

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF042219\
 Data File : VF062238.D
 Acq On : 22 Apr 2019 11:08
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 4/24/2019 8:29:13 AM

Quant Time: Apr 23 02:32:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 23:52:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	475119	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.78	114	710597	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.91	117	559712	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	288129	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	220450	50.60	ug/l	0.02
Spiked Amount 50.000			Recovery	=	101.20%	
35) Dibromofluoromethane	4.31	113	275581	44.34	ug/l	0.02
Spiked Amount 50.000			Recovery	=	88.68%	
50) Toluene-d8	7.71	98	789959	50.21	ug/l	0.02
Spiked Amount 50.000			Recovery	=	100.42%	
62) 4-Bromofluorobenzene	11.50	95	274550	45.36	ug/l	0.02
Spiked Amount 50.000			Recovery	=	90.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.00	85	323046	44.741	ug/l	97
3) Chloromethane	1.15	50	330032	44.223	ug/l	100
4) Vinyl Chloride	1.20	62	305422	47.635	ug/l	100
5) Bromomethane	1.39	94	192970	51.809	ug/l	95
6) Chloroethane	1.45	64	137299	51.224	ug/l	99
7) Trichlorofluoromethane	1.56	101	419377	51.486	ug/l	92
8) Diethyl Ether	1.71	74	76709	45.248	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	1.91	101	272823	49.029	ug/l	99
10) Methyl Iodide	1.99	142	496068	50.182	ug/l	91
11) Tert butyl alcohol	2.70	59	60104	198.473	ug/l	99
12) 1,1-Dichloroethene	1.87	96	261689	49.444	ug/l	95
13) Acrolein	2.10	56	34661	261.740	ug/l	86
14) Allyl chloride	2.19	41	350378m	57.685	ug/l	
15) Acrylonitrile	3.09	53	227735	246.906	ug/l	98
16) Acetone	2.34	43	282336	271.127	ug/l #	78
17) Carbon Disulfide	1.92	76	715803	48.671	ug/l	99
18) Methyl Acetate	2.46	43	98646	43.179	ug/l	100
19) Methyl tert-butyl Ether	2.55	73	455622	48.758	ug/l	98
20) Methylene Chloride	2.33	84	229133m	44.057	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	250202	47.803	ug/l	97
22) Diisopropyl ether	2.94	45	728869	46.911	ug/l	97
23) Vinyl Acetate	3.35	43	1637226	221.167	ug/l	99
24) 1,1-Dichloroethane	3.01	63	415199	48.851	ug/l	98
25) 2-Butanone	4.52	43	451914	217.036	ug/l	97
26) 2,2-Dichloropropane	3.78	77	215121	50.132	ug/l	96
27) cis-1,2-Dichloroethene	3.65	96	313431	46.243	ug/l	97
28) Bromochloromethane	3.90	49	175954	43.216	ug/l #	91
29) Tetrahydrofuran	4.26	42	183113	194.289	ug/l	98
30) Chloroform	4.06	83	498902	47.762	ug/l	98
31) Cyclohexane	3.88	56	445767	43.764	ug/l	99
32) 1,1,1-Trichloroethane	4.29	97	383186	50.117	ug/l #	87
36) 1,1-Dichloropropene	4.48	75	389616	45.731	ug/l	100
37) Ethyl Acetate	4.30	43	151338	37.644	ug/l #	99
38) Carbon Tetrachloride	4.19	117	340771m	45.189	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.64	83	506298	49.634	ug/l	95
40) Benzene	4.83	78	1008144	45.114	ug/l	98
41) Methacrylonitrile	4.94	41	95479	41.173	ug/l #	66
42) 1,2-Dichloroethane	5.13	62	283424	47.976	ug/l	99
43) Isopropyl Acetate	7.11	43	176392	41.717	ug/l #	99
44) Trichloroethene	5.69	130	326015	53.989	ug/l	95
45) 1,2-Dichloropropane	6.41	63	234404	47.620	ug/l	96
46) Dibromomethane	6.27	93	161908	49.438	ug/l	95
47) Bromodichloromethane	6.56	83	358386	48.493	ug/l #	98
48) Methyl methacrylate	6.88	41	113043	40.681	ug/l	97
49) 1,4-Dioxane	6.87	88	25085	787.141	ug/l	95
51) 4-Methyl-2-Pentanone	8.40	43	657548	209.080	ug/l	98
52) Toluene	7.78	92	610617	51.837	ug/l	99
53) t-1,3-Dichloropropene	8.42	75	256091	46.135	ug/l	100
54) cis-1,3-Dichloropropene	7.47	75	381965	50.872	ug/l	95
55) 1,1,2-Trichloroethane	8.64	97	159282	48.269	ug/l	95
56) Ethyl methacrylate	8.76	69	172084	45.867	ug/l	98
57) 1,3-Dichloropropane	9.00	76	259509	48.701	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.45	63	244166	224.152	ug/l	93
59) 2-Hexanone	9.63	43	456704	232.879	ug/l	96
60) Dibromochloromethane	8.86	129	263984	53.791	ug/l	97
61) 1,2-Dibromoethane	9.13	107	192447	51.764	ug/l	98
64) Tetrachloroethene	8.31	164	255466	50.561	ug/l	98
65) Chlorobenzene	9.93	112	618853	51.853	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.06	131	284652	50.931	ug/l	99
67) Ethyl Benzene	10.03	91	1045469	48.174	ug/l	97
68) m/p-Xylenes	10.26	106	787757	98.605	ug/l	93
69) o-Xylene	10.82	106	433365	48.858	ug/l	99
70) Styrene	10.89	104	582267	46.517	ug/l	99
71) Bromoform	10.88	173	139038	47.118	ug/l #	98
73) Isopropylbenzene	11.21	105	1184612	47.862	ug/l	98
74) N-amyl acetate	11.45	43	266578	45.183	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.77	83	195034	45.820	ug/l	98
76) 1,2,3-Trichloropropane	11.86	75	125764	42.945	ug/l #	64
77) Bromobenzene	11.58	156	282740	53.327	ug/l	91
78) n-propylbenzene	11.67	91	1252624	47.976	ug/l	97
79) 2-Chlorotoluene	11.80	91	759267	47.940	ug/l	96
80) 1,3,5-Trimethylbenzene	11.89	105	988450	47.950	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.94	75	66787m	44.718	ug/l	
82) 4-Chlorotoluene	11.97	91	729367	47.652	ug/l	96
83) tert-Butylbenzene	12.20	119	1061402	49.790	ug/l	98
84) 1,2,4-Trimethylbenzene	12.27	105	961281	48.189	ug/l	97
85) sec-Butylbenzene	12.37	105	1326011	47.912	ug/l	98
86) p-Isopropyltoluene	12.52	119	1138423	48.492	ug/l	99
87) 1,3-Dichlorobenzene	12.54	146	487956	49.595	ug/l	98
88) 1,4-Dichlorobenzene	12.62	146	481896	50.778	ug/l	98
89) n-Butylbenzene	12.90	91	1058296	55.370	ug/l	97
90) Hexachloroethane	12.98	117	302404	50.162	ug/l	91
91) 1,2-Dichlorobenzene	13.00	146	481162	50.647	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.69	75	35784	42.789	ug/l	80

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QLast Update : Fri Apr 19 23:52:01 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	400122	50.337	ug/l	99
94) Hexachlorobutadiene	14.23	225	289053	53.033	ug/l	99
95) Naphthalene	14.50	128	702070	50.513	ug/l	100
96) 1,2,3-Trichlorobenzene	14.63	180	392752	51.467	ug/l	99

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

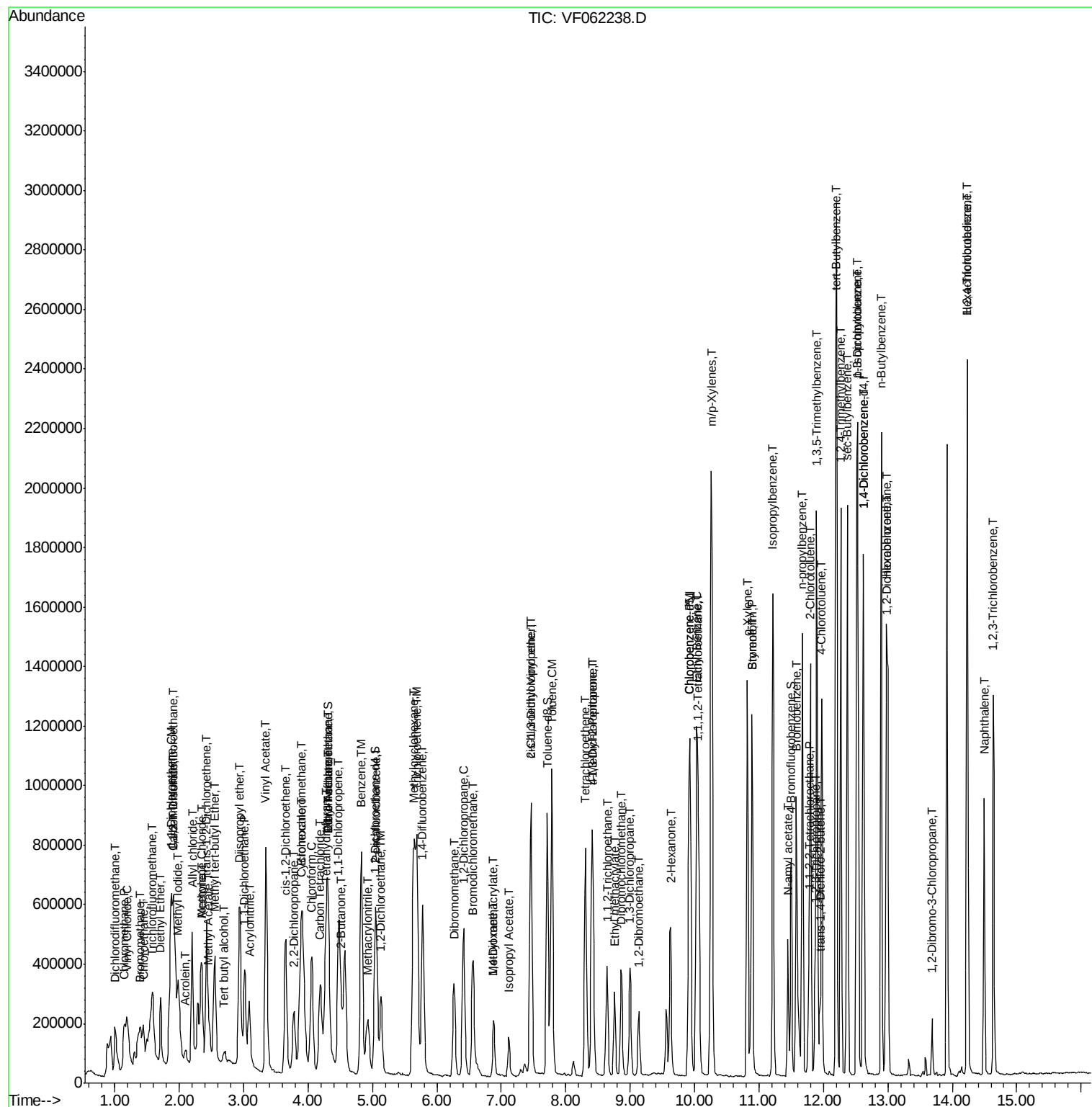
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF042219\
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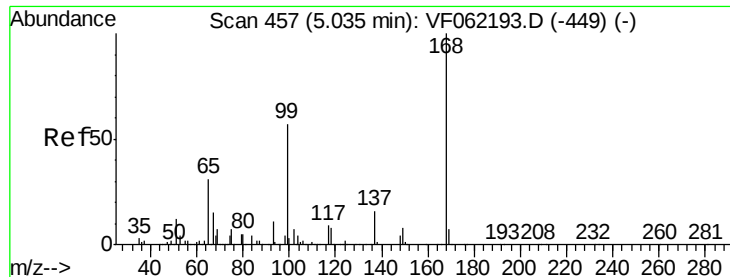
Instrument :
 MSVOA_F
 ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 475119

Ion Ratio Lower Upper

168 100

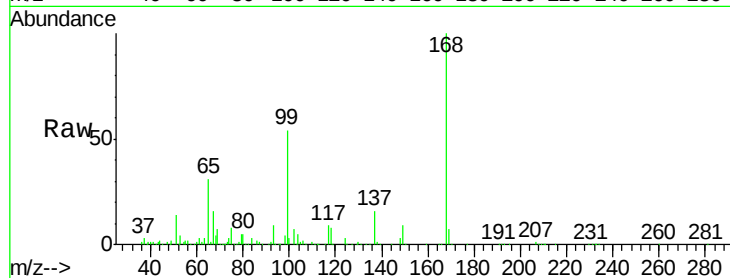
99 54.4 45.5 68.3

Manual Integrations

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4/24/2019 8:29:13 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.05

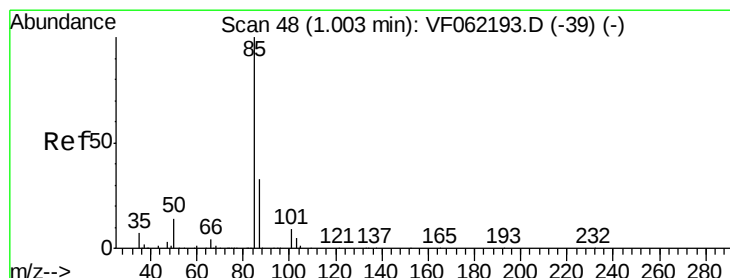
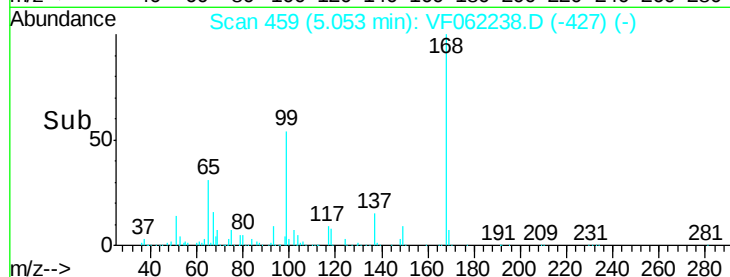
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 44.741 ug/l

RT: 1.00 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062238.D

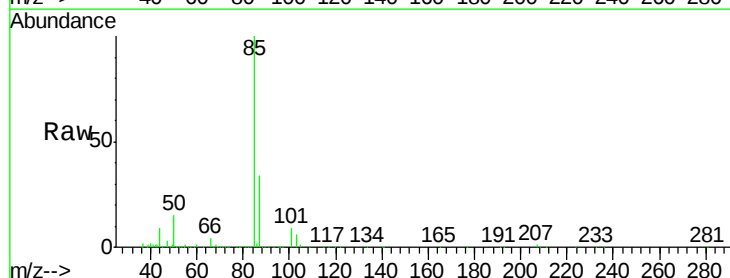
Acq: 22 Apr 2019 11:08

Tgt Ion: 85 Resp: 323046

Ion Ratio Lower Upper

85 100

87 34.2 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

100000

80000

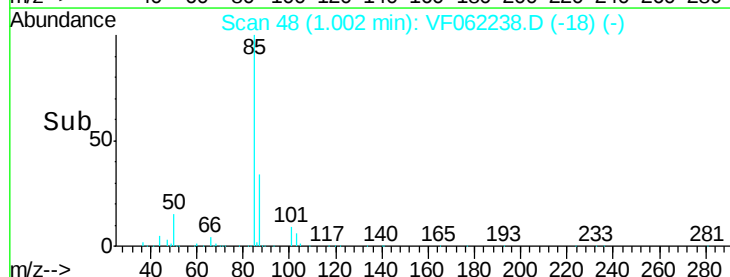
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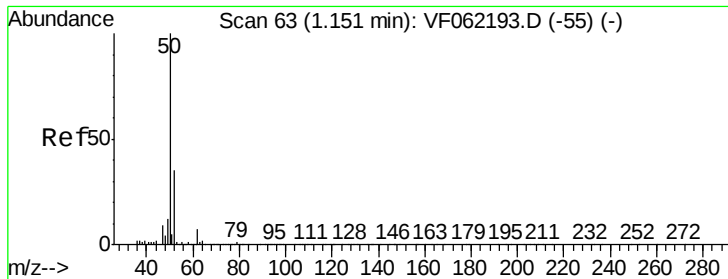
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20000

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Time-->





#3

Chloromethane

Concen: 44.223 ug/l

RT: 1.15 min Scan# 63

Delta R.T. -0.00 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 330032

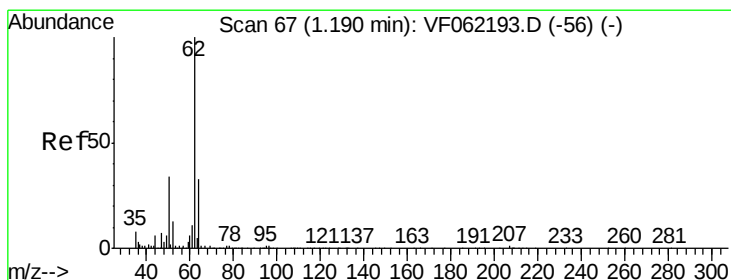
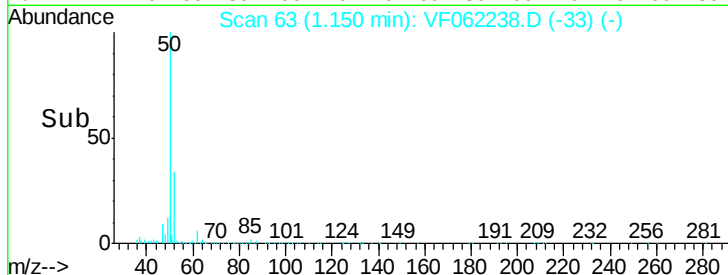
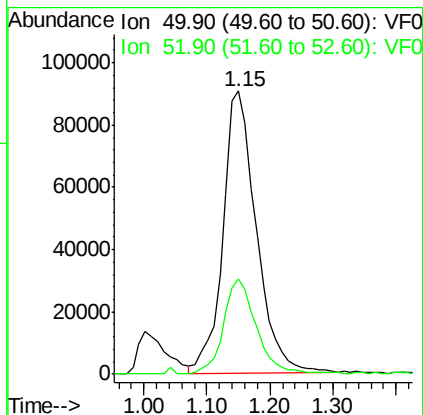
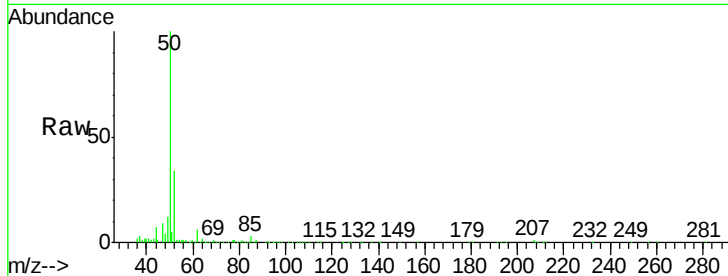
Ion Ratio Lower Upper

50 100

52 33.9 27.0 40.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 47.635 ug/l

RT: 1.20 min Scan# 68

Delta R.T. 0.01 min

Lab File: VF062238.D

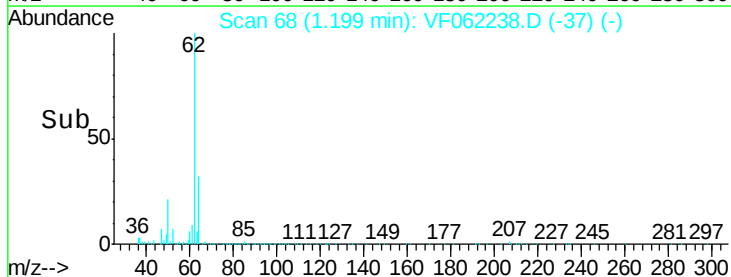
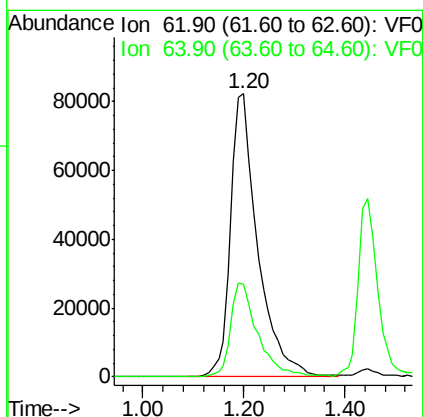
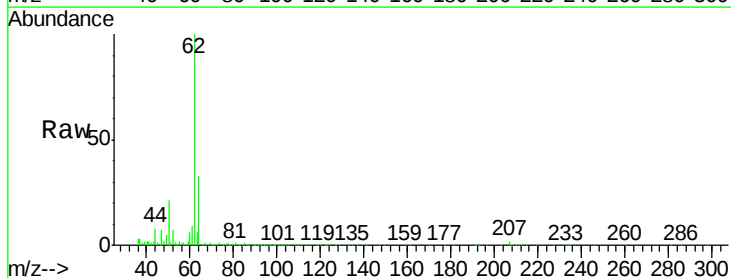
Acq: 22 Apr 2019 11:08

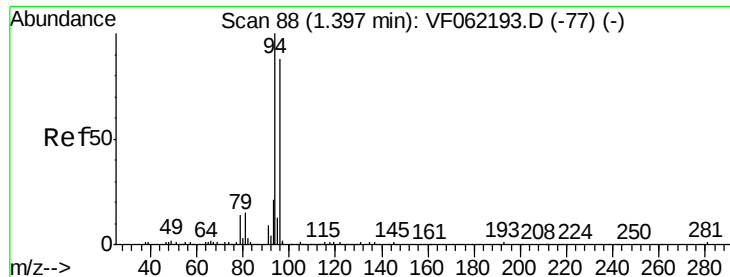
Tgt Ion: 62 Resp: 305422

Ion Ratio Lower Upper

62 100

64 32.6 26.2 39.4





#5

Bromomethane

Concen: 51.809 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 192970

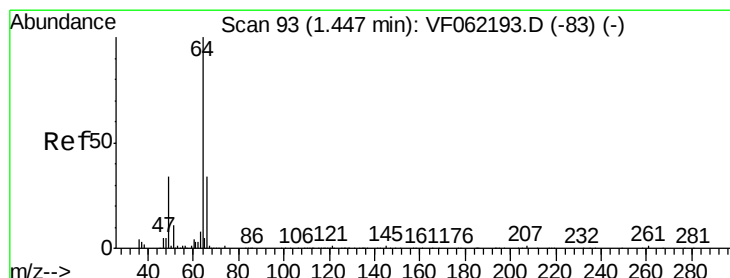
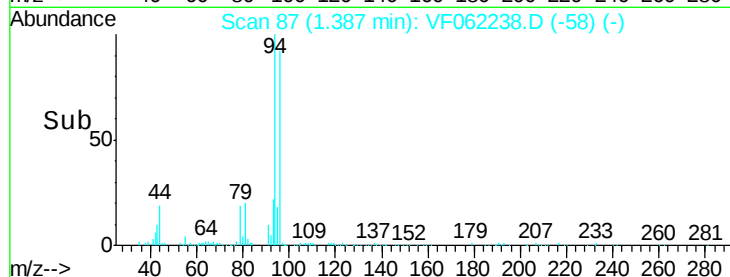
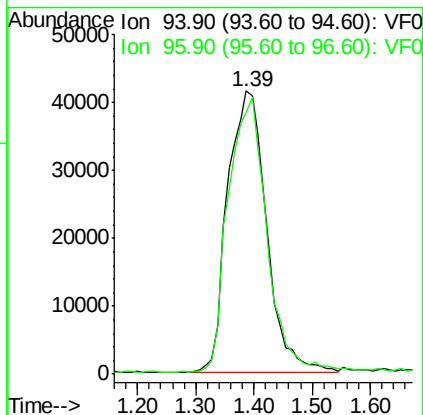
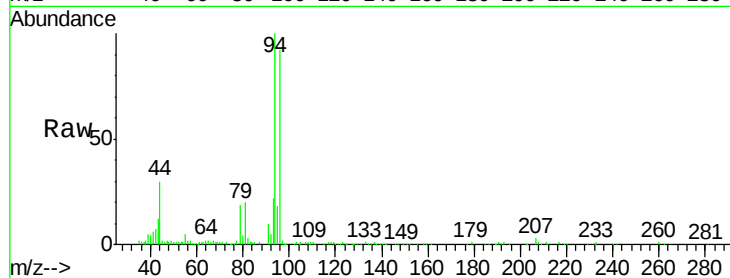
Ion Ratio Lower Upper

94 100

96 92.0 70.2 105.4

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#6

Chloroethane

Concen: 51.224 ug/l

RT: 1.45 min Scan# 93

Delta R.T. -0.00 min

Lab File: VF062238.D

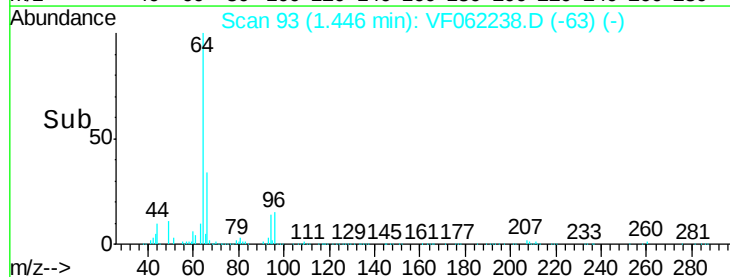
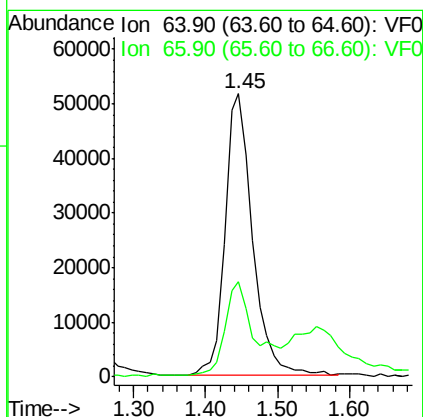
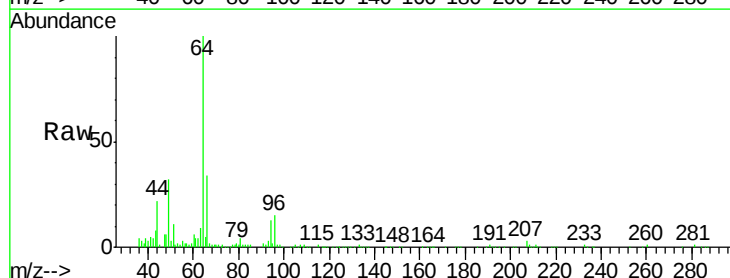
Acq: 22 Apr 2019 11:08

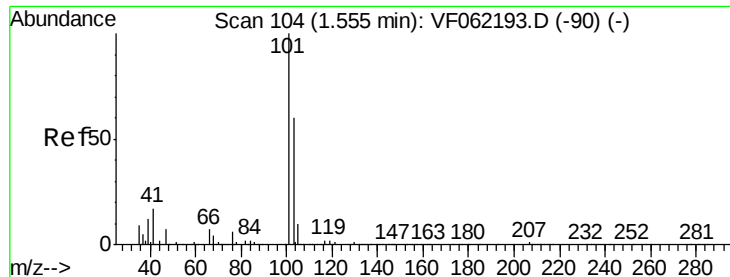
Tgt Ion: 64 Resp: 137299

Ion Ratio Lower Upper

64 100

66 33.2 27.0 40.4





#7

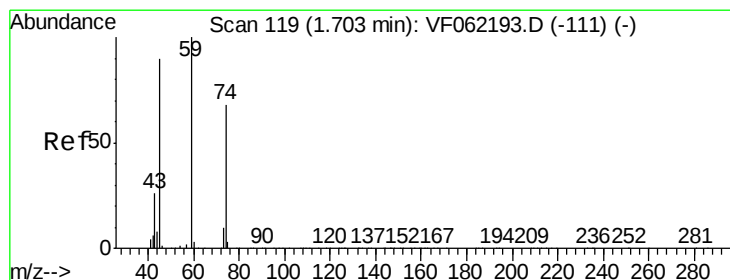
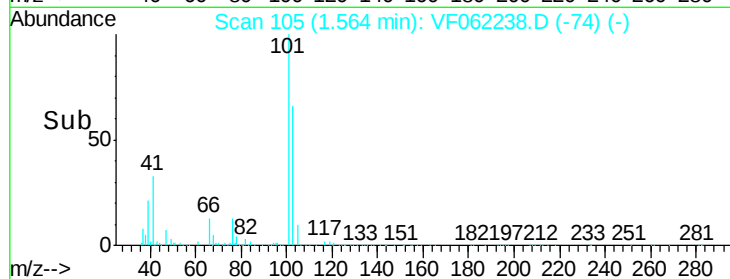
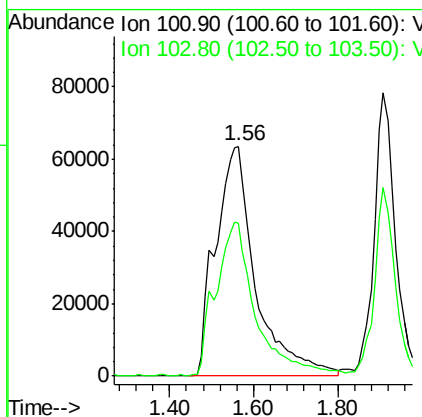
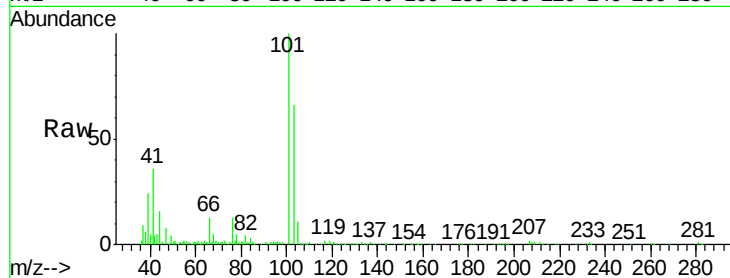
Trichlorofluoromethane
Concen: 51.486 ug/l
RT: 1.56 min Scan# 105
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		419377		
103	66.1	48.2	72.4		

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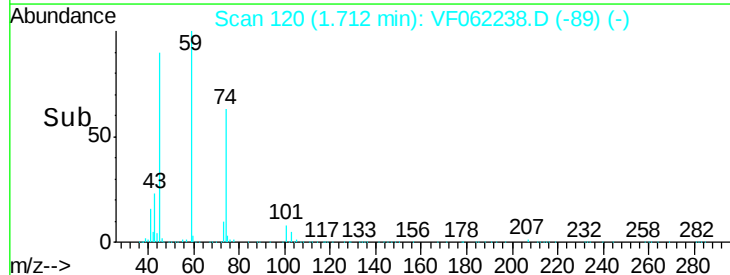
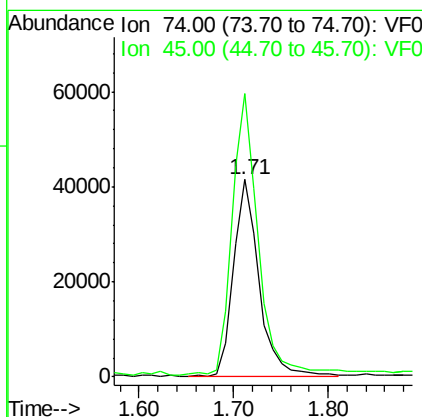
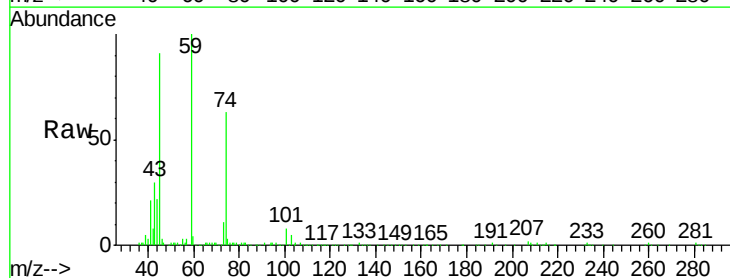
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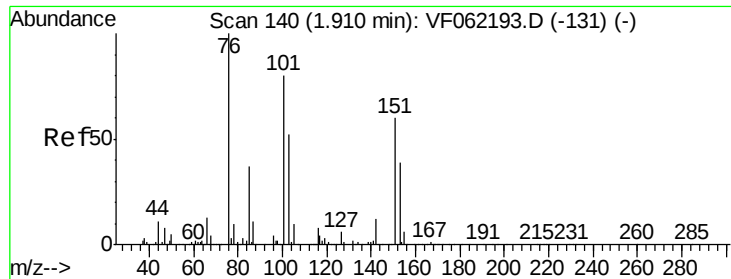


#8

Diethyl Ether
Concen: 45.248 ug/l
RT: 1.71 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		76709		
45	149.4	70.0	210.2		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.029 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

