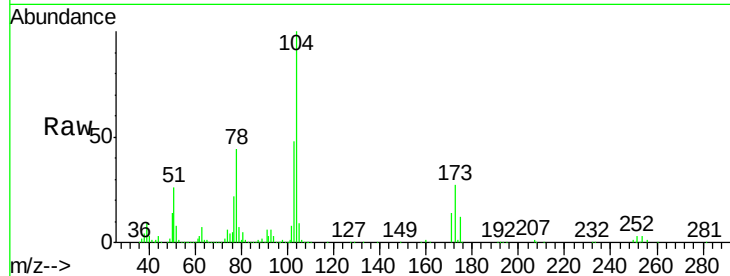
#71
Bromoform
Concen: 21.473 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.03 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.3	24.5	73.5
254	0.2	0.1	0.1#

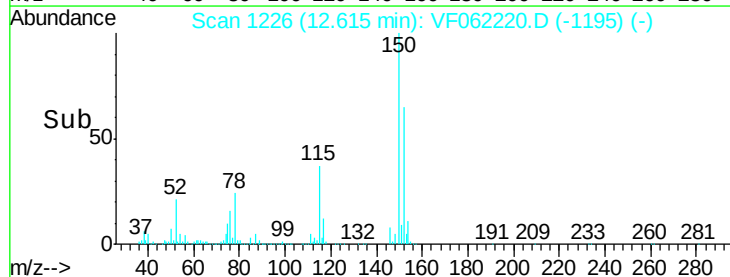
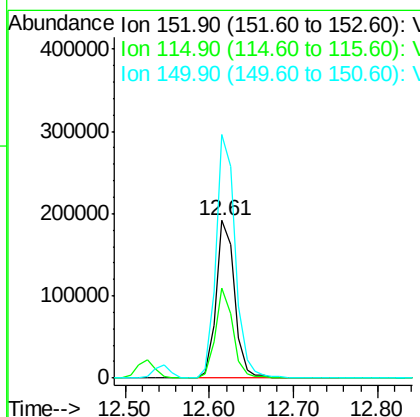
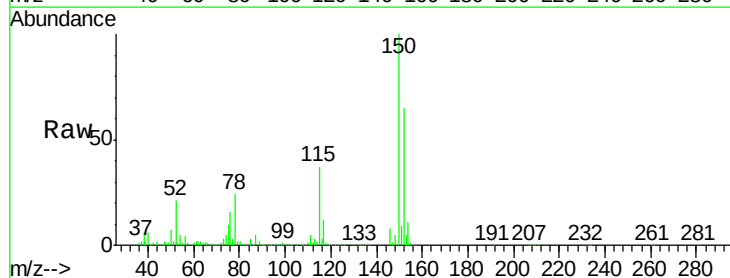
Manual Integrations
APPROVED

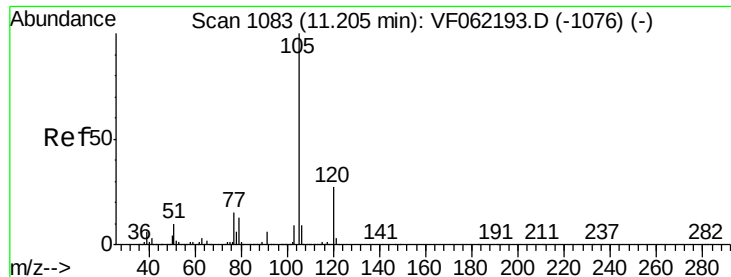
MMDadoda
4/23/2019 6:55:55 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.0	27.8	83.3
150	160.2	0.0	341.8





#73

Isopropylbenzene

Concen: 19.735 ug/l

RT: 11.23 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 105 Resp: 497772

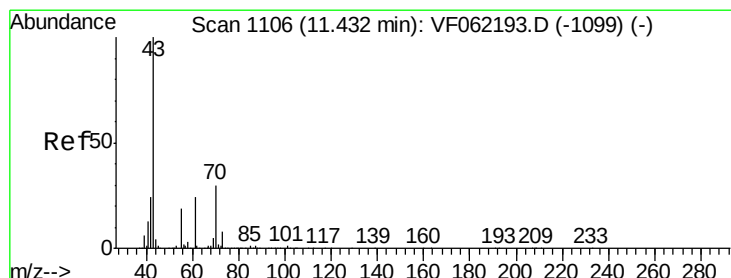
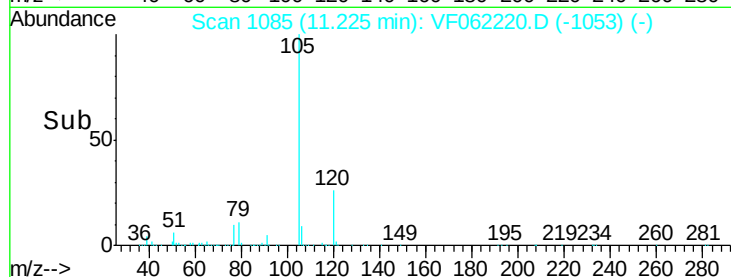
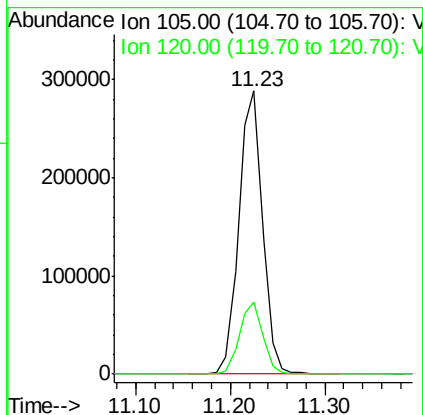
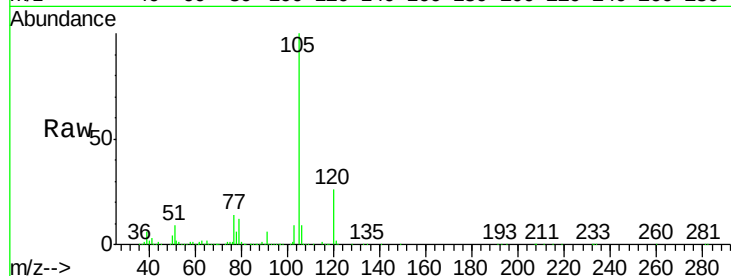
Ion Ratio Lower Upper

105 100

120 25.1 13.0 38.9

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:55:55 AM



#74

N-ethyl acetate

Concen: 18.590 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion: 43 Resp: 119516

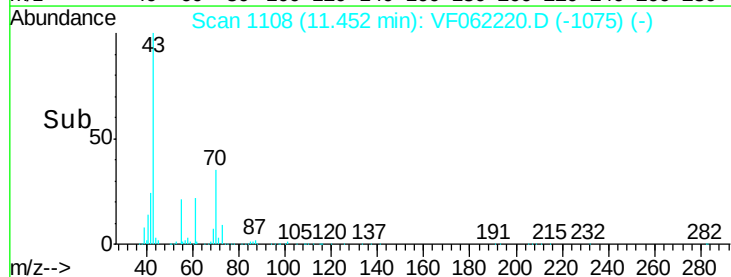
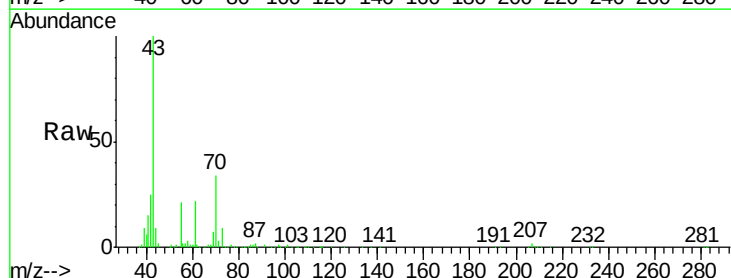
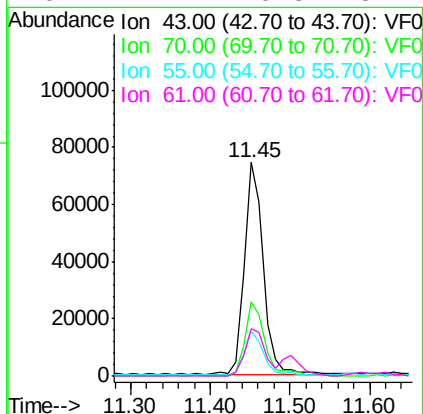
Ion Ratio Lower Upper

