

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061826.D
 Acq On : 4 Mar 2019 17:58
 Operator : VA/AP
 Sample : VSTDIC075
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:47:31 AM

Quant Time: Mar 05 04:52:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	310164	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	456968	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	405905	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	210258	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	167577	73.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	147.36%	
35) Dibromofluoromethane	4.12	113	232589	68.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	137.08%	
50) Toluene-d8	7.56	98	717224	73.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	147.04%	
62) 4-Bromofluorobenzene	11.41	95	273227	69.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	138.44%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	250665	70.374	ug/l	99
3) Chloromethane	1.10	50	242903	64.996	ug/l	96
4) Vinyl Chloride	1.14	62	235811	67.874	ug/l	97
5) Bromomethane	1.32	94	161704	67.627	ug/l	95
6) Chloroethane	1.40	64	109178	63.767	ug/l	99
7) Trichlorofluoromethane	1.48	101	305602m	72.930	ug/l	
8) Diethyl Ether	1.63	74	69256	65.583	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.85	101	193296	63.943	ug/l	94
10) Methyl Iodide	1.92	142	385668m	66.788	ug/l	
11) Tert butyl alcohol	2.58	59	44442	337.622	ug/l	94
12) 1,1-Dichloroethene	1.80	96	181112	68.144	ug/l	91
13) Acrolein	2.01	56	48422	292.689	ug/l	91
14) Allyl chloride	2.10	41	210106	64.422	ug/l	97
15) Acrylonitrile	2.94	53	142085	304.313	ug/l	91
16) Acetone	2.24	43	155624	318.901	ug/l	95
17) Carbon Disulfide	1.83	76	582312m	69.702	ug/l	
18) Methyl Acetate	2.35	43	66810	60.772	ug/l	99
19) Methyl tert-butyl Ether	2.43	73	309615	68.163	ug/l	95
20) Methylene Chloride	2.19	84	179184m	60.783	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	154864	53.600	ug/l	99
22) Diisopropyl ether	2.81	45	540022	68.979	ug/l	98
23) Vinyl Acetate	3.19	43	1251853	327.385	ug/l	98
24) 1,1-Dichloroethane	2.88	63	322206	68.009	ug/l	99
25) 2-Butanone	4.34	43	335615	314.851	ug/l	97
26) 2,2-Dichloropropane	3.60	77	136016	67.778	ug/l	99
27) cis-1,2-Dichloroethene	3.49	96	239465	63.145	ug/l	98
28) Bromochloromethane	3.72	49	136509	60.051	ug/l	99
29) Tetrahydrofuran	4.08	42	139598	288.139	ug/l	98
30) Chloroform	3.86	83	372859	69.204	ug/l	97
31) Cyclohexane	3.69	56	334538m	65.227	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	219420	62.170	ug/l	99
36) 1,1-Dichloropropene	4.29	75	316258	69.863	ug/l	97
37) Ethyl Acetate	4.12	43	124932	59.418	ug/l #	76
38) Carbon Tetrachloride	4.00	117	223532	71.511	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	370700	69.242	ug/l	98
40) Benzene	4.64	78	812795	68.644	ug/l	100
41) Methacrylonitrile	4.75	41	68198	63.424	ug/l	94
42) 1,2-Dichloroethane	4.95	62	200275	70.710	ug/l	93
43) Isopropyl Acetate	6.97	43	157972	63.473	ug/l #	98
44) Trichloroethene	5.51	130	246724	64.436	ug/l	95
45) 1,2-Dichloropropane	6.24	63	195585	68.336	ug/l	98
46) Dibromomethane	6.09	93	124281	70.525	ug/l	93
47) Bromodichloromethane	6.39	83	275219	71.318	ug/l	100
48) Methyl methacrylate	6.72	41	100238	66.926	ug/l	95
49) 1,4-Dioxane	6.71	88	18380	1305.438	ug/l #	92
51) 4-Methyl-2-Pentanone	8.26	43	516852	290.637	ug/l	100
52) Toluene	7.63	92	456032	63.504	ug/l	95
53) t-1,3-Dichloropropene	8.28	75	215903	67.223	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	311735	72.869	ug/l	96
55) 1,1,2-Trichloroethane	8.50	97	136018	64.467	ug/l	94
56) Ethyl methacrylate	8.62	69	152824	65.057	ug/l	91
57) 1,3-Dichloropropane	8.86	76	229349	65.125	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.29	63	129895	320.492	ug/l	89
59) 2-Hexanone	9.49	43	373440	299.574	ug/l	99
60) Dibromochloromethane	8.72	129	201995	68.783	ug/l	100
61) 1,2-Dibromoethane	8.99	107	152673	66.714	ug/l	94
64) Tetrachloroethene	8.16	164	221453	66.747	ug/l	98
65) Chlorobenzene	9.81	112	555484	67.440	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.94	131	210264	65.146	ug/l	97
67) Ethyl Benzene	9.91	91	867723	63.349	ug/l	98
68) m/p-Xylenes	10.14	106	698891	133.319	ug/l	84
69) o-Xylene	10.71	106	365371	65.317	ug/l	94
70) Styrene	10.79	104	504469	63.749	ug/l	100
71) Bromoform	10.77	173	111462	63.597	ug/l	97
73) Isopropylbenzene	11.13	105	1042867	69.664	ug/l	98
74) N-amyl acetate	11.38	43	231405	64.402	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.70	83	170188	63.457	ug/l	95
76) 1,2,3-Trichloropropane	11.80	75	118109	64.774	ug/l	95
77) Bromobenzene	11.50	156	241514	65.305	ug/l	95
78) n-propylbenzene	11.59	91	1114873	64.899	ug/l	97
79) 2-Chlorotoluene	11.72	91	661302	68.737	ug/l	96
80) 1,3,5-Trimethylbenzene	11.83	105	817993	68.368	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	54742m	62.622	ug/l	
82) 4-Chlorotoluene	11.90	91	663855	66.480	ug/l	95
83) tert-Butylbenzene	12.13	119	881754	66.537	ug/l	98
84) 1,2,4-Trimethylbenzene	12.20	105	809257	68.081	ug/l	99
85) sec-Butylbenzene	12.31	105	1135249	66.245	ug/l	97
86) p-Isopropyltoluene	12.46	119	948854	65.974	ug/l	99
87) 1,3-Dichlorobenzene	12.48	146	446065	61.869	ug/l	100
88) 1,4-Dichlorobenzene	12.57	146	457468	65.977	ug/l	97
89) n-Butylbenzene	12.84	91	881331	64.896	ug/l	90
90) Hexachloroethane	12.91	117	246393	73.662	ug/l	80
91) 1,2-Dichlorobenzene	12.94	146	435755	63.543	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.64	75	30585	71.929	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	294694	59.953	ug/l	99
94) Hexachlorobutadiene	14.20	225	202347	66.655	ug/l	99
95) Naphthalene	14.46	128	588157	68.389	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	299547	66.395	ug/l	98

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

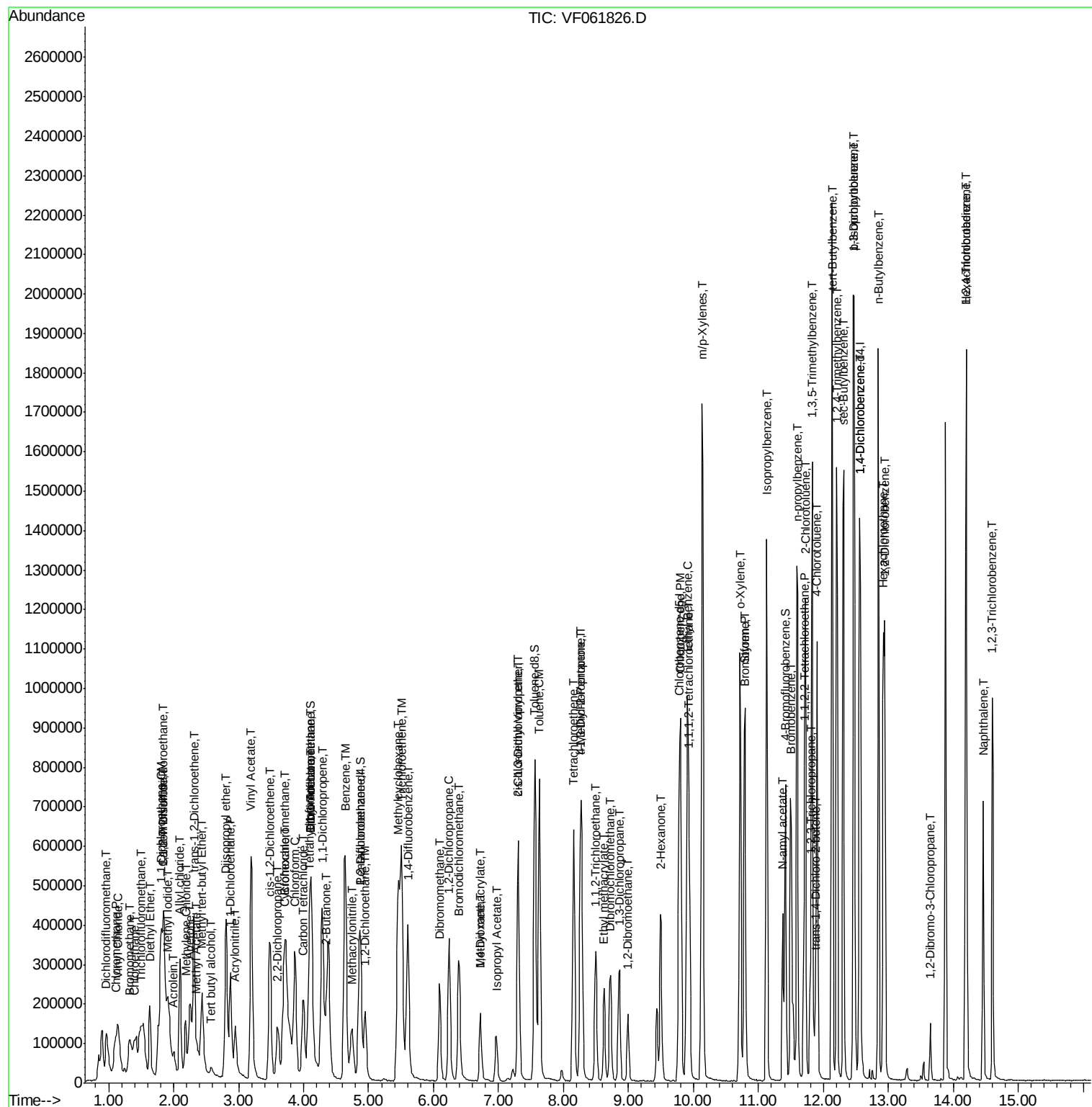
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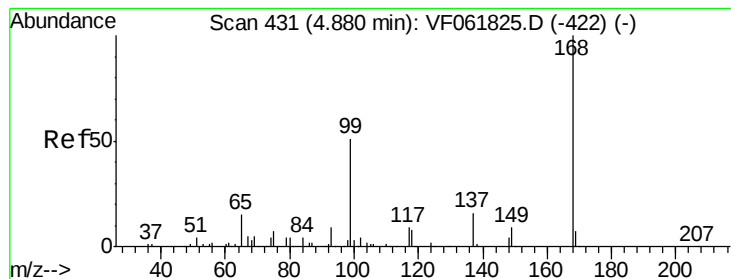
Instrument :
MSVOA_F
ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:168 Resp: 310164

Ion Ratio Lower Upper

168 100

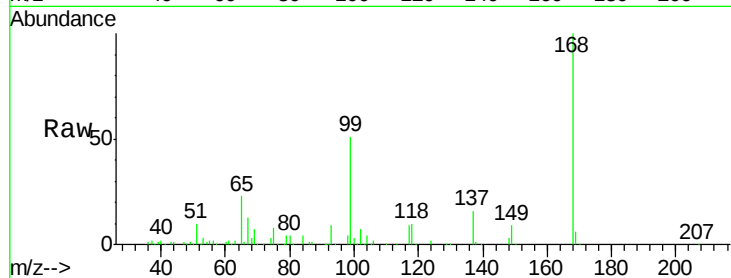
99 50.9 34.9 52.3

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

100000

80000

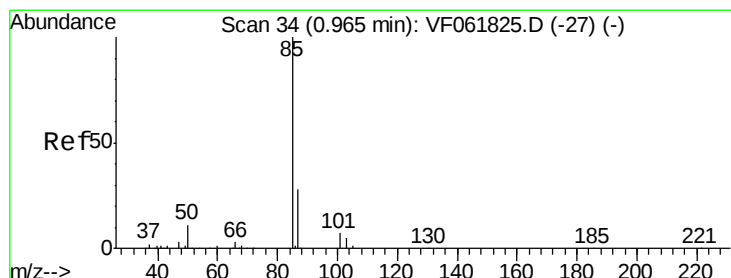
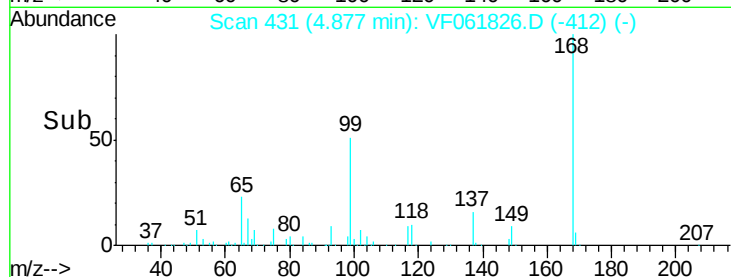
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 70.374 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061826.D

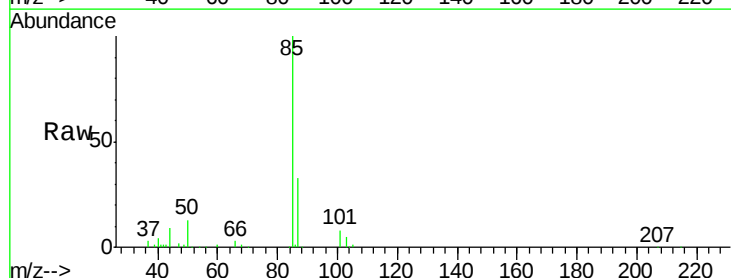
Acq: 4 Mar 2019 17:58

Tgt Ion: 85 Resp: 250665

Ion Ratio Lower Upper

85 100

87 32.5 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

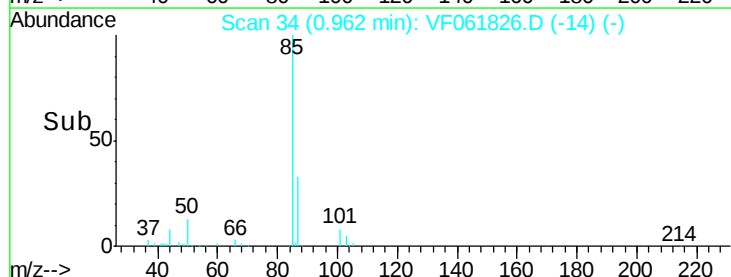
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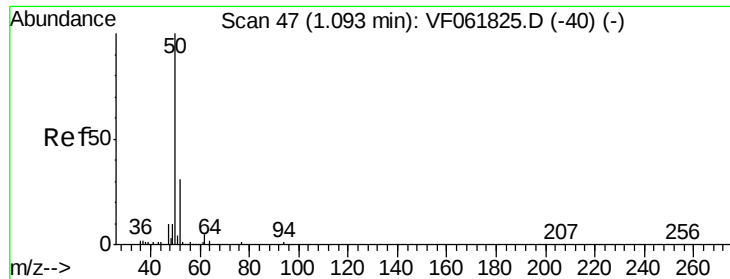
40000

20000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 64.996 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 50 Resp: 242903

Ion Ratio Lower Upper

50 100

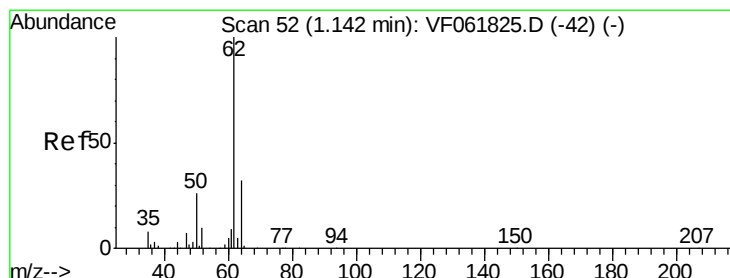
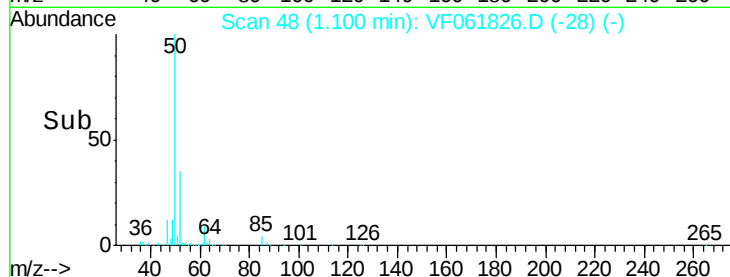
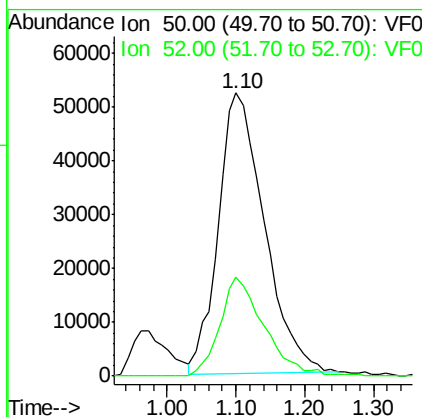
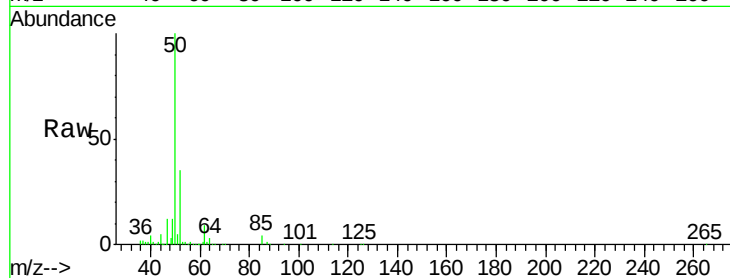
52 34.9 26.2 39.4

Manual Integrations

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MMDadoda

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#4

Vinyl Chloride

Concen: 67.874 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061826.D

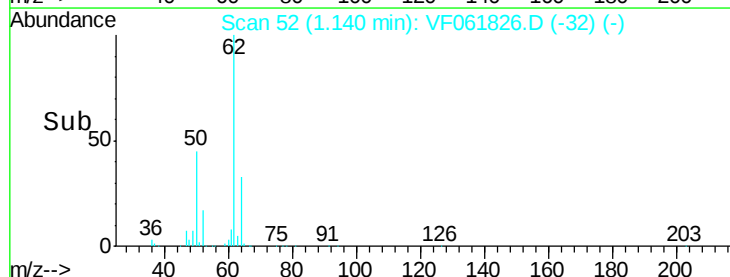
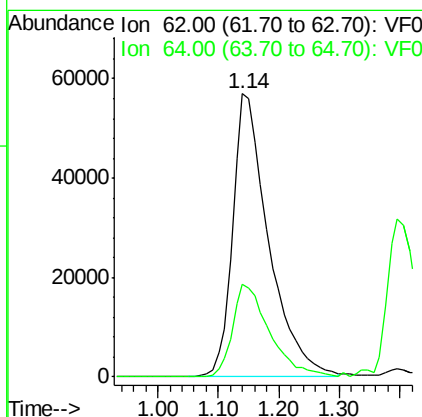
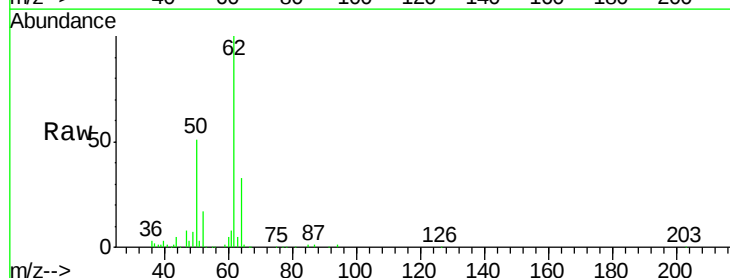
Acq: 4 Mar 2019 17:58

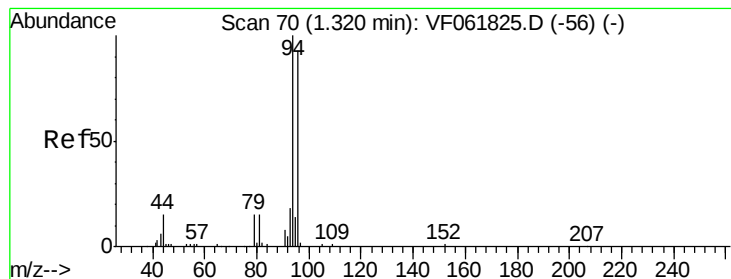
Tgt Ion: 62 Resp: 235811

Ion Ratio Lower Upper

62 100

64 32.8 27.5 41.3





#5

Bromomethane

Concen: 67.627 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 161704

Ion Ratio Lower Upper

94 100

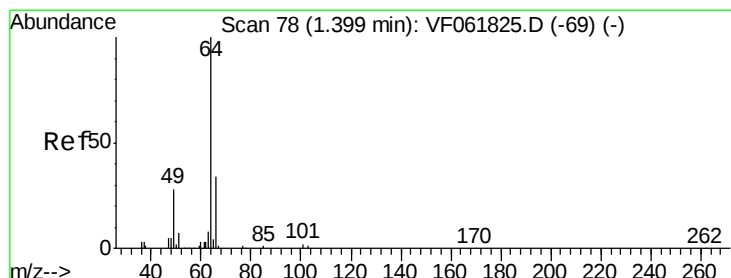
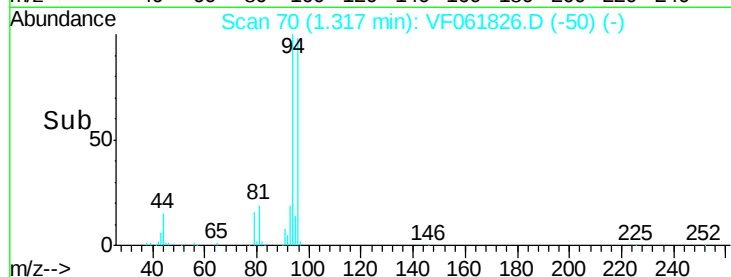
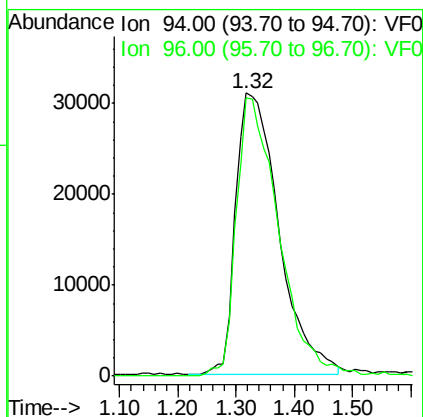
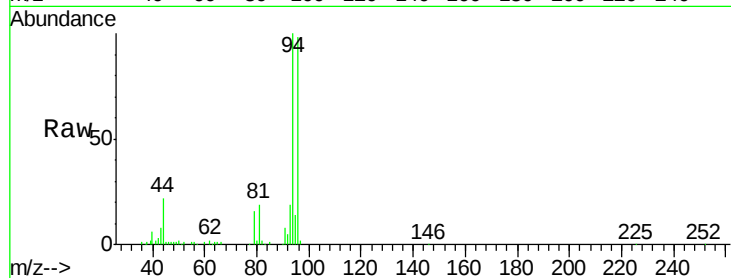
96 98.3 74.6 112.0

Manual Integrations

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#6

Chloroethane

Concen: 63.767 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

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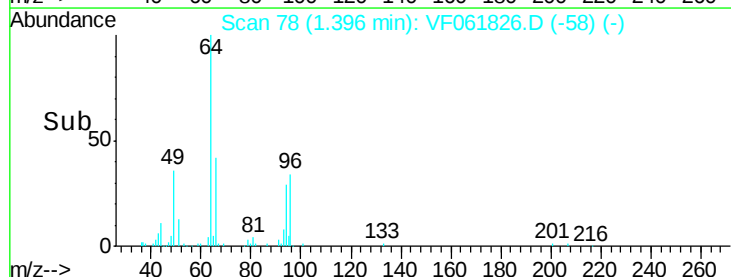
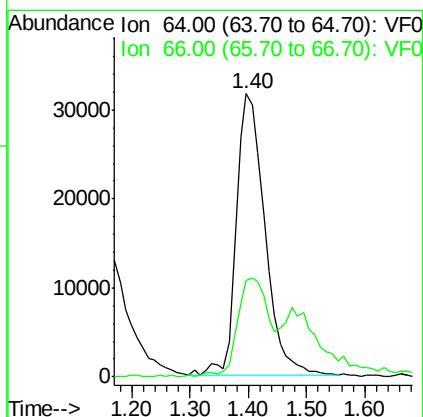
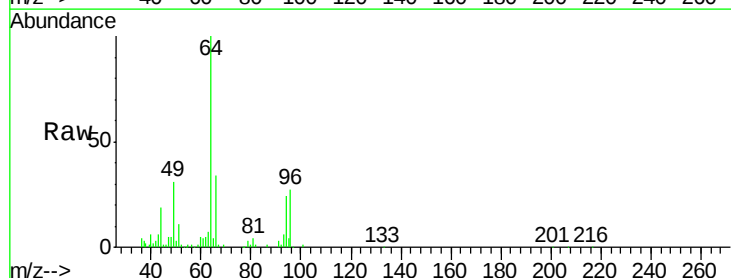
Acq: 4 Mar 2019 17:58

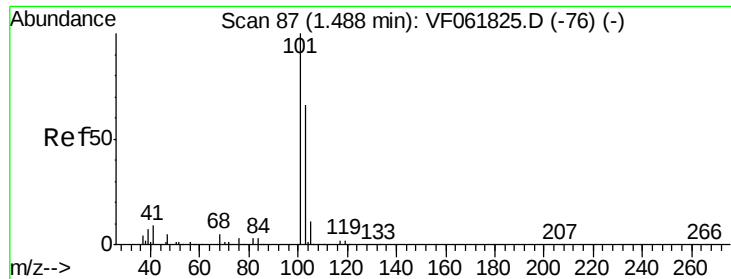
Tgt Ion: 64 Resp: 109178

Ion Ratio Lower Upper

64 100

66 34.2 27.9 41.9





#7

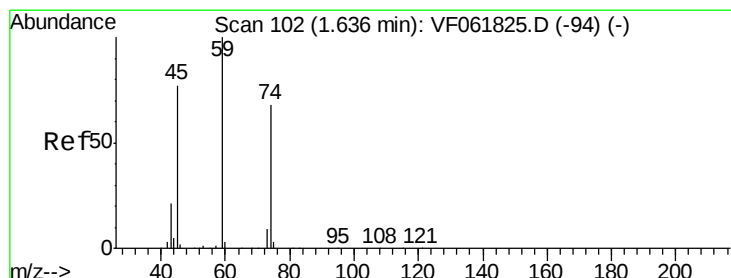
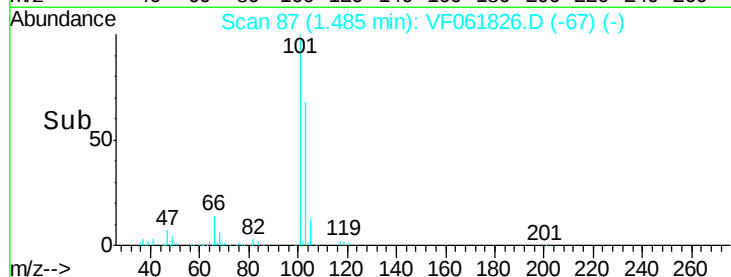
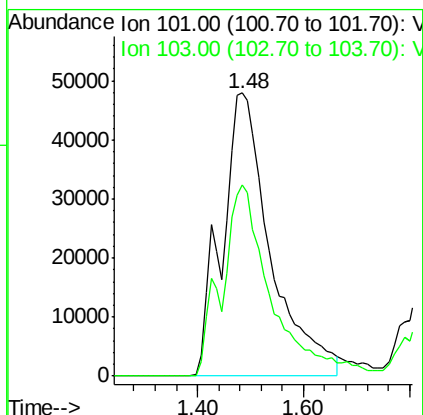
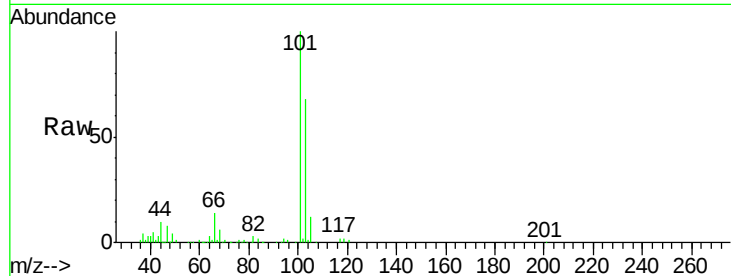
Trichlorofluoromethane
Concen: 72.930 ug/l m
RT: 1.48 min Scan# 87
Delta R.T. -0.00 min
Lab File: VF061826.D
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Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	67.5	49.3	73.9	

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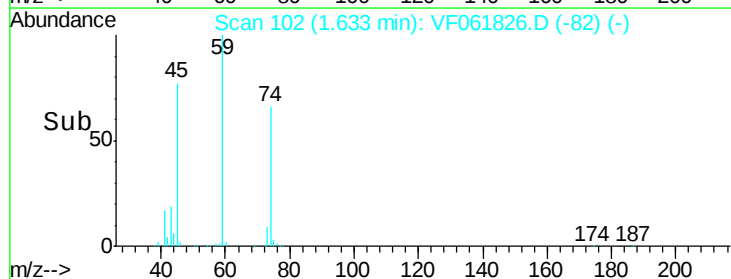
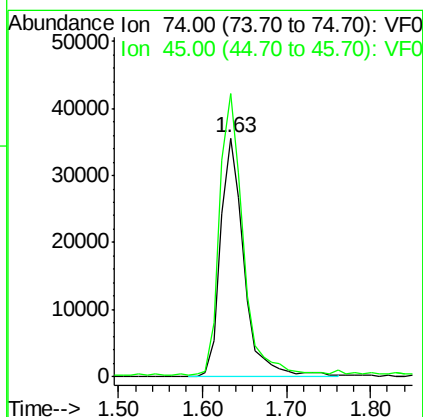
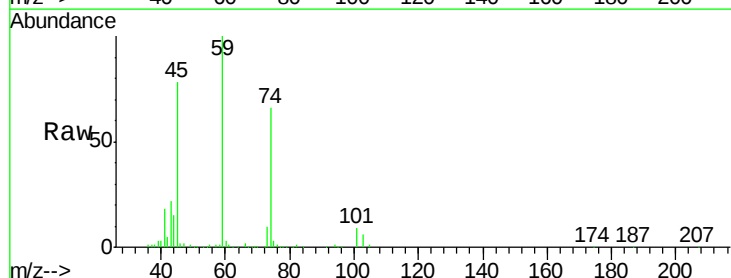
MMDadoda
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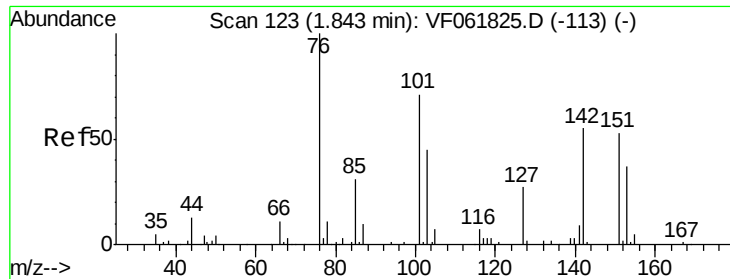


#8

Diethyl Ether
Concen: 65.583 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.00 min
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Tgt Ion	Ion	Ratio	Lower	Upper
74	100			
45	118.5	60.8	182.3	





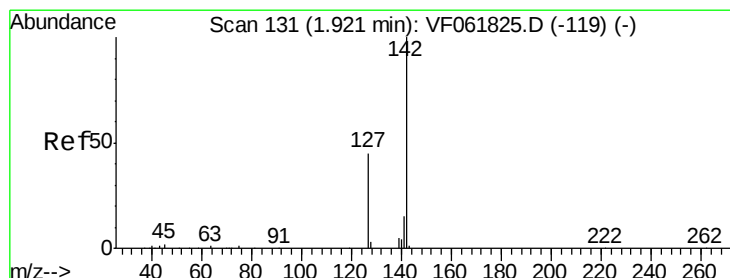
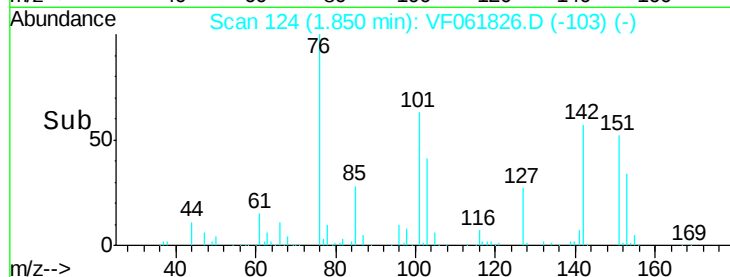
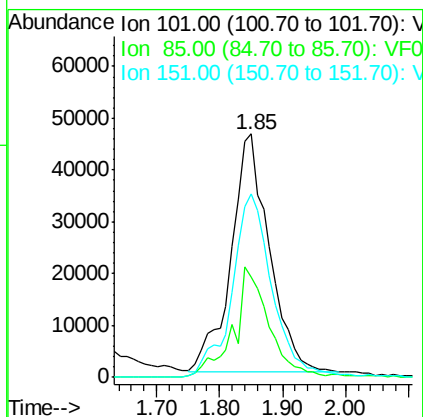
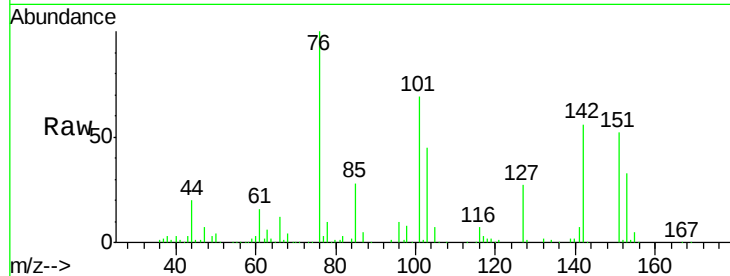
#9
1,1,2-Trichlorotrifluoroethane
Concen: 63.943 ug/l
RT: 1.85 min Scan# 124
Delta R.T. 0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
101	100	193296		
85	41.0	29.8	44.6	
151	75.4	56.3	84.5	