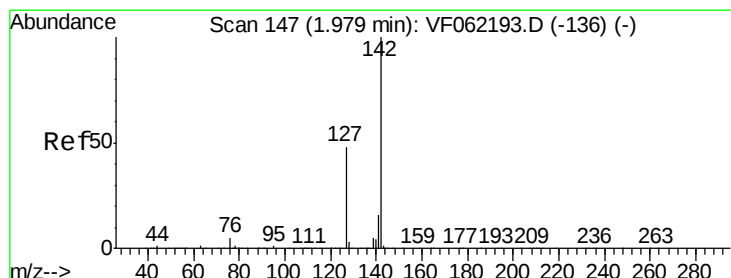
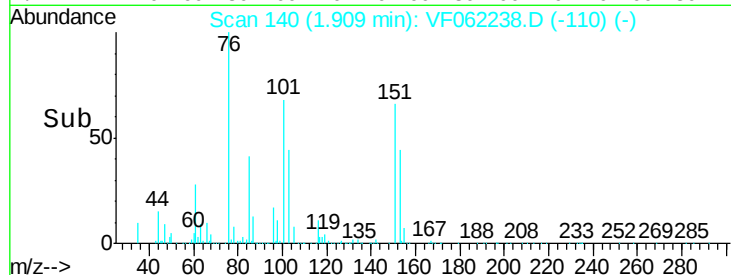
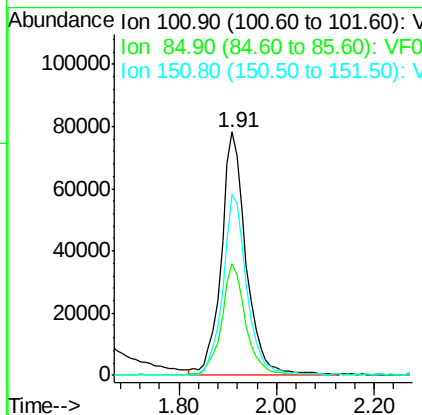
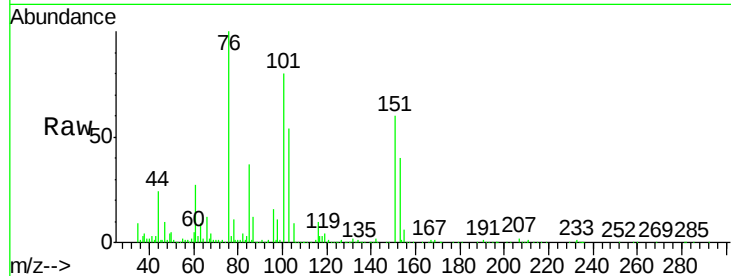
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	272823
Ion Ratio	Lower	Upper	
101	100		
85	44.4	35.3	52.9
151	73.0	57.5	86.3

Manual Integrations
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#10

Methyl Iodide

Concen: 50.182 ug/l

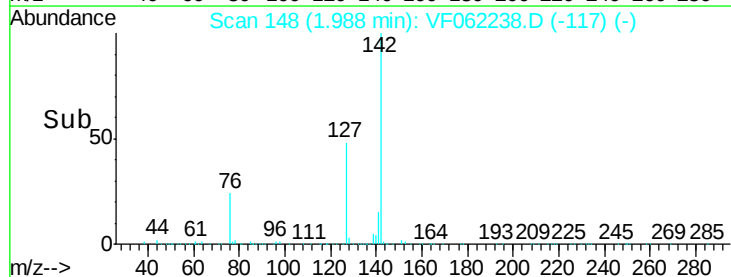
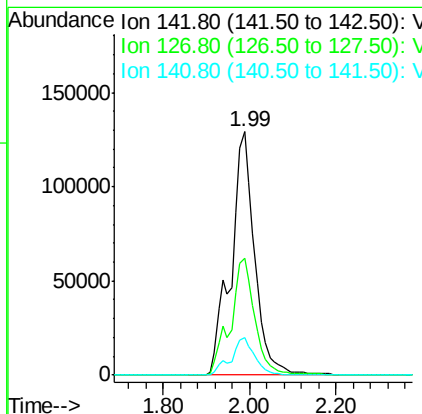
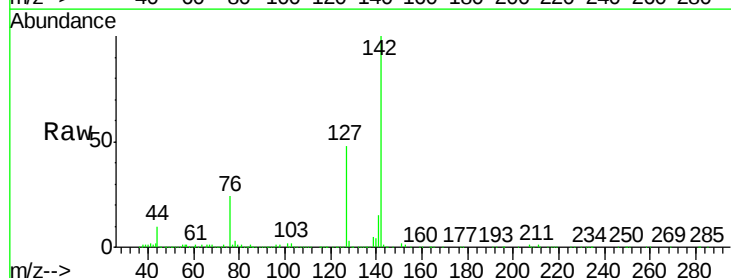
RT: 1.99 min Scan# 148

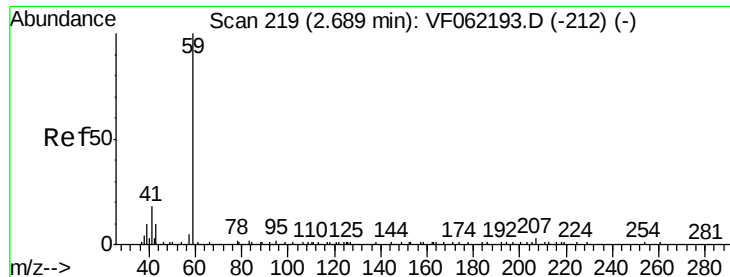
Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Tgt Ion:	142	Resp:	496068
Ion Ratio	Lower	Upper	
142	100		
127	49.0	33.0	49.4
141	15.1	12.7	19.1





#11

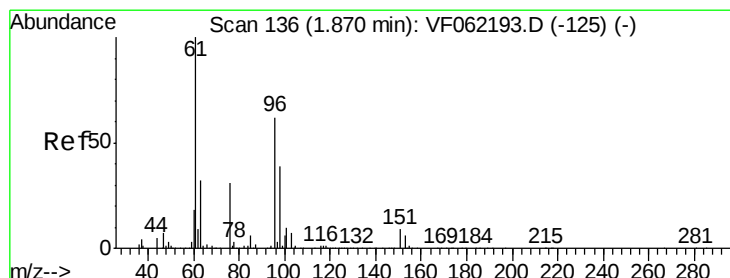
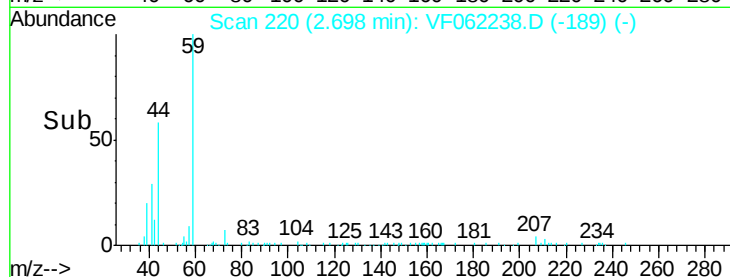
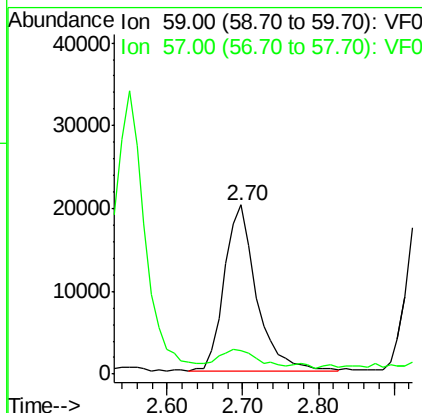
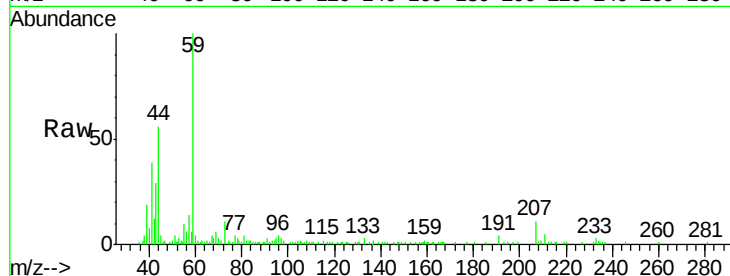
Tert butyl alcohol
Concen: 198.473 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.8	9.3	13.9

Manual Integrations
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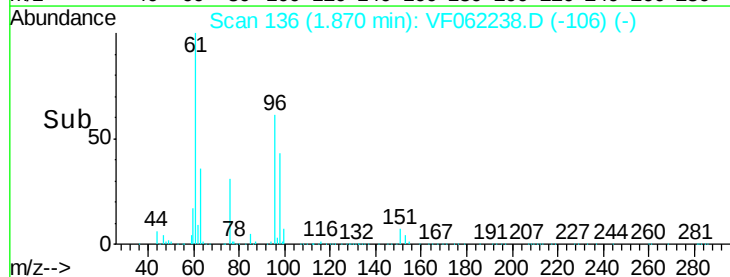
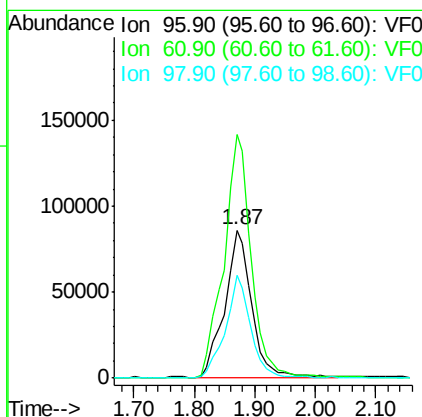
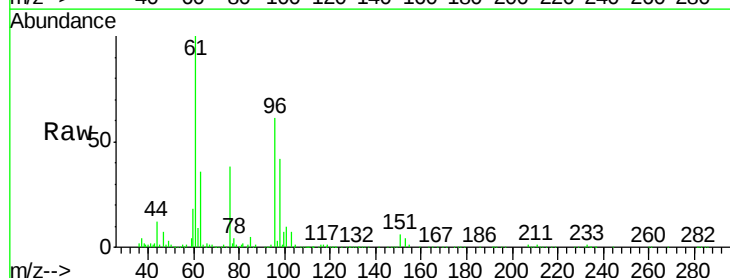
MMDadoda
4/24/2019 8:29:13 AM

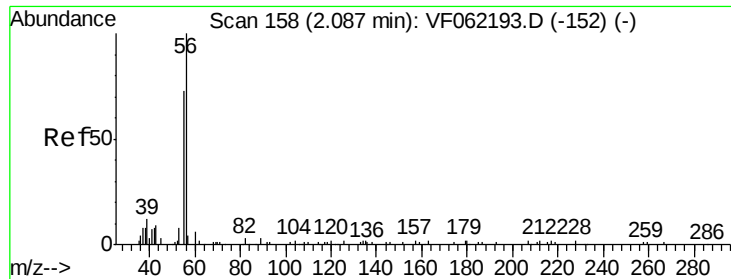


#12

1,1-Dichloroethene
Concen: 49.444 ug/l
RT: 1.87 min Scan# 136
Delta R.T. -0.00 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.0	129.1	193.7
98	69.8	50.0	75.0





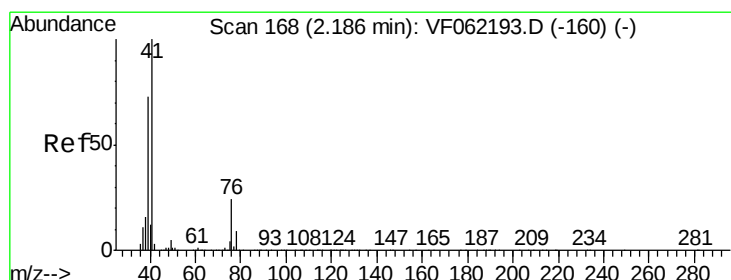
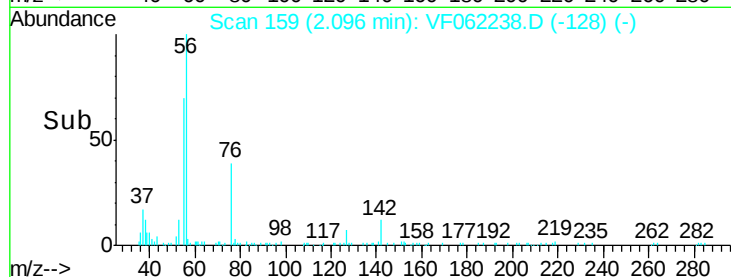
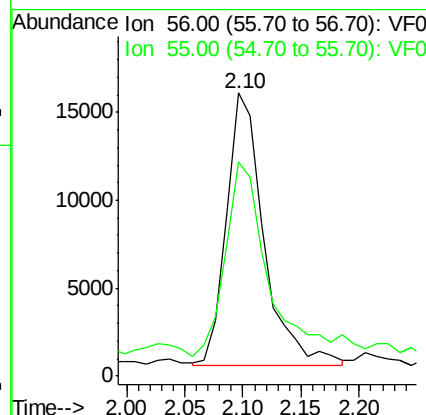
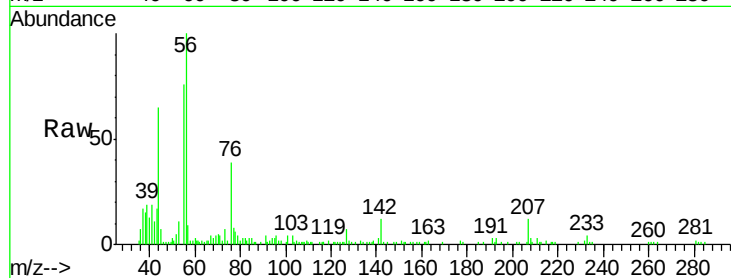
#13
Acrolein
Concen: 261.740 ug/l
RT: 2.10 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
55	83.3	57.4	86.0

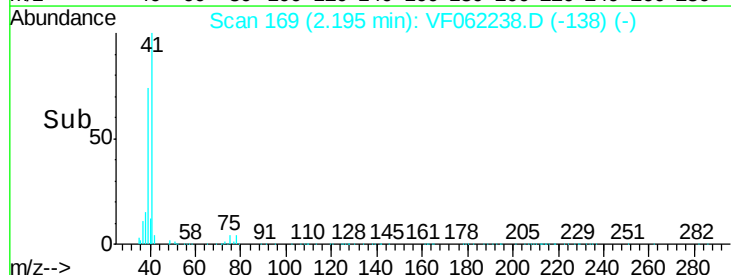
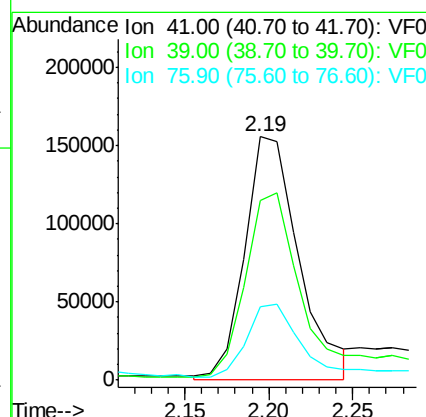
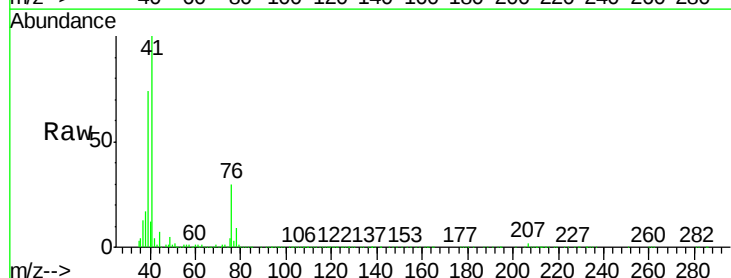
Manual Integrations
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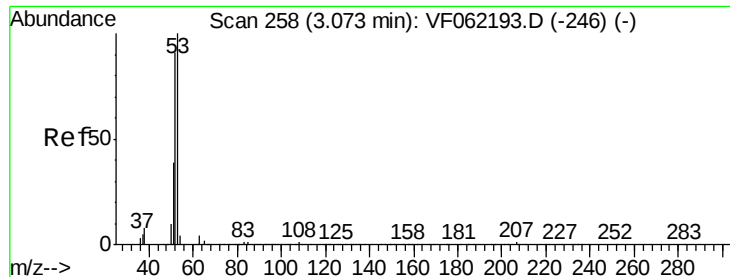
MMDadoda
4/24/2019 8:29:13 AM



#14
Allyl chloride
Concen: 57.685 ug/l m
RT: 2.19 min Scan# 169
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
41	100		
39	88.2	60.0	90.0
76	37.7	20.6	30.8#





#15

Acrylonitrile

Concen: 246.906 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

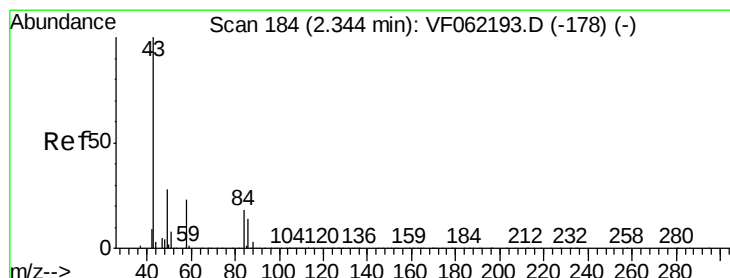
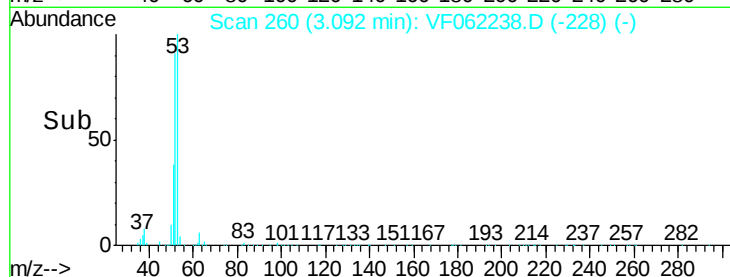
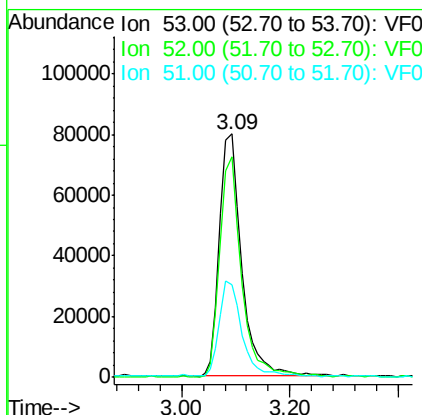
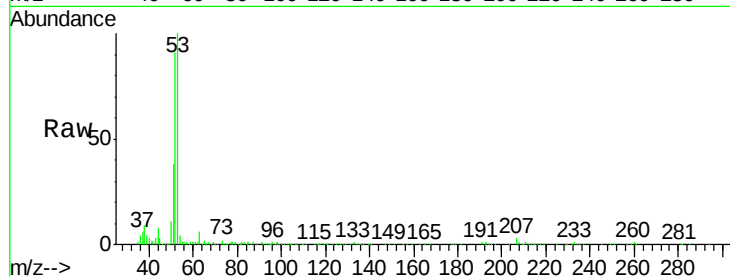
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	227735
Ion	Ratio	Lower	Upper
53	100		
52	89.4	69.5	104.3
51	40.2	31.8	47.8

Manual Integrations
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#16

Acetone

Concen: 271.127 ug/l

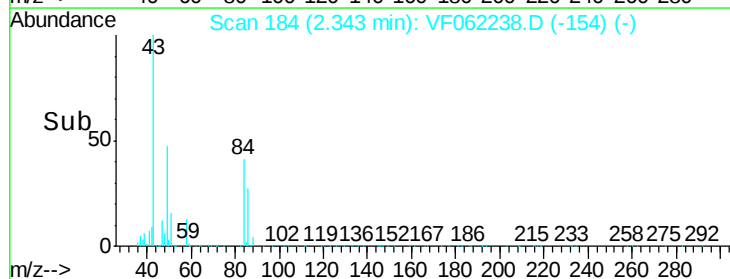
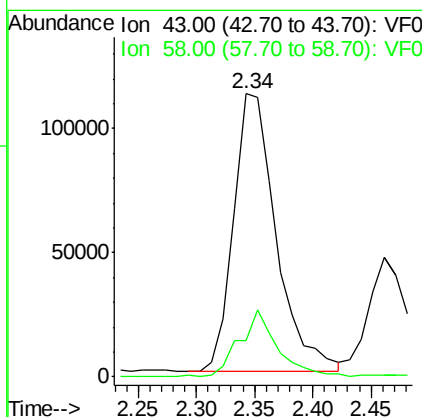
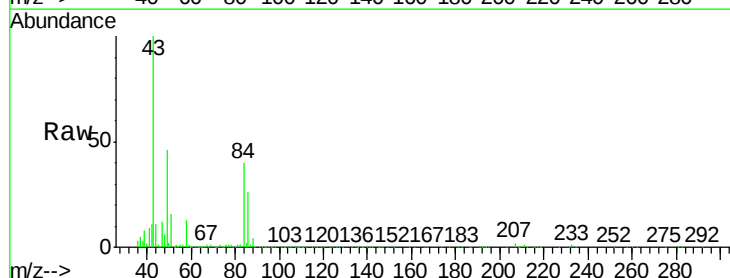
RT: 2.34 min Scan# 184

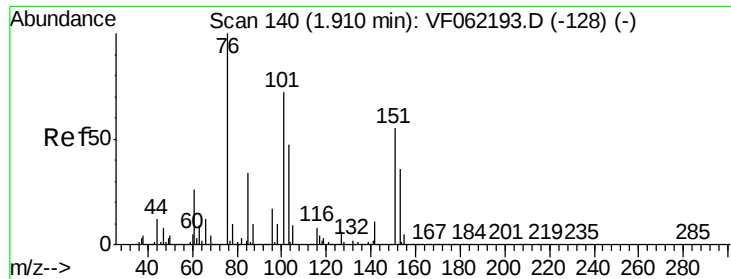
Delta R.T. -0.00 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Tgt Ion:	43	Resp:	282336
Ion	Ratio	Lower	Upper
43	100		
58	12.8	18.8	28.2#





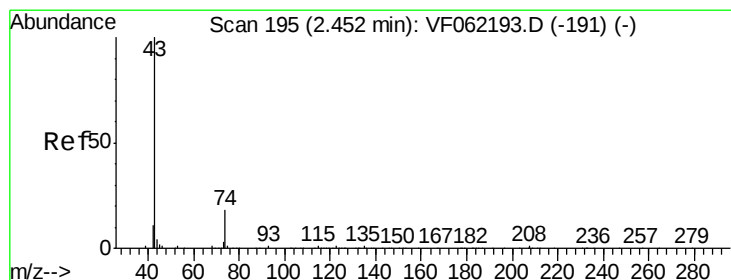
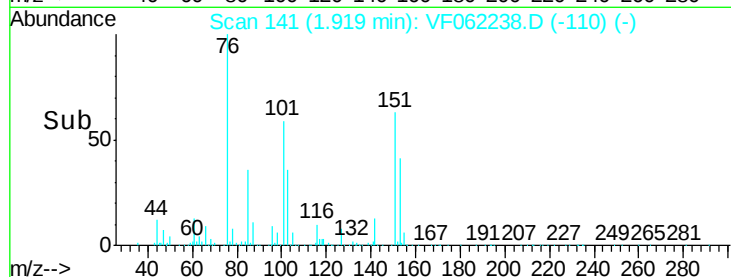
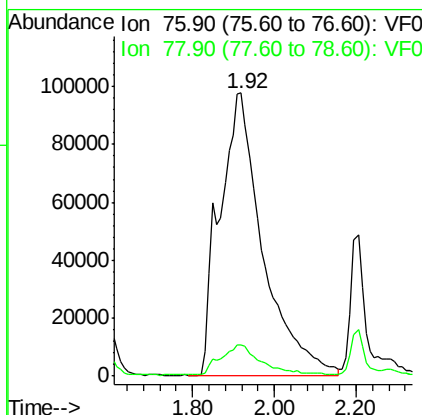
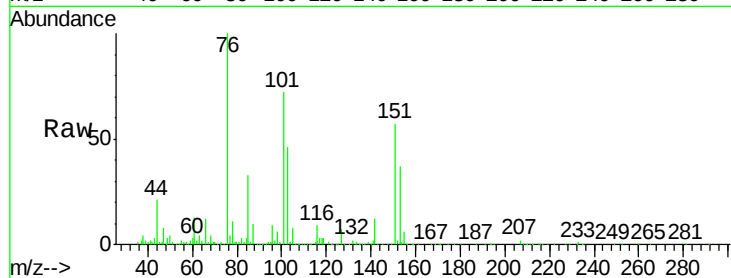
#17
Carbon Disulfide
Concen: 48.671 ug/l
RT: 1.92 min Scan# 141
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 76 Resp: 715803
Ion Ratio Lower Upper
76 100
78 10.6 8.7 13.1

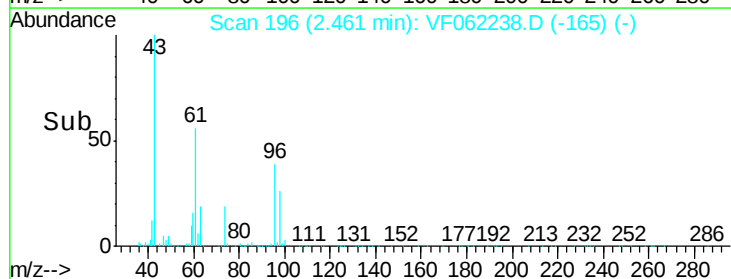
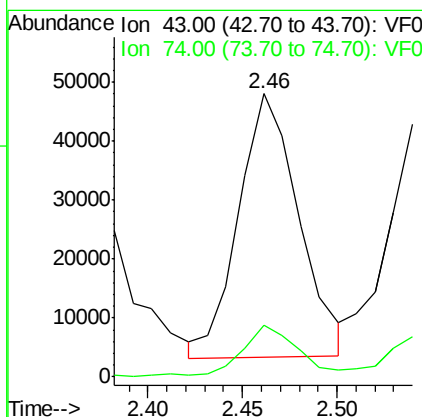
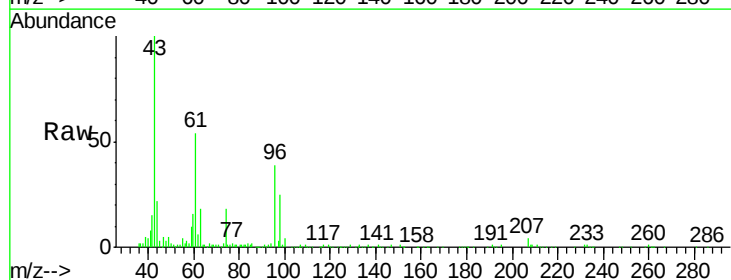
Manual Integrations
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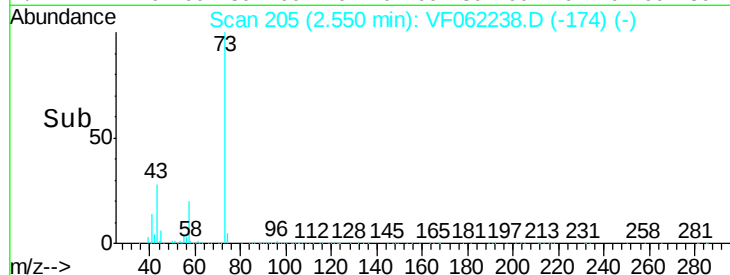
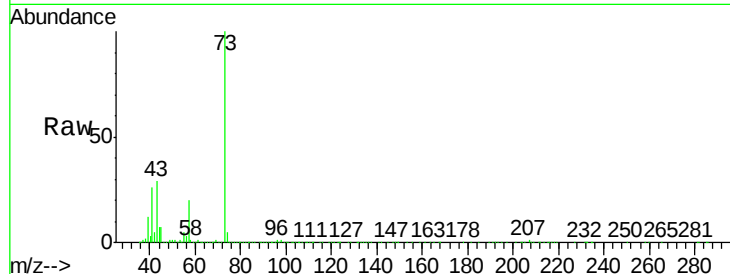
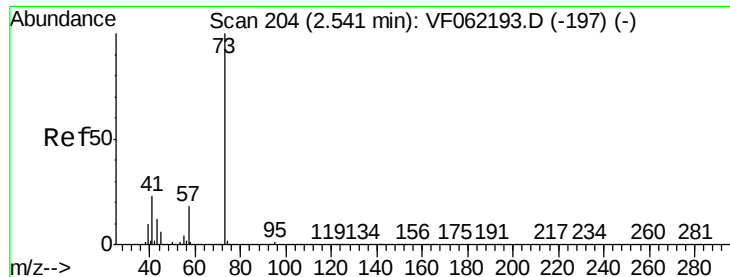
MMDadoda
4/24/2019 8:29:13 AM



#18
Methyl Acetate
Concen: 43.179 ug/l
RT: 2.46 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion: 43 Resp: 98646
Ion Ratio Lower Upper
43 100
74 18.0 14.5 21.7





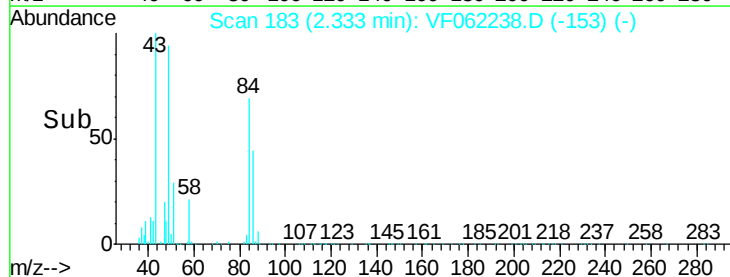
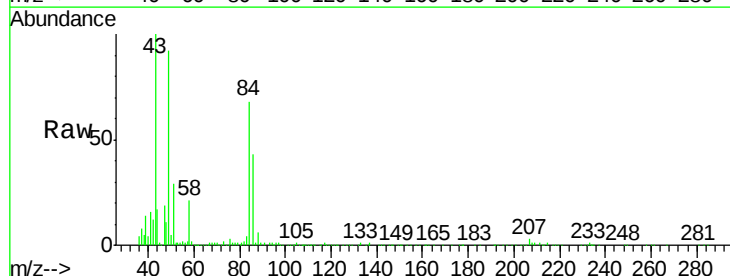
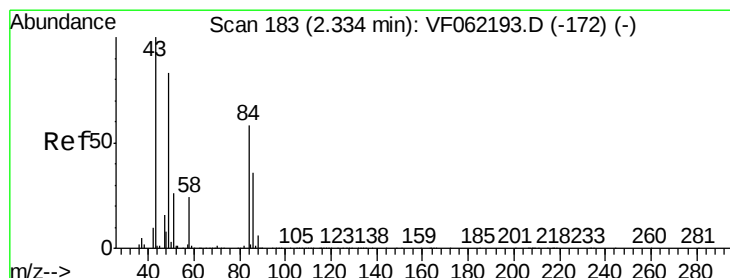
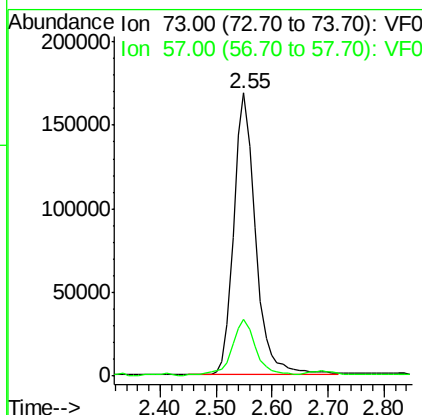
#19
Methvl tert-butvl Ether
Concen: 48.758 ug/l
RT: 2.55 min Scan# 205
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.7	15.1	22.7

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

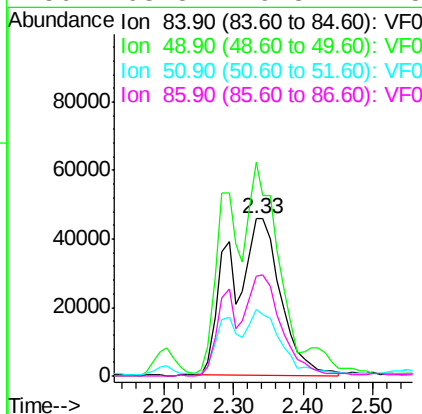
Manual Integrations
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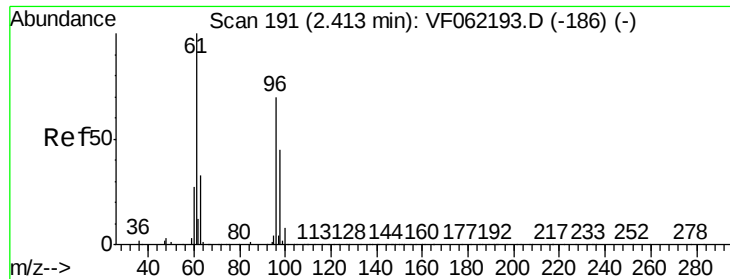
MMDadoda
4/24/2019 8:29:13 AM



#20
Methylene Chloride
Concen: 44.057 ug/l m
RT: 2.33 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
84	100		
49	135.8	114.0	171.0
51	42.5	37.0	55.4
86	63.8	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 47.803 ug/l

RT: 2.42 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

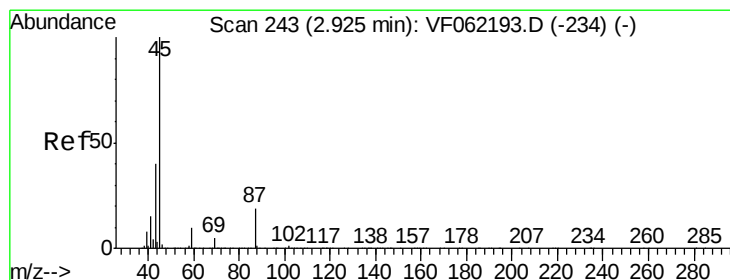
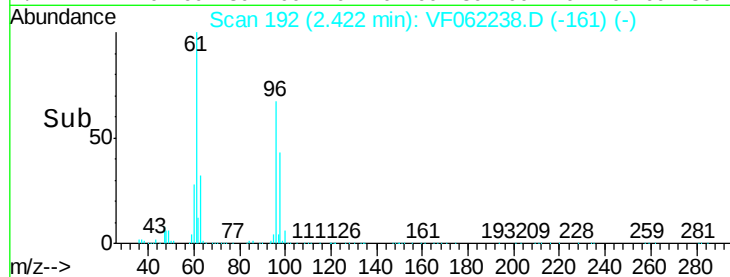
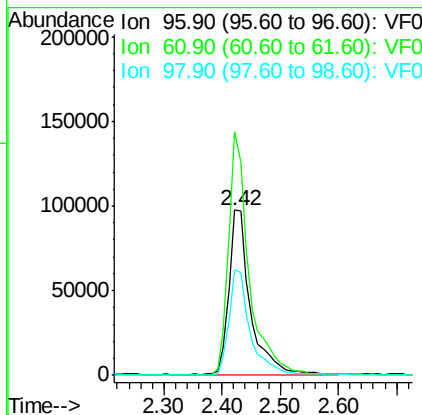
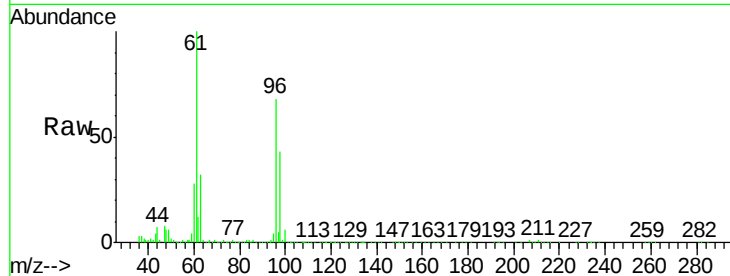
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	250202
Ion Ratio	Lower	Upper	
96	100		
61	148.0	114.6	172.0
98	63.9	51.2	76.8