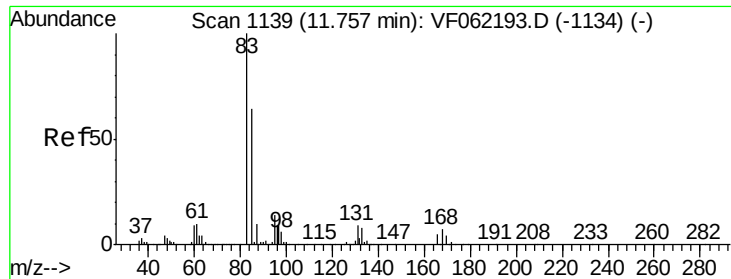
43 100

70 36.9 27.0 40.4

55 21.1 15.7 23.5

61 24.4 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 20.210 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

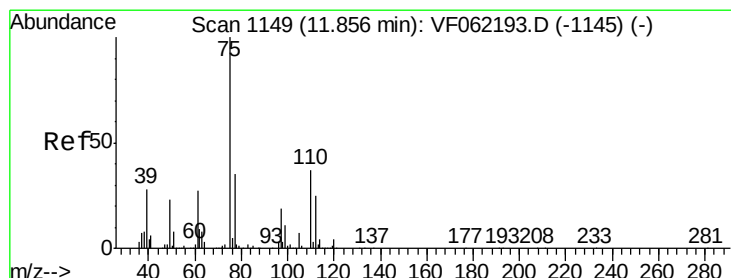
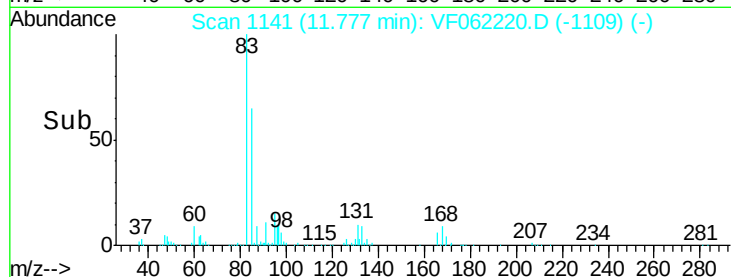
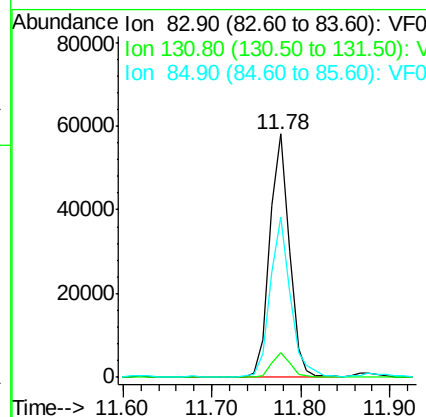
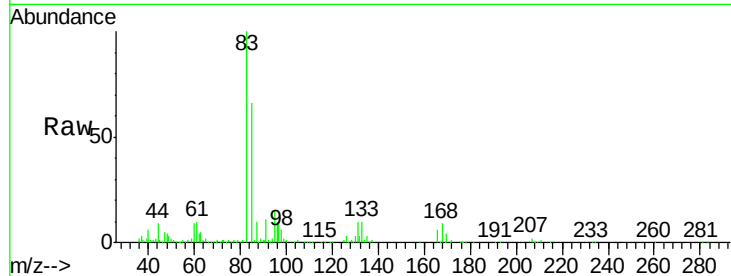
ClientSampleId :

VF0419SBS01

Tot Ion:	83	Resp:	87668
Ion Ratio	Lower	Upper	
83	100		
131	9.9	4.5	13.5
85	67.9	34.7	104.1

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:55:55 AM



#76

1,2,3-Trichloropropane

Concen: 18.361 ug/l m

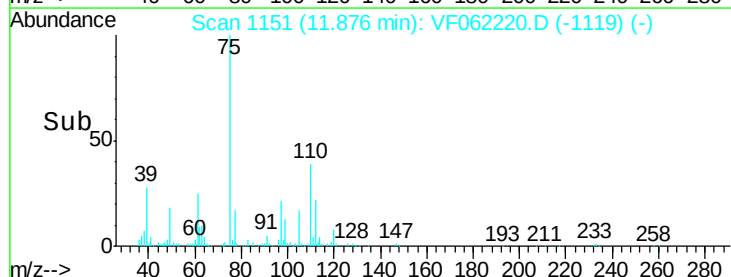
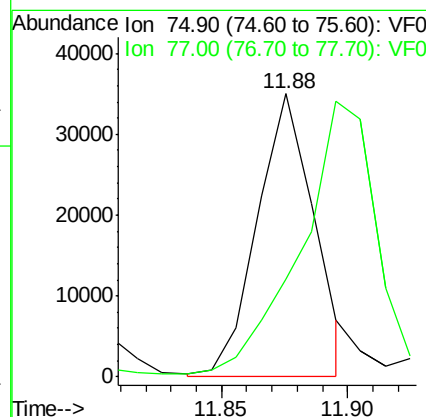
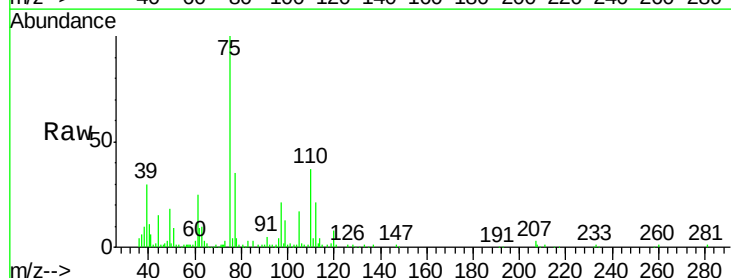
RT: 11.88 min Scan# 1151

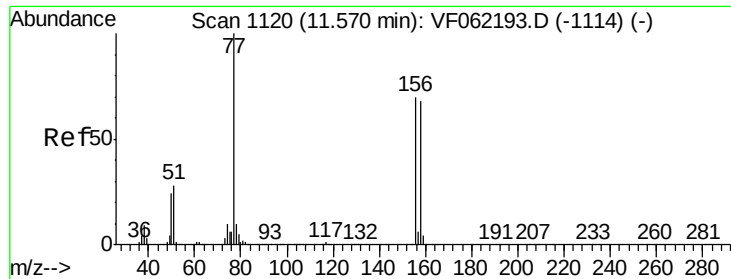
Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	75	Resp:	54798
Ion Ratio	Lower	Upper	
75	100		
77	13.5	7.4	22.2





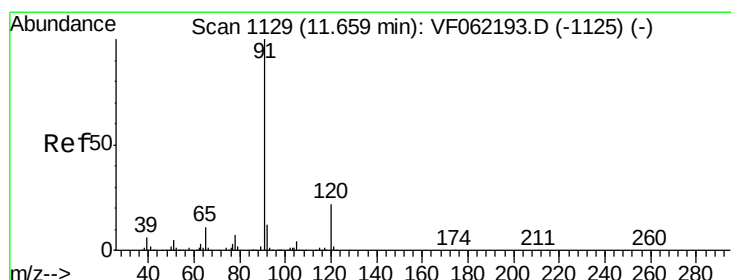
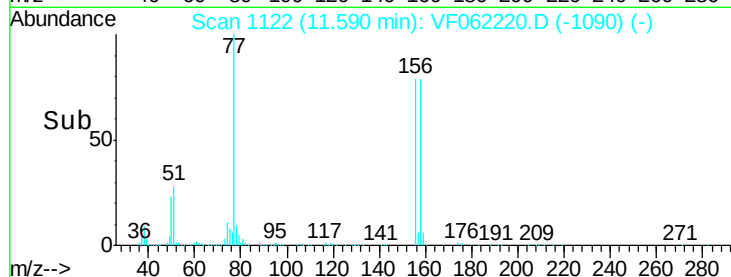
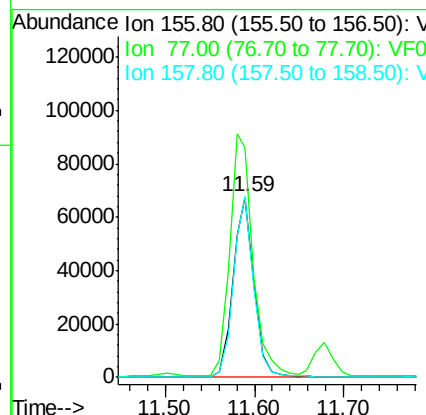
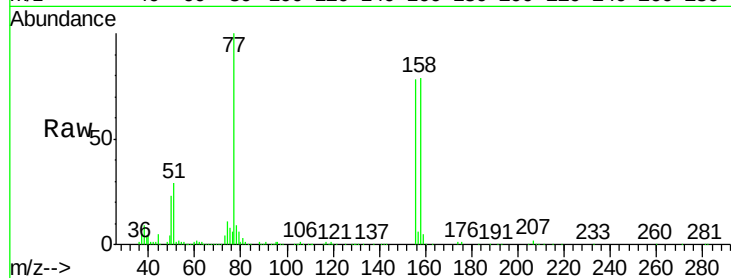
#77
Bromobenzene
Concen: 20.733 ug/l
RT: 11.59 min Scan# 1122
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	149.2	80.9	242.7
158	97.6	49.8	149.4