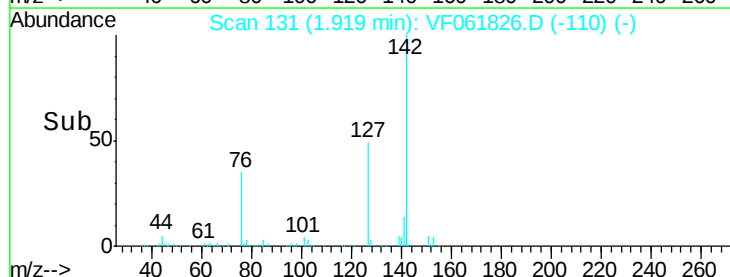
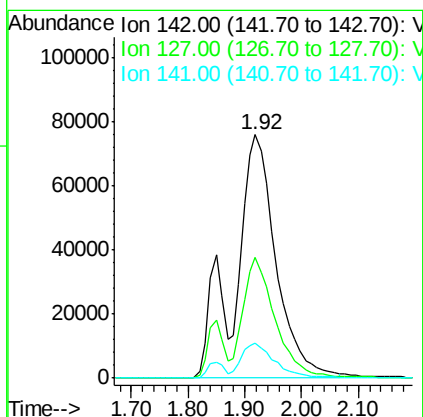
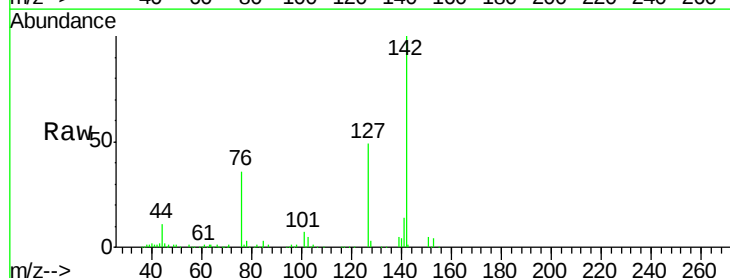
Manual Integrations
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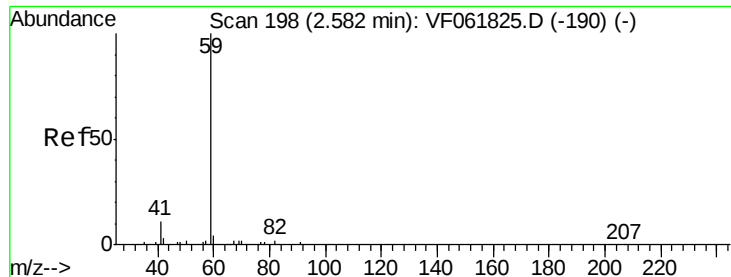
MMDadoda
3/5/2019 10:47:31 AM



#10
Methyl Iodide
Concen: 66.788 ug/l m
RT: 1.92 min Scan# 131
Delta R.T. 0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	385668		
127	49.5	36.6	55.0	
141	14.2	11.0	16.6	





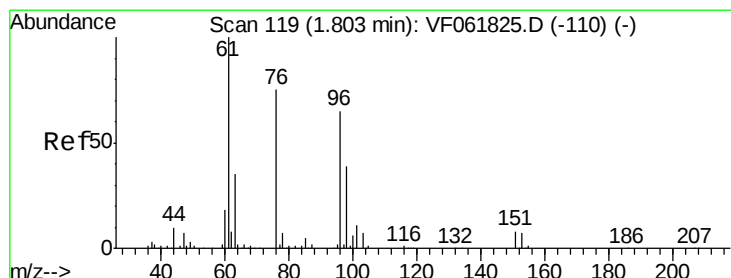
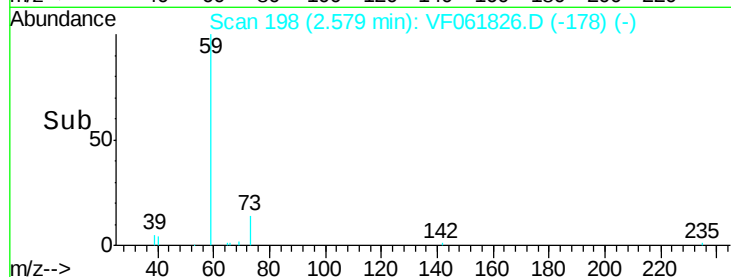
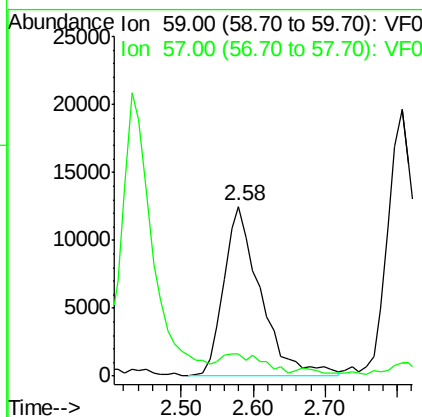
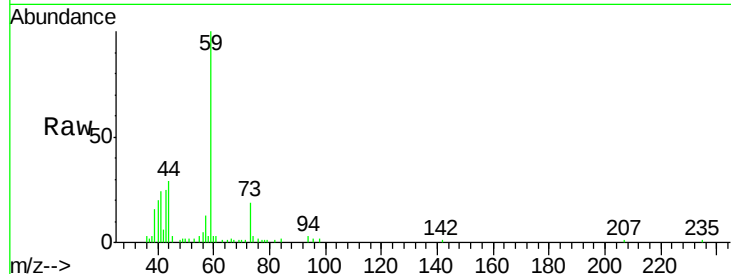
#11
Tert butyl alcohol
Concen: 337.622 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	59	Resp	44442
Ion Ratio	100	Lower	Upper
57	13.1	12.5	18.7

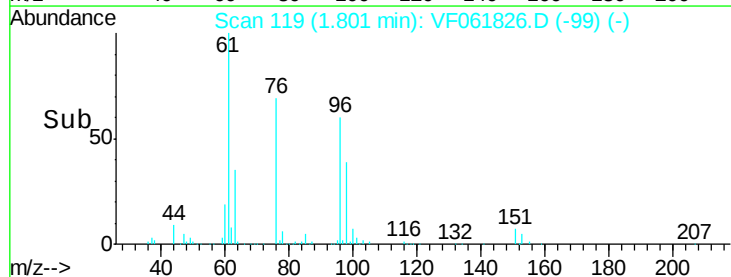
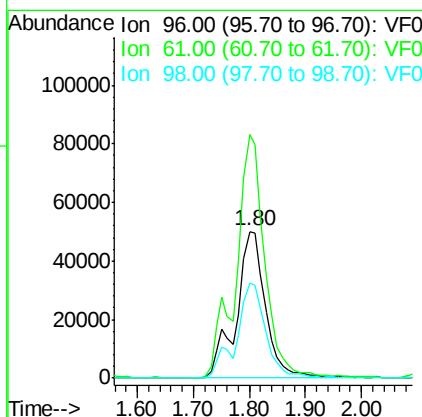
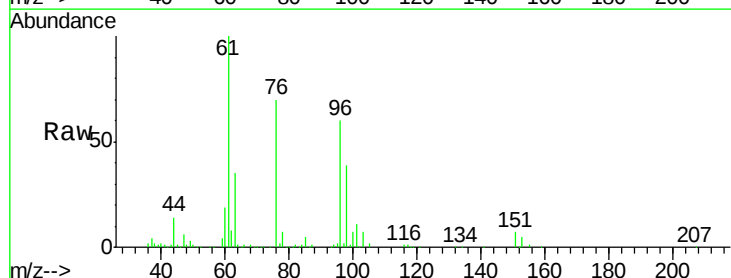
Manual Integrations
APPROVED

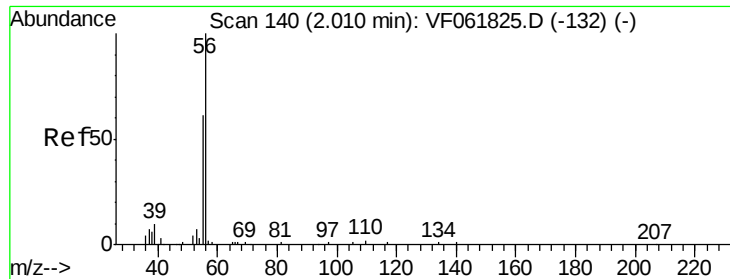
MMDadoda
3/5/2019 10:47:31 AM



#12
1,1-Dichloroethene
Concen: 68.144 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	96	Resp	181112
Ion Ratio	100	Lower	Upper
61	166.0	122.6	184.0
98	64.6	47.2	70.8





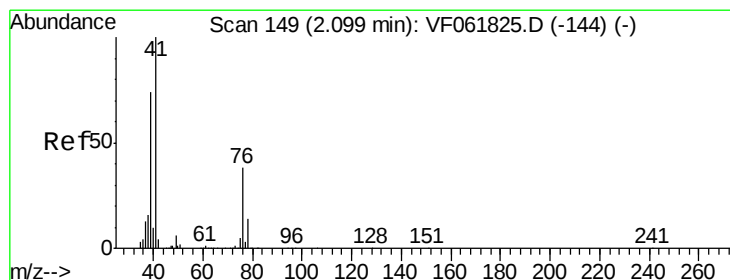
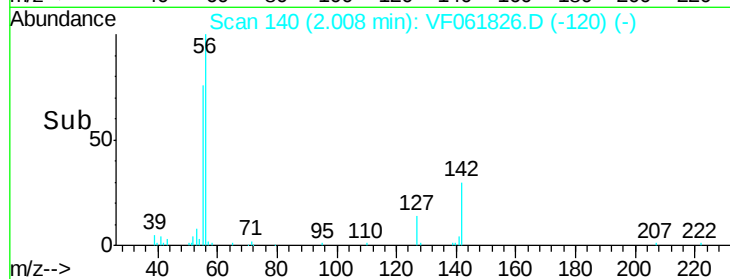
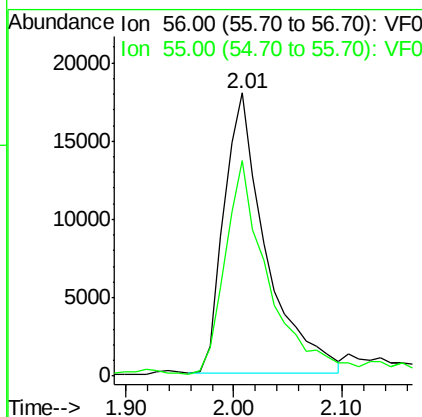
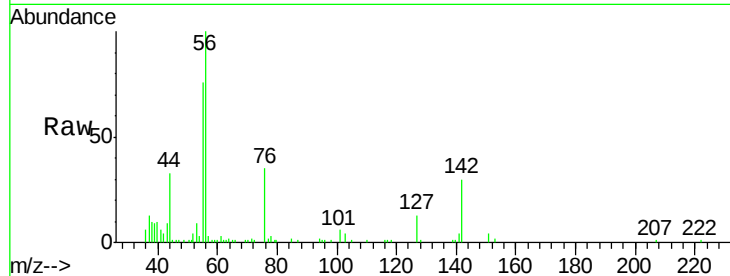
#13
Acrolein
Concen: 292.689 ug/l
RT: 2.01 min Scan# 140
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	56	Resp	48422
Ion Ratio	100	Lower	Upper
55	76.0	55.0	82.6

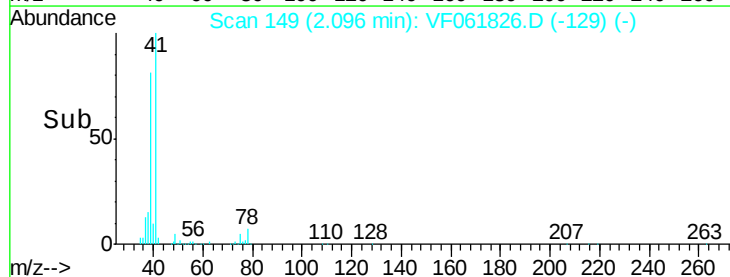
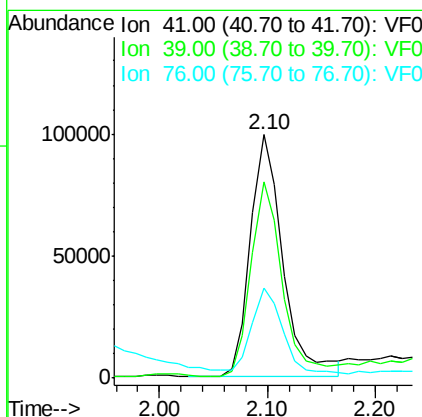
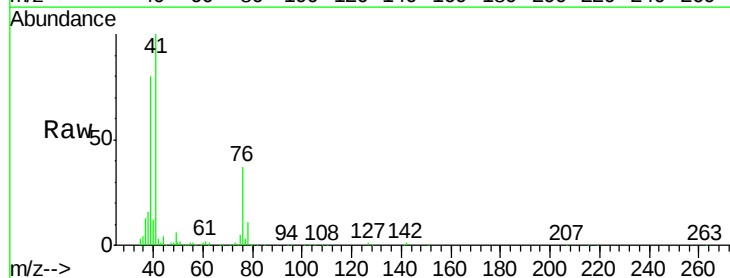
Manual Integrations
APPROVED

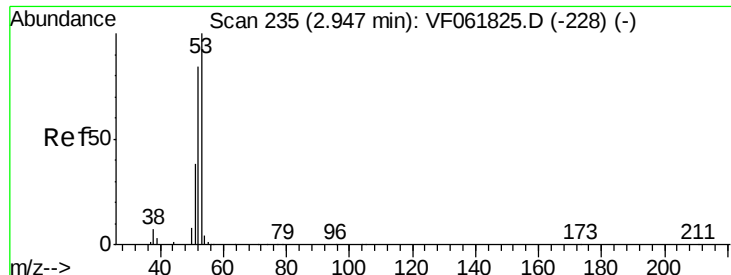
MMDadoda
3/5/2019 10:47:31 AM



#14
Allyl chloride
Concen: 64.422 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	41	Resp	210106
Ion Ratio	100	Lower	Upper
39	80.5	61.6	92.4
76	37.2	30.3	45.5





#15

Acrylonitrile

Concen: 304.313 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

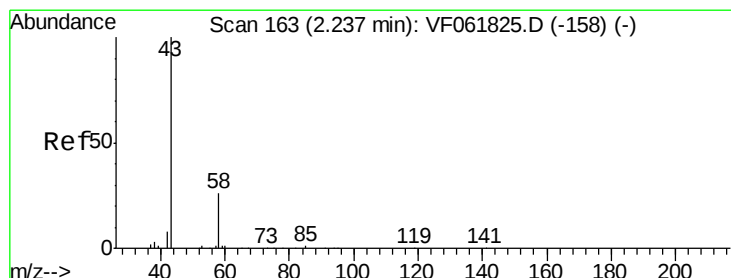
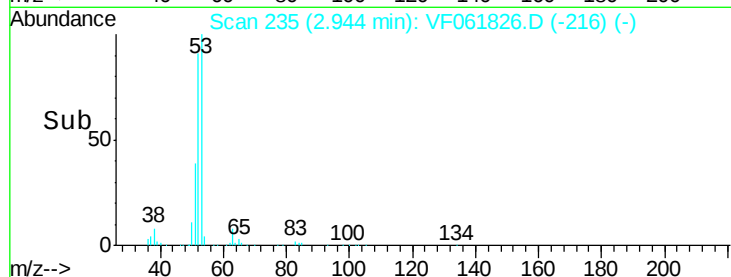
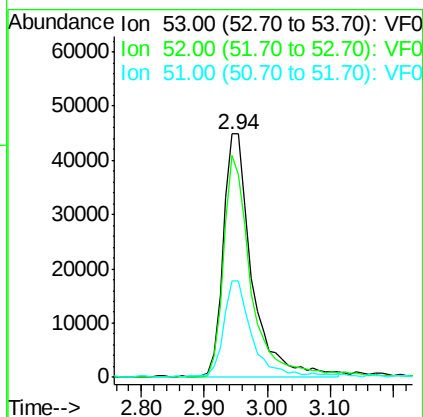
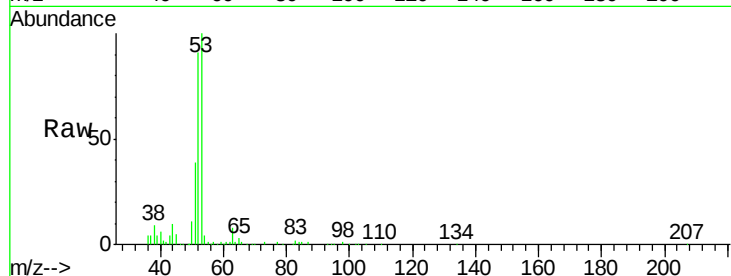
ClientSampleId :

VSTDIC075

Tot Ion:	53	Resp:	142085
Ion	Ratio	Lower	Upper
53	100		
52	91.0	64.6	97.0
51	39.4	29.8	44.8

Manual Integrations
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3/5/2019 10:47:31 AM



#16

Acetone

Concen: 318.901 ug/l

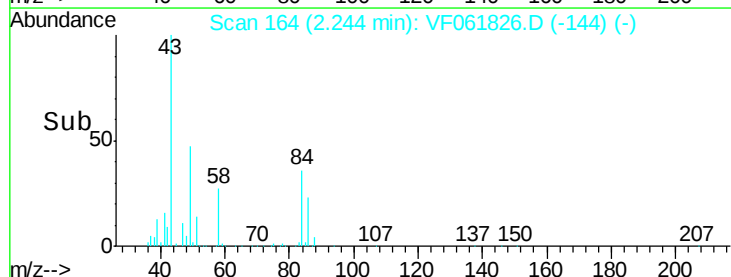
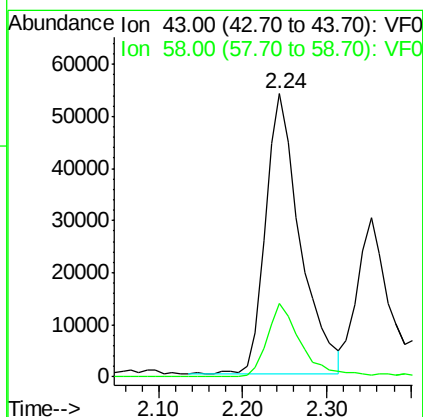
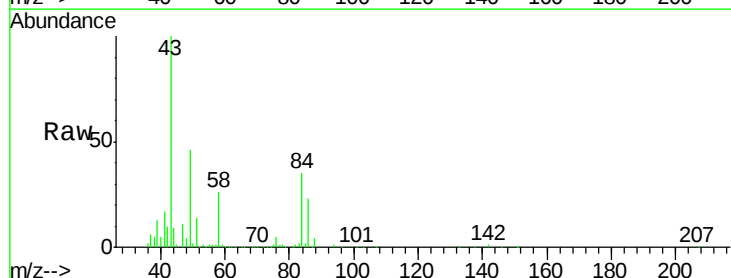
RT: 2.24 min Scan# 164

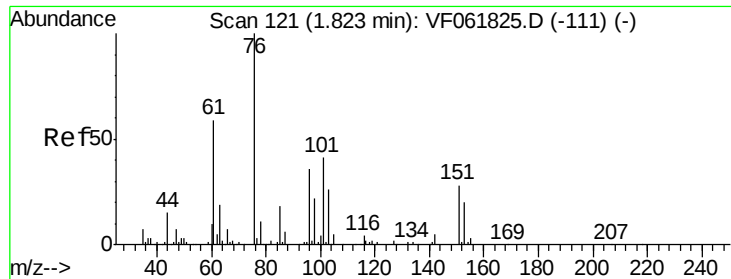
Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Tgt Ion:	43	Resp:	155624
Ion	Ratio	Lower	Upper
43	100		
58	26.2	22.9	34.3





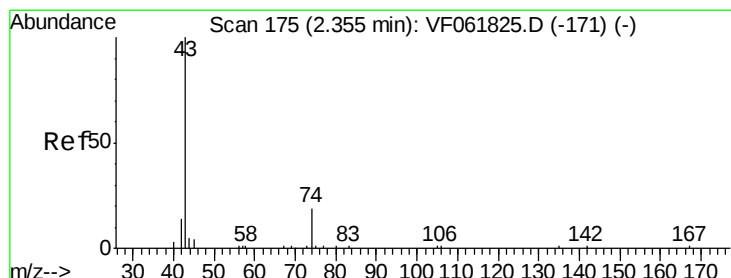
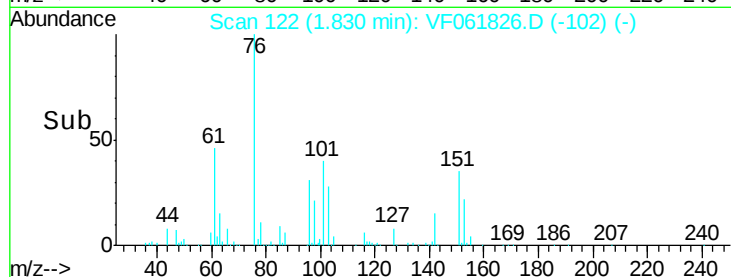
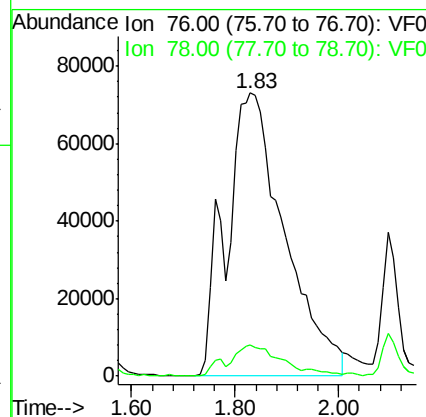
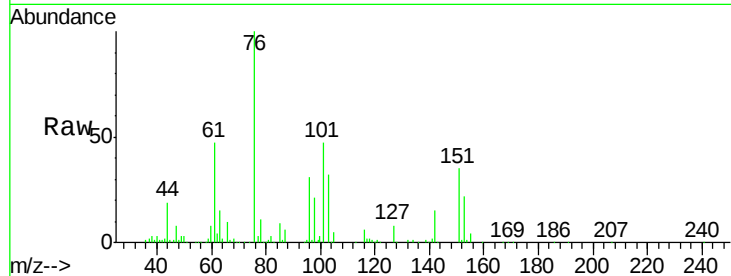
#17
Carbon Disulfide
Concen: 69.702 ug/l m
RT: 1.83 min Scan# 122
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 76 Resp: 582312
Ion Ratio Lower Upper
76 100
78 11.0 7.9 11.9

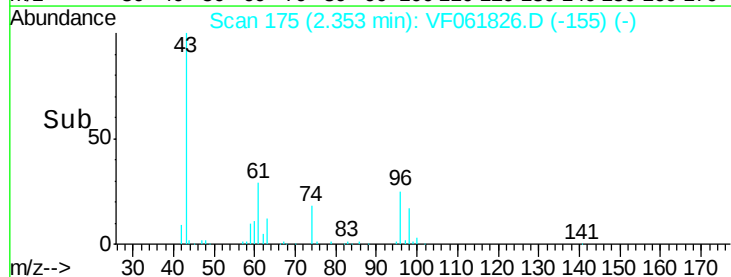
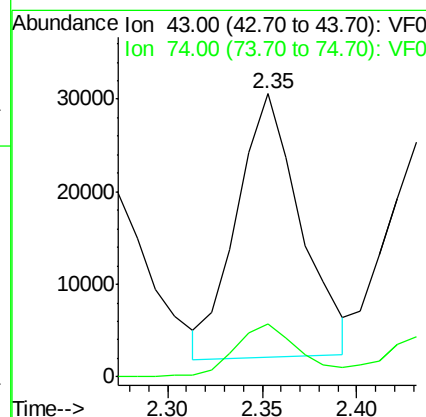
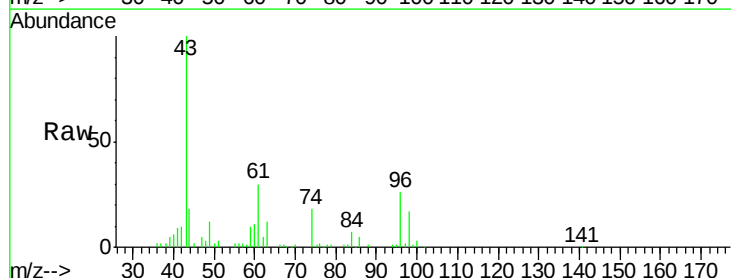
Manual Integrations
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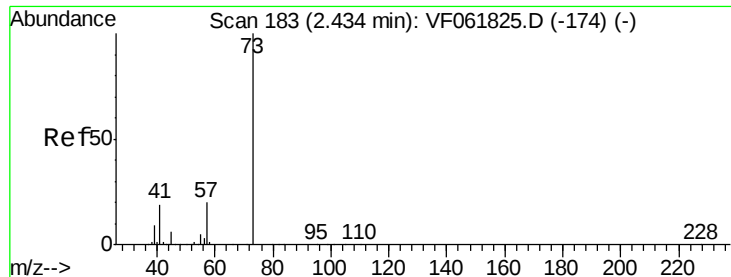
MMDadoda
3/5/2019 10:47:31 AM



#18
Methyl Acetate
Concen: 60.772 ug/l
RT: 2.35 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion: 43 Resp: 66810
Ion Ratio Lower Upper
43 100
74 18.5 14.6 21.8





#19

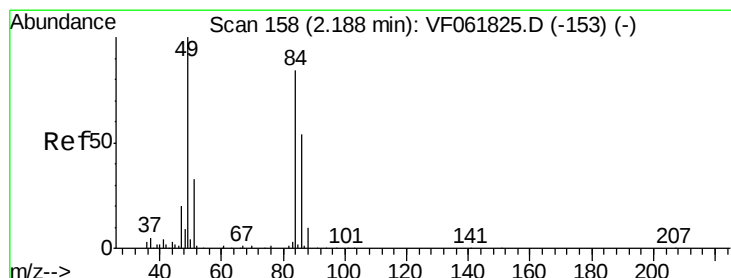
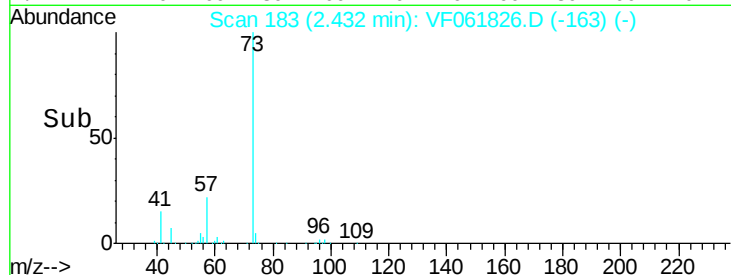
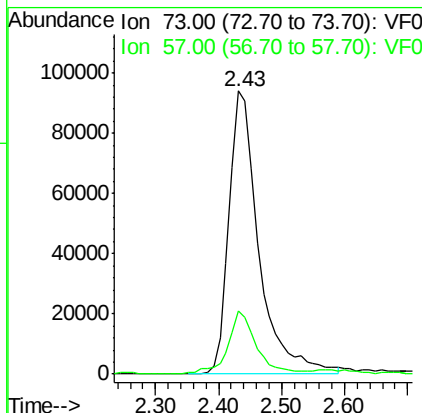
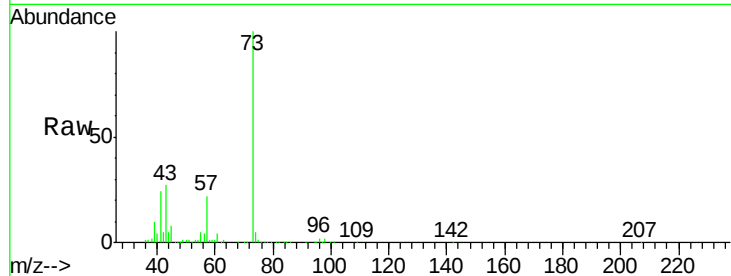
Methyl tert-butyl Ether
 Concen: 68.163 ug/l
 RT: 2.43 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	73	Resp	309615
Ion Ratio	Lower	Upper	
73	100		
57	22.2	15.8	23.8

Manual Integrations
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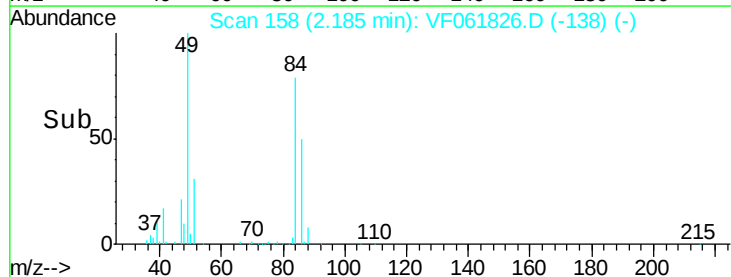
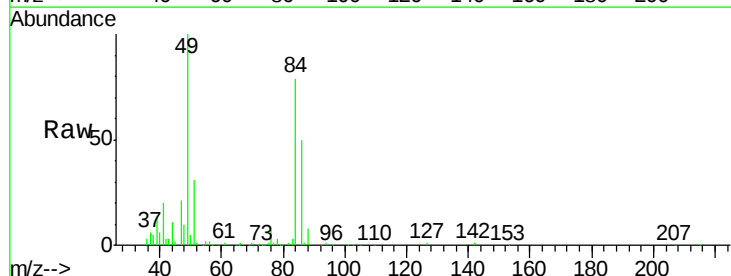
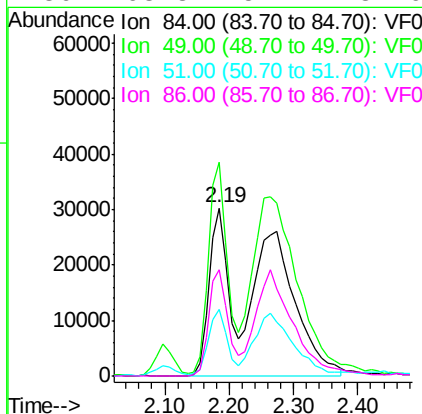
MMDadoda
 3/5/2019 10:47:31 AM

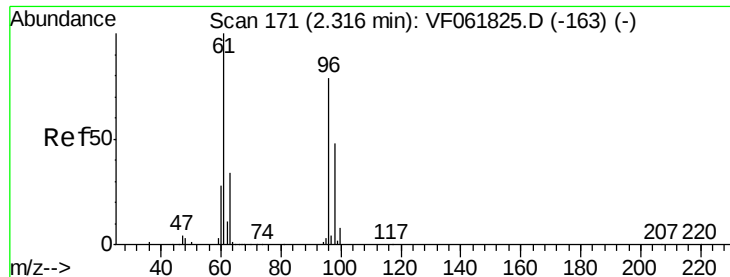


#20

Methylene Chloride
 Concen: 60.783 ug/l m
 RT: 2.19 min Scan# 158
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Tgt Ion	84	Resp	179184
Ion Ratio	Lower	Upper	
84	100		
49	127.2	101.8	152.8
51	39.9	31.1	46.7
86	63.3	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 53.600 ug/l

RT: 2.31 min Scan# 171

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

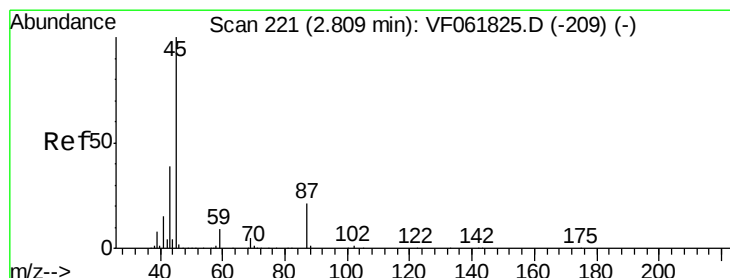
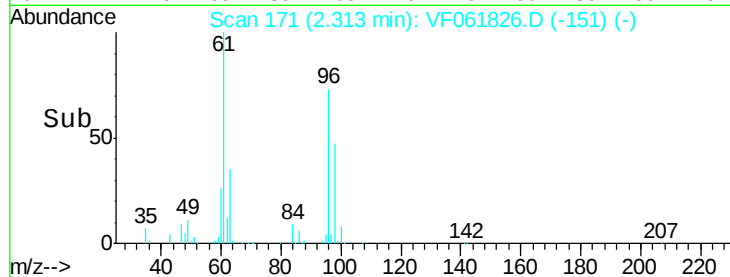
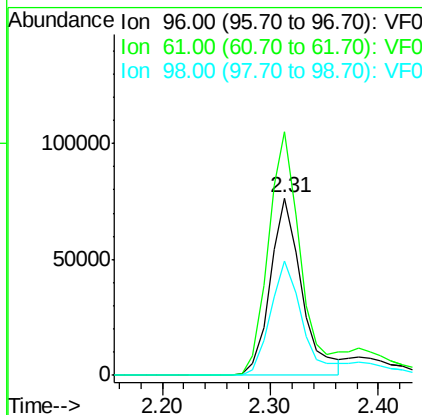
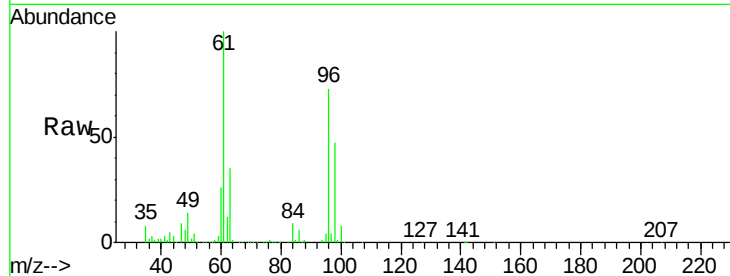
ClientSampleId :