Manual Integrations
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4/24/2019 8:29:13 AM



#22

Diisopropyl ether

Concen: 46.911 ug/l

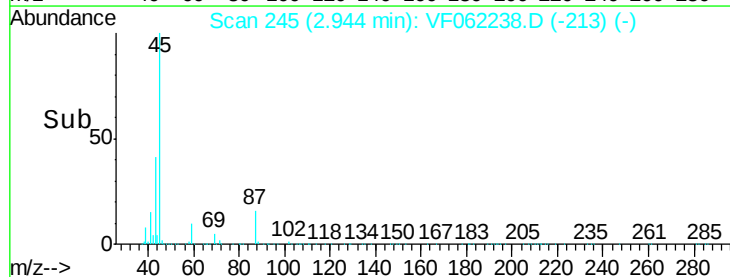
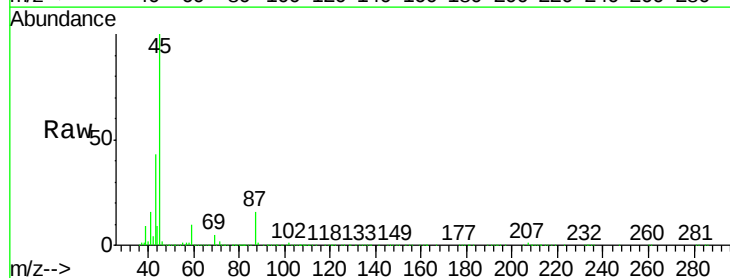
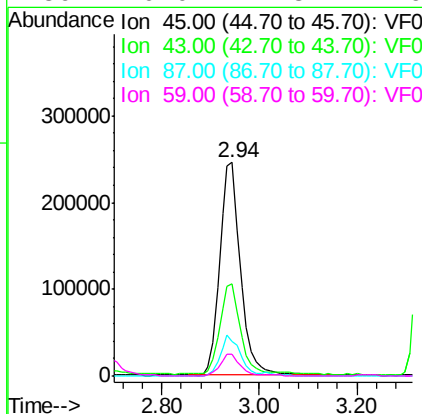
RT: 2.94 min Scan# 245

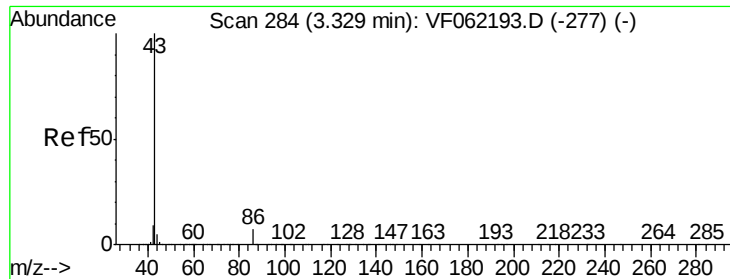
Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Tgt Ion:	45	Resp:	728869
Ion Ratio	Lower	Upper	
45	100		
43	42.2	32.8	49.2
87	16.2	15.2	22.8
59	10.0	7.8	11.6





#23

Vinyl Acetate

Concen: 221.167 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1637226

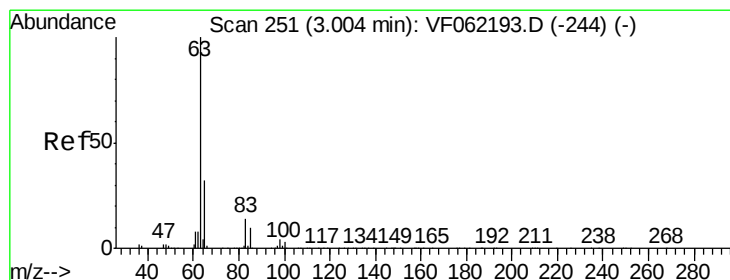
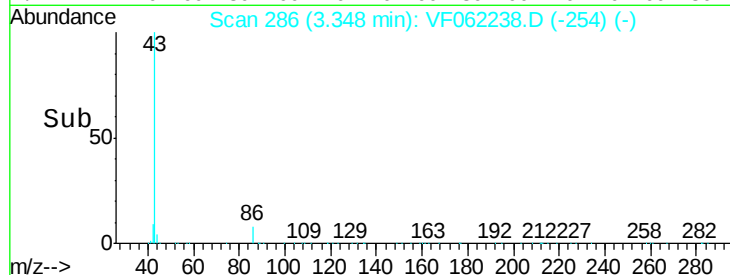
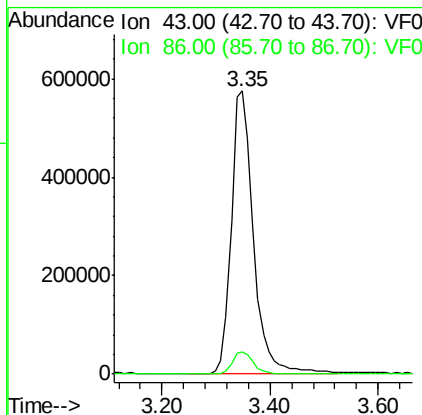
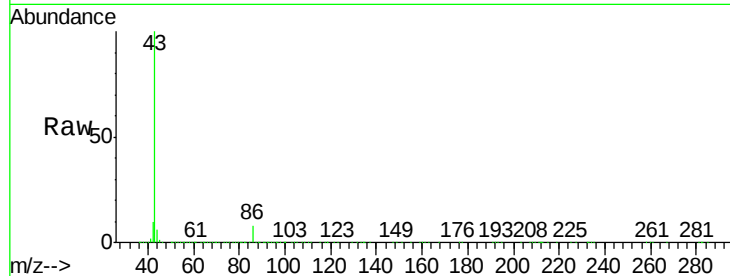
Ion Ratio Lower Upper

43 100

86 7.8 5.9 8.9

Manual Integrations
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MMDadoda
4/24/2019 8:29:13 AM



#24

1,1-Dichloroethane

Concen: 48.851 ug/l

RT: 3.01 min Scan# 252

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

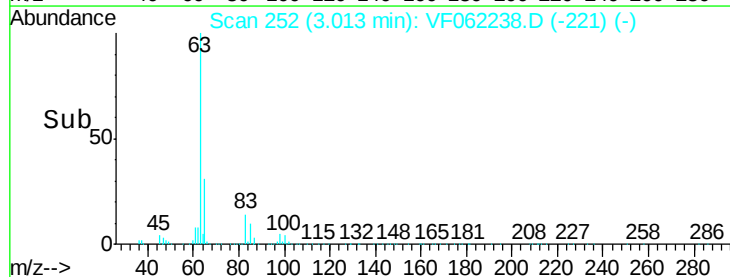
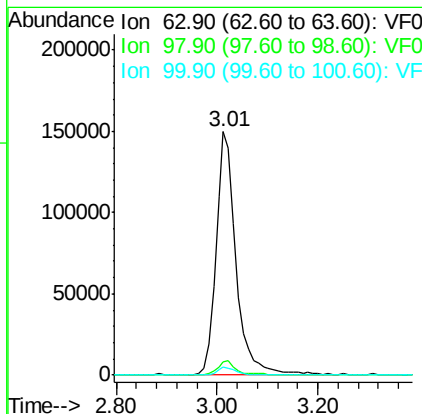
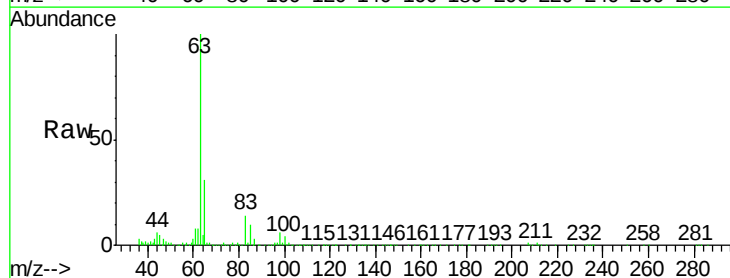
Tgt Ion: 63 Resp: 415199

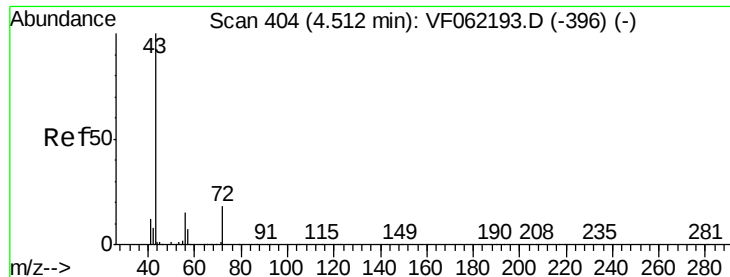
Ion Ratio Lower Upper

63 100

98 5.4 2.3 6.8

100 3.5 1.7 5.0





#25

2-Butanone

Concen: 217.036 ug/l

RT: 4.52 min Scan# 405

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 451914

Ion Ratio Lower Upper

43 100

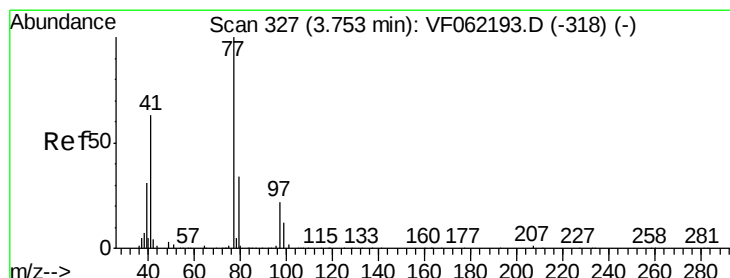
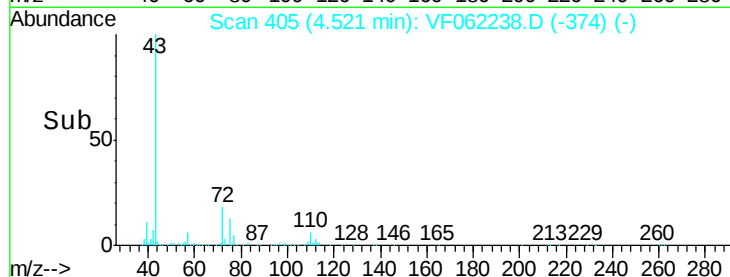
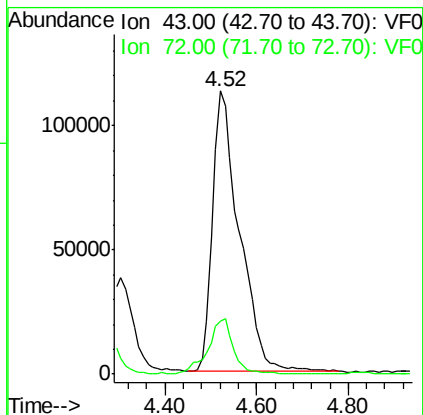
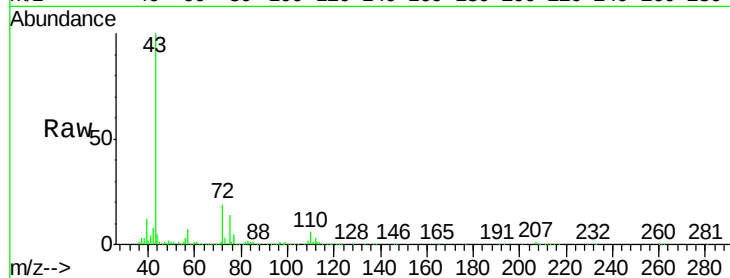
72 18.7 16.1 24.1

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#26

2,2-Dichloropropane

Concen: 50.132 ug/l

RT: 3.78 min Scan# 330

Delta R.T. 0.03 min

Lab File: VF062238.D

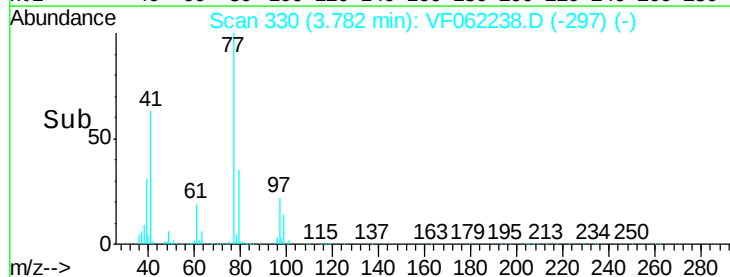
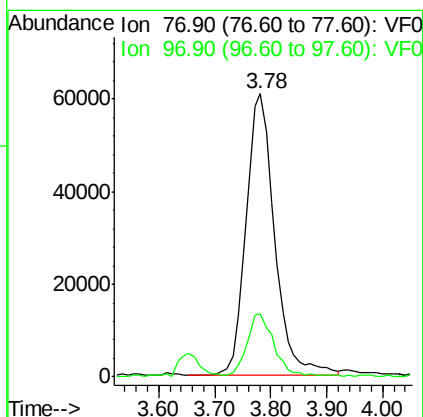
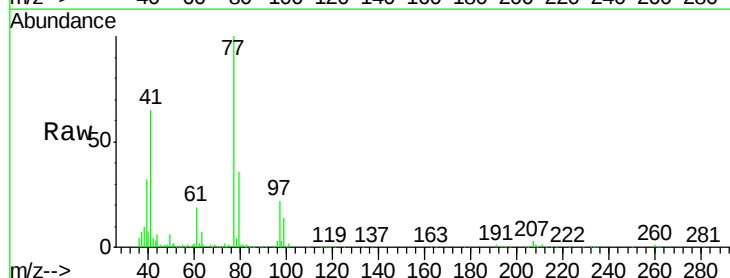
Acq: 22 Apr 2019 11:08

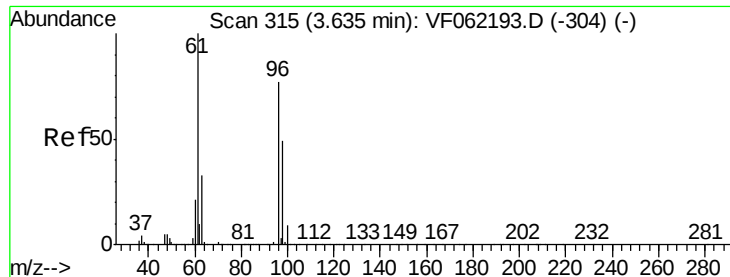
Tgt Ion: 77 Resp: 215121

Ion Ratio Lower Upper

77 100

97 20.3 11.1 33.3





#27

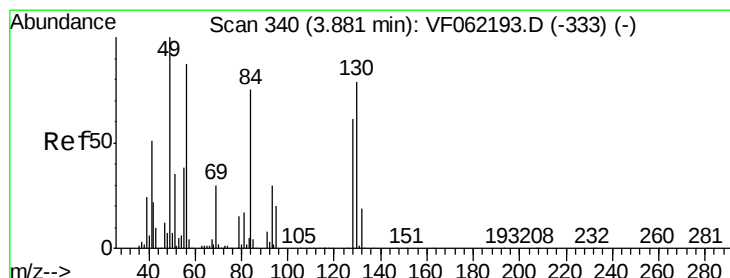
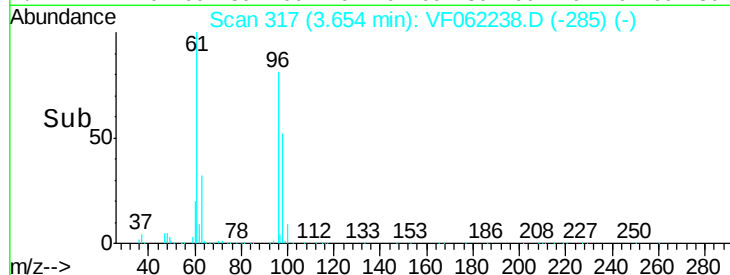
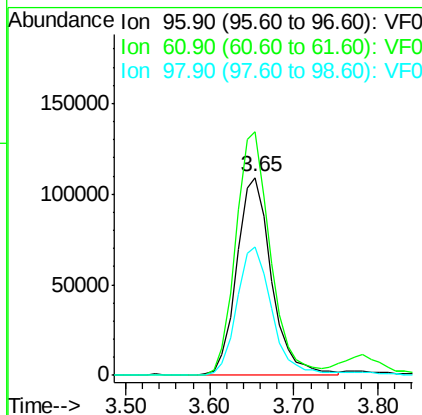
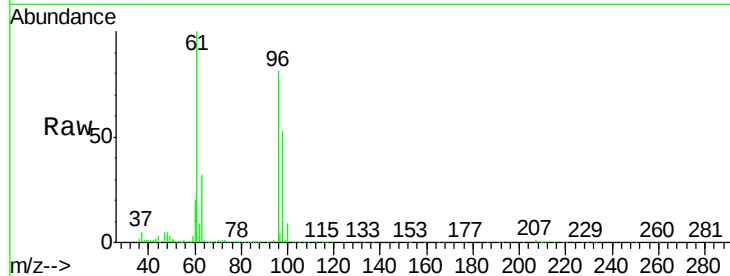
cis-1,2-Dichloroethene
Concen: 46.243 ug/l
RT: 3.65 min Scan# 317
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	313431		
61	123.3	0.0	253.6	
98	65.1	0.0	124.8	

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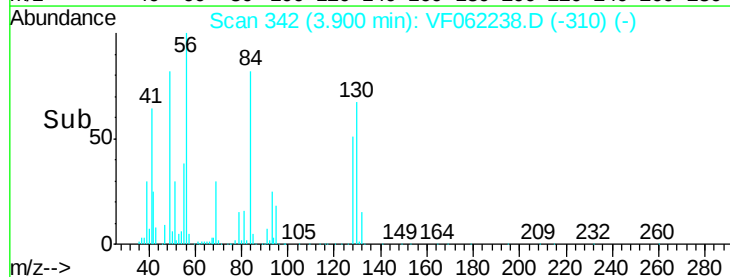
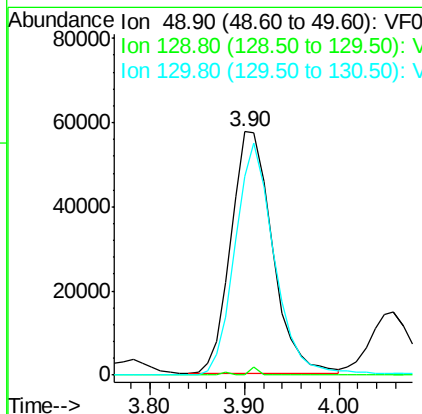
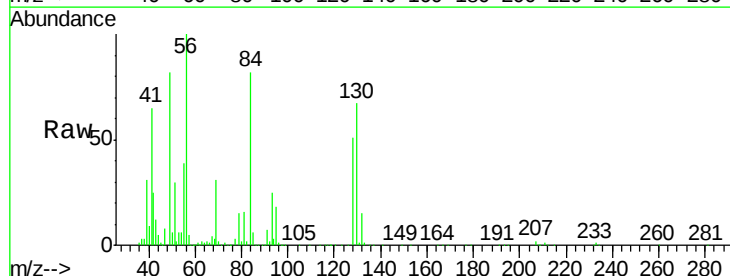
MMDadoda
4/24/2019 8:29:13 AM

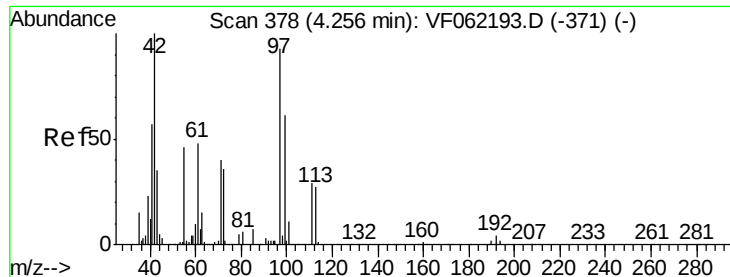


#28

Bromochloromethane
Concen: 43.216 ug/l
RT: 3.90 min Scan# 342
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	175954		
129	0.8	0.0	0.0#	
130	91.3	66.6	100.0	





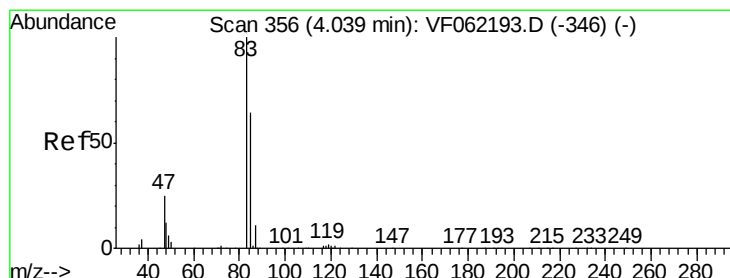
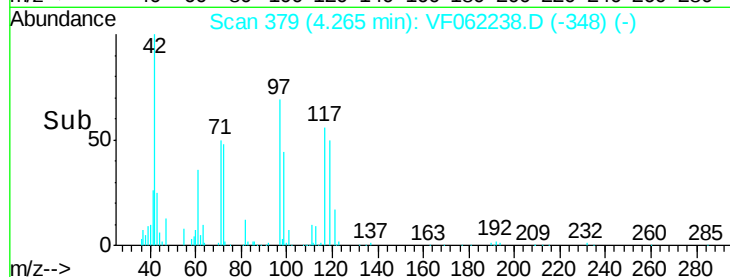
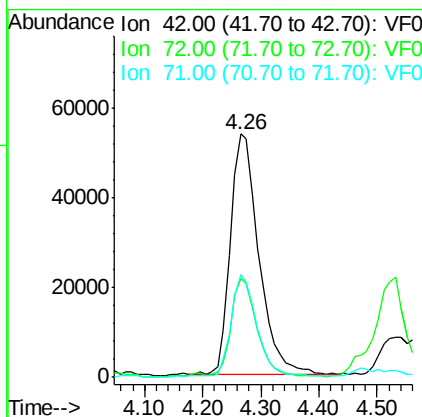
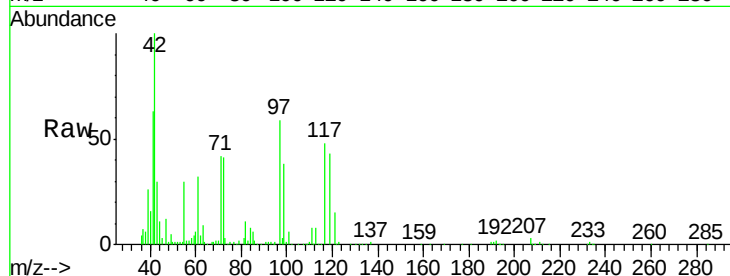
#29
Tetrahydrofuran
Concen: 194.289 ug/l
RT: 4.26 min Scan# 379
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.7	28.6	43.0
71	37.9	29.2	43.8

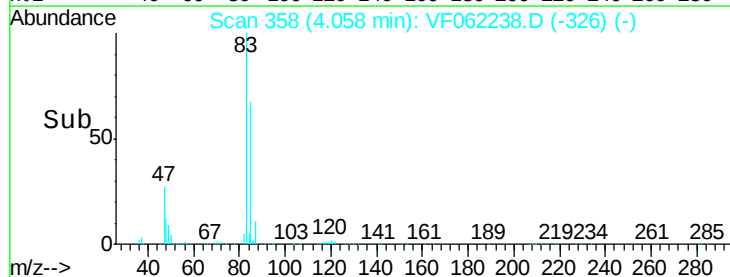
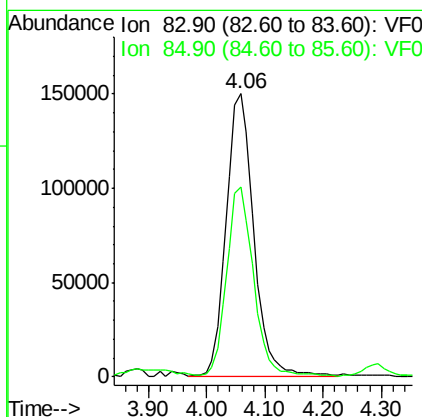
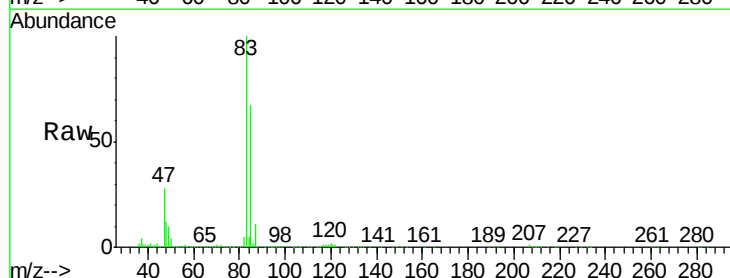
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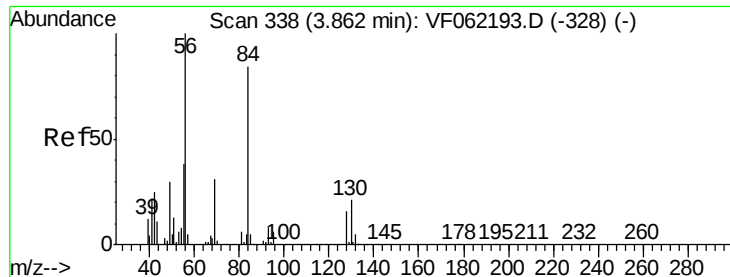
MMDadoda
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#30
Chloroform
Concen: 47.762 ug/l
RT: 4.06 min Scan# 358
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	51.8	77.8





#31

Cyclohexane

Concen: 43.764 ug/l

RT: 3.88 min Scan# 340

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

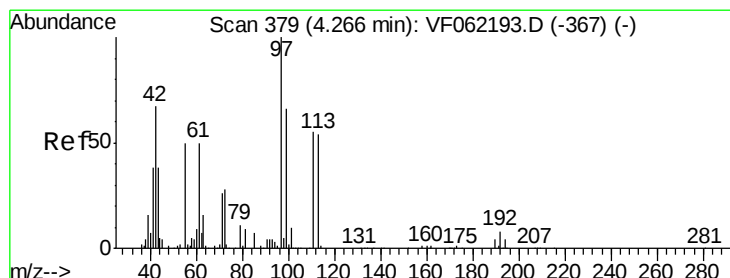
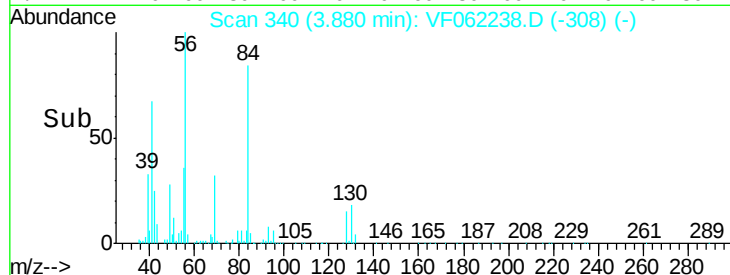
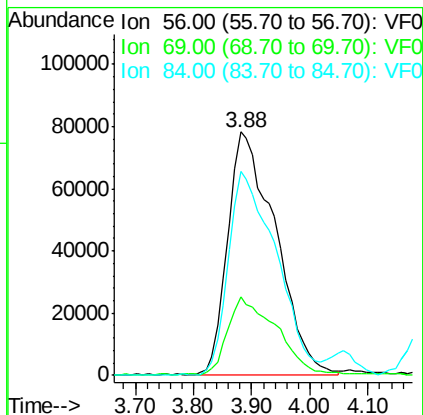
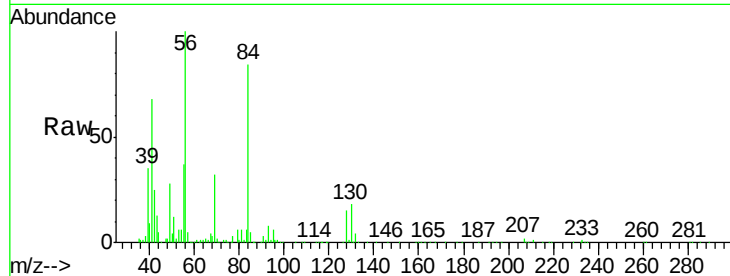
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	445767
Ion Ratio	Lower	Upper	
56	100		
69	31.6	25.1	37.7
84	83.5	67.8	101.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 50.117 ug/l

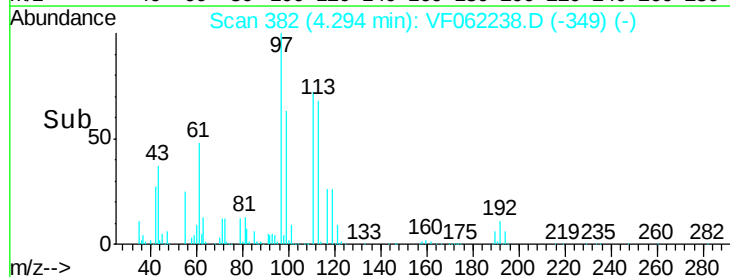
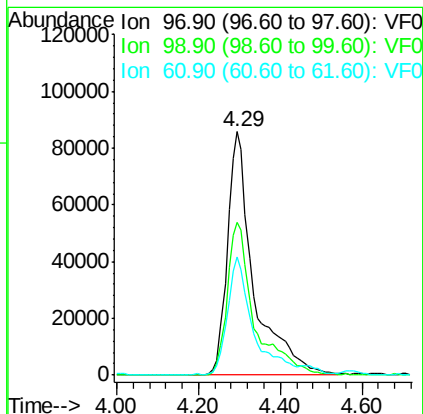
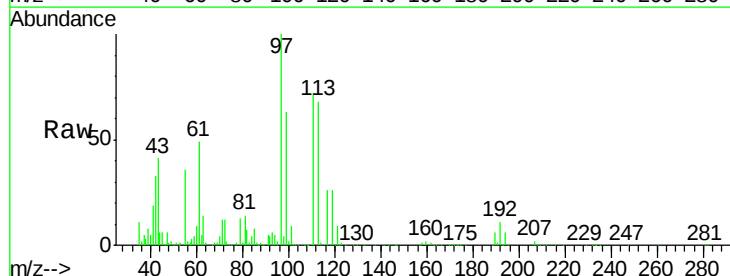
RT: 4.29 min Scan# 382

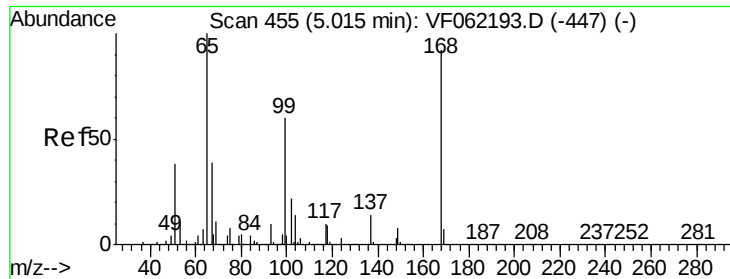
Delta R.T. 0.03 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Tgt Ion:	97	Resp:	383186
Ion Ratio	Lower	Upper	
97	100		
99	64.7	52.7	79.1
61	46.0	53.0	79.4#





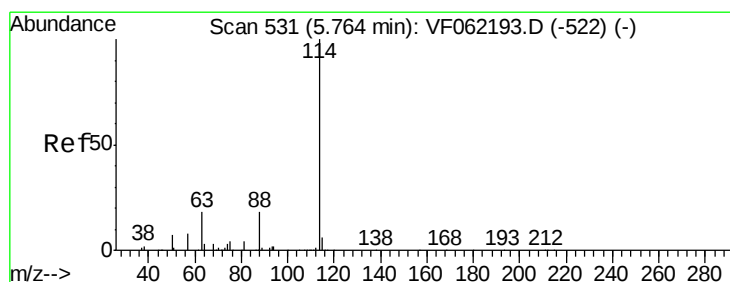
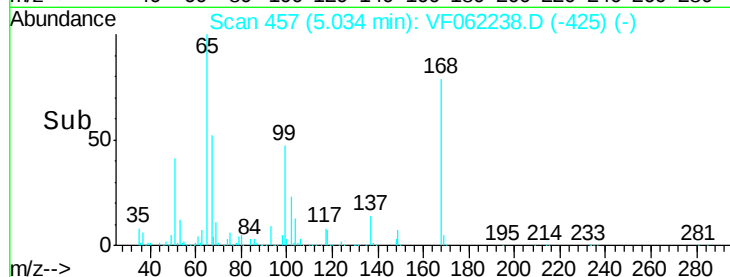
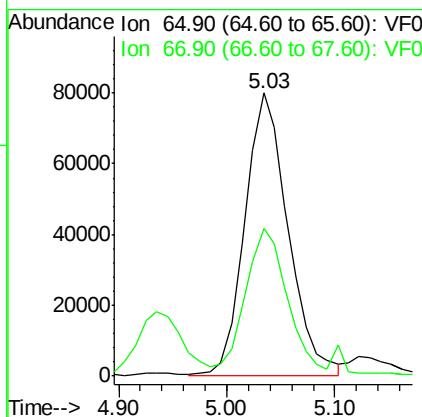
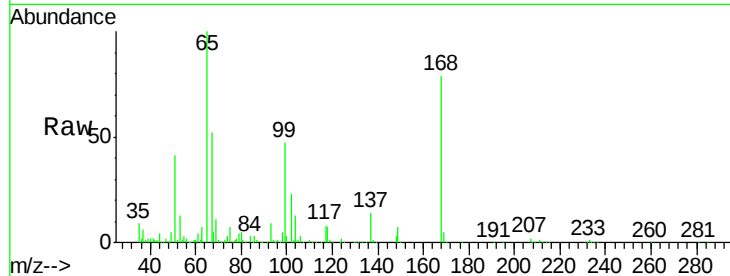
#33
 1,2-Dichloroethane-d4
 Concen: 50.602 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.02 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	220450		
67	50.9	0.0	109.4	