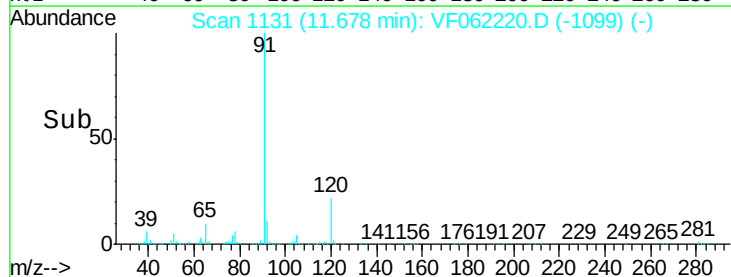
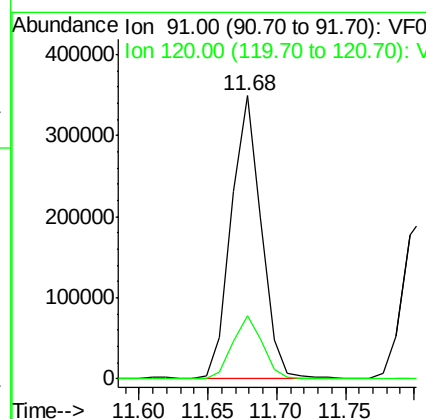
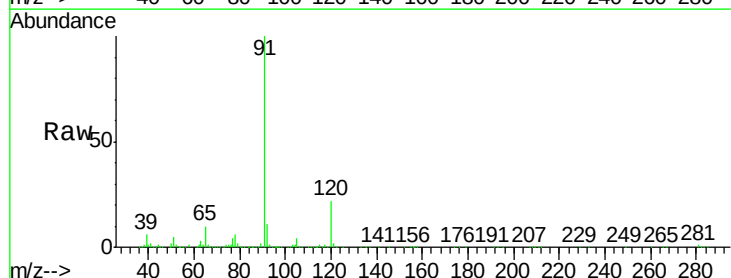
Manual Integrations
APPROVED

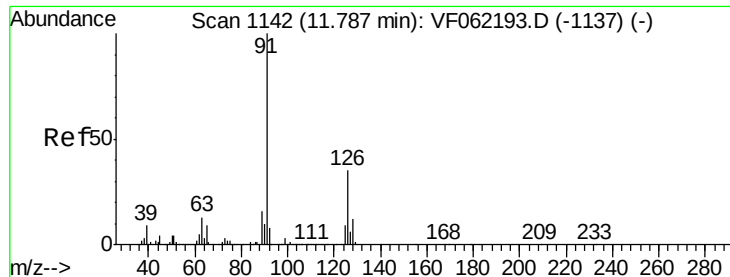
MMDadoda
4/23/2019 6:55:55 AM



#78
n-propylbenzene
Concen: 19.850 ug/l
RT: 11.68 min Scan# 1131
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.6





#79

2-Chlorotoluene

Concen: 20.153 ug/l

RT: 11.81 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

ClientSampleId :

VF0419SBS01

Tot Ion: 91 Resp: 325287

Ion Ratio Lower Upper

91 100

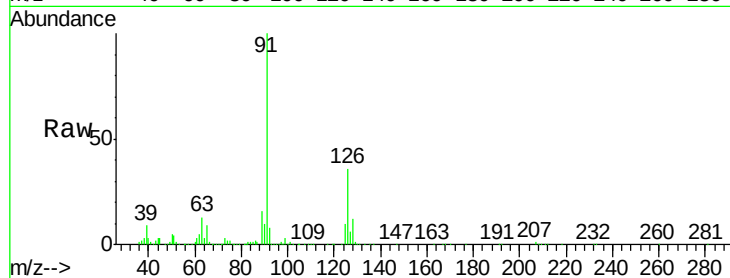
126 34.6 16.9 50.6

Manual Integrations

APPROVED

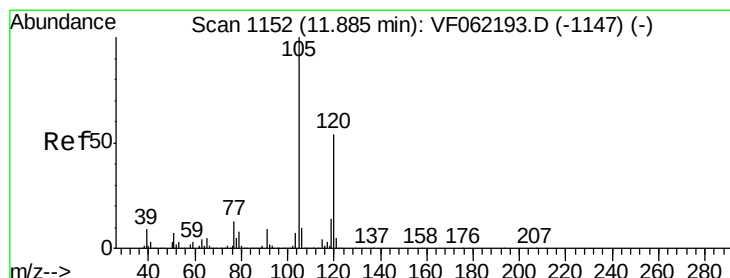
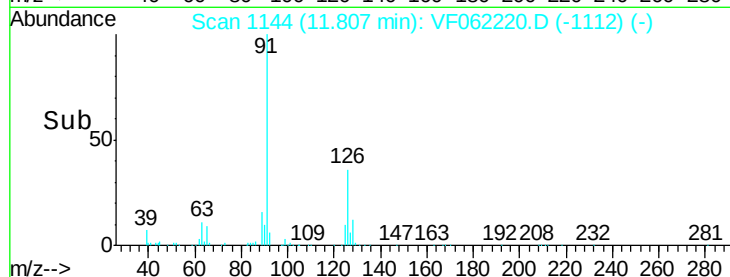
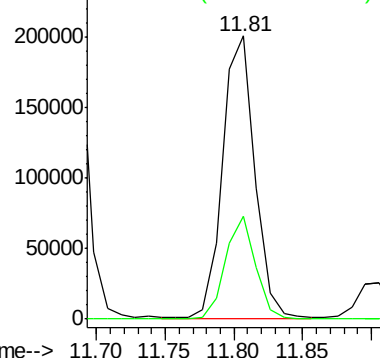
MMDadoda

4/23/2019 6:55:55 AM



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: 20.004 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VF062220.D

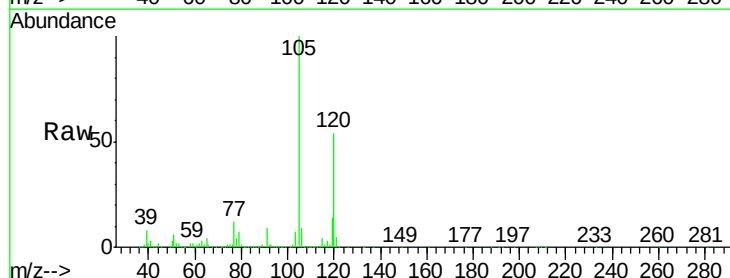
Acq: 19 Apr 2019 12:58

Tgt Ion:105 Resp: 420240

Ion Ratio Lower Upper

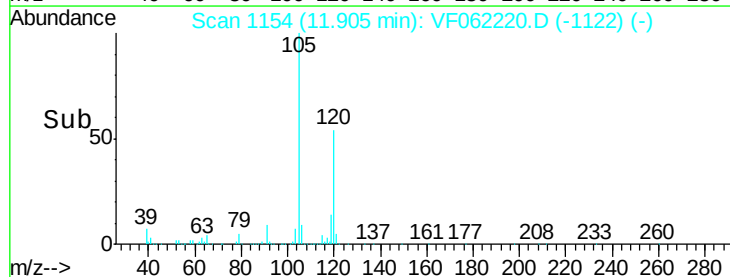
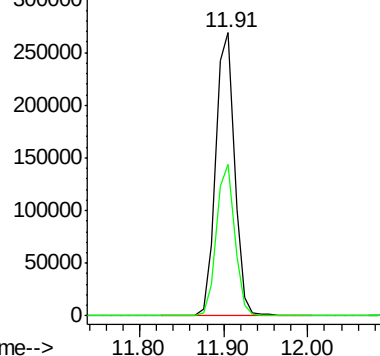
105 100

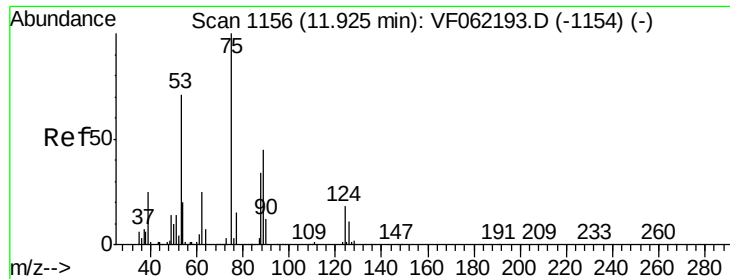
120 52.3 26.2 78.5



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: 18.343 ug/l m

RT: 11.94 min Scan# 1158

Delta R.T. 0.02 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Instrument :