VSTDIC075

Tot Ion:	96	Resp:	154864
Ion	Ratio	Lower	Upper
96	100		
61	137.0	108.2	162.4
98	64.2	52.2	78.2

Manual Integrations
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MMDadoda
3/5/2019 10:47:31 AM



#22

Diisopropyl ether

Concen: 68.979 ug/l

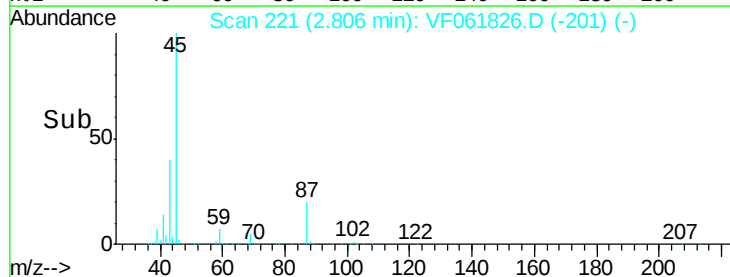
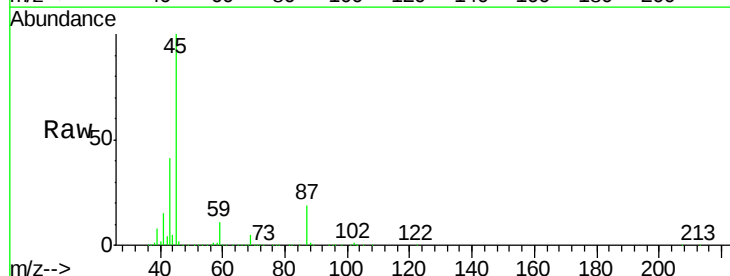
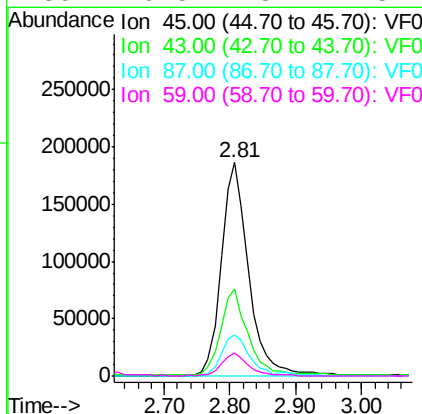
RT: 2.81 min Scan# 221

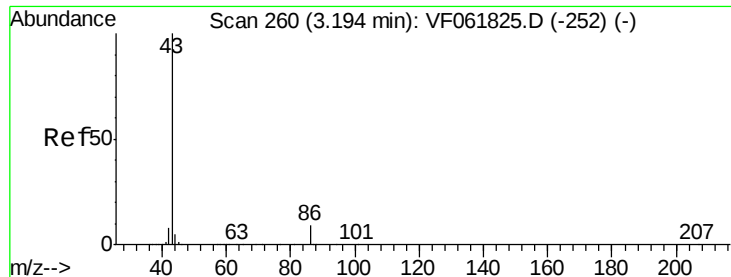
Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Tgt Ion:	45	Resp:	540022
Ion	Ratio	Lower	Upper
45	100		
43	40.7	31.4	47.2
87	19.5	16.3	24.5
59	10.5	8.7	13.1





#23

Vinyl Acetate

Concen: 327.385 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 1251853

Ion Ratio Lower Upper

43 100

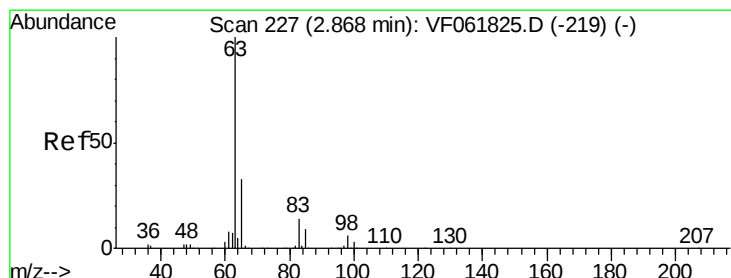
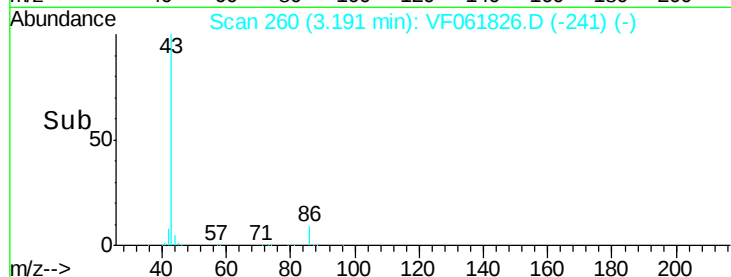
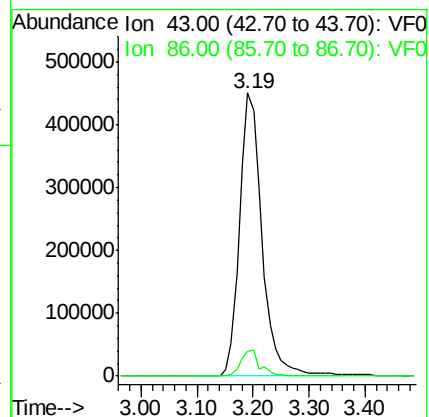
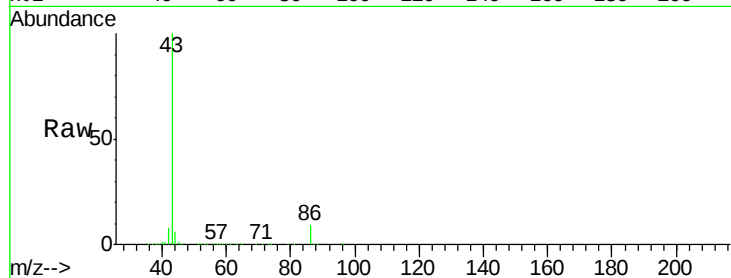
86 8.8 7.5 11.3

Manual Integrations

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MMDadoda

3/5/2019 10:47:31 AM



#24

1,1-Dichloroethane

Concen: 68.009 ug/l

RT: 2.88 min Scan# 228

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

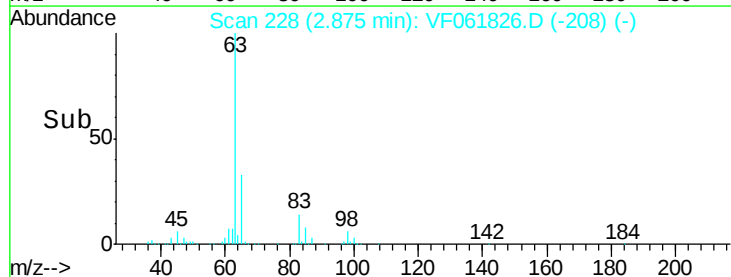
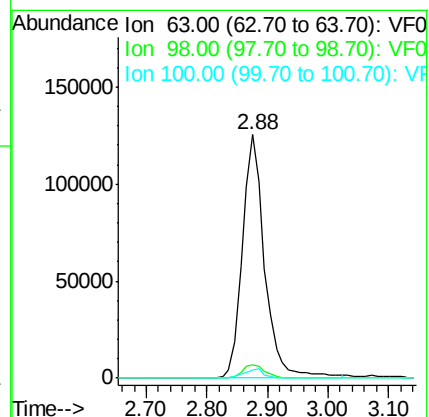
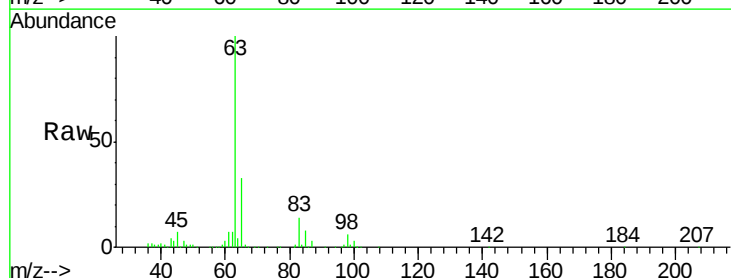
Tgt Ion: 63 Resp: 322206

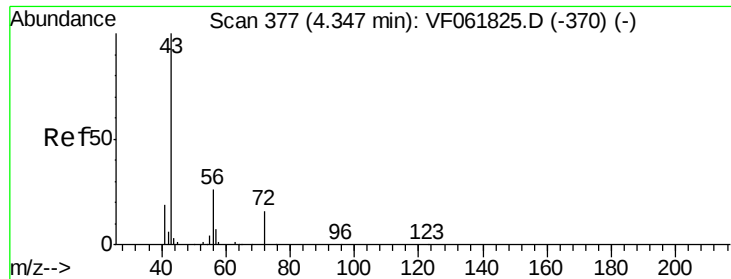
Ion Ratio Lower Upper

63 100

98 5.6 2.8 8.3

100 3.2 1.8 5.4





#25

2-Butanone

Concen: 314.851 ug/l

RT: 4.34 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 335615

Ion Ratio Lower Upper

43 100

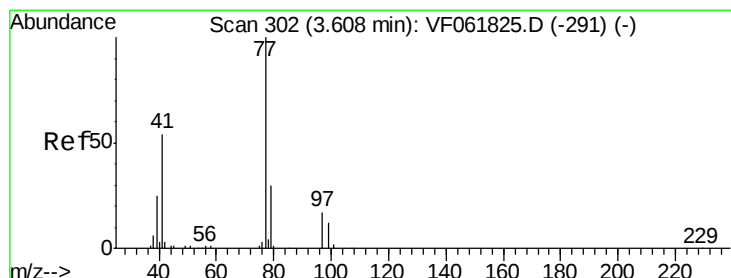
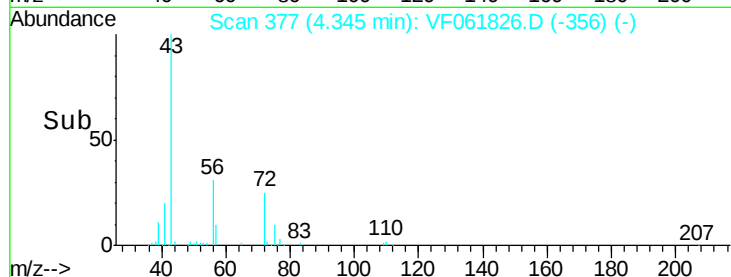
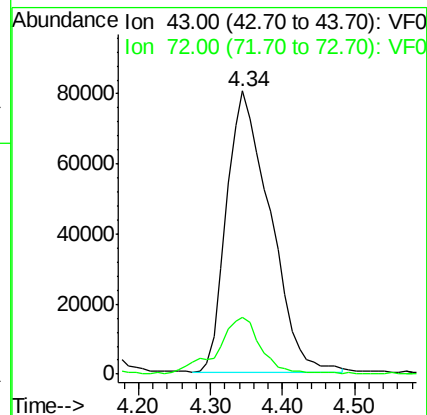
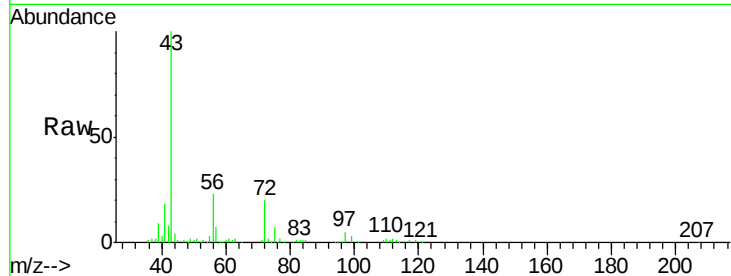
72 20.1 17.1 25.7

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 67.778 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061826.D

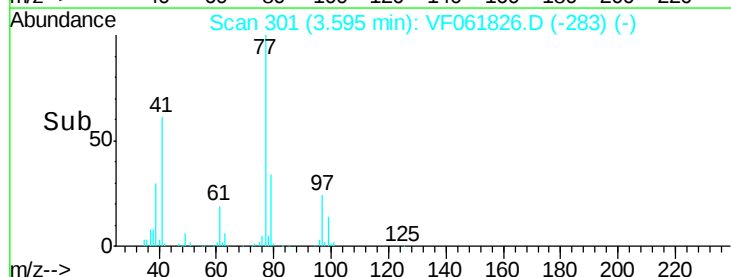
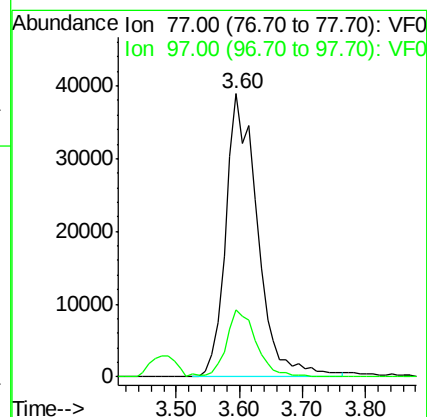
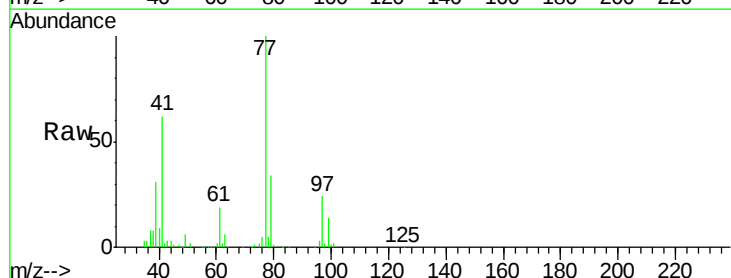
Acq: 4 Mar 2019 17:58

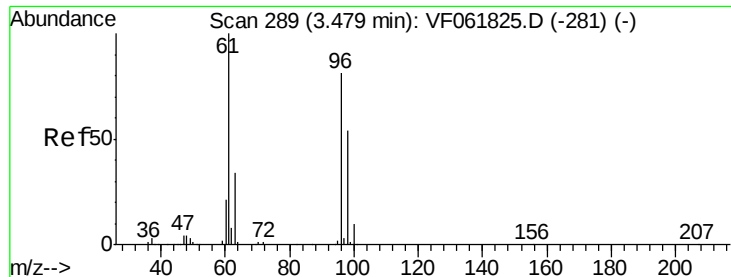
Tgt Ion: 77 Resp: 136016

Ion Ratio Lower Upper

77 100

97 23.7 11.7 35.0





#27

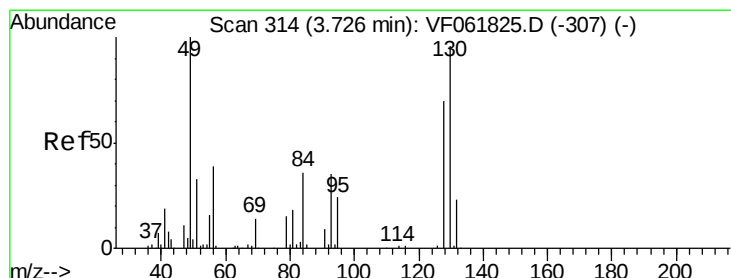
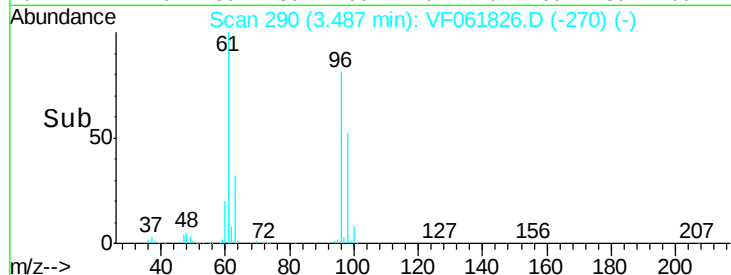
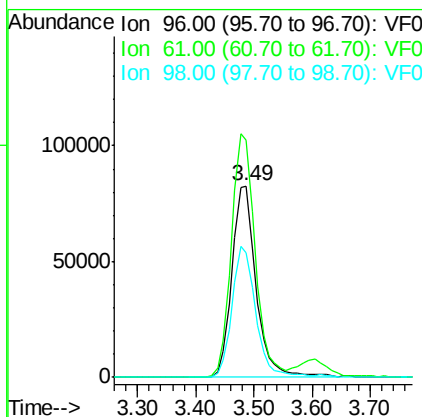
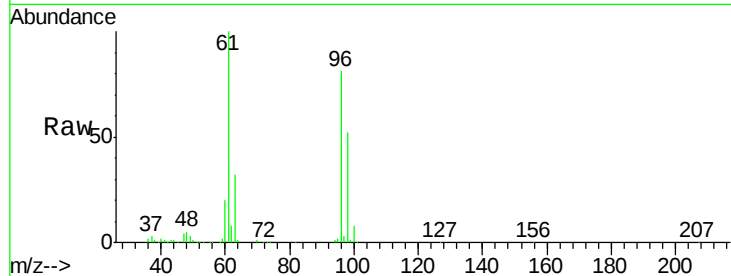
cis-1,2-Dichloroethene
 Concen: 63.145 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
96	100	239465		
61	123.8		0.0	241.6
98	65.0		0.0	130.2

Manual Integrations
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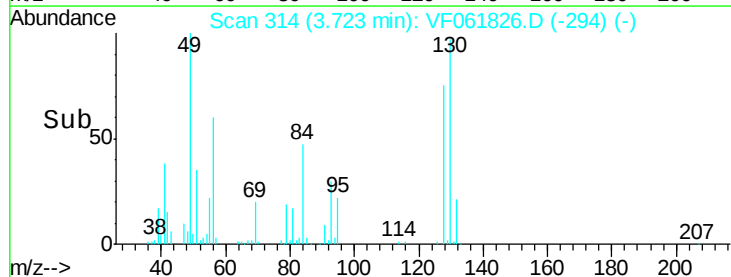
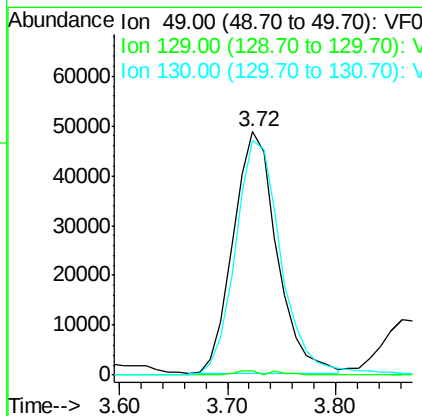
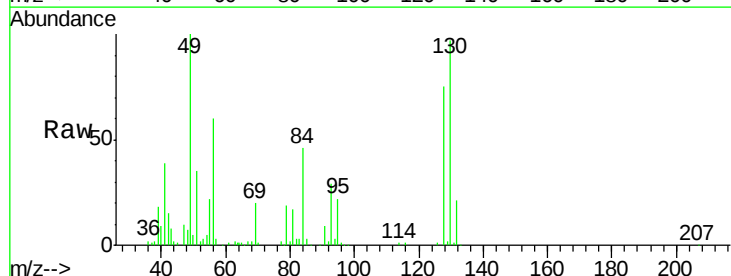
MMDadoda
 3/5/2019 10:47:31 AM

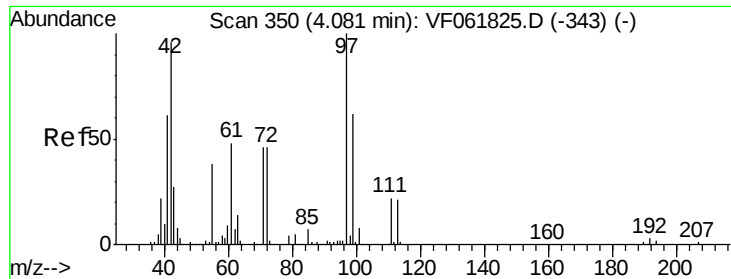


#28

Bromochloromethane
 Concen: 60.051 ug/l
 RT: 3.72 min Scan# 314
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	136509		
129	2.0		0.0	3.4
130	96.5		77.7	116.5





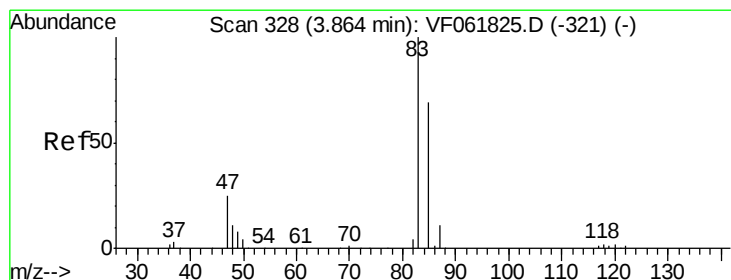
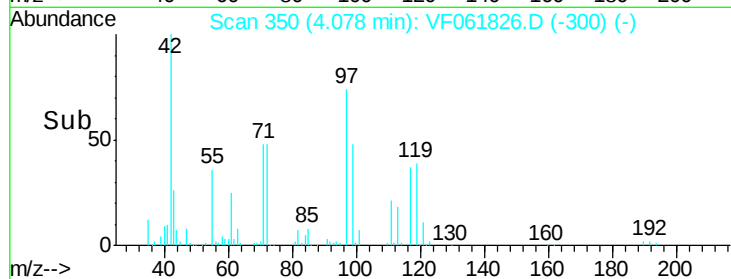
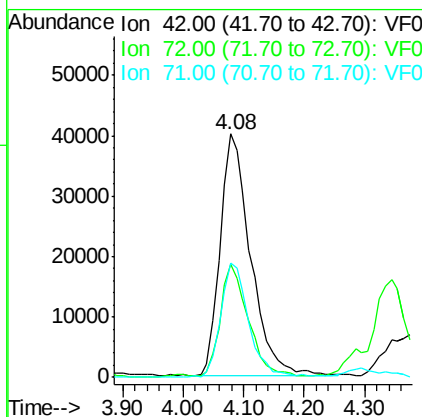
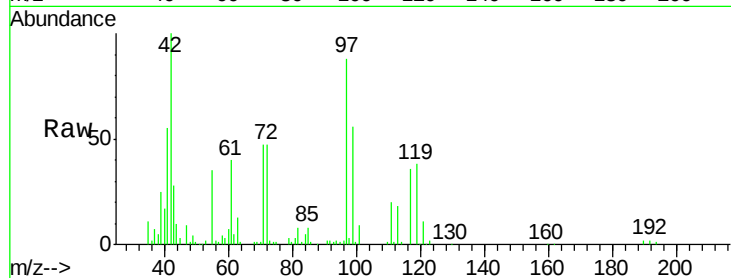
#29
Tetrahydrofuran
Concen: 288.139 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
42	100	139598		
72	43.6		35.2	52.8
71	43.9		32.9	49.3

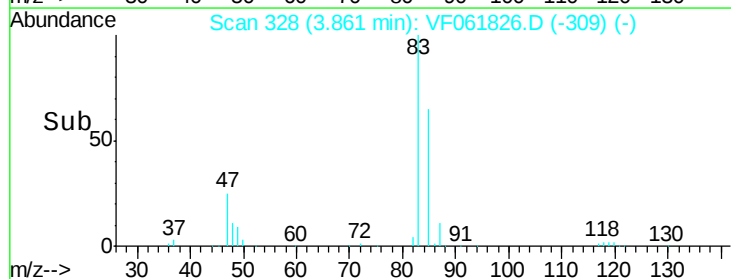
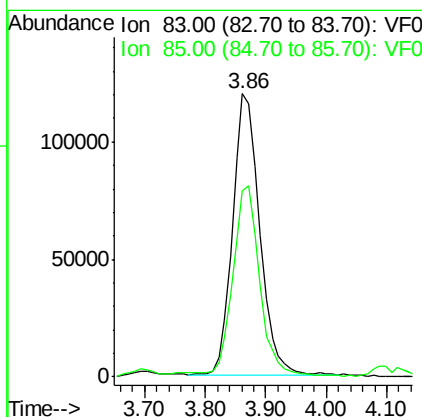
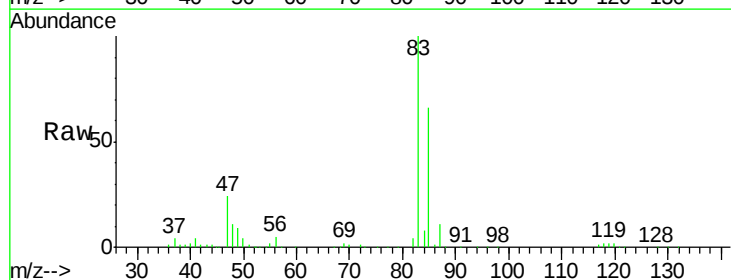
Manual Integrations
APPROVED

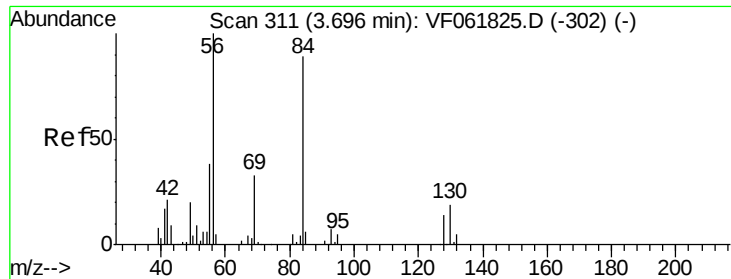
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#30
Chloroform
Concen: 69.204 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	372859		
85	65.9		51.1	76.7





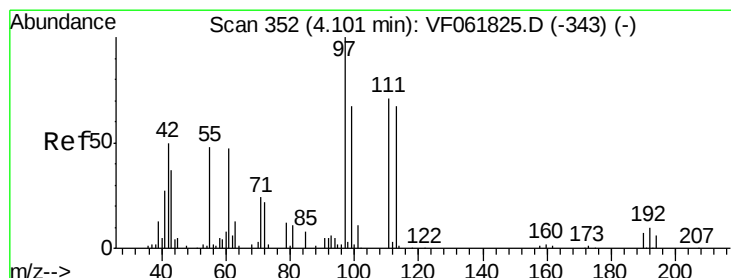
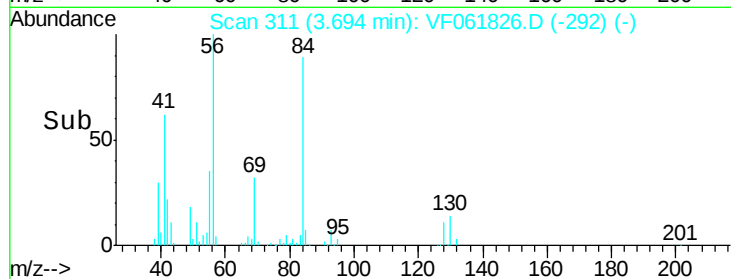
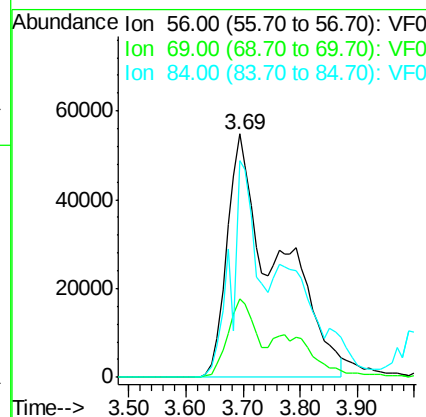
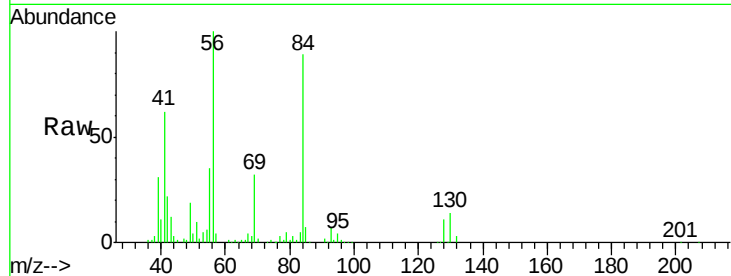
#31
Cyclohexane
Concen: 65.227 ug/l m
RT: 3.69 min Scan# 311
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.3	23.8	35.8
84	89.1	68.6	103.0

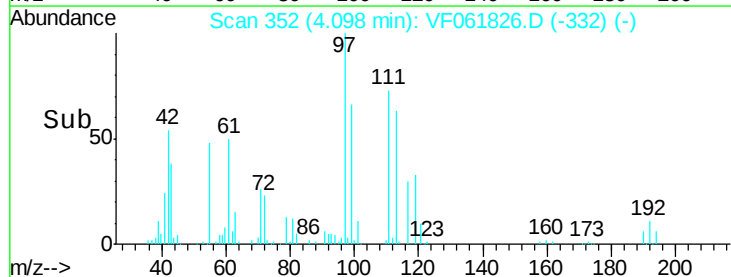
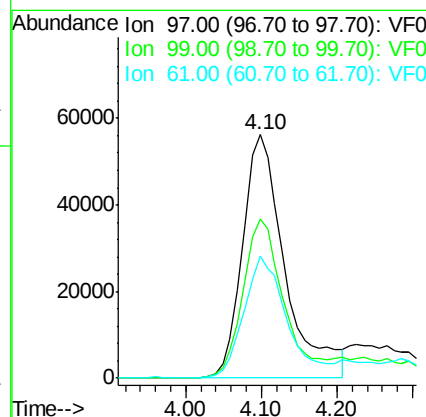
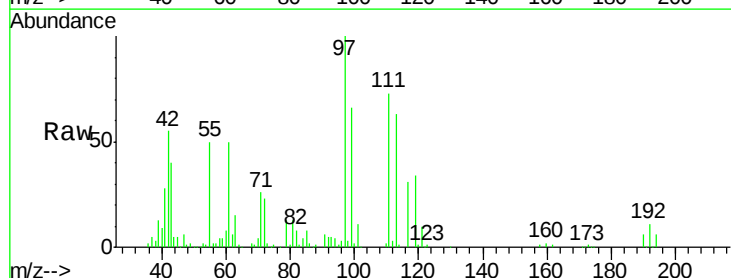
Manual Integrations
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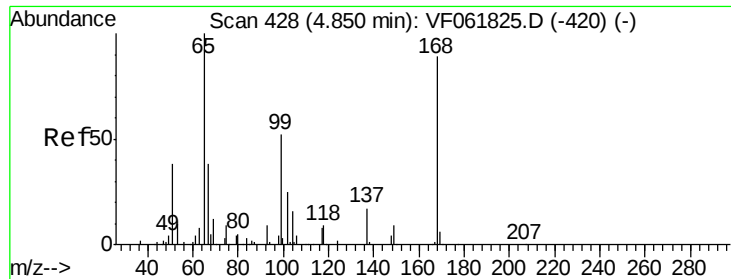
MMDadoda
3/5/2019 10:47:31 AM



#32
1,1,1-Trichloroethane
Concen: 62.170 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.6	52.2	78.2
61	50.2	39.2	58.8





#33

1,2-Dichloroethane-d4

Concen: 73.677 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 65 Resp: 167577

Ion Ratio Lower Upper

65 100

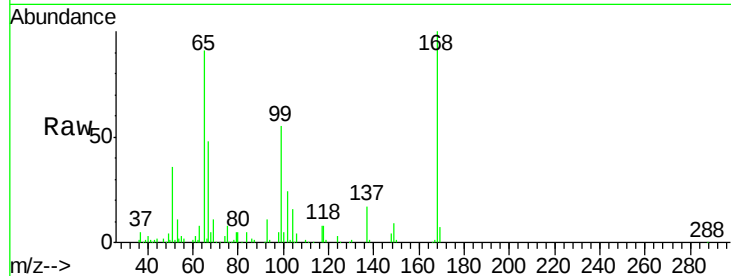
67 52.9 0.0 104.0

Manual Integrations

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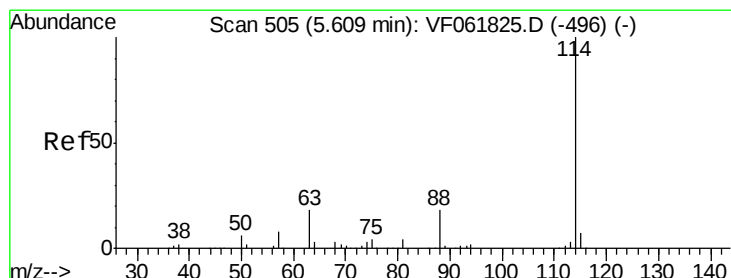
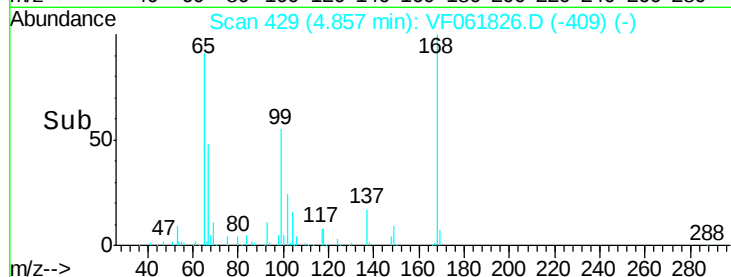
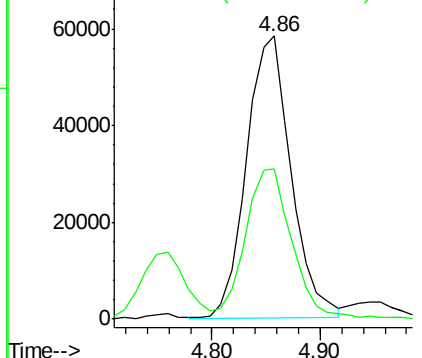
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