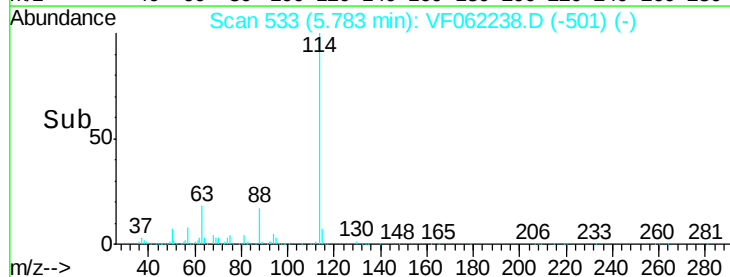
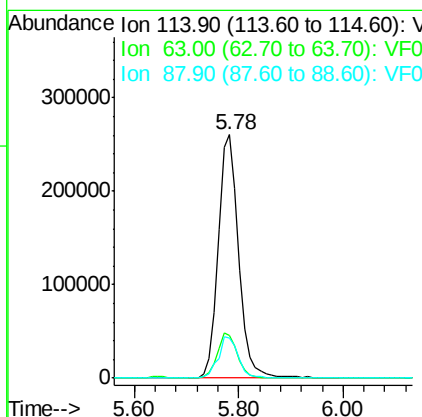
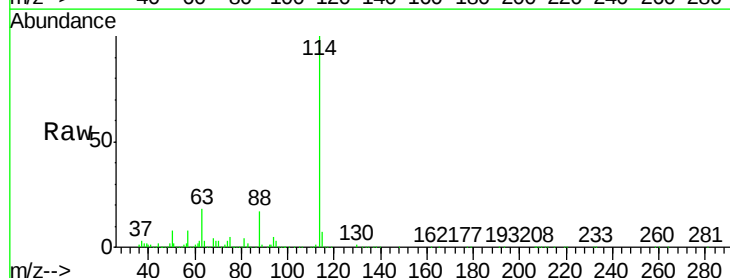
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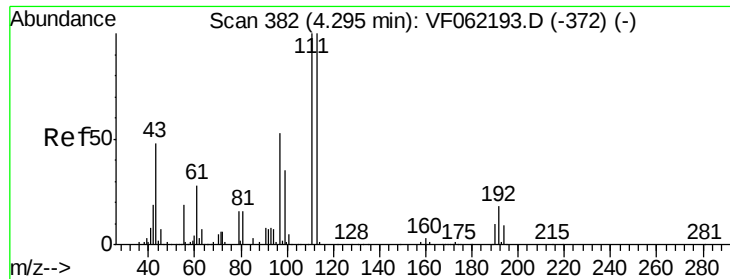
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 533
 Delta R.T. 0.02 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	710597		
63	17.7	0.0	36.6	
88	16.6	0.0	35.8	





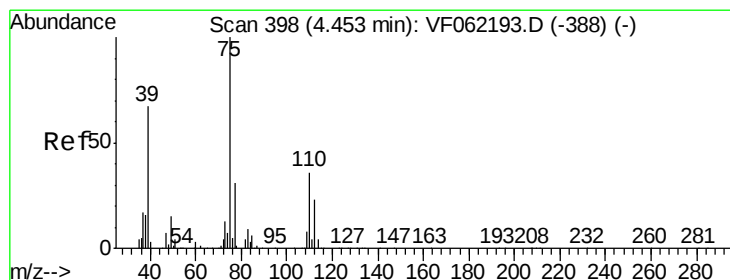
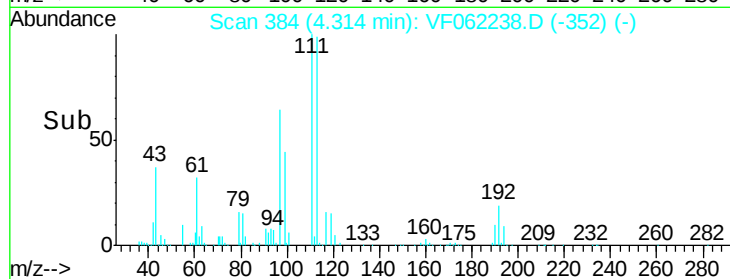
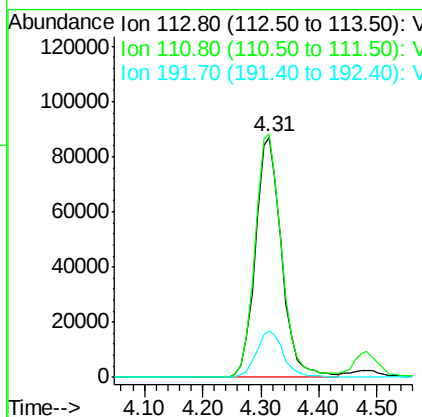
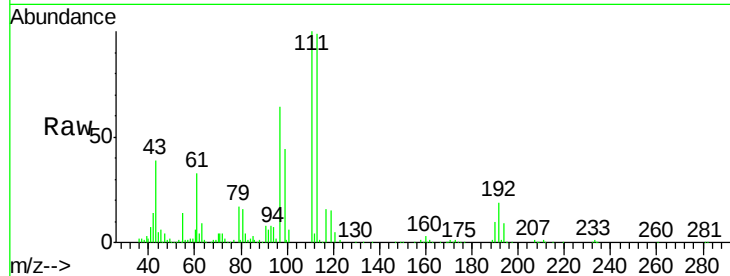
#35
 Dibromofluoromethane
 Concen: 44.335 ug/l
 RT: 4.31 min Scan# 384
 Delta R.T. 0.02 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	275581		
111	102.3	81.1	121.7	
192	20.2	14.7	22.1	

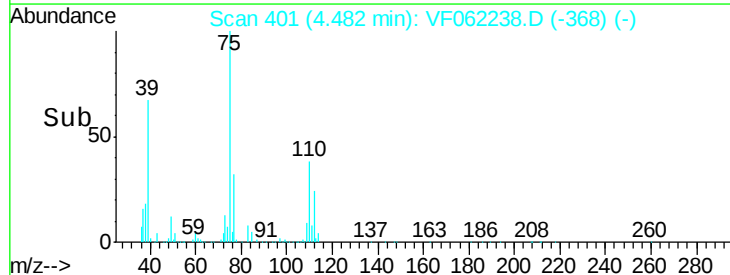
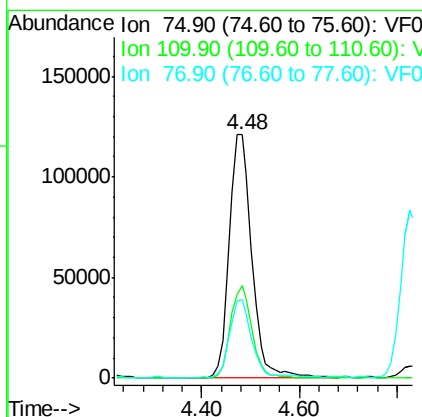
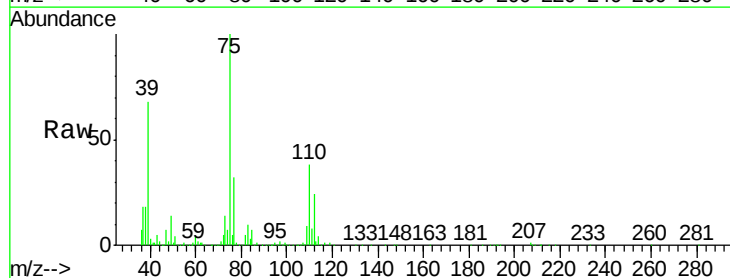
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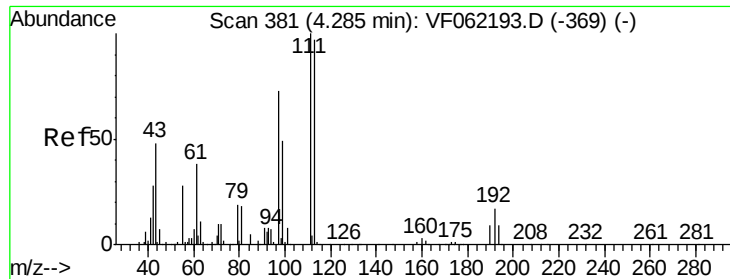
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#36
 1,1-Dichloropropene
 Concen: 45.731 ug/l
 RT: 4.48 min Scan# 401
 Delta R.T. 0.03 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	389616		
110	36.6	18.4	55.2	
77	31.6	25.4	38.2	





#37

Ethyl Acetate

Concen: 37.644 ug/l

RT: 4.30 min Scan# 383

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

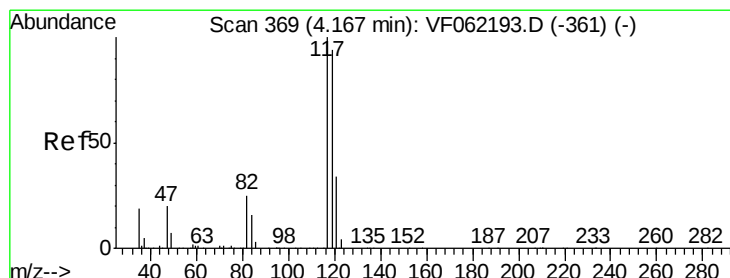
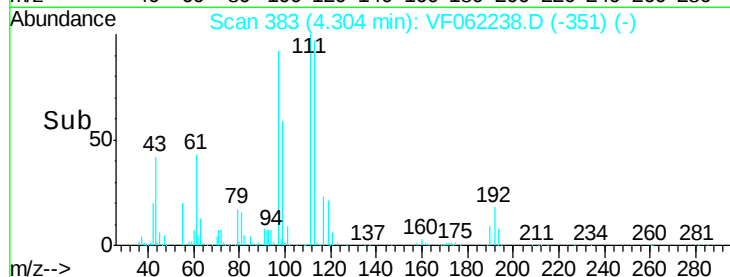
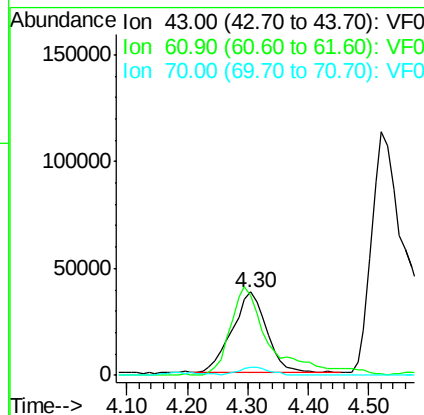
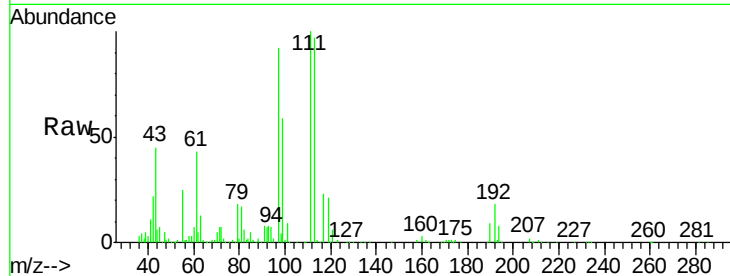
VSTDCCC050

Tot Ion: 43 Resp: 151338

Ion	Ratio	Lower	Upper
43	100		
61	116.6	0.0	0.0#
70	9.5	7.8	11.6

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#38

Carbon Tetrachloride

Concen: 45.189 ug/l m

RT: 4.19 min Scan# 371

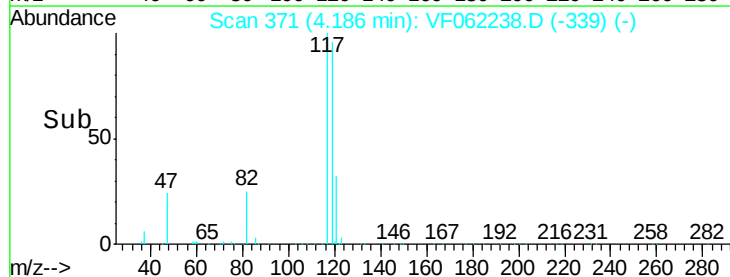
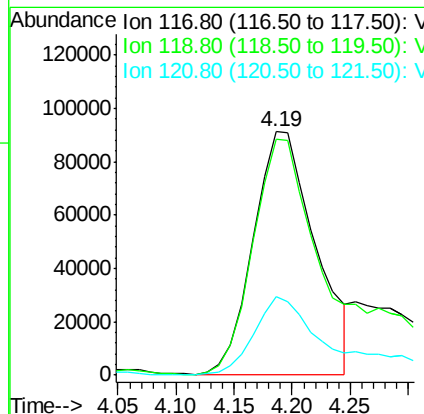
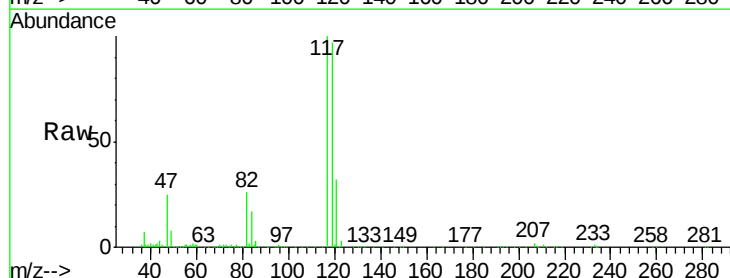
Delta R.T. 0.02 min

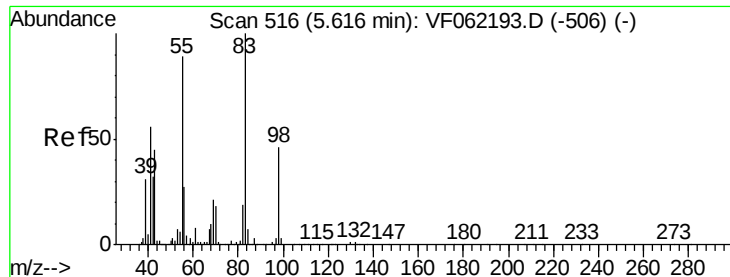
Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Tgt Ion: 117 Resp: 340771

Ion	Ratio	Lower	Upper
117	100		
119	96.7	75.0	112.4
121	32.5	26.9	40.3





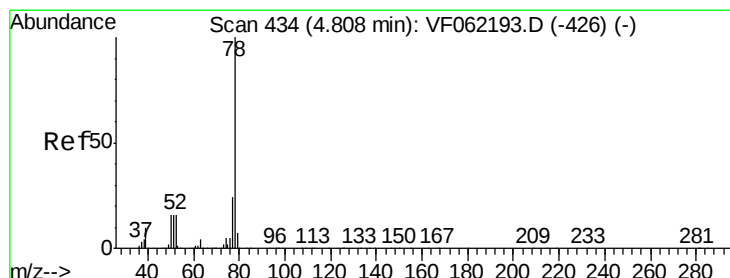
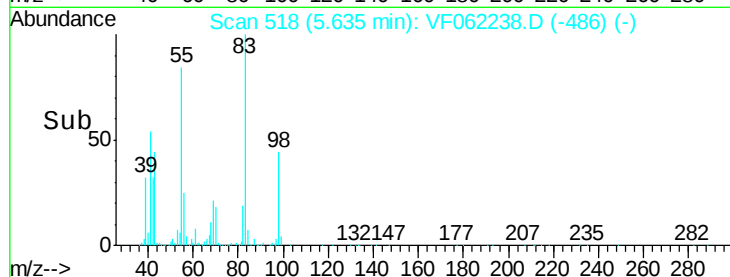
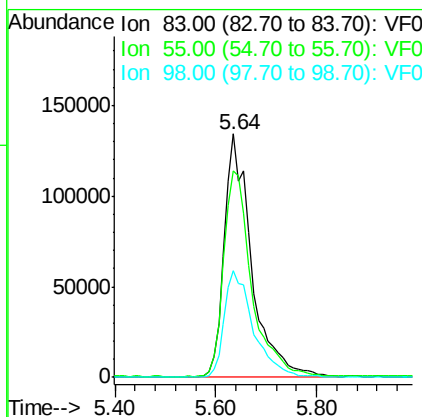
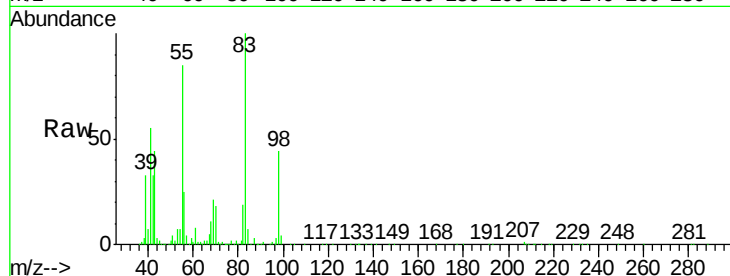
#39
Methvlcvclohexane
Concen: 49.634 ug/l
RT: 5.64 min Scan# 518
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.0	71.0	106.6
98	43.7	36.7	55.1

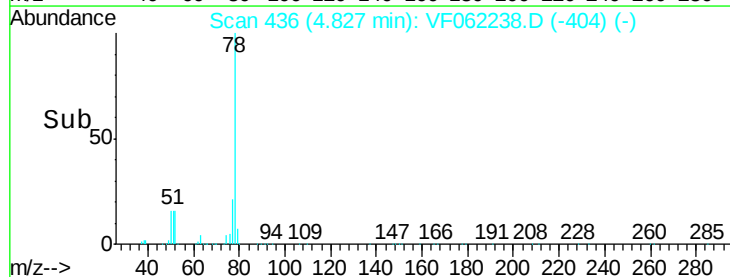
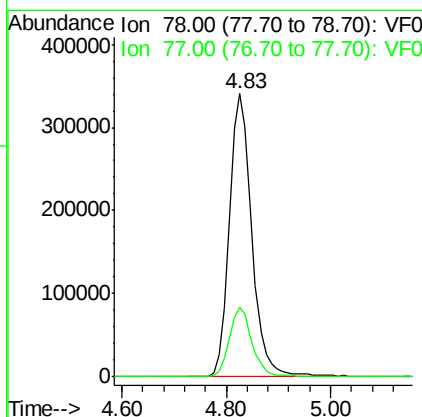
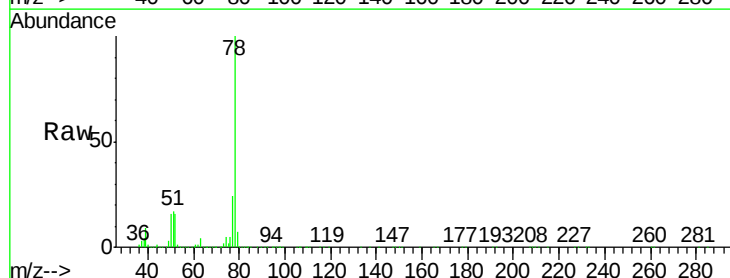
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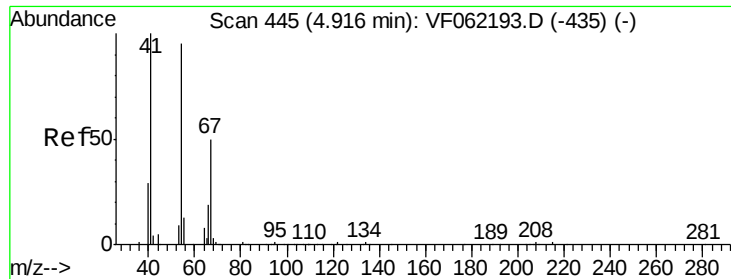
MMDadoda
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#40
Benzene
Concen: 45.114 ug/l
RT: 4.83 min Scan# 436
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.9	28.3





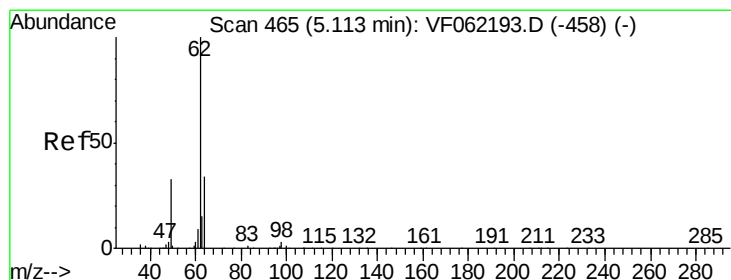
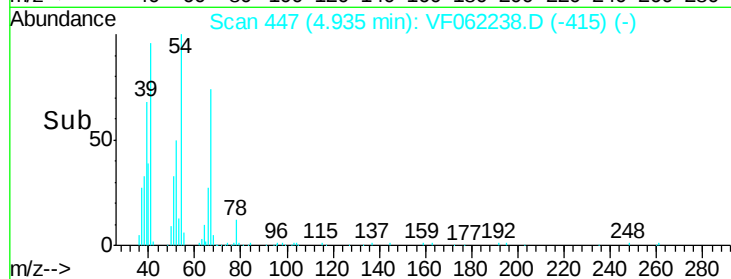
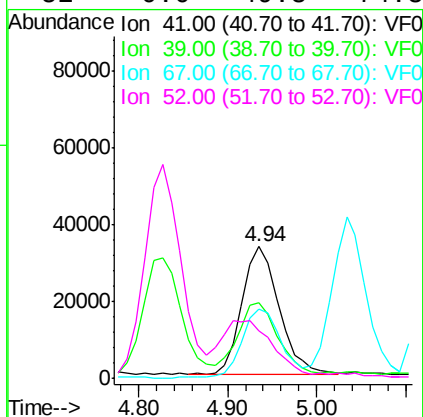
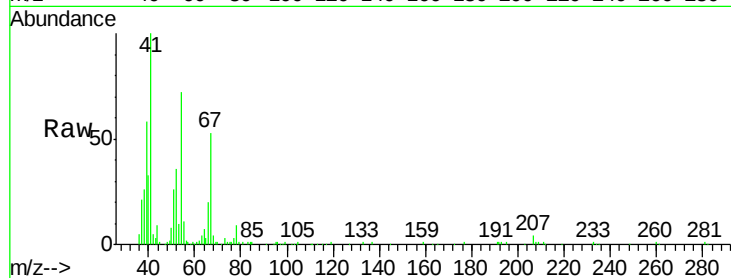
#41
Methacrylonitrile
Concen: 41.173 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.3	44.7	67.1
67	55.3	39.1	58.7
52	0.0	49.8	74.8

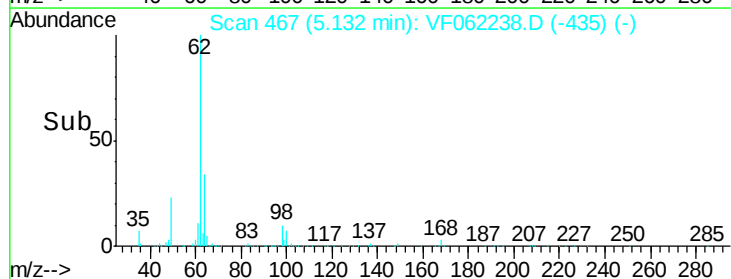
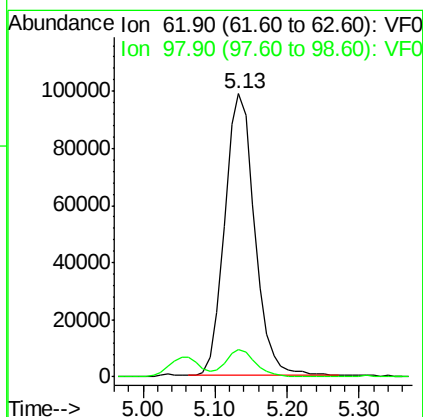
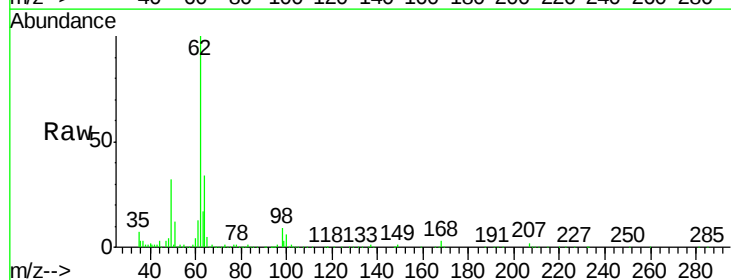
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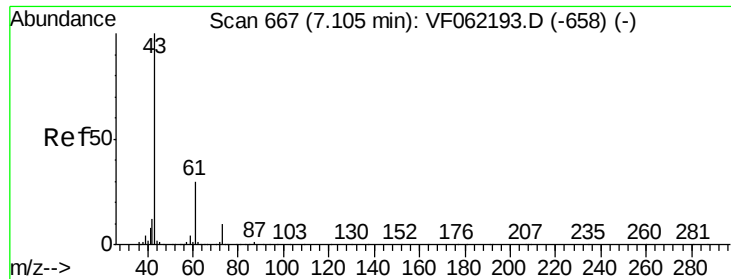
MMDadoda
4/24/2019 8:29:13 AM



#42
1,2-Dichloroethane
Concen: 47.976 ug/l
RT: 5.13 min Scan# 467
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	19.0





#43

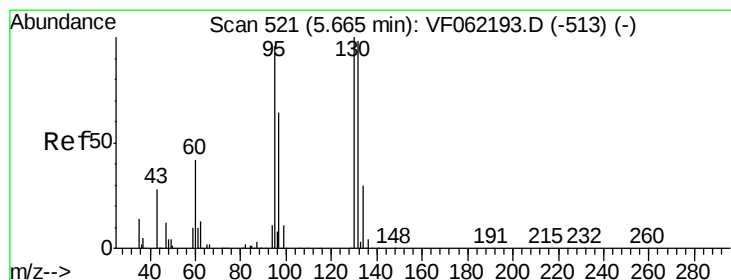
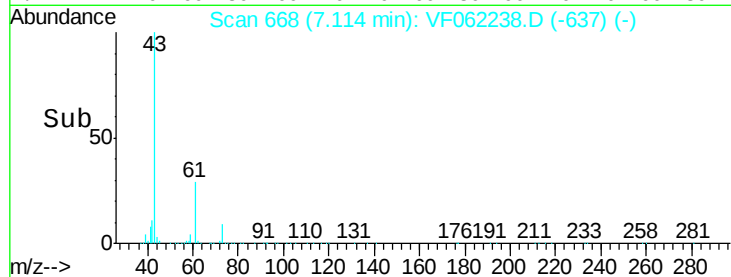
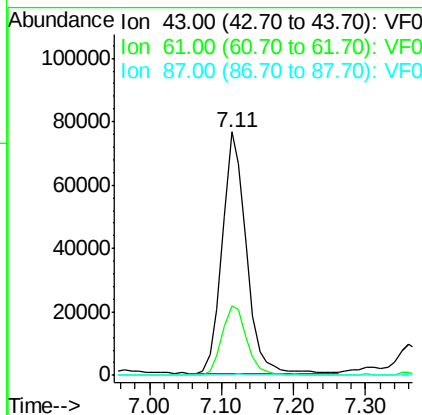
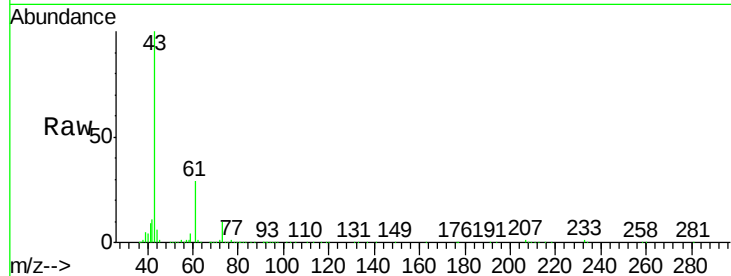
Isopropyl Acetate
 Concen: 41.717 ug/l
 RT: 7.11 min Scan# 668
 Delta R.T. 0.01 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.8	24.4	36.6
87	0.4	0.4	0.6

Manual Integrations
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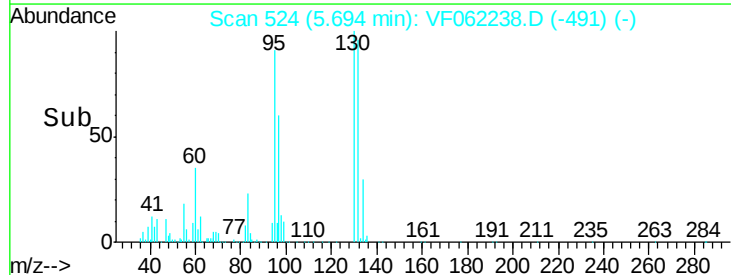
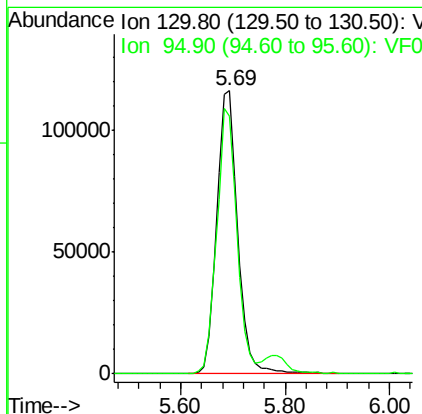
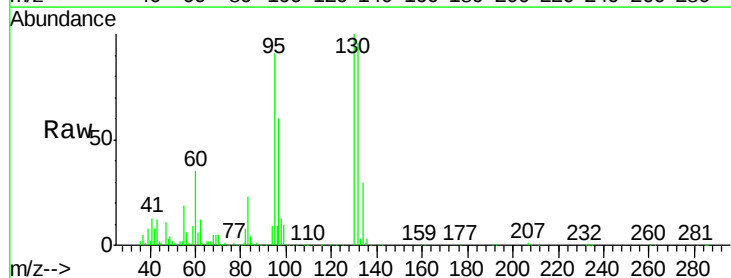
MMDadoda
 4/24/2019 8:29:13 AM

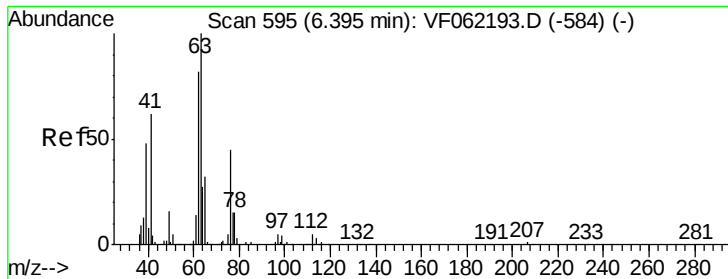


#44

Trichloroethene
 Concen: 53.989 ug/l
 RT: 5.69 min Scan# 524
 Delta R.T. 0.03 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.7	0.0	191.4





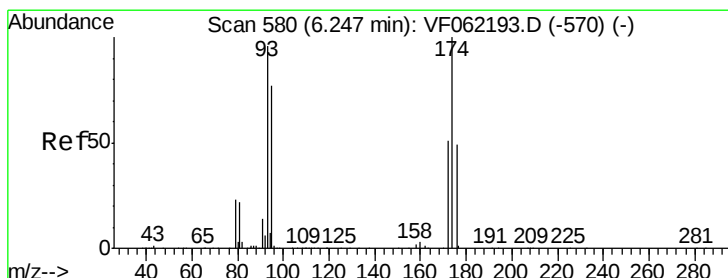
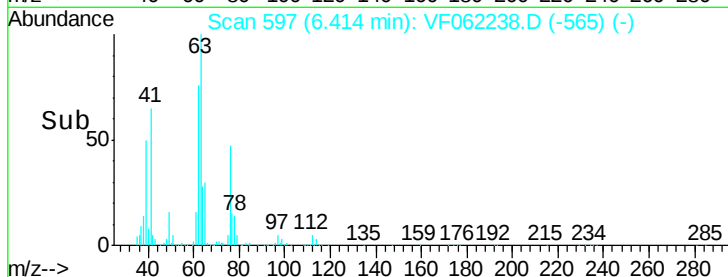
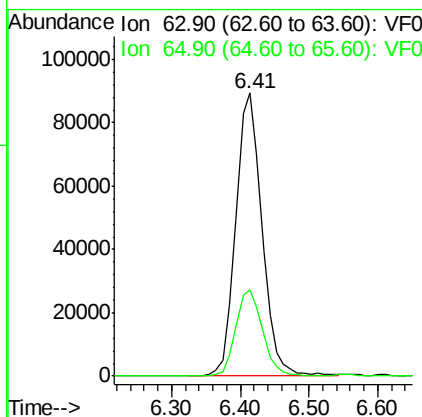
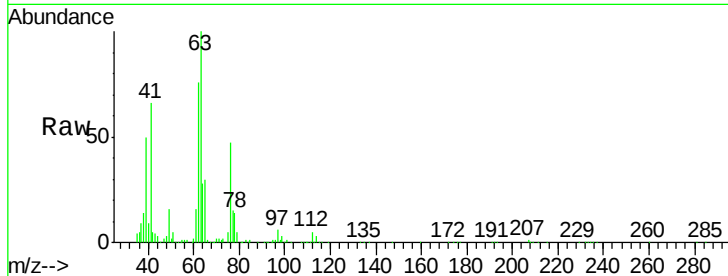
#45
 1,2-Dichloropropane
 Concen: 47.620 ug/l
 RT: 6.41 min Scan# 597
 Delta R.T. 0.02 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 234404
 Ion Ratio Lower Upper
 63 100
 65 30.4 25.9 38.9