MSVOA_F

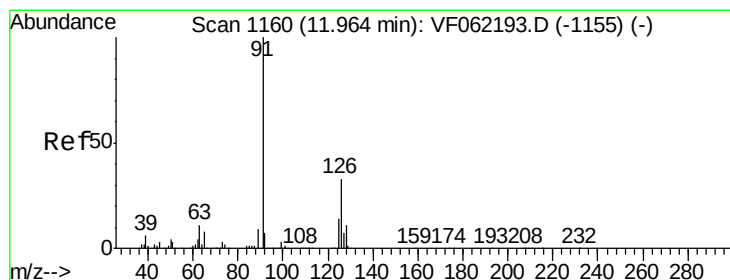
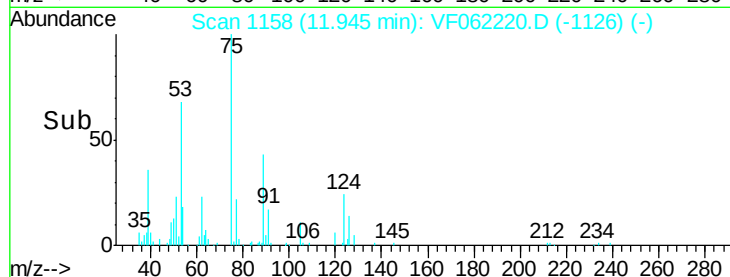
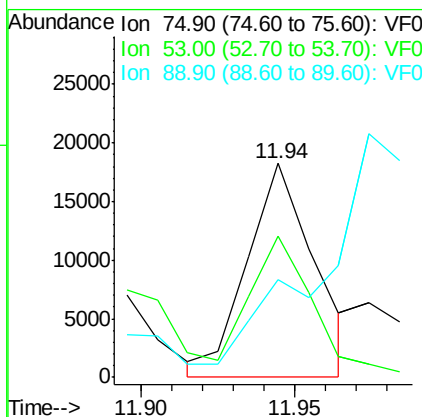
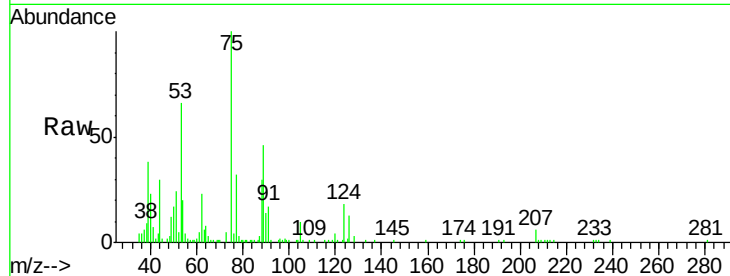
ClientSampleId :

VF0419SBS01

Tot Ion:	75	Resp:	27919
Ion	Ratio	Lower	Upper
75	100		
53	65.7	50.2	75.4
89	0.0	0.0	0.0

Manual Integrations
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4/23/2019 6:55:55 AM



#82

4-Chlorotoluene

Concen: 19.987 ug/l

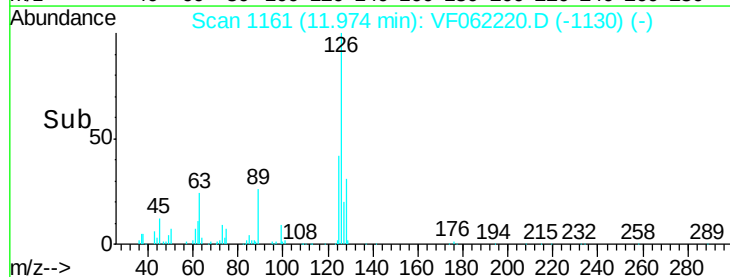
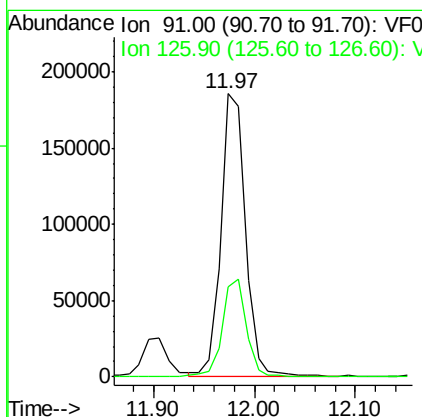
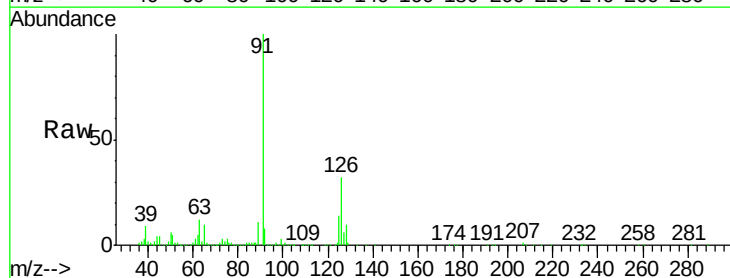
RT: 11.97 min Scan# 1161

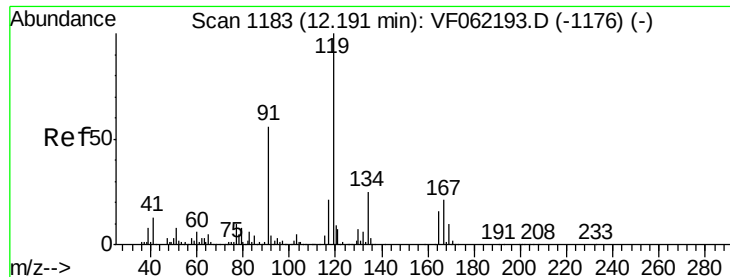
Delta R.T. 0.01 min

Lab File: VF062220.D

Acq: 19 Apr 2019 12:58

Tgt Ion:	91	Resp:	311766
Ion	Ratio	Lower	Upper
91	100		
126	34.8	16.9	50.6





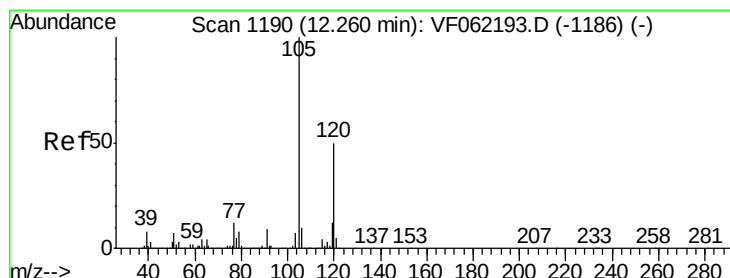
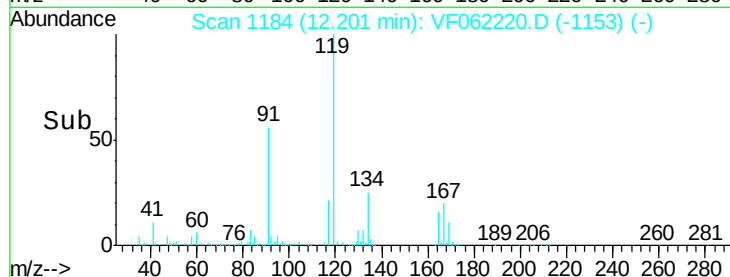
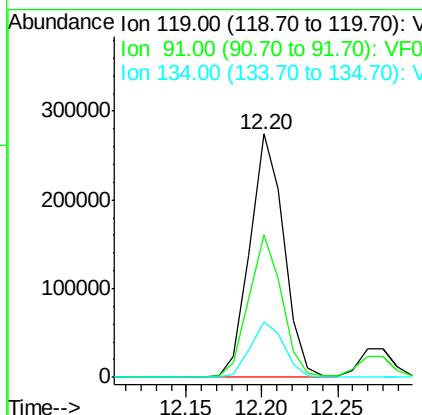
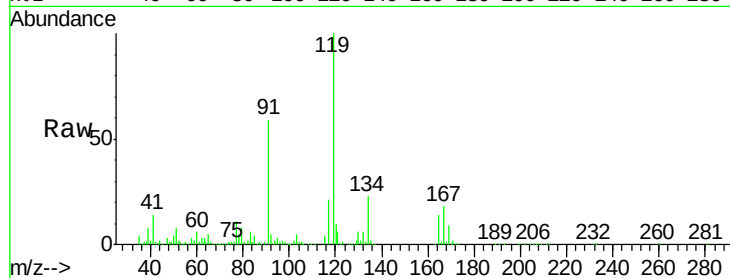
#83
 tert-Butylbenzene
 Concen: 19.823 ug/l
 RT: 12.20 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	56.5	29.4	88.2
134	22.8	11.8	35.3

