

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062081.D
 Acq On : 22 Mar 2019 14:12
 Operator : VA/AP
 Sample : VSTDICV050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ICSVF032219

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:14 AM

Quant Time: Mar 22 14:34:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 14:15:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	304387	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.63	114	469614	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	405651	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	204340	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.88	65	110054	48.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.22%	
35) Dibromofluoromethane	4.15	113	161387	50.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.60%	
50) Toluene-d8	7.59	98	515227	54.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.66%	
62) 4-Bromofluorobenzene	11.44	95	185430	50.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.30%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	193711	49.677	ug/l	94
3) Chloromethane	1.10	50	204891	50.216	ug/l	90
4) Vinyl Chloride	1.15	62	191243	50.673	ug/l	94
5) Bromomethane	1.34	94	137844	50.810	ug/l	98
6) Chloroethane	1.41	64	99076	52.148	ug/l	100
7) Trichlorofluoromethane	1.50	101	236428	54.007	ug/l	92
8) Diethyl Ether	1.64	74	53221	51.115	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.85	101	153107	49.237	ug/l	94
10) Methyl Iodide	1.93	142	291225m	50.228	ug/l	
11) Tert butyl alcohol	2.59	59	30341	243.561	ug/l #	86
12) 1,1-Dichloroethene	1.81	96	151932	51.782	ug/l	94
13) Acrolein	2.02	56	37498	249.752	ug/l	89
14) Allyl chloride	2.12	41	174778	55.794	ug/l	94
15) Acrylonitrile	2.96	53	112964	257.876	ug/l	99
16) Acetone	2.25	43	141604	297.171	ug/l	99
17) Carbon Disulfide	1.84	76	364026	41.507	ug/l #	95
18) Methyl Acetate	2.36	43	49868	49.106	ug/l	97
19) Methyl tert-butyl Ether	2.45	73	233252	50.300	ug/l	100
20) Methylene Chloride	2.20	84	139206m	49.837	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	146865	53.860	ug/l	90
22) Diisopropyl ether	2.83	45	417868	50.879	ug/l	96
23) Vinyl Acetate	3.21	43	903959	268.822	ug/l	99
24) 1,1-Dichloroethane	2.90	63	257305	52.242	ug/l	98
25) 2-Butanone	4.36	43	259736	261.102	ug/l	94
26) 2,2-Dichloropropane	3.63	77	104165	52.162	ug/l	98
27) cis-1,2-Dichloroethene	3.51	96	195269	52.199	ug/l	96
28) Bromochloromethane	3.75	49	99363	49.377	ug/l	93
29) Tetrahydrofuran	4.11	42	101015	233.555	ug/l	97
30) Chloroform	3.89	83	264652	50.845	ug/l	96
31) Cyclohexane	3.72	56	261200m	54.040	ug/l	
32) 1,1,1-Trichloroethane	4.13	97	166951	52.728	ug/l	95
36) 1,1-Dichloropropene	4.32	75	222619	49.769	ug/l	97
37) Ethyl Acetate	4.15	43	87033	44.521	ug/l	92
38) Carbon Tetrachloride	4.02	117	152785	50.115	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.49	83	277994	53.548	ug/l	96
40) Benzene	4.66	78	608092	50.711	ug/l	100
41) Methacrylonitrile	4.78	41	48929	47.305	ug/l	98
42) 1,2-Dichloroethane	4.98	62	141806	50.008	ug/l	96
43) Isopropyl Acetate	6.99	43	109384	46.204	ug/l #	98
44) Trichloroethene	5.54	130	183849	50.147	ug/l	100
45) 1,2-Dichloropropane	6.27	63	141669	49.533	ug/l	97
46) Dibromomethane	6.12	93	86321	49.362	ug/l	95
47) Bromodichloromethane	6.42	83	194232	50.144	ug/l #	97
48) Methyl methacrylate	6.75	41	66931	49.654	ug/l #	82
49) 1,4-Dioxane	6.73	88	11834	1000.522	ug/l #	76
51) 4-Methyl-2-Pentanone	8.29	43	385310	243.167	ug/l	96
52) Toluene	7.66	92	362339	52.169	ug/l	93
53) t-1,3-Dichloropropene	8.31	75	156363	51.423	ug/l	99
54) cis-1,3-Dichloropropene	7.33	75	225314	51.787	ug/l	97
55) 1,1,2-Trichloroethane	8.52	97	99239	50.303	ug/l	97
56) Ethyl methacrylate	8.64	69	116427	49.484	ug/l	99
57) 1,3-Dichloropropane	8.89	76	164161	50.136	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.32	63	94801	265.530	ug/l	98
59) 2-Hexanone	9.52	43	285884	246.169	ug/l	97
60) Dibromochloromethane	8.74	129	139004	50.683	ug/l	95
61) 1,2-Dibromoethane	9.02	107	107135	50.901	ug/l	96
64) Tetrachloroethene	8.18	164	153090	48.848	ug/l	96
65) Chlorobenzene	9.83	112	380022	50.069	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.97	131	149912	49.171	ug/l	97
67) Ethyl Benzene	9.93	91	680398	51.546	ug/l	99
68) m/p-Xylenes	10.16	106	494750	100.284	ug/l	98
69) o-Xylene	10.74	106	253300	49.022	ug/l	97
70) Styrene	10.81	104	387587	49.507	ug/l	98
71) Bromoform	10.80	173	74957	48.067	ug/l	96
73) Isopropylbenzene	11.15	105	759396	52.814	ug/l	99
74) N-amyl acetate	11.40	43	179954	52.524	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.72	83	125581	50.866	ug/l	95
76) 1,2,3-Trichloropropane	11.82	75	81002	46.621	ug/l	91
77) Bromobenzene	11.52	156	177009	50.388	ug/l	94
78) n-propylbenzene	11.61	91	840977	50.369	ug/l	97
79) 2-Chlorotoluene	11.74	91	493143	53.139	ug/l	97
80) 1,3,5-Trimethylbenzene	11.85	105	585177	49.478	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.89	75	49388	52.704	ug/l	93
82) 4-Chlorotoluene	11.92	91	479411	50.384	ug/l	96
83) tert-Butylbenzene	12.15	119	643740	51.995	ug/l	96
84) 1,2,4-Trimethylbenzene	12.22	105	567404	48.938	ug/l	97
85) sec-Butylbenzene	12.32	105	813725	50.805	ug/l	99
86) p-Isopropyltoluene	12.48	119	714302	51.477	ug/l	99
87) 1,3-Dichlorobenzene	12.50	146	325635	49.893	ug/l	96
88) 1,4-Dichlorobenzene	12.59	146	318891	50.072	ug/l	97
89) n-Butylbenzene	12.86	91	693036	52.349	ug/l	99
90) Hexachloroethane	12.93	117	169249	51.224	ug/l	87
91) 1,2-Dichlorobenzene	12.96	146	293723	47.928	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.66	75	17841	47.693	ug/l	87

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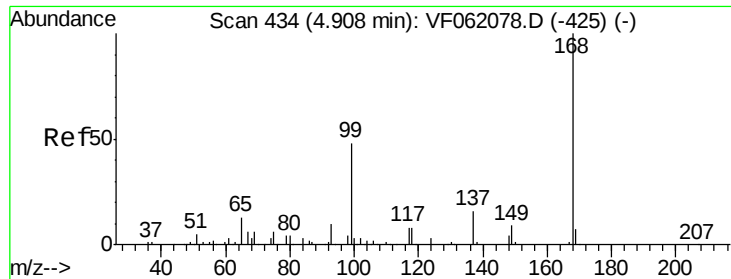
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	215931	50.555	ug/l	97
94) Hexachlorobutadiene	14.22	225	143994	50.703	ug/l	98
95) Naphthalene	14.47	128	394982	52.770	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	201159	50.314	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion:168 Resp: 304387

Ion Ratio Lower Upper

168 100

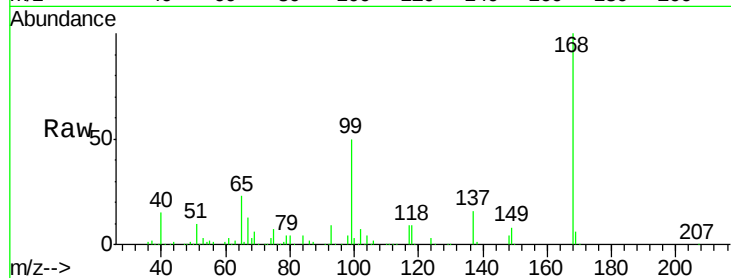
99 50.3 42.4 63.6

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

4.90

100000

80000

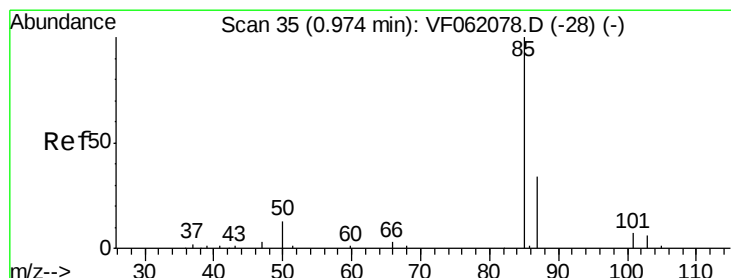
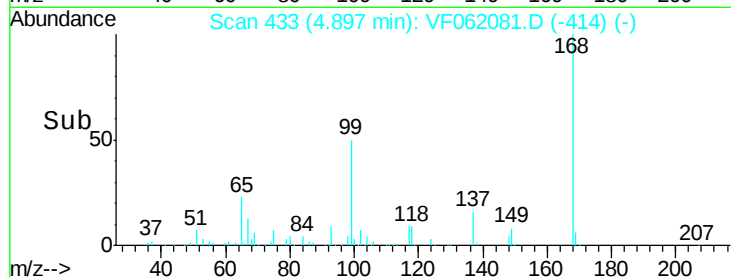
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 49.677 ug/l

RT: 0.97 min Scan# 35

Delta R.T. -0.00 min

Lab File: VF062081.D

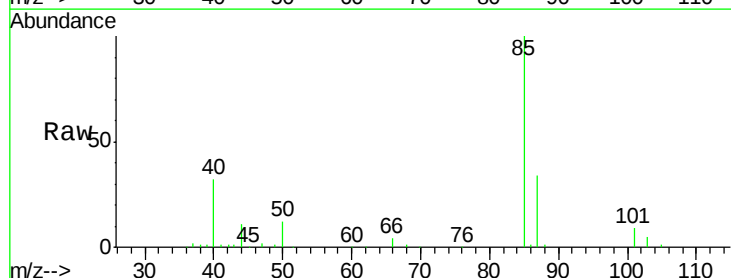
Acq: 22 Mar 2019 14:12

Tgt Ion: 85 Resp: 193711

Ion Ratio Lower Upper

85 100

87 34.2 15.4 46.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

60000

50000

40000

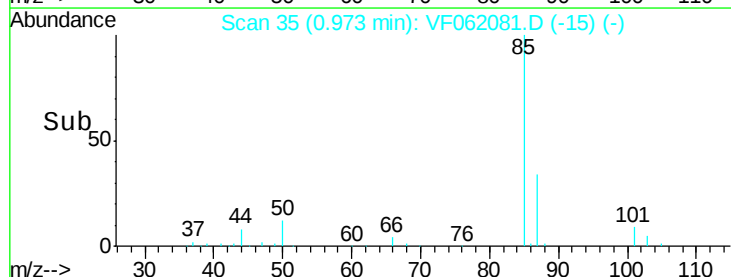
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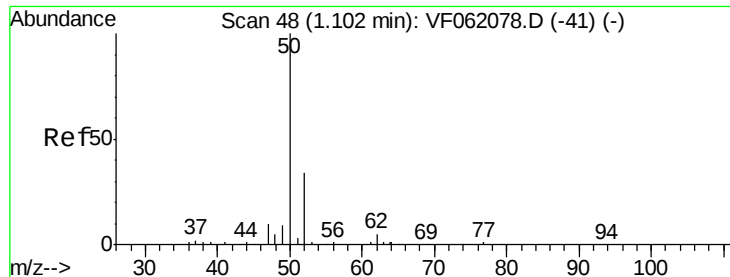
20000

10000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 50.216 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion: 50 Resp: 204891

Ion Ratio Lower Upper

50 100

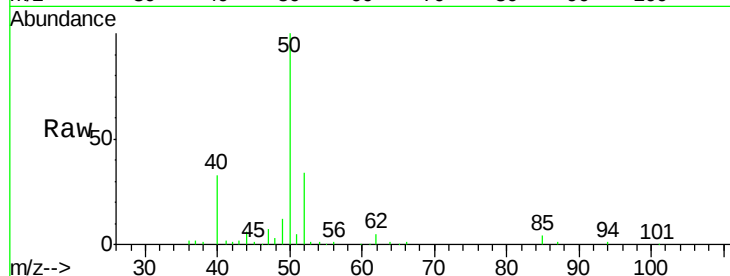
52 33.5 22.6 34.0

Manual Integrations

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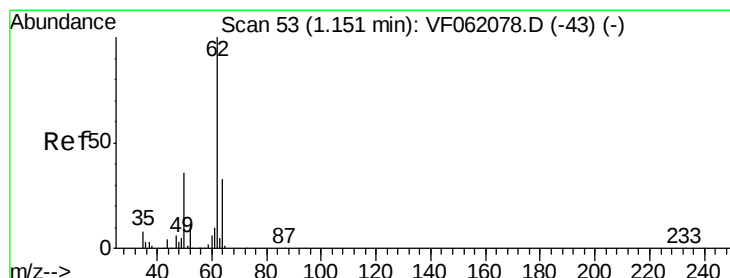
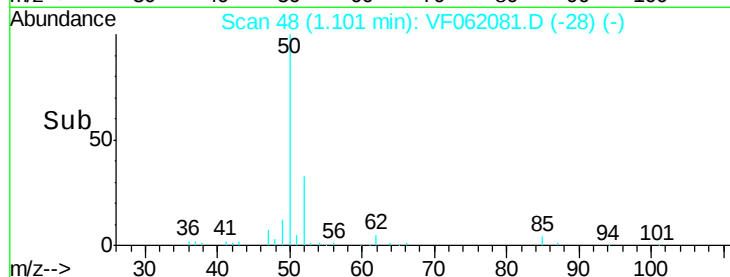
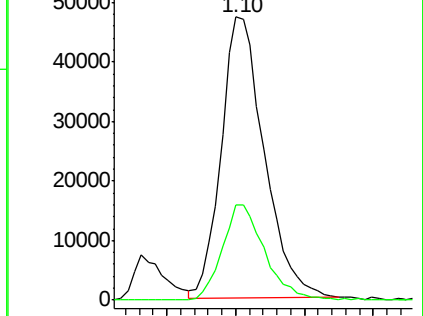
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 50.673 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF062081.D

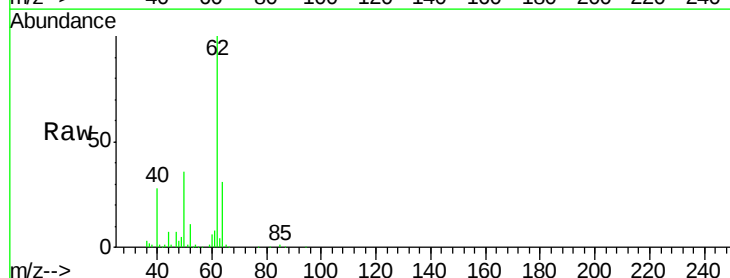
Acq: 22 Mar 2019 14:12

Tgt Ion: 62 Resp: 191243

Ion Ratio Lower Upper

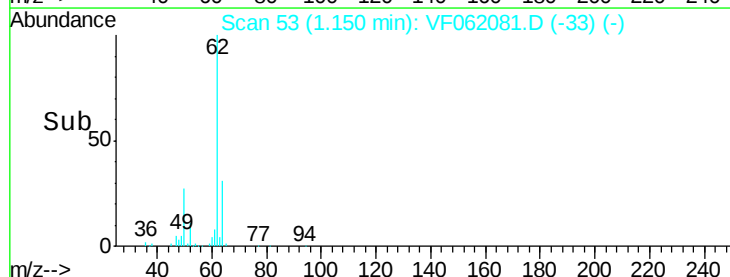
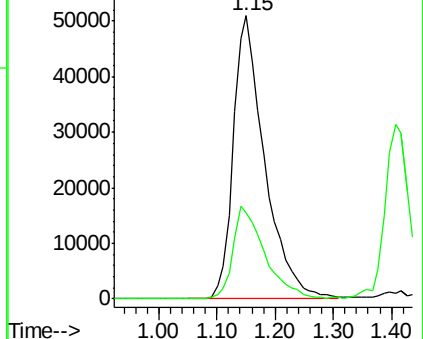
62 100