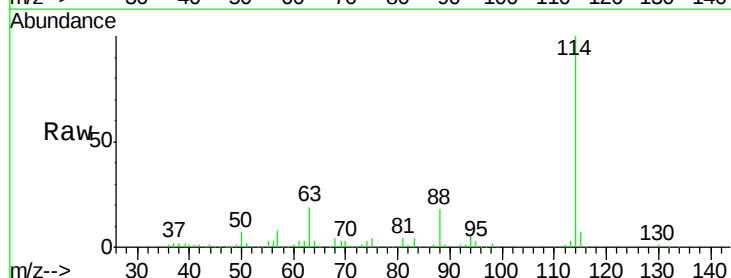
Tgt Ion: 114 Resp: 456968

Ion Ratio Lower Upper

114 100

63 18.6 0.0 36.6

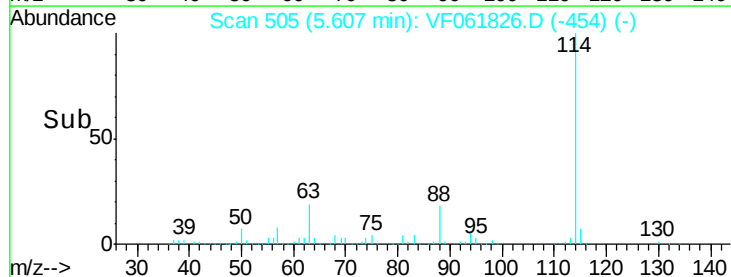
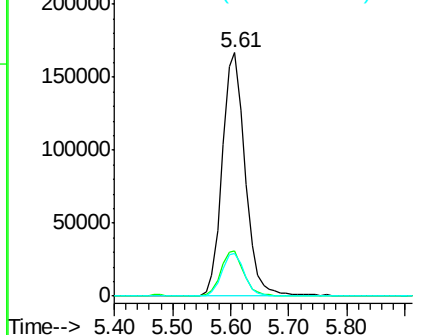
88 17.7 0.0 34.4

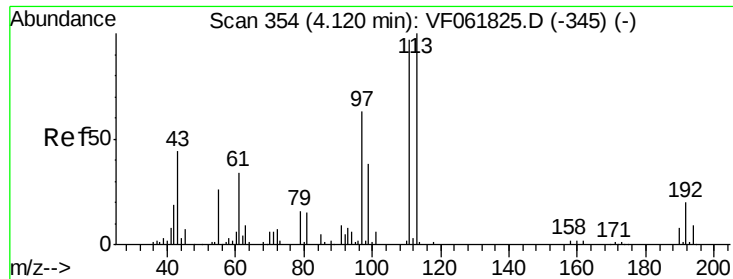


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 68.540 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

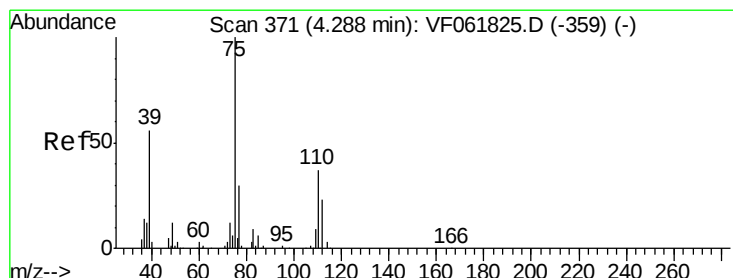
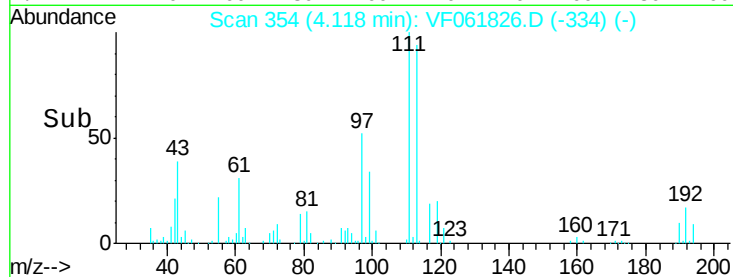
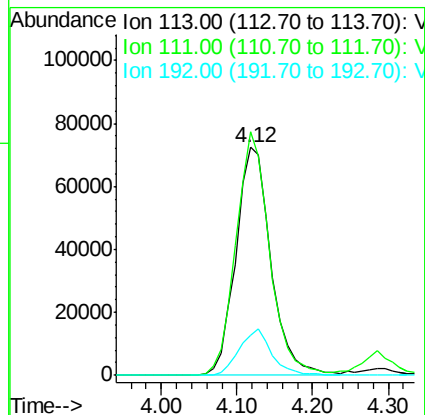
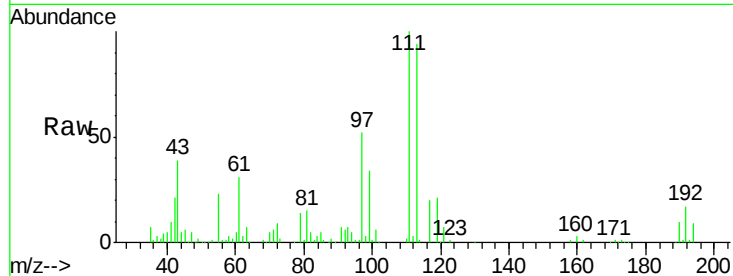
ClientSampleId :

VSTDIC075

Tot Ion	Ratio	Lower	Upper
113	100		
111	106.8	78.8	118.2
192	17.8	13.4	20.0

Manual Integrations
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3/5/2019 10:47:31 AM



#36

1,1-Dichloropropene

Concen: 69.863 ug/l

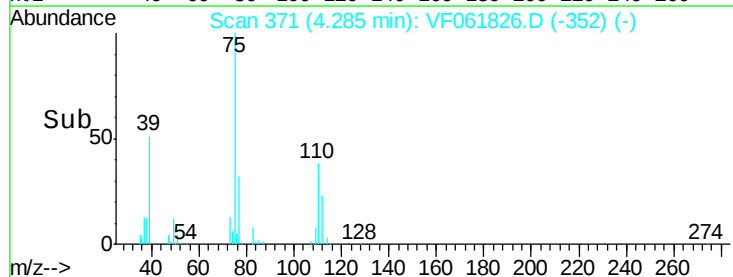
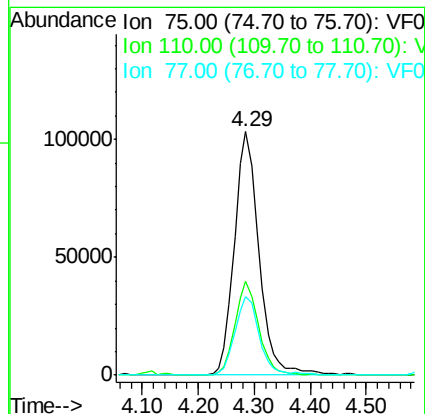
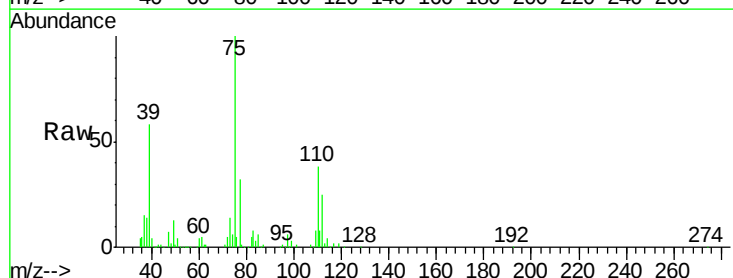
RT: 4.29 min Scan# 371

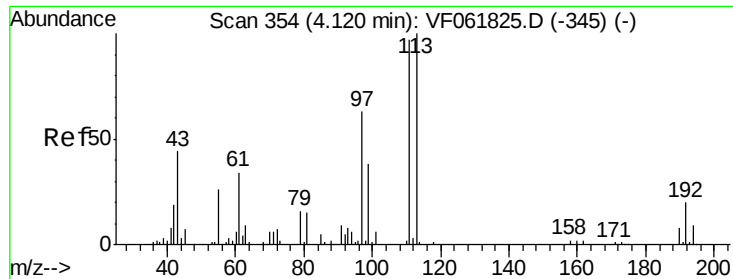
Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
75	100		
110	38.5	20.5	61.6
77	32.4	27.0	40.4





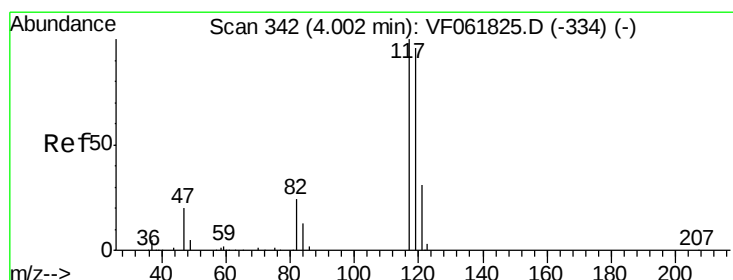
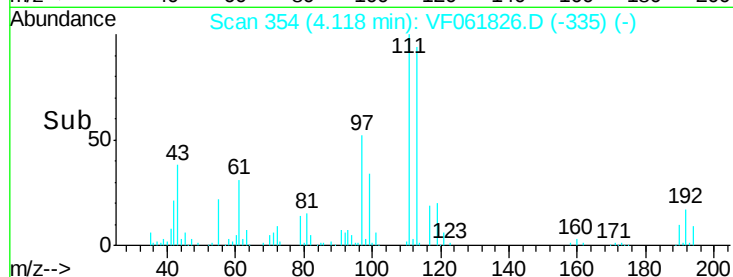
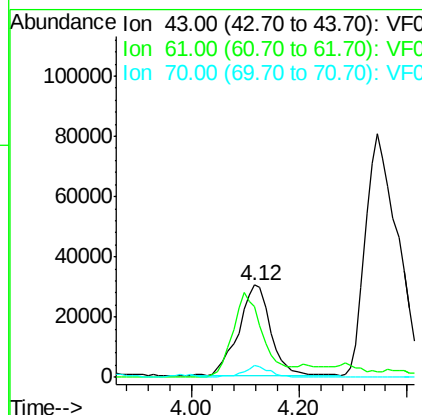
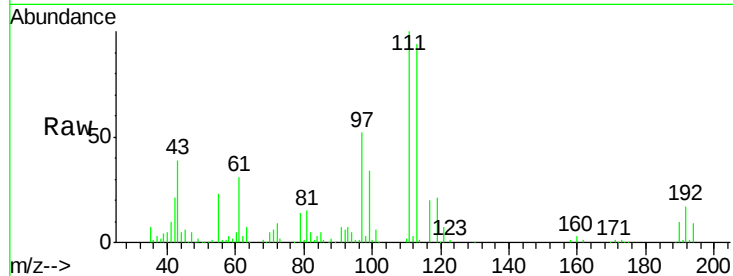
#37
Ethyl Acetate
Concen: 59.418 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
61	77.5	45.7	68.5#
70	12.4	8.5	12.7

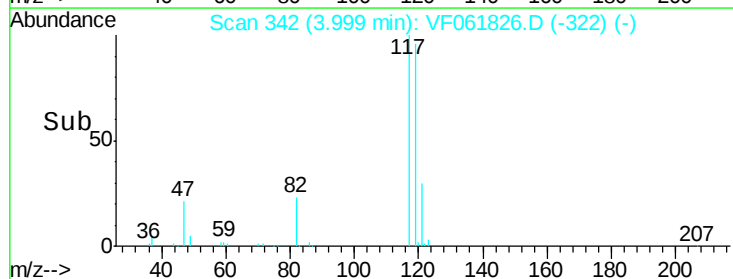
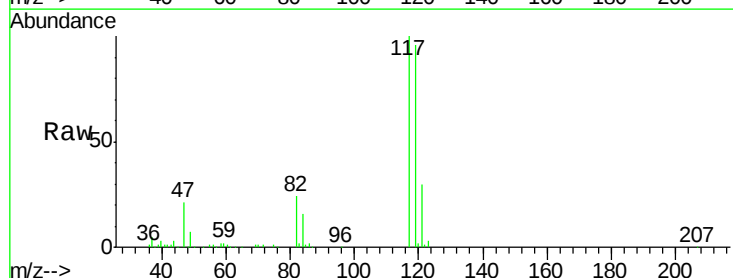
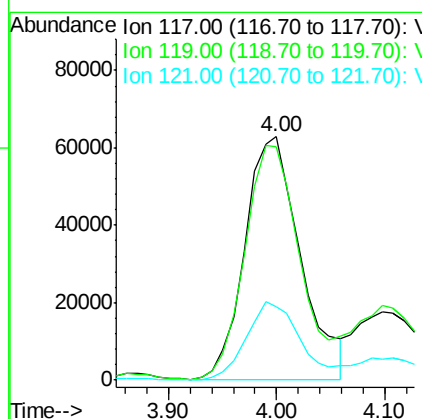
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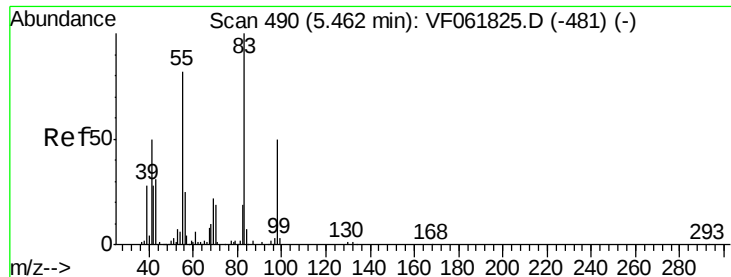
MMDadoda
3/5/2019 10:47:31 AM



#38
Carbon Tetrachloride
Concen: 71.511 ug/l
RT: 4.00 min Scan# 342
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.9	75.6	113.4
121	30.3	25.2	37.8





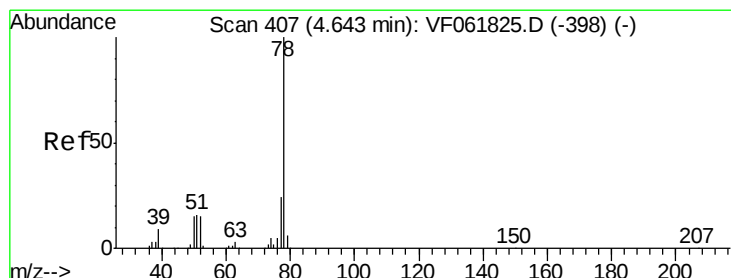
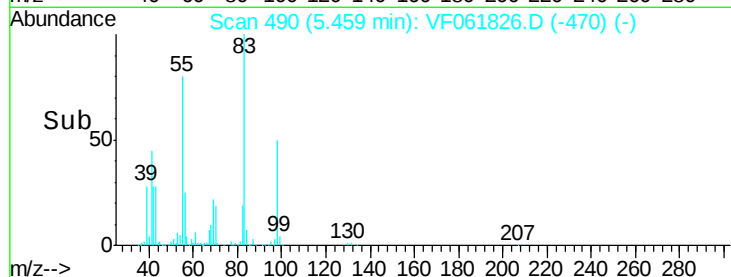
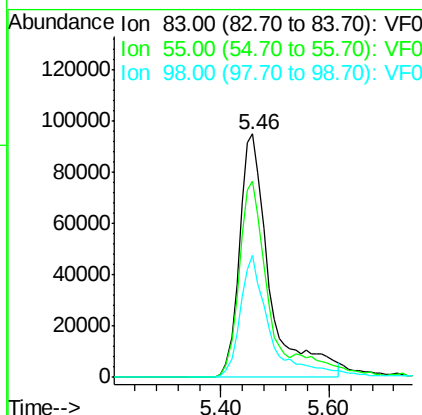
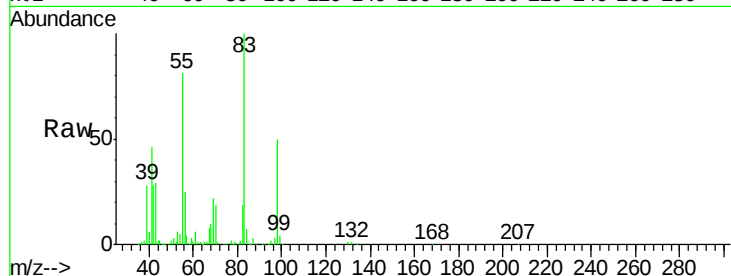
#39
Methvlcvclohexane
Concen: 69.242 ug/l
RT: 5.46 min Scan# 490
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	83	Resp	370700
Ion Ratio	Lower	Upper	
83	100		
55	80.6	66.6	99.8
98	50.0	40.4	60.6

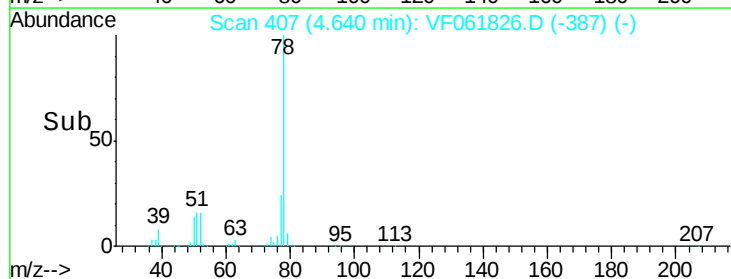
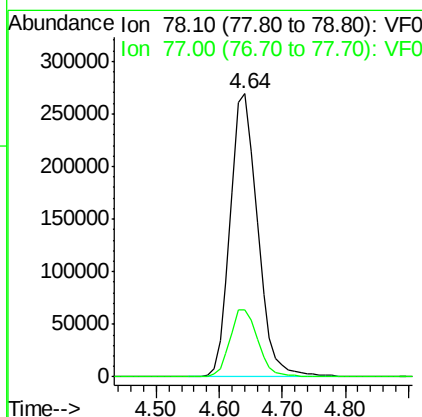
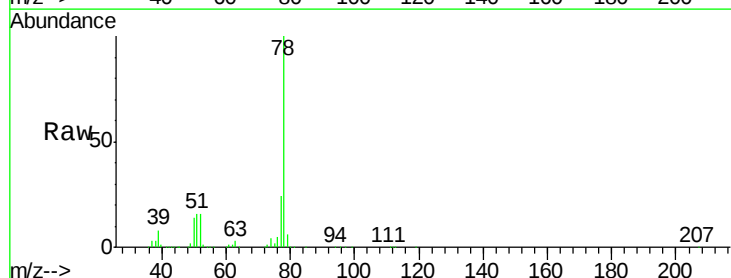
Manual Integrations
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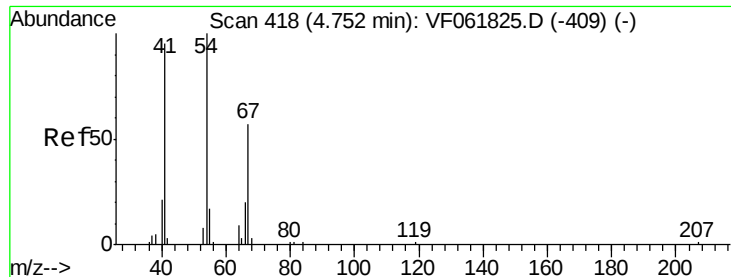
MMDadoda
3/5/2019 10:47:31 AM



#40
Benzene
Concen: 68.644 ug/l
RT: 4.64 min Scan# 407
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	78	Resp	812795
Ion Ratio	Lower	Upper	
78	100		
77	23.9	19.0	28.6





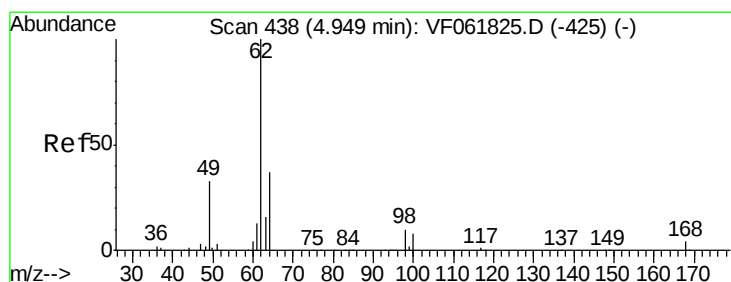
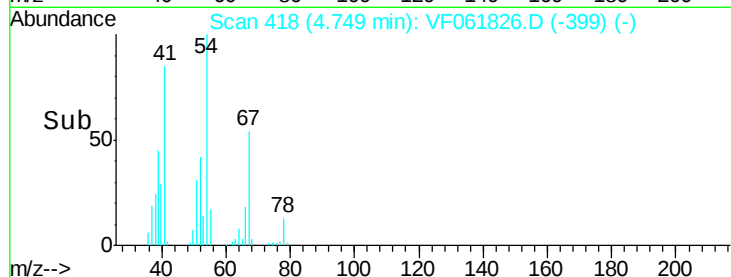
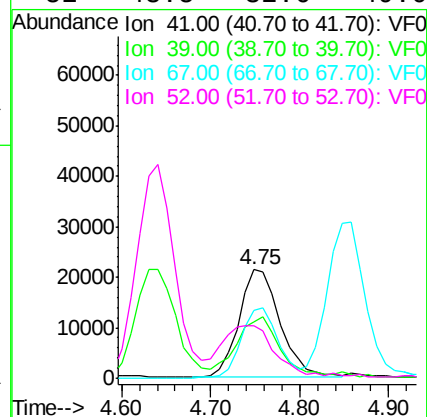
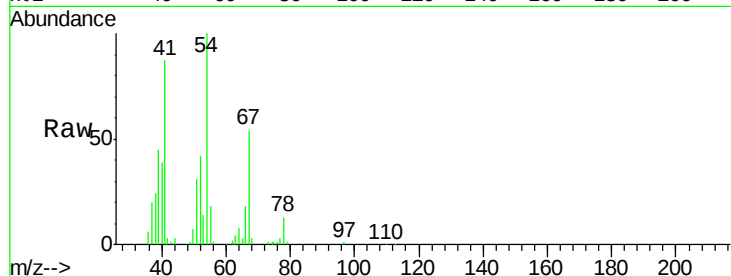
#41
Methacrylonitrile
Concen: 63.424 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		68198		
39	51.9	45.3	67.9		
67	62.3	49.3	73.9		
52	48.5	32.6	49.0		

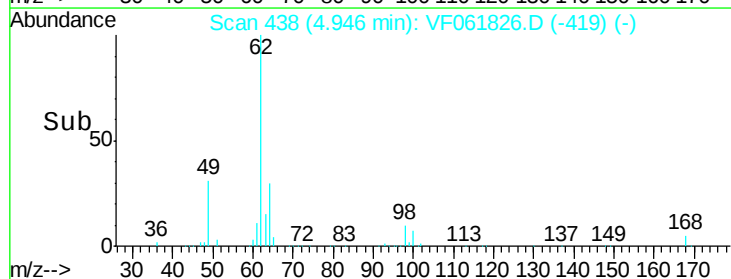
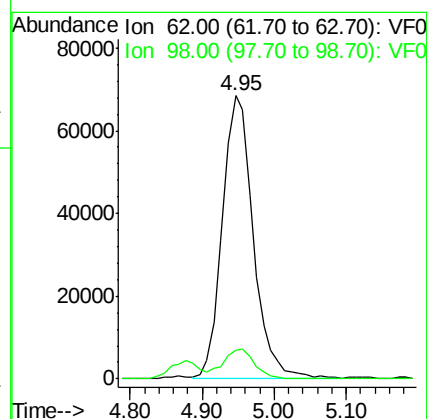
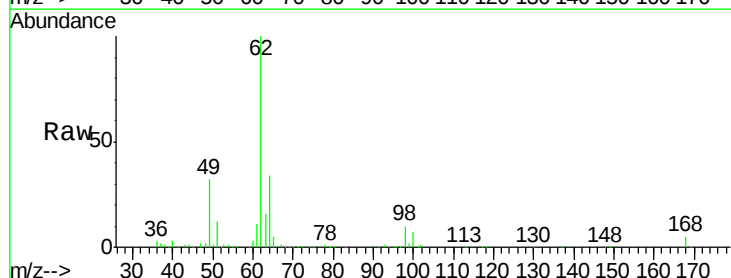
Manual Integrations
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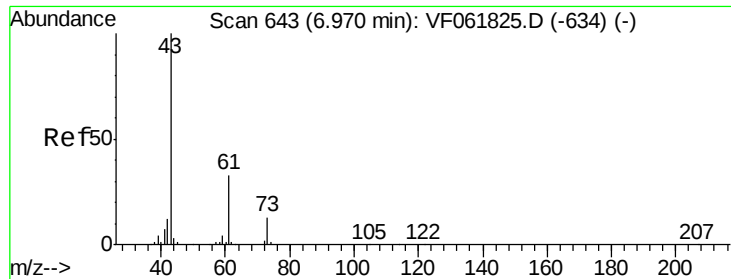
MMDadoda
3/5/2019 10:47:31 AM



#42
1,2-Dichloroethane
Concen: 70.710 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		200275		
98	10.3	0.0	26.0		





#43

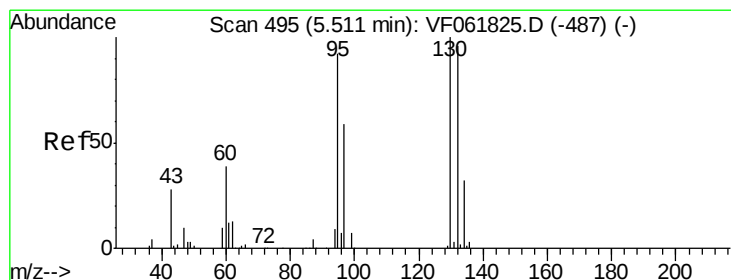
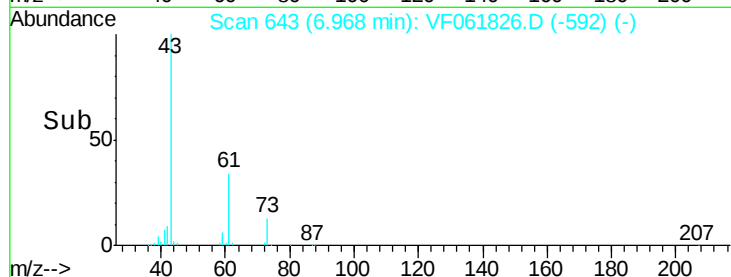
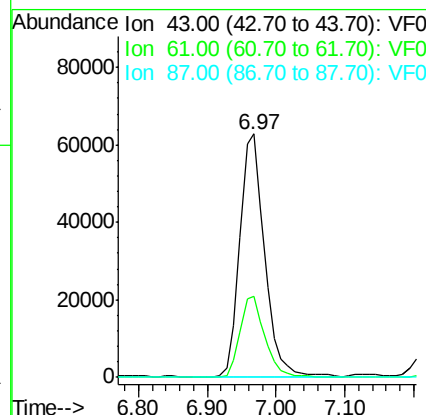
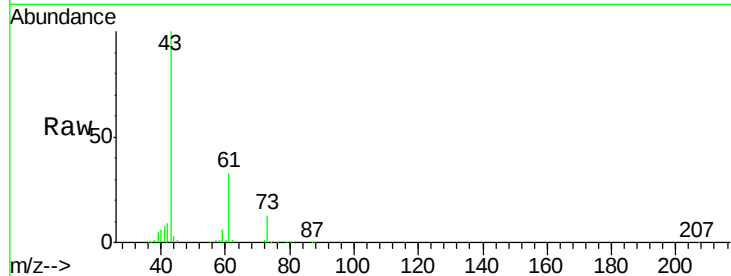
Isopropyl Acetate
 Concen: 63.473 ug/l
 RT: 6.97 min Scan# 643
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
61	33.2	25.8	38.6
87	0.3	0.4	0.6

Manual Integrations
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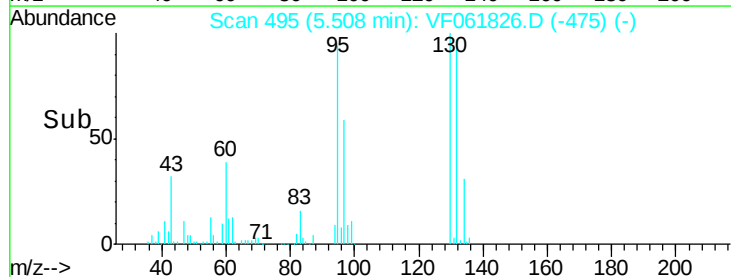
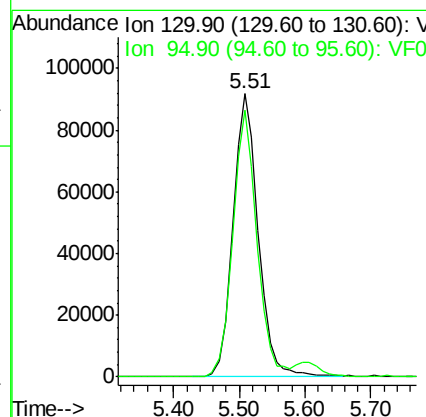
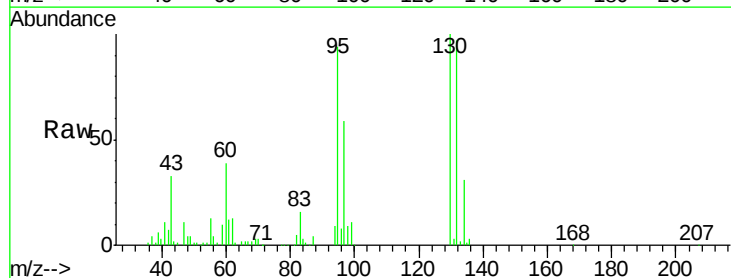
MMDadoda
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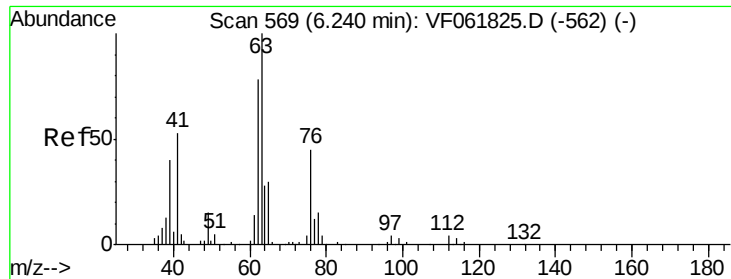


#44

Trichloroethene
 Concen: 64.436 ug/l
 RT: 5.51 min Scan# 495
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.2	0.0	179.4





#45

1,2-Dichloropropane

Concen: 68.336 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 63 Resp: 195585

Ion Ratio Lower Upper

63 100

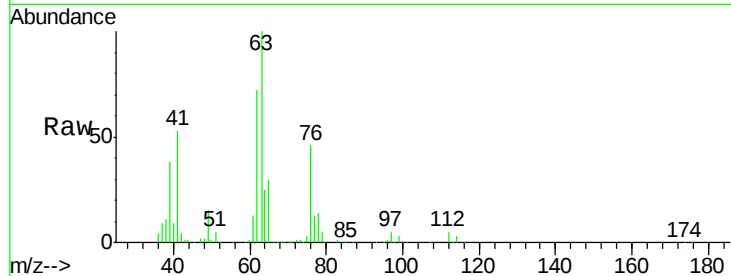
65 30.0 24.9 37.3

Manual Integrations

APPROVED

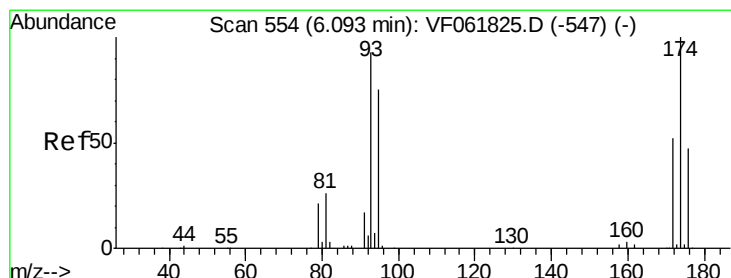
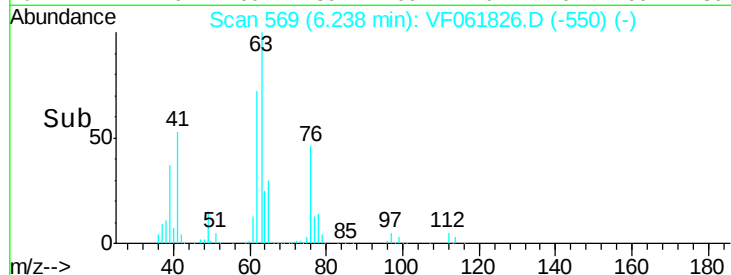
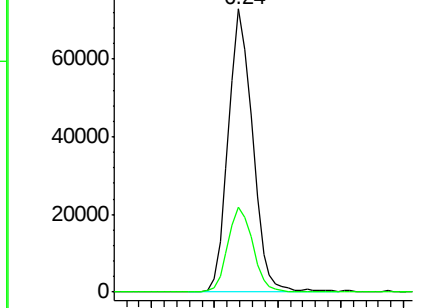
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 70.525 ug/l