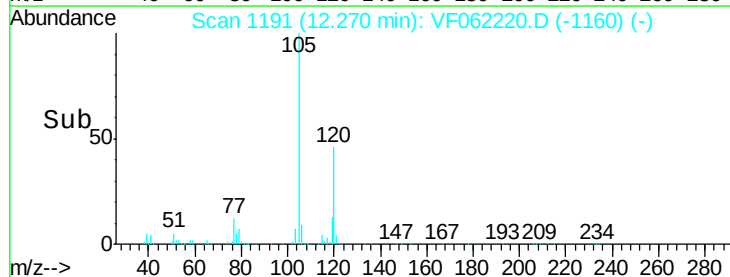
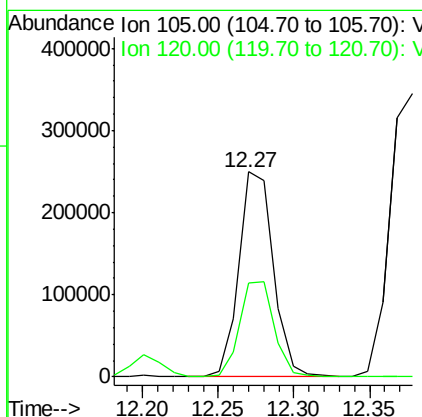
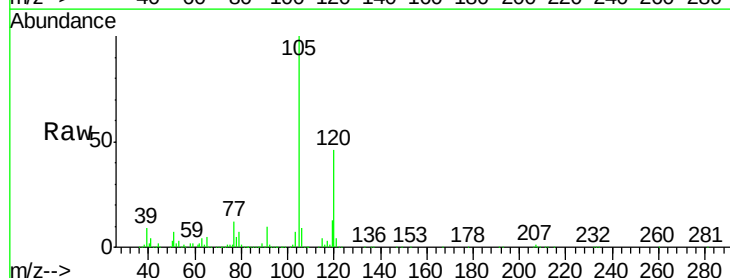
Manual Integrations
 APPROVED

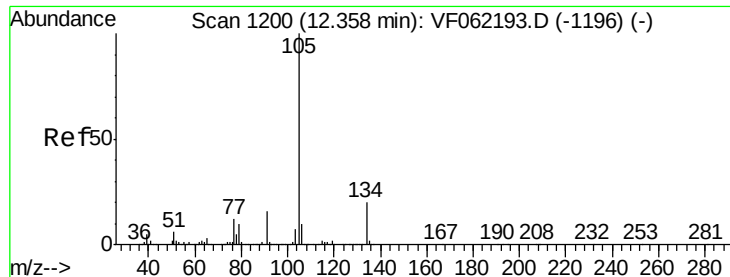
MMDadoda
 4/23/2019 6:55:55 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 19.347 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.01 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.1	24.0	72.0





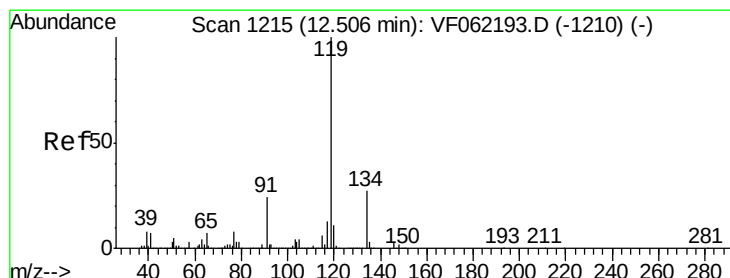
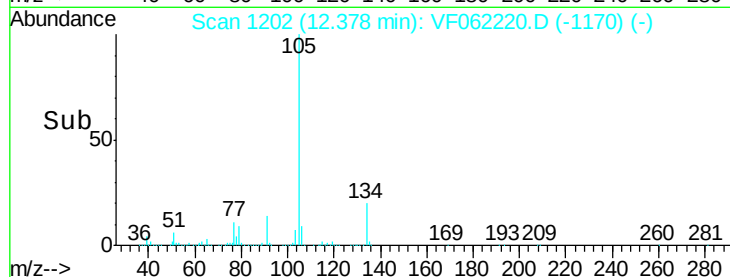
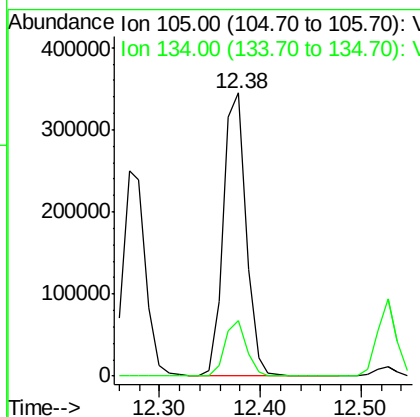
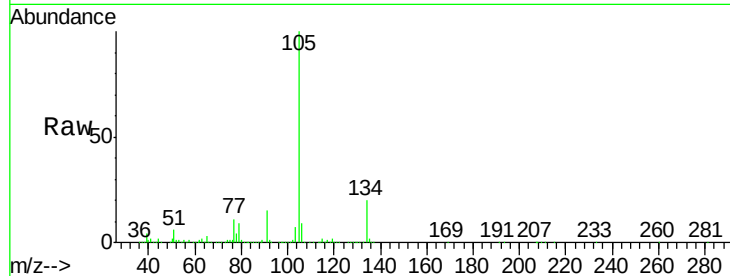
#85
 sec-Butylbenzene
 Concen: 19.229 ug/l
 RT: 12.38 min Scan# 1202
 Delta R.T. 0.02 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	542360		
134	18.8	9.7	29.1	

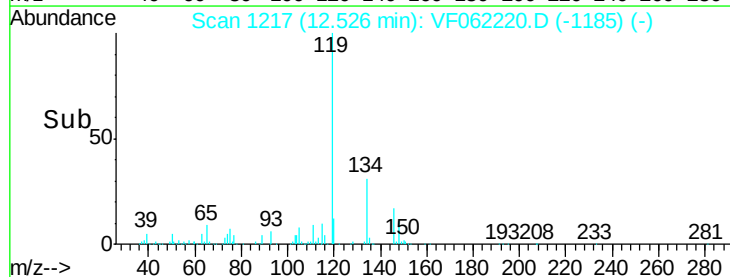
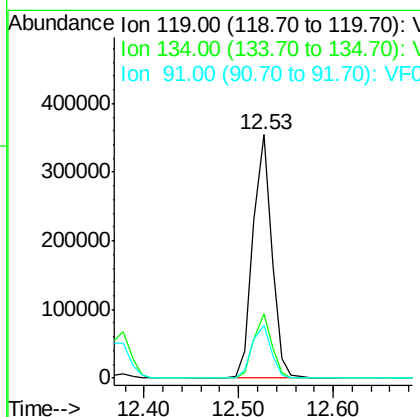
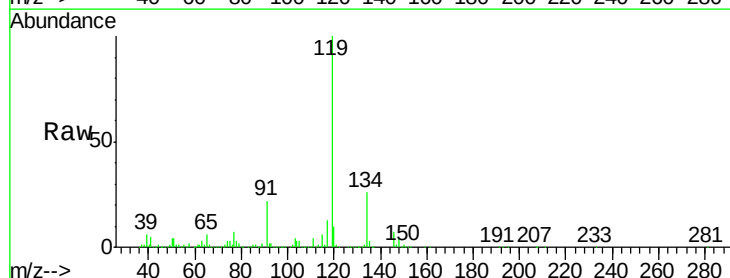
Manual Integrations
 APPROVED

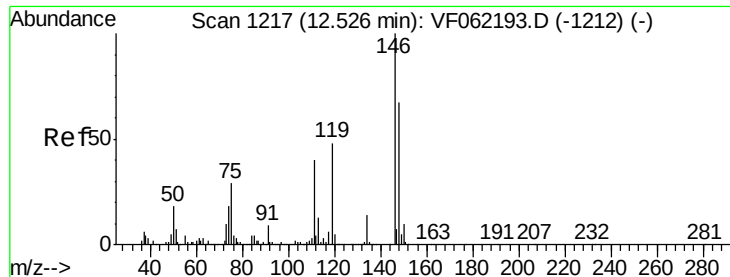
MMDadoda
 4/23/2019 6:55:55 AM



#86
 p-Isopropyltoluene
 Concen: 20.461 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. 0.02 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	489529		
134	25.7	13.2	39.5	
91	22.0	11.7	35.1	