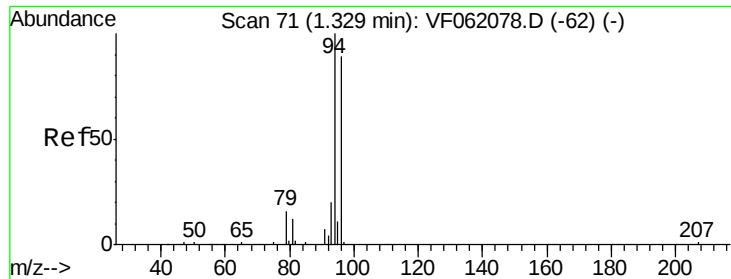
64 30.7 27.4 41.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 50.810 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.01 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion: 94 Resp: 137844

Ion Ratio Lower Upper

94 100

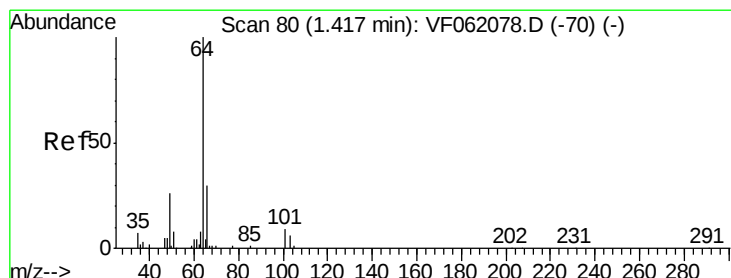
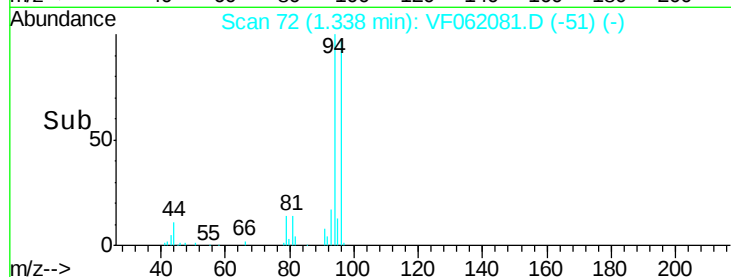
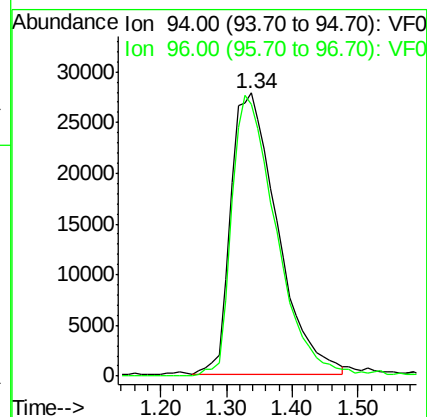
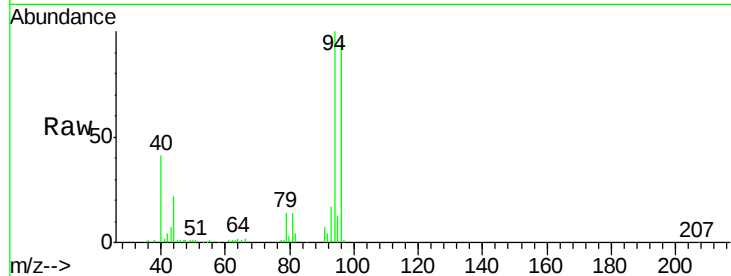
96 95.8 75.0 112.6

Manual Integrations

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#6

Chloroethane

Concen: 52.148 ug/l

RT: 1.41 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF062081.D

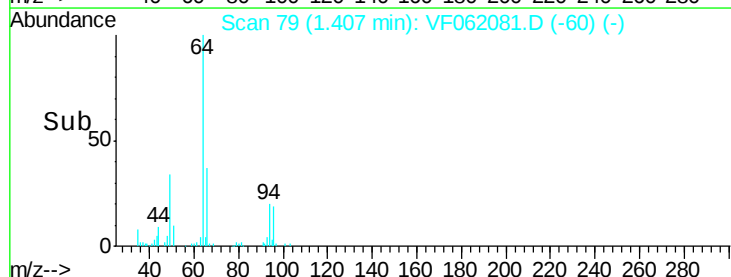
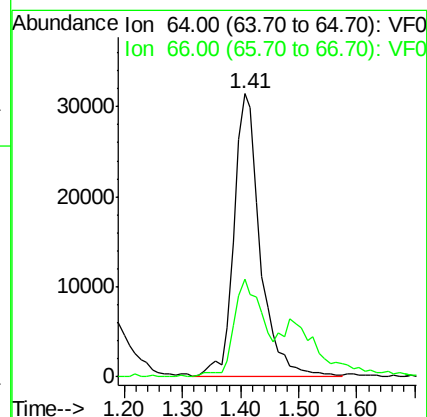
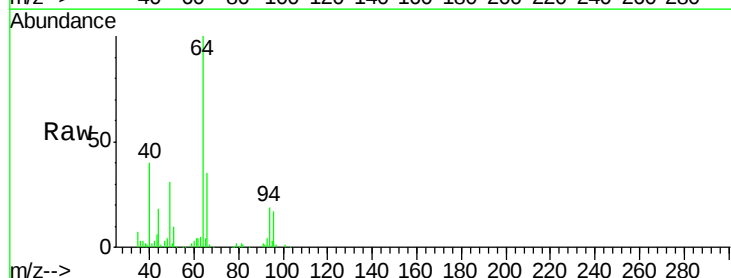
Acq: 22 Mar 2019 14:12

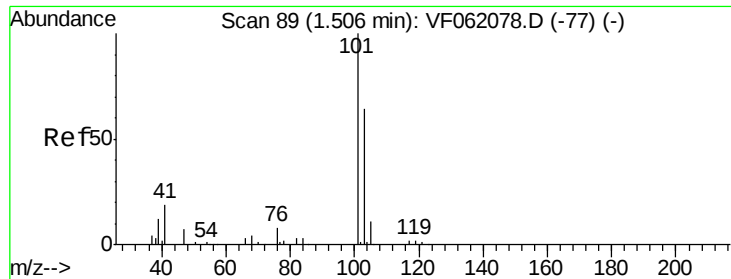
Tgt Ion: 64 Resp: 99076

Ion Ratio Lower Upper

64 100

66 34.7 27.6 41.4





#7

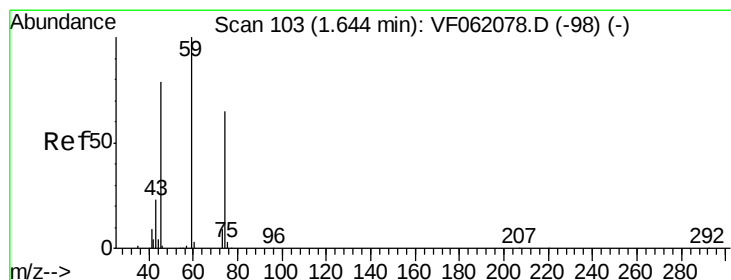
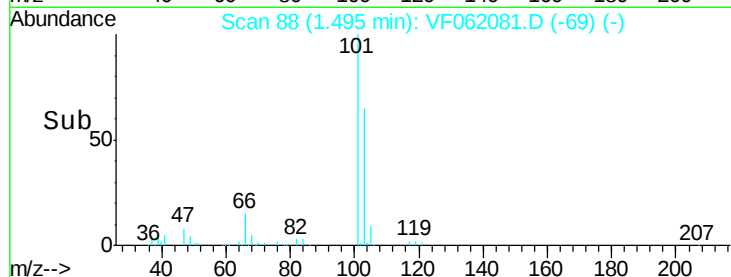
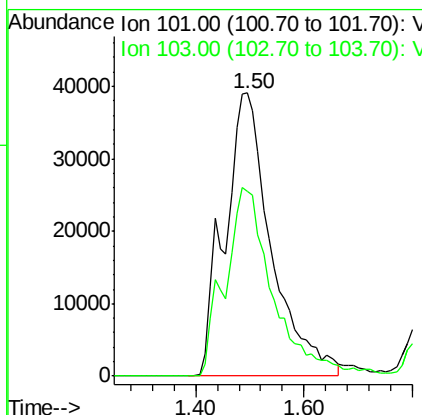
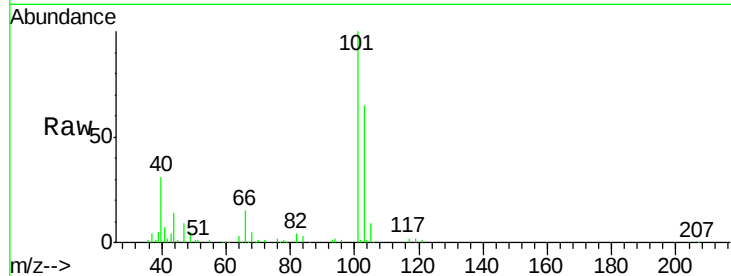
Trichlorofluoromethane
Concen: 54.007 ug/l
RT: 1.50 min Scan# 88
Delta R.T. -0.01 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		236428		
103	65.2	47.3	70.9		

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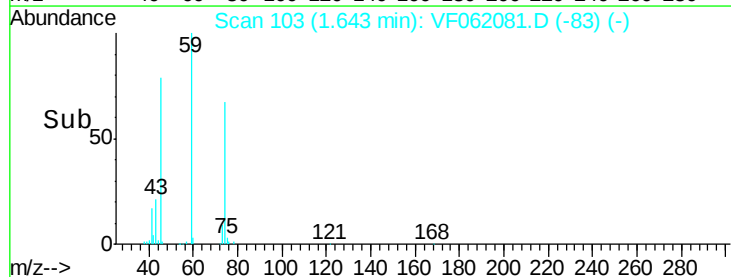
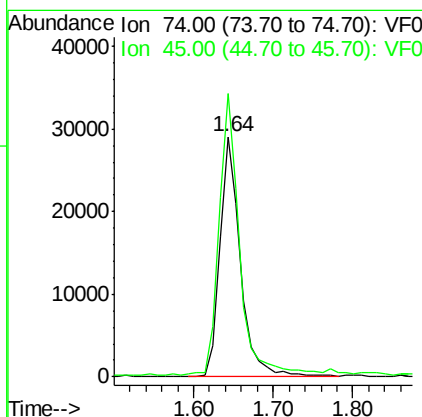
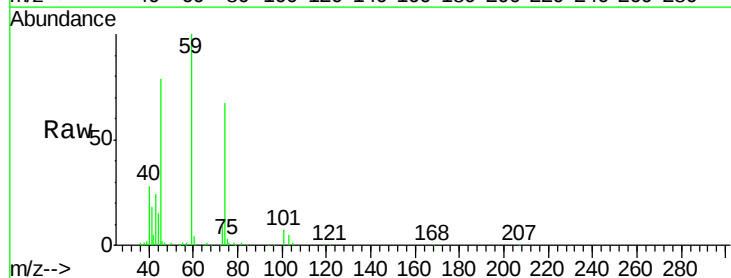
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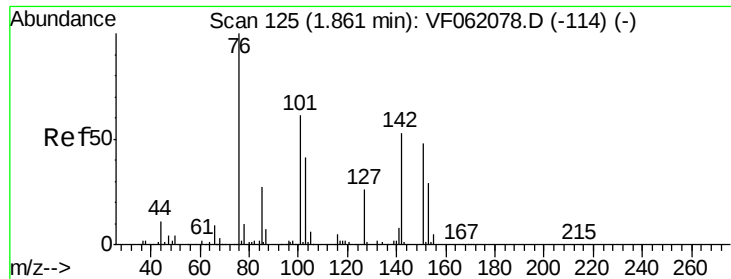


#8

Diethyl Ether
Concen: 51.115 ug/l
RT: 1.64 min Scan# 103
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		53221		
45	117.9	56.3	168.8		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.237 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.01 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

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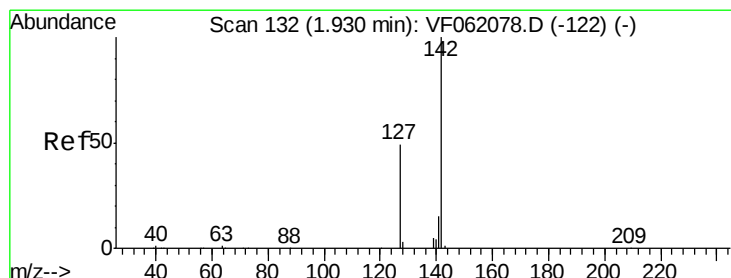
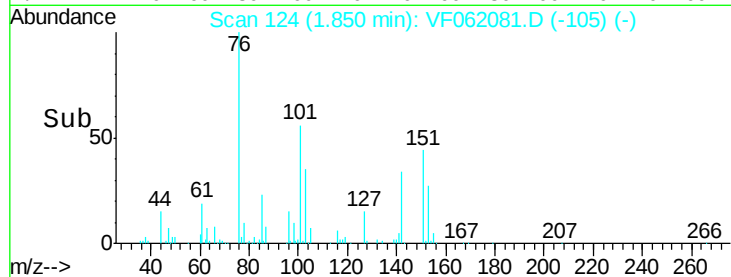
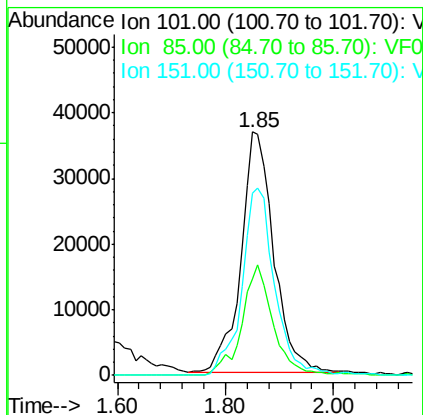
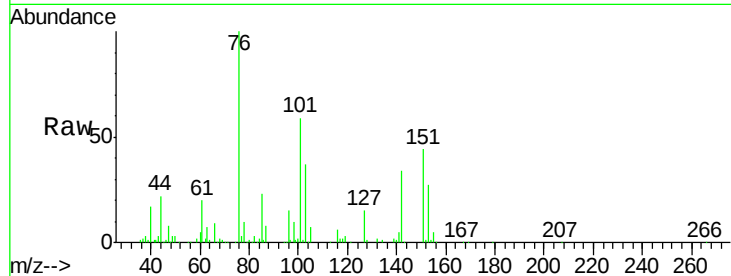
ClientSampleId :

ICVVF032219

Tot Ion:	101	Resp:	153107
Ion Ratio	Lower	Upper	
101	100		
85	39.7	36.8	55.2
151	74.6	62.2	93.2

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#10

Methyl Iodide

Concen: 50.228 ug/l m

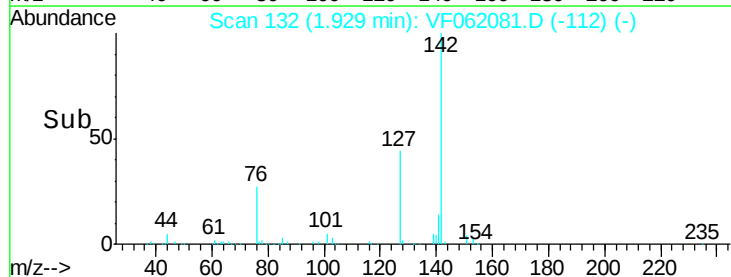
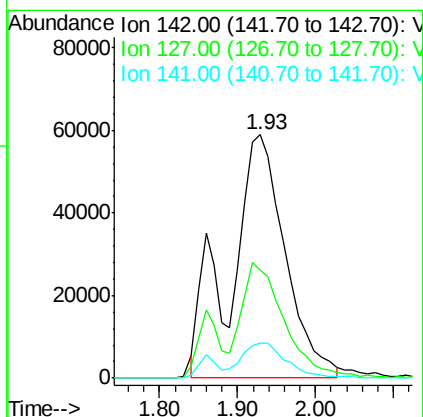
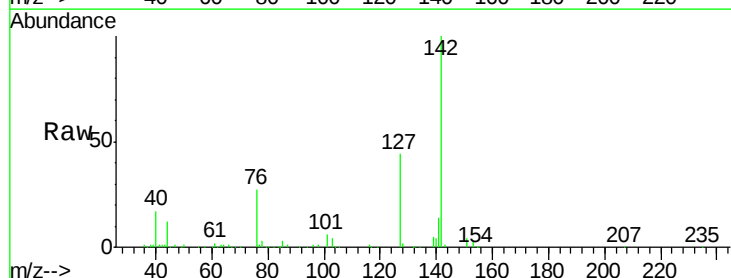
RT: 1.93 min Scan# 132