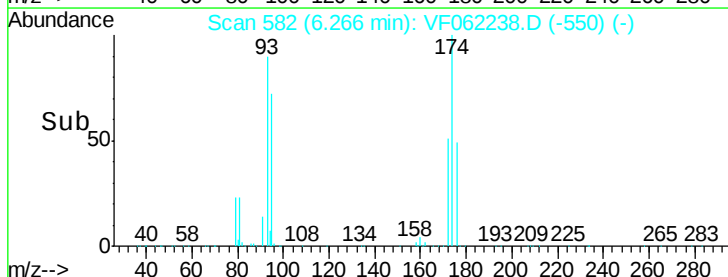
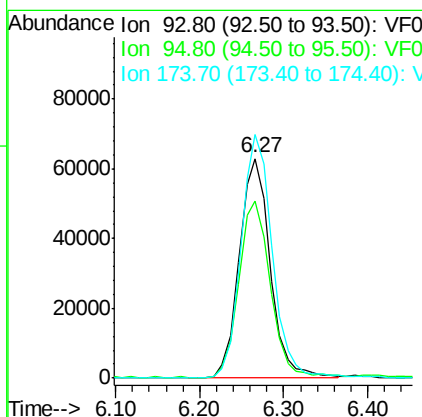
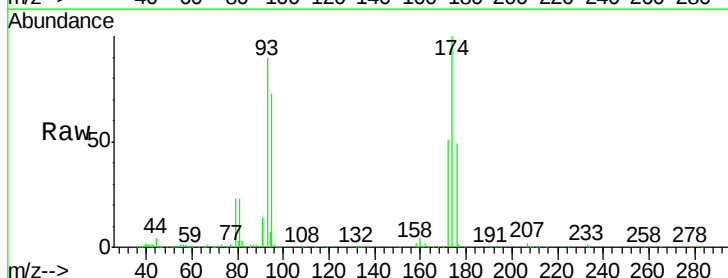
Manual Integrations
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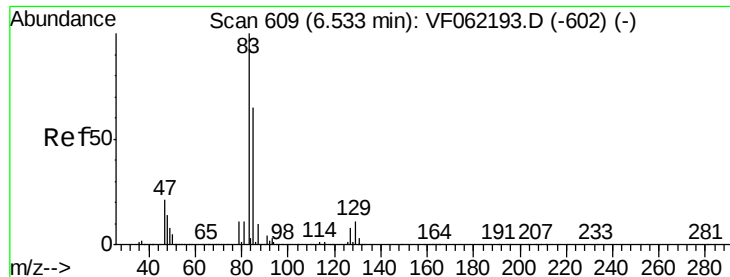
MMDadoda
 4/24/2019 8:29:13 AM



#46
 Dibromomethane
 Concen: 49.438 ug/l
 RT: 6.27 min Scan# 582
 Delta R.T. 0.02 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Tgt Ion: 93 Resp: 161908
 Ion Ratio Lower Upper
 93 100
 95 81.4 65.1 97.7
 174 111.7 81.8 122.6





#47

Bromodichloromethane

Concen: 48.493 ug/l

RT: 6.56 min Scan# 612

Delta R.T. 0.03 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

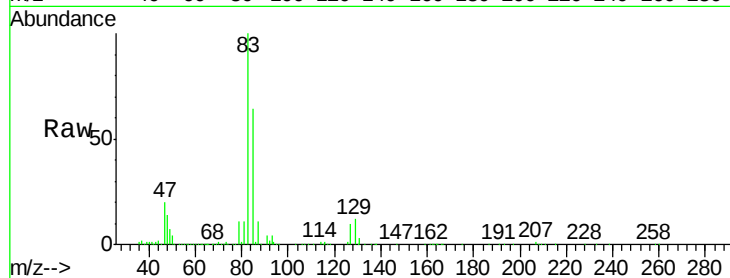
ClientSampleId :

VSTDCCC050

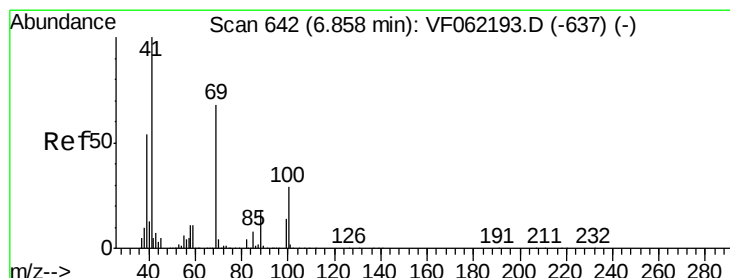
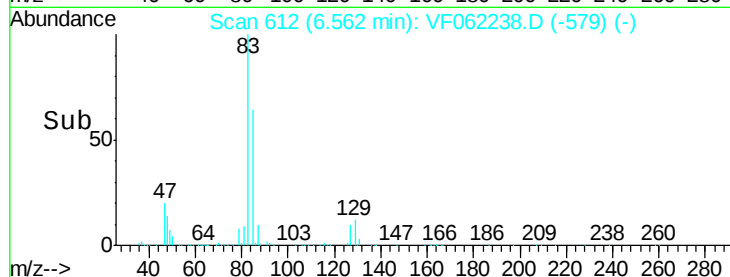
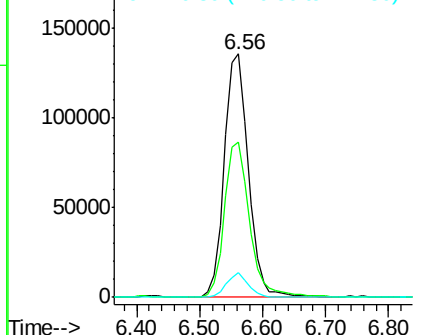
Tot Ion:	83	Resp:	358386
Ion Ratio	Lower	Upper	
83	100		
85	63.8	52.2	78.4
127	10.1	6.7	10.1#

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VF0
Ion 84.90 (84.60 to 85.60): VF0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 40.681 ug/l

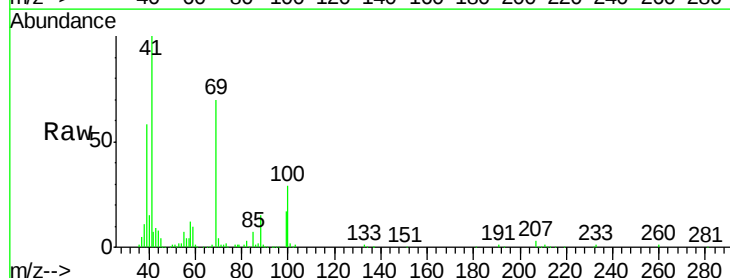
RT: 6.88 min Scan# 644

Delta R.T. 0.02 min

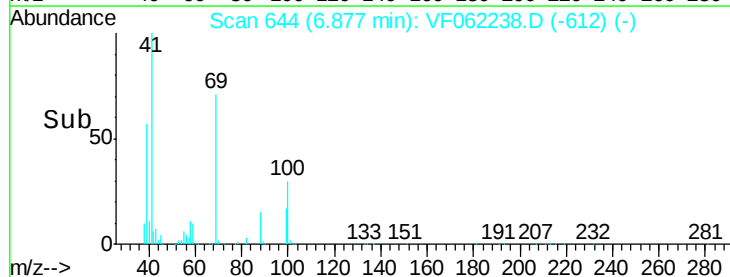
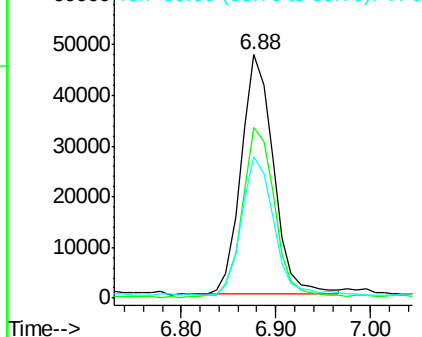
Lab File: VF062238.D

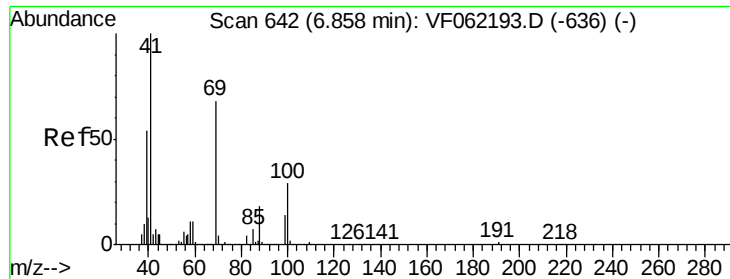
Acq: 22 Apr 2019 11:08

Tgt Ion:	41	Resp:	113043
Ion Ratio	Lower	Upper	
41	100		
69	70.7	54.9	82.3
39	57.4	43.6	65.4



Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 39.00 (38.70 to 39.70): VF0





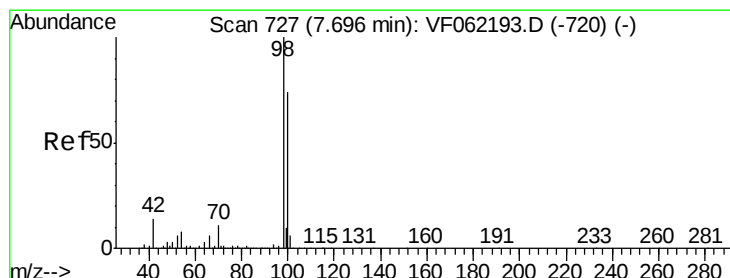
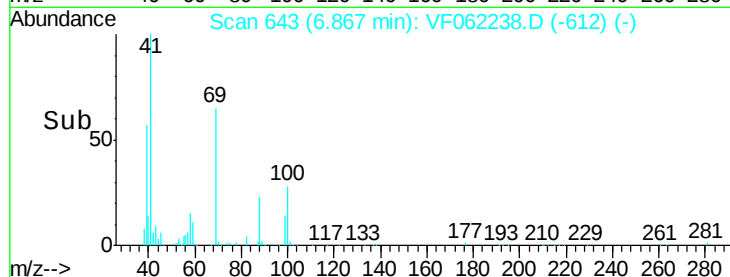
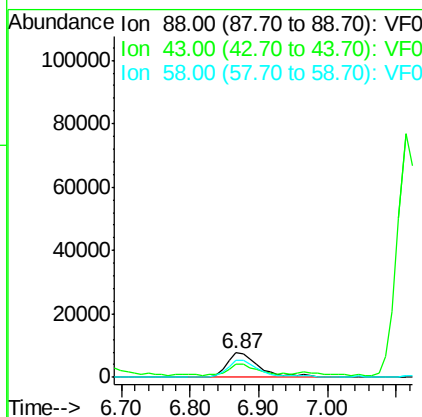
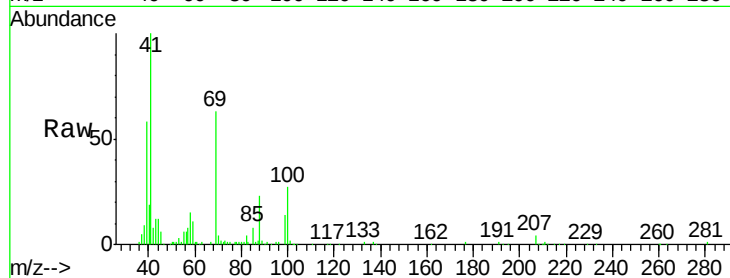
#49
 1,4-Dioxane
 Concen: 787.141 ug/l
 RT: 6.87 min Scan# 643
 Delta R.T. 0.01 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	88	Resp	25085
Ion	Ratio	Lower	Upper
88	100		
43	39.8	36.9	55.3
58	72.2	56.8	85.2

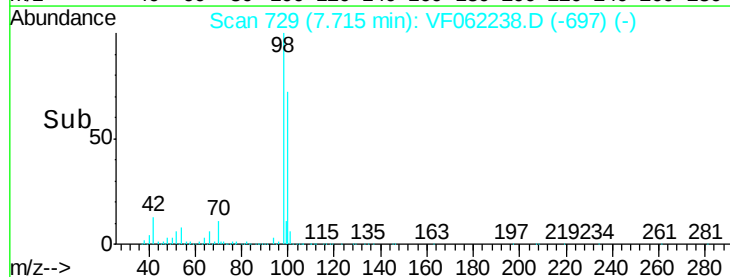
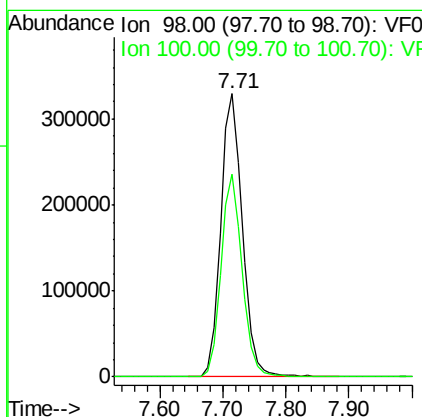
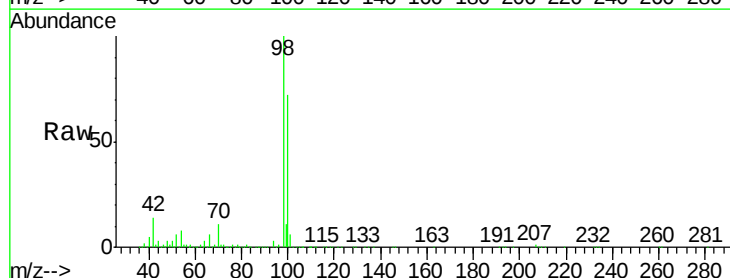
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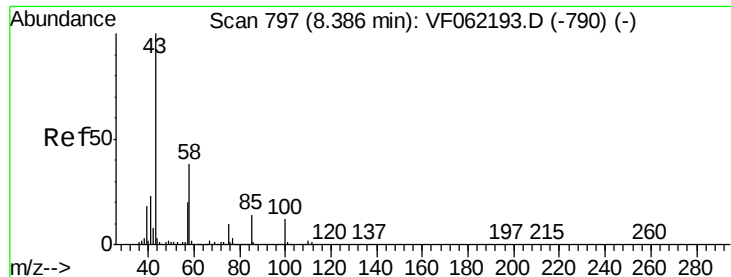
MMDadoda
 4/24/2019 8:29:13 AM



#50
 Toluene-d8
 Concen: 50.205 ug/l
 RT: 7.71 min Scan# 729
 Delta R.T. 0.02 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Tgt Ion	98	Resp	789959
Ion	Ratio	Lower	Upper
98	100		
100	70.0	56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 209.080 ug/l

RT: 8.40 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 657548

Ion Ratio Lower Upper

43 100

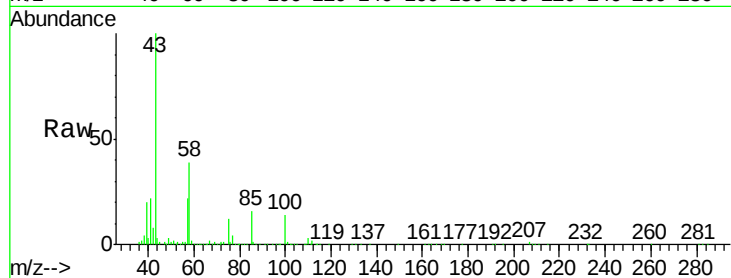
58 38.0 29.3 43.9

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MMDadoda

4/24/2019 8:29:13 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.40

250000

200000

150000

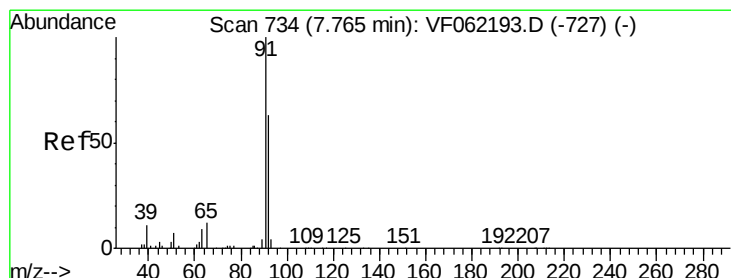
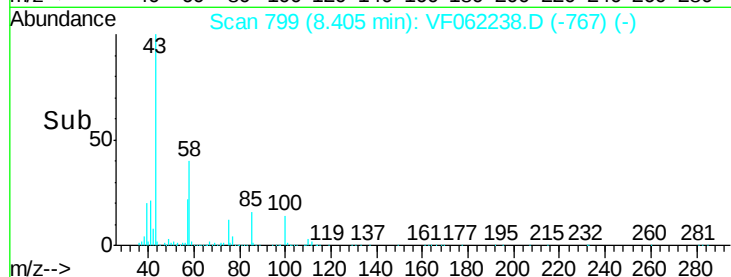
100000

50000

0

Time-->

8.30 8.40 8.50 8.60



#52

Toluene

Concen: 51.837 ug/l

RT: 7.78 min Scan# 736

Delta R.T. 0.02 min

Lab File: VF062238.D

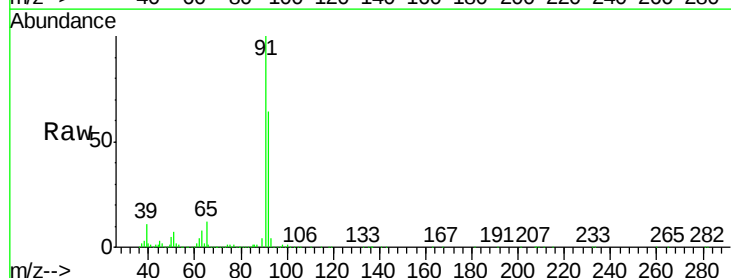
Acq: 22 Apr 2019 11:08

Tgt Ion: 92 Resp: 610617

Ion Ratio Lower Upper

92 100

91 161.6 130.1 195.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.78

400000

300000

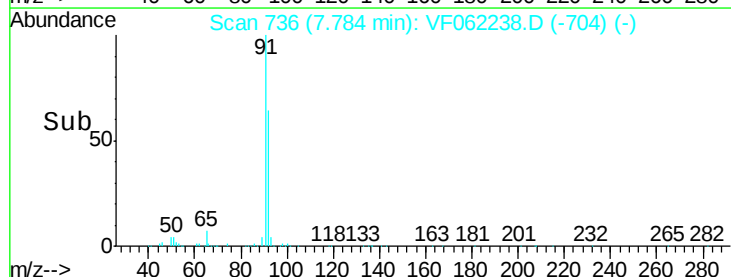
200000

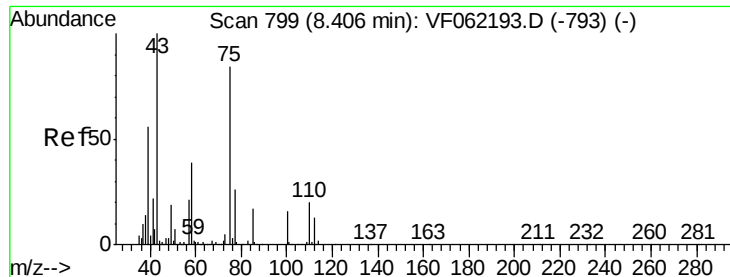
100000

0

Time-->

7.60 7.70 7.80 7.90 8.00





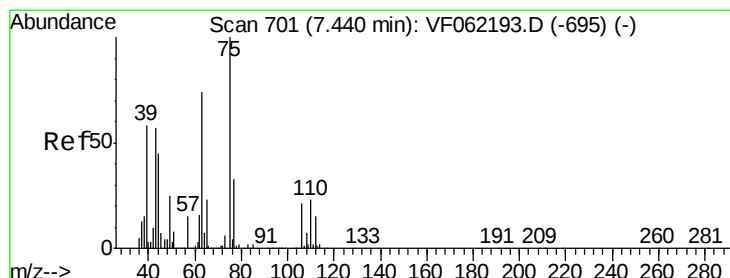
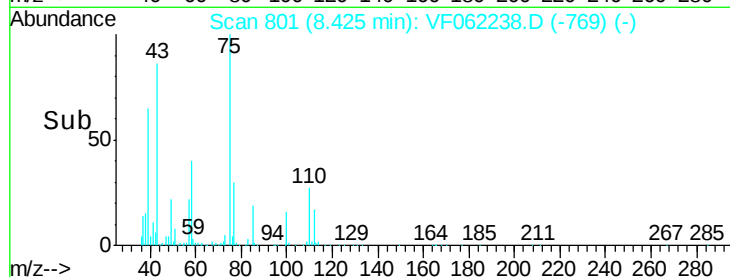
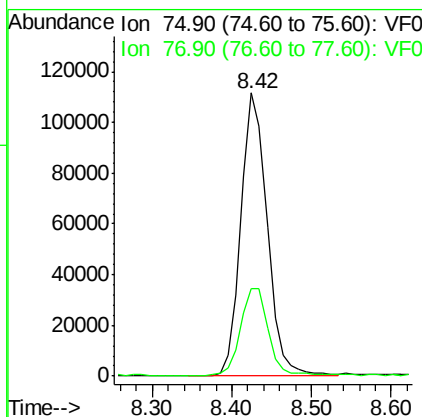
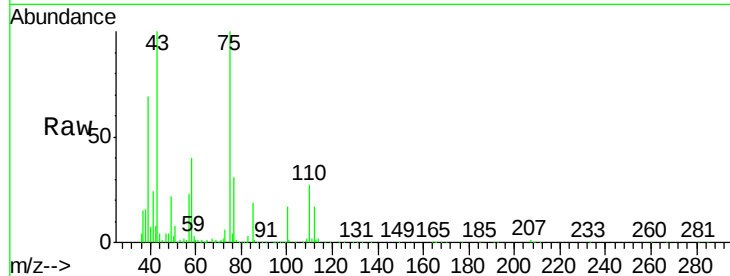
#53
t-1,3-Dichloropropene
Concen: 46.135 ug/l
RT: 8.42 min Scan# 801
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.5	24.6	36.8

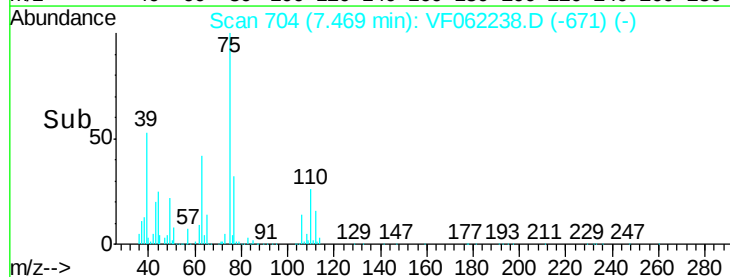
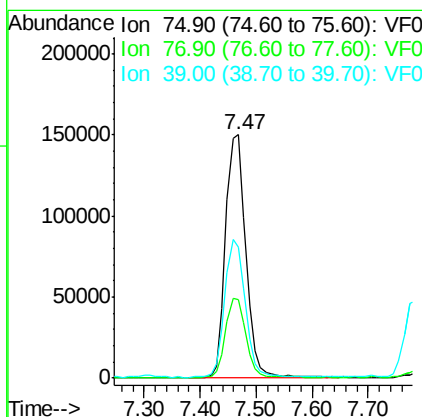
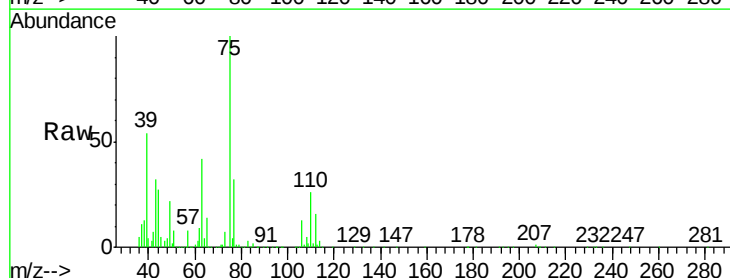
Manual Integrations
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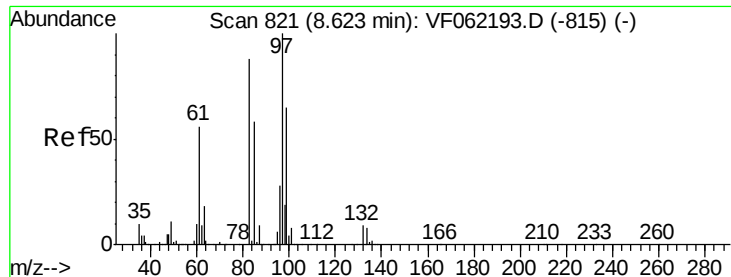
MMDadoda
4/24/2019 8:29:13 AM



#54
cis-1,3-Dichloropropene
Concen: 50.872 ug/l
RT: 7.47 min Scan# 704
Delta R.T. 0.03 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.2	26.4	39.6
39	53.5	46.7	70.1





#55

1,1,2-Trichloroethane

Concen: 48.269 ug/l

RT: 8.64 min Scan# 823

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

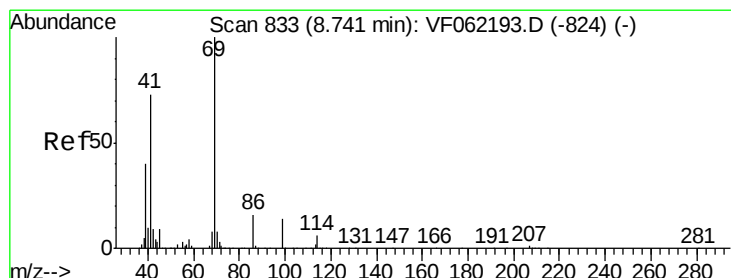
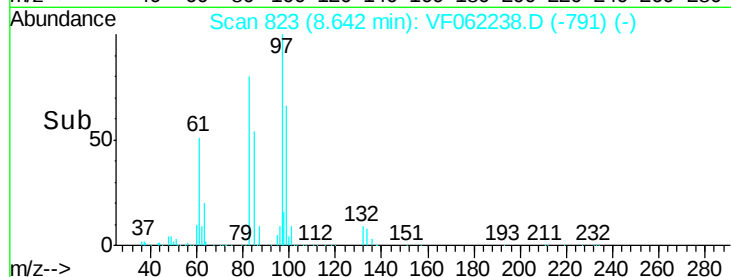
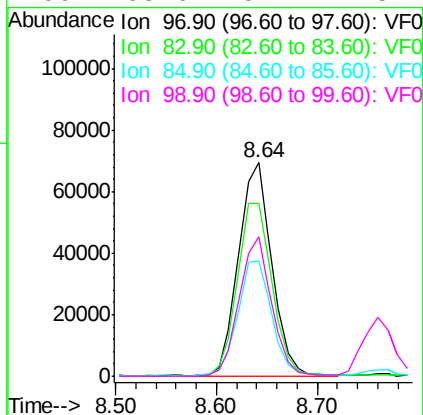
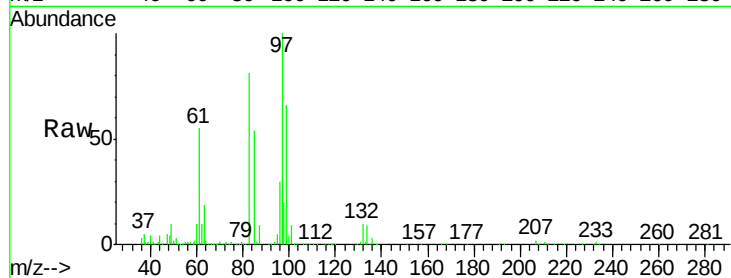
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	159282
Ion	Ratio	Lower	Upper
97	100		
83	80.9	70.2	105.2
85	53.8	46.2	69.4
99	65.6	52.2	78.4

Manual Integrations
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#56

Ethyl methacrylate

Concen: 45.867 ug/l

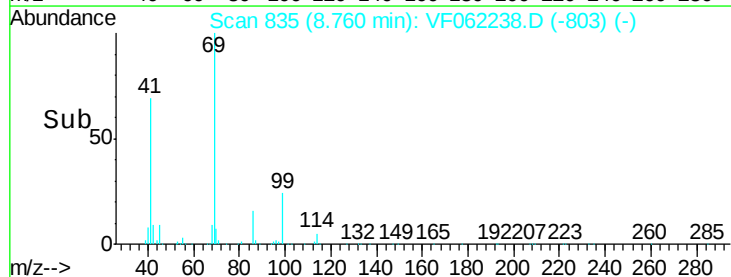
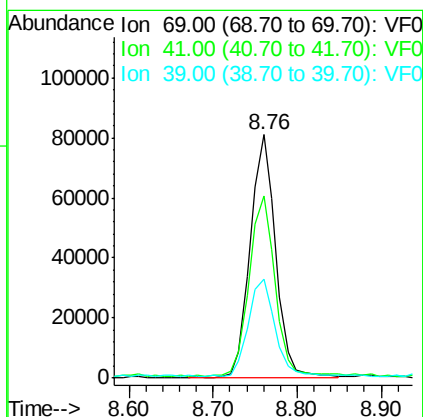
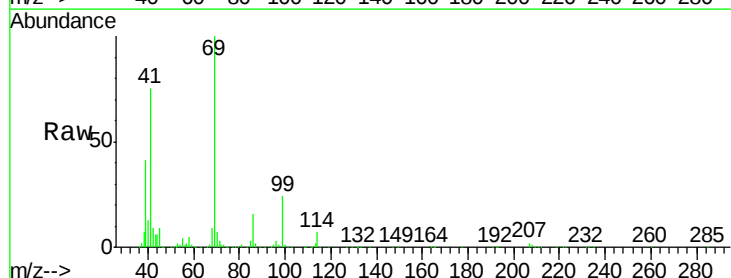
RT: 8.76 min Scan# 835

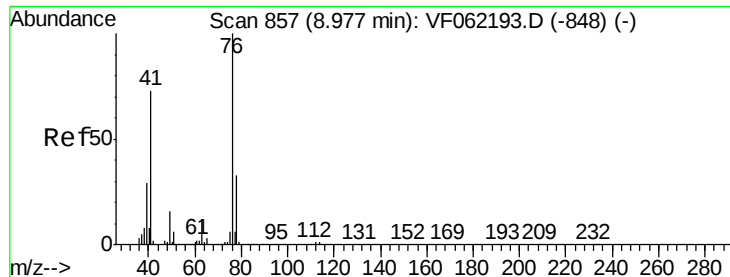
Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Tgt Ion:	69	Resp:	172084
Ion	Ratio	Lower	Upper
69	100		
41	74.2	61.5	92.3
39	41.6	33.3	49.9





#57

1,3-Dichloropropane

Concen: 48.701 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 259509

Ion Ratio Lower Upper

76 100

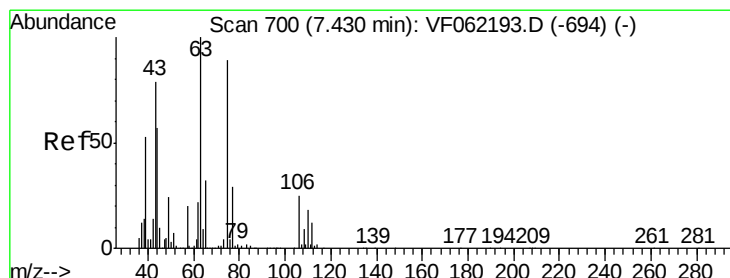
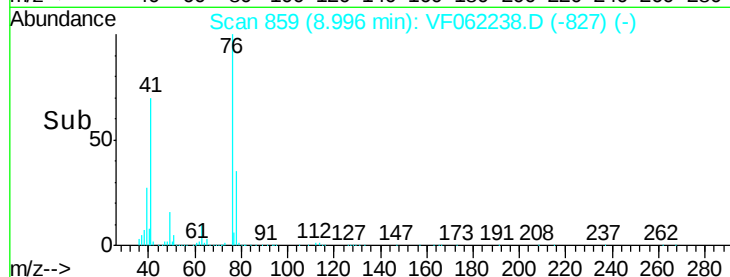
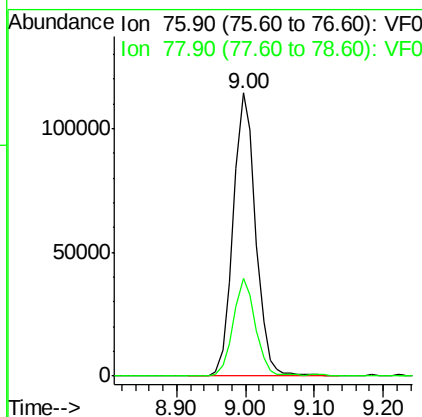
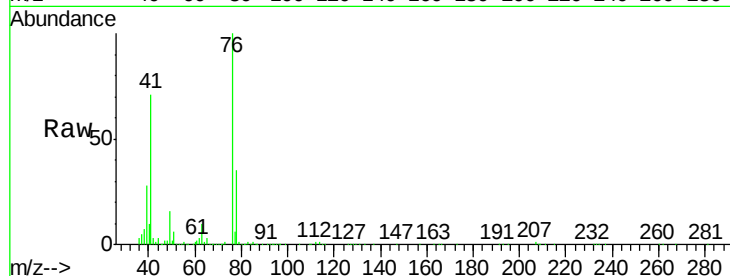
78 34.4 26.5 39.7

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 224.152 ug/l

RT: 7.45 min Scan# 702

Delta R.T. 0.02 min

Lab File: VF062238.D

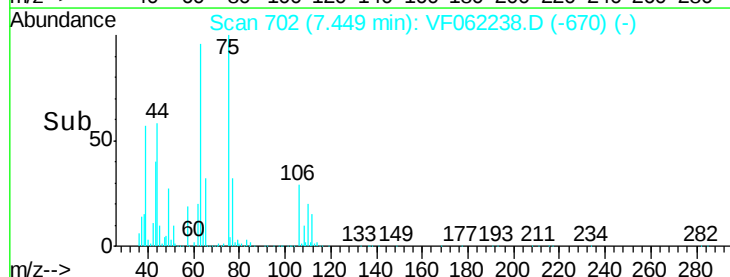
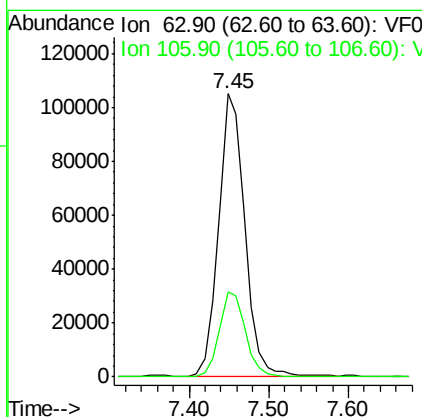
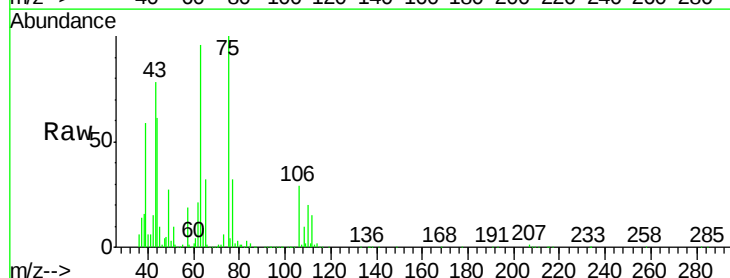
Acq: 22 Apr 2019 11:08