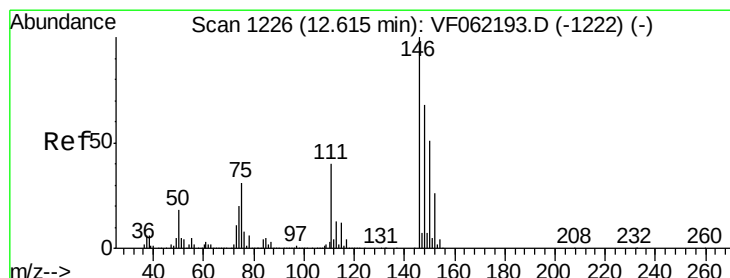
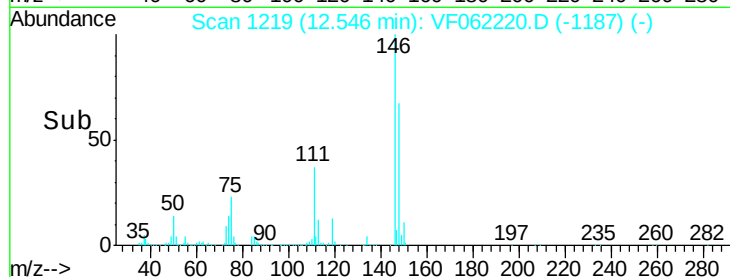
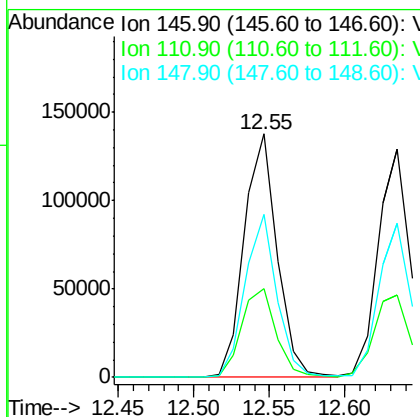
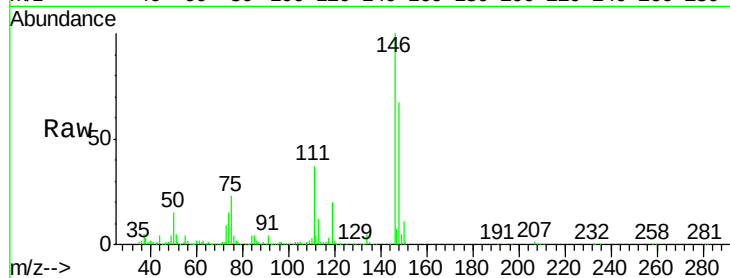
#87
 1,3-Dichlorobenzene
 Concen: 20.895 ug/l
 RT: 12.55 min Scan# 1219
 Delta R.T. 0.02 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.7	59.0
148	64.9	32.9	98.6

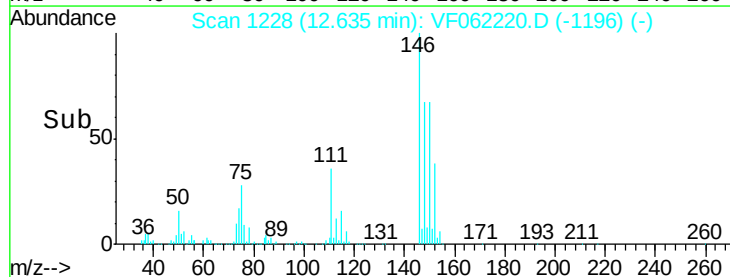
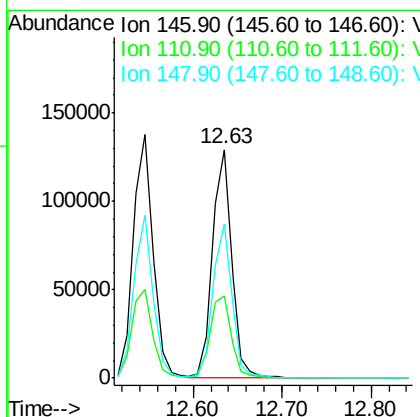
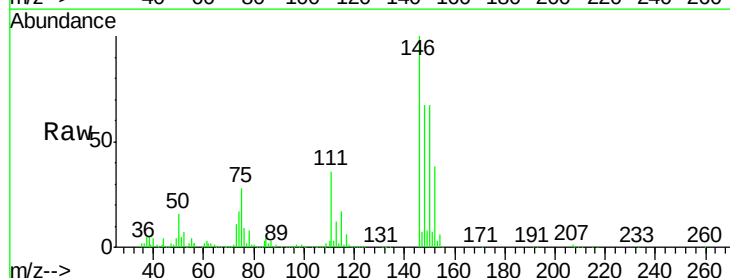
Manual Integrations
 APPROVED

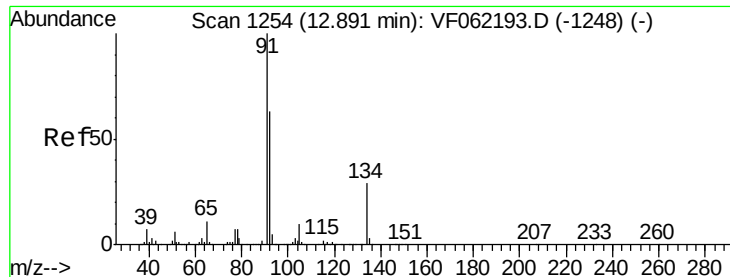
MMDadoda
 4/23/2019 6:55:55 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.128 ug/l
 RT: 12.63 min Scan# 1228
 Delta R.T. 0.02 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	20.0	60.0
148	66.7	33.6	100.8





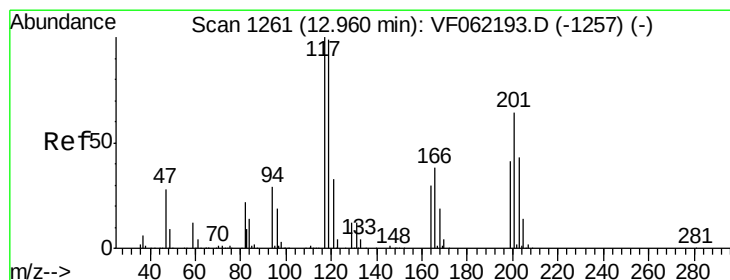
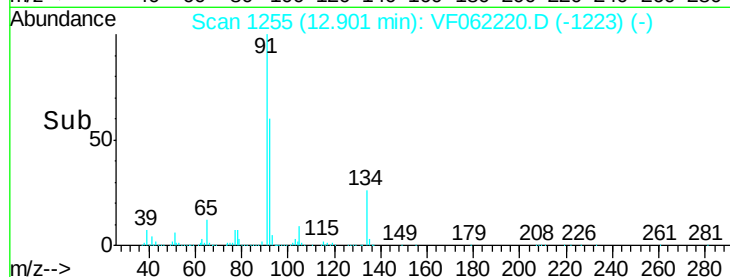
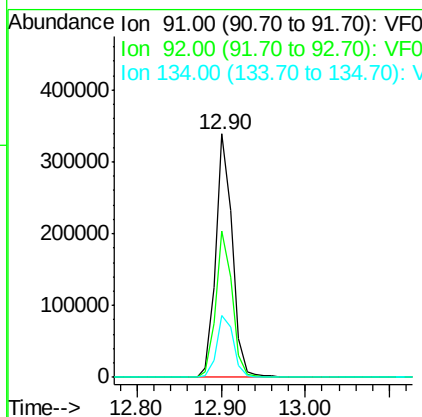
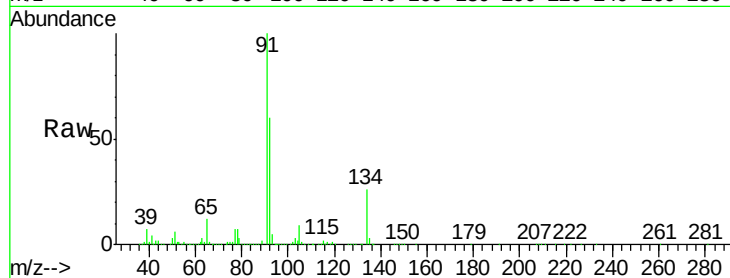
#89
n-Butylbenzene
Concen: 20.308 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampleId :
VF0419SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.1	31.2	93.6
134	26.2	13.1	39.1