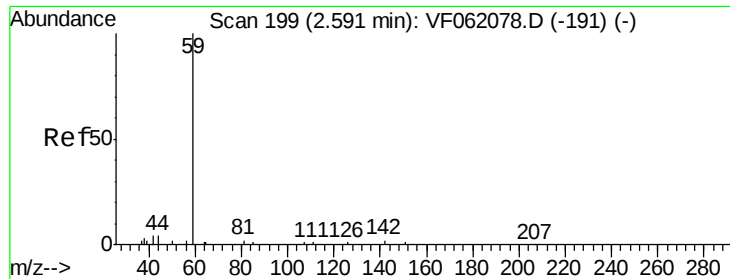
Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tgt Ion:	142	Resp:	291225
Ion Ratio	Lower	Upper	
142	100		
127	44.3	39.7	59.5
141	14.1	10.8	16.2





#11

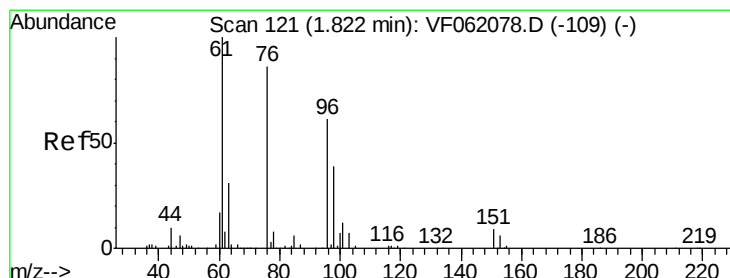
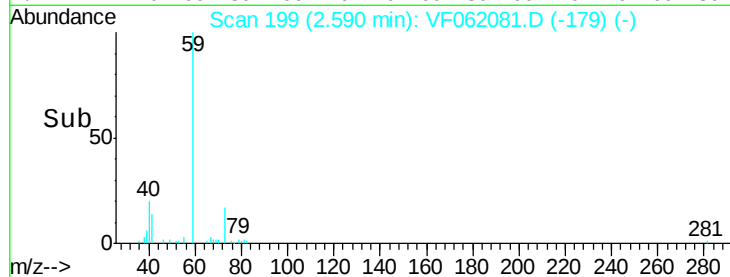
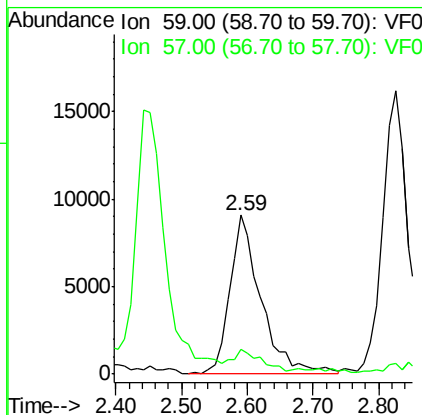
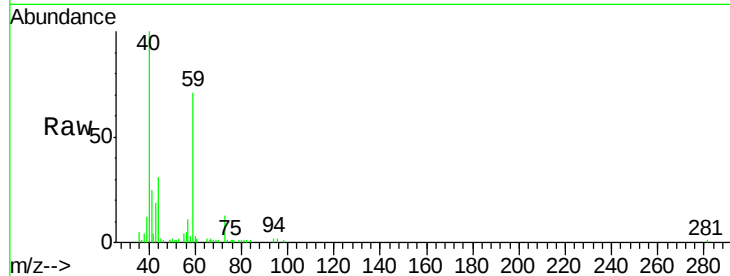
Tert butyl alcohol
 Concen: 243.561 ug/l
 RT: 2.59 min Scan# 199
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF032219

Tot Ion	59	Resp	30341
Ion Ratio	100	Lower	Upper
57	16.0	8.7	13.1#

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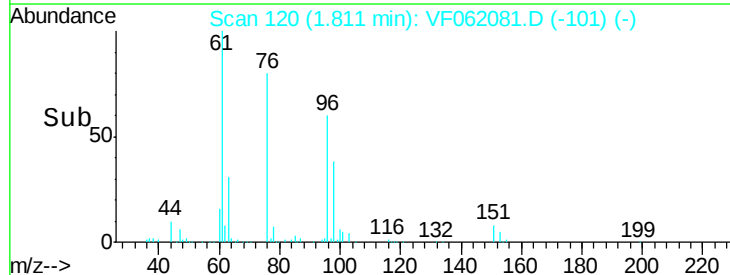
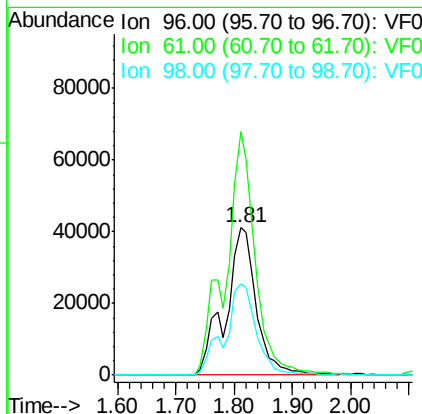
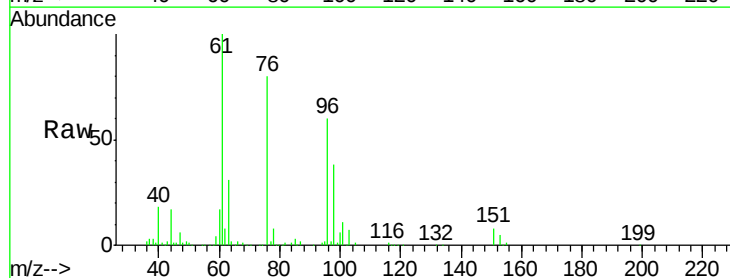
MMDadoda
 3/27/2019 11:57:14 AM

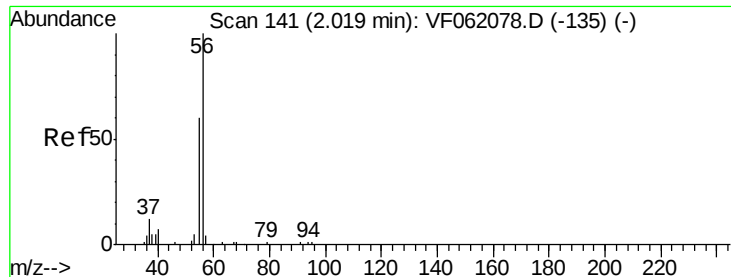


#12

1,1-Dichloroethene
 Concen: 51.782 ug/l
 RT: 1.81 min Scan# 120
 Delta R.T. -0.01 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Tgt Ion	96	Resp	151932
Ion Ratio	100	Lower	Upper
61	165.6	138.6	208.0
98	62.2	53.2	79.8





#13

Acrolein

Concen: 249.752 ug/l

RT: 2.02 min Scan# 141

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion: 56 Resp: 37498

Ion Ratio Lower Upper

56 100

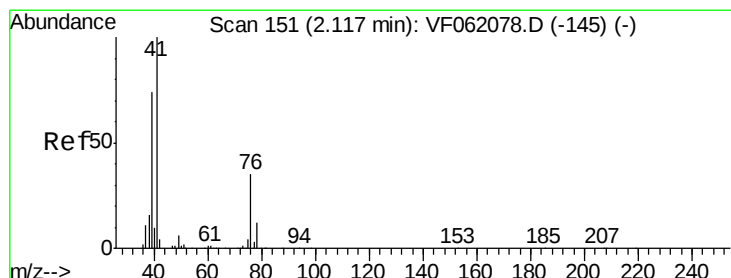
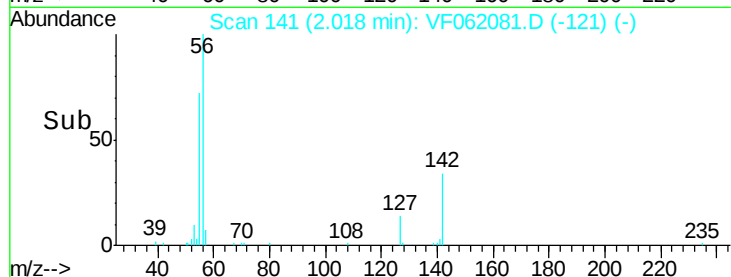
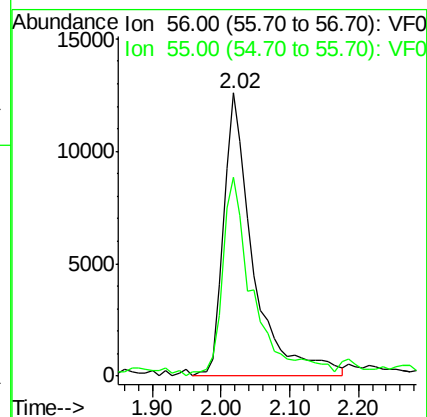
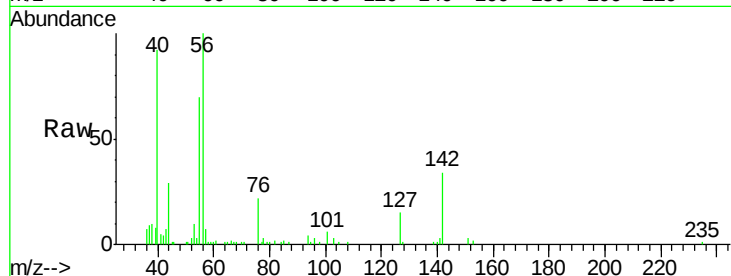
55 70.2 49.1 73.7

Manual Integrations

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#14

Allyl chloride

Concen: 55.794 ug/l

RT: 2.12 min Scan# 151

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

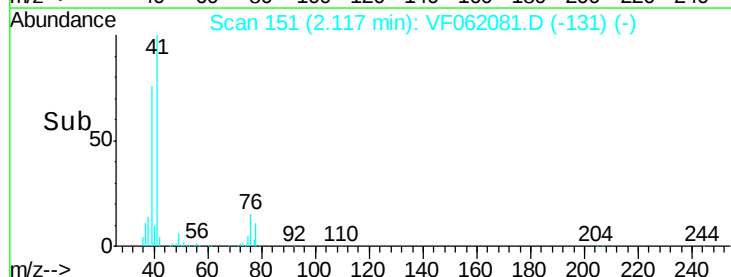
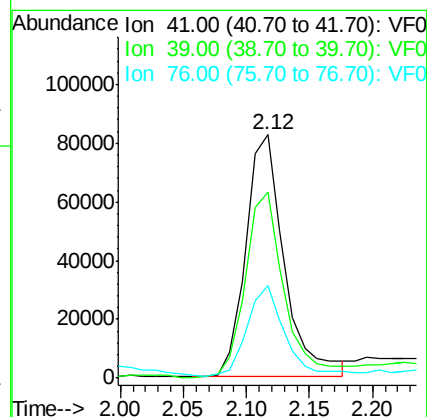
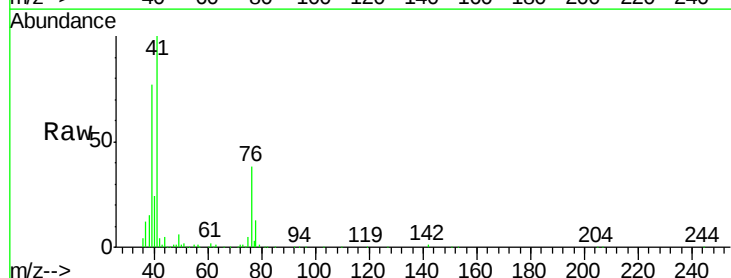
Tgt Ion: 41 Resp: 174778

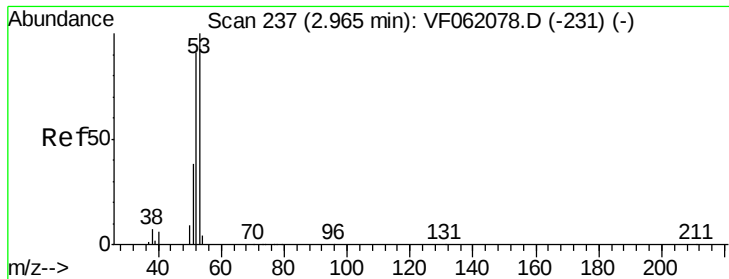
Ion Ratio Lower Upper

41 100

39 76.5 66.8 100.2

76 38.3 31.1 46.7





#15

Acrylonitrile

Concen: 257.876 ug/l

RT: 2.96 min Scan# 237

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

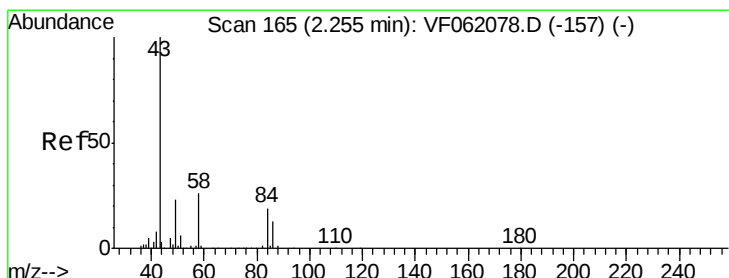
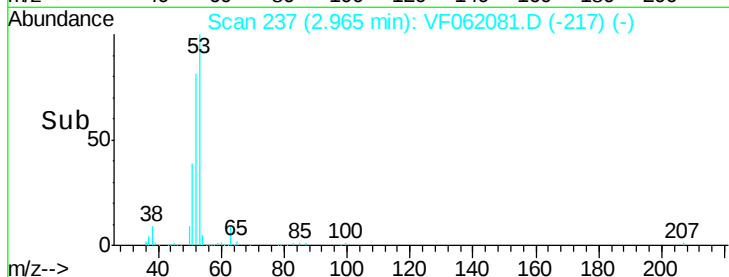
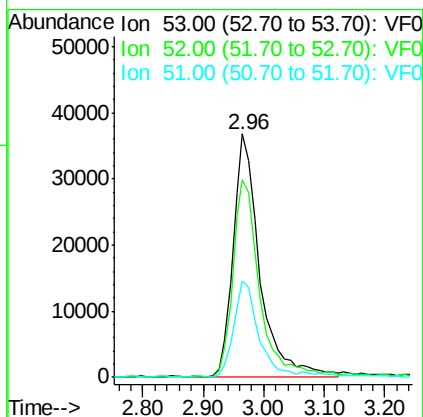
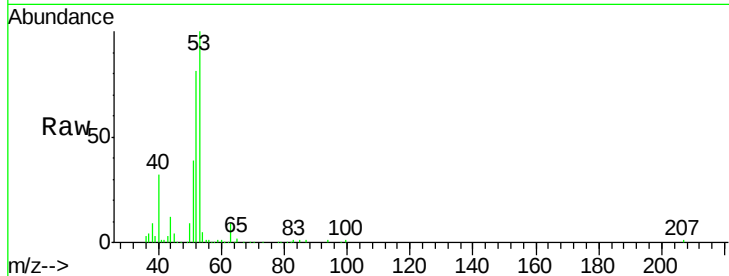
ClientSampleId :

ICVVF032219

Tot Ion:	53	Resp:	112964
Ion	Ratio	Lower	Upper
53	100		
52	81.2	64.4	96.6
51	39.4	30.3	45.5

Manual Integrations
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#16

Acetone

Concen: 297.171 ug/l

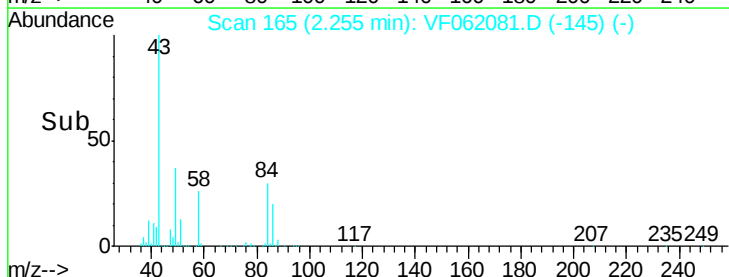
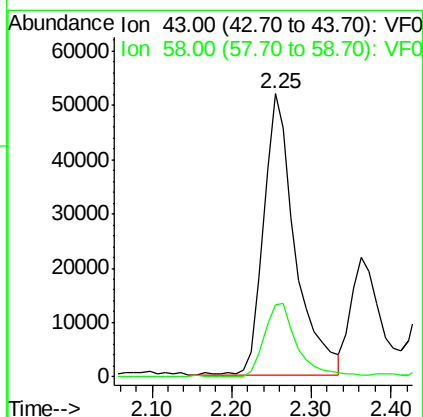
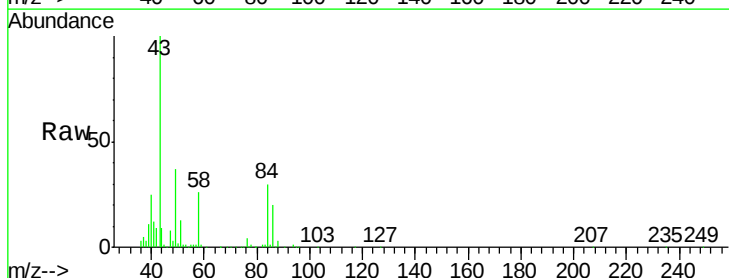
RT: 2.25 min Scan# 165