RT: 6.09 min Scan# 554

Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

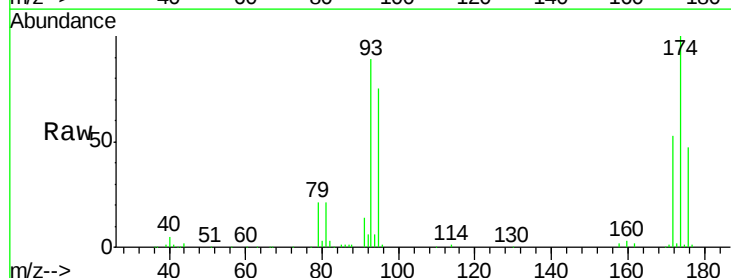
Tgt Ion: 93 Resp: 124281

Ion Ratio Lower Upper

93 100

95 84.8 69.0 103.6

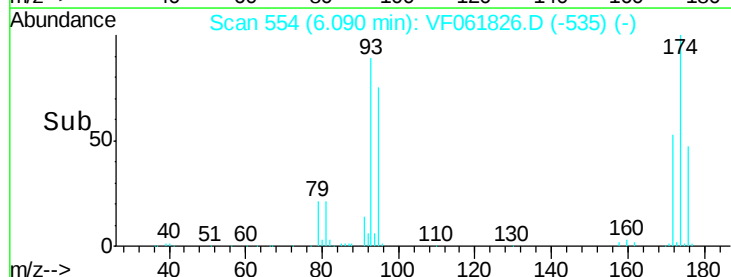
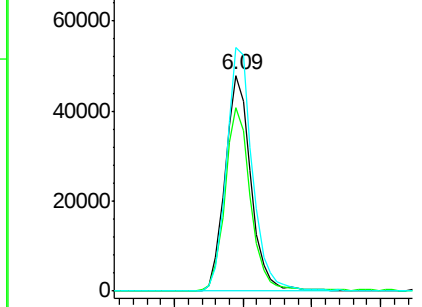
174 112.8 99.3 148.9

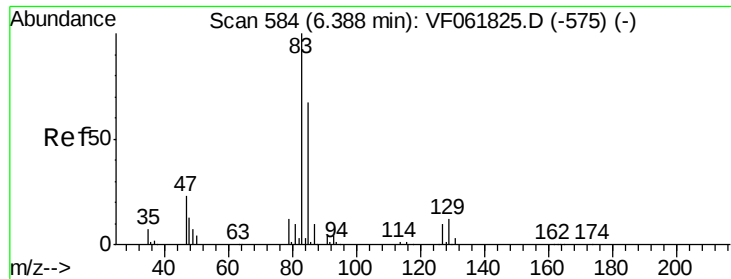


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 71.318 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

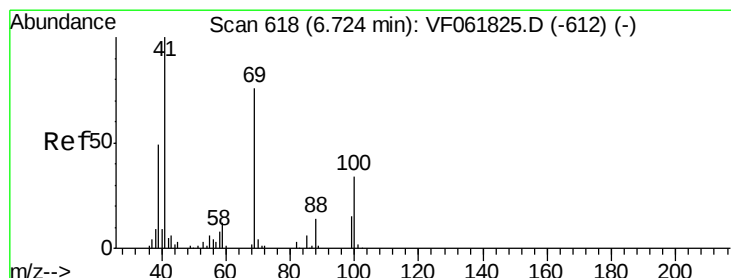
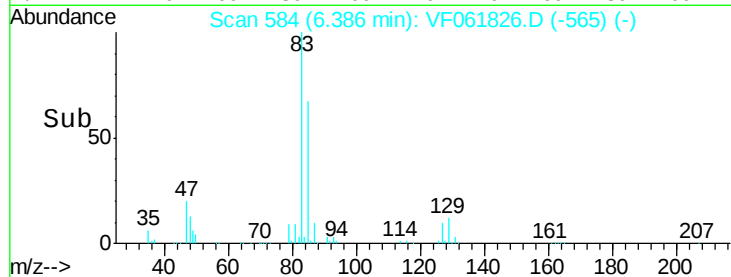
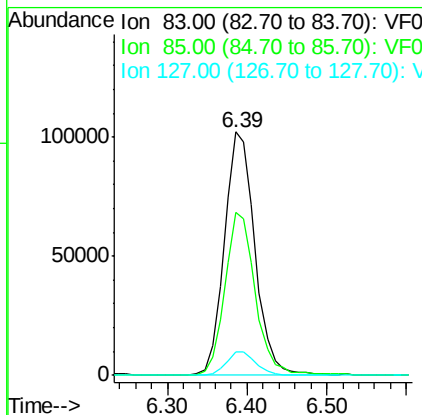
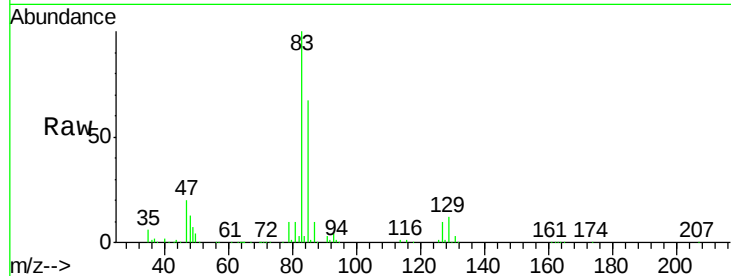
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	275219
Ion	Ratio	Lower	Upper
83	100		
85	67.1	53.4	80.2
127	9.7	7.5	11.3

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#48

Methyl methacrylate

Concen: 66.926 ug/l

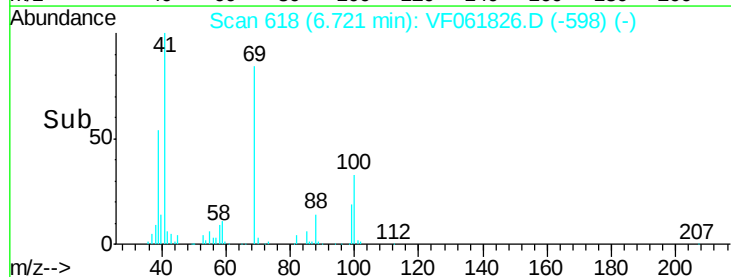
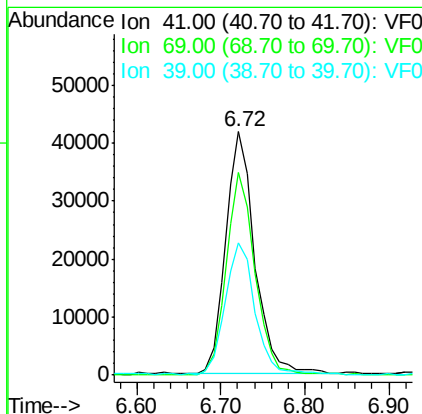
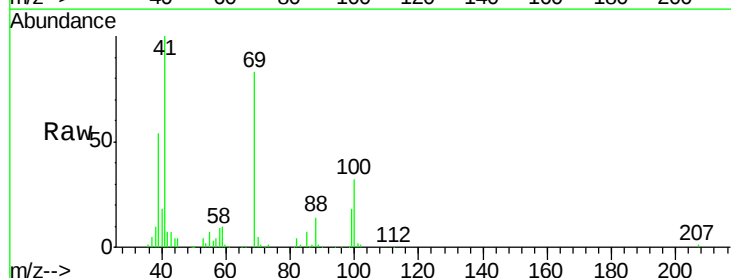
RT: 6.72 min Scan# 618

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Tgt Ion:	41	Resp:	100238
Ion	Ratio	Lower	Upper
41	100		
69	83.0	60.4	90.6
39	54.4	43.7	65.5





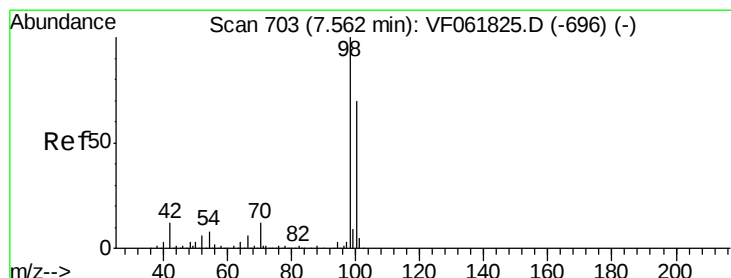
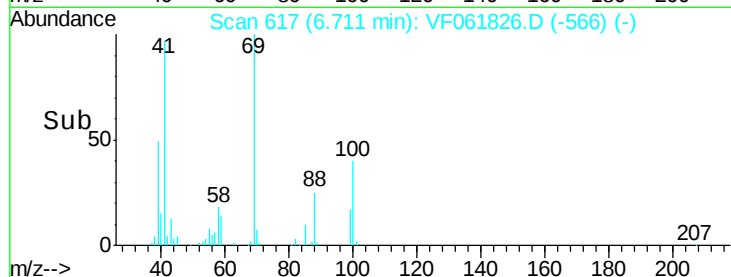
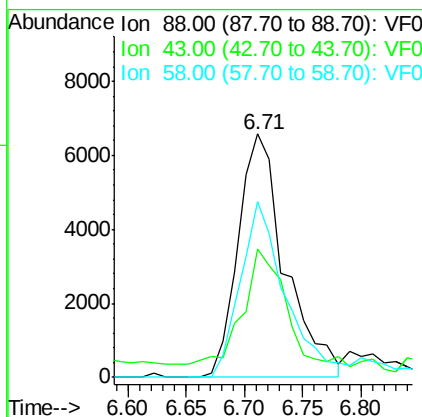
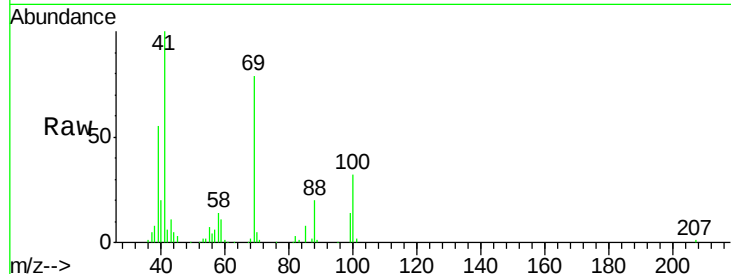
#49
1,4-Dioxane
Concen: 1305.438 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	52.6		32.3	48.5#
58	72.3		59.4	89.2

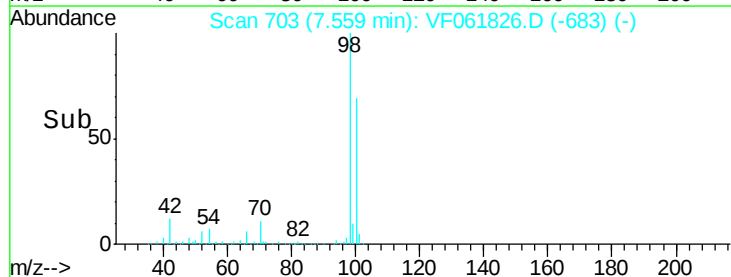
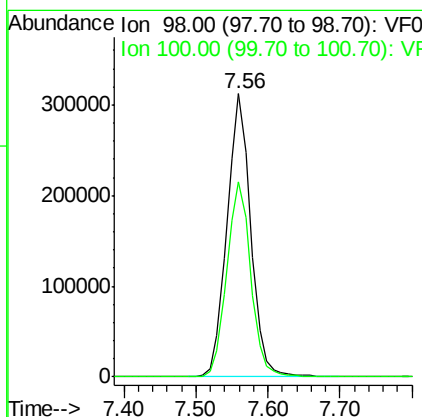
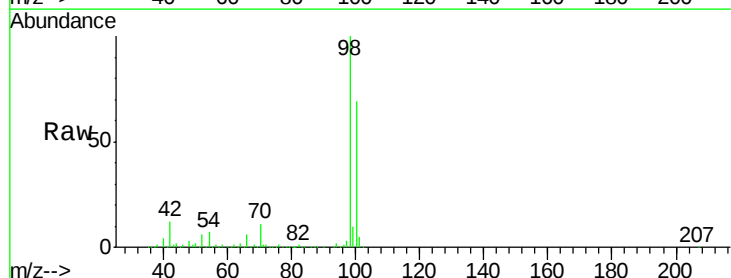
Manual Integrations
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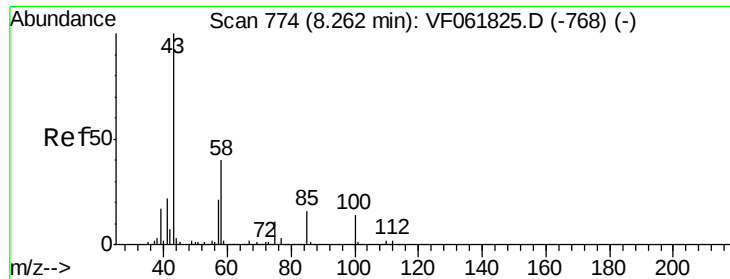
MMDadoda
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#50
Toluene-d8
Concen: 73.522 ug/l
RT: 7.56 min Scan# 703
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	69.1		55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 290.637 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 516852

Ion Ratio Lower Upper

43 100

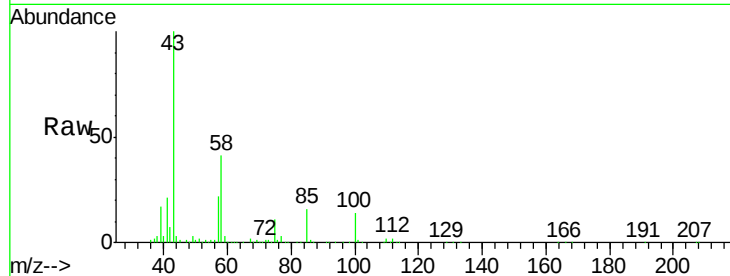
58 41.2 33.1 49.7

Manual Integrations

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3/5/2019 10:47:31 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

250000

200000

150000

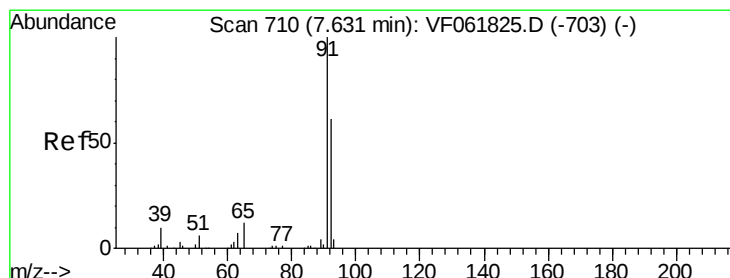
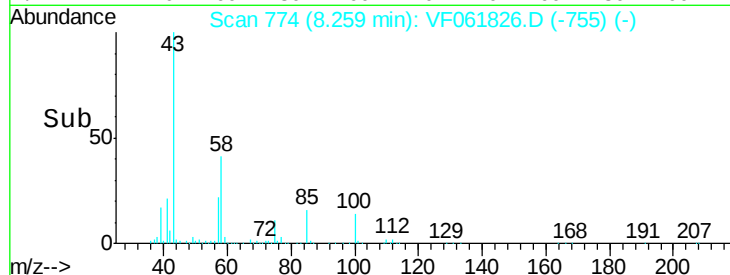
100000

50000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 63.504 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF061826.D

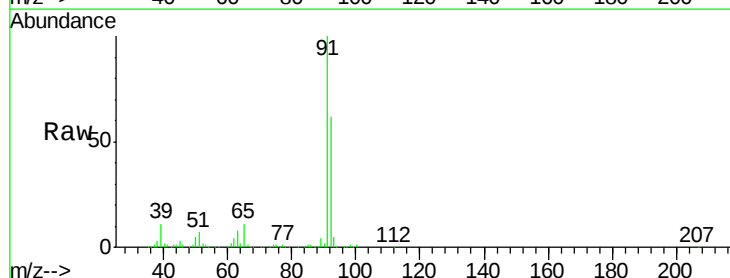
Acq: 4 Mar 2019 17:58

Tgt Ion: 92 Resp: 456032

Ion Ratio Lower Upper

92 100

91 161.0 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

300000

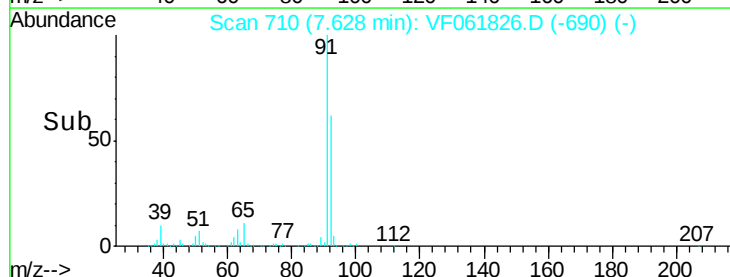
200000

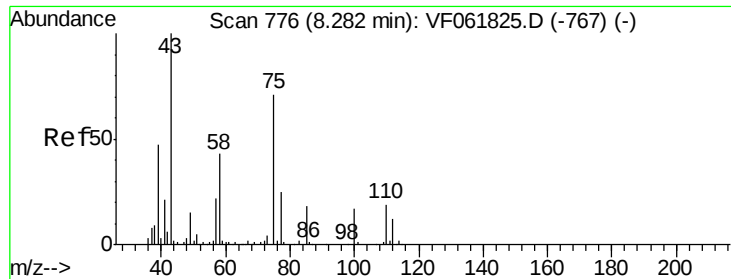
100000

0

7.50 7.60 7.70 7.80

Time-->





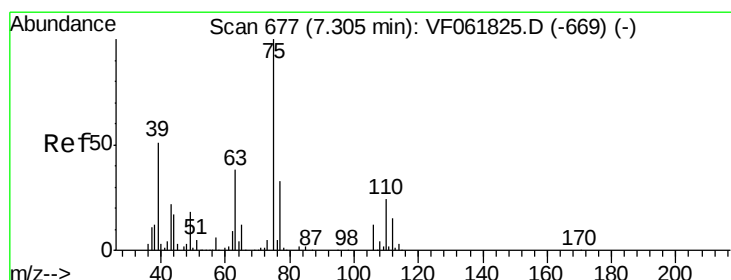
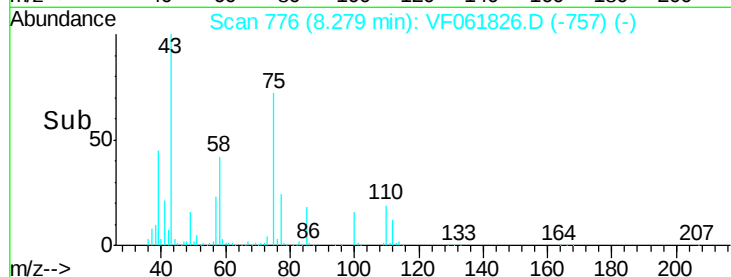
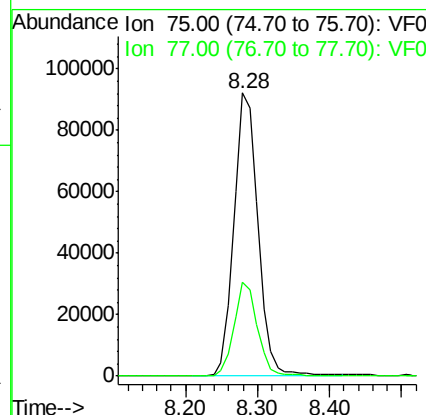
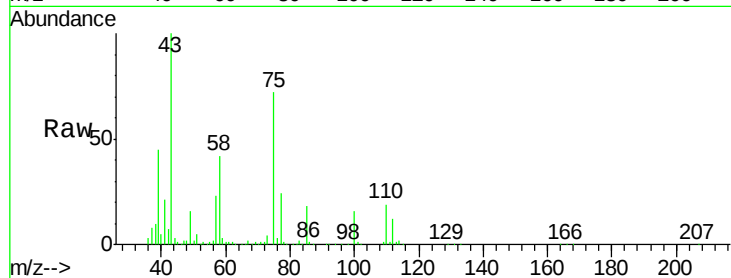
#53
t-1,3-Dichloropropene
Concen: 67.223 ug/l
RT: 8.28 min Scan# 776
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.1	26.2	39.2

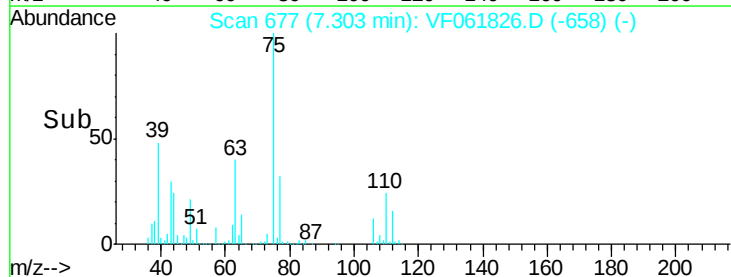
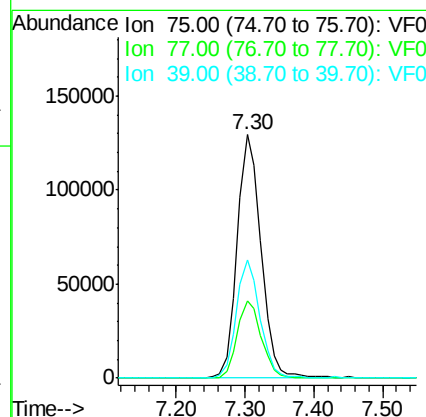
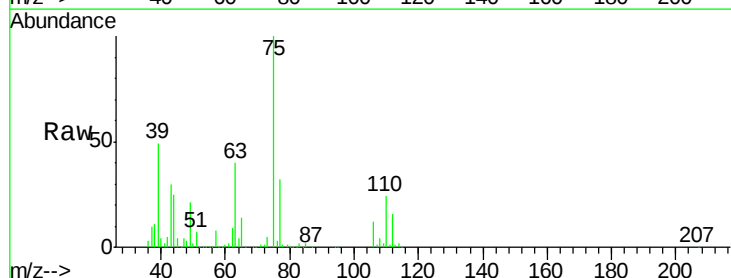
Manual Integrations
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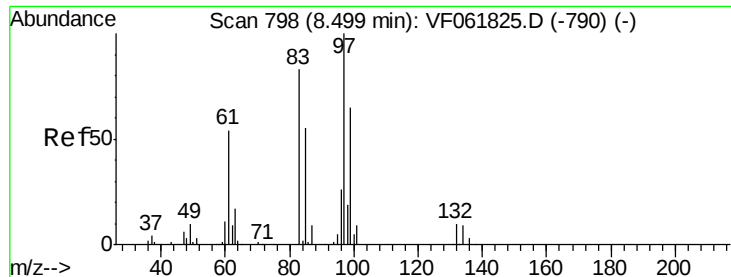
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#54
cis-1,3-Dichloropropene
Concen: 72.869 ug/l
RT: 7.30 min Scan# 677
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.9	26.4	39.6
39	48.5	36.0	54.0





#55

1,1,2-Trichloroethane

Concen: 64.467 ug/l

RT: 8.50 min Scan# 798

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

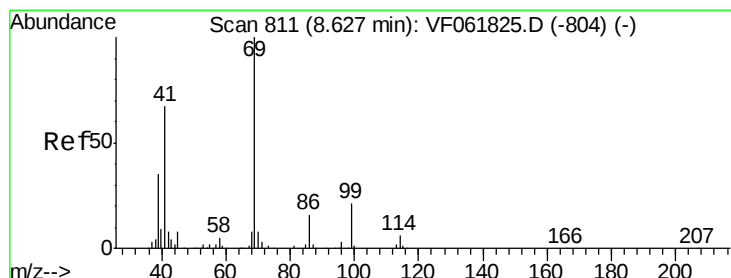
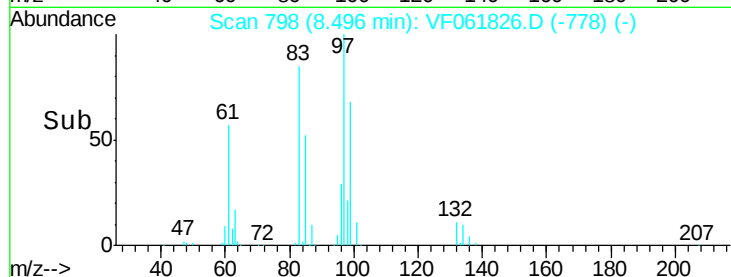
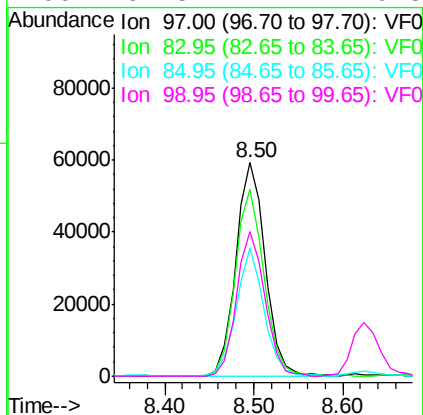
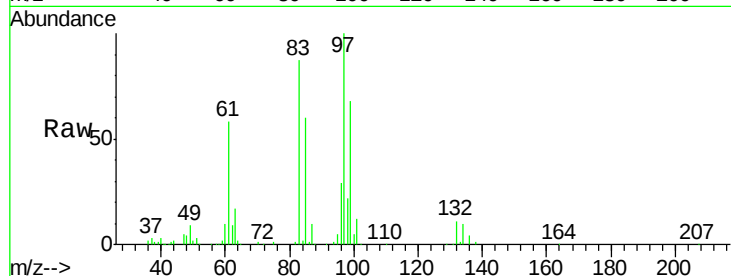
ClientSampleId :

VSTDIC075

Tot Ion:	97	Resp:	136018
Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.2	103.8
85	59.8	43.0	64.4
99	67.5	47.2	70.8

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#56

Ethyl methacrylate

Concen: 65.057 ug/l

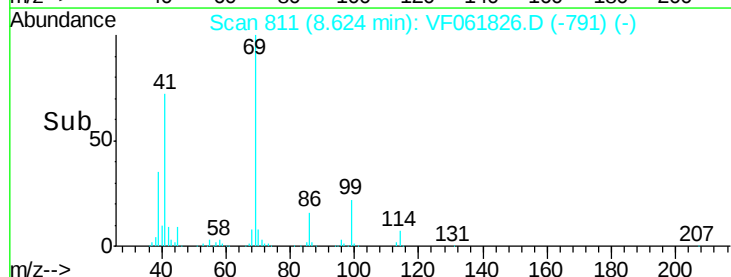
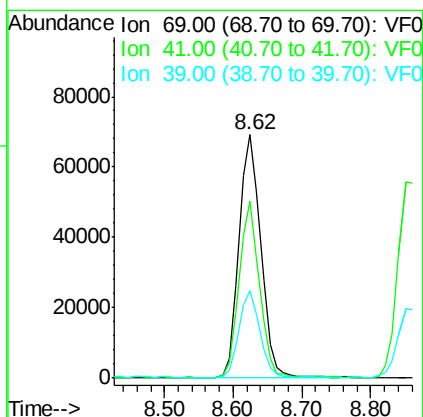
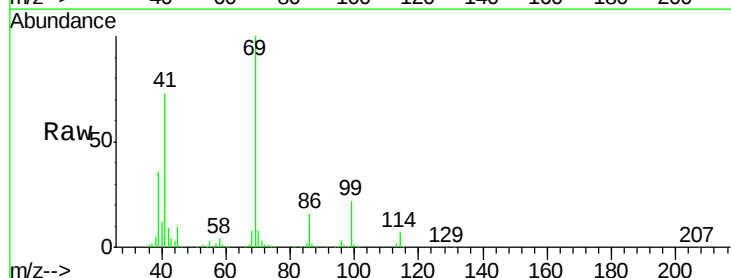
RT: 8.62 min Scan# 811

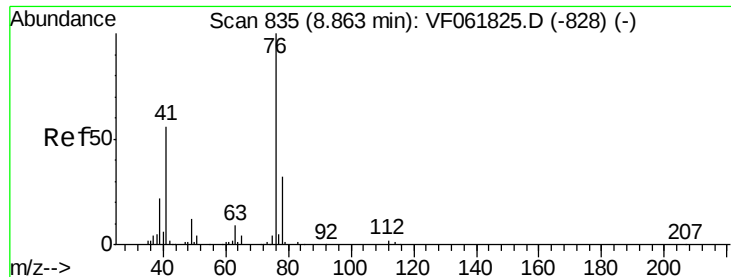
Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Tgt Ion:	69	Resp:	152824
Ion	Ratio	Lower	Upper
69	100		
41	72.6	52.9	79.3
39	35.9	24.5	36.7





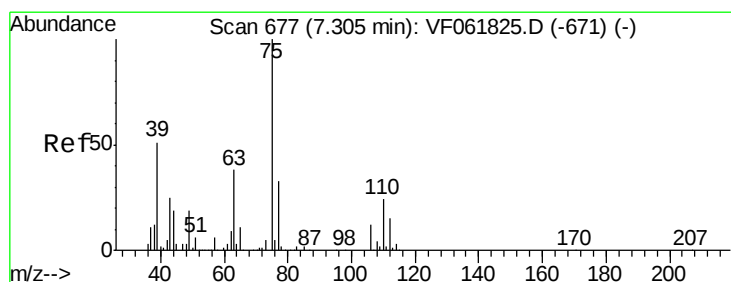
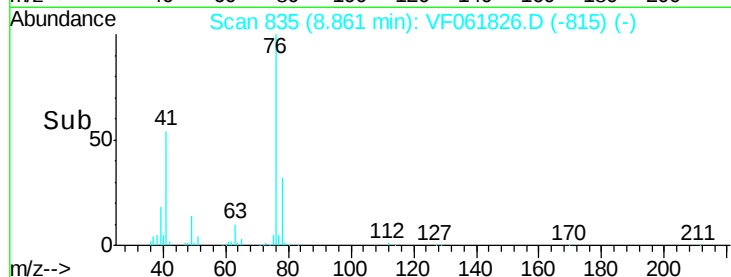
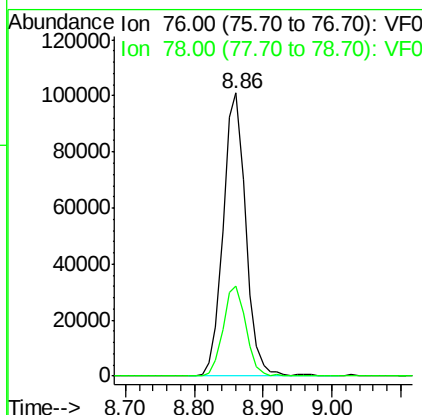
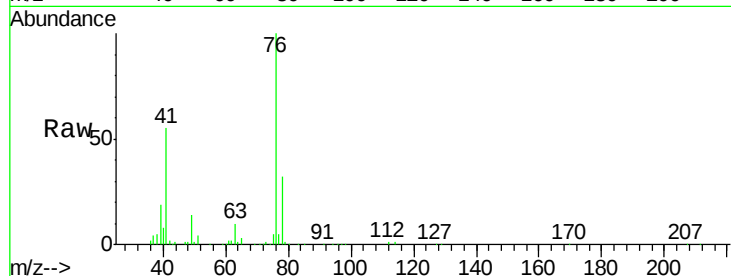
#57
 1,3-Dichloropropane
 Concen: 65.125 ug/l
 RT: 8.86 min Scan# 835
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion: 76 Resp: 229349
 Ion Ratio Lower Upper
 76 100
 78 31.7 27.8 41.6

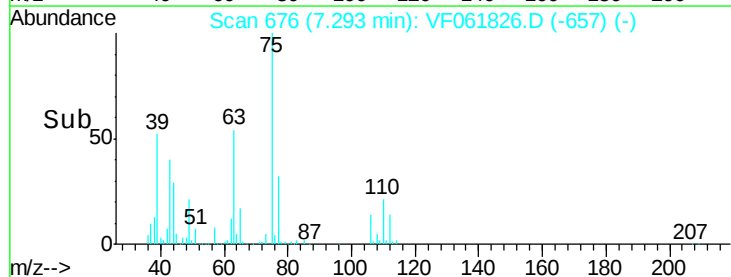
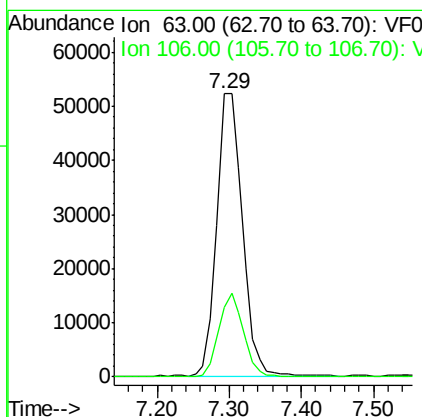
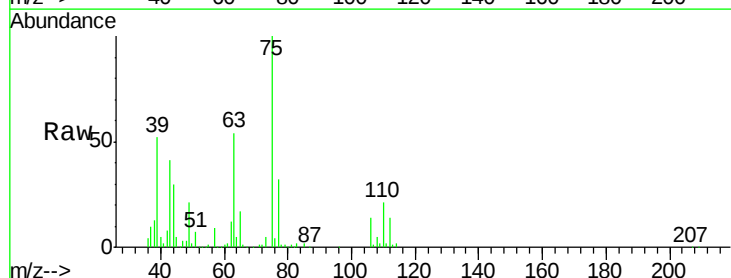
Manual Integrations
 APPROVED

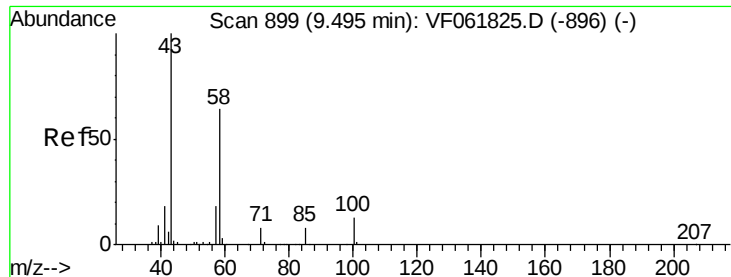
MMDadoda
 3/5/2019 10:47:31 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 320.492 ug/l
 RT: 7.29 min Scan# 676
 Delta R.T. -0.01 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Tgt Ion: 63 Resp: 129895
 Ion Ratio Lower Upper
 63 100
 106 24.8 24.6 36.8