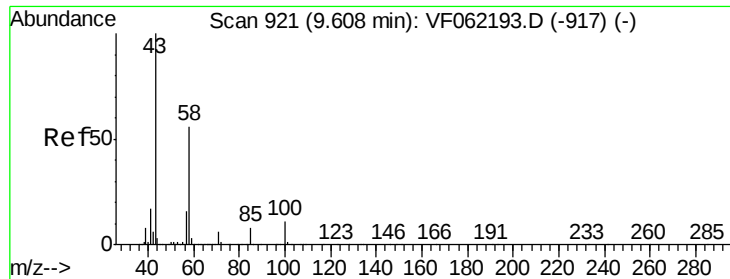
Tgt Ion: 63 Resp: 244166

Ion Ratio Lower Upper

63 100

106 30.2 21.4 32.0





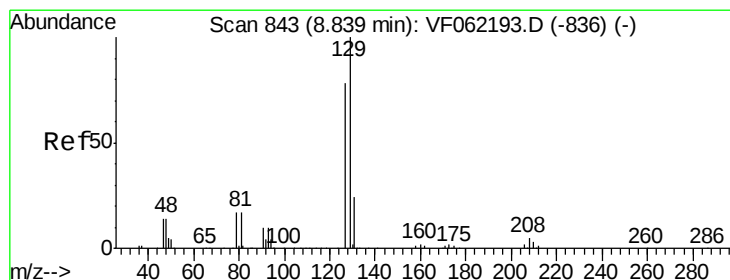
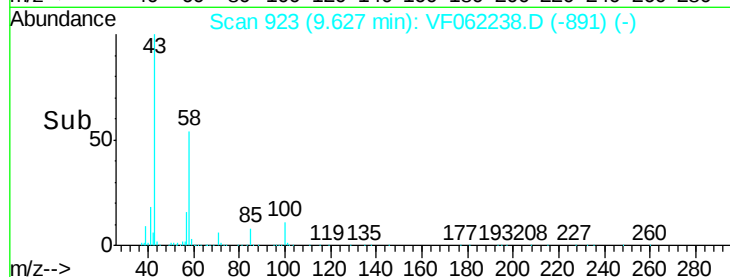
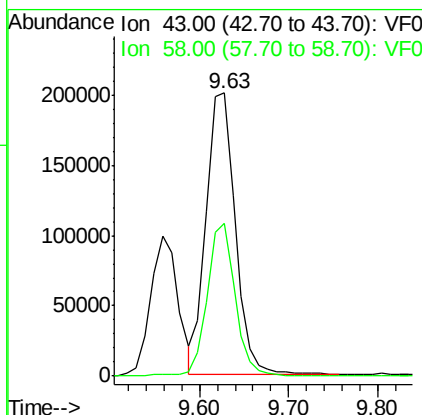
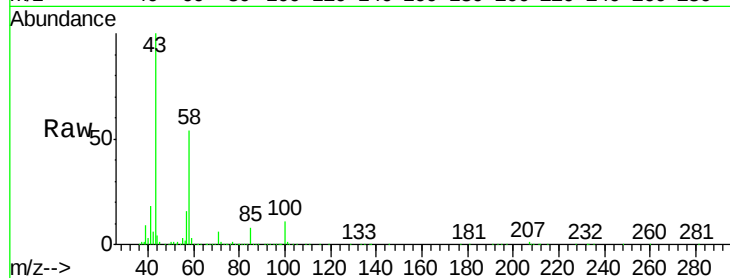
#59
2-Hexanone
Concen: 232.879 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 456704
Ion Ratio Lower Upper
43 100
58 52.3 24.6 74.0

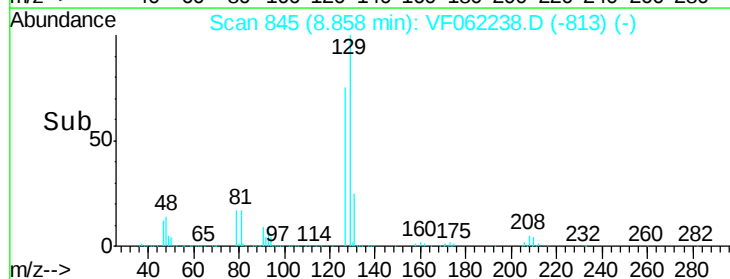
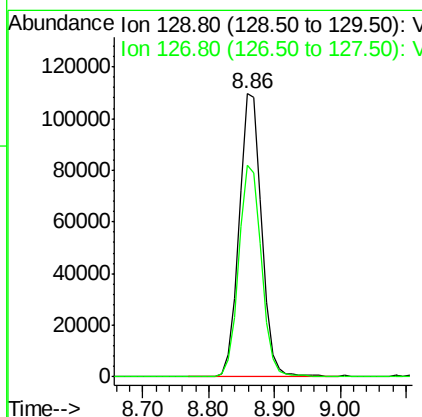
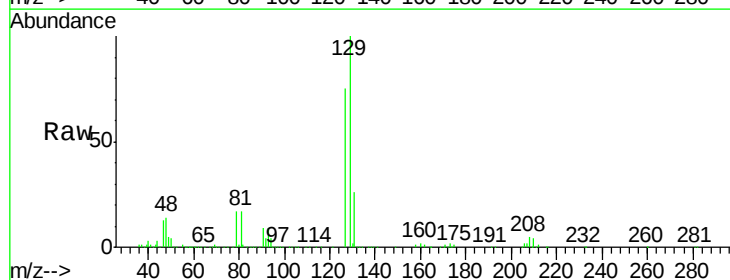
Manual Integrations
APPROVED

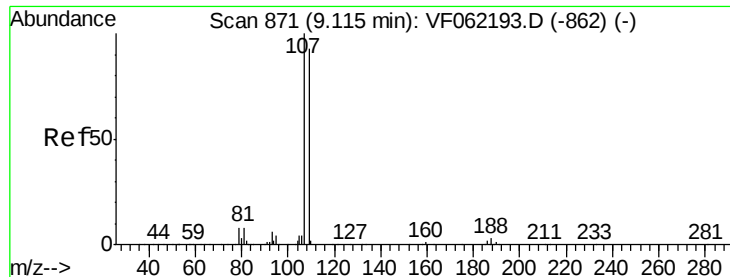
MMDadoda
4/24/2019 8:29:13 AM



#60
Dibromochloromethane
Concen: 53.791 ug/l
RT: 8.86 min Scan# 845
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion: 129 Resp: 263984
Ion Ratio Lower Upper
129 100
127 75.3 39.0 117.0





#61

1,2-Dibromoethane

Concen: 51.764 ug/l

RT: 9.13 min Scan# 873

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 192447

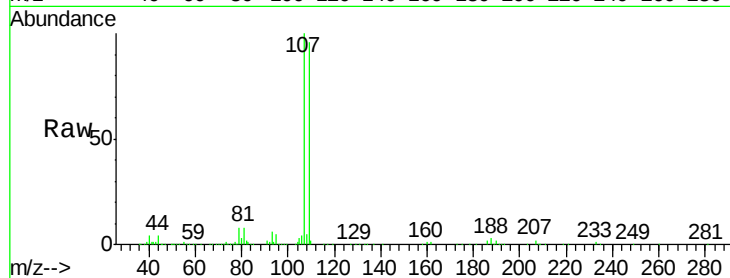
Ion Ratio Lower Upper

107 100

109 91.4 74.3 111.5

Manual Integrations
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.13

80000

60000

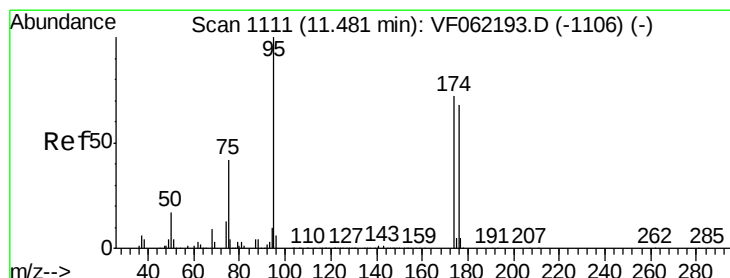
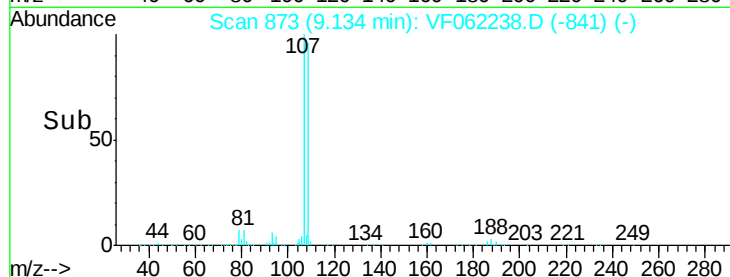
40000

20000

0

Time-->

9.00 9.10 9.20 9.30



#62

4-Bromofluorobenzene

Concen: 45.358 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

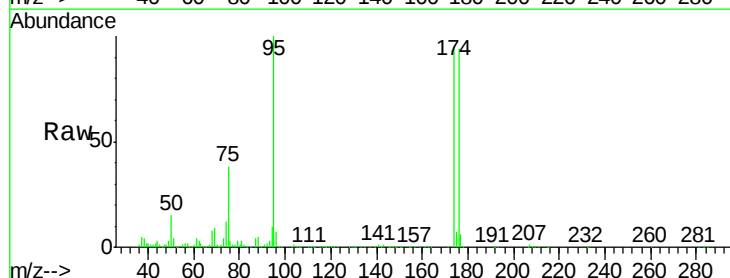
Tgt Ion: 95 Resp: 274550

Ion Ratio Lower Upper

95 100

174 88.6 0.0 159.4

176 88.1 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

150000

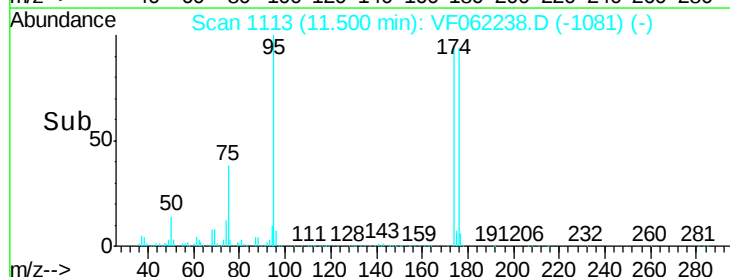
100000

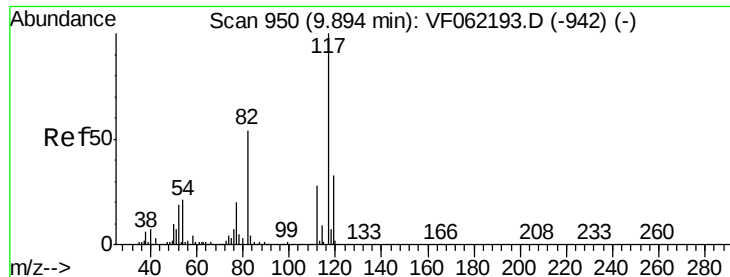
50000

0

Time-->

11.40 11.50 11.60





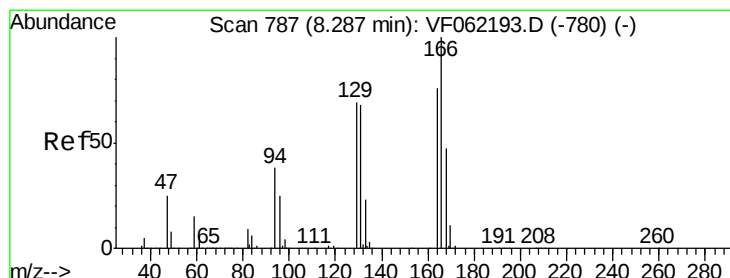
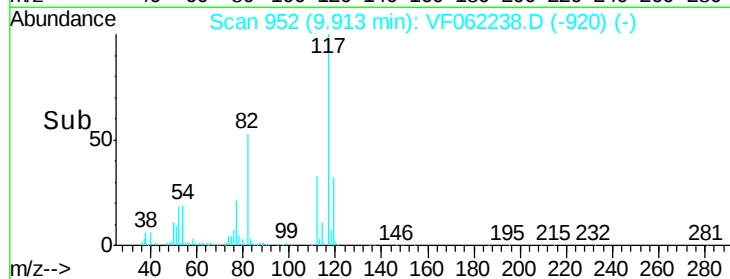
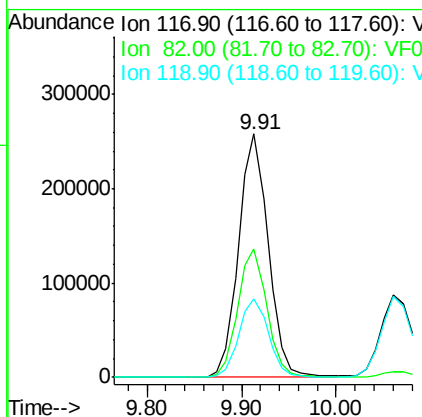
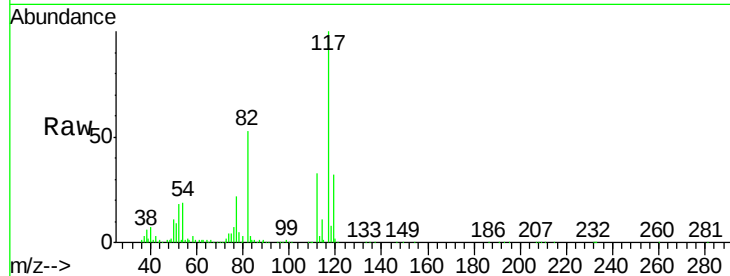
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	559712		
82	52.7		43.2	64.8
119	32.2		26.2	39.4

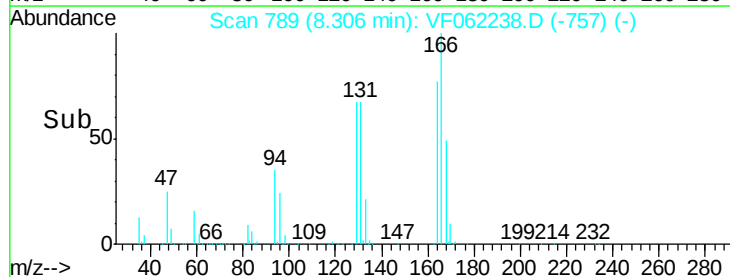
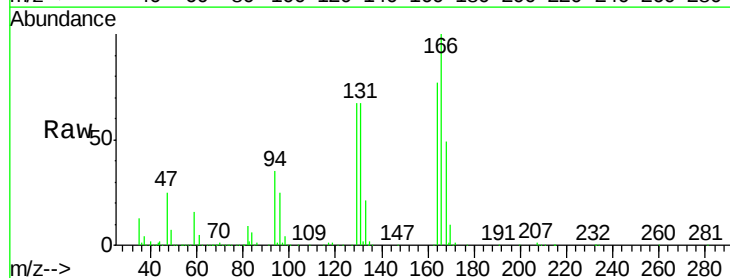
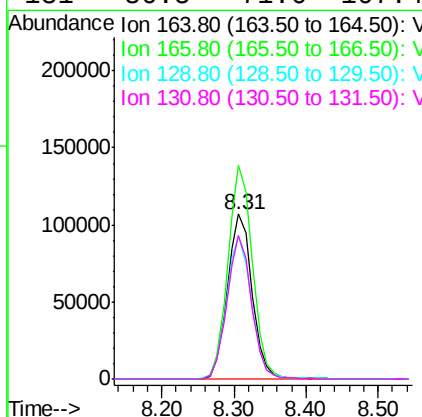
Manual Integrations
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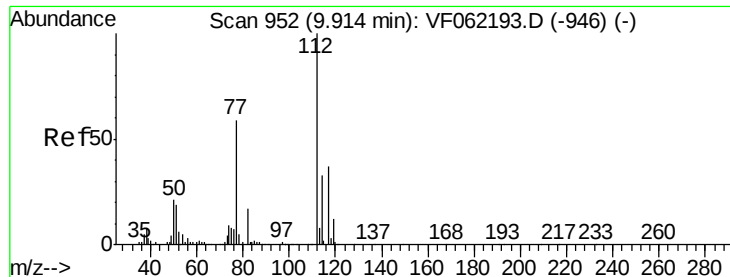
MMDadoda
4/24/2019 8:29:13 AM



#64
Tetrachloroethene
Concen: 50.561 ug/l
RT: 8.31 min Scan# 789
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	255466		
166	129.6		104.7	157.1
129	87.4		72.6	109.0
131	86.5		71.6	107.4





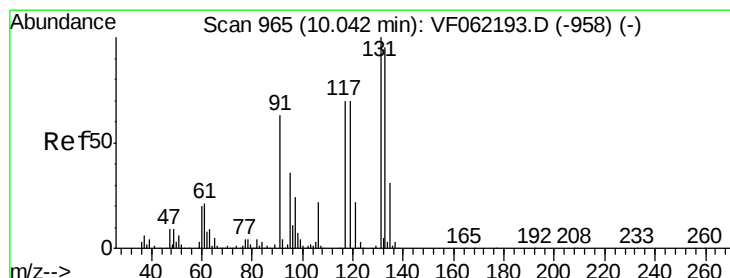
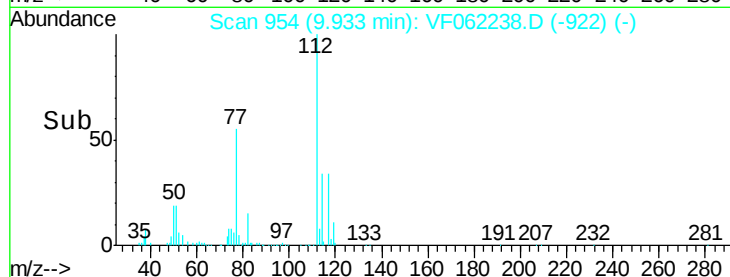
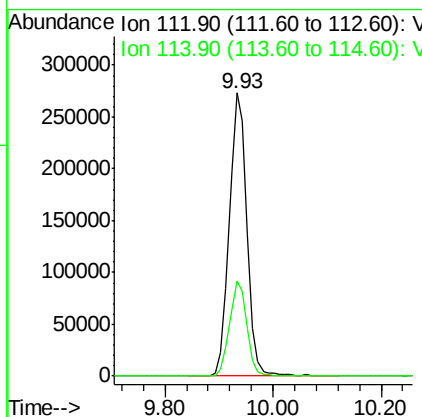
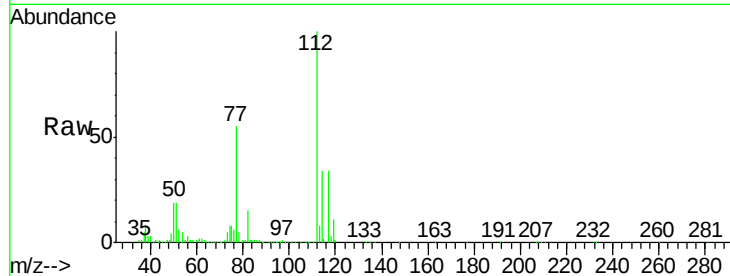
#65
Chlorobenzene
Concen: 51.853 ug/l
RT: 9.93 min Scan# 954
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.7	26.1	39.1

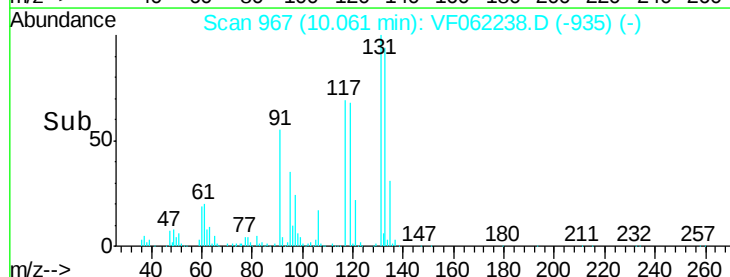
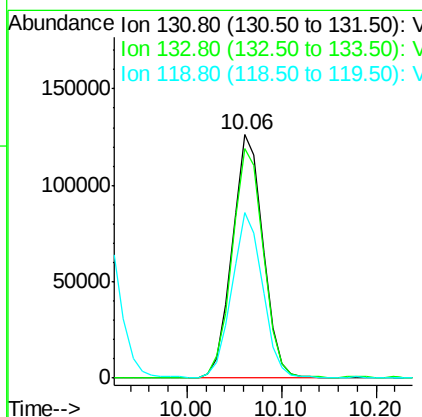
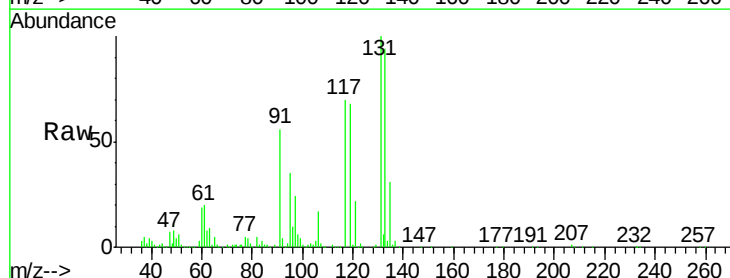
Manual Integrations
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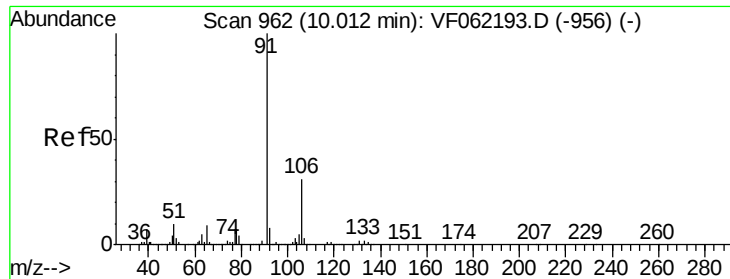
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 50.931 ug/l
RT: 10.06 min Scan# 967
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.5	47.7	143.1
119	67.3	34.6	103.9





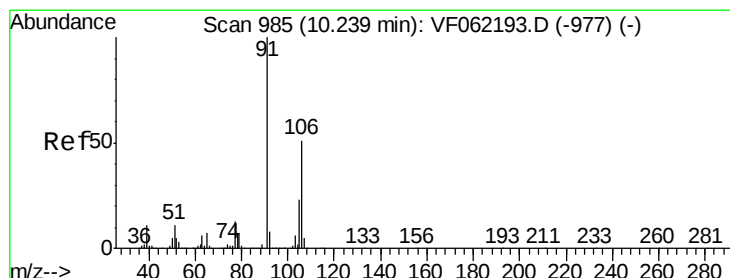
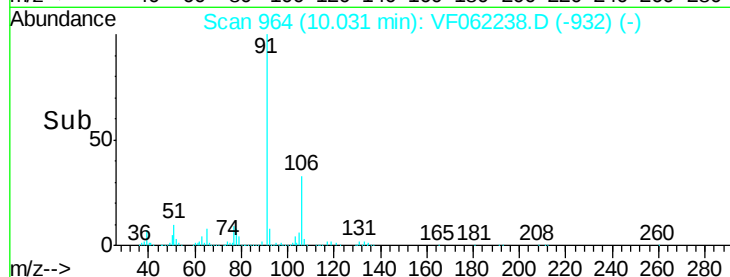
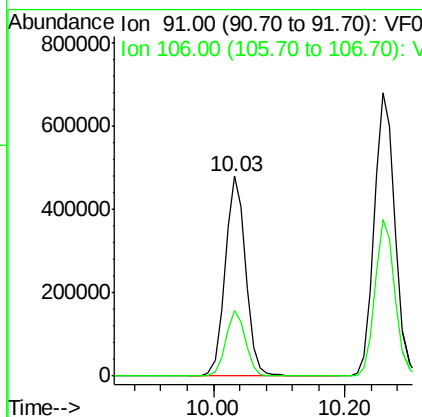
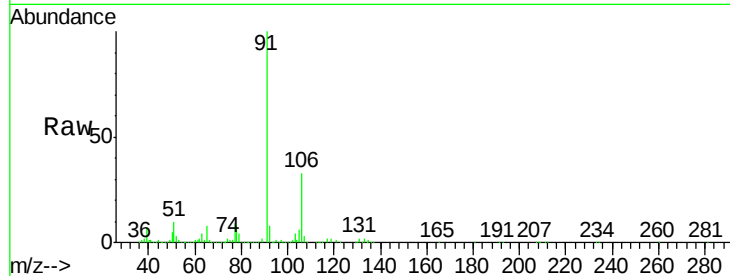
#67
Ethyl Benzene
Concen: 48.174 ug/l
RT: 10.03 min Scan# 964
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1045469
Ion Ratio Lower Upper
91 100
106 32.8 24.9 37.3

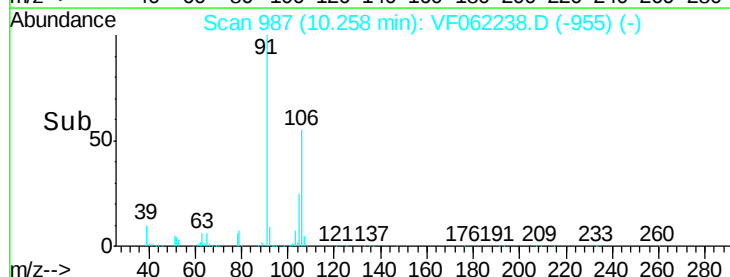
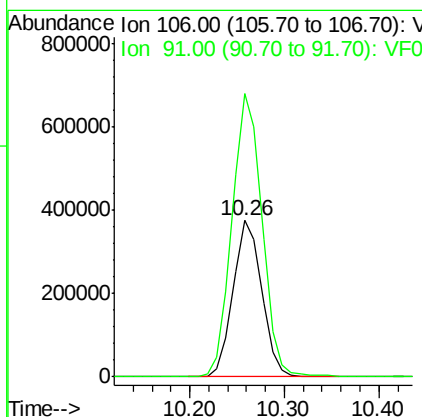
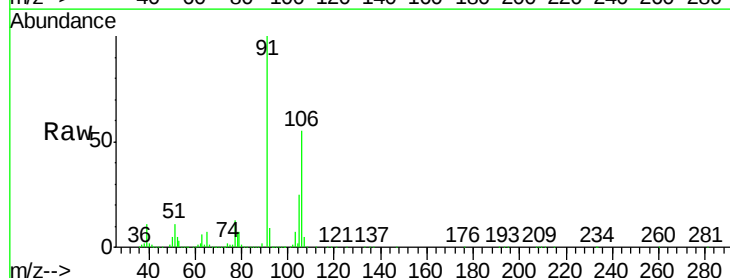
Manual Integrations
APPROVED

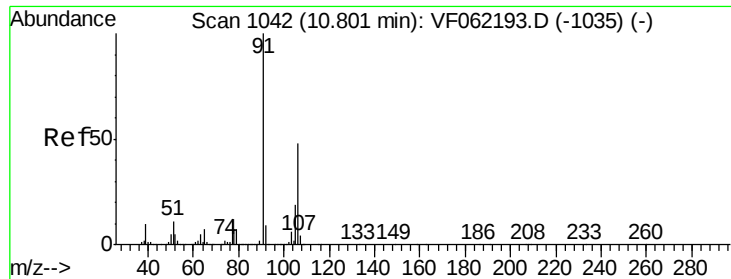
MMDadoda
4/24/2019 8:29:13 AM



#68
m/p-Xylenes
Concen: 98.605 ug/l
RT: 10.26 min Scan# 987
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion: 106 Resp: 787757
Ion Ratio Lower Upper
106 100
91 188.9 159.1 238.7





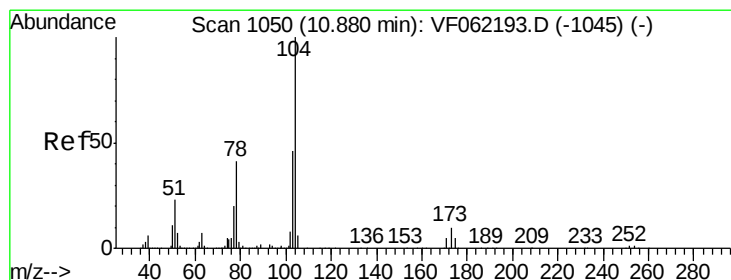
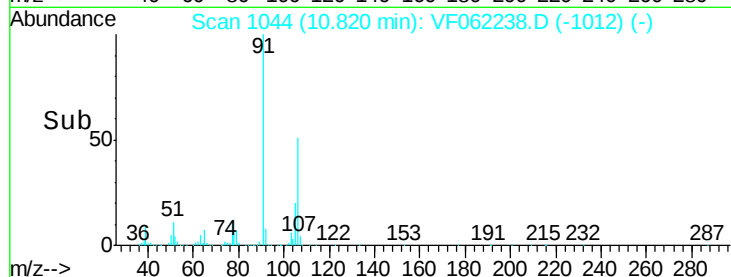
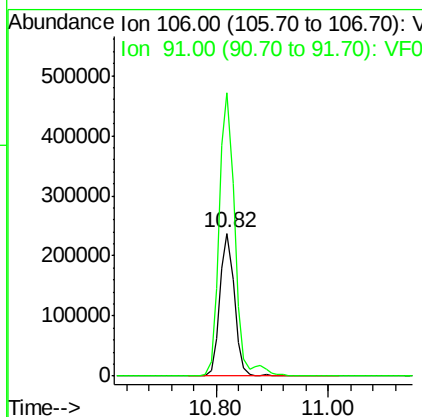
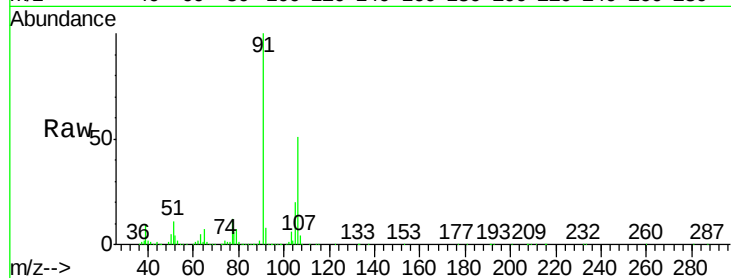
#69
o-Xylene
Concen: 48.858 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 433365
Ion Ratio Lower Upper
106 100
91 213.0 107.5 322.4

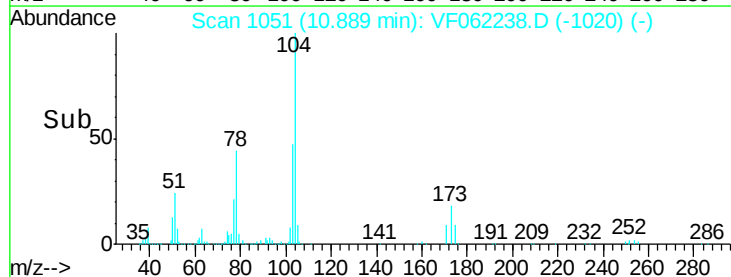
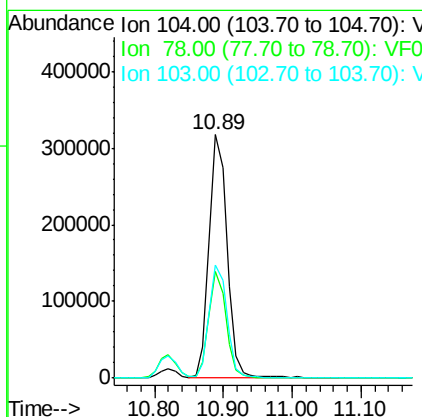
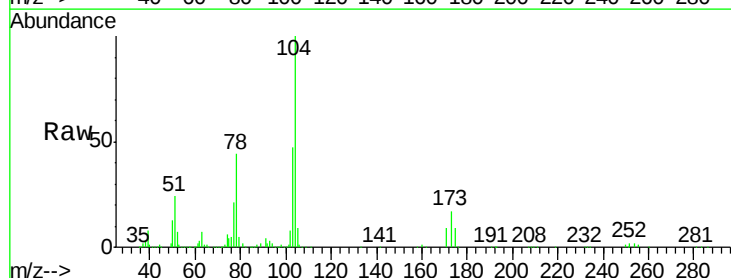
Manual Integrations
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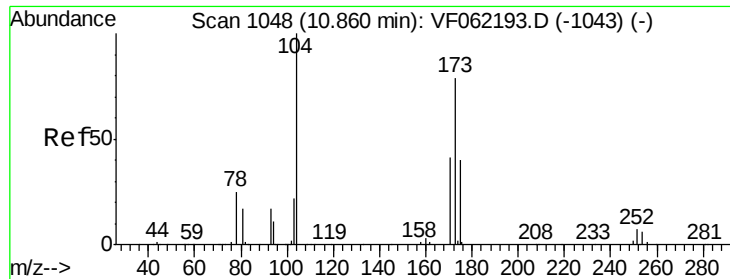
MMDadoda
4/24/2019 8:29:13 AM



#70
Styrene
Concen: 46.517 ug/l
RT: 10.89 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion:104 Resp: 582267
Ion Ratio Lower Upper
104 100
78 42.4 34.5 51.7
103 46.8 37.2 55.8