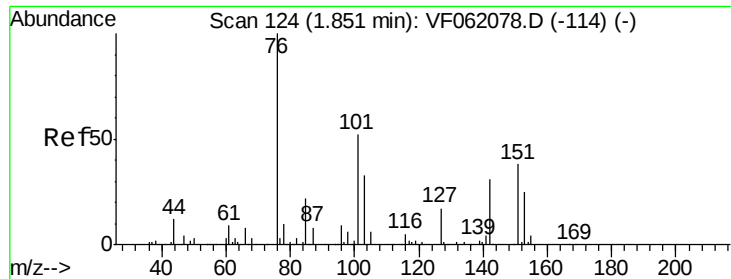
Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tgt Ion:	43	Resp:	141604
Ion	Ratio	Lower	Upper
43	100		
58	25.6	19.9	29.9





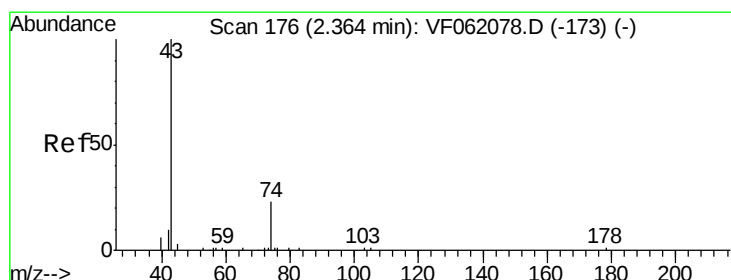
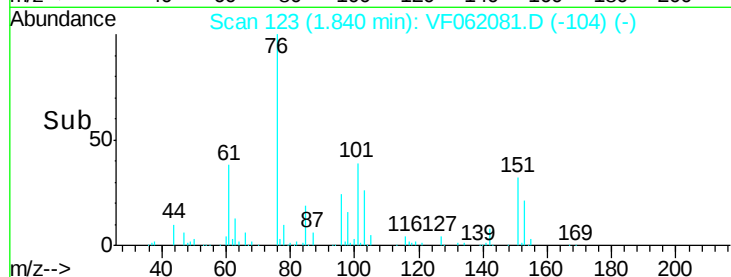
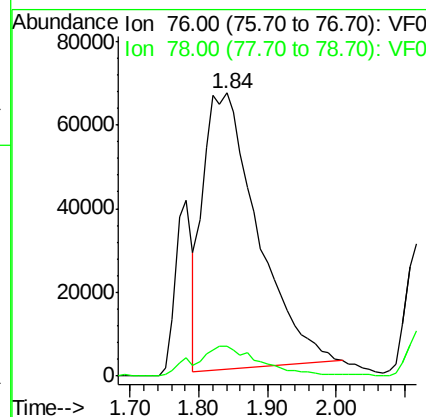
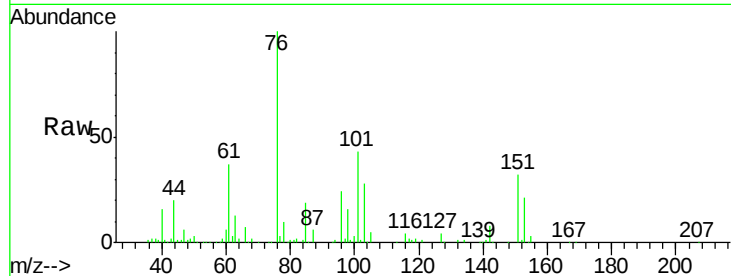
#17
Carbon Disulfide
Concen: 41.507 ug/l
RT: 1.84 min Scan# 123
Delta R.T. -0.01 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion: 76 Resp: 364026
Ion Ratio Lower Upper
76 100
78 10.4 6.8 10.2#

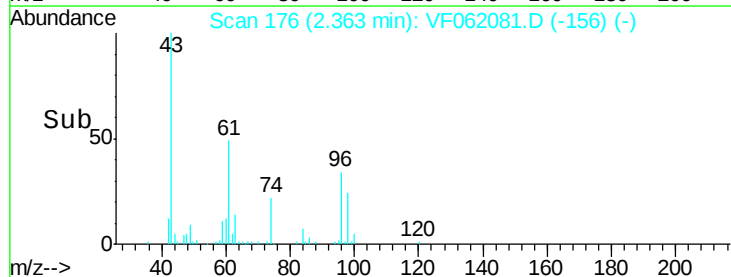
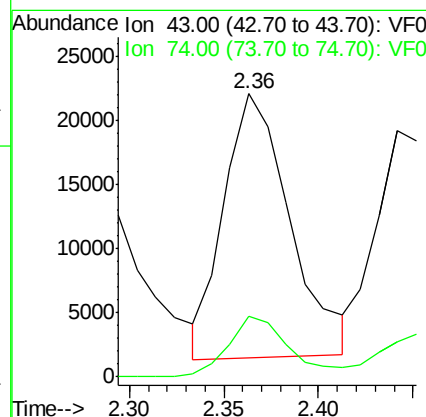
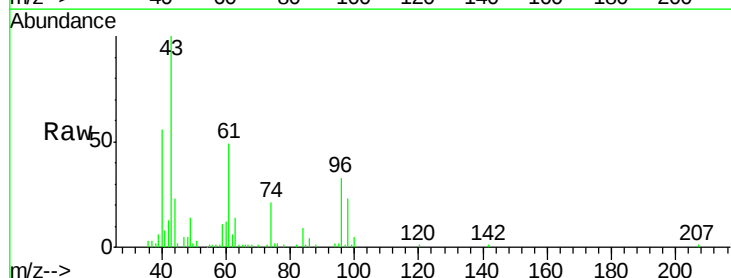
Manual Integrations
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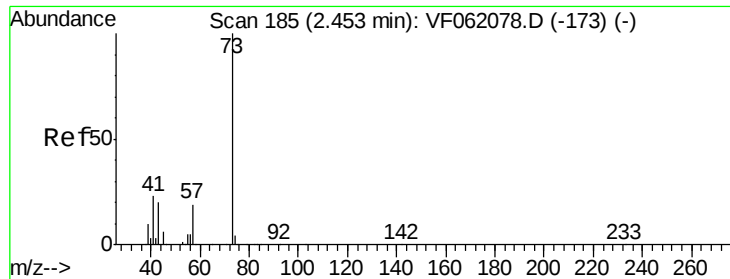
MMDadoda
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#18
Methyl Acetate
Concen: 49.106 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion: 43 Resp: 49868
Ion Ratio Lower Upper
43 100
74 21.2 18.3 27.5





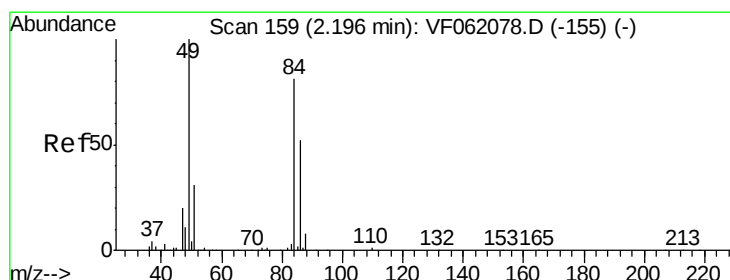
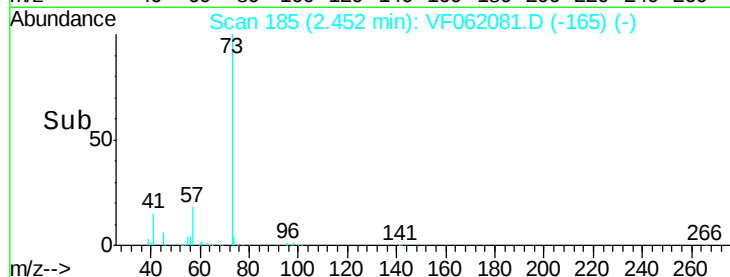
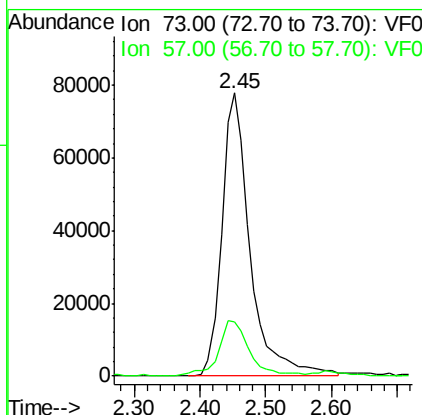
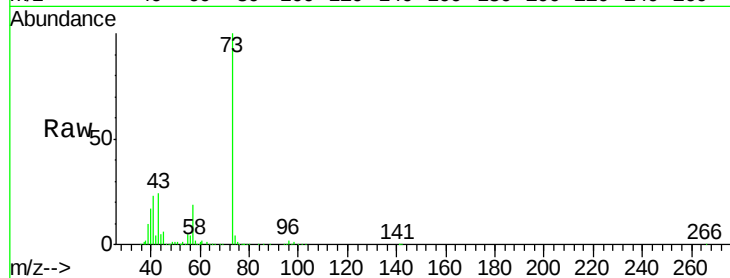
#19
Methvl tert-butvl Ether
Concen: 50.300 ug/l
RT: 2.45 min Scan# 185
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion: 73 Resp: 233252
Ion Ratio Lower Upper
73 100
57 19.2 15.3 22.9

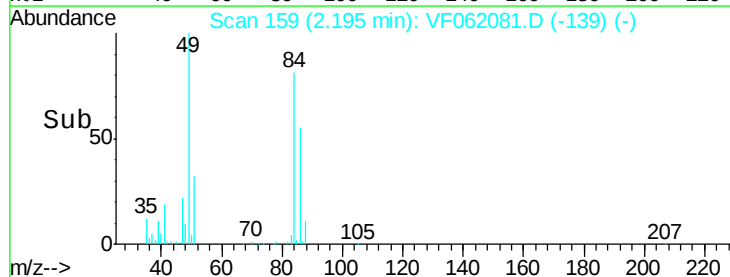
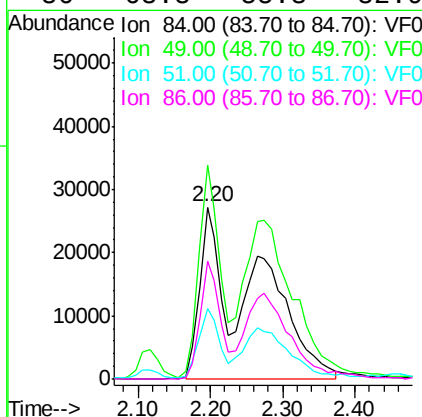
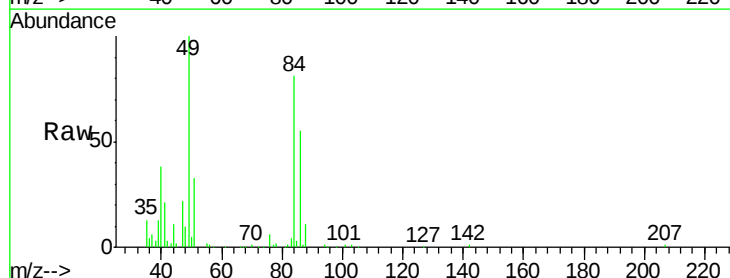
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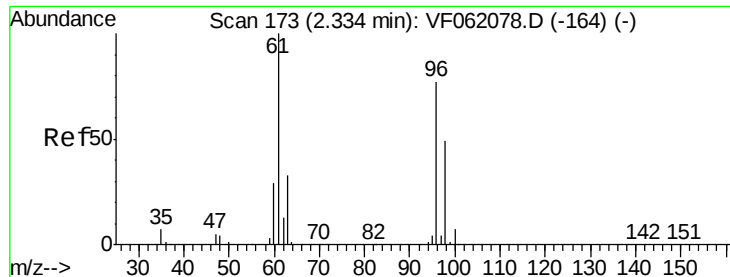
MMDadoda
3/27/2019 11:57:14 AM



#20
Methylene Chloride
Concen: 49.837 ug/l m
RT: 2.20 min Scan# 159
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion: 84 Resp: 139206
Ion Ratio Lower Upper
84 100
49 124.2 107.0 160.6
51 41.1 37.2 55.8
86 68.8 55.3 82.9





#21

trans-1,2-Dichloroethene

Concen: 53.860 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

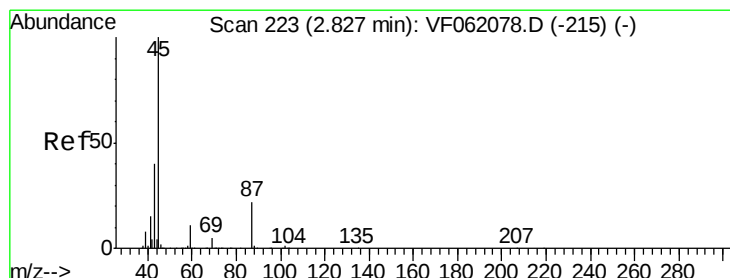
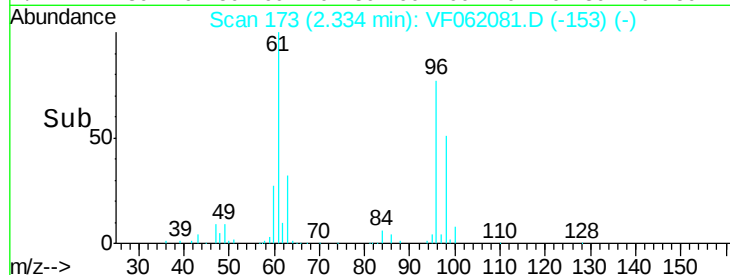
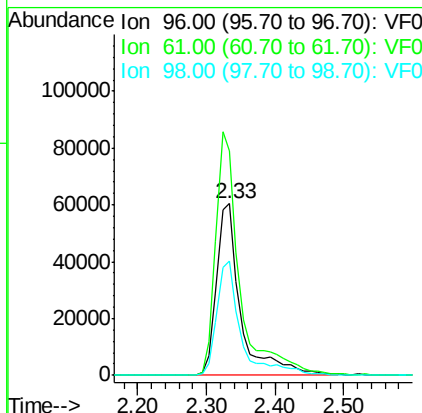
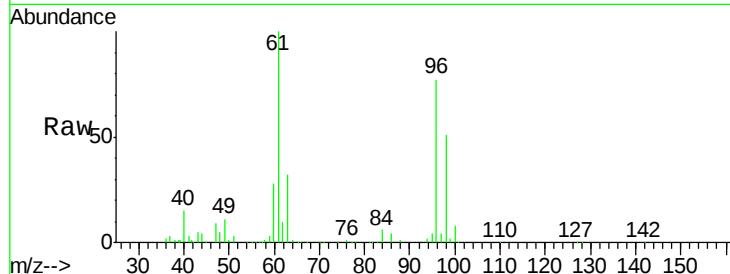
ClientSampleId :

ICVVF032219

Tot Ion:	96	Resp:	146865
Ion	Ratio	Lower	Upper
96	100		
61	130.3	117.4	176.2
98	66.2	51.2	76.8