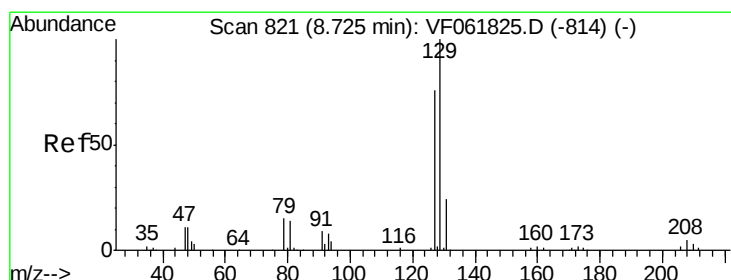
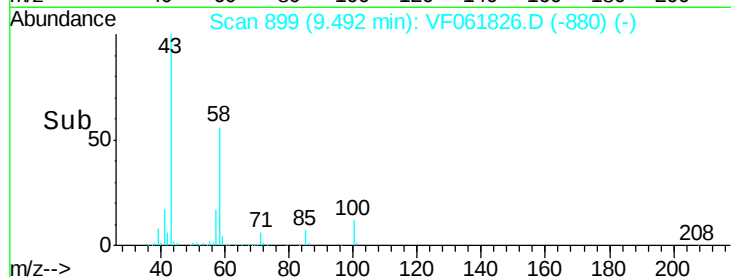
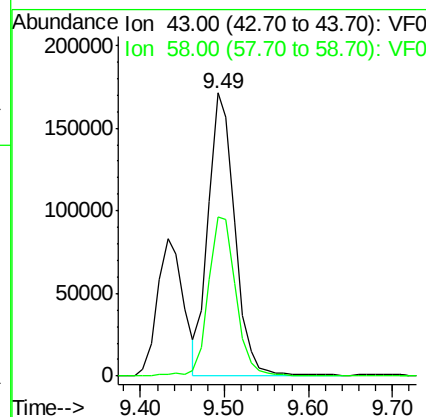
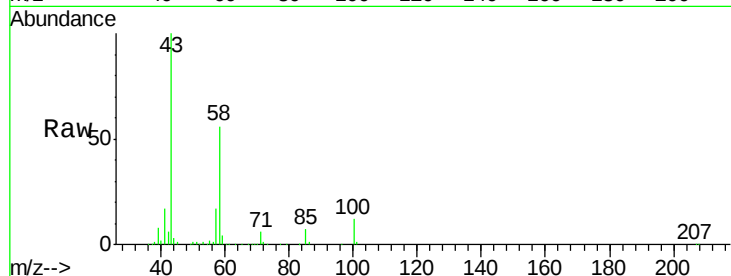
#59
2-Hexanone
Concen: 299.574 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 43 Resp: 373440
Ion Ratio Lower Upper
43 100
58 56.2 28.5 85.5

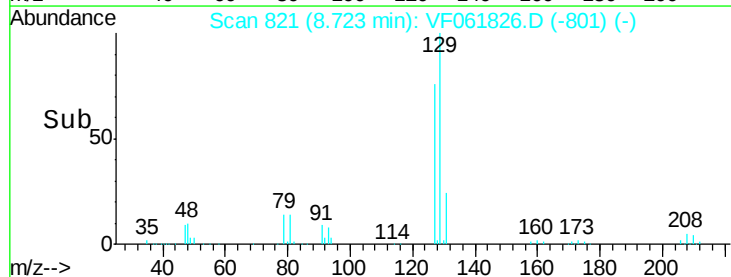
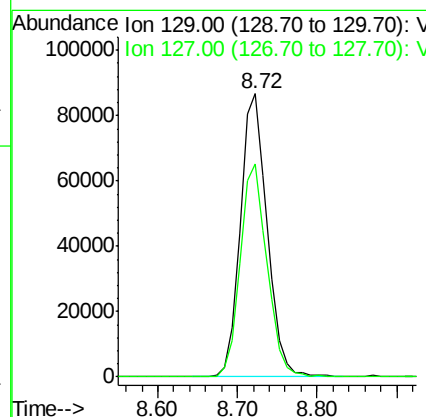
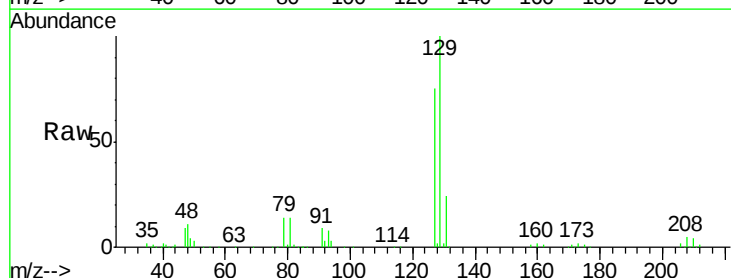
Manual Integrations
APPROVED

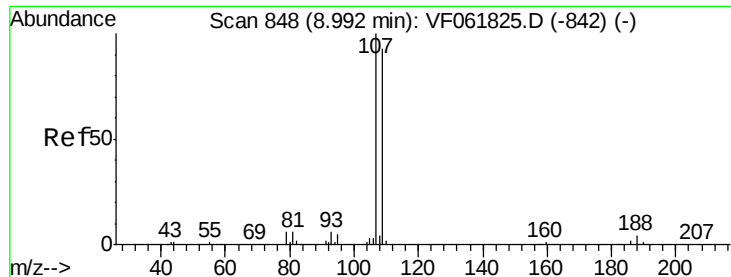
MMDadoda
3/5/2019 10:47:31 AM



#60
Dibromochloromethane
Concen: 68.783 ug/l
RT: 8.72 min Scan# 821
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion: 129 Resp: 201995
Ion Ratio Lower Upper
129 100
127 75.4 37.8 113.4





#61

1,2-Dibromoethane

Concen: 66.714 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:107 Resp: 152673

Ion Ratio Lower Upper

107 100

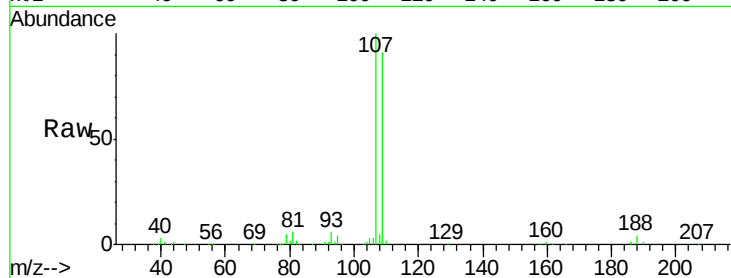
109 91.2 77.4 116.0

Manual Integrations

APPROVED

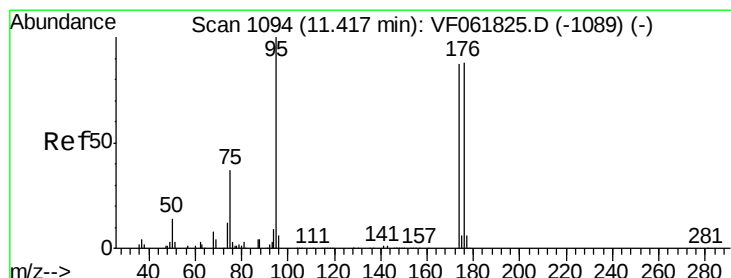
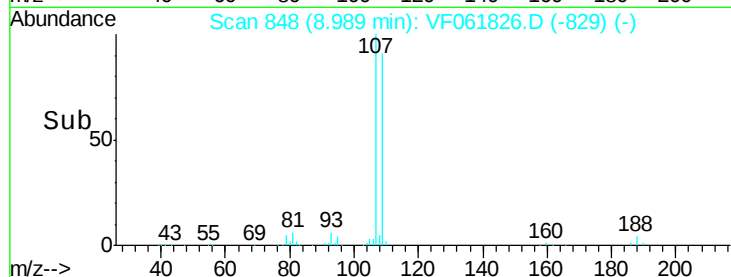
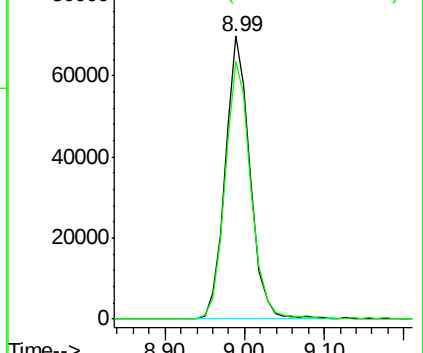
MMDadoda

3/5/2019 10:47:31 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 69.221 ug/l

RT: 11.41 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

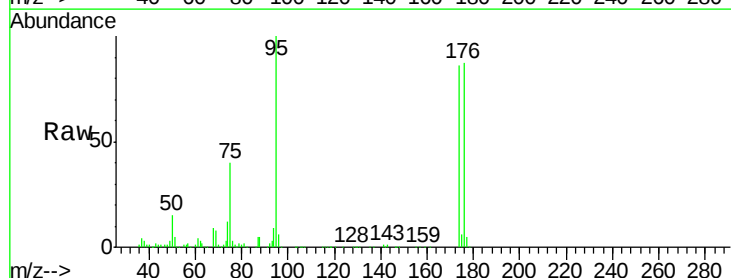
Tgt Ion: 95 Resp: 273227

Ion Ratio Lower Upper

95 100

174 86.3 0.0 165.8

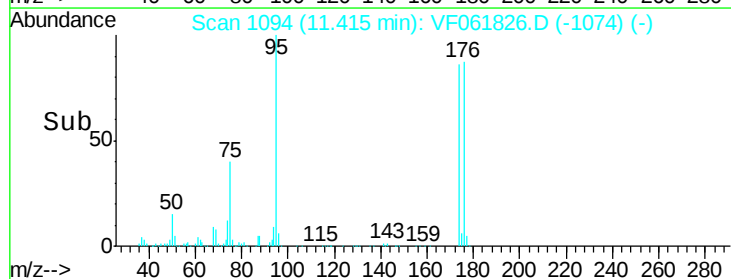
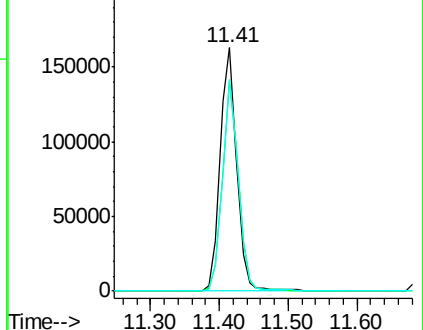
176 86.9 0.0 167.0

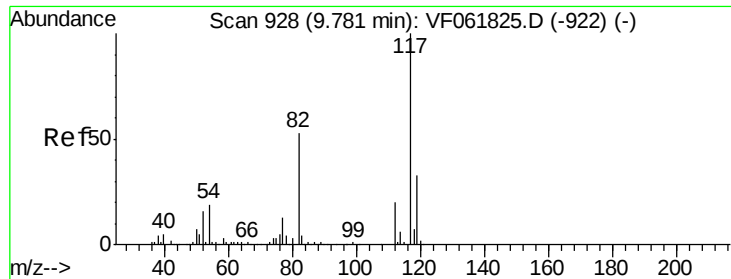


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





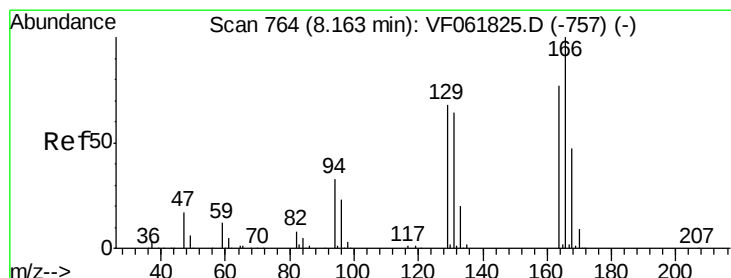
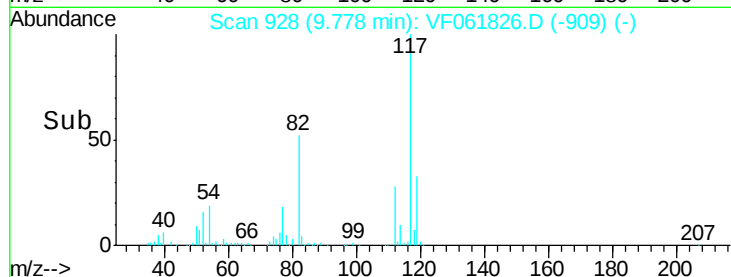
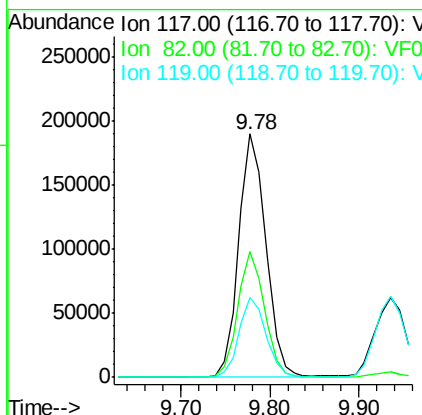
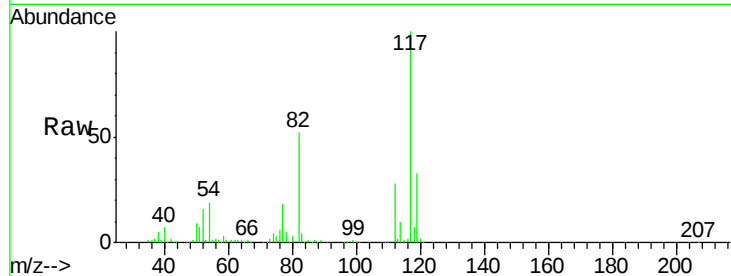
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
117	100	405905		
82	51.9		39.3	58.9
119	33.0		26.6	40.0

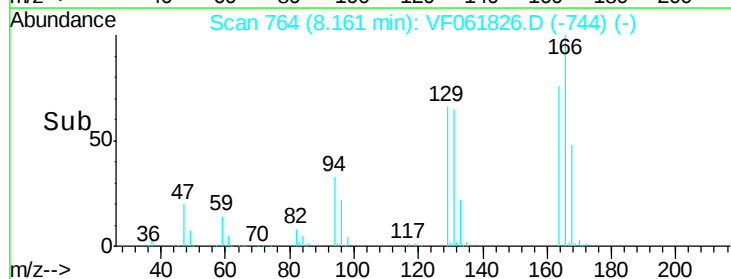
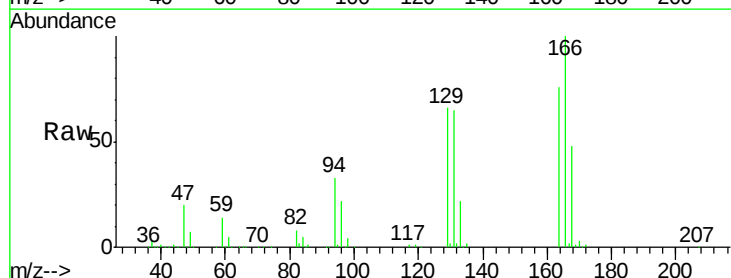
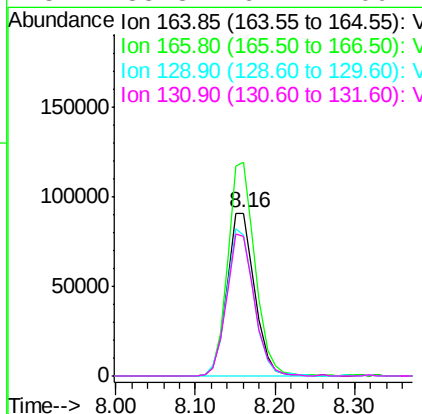
Manual Integrations
APPROVED

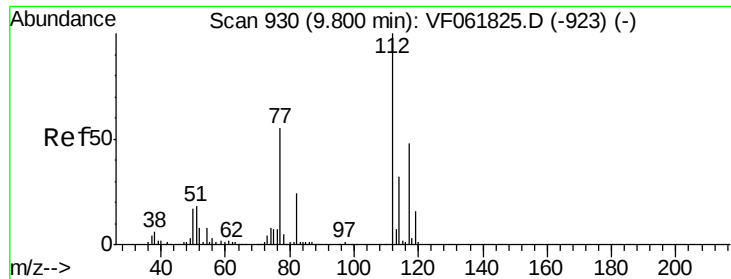
MMDadoda
3/5/2019 10:47:31 AM



#64
Tetrachloroethene
Concen: 66.747 ug/l
RT: 8.16 min Scan# 764
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	221453		
166	131.1		103.9	155.9
129	86.7		71.3	106.9
131	85.3		67.1	100.7





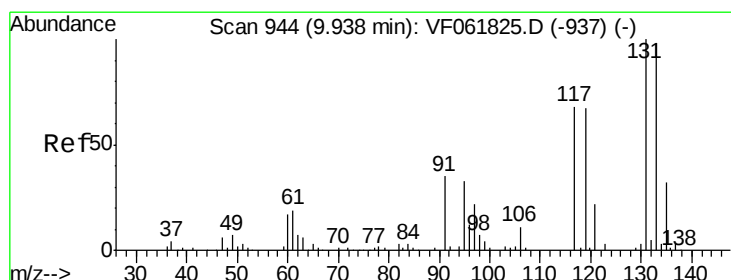
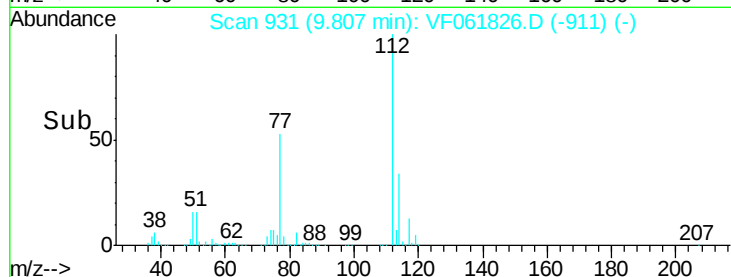
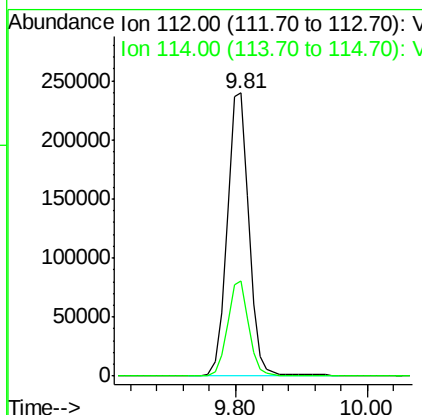
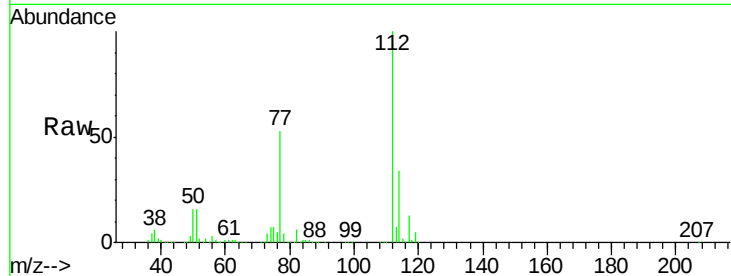
#65
Chlorobenzene
Concen: 67.440 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion:112 Resp: 555484
Ion Ratio Lower Upper
112 100
114 33.5 26.2 39.2

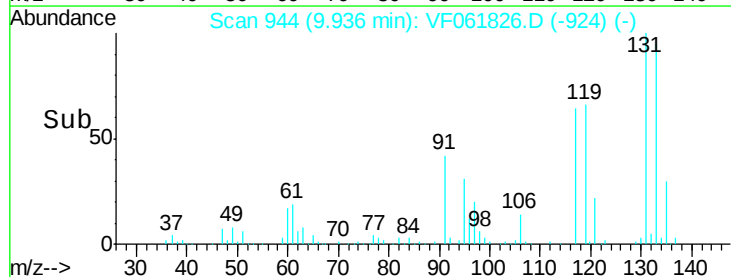
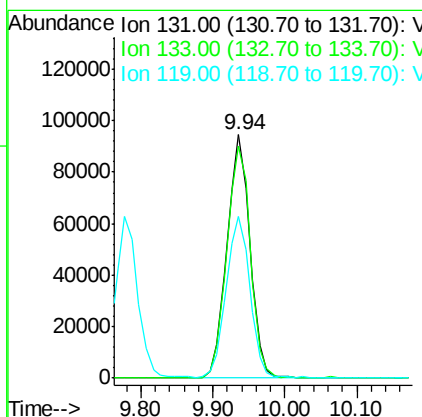
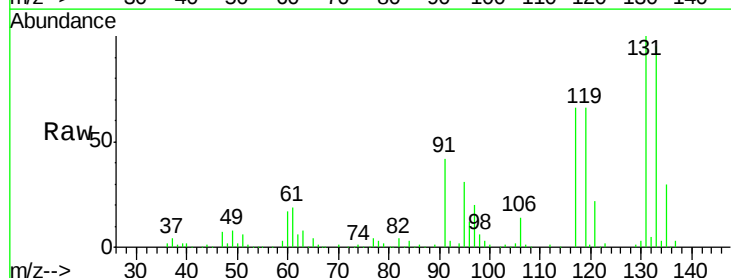
Manual Integrations
APPROVED

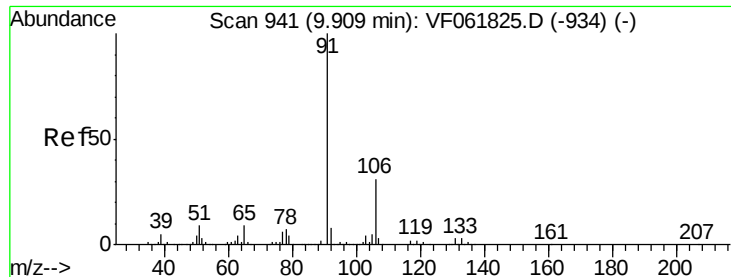
MMDadoda
3/5/2019 10:47:31 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 65.146 ug/l
RT: 9.94 min Scan# 944
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion:131 Resp: 210264
Ion Ratio Lower Upper
131 100
133 95.2 48.9 146.6
119 66.3 34.8 104.3





#67

Ethyl Benzene

Concen: 63.349 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 867723

Ion Ratio Lower Upper

91 100

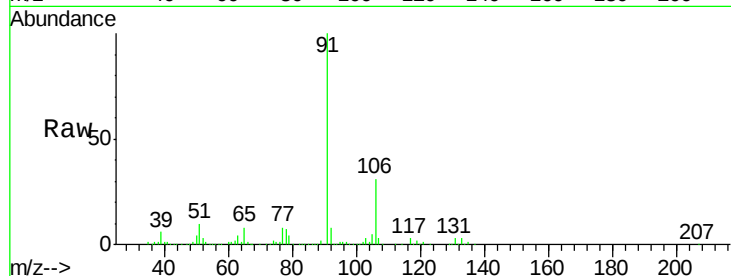
106 31.4 24.1 36.1

Manual Integrations

APPROVED

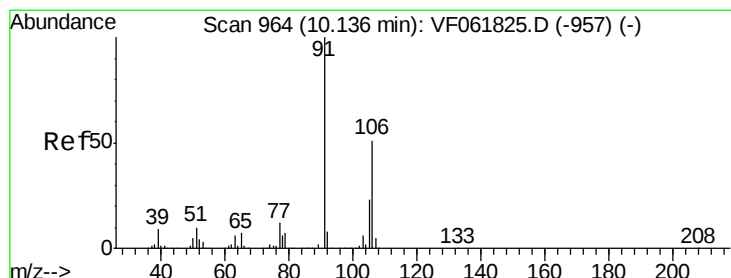
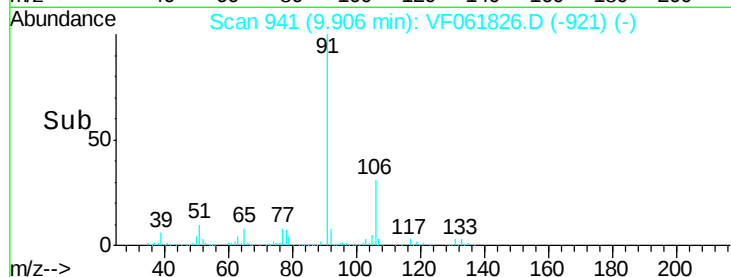
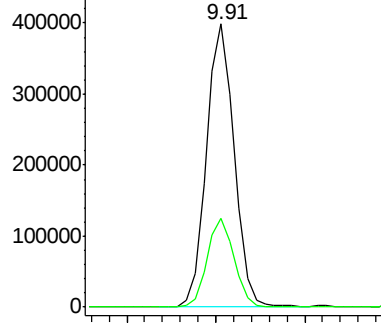
MMDadoda

3/5/2019 10:47:31 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 133.319 ug/l

RT: 10.14 min Scan# 965

Delta R.T. -0.00 min

Lab File: VF061826.D

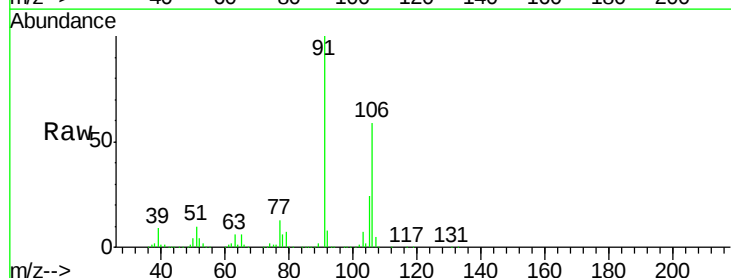
Acq: 4 Mar 2019 17:58

Tgt Ion: 106 Resp: 698891

Ion Ratio Lower Upper

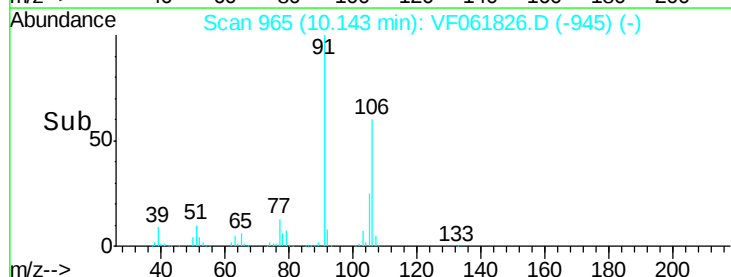
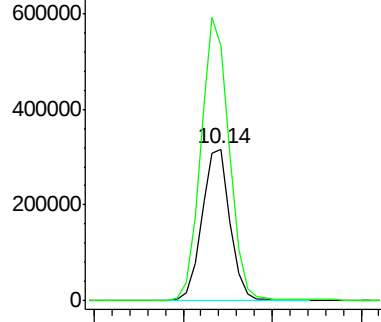
106 100

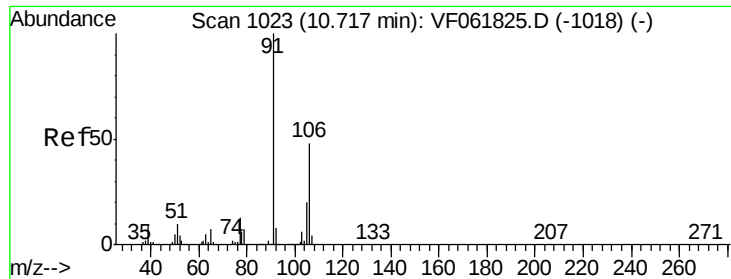
91 168.3 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





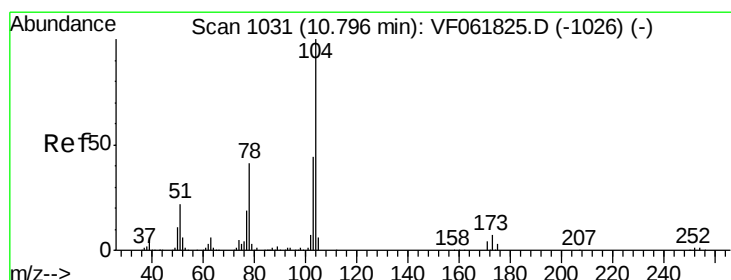
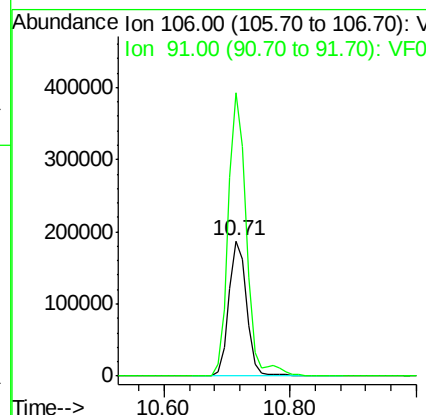
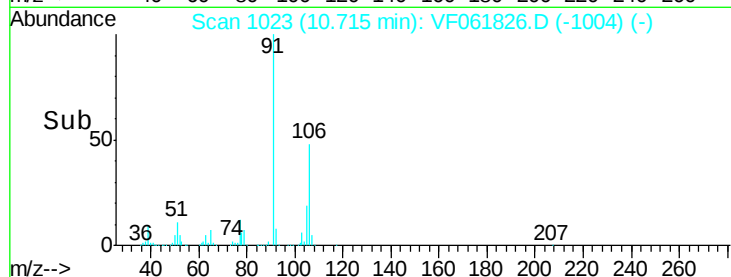
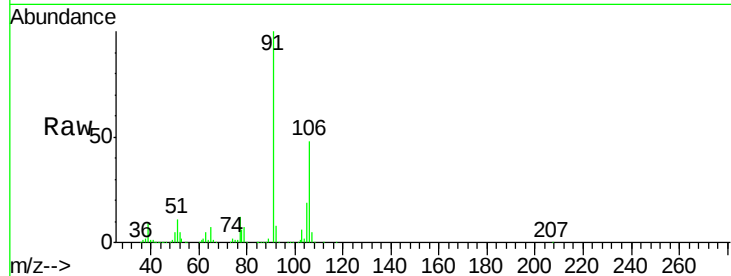
#69
o-Xylene
Concen: 65.317 ug/l
RT: 10.71 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampled :
VSTDIC075

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	208.9	100.1	300.1	

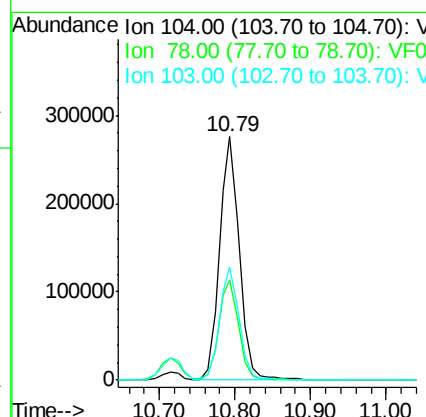
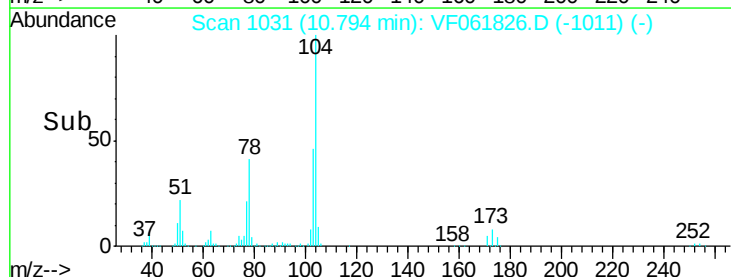
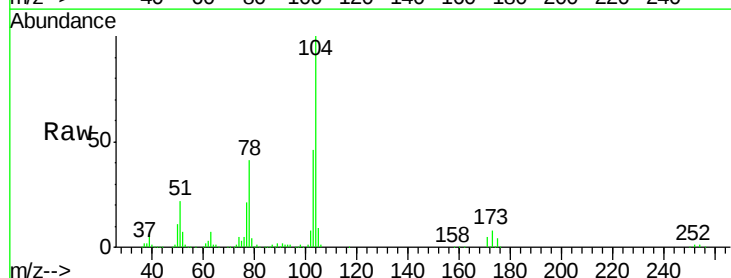
Manual Integrations
APPROVED

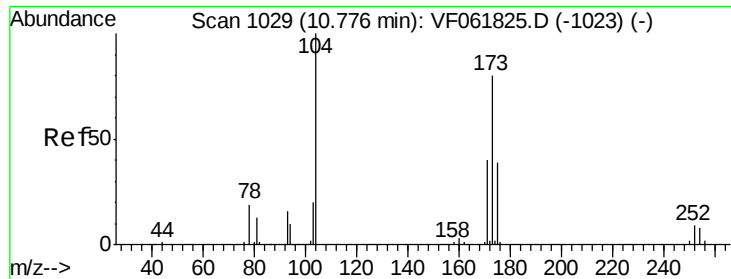
MMDadoda
3/5/2019 10:47:31 AM



#70
Styrene
Concen: 63.749 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	41.4	33.2	49.8	
103	46.4	37.2	55.8	