#71

Bromoform

Concen: 47.118 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 139038

Ion Ratio Lower Upper

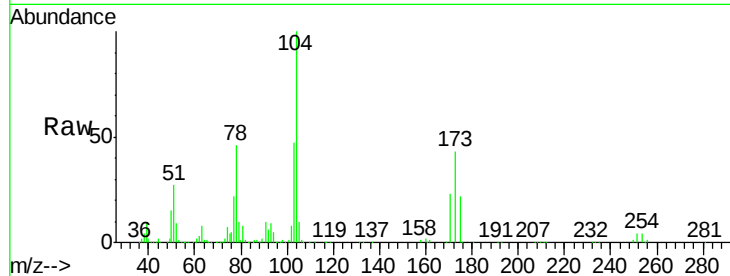
173 100

175 50.1 24.5 73.5

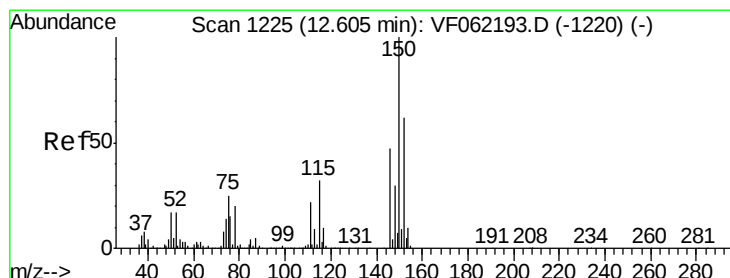
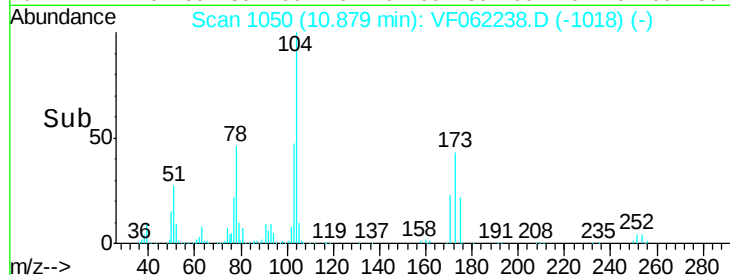
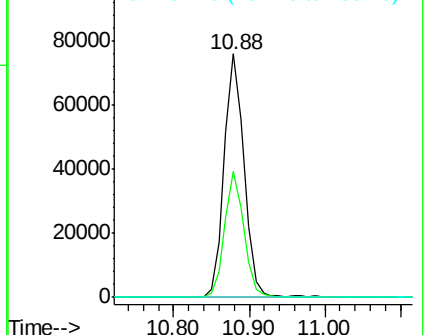
254 0.1 0.1 0.1#

Manual Integrations
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.61 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

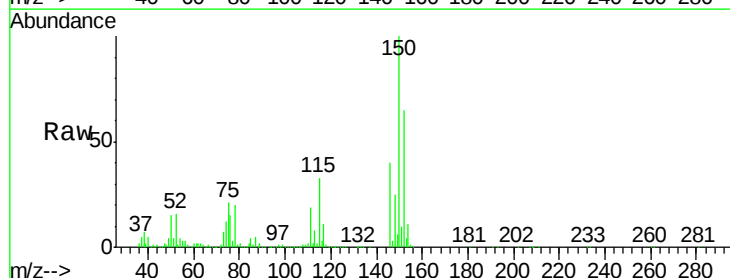
Tgt Ion:152 Resp: 288129

Ion Ratio Lower Upper

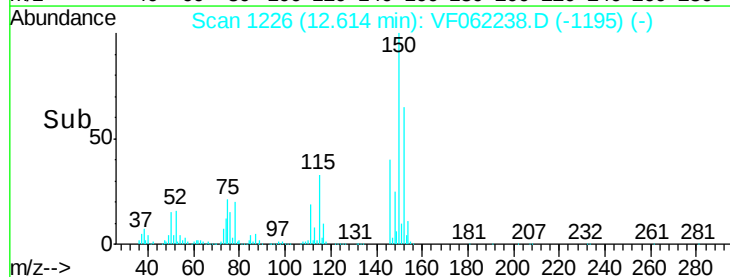
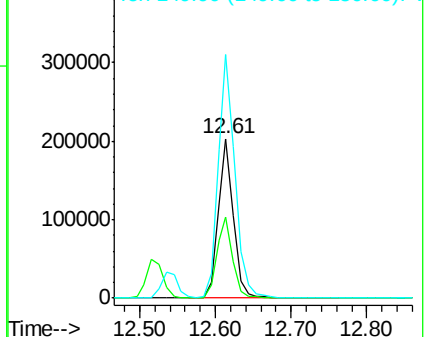
152 100

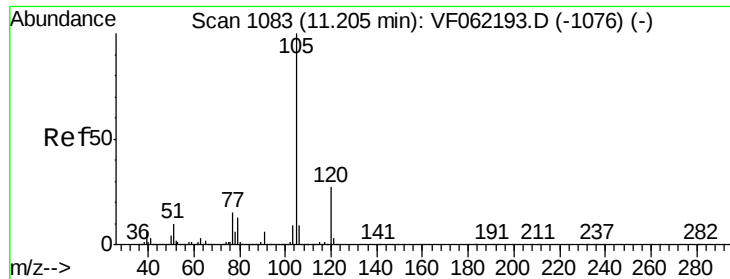
115 52.7 27.8 83.3

150 167.6 0.0 341.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 47.862 ug/l

RT: 11.21 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1184612

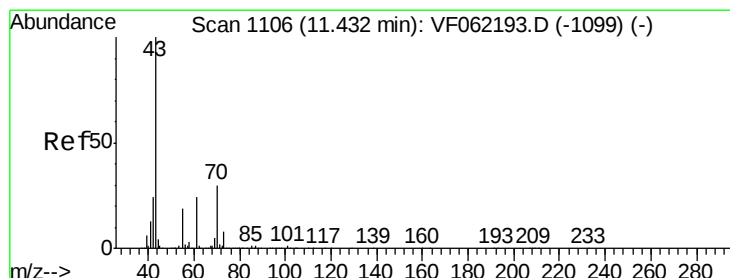
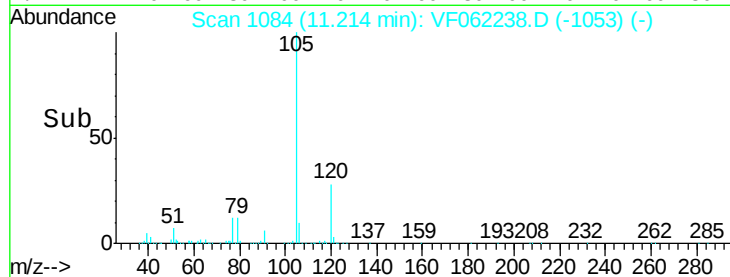
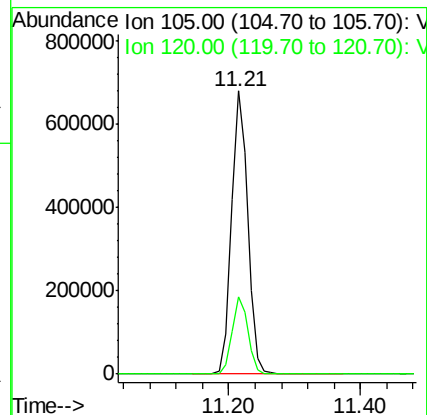
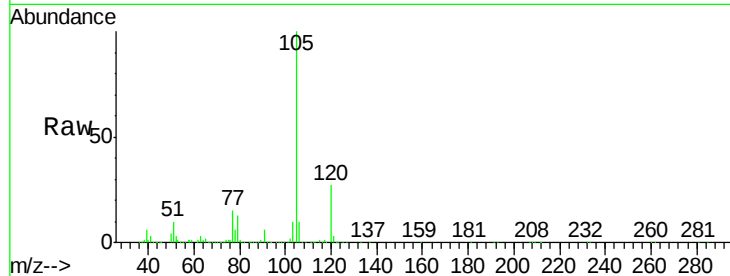
Ion Ratio Lower Upper

105 100

120 26.7 13.0 38.9

Manual Integrations
APPROVED

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#74

N-ethyl acetate

Concen: 45.183 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Tgt Ion: 43 Resp: 266578

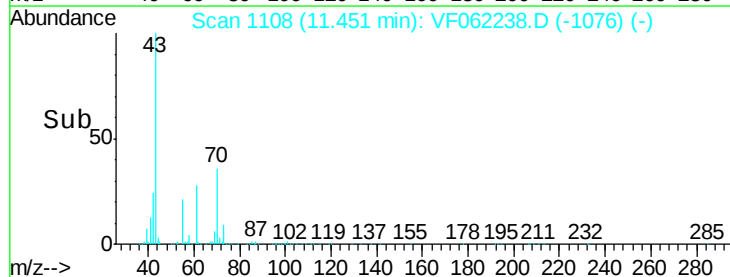
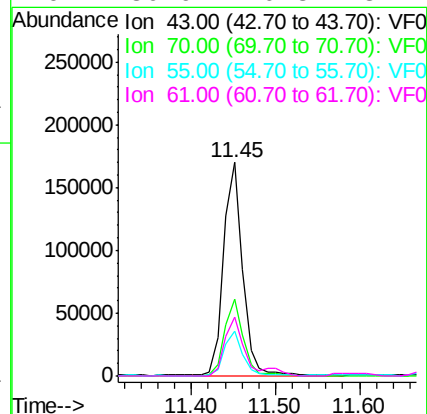
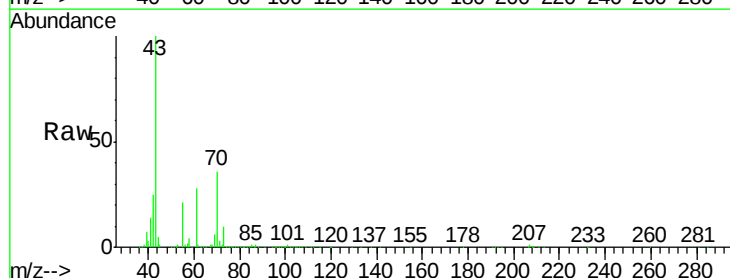
Ion Ratio Lower Upper

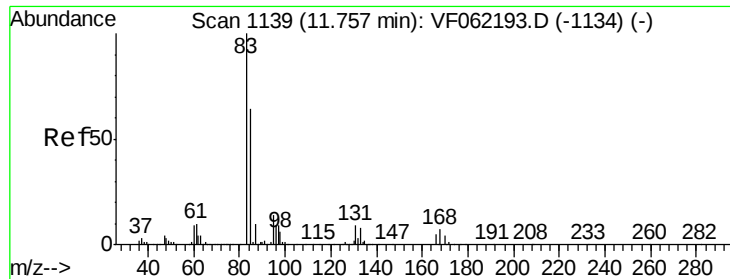
43 100

70 35.8 27.0 40.4

55 20.5 15.7 23.5

61 30.9 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 45.820 ug/l

RT: 11.77 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

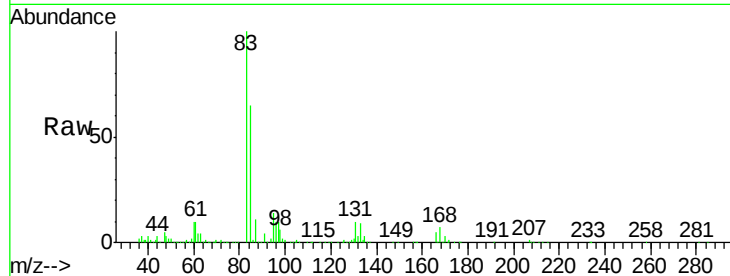
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	195034
Ion Ratio	Lower	Upper	
83	100		
131	10.4	4.5	13.5
85	70.6	34.7	104.1

Manual Integrations
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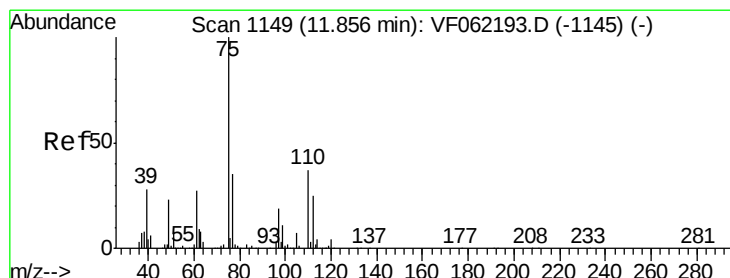
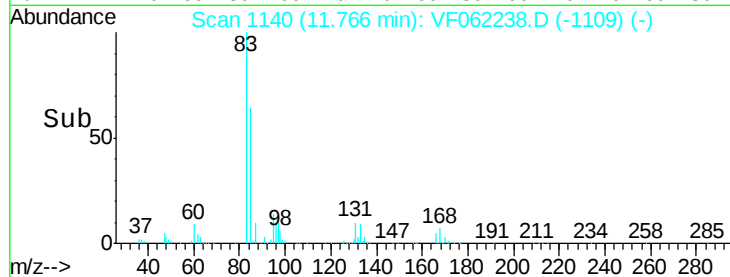
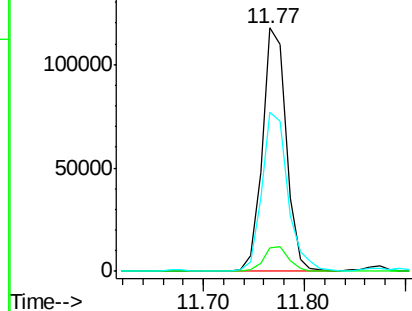
MMDadoda
4/24/2019 8:29:13 AM



Abundance Ion 82.90 (82.60 to 83.60): VF0

Ion 130.80 (130.50 to 131.50): VF0

Ion 84.90 (84.60 to 85.60): VF0



#76

1,2,3-Trichloropropane

Concen: 42.945 ug/l

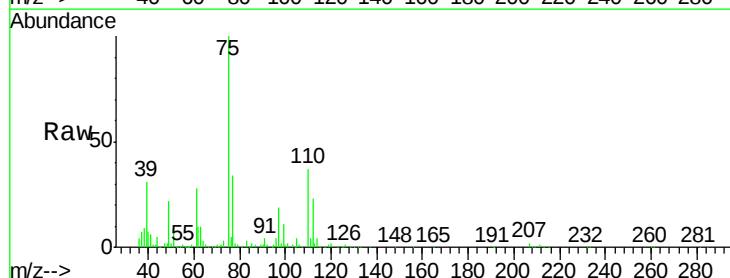
RT: 11.86 min Scan# 1150

Delta R.T. 0.01 min

Lab File: VF062238.D

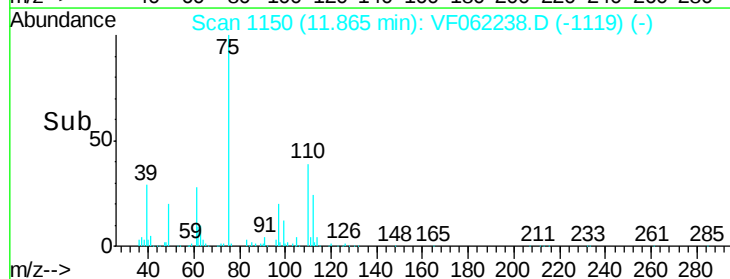
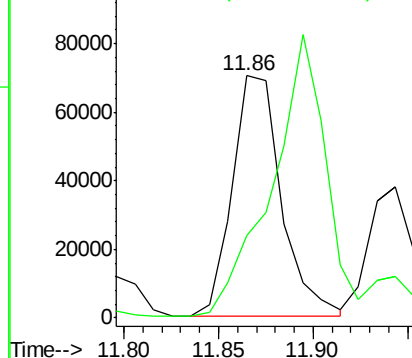
Acq: 22 Apr 2019 11:08

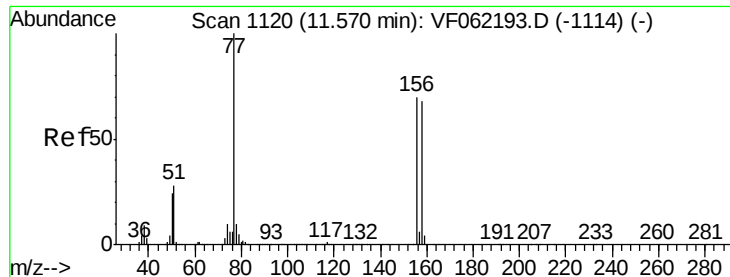
Tgt Ion:	75	Resp:	125764
Ion Ratio	Lower	Upper	
75	100		
77	0.0	7.4	22.2#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 53.327 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

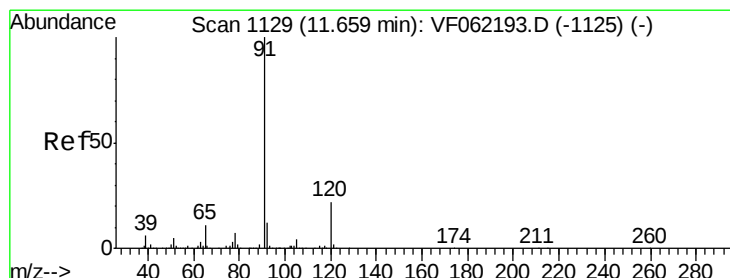
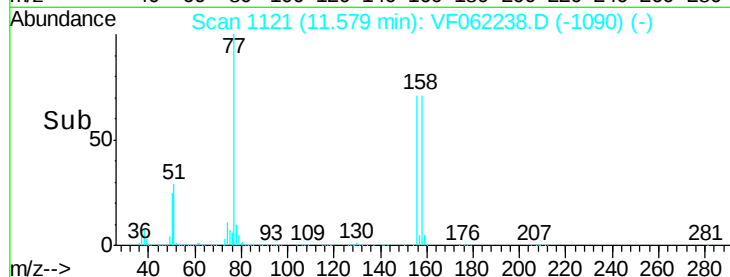
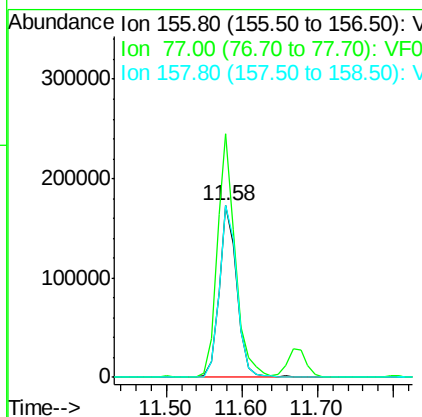
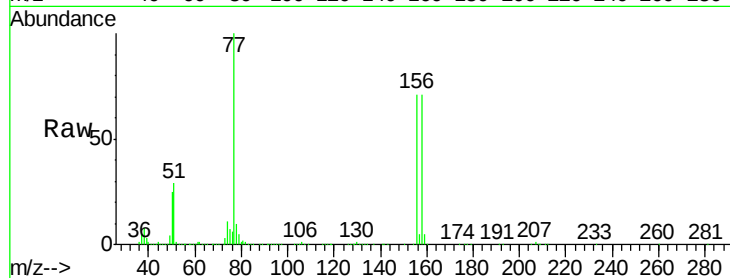
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	282740
Ion Ratio	Lower	Upper	
156	100		
77	143.0	80.9	242.7
158	100.7	49.8	149.4

Manual Integrations
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#78

n-propylbenzene

Concen: 47.976 ug/l

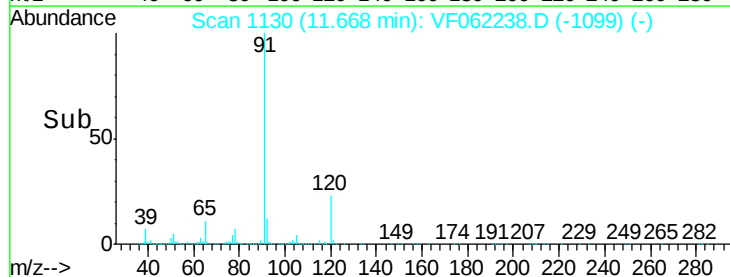
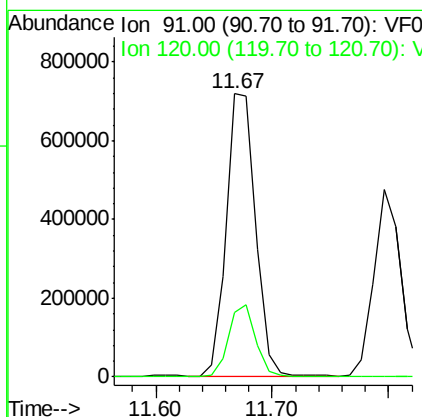
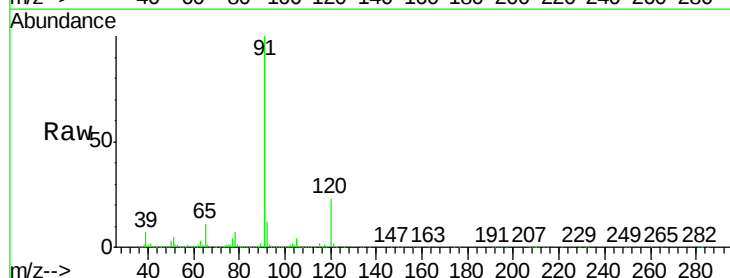
RT: 11.67 min Scan# 1130

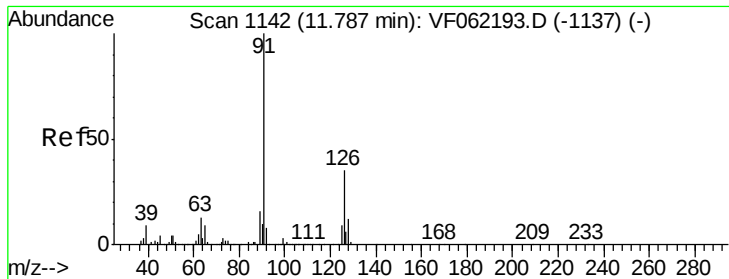
Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Tgt Ion:	91	Resp:	1252624
Ion Ratio	Lower	Upper	
91	100		
120	23.8	11.2	33.6





#79

2-Chlorotoluene

Concen: 47.940 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 759267

Ion Ratio Lower Upper

91 100

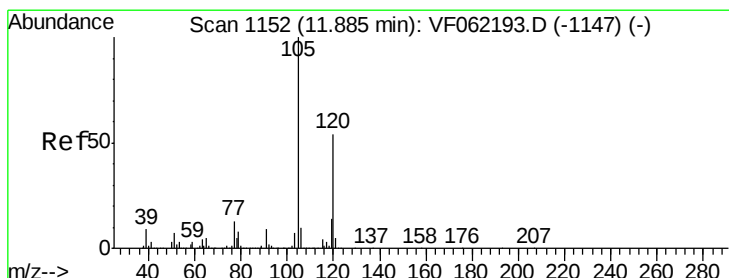
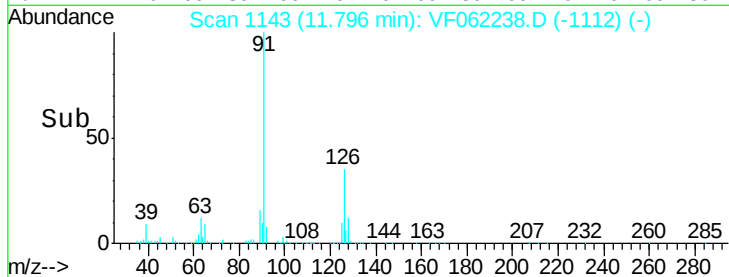
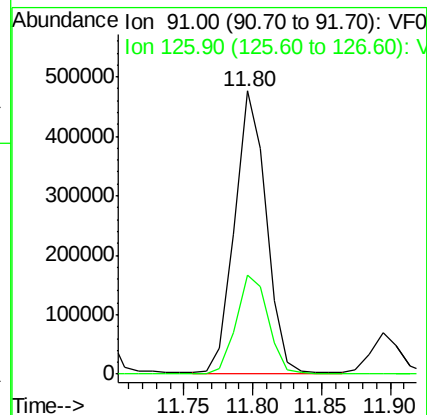
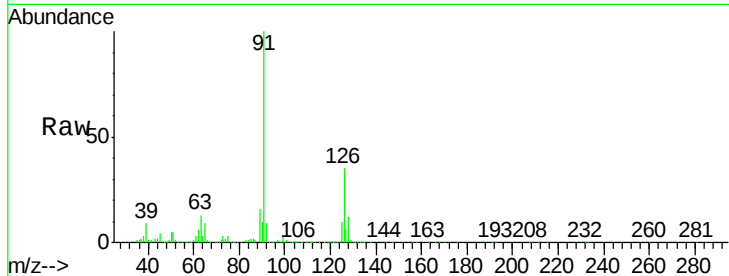
126 36.2 16.9 50.6

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 47.950 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062238.D

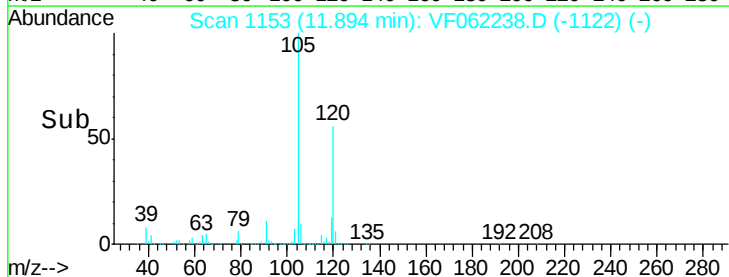
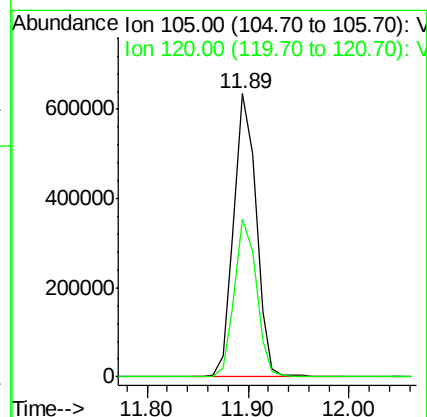
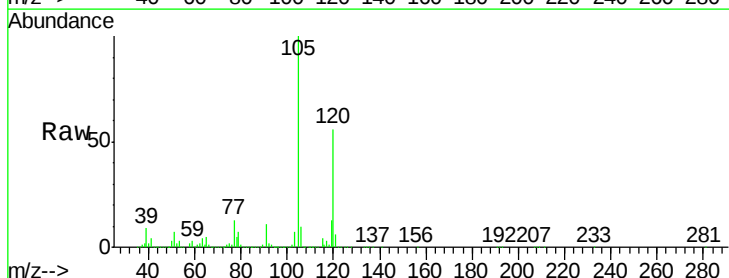
Acq: 22 Apr 2019 11:08

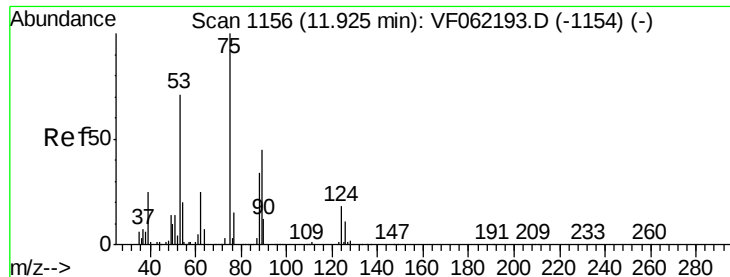
Tgt Ion: 105 Resp: 988450

Ion Ratio Lower Upper

105 100

120 54.7 26.2 78.5





#81

trans-1,4-Dichloro-2-butene

Concen: 44.718 ug/l m

RT: 11.94 min Scan# 1158

Delta R.T. 0.02 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

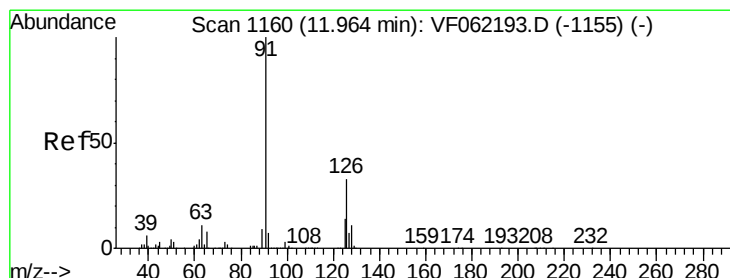
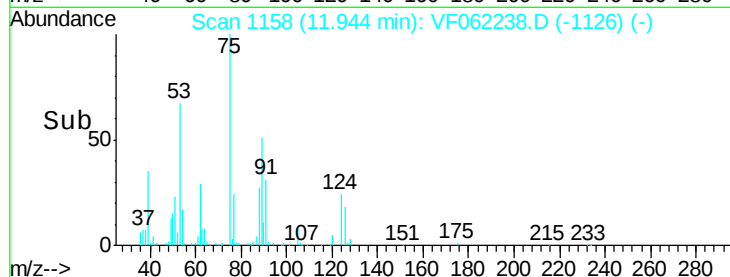
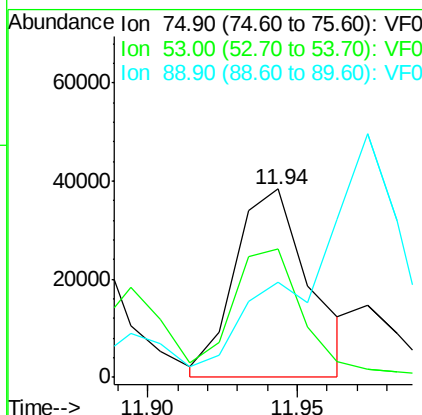
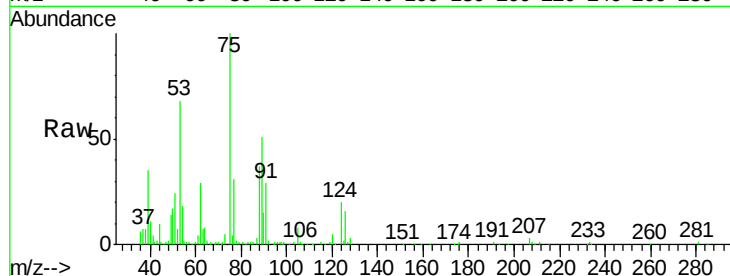
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	66787
Ion Ratio	Lower	Upper	
75	100		
53	67.6	50.2	75.4
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 47.652 ug/l

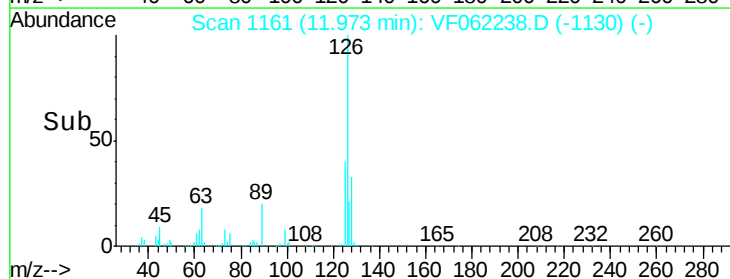
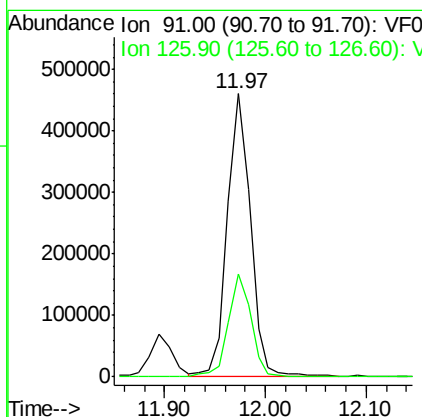
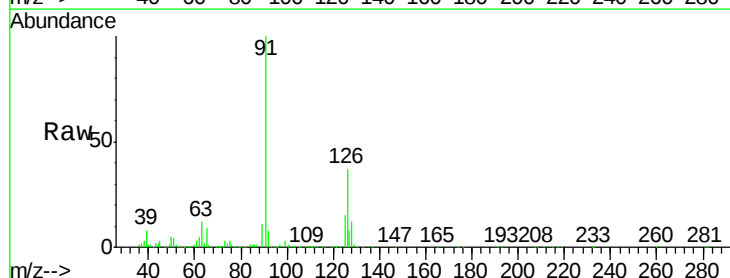
RT: 11.97 min Scan# 1161

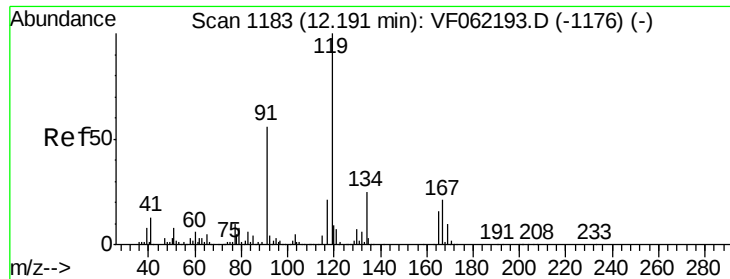
Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Tgt Ion:	91	Resp:	729367
Ion Ratio	Lower	Upper	
91	100		
126	36.2	16.9	50.6