Manual Integrations
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#22

Diisopropyl ether

Concen: 50.879 ug/l

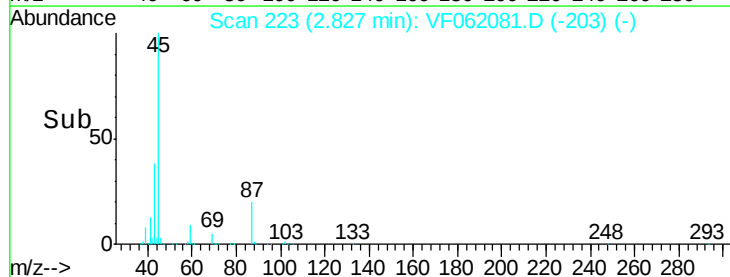
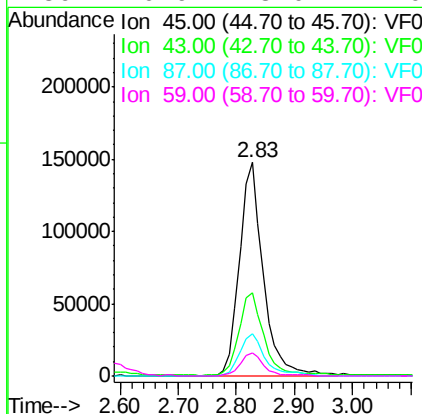
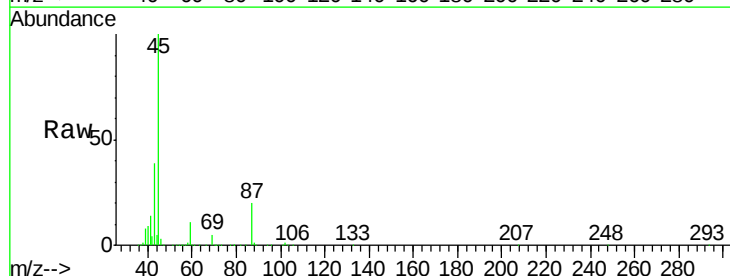
RT: 2.83 min Scan# 223

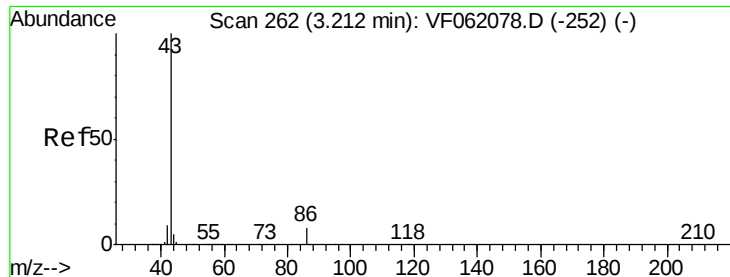
Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tgt Ion:	45	Resp:	417868
Ion	Ratio	Lower	Upper
45	100		
43	39.0	33.7	50.5
87	19.7	17.1	25.7
59	10.9	8.0	12.0





#23

Vinyl Acetate

Concen: 268.822 ug/l

RT: 3.21 min Scan# 262

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion: 43 Resp: 903959

Ion Ratio Lower Upper

43 100

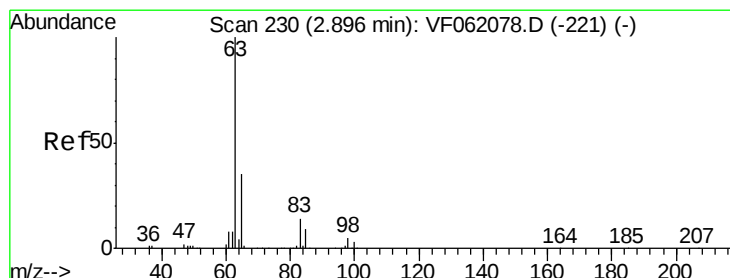
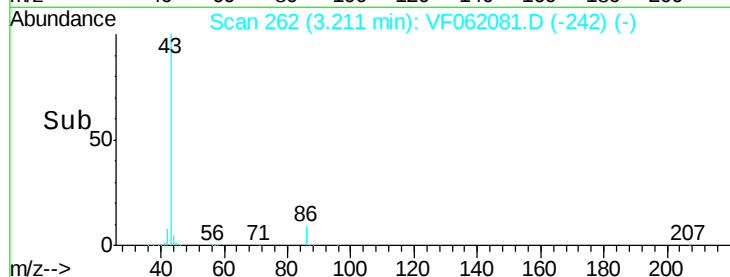
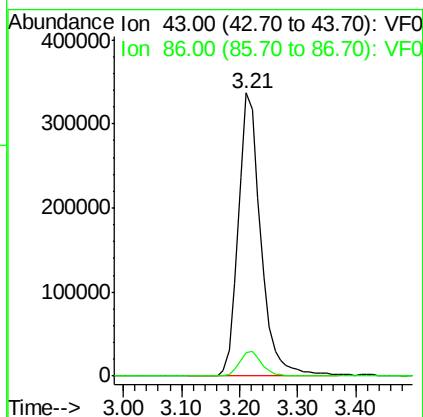
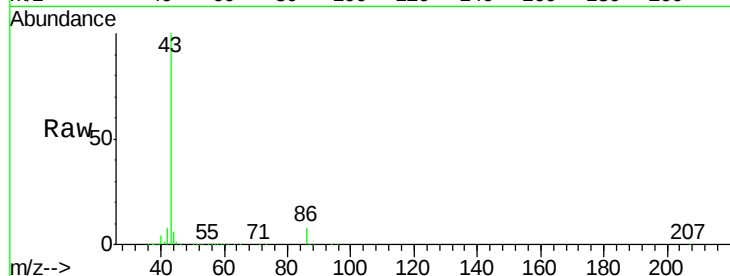
86 8.5 6.5 9.7

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 52.242 ug/l

RT: 2.90 min Scan# 230

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

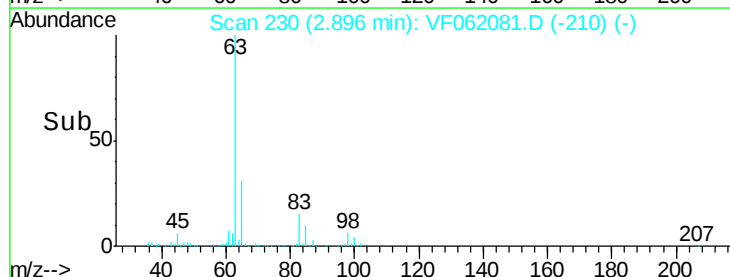
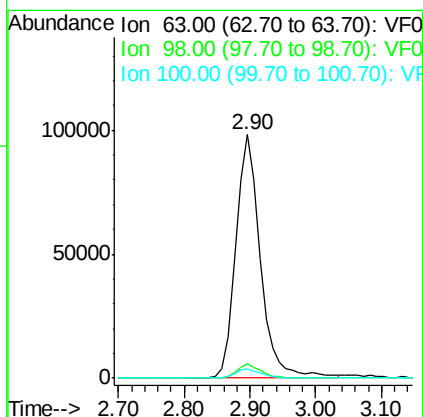
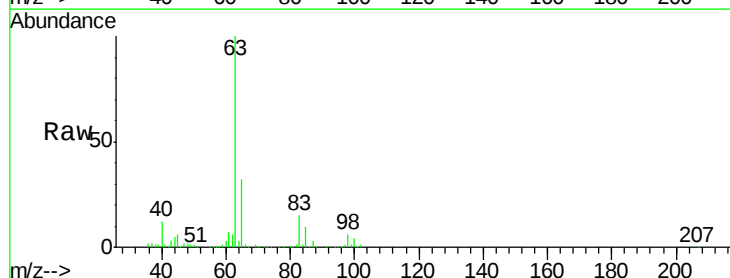
Tgt Ion: 63 Resp: 257305

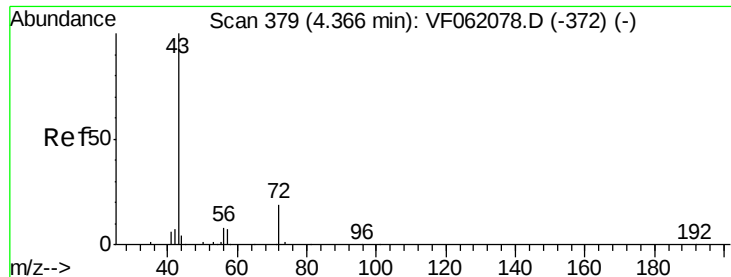
Ion Ratio Lower Upper

63 100

98 6.0 2.7 8.1

100 3.9 1.7 5.0





#25

2-Butanone

Concen: 261.102 ug/l

RT: 4.36 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion: 43 Resp: 259736

Ion Ratio Lower Upper

43 100

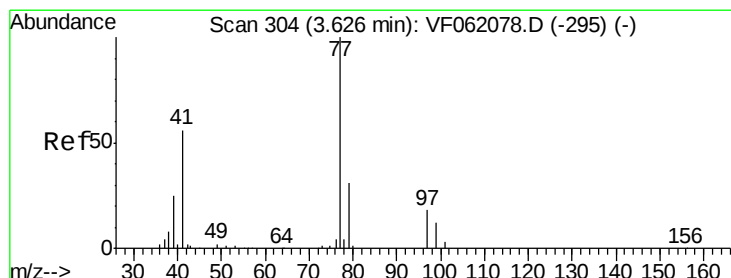
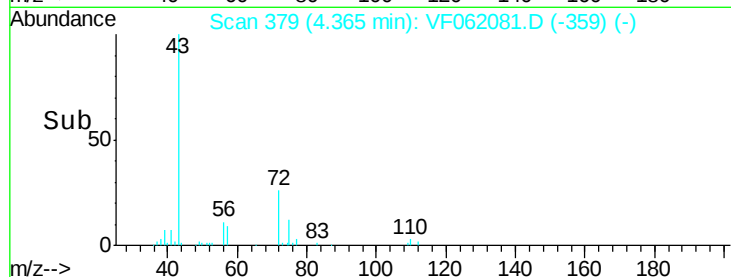
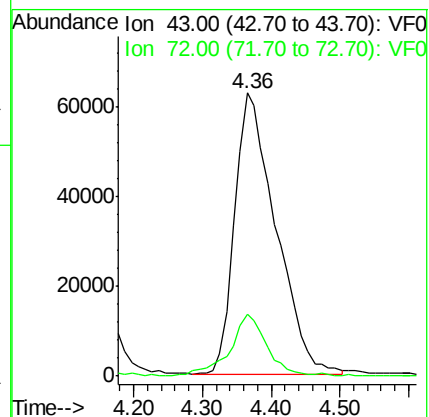
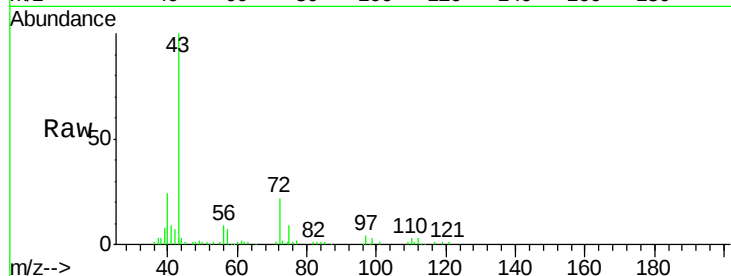
72 21.9 19.8 29.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 52.162 ug/l

RT: 3.63 min Scan# 304

Delta R.T. -0.00 min

Lab File: VF062081.D

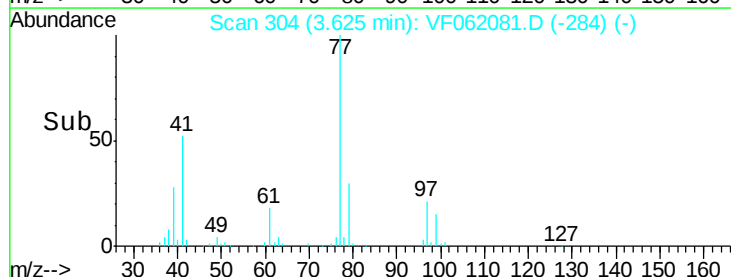
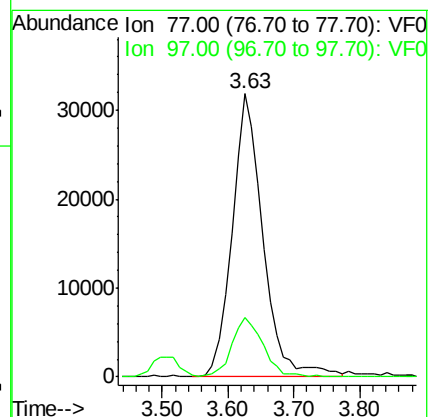
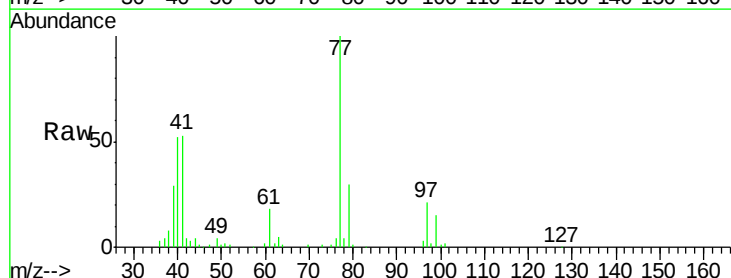
Acq: 22 Mar 2019 14:12

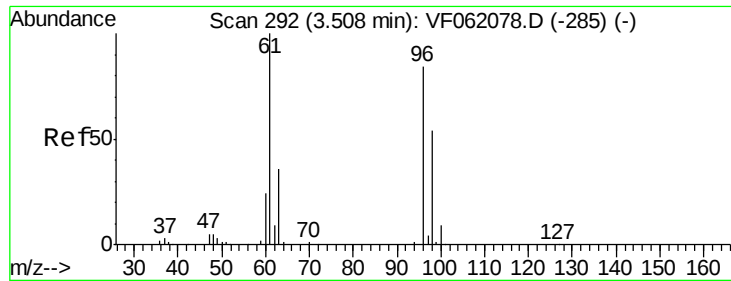
Tgt Ion: 77 Resp: 104165

Ion Ratio Lower Upper

77 100

97 20.9 10.8 32.4





#27

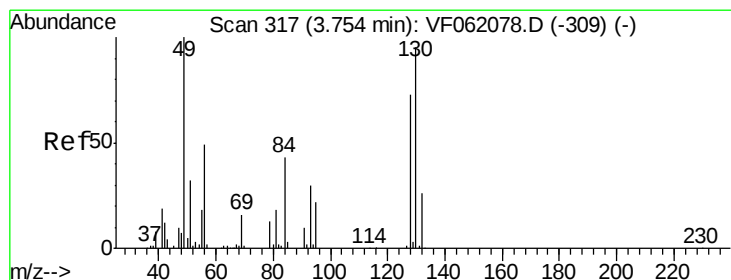
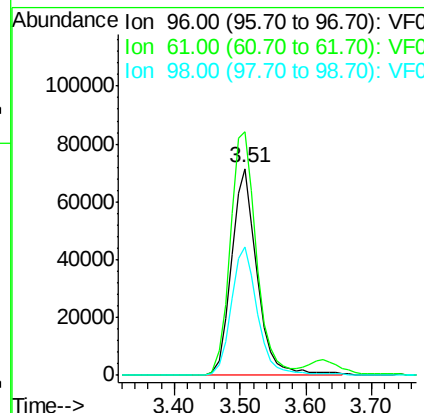
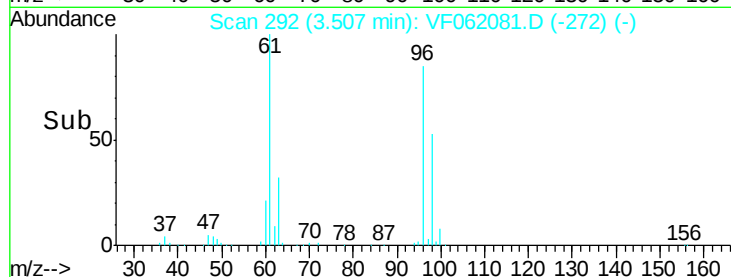
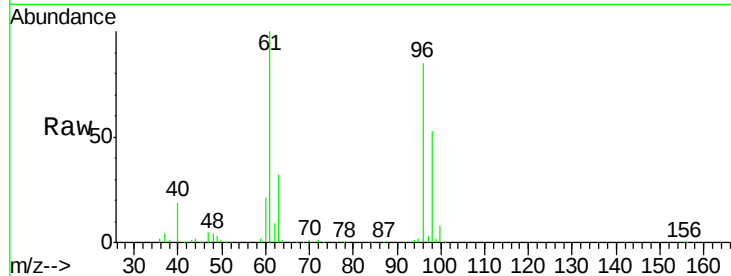
cis-1,2-Dichloroethene
Concen: 52.199 ug/l
RT: 3.51 min Scan# 292
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Lower	Upper
96	100		
61	117.8	0.0	246.6
98	62.3	0.0	129.2