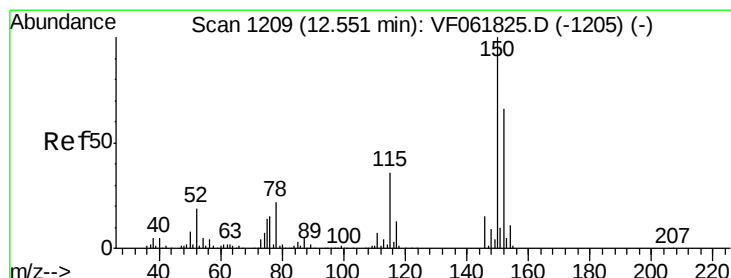
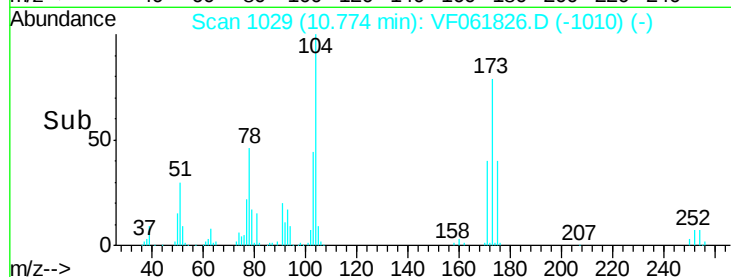
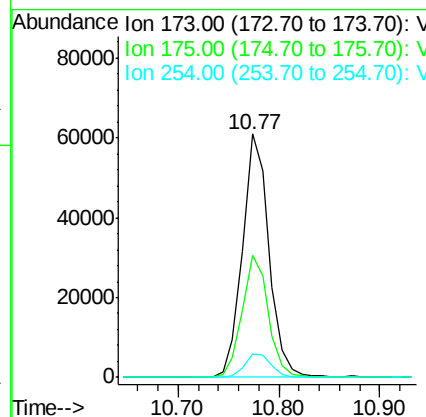
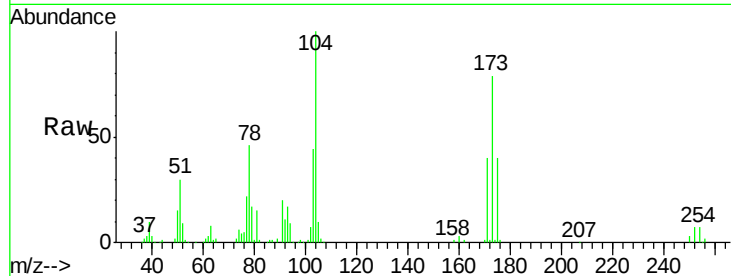
#71
Bromoform
Concen: 63.597 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.3	24.0	72.0
254	9.5	8.2	12.2

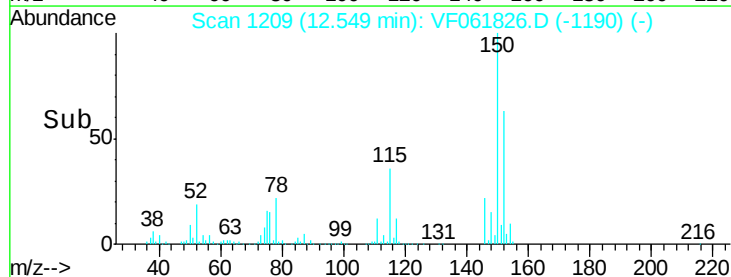
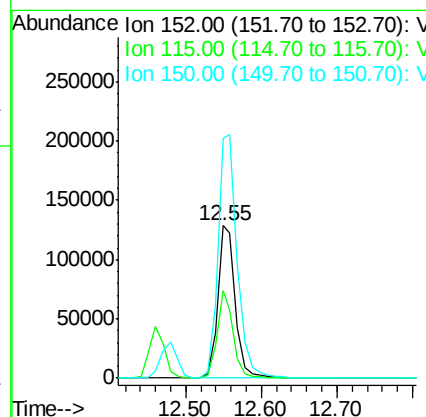
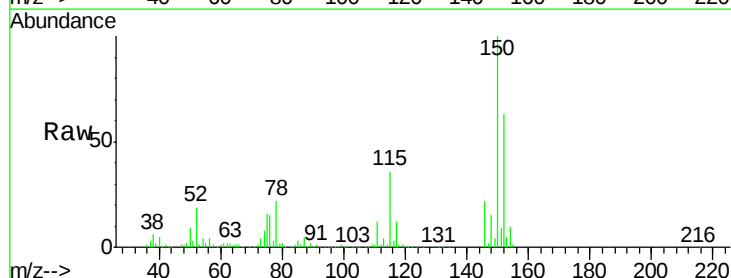
Manual Integrations
APPROVED

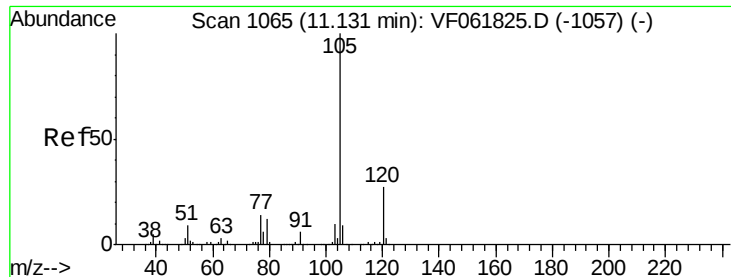
MMDadoda
3/5/2019 10:47:31 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.2	24.3	72.8
150	157.7	0.0	312.0





#73

Isopropylbenzene

Concen: 69.664 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 1042867

Ion Ratio Lower Upper

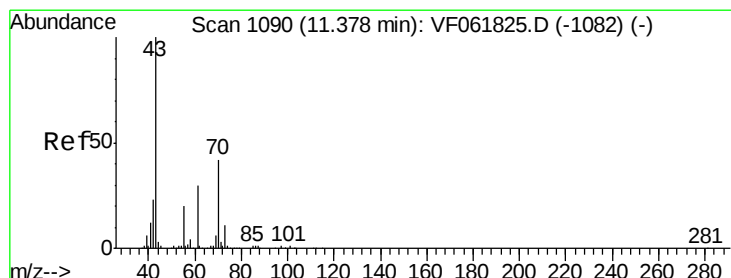
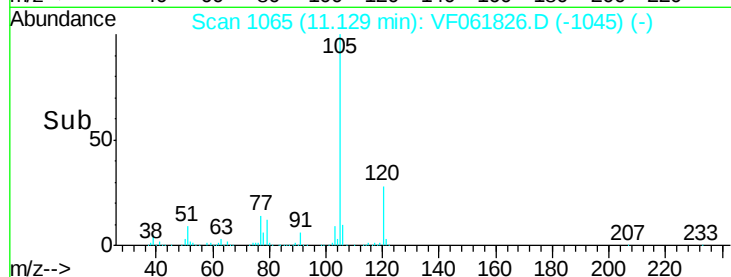
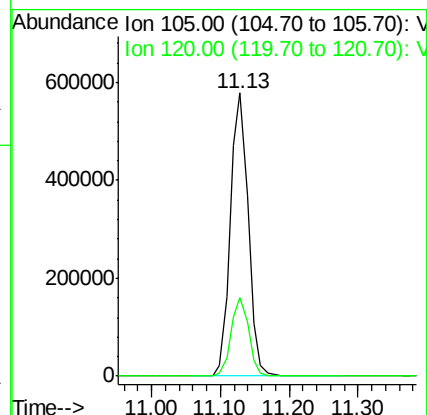
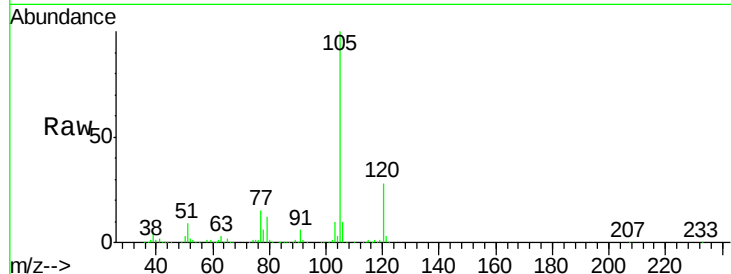
105 100

120 27.7 13.4 40.1

Manual Integrations
APPROVED

MMDadoda

3/5/2019 10:47:31 AM



#74

N-ethyl acetate

Concen: 64.402 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Tgt Ion: 43 Resp: 231405

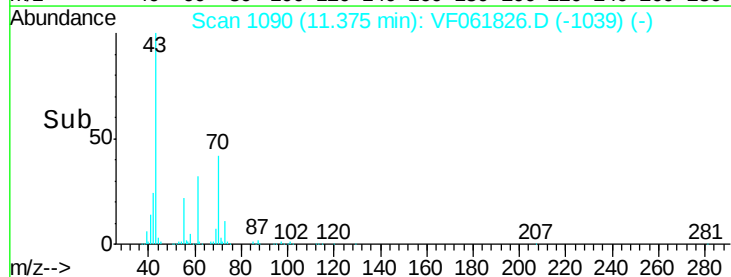
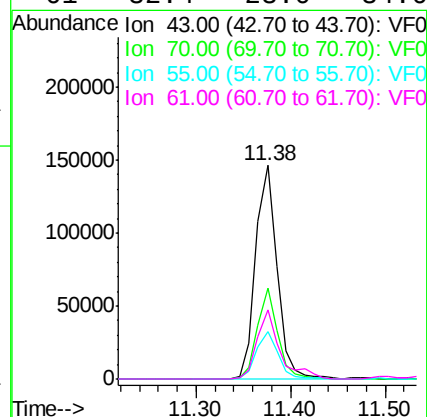
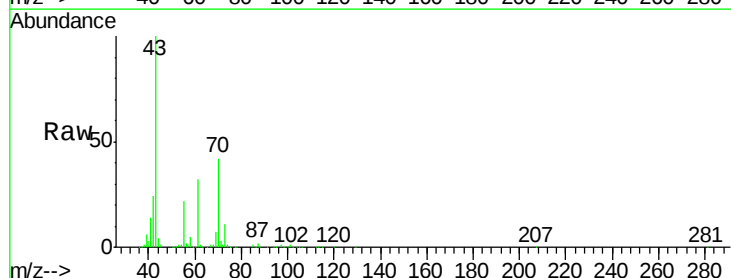
Ion Ratio Lower Upper

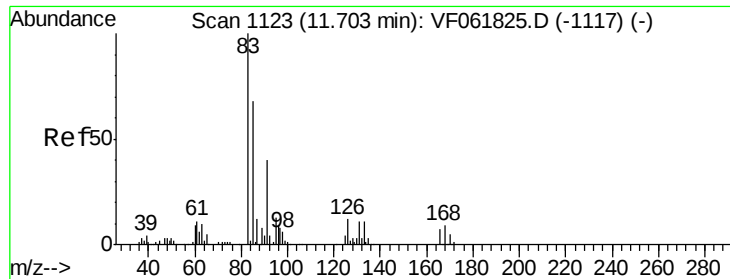
43 100

70 42.4 31.5 47.3

55 22.3 16.7 25.1

61 32.4 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 63.457 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

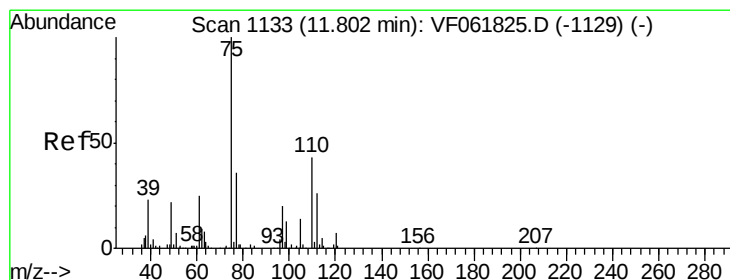
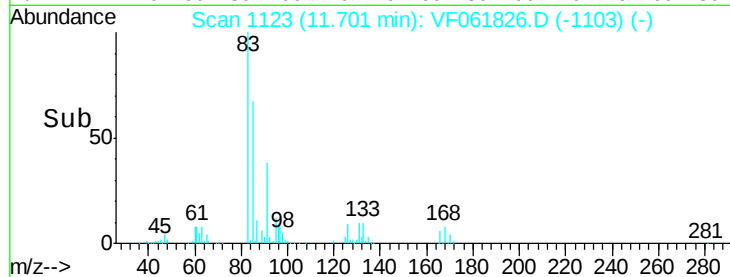
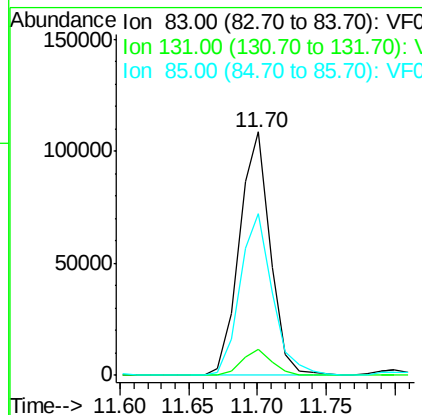
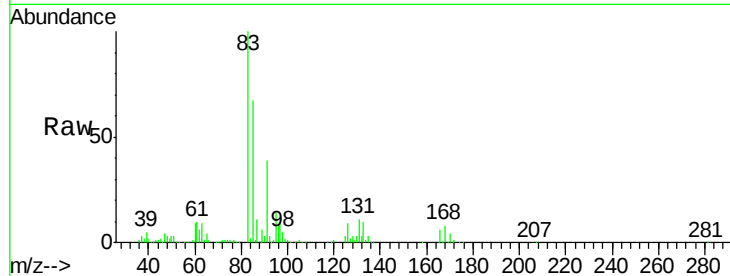
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	170188
Ion Ratio		Lower	Upper
83	100		
131	10.6	4.4	13.2
85	66.6	31.5	94.5

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#76

1,2,3-Trichloropropane

Concen: 64.774 ug/l

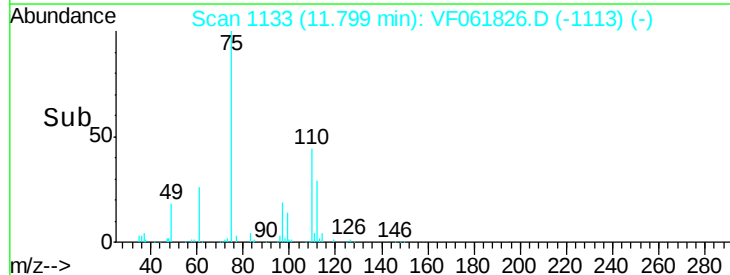
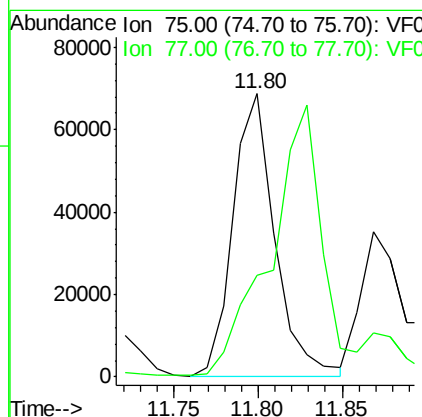
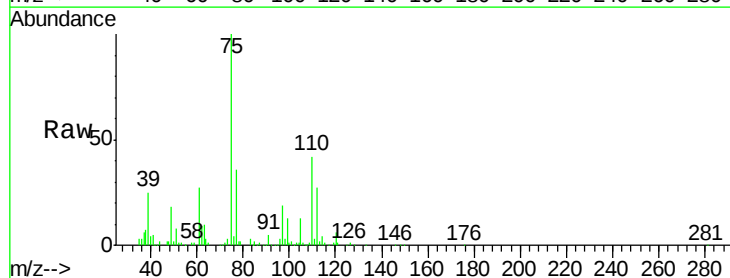
RT: 11.80 min Scan# 1133

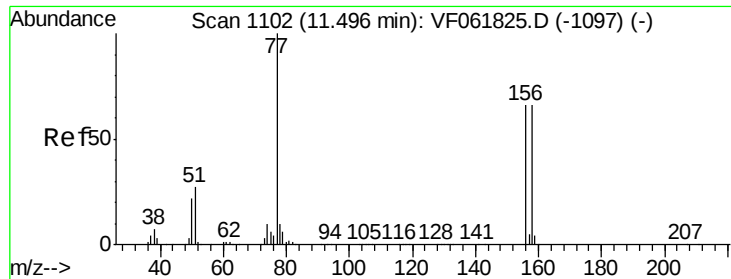
Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Tgt Ion:	75	Resp:	118109
Ion Ratio		Lower	Upper
75	100		
77	36.0	16.6	49.7





#77

Bromobenzene

Concen: 65.305 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

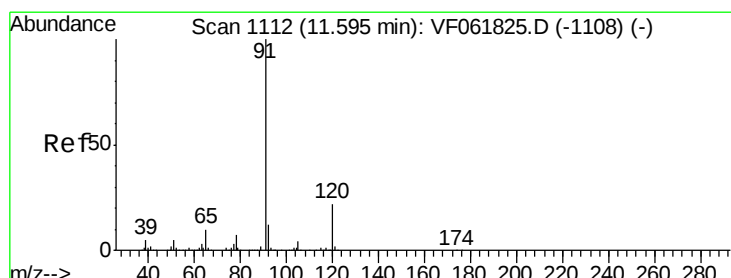
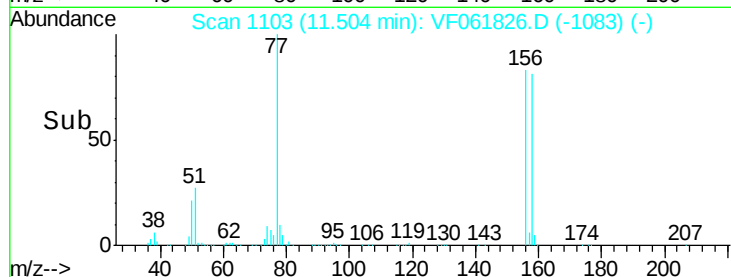
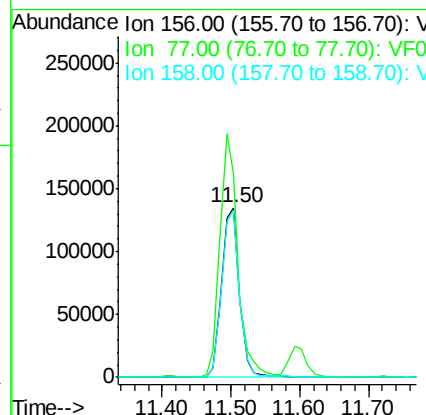
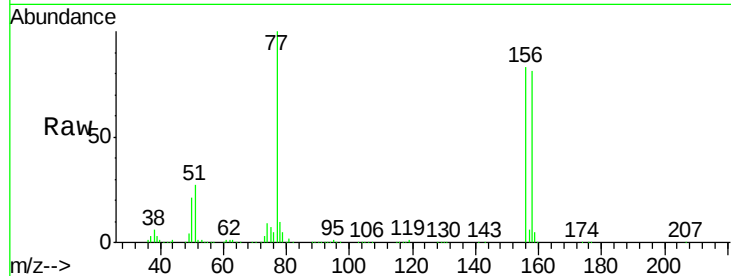
ClientSampleId :

VSTDIC075

Tot Ion	Ratio	Lower	Upper
156	100		
77	120.7	64.3	192.7
158	98.2	50.9	152.7

Manual Integrations
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#78

n-propylbenzene

Concen: 64.899 ug/l

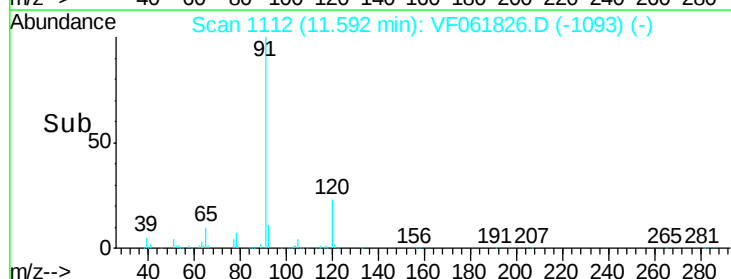
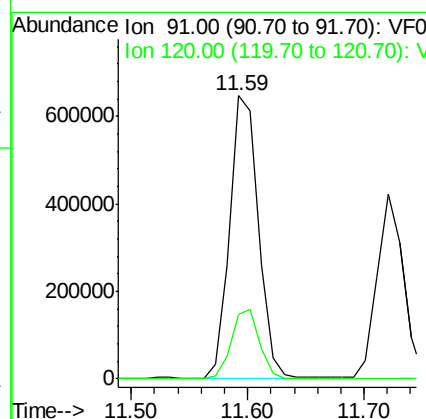
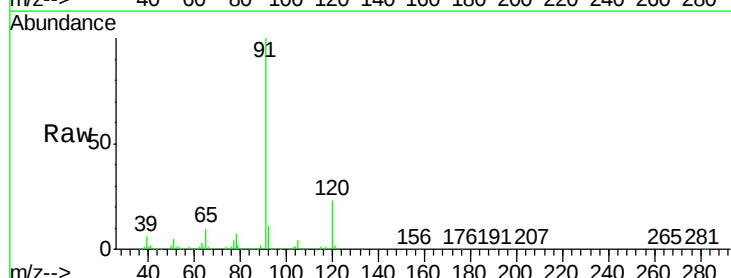
RT: 11.59 min Scan# 1112

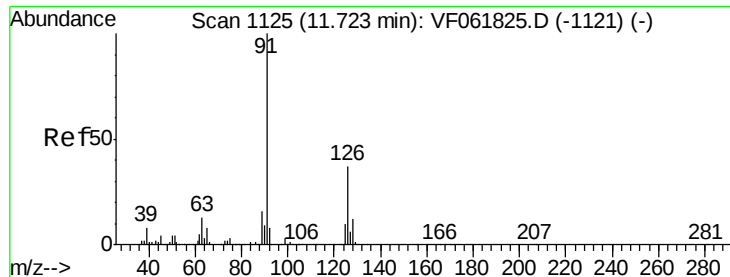
Delta R.T. -0.01 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.6	12.1	36.3





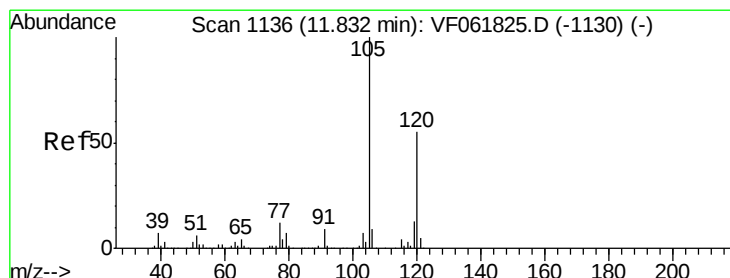
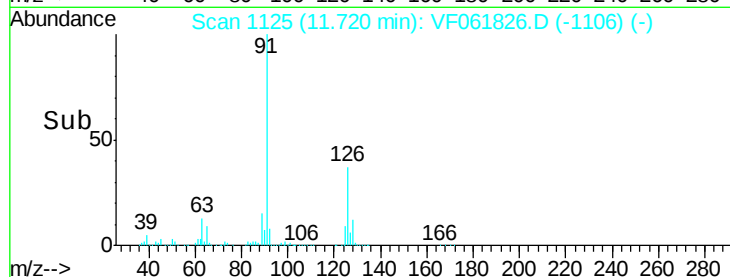
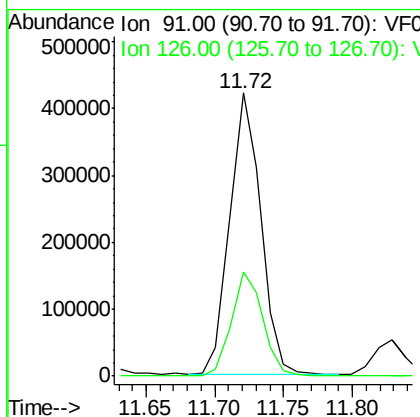
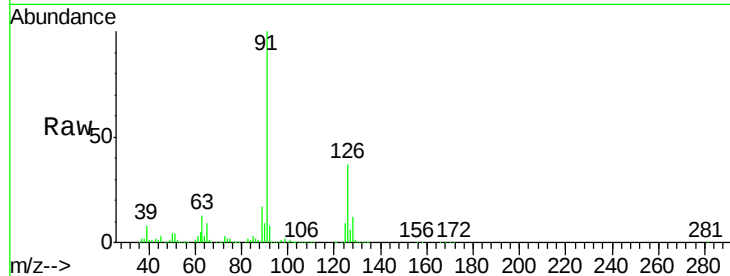
#79
 2-Chlorotoluene
 Concen: 68.737 ug/l
 RT: 11.72 min Scan# 1125
 Delta R.T. -0.01 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion: 91 Resp: 661302
 Ion Ratio Lower Upper
 91 100
 126 36.9 19.8 59.4

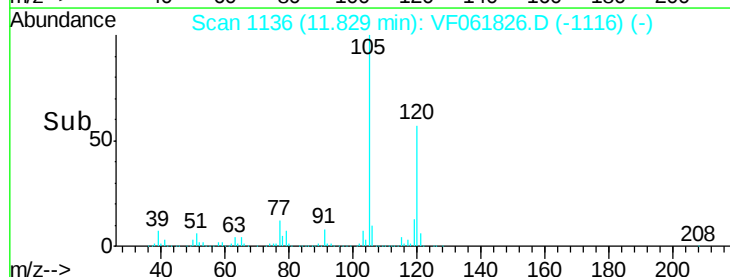
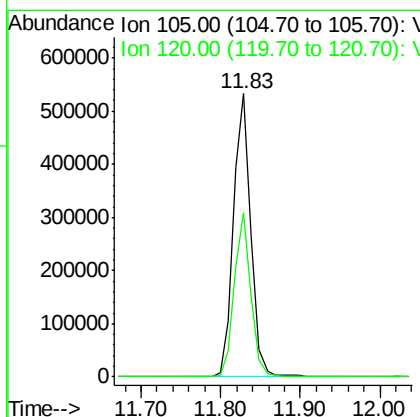
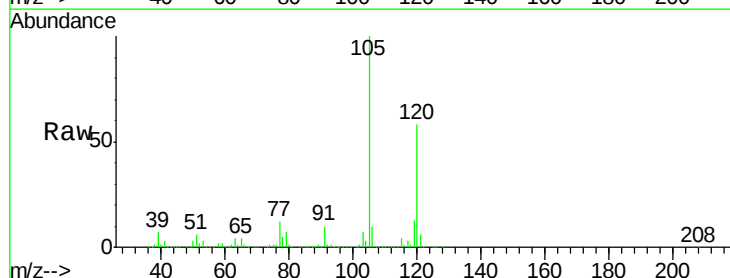
Manual Integrations
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#80
 1,3,5-Trimethylbenzene
 Concen: 68.368 ug/l
 RT: 11.83 min Scan# 1136
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Tgt Ion: 105 Resp: 817993
 Ion Ratio Lower Upper
 105 100
 120 57.9 27.9 83.6





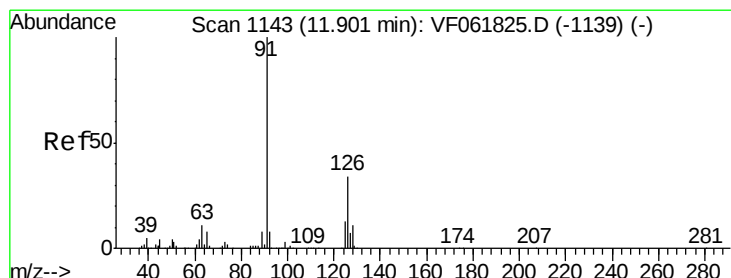
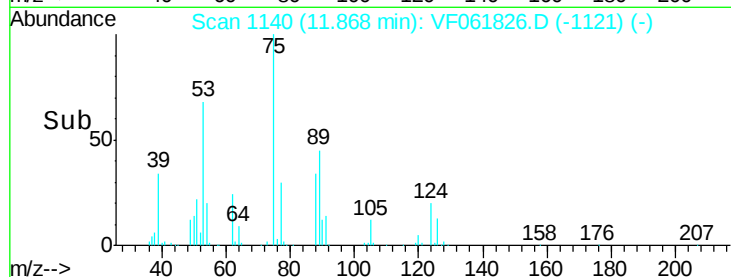
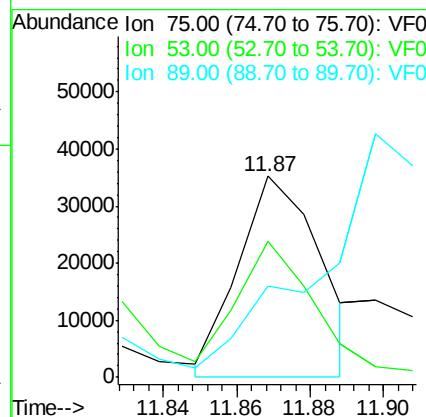
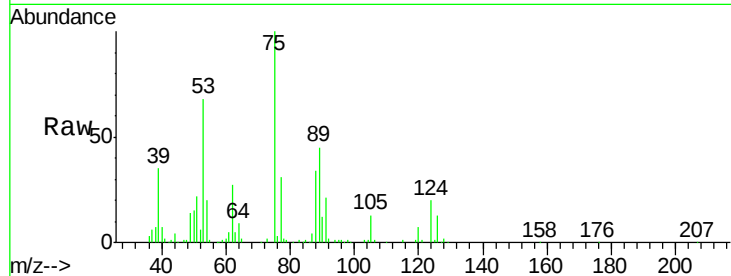
#81
trans-1,4-Dichloro-2-butene
Concen: 62.622 ug/l m
RT: 11.87 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
75	100		
53	67.7	53.7	80.5
89	45.2	41.6	62.4

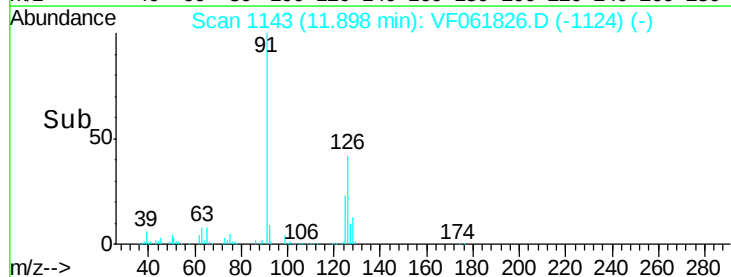
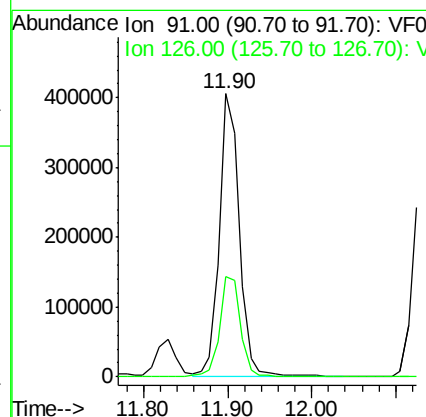
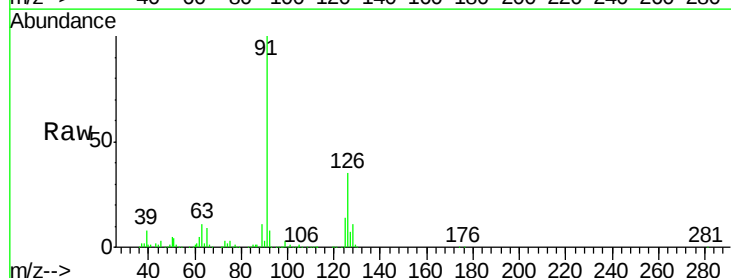
Manual Integrations
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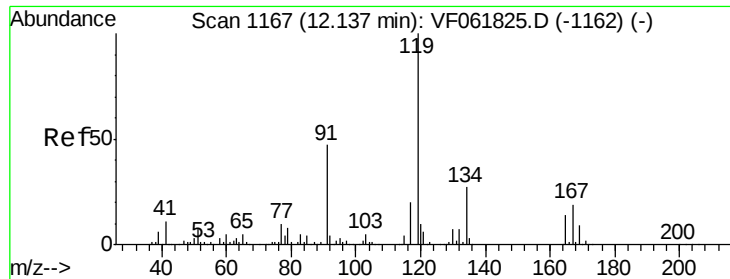
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#82
4-Chlorotoluene
Concen: 66.480 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.3	19.1	57.1





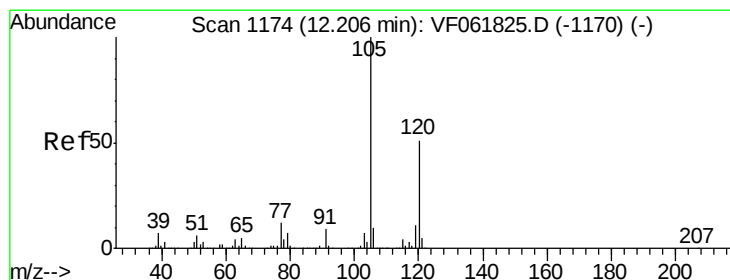
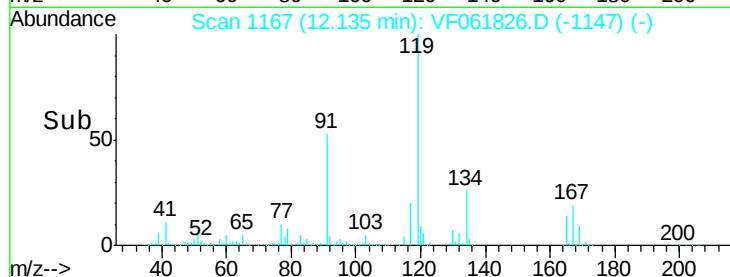
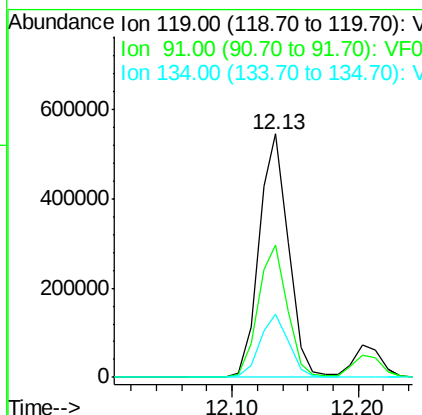
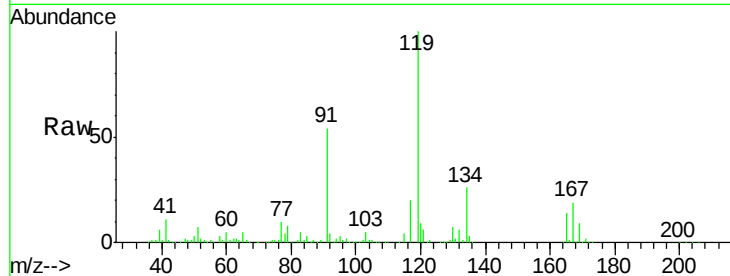
#83
 tert-Butylbenzene
 Concen: 66.537 ug/l
 RT: 12.13 min Scan# 1167
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
119	100	881754		
91	54.3	26.3	78.8	
134	26.1	12.9	38.7	