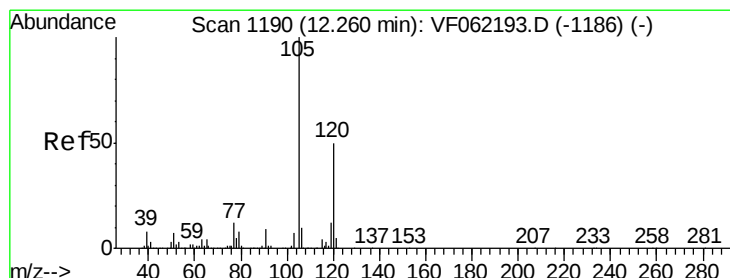
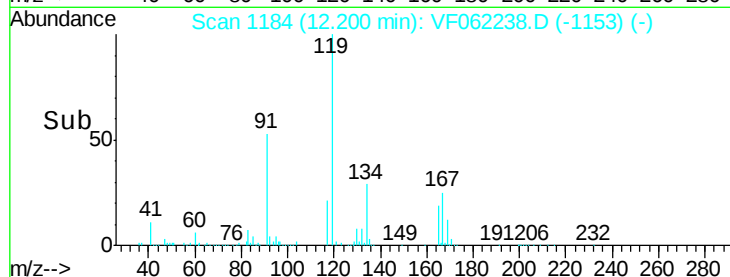
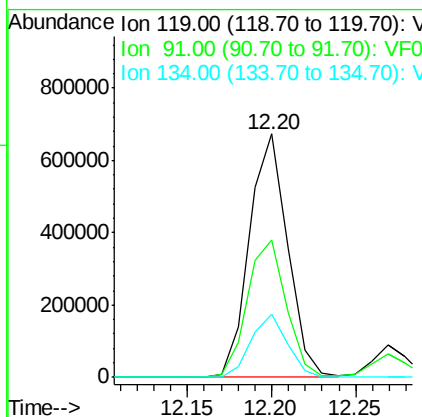
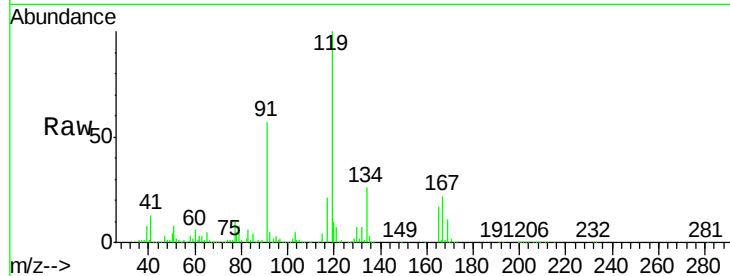
#83
tert-Butylbenzene
Concen: 49.790 ug/l
RT: 12.20 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	57.1	29.4	88.2
134	24.7	11.8	35.3

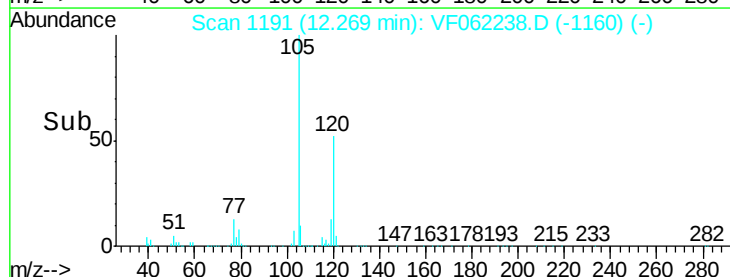
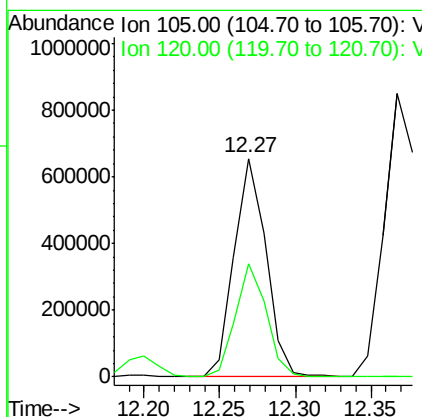
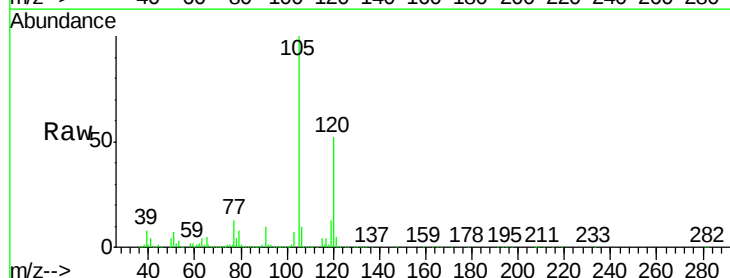
Manual Integrations
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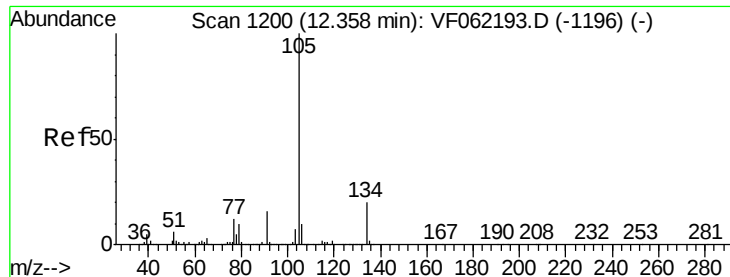
MMDadoda
4/24/2019 8:29:13 AM



#84
1,2,4-Trimethylbenzene
Concen: 48.189 ug/l
RT: 12.27 min Scan# 1191
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.0	72.0





#85

sec-Butylbenzene

Concen: 47.912 ug/l

RT: 12.37 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1326011

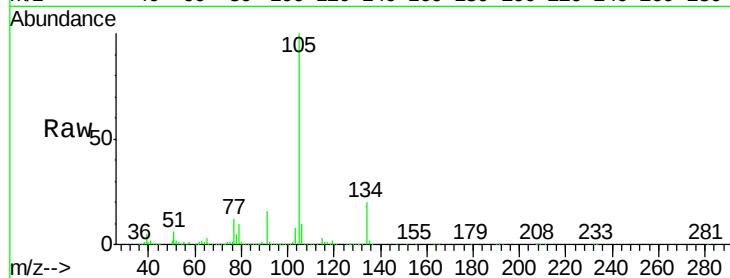
Ion Ratio Lower Upper

105 100

134 20.1 9.7 29.1

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

Ion 134.00 (133.70 to 134.70): V

1000000

800000

600000

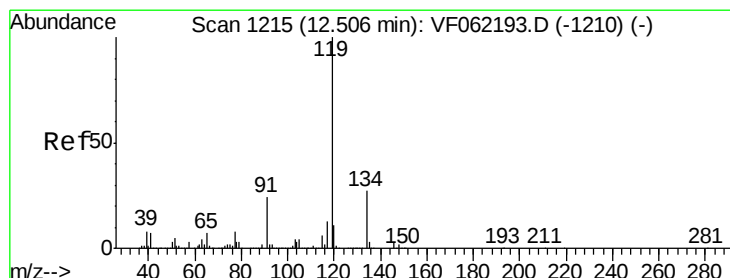
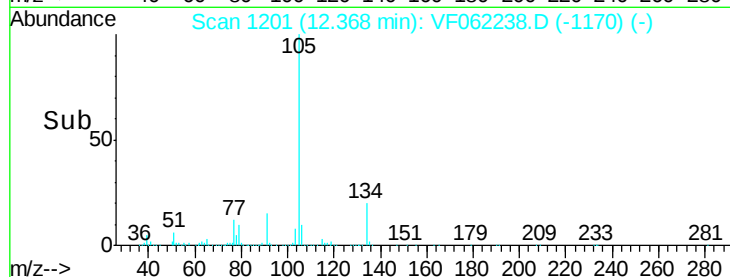
400000

200000

0

12.30 12.40 12.50

Time-->



#86

p-Isopropyltoluene

Concen: 48.492 ug/l

RT: 12.52 min Scan# 1216

Delta R.T. 0.01 min

Lab File: VF062238.D

Acq: 22 Apr 2019 11:08

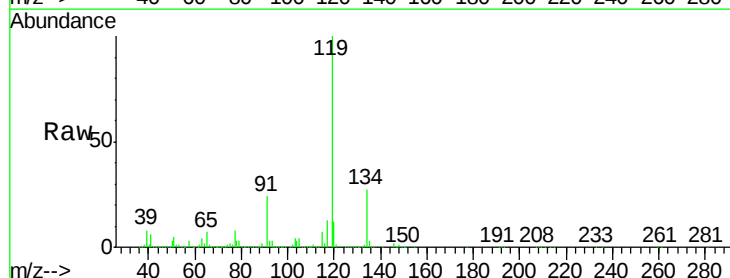
Tgt Ion:119 Resp: 1138423

Ion Ratio Lower Upper

119 100

134 26.9 13.2 39.5

91 22.8 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

1000000

800000

600000

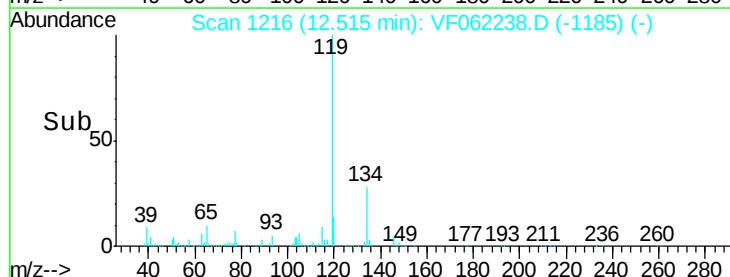
400000

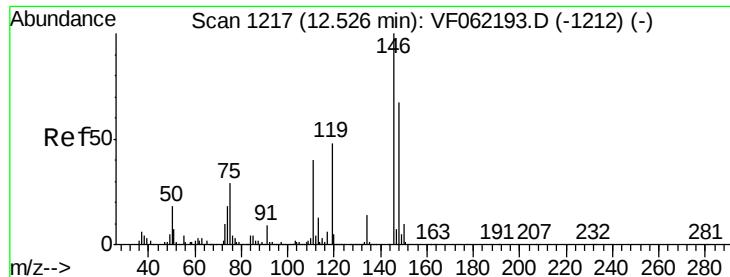
200000

0

12.40 12.60

Time-->





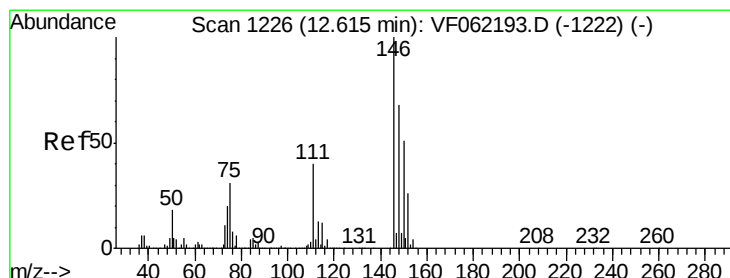
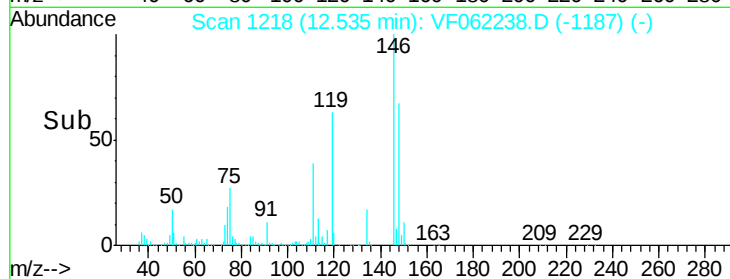
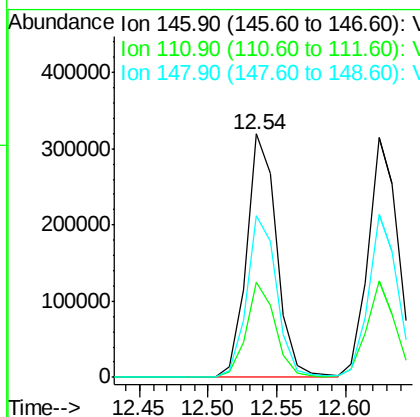
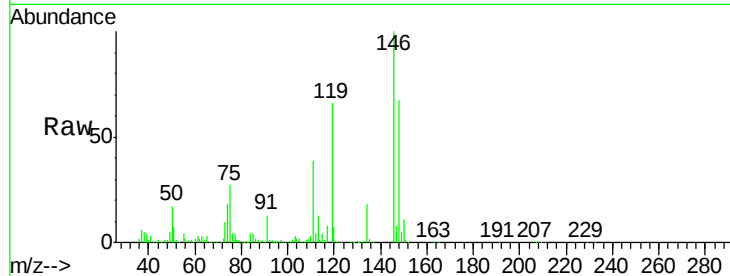
#87
 1,3-Dichlorobenzene
 Concen: 49.595 ug/l
 RT: 12.54 min Scan# 1218
 Delta R.T. 0.01 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	19.7	59.0
148	66.5	32.9	98.6

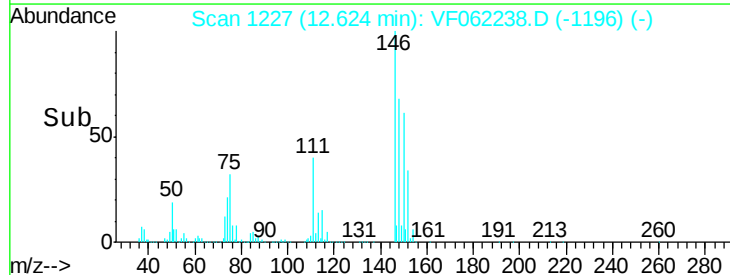
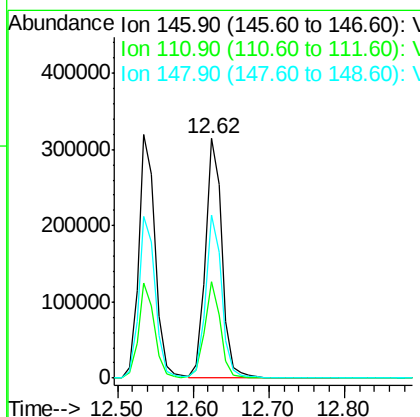
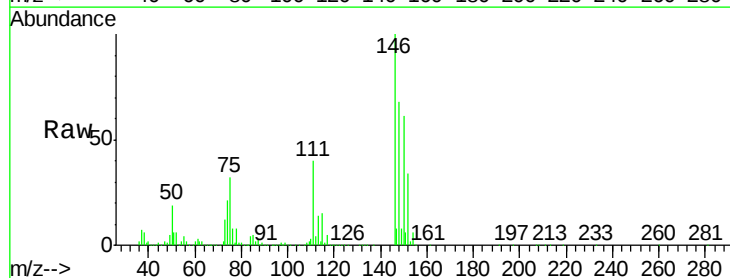
Manual Integrations
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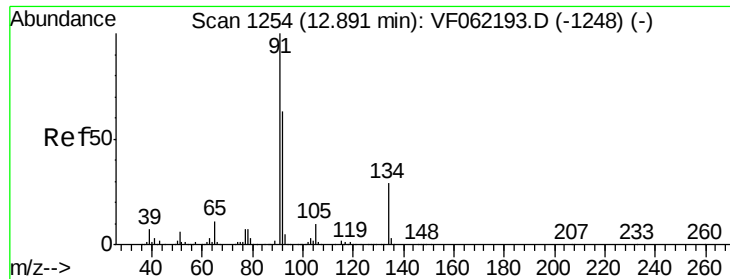
MMDadoda
 4/24/2019 8:29:13 AM



#88
 1,4-Dichlorobenzene
 Concen: 50.778 ug/l
 RT: 12.62 min Scan# 1227
 Delta R.T. 0.01 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.1	20.0	60.0
148	66.1	33.6	100.8





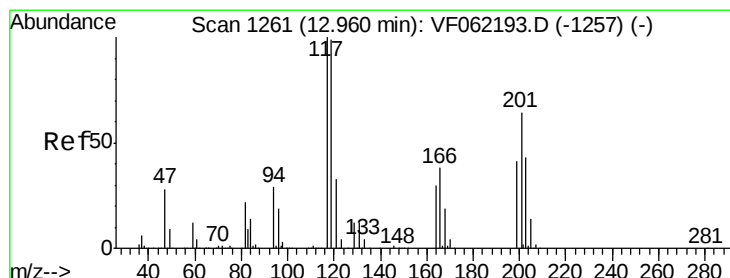
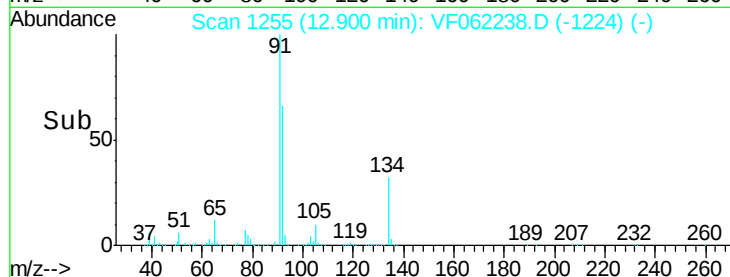
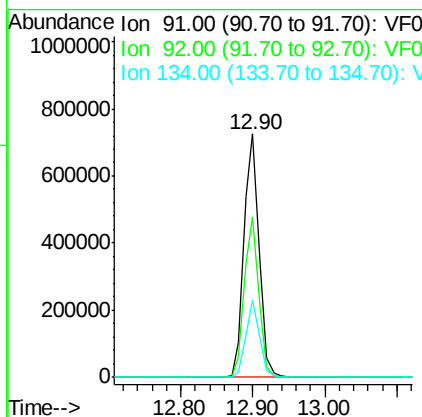
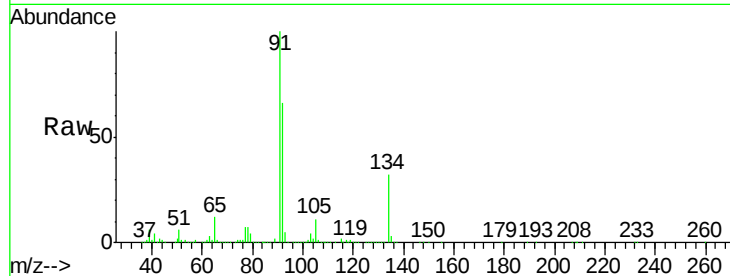
#89
n-Butylbenzene
Concen: 55.370 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	63.6	31.2	93.6
134	28.9	13.1	39.1

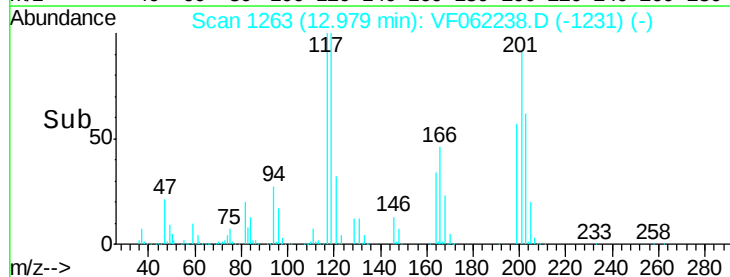
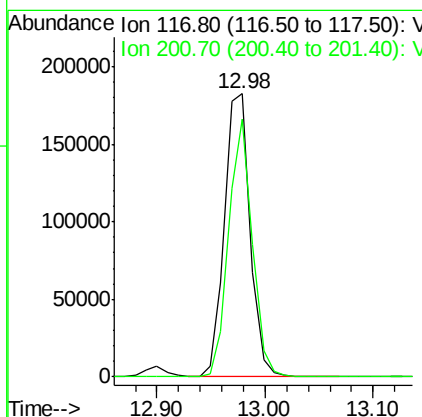
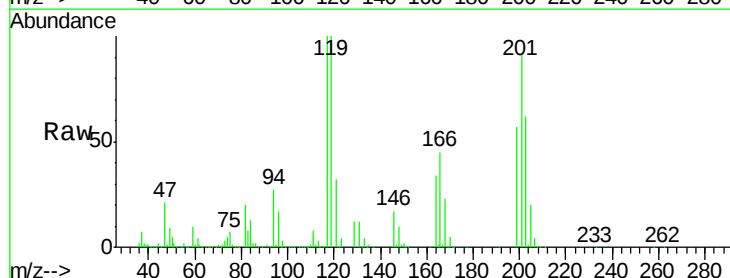
Manual Integrations
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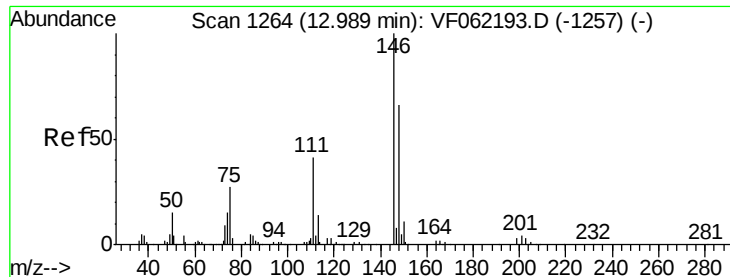
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#90
Hexachloroethane
Concen: 50.162 ug/l
RT: 12.98 min Scan# 1263
Delta R.T. 0.02 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
117	100		
201	83.5	37.7	113.1





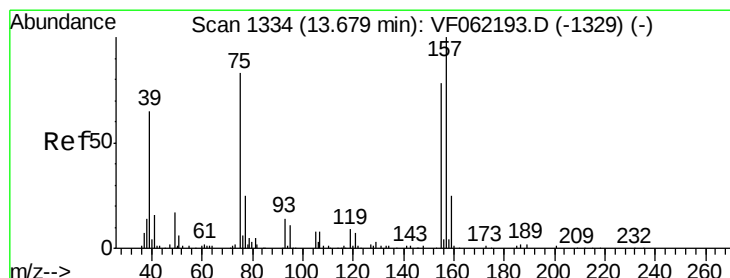
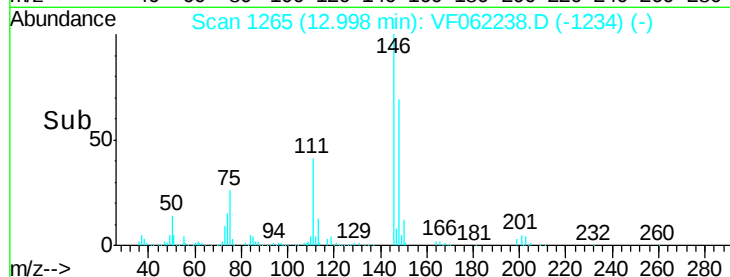
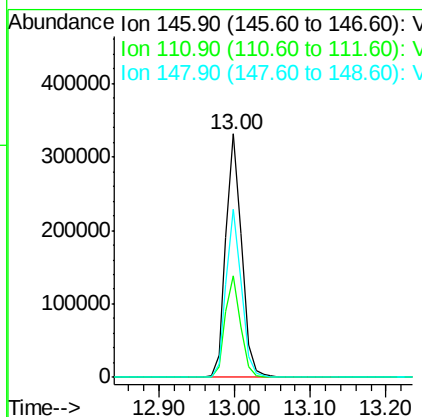
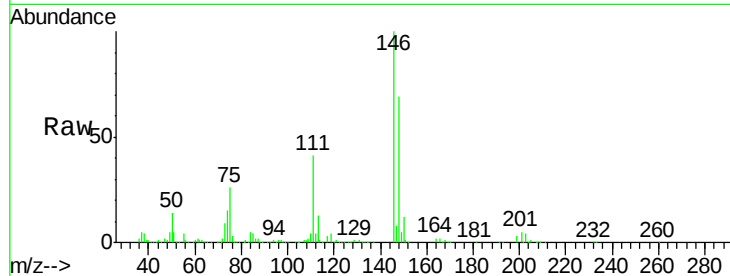
#91
 1,2-Dichlorobenzene
 Concen: 50.647 ug/l
 RT: 13.00 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	481162		
111	41.0	20.8	62.5	
148	66.7	33.0	99.0	

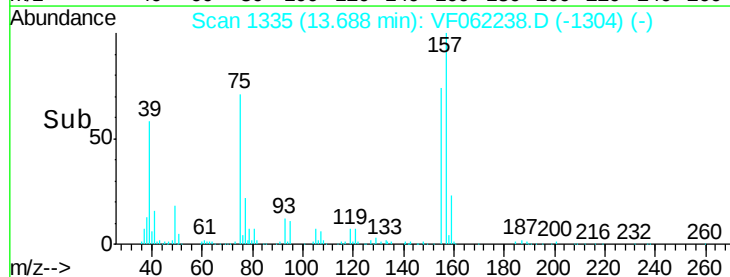
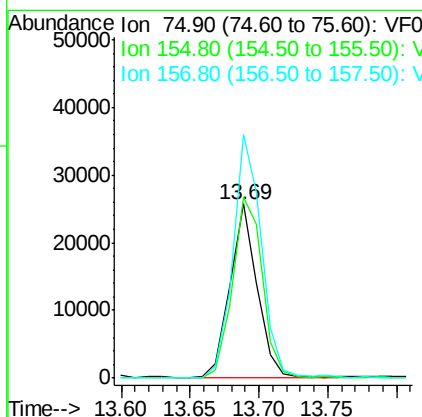
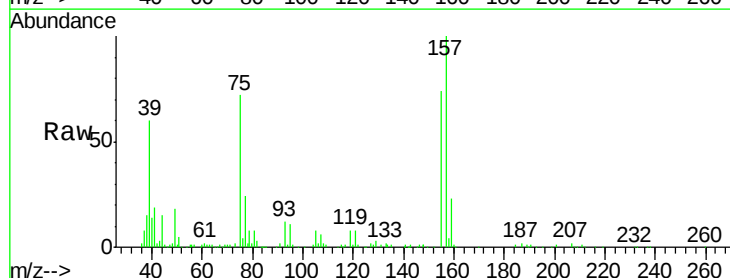
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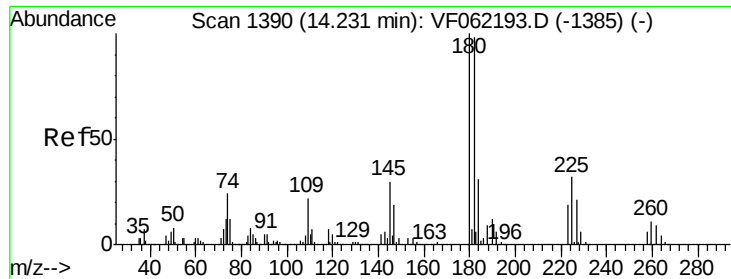
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 4/24/2019 8:29:13 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 42.789 ug/l
 RT: 13.69 min Scan# 1335
 Delta R.T. 0.01 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	35784		
155	112.7	47.6	142.8	
157	146.1	61.3	183.9	





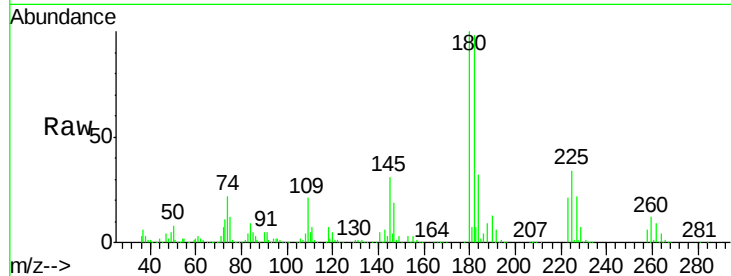
#93
 1,2,4-Trichlorobenzene
 Concen: 50.337 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

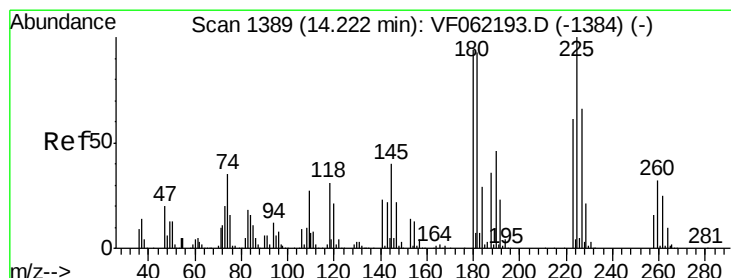
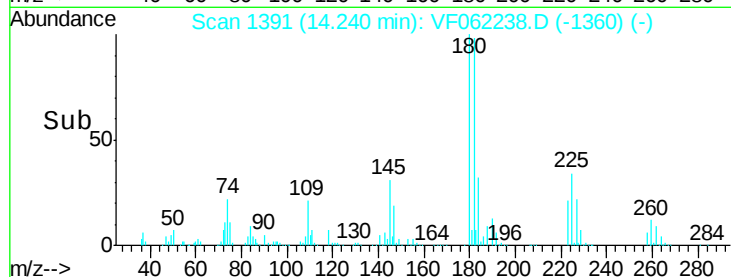
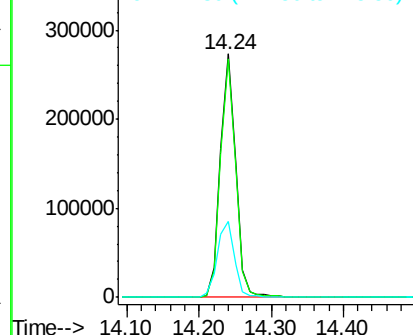
Tot Ion	Ratio	Resp	Lower	Upper
180	100	400122		
182	97.5	49.3	147.9	
145	35.2	18.1	54.4	

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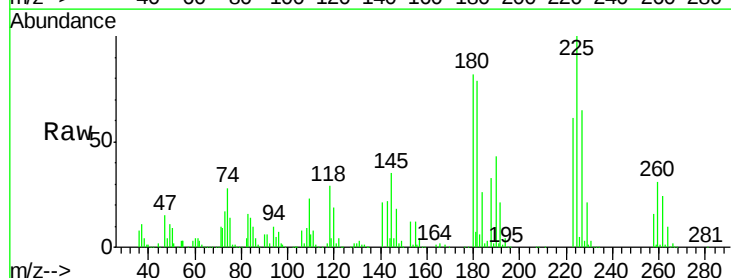


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

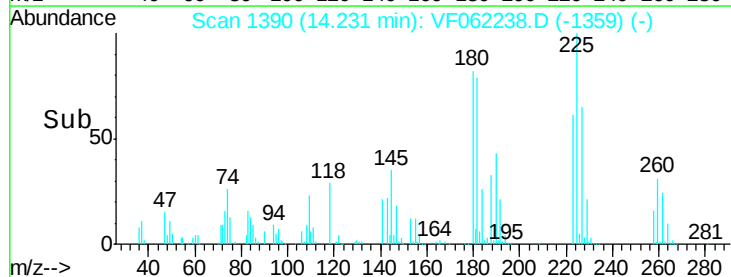
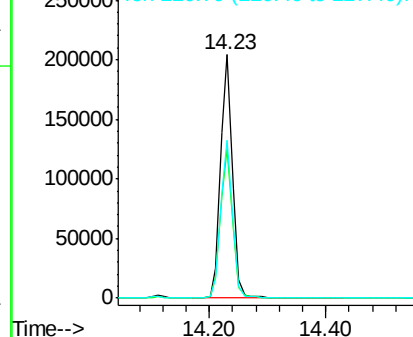


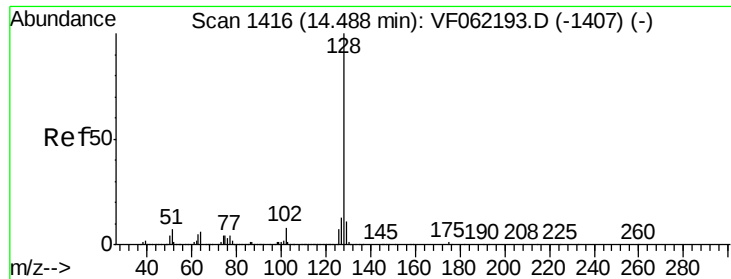
#94
 Hexachlorobutadiene
 Concen: 53.033 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. 0.01 min
 Lab File: VF062238.D
 Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	289053		
223	61.3	31.0	93.0	
227	64.3	32.4	97.0	



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





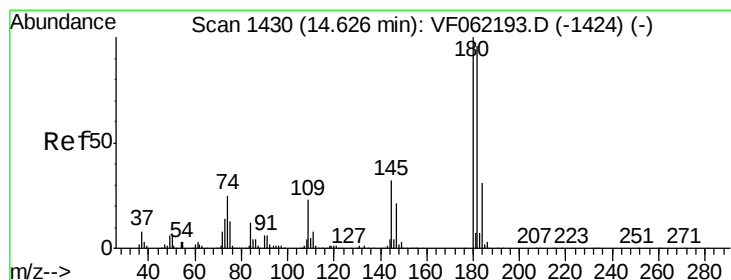
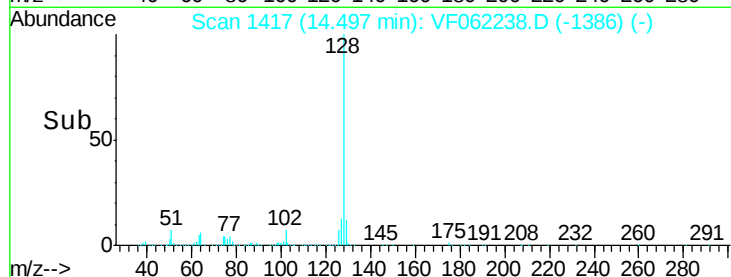
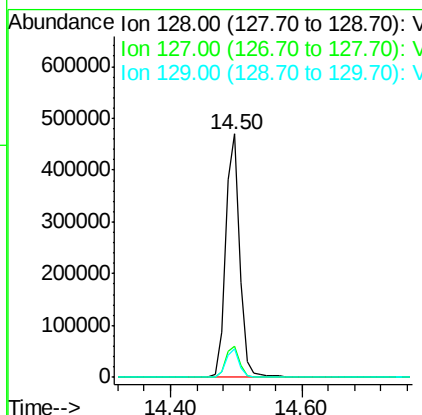
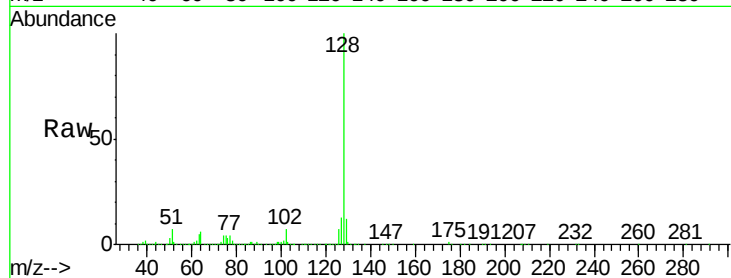
#95
Naphthalene
Concen: 50.513 ug/l
RT: 14.50 min Scan# 1417
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.4	9.2	13.8

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#96
1,2,3-Trichlorobenzene
Concen: 51.467 ug/l
RT: 14.63 min Scan# 1431
Delta R.T. 0.01 min
Lab File: VF062238.D
Acq: 22 Apr 2019 11:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.2	48.4	145.3
145	30.2	15.6	46.8