Manual Integrations
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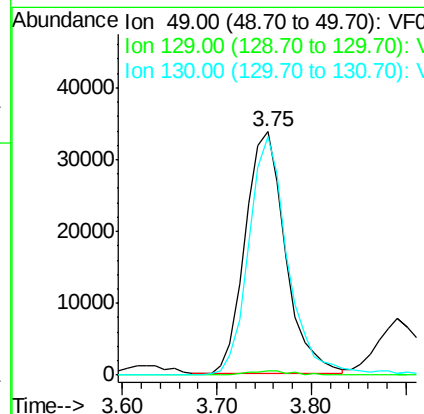
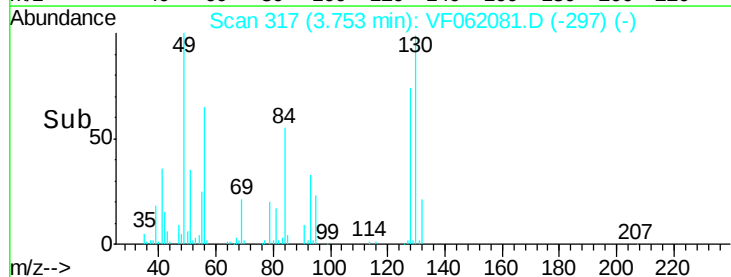
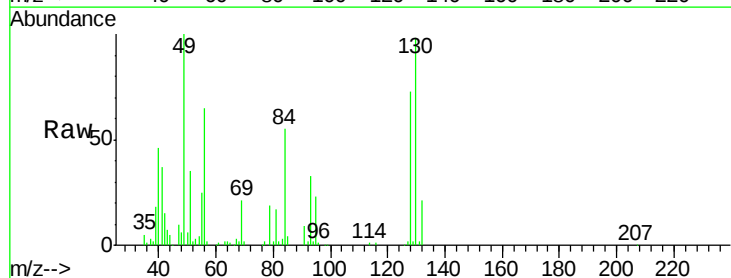
MMDadoda
3/27/2019 11:57:14 AM

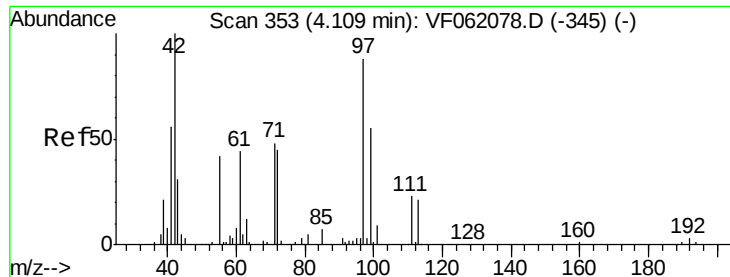


#28

Bromochloromethane
Concen: 49.377 ug/l
RT: 3.75 min Scan# 317
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	5.8
130	98.2	73.1	109.7





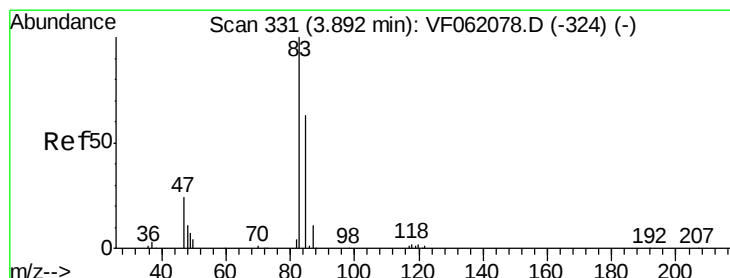
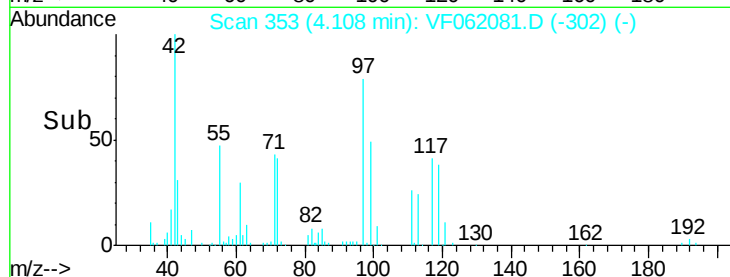
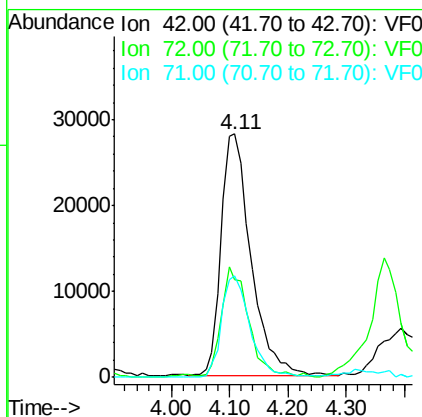
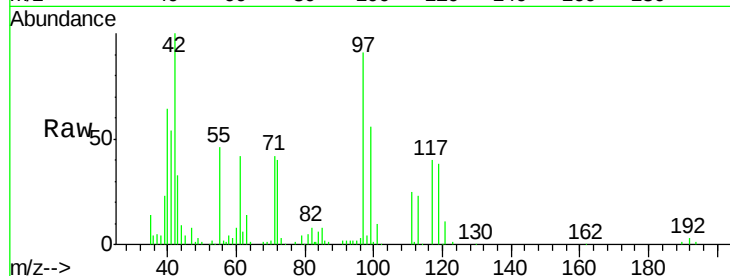
#29
Tetrahydrofuran
Concen: 233.555 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	41.9		34.0	51.0
71	39.8		34.2	51.4

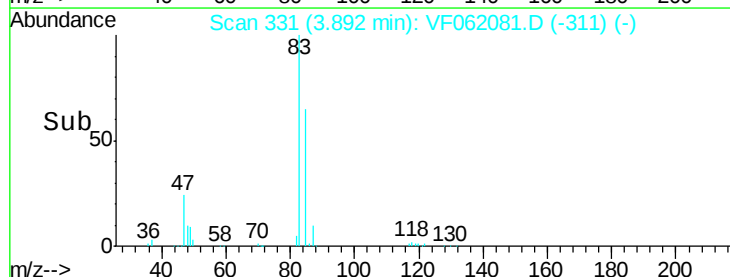
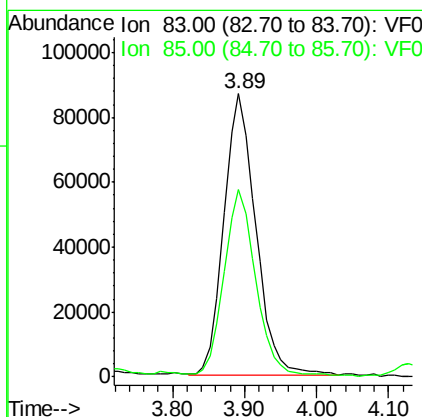
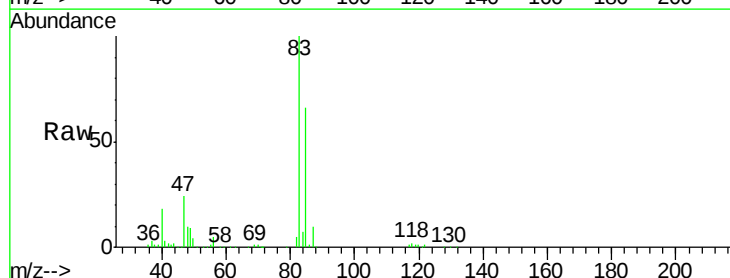
Manual Integrations
APPROVED

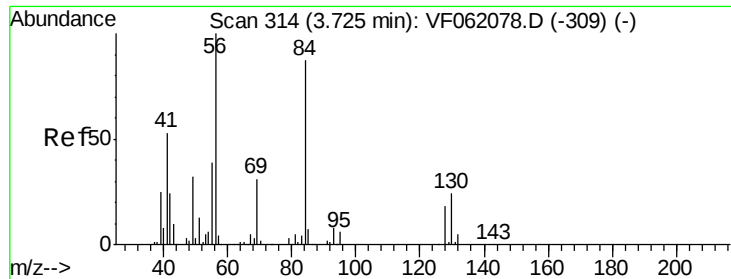
MMDadoda
3/27/2019 11:57:14 AM



#30
Chloroform
Concen: 50.845 ug/l
RT: 3.89 min Scan# 331
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	66.1		55.5	83.3





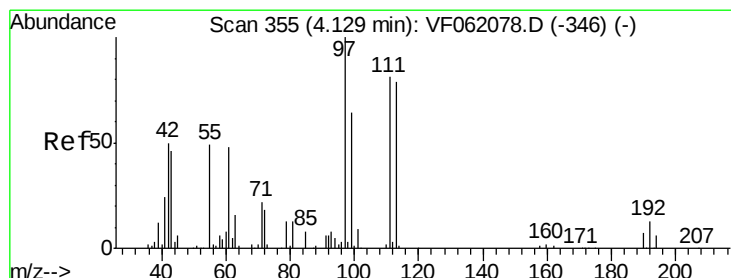
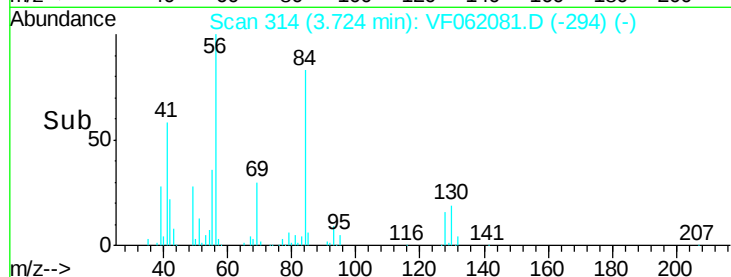
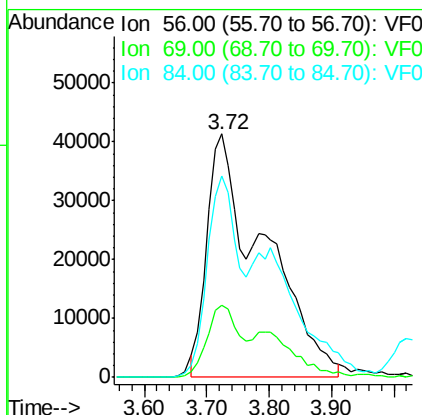
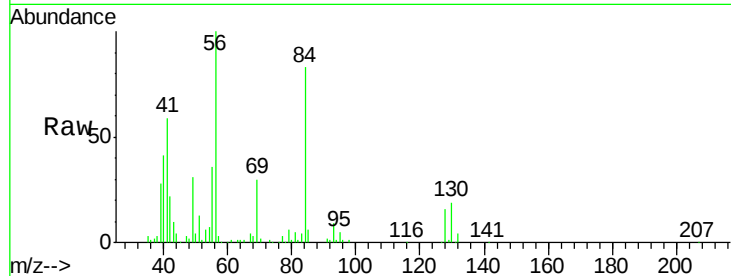
#31
Cyclohexane
Concen: 54.040 ug/l m
RT: 3.72 min Scan# 314
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.6	25.8	38.8
84	82.6	69.5	104.3

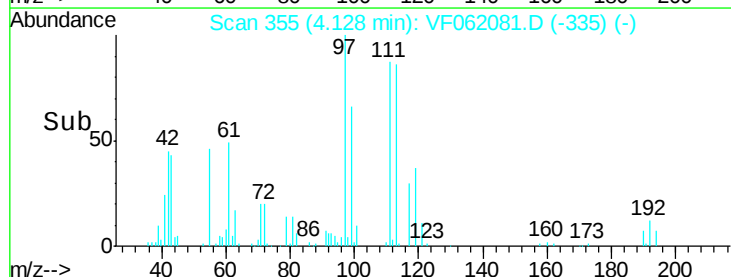
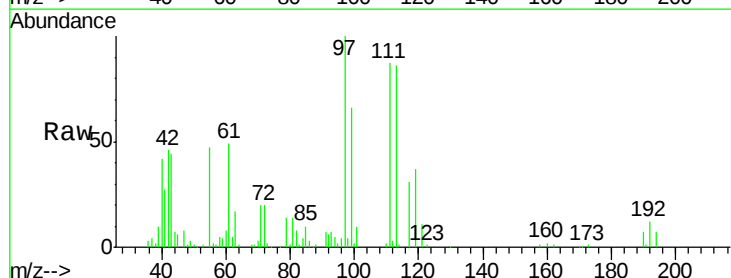
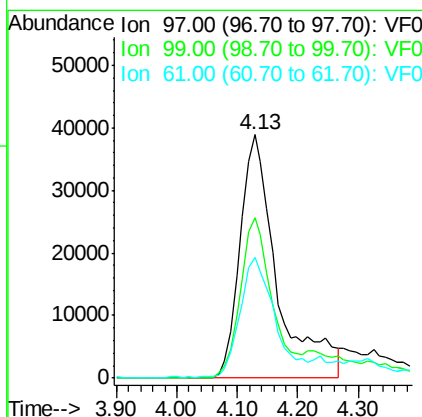
Manual Integrations
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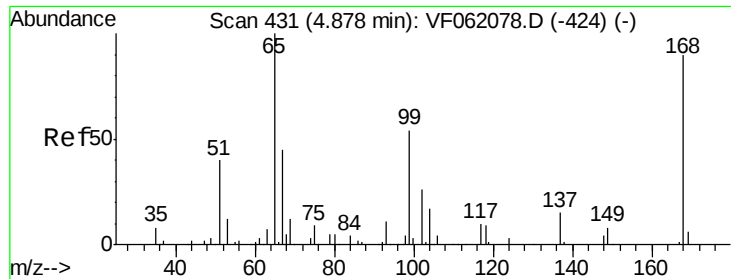
MMDadoda
3/27/2019 11:57:14 AM



#32
1,1,1-Trichloroethane
Concen: 52.728 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	49.0	73.4
61	49.4	41.4	62.0





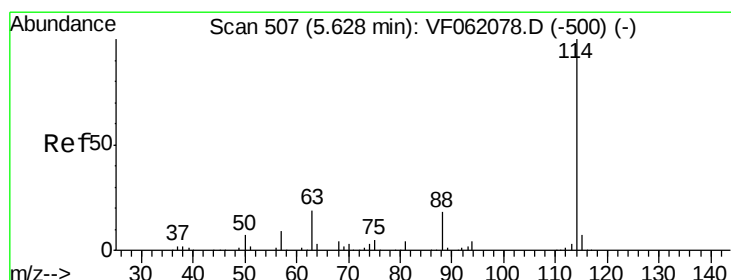
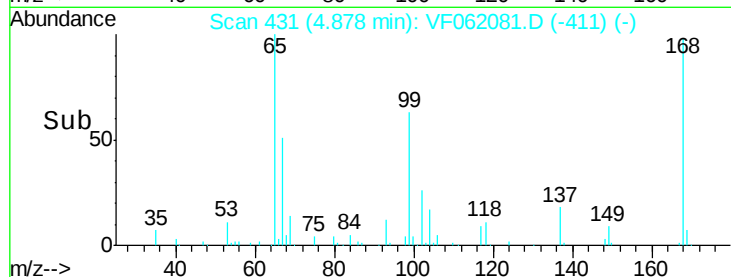
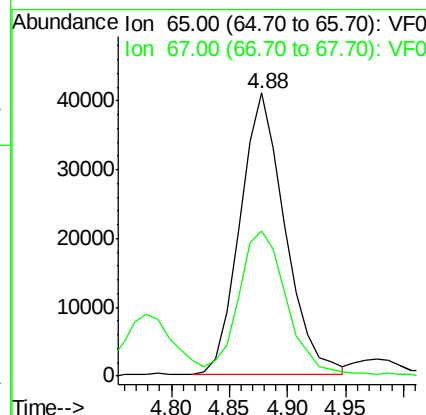
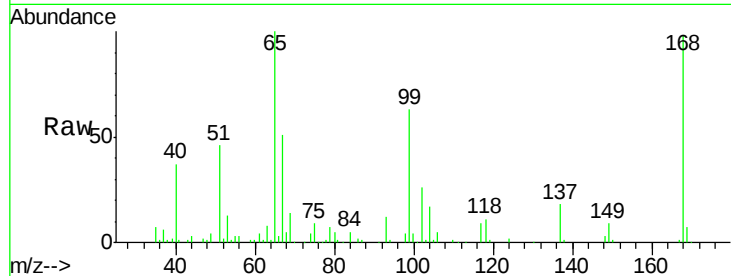
#33
 1,2-Dichloroethane-d4
 Concen: 48.609 ug/l
 RT: 4.88 min Scan# 431
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF032219