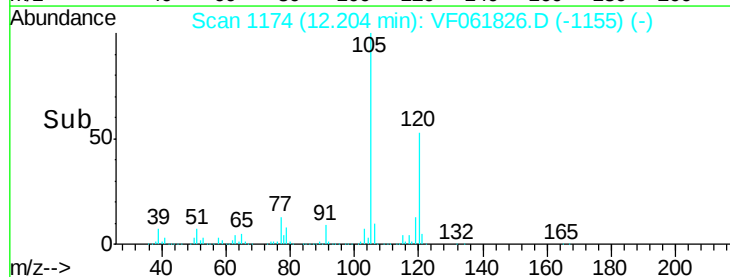
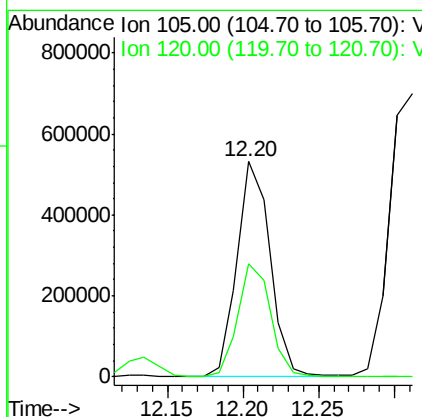
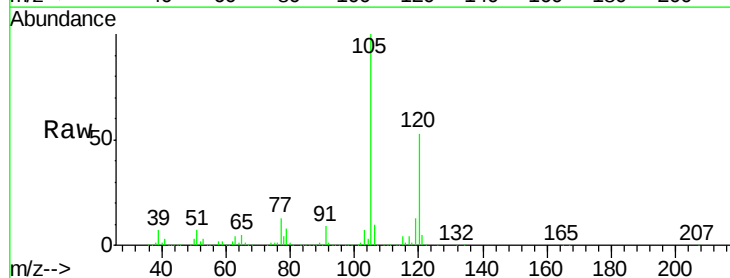
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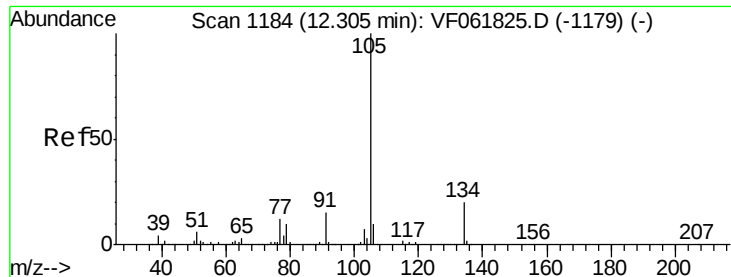
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#84
 1,2,4-Trimethylbenzene
 Concen: 68.081 ug/l
 RT: 12.20 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	809257		
120	52.6	26.1	78.3	





#85

sec-Butylbenzene

Concen: 66.245 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 1135249

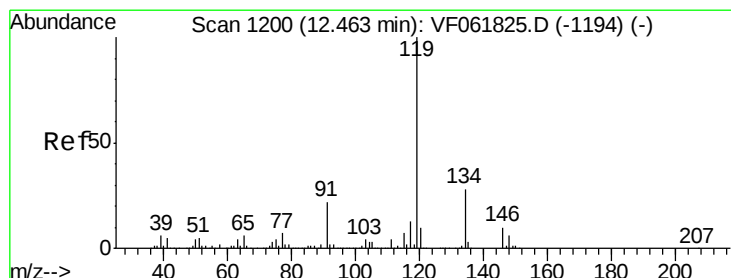
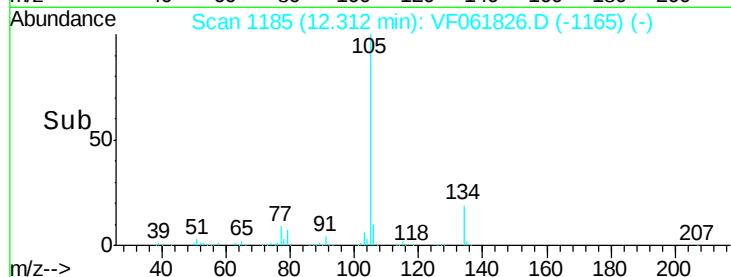
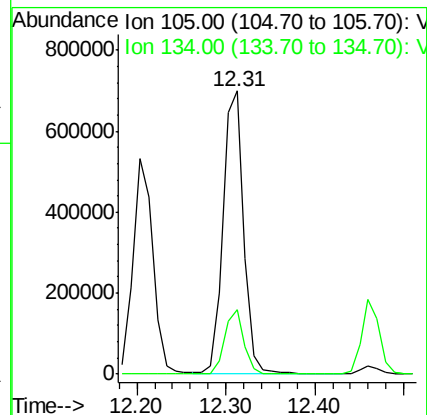
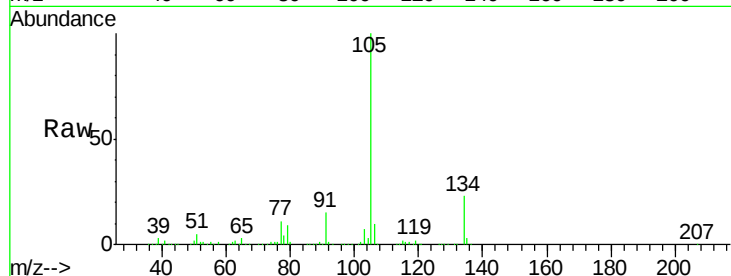
Ion Ratio Lower Upper

105 100

134 23.0 10.8 32.4

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 65.974 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VF061826.D

Acq: 4 Mar 2019 17:58

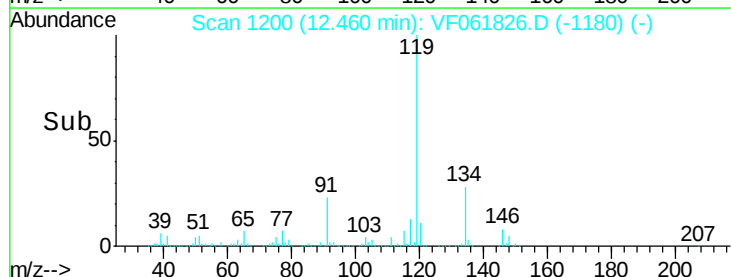
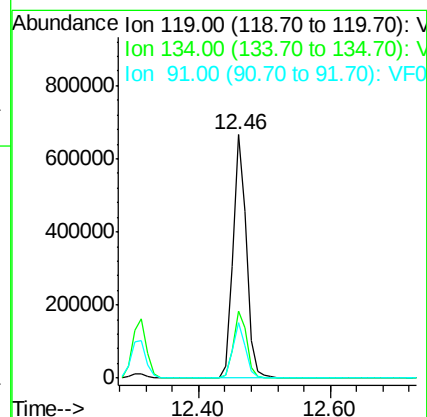
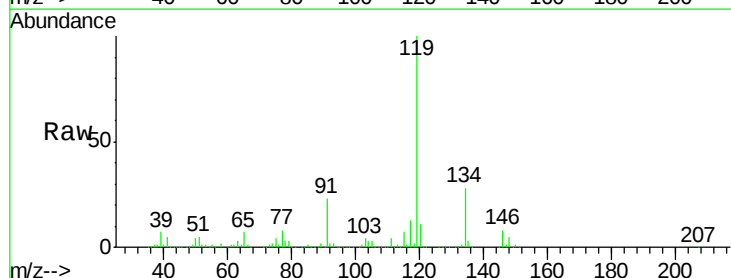
Tgt Ion:119 Resp: 948854

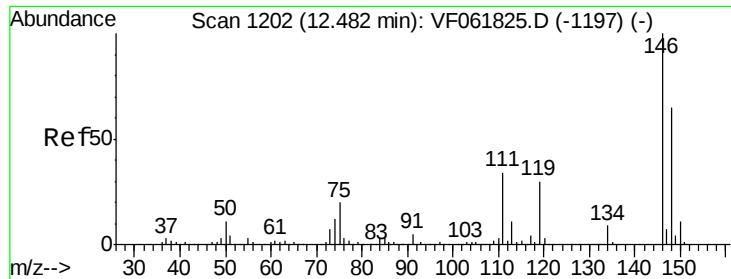
Ion Ratio Lower Upper

119 100

134 27.6 13.7 41.1

91 22.7 10.8 32.4





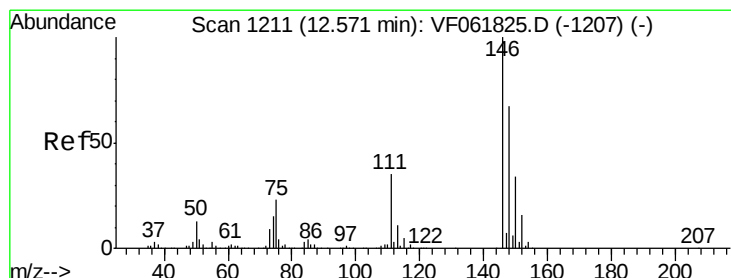
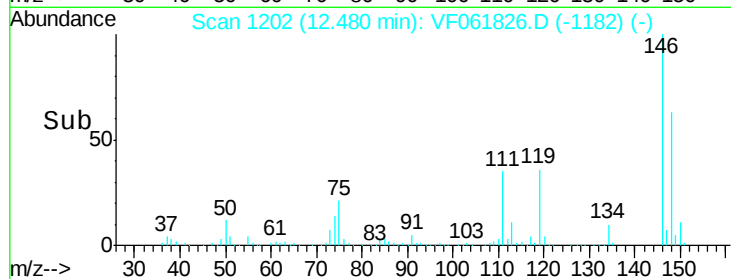
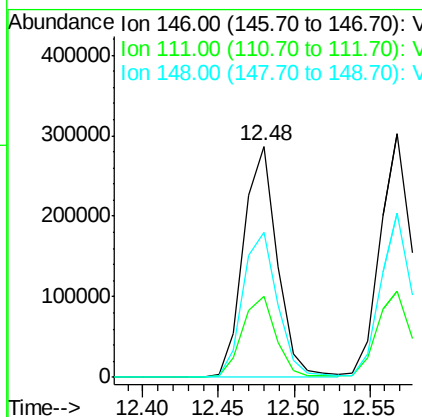
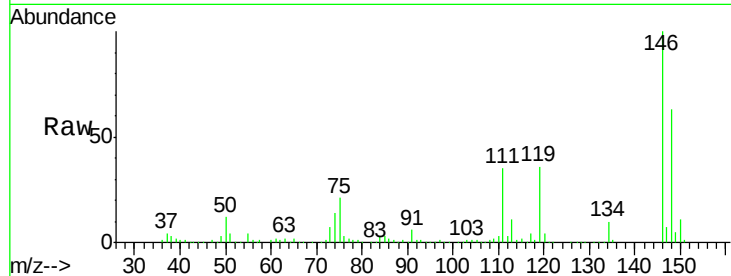
#87
 1,3-Dichlorobenzene
 Concen: 61.869 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.1	17.5	52.6
148	63.0	31.4	94.3

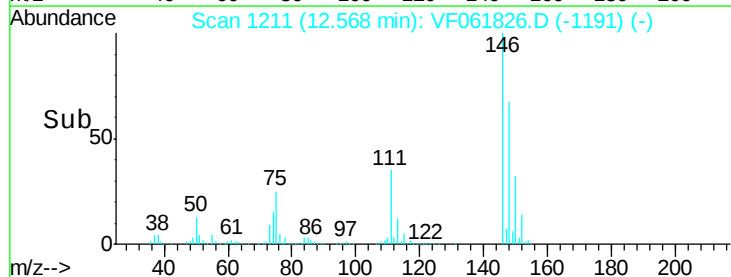
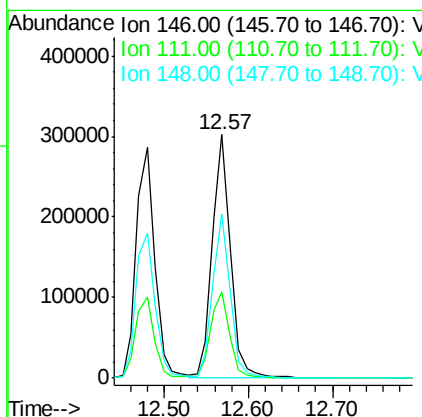
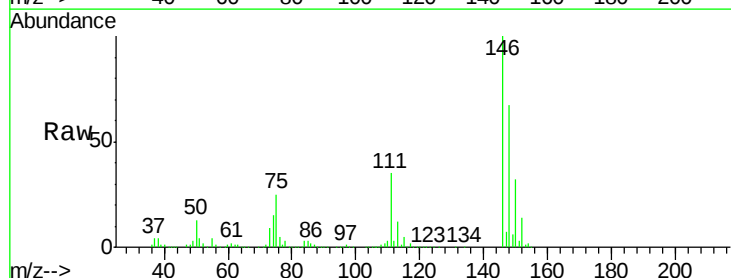
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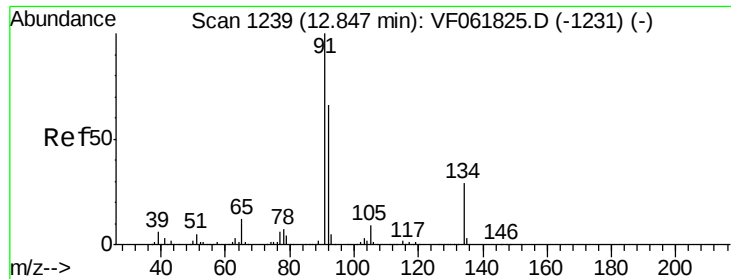
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#88
 1,4-Dichlorobenzene
 Concen: 65.977 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.4	18.4	55.4
148	67.5	32.2	96.6





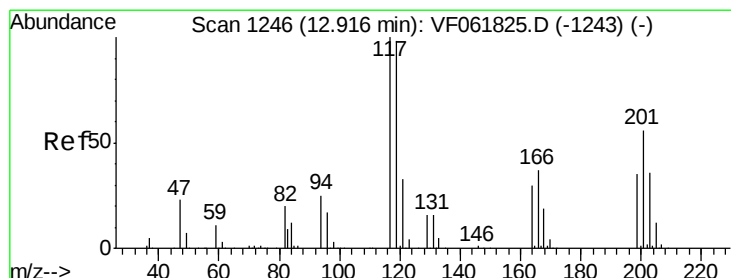
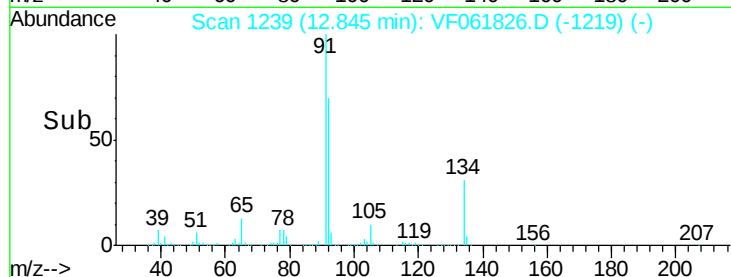
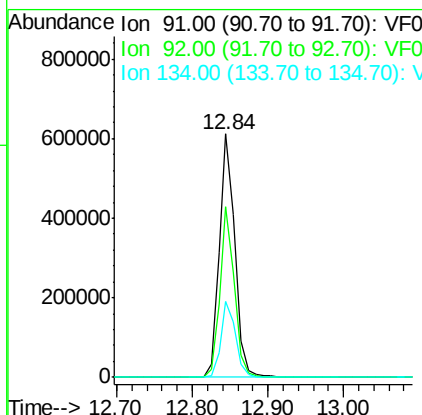
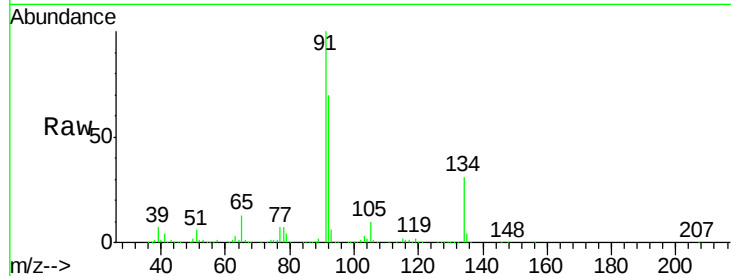
#89
n-Butylbenzene
Concen: 64.896 ug/l
RT: 12.84 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
91	100		
92	70.0	31.4	94.3
134	31.2	12.3	36.9

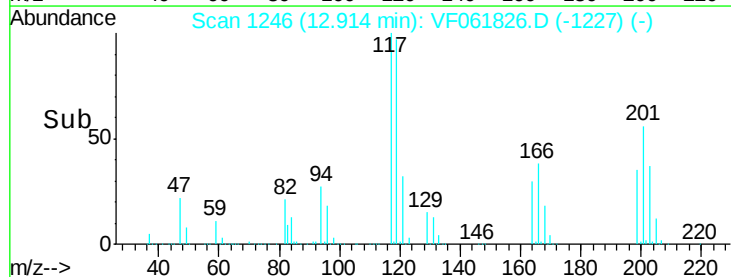
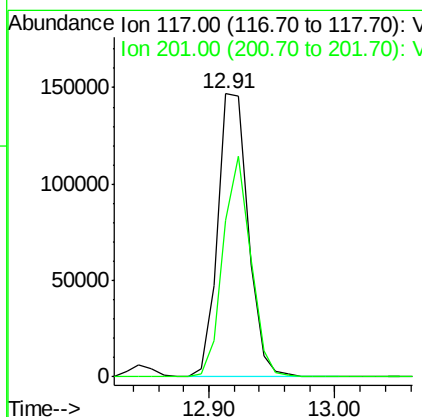
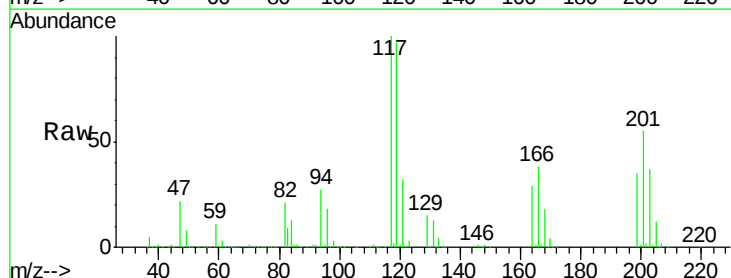
Manual Integrations
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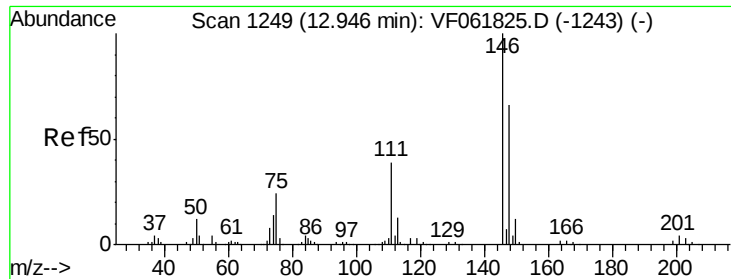
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#90
Hexachloroethane
Concen: 73.662 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Lower	Upper
117	100		
201	55.3	36.2	108.6





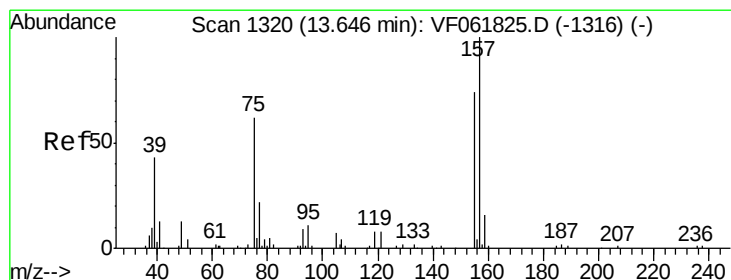
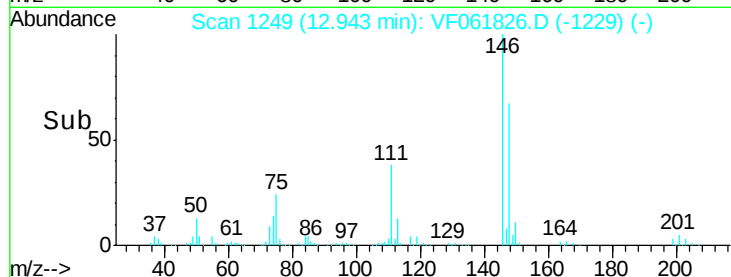
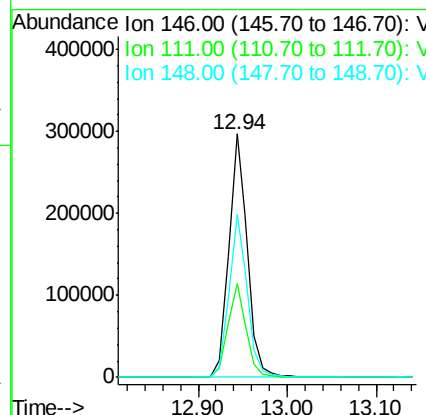
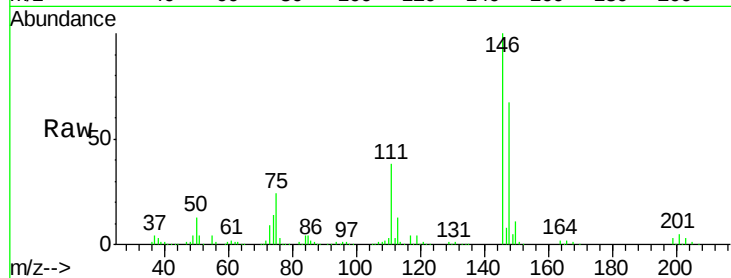
#91
 1,2-Dichlorobenzene
 Concen: 63.543 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
146	100	435755		
111	38.3	20.2	60.5	
148	66.9	32.3	96.9	

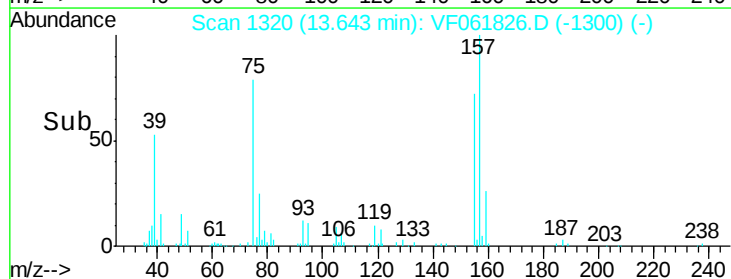
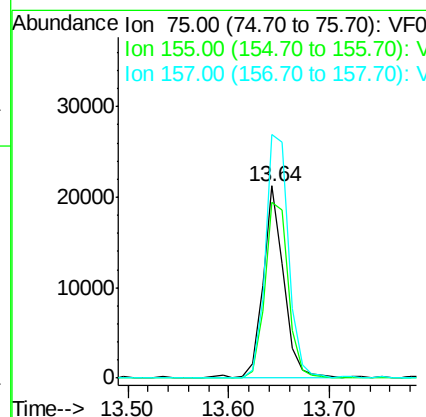
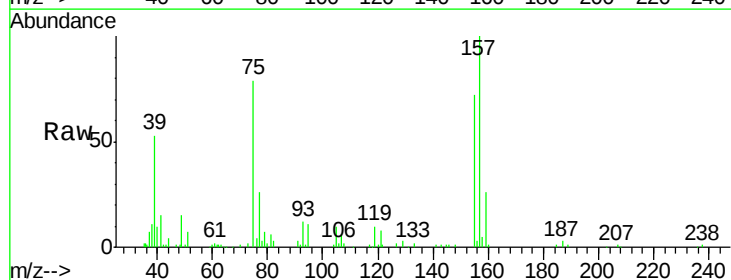
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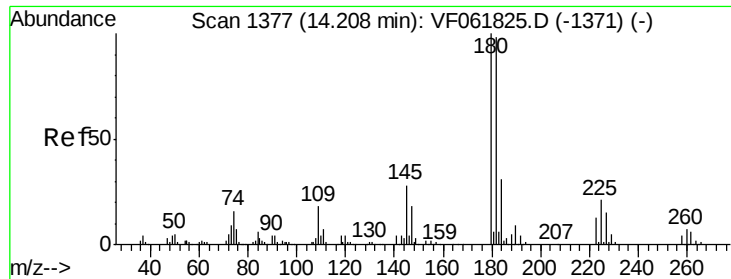
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 71.929 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	30585		
155	91.6	48.9	146.8	
157	126.7	58.3	174.8	





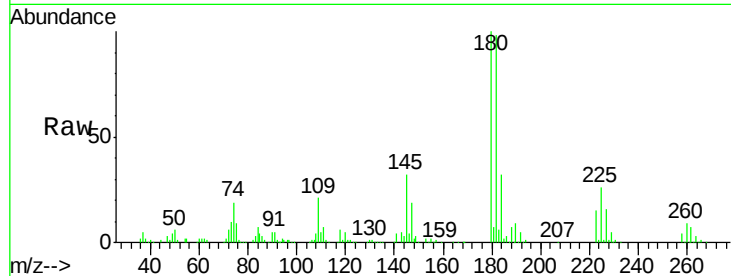
#93
 1,2,4-Trichlorobenzene
 Concen: 59.953 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

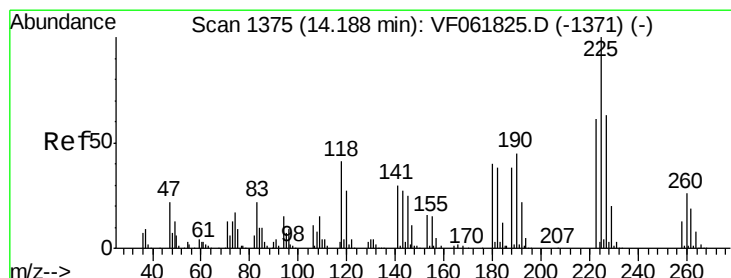
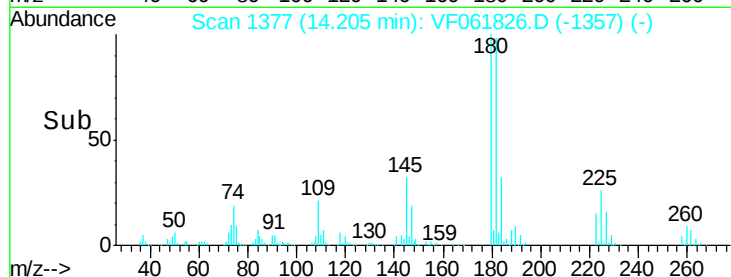
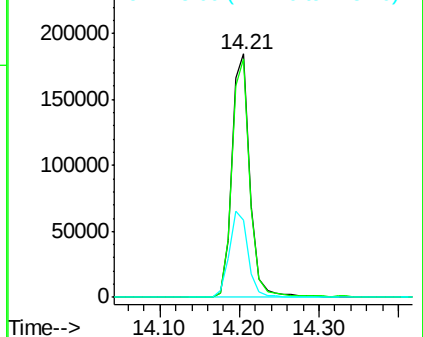
Tot Ion	Ratio	Resp	Lower	Upper
180	100	294694		
182	97.9	48.6	145.9	
145	31.9	15.3	45.9	

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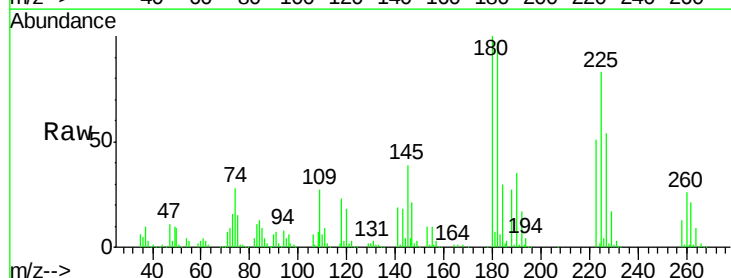


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

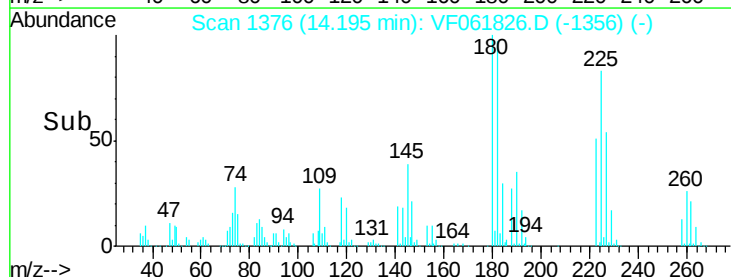
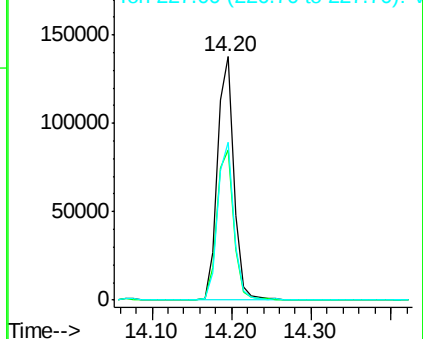


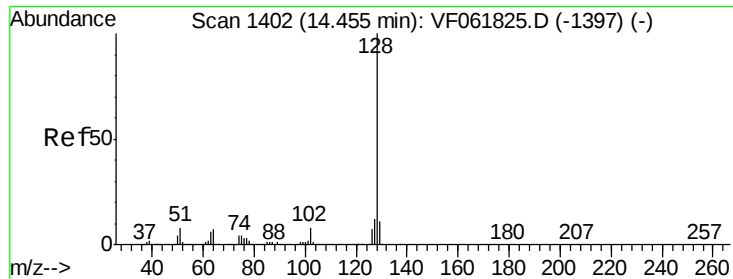
#94
 Hexachlorobutadiene
 Concen: 66.655 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061826.D
 Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	202347		
223	61.5	30.9	92.7	
227	65.0	32.1	96.3	



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





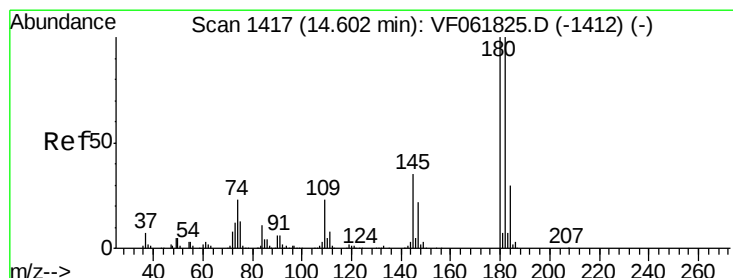
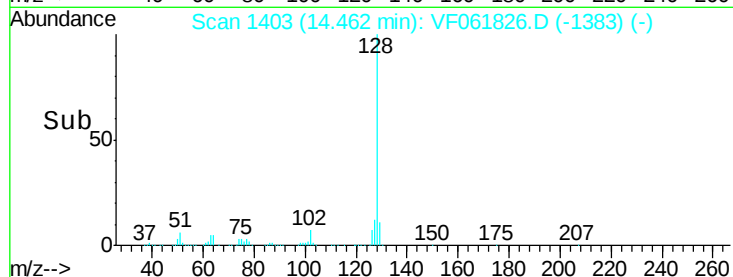
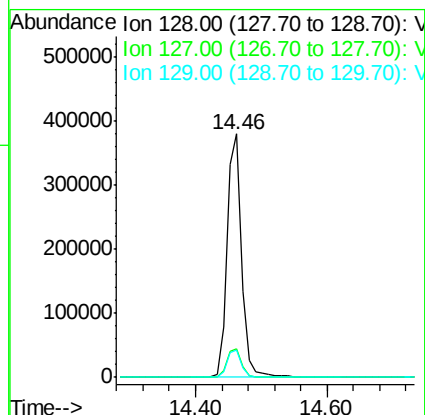
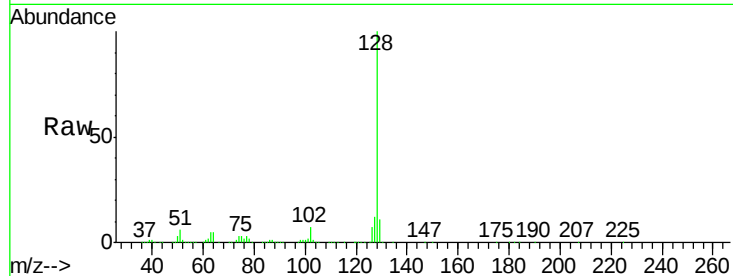
#95
Naphthalene
Concen: 68.389 ug/l
RT: 14.46 min Scan# 1403
Delta R.T. -0.00 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
128	100	588157		
127	11.8		9.8	14.6
129	11.3		9.4	14.2

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#96
1,2,3-Trichlorobenzene
Concen: 66.395 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.01 min
Lab File: VF061826.D
Acq: 4 Mar 2019 17:58

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	299547		
182	97.2		49.0	147.2
145	34.3		15.4	46.1