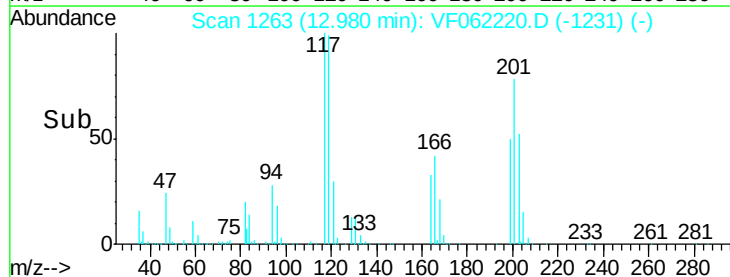
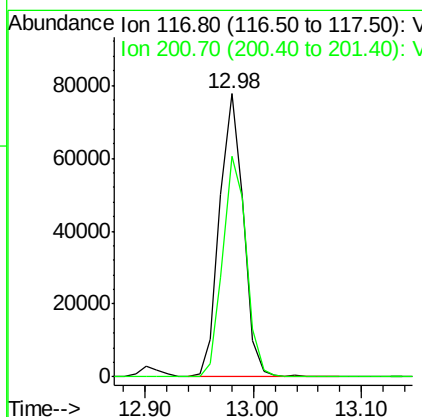
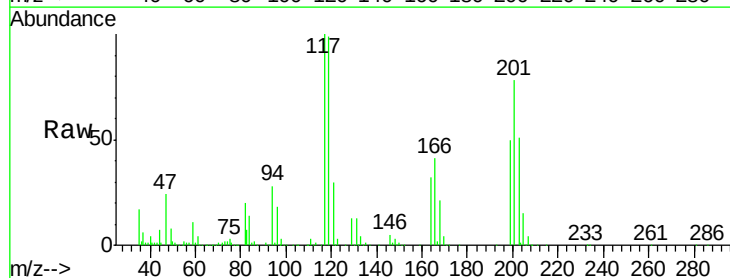
Manual Integrations
APPROVED

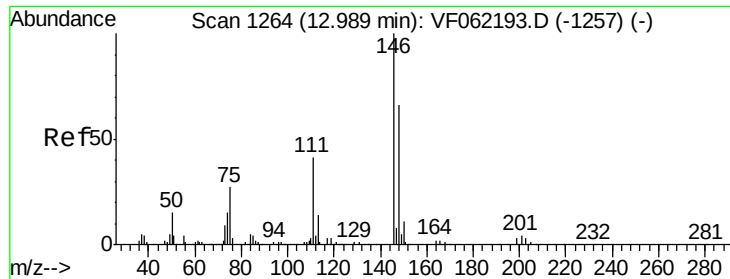
MMDadoda
4/23/2019 6:55:55 AM



#90
Hexachloroethane
Concen: 19.302 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Lower	Upper
117	100		
201	78.3	37.7	113.1





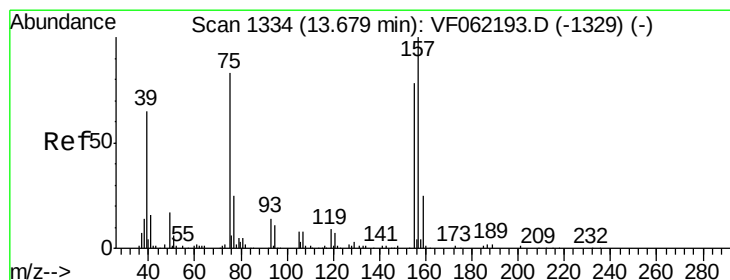
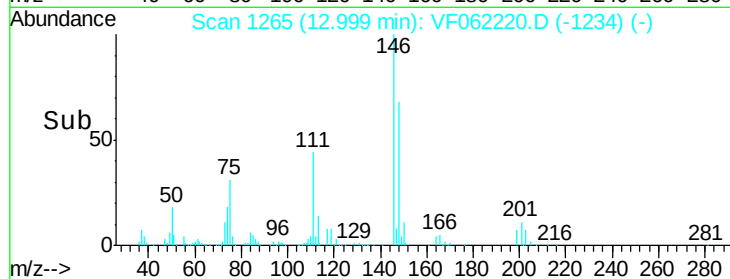
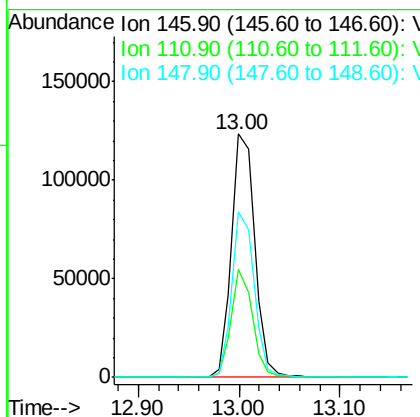
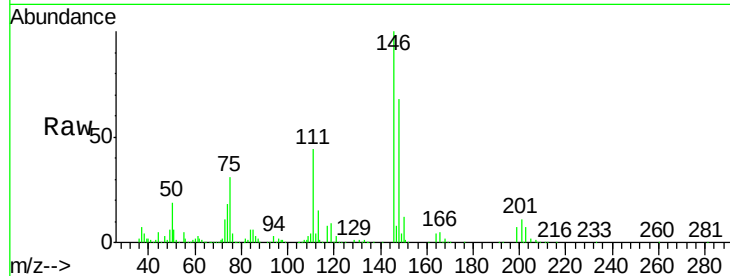
#91
 1,2-Dichlorobenzene
 Concen: 20.551 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	198971		
111	40.7	20.8	62.5	
148	65.6	33.0	99.0	

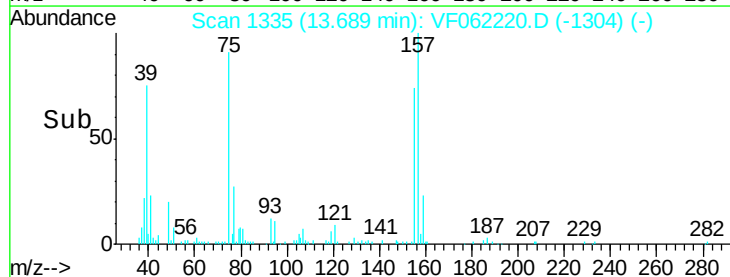
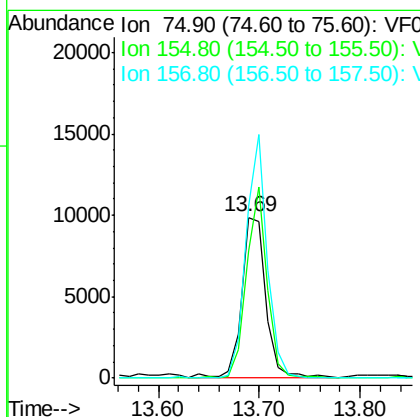
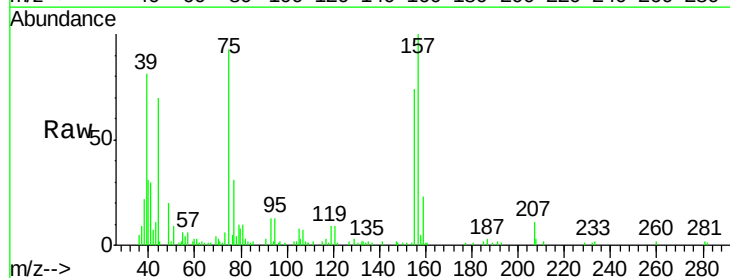
Manual Integrations
 APPROVED

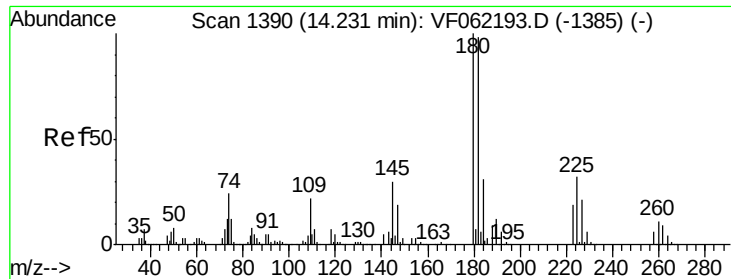
MMDadoda
 4/23/2019 6:55:55 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.512 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. 0.01 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	16629		
155	100.9	47.6	142.8	
157	130.6	61.3	183.9	