Tot Ion	Ratio	Resp	Lower	Upper
65	100	110054		
67	51.3	0.0	109.4	

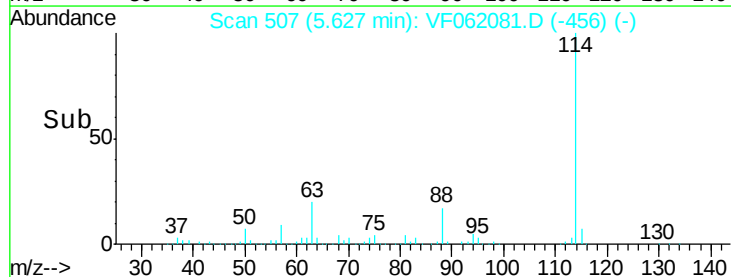
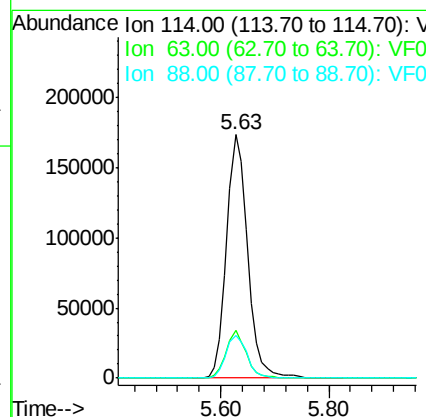
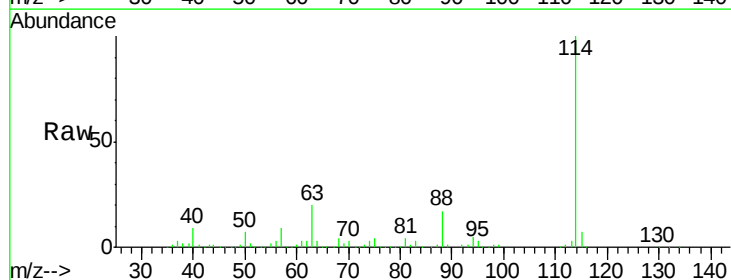
Manual Integrations
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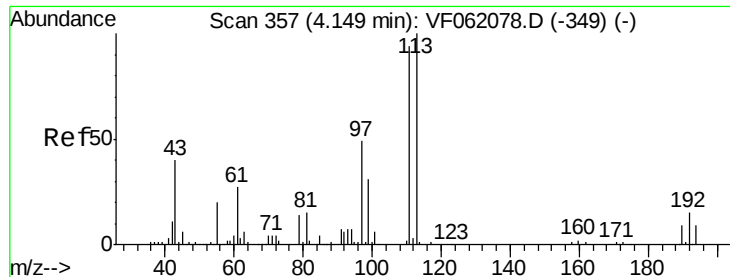
MMDadoda
 3/27/2019 11:57:14 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	469614		
63	19.8	0.0	36.4	
88	17.4	0.0	36.4	





#35

Dibromofluoromethane

Concen: 50.803 ug/l

RT: 4.15 min Scan# 357

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

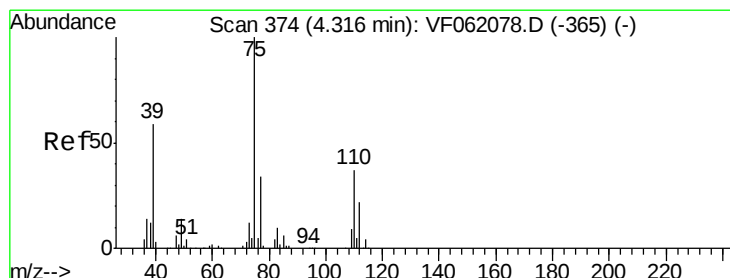
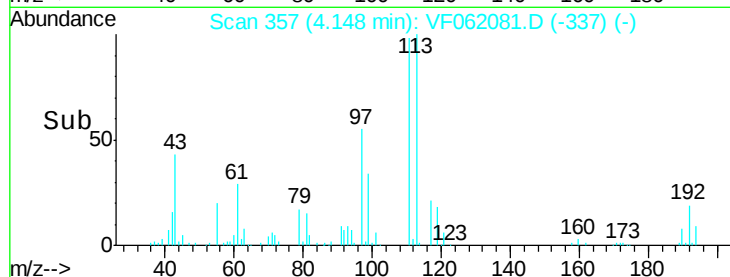
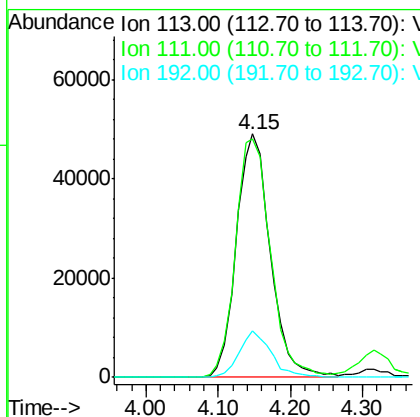
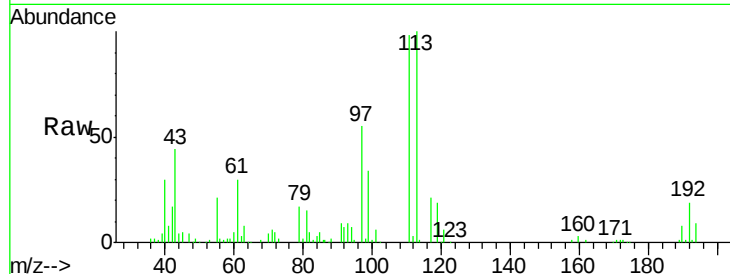
ClientSampleId :

ICVVF032219

Tot Ion	Ratio	Lower	Upper
113	100		
111	97.8	80.8	121.2
192	19.7	13.0	19.6

Manual Integrations
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3/27/2019 11:57:14 AM



#36

1,1-Dichloropropene

Concen: 49.769 ug/l

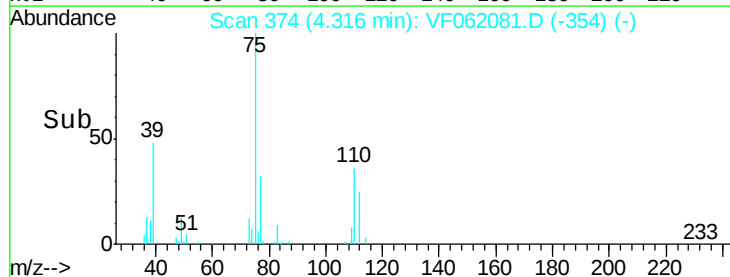
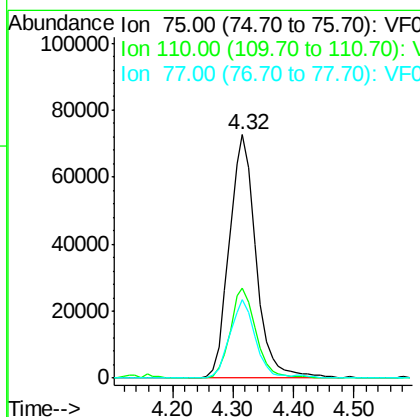
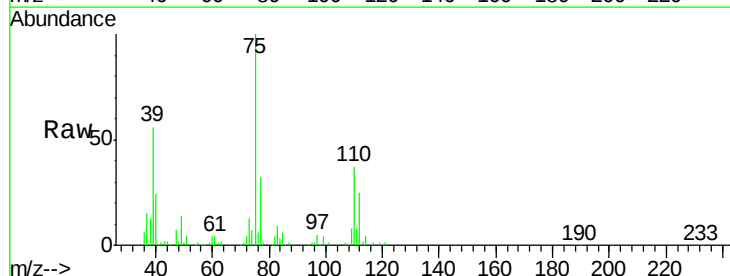
RT: 4.32 min Scan# 374

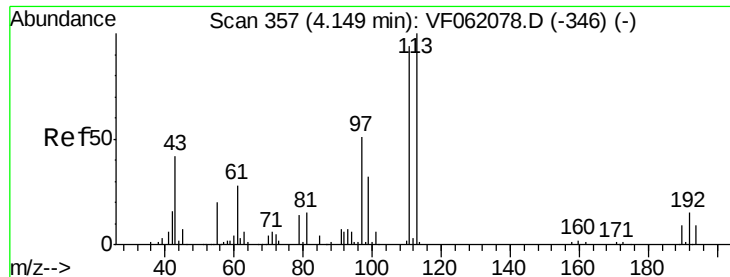
Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.9	17.8	53.3
77	32.3	24.2	36.2





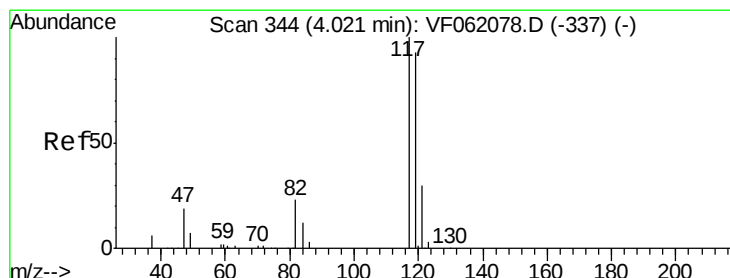
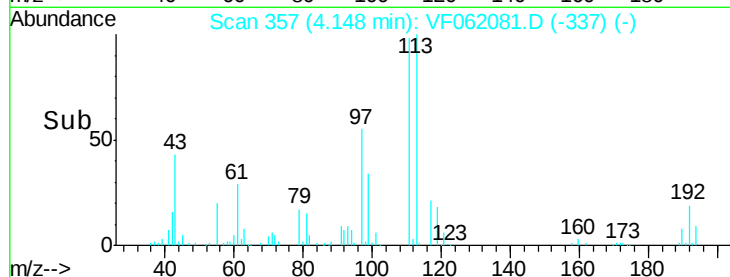
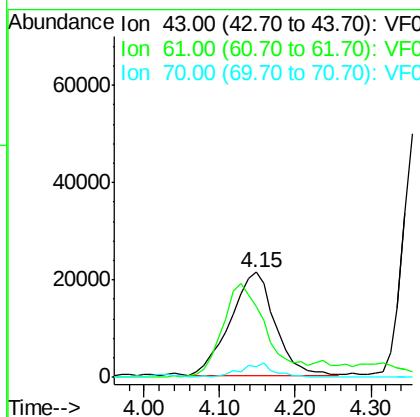
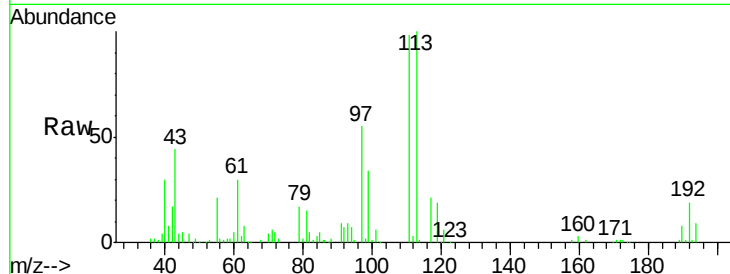
#37
Ethyl Acetate
Concen: 44.521 ug/l
RT: 4.15 min Scan# 357
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	67.3	59.8	89.6			
70	9.8	7.8	11.8			

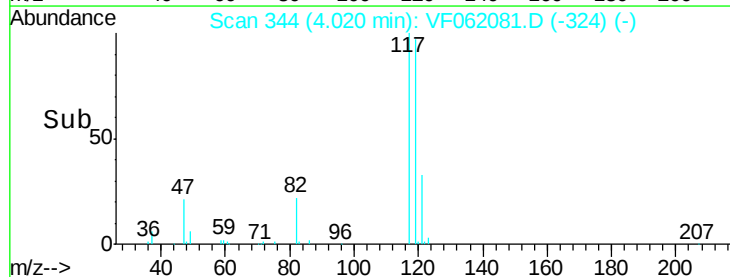
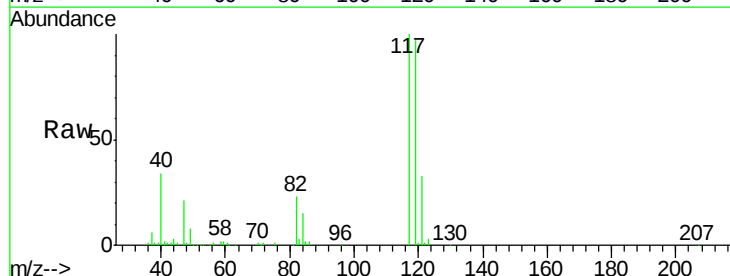
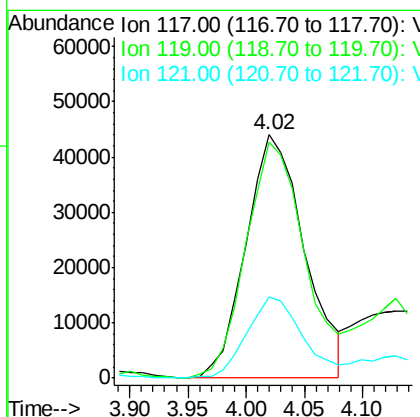
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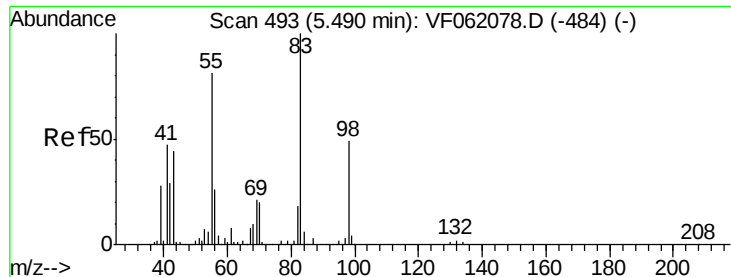
MMDadoda
3/27/2019 11:57:14 AM



#38
Carbon Tetrachloride
Concen: 50.115 ug/l
RT: 4.02 min Scan# 344
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	97.1	73.0	109.4			
121	34.0	23.0	34.6			





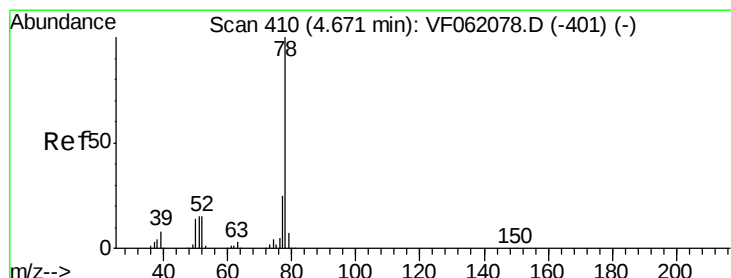
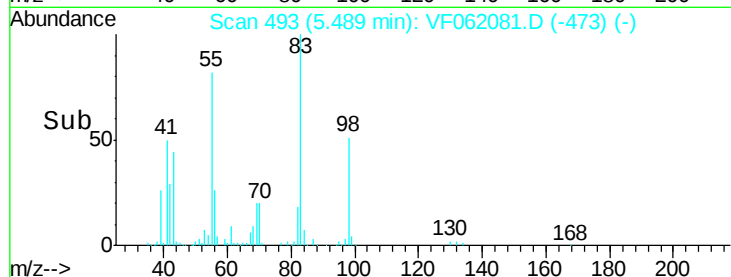
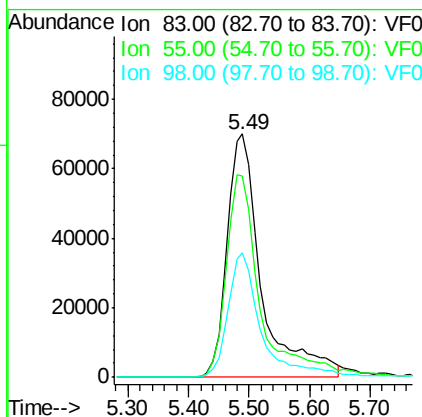
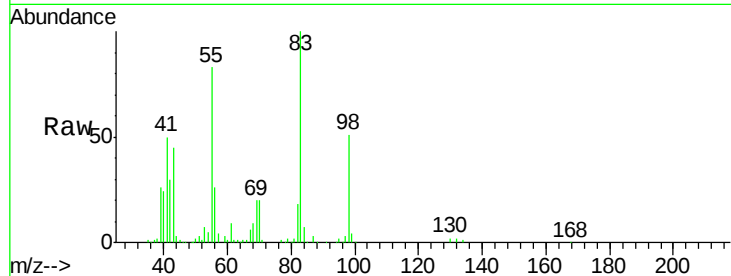
#39
Methvlcvclohexane
Concen: 53.548 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Resp	Lower	Upper
83	100	277994		
55	82.5	69.7	104.5	
98	51.0	39.4	59.0	