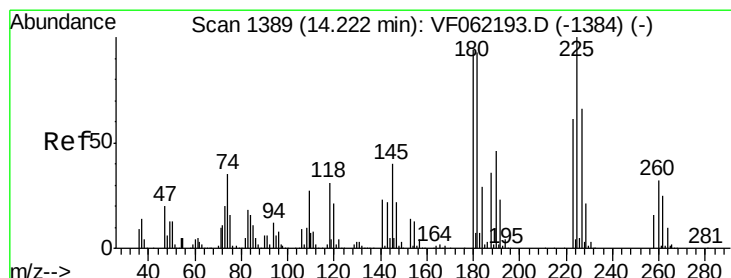
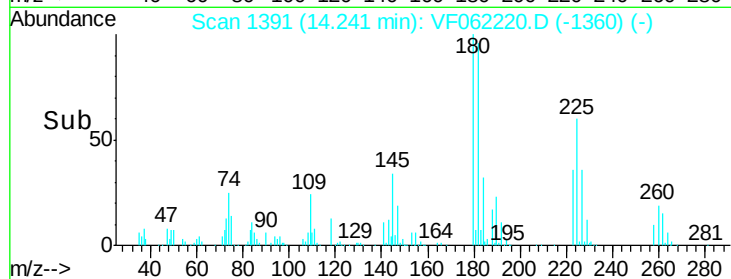
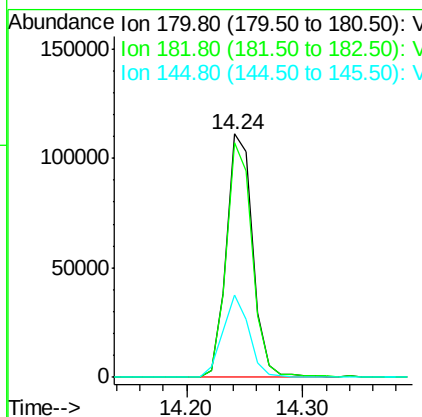
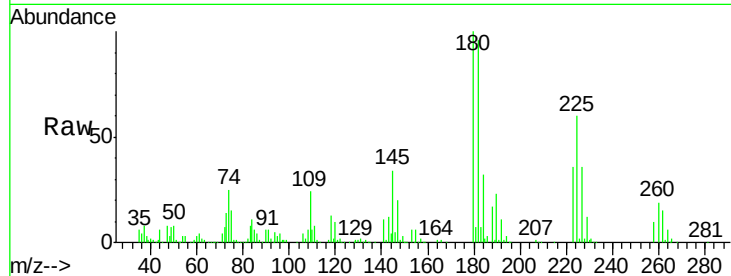
#93
 1,2,4-Trichlorobenzene
 Concen: 21.536 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	174460		
182	95.6	49.3	147.9	
145	33.7	18.1	54.4	

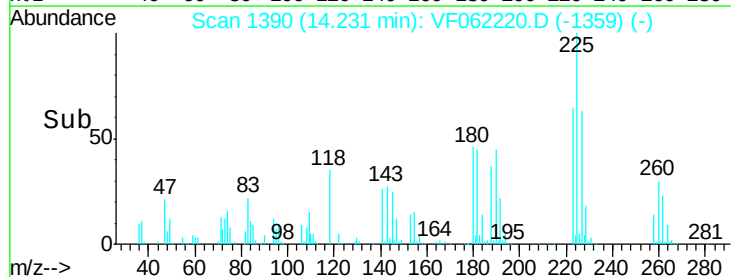
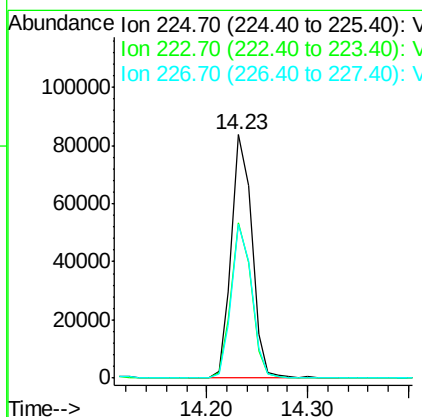
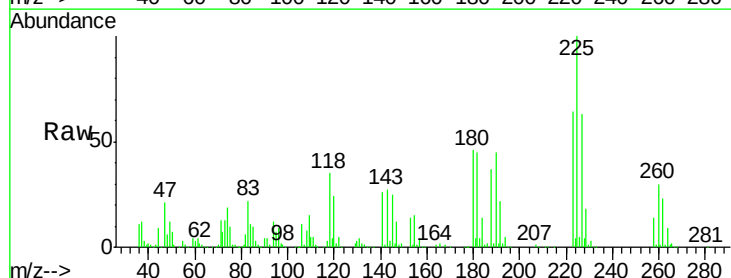
Manual Integrations
 APPROVED

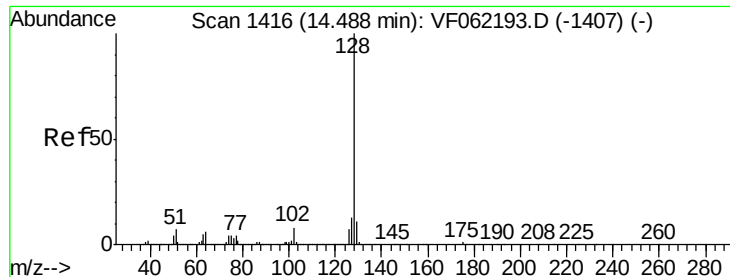
MMDadoda
 4/23/2019 6:55:55 AM



#94
 Hexachlorobutadiene
 Concen: 21.445 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062220.D
 Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	119120		
223	63.2	31.0	93.0	
227	62.6	32.4	97.0	





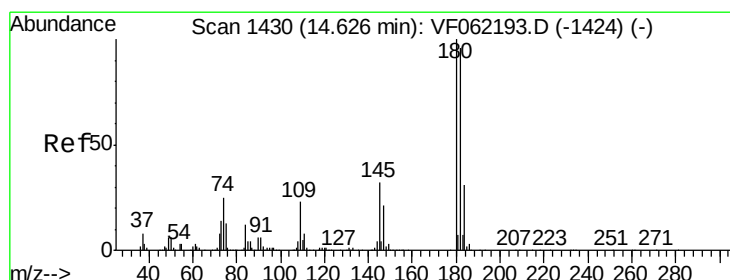
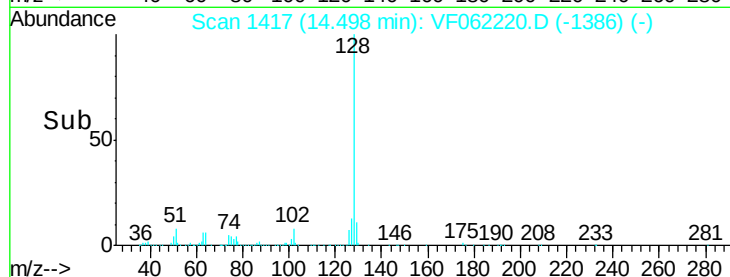
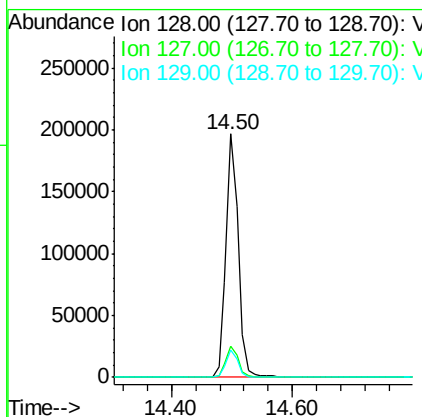
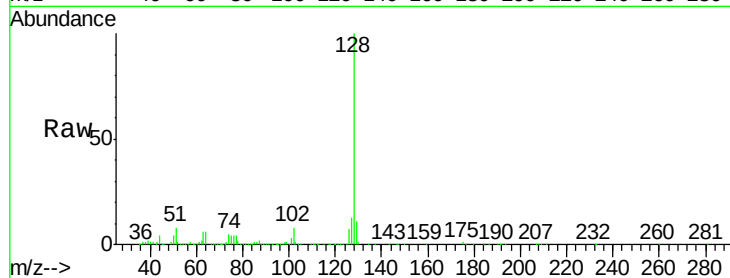
#95
Naphthalene
Concen: 19.701 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Instrument :
MSVOA_F
ClientSampled :
VF0419SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	279053		
127	13.2		10.4	15.6
129	11.0		9.2	13.8

Manual Integrations
APPROVED

MMDadoda
4/23/2019 6:55:55 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.544 ug/l
RT: 14.65 min Scan# 1432
Delta R.T. 0.02 min
Lab File: VF062220.D
Acq: 19 Apr 2019 12:58

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	167550		
182	93.8		48.4	145.3
145	30.3		15.6	46.8