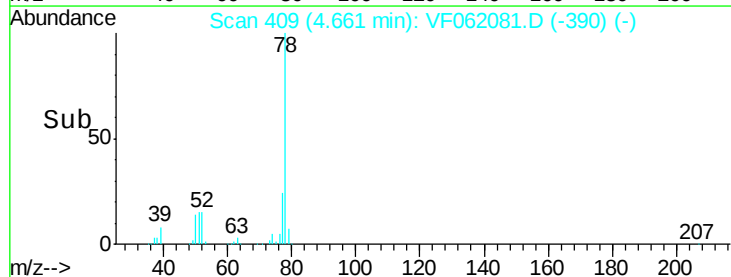
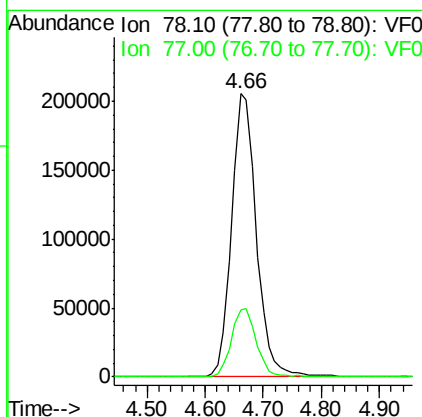
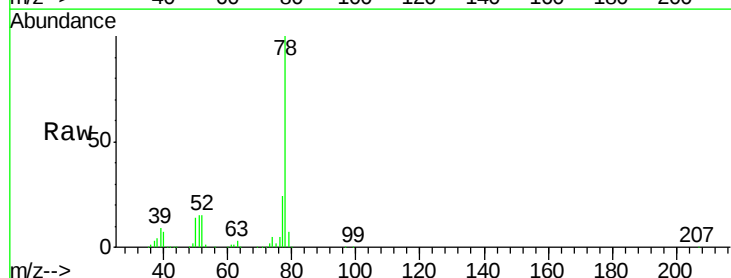
Manual Integrations
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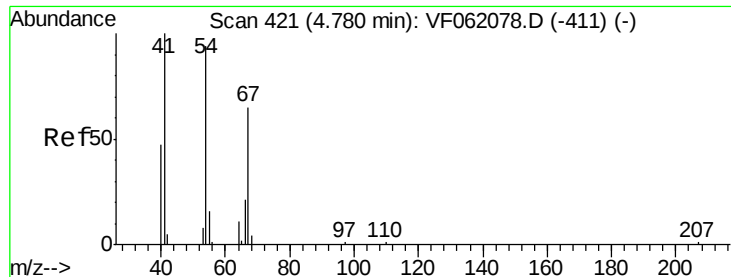
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#40
Benzene
Concen: 50.711 ug/l
RT: 4.66 min Scan# 409
Delta R.T. -0.01 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	608092		
77	23.9	19.0	28.4	





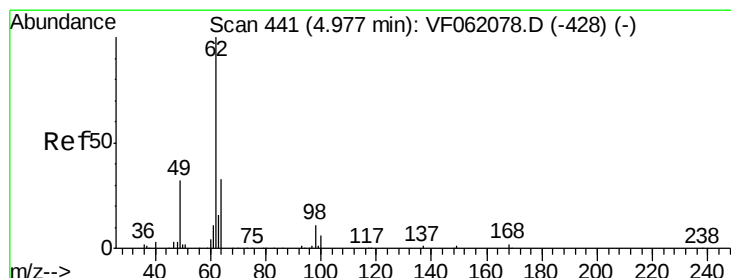
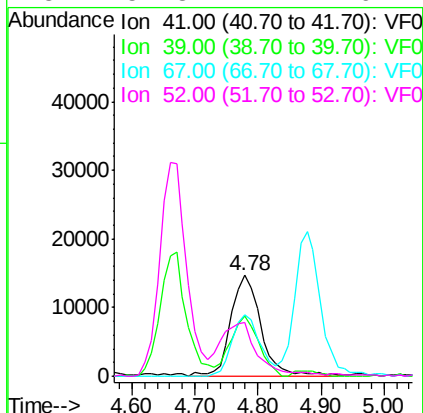
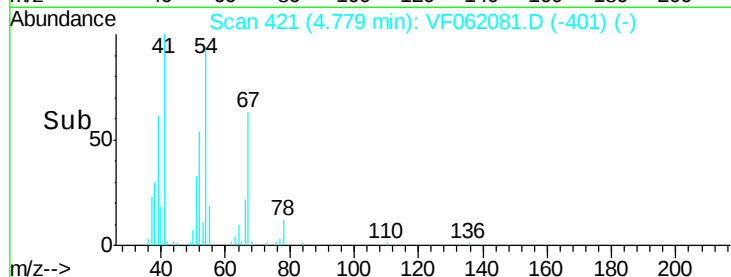
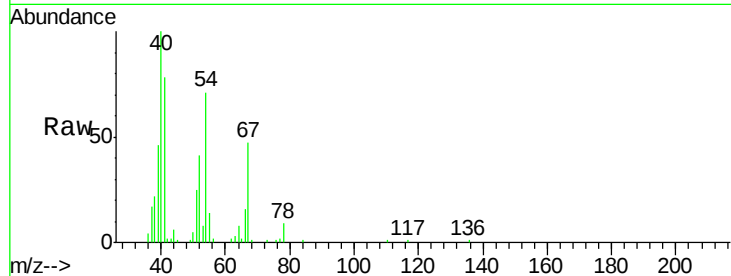
#41
Methacrylonitrile
Concen: 47.305 ug/l
RT: 4.78 min Scan# 421
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	59.4	46.2	69.4	
67	60.7	49.8	74.8	
52	52.8	42.7	64.1	

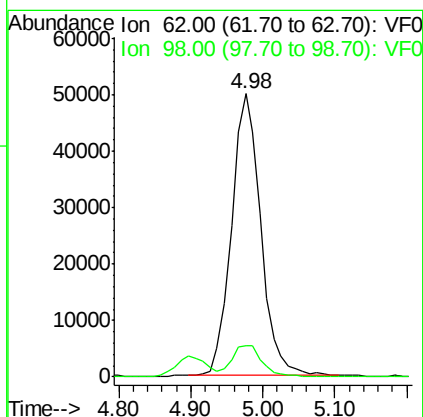
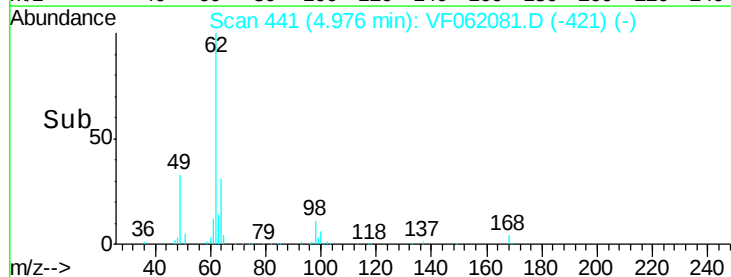
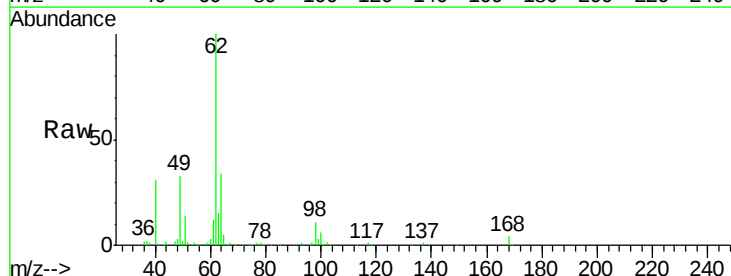
Manual Integrations
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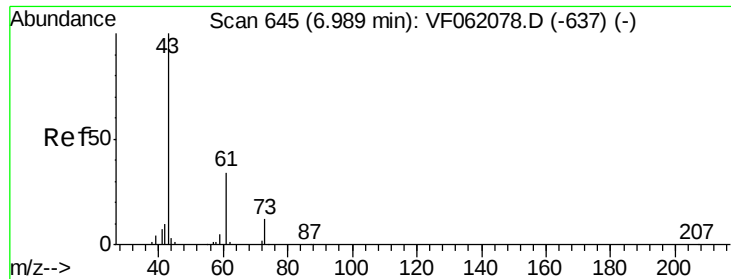
MMDadoda
3/27/2019 11:57:14 AM



#42
1,2-Dichloroethane
Concen: 50.008 ug/l
RT: 4.98 min Scan# 441
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	11.3	0.0	19.8	





#43

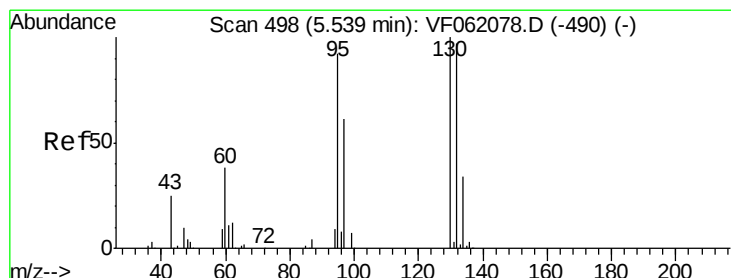
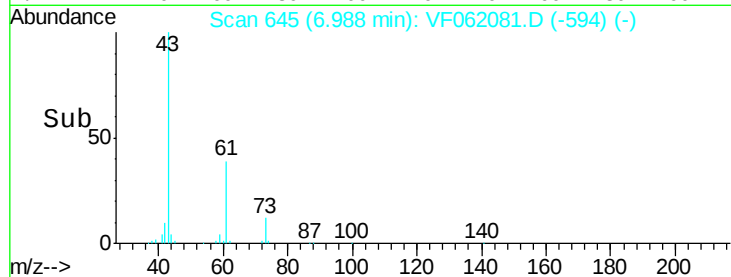
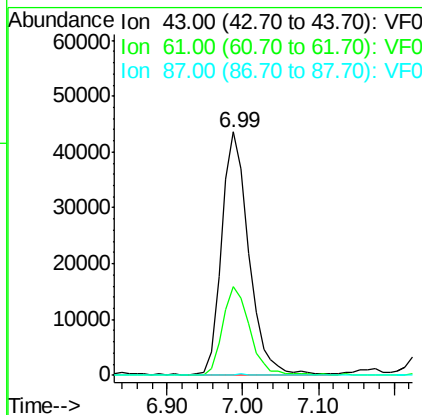
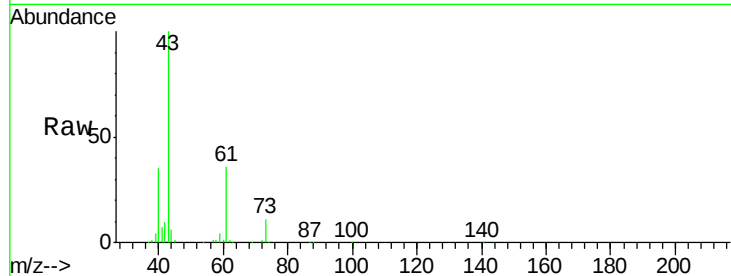
Isopropyl Acetate
 Concen: 46.204 ug/l
 RT: 6.99 min Scan# 645
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF032219

Tot Ion	Ratio	Lower	Upper
43	100		
61	36.3	30.1	45.1
87	0.2	0.4	0.6

Manual Integrations
 APPROVED

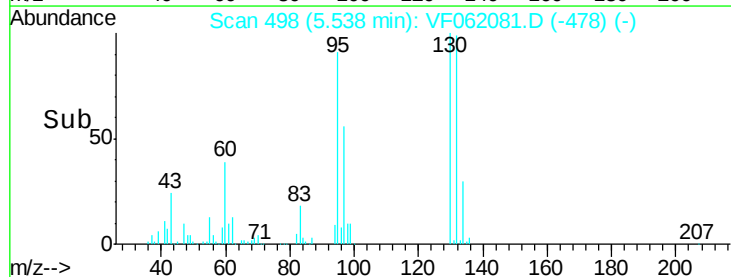
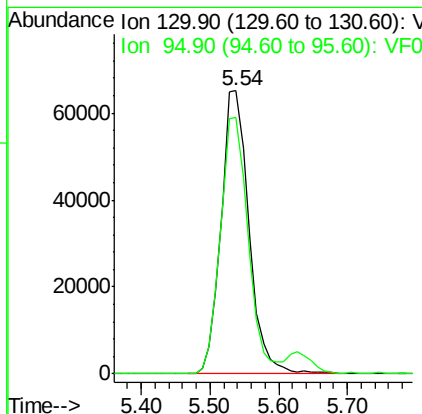
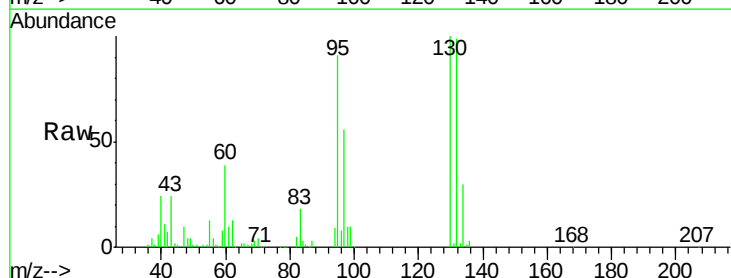
MMDadoda
 3/27/2019 11:57:14 AM

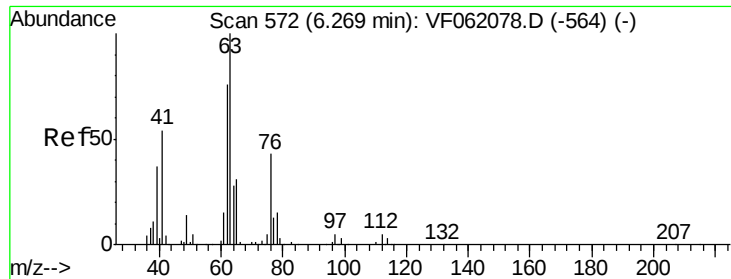


#44

Trichloroethene
 Concen: 50.147 ug/l
 RT: 5.54 min Scan# 498
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.5	0.0	181.4





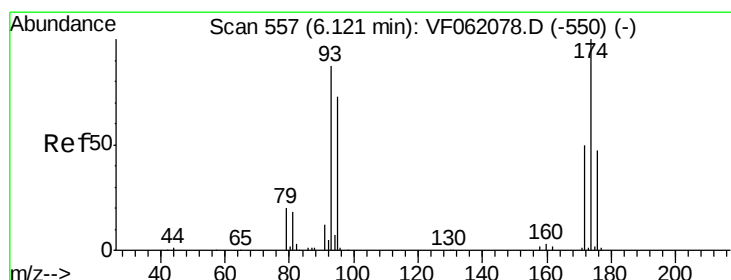
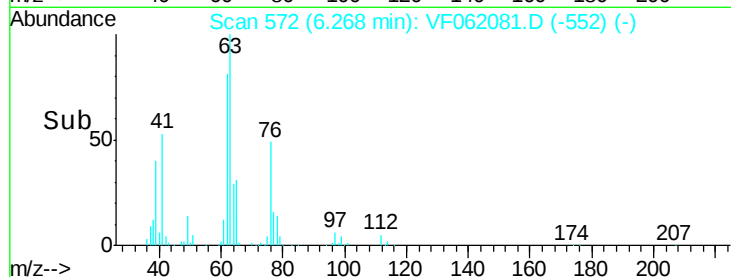
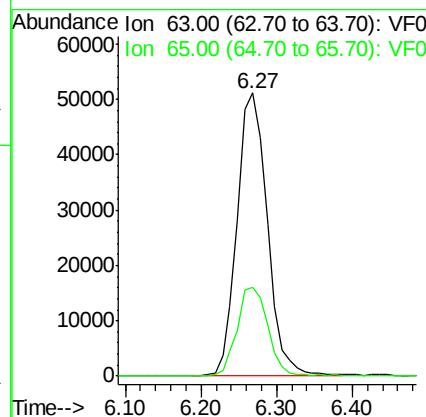
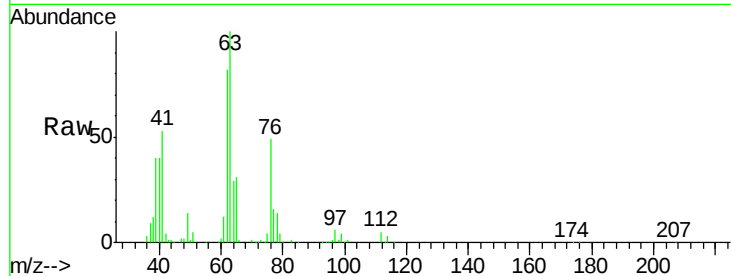
#45
 1,2-Dichloropropane
 Concen: 49.533 ug/l
 RT: 6.27 min Scan# 572
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF032219

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.2	23.7	35.5

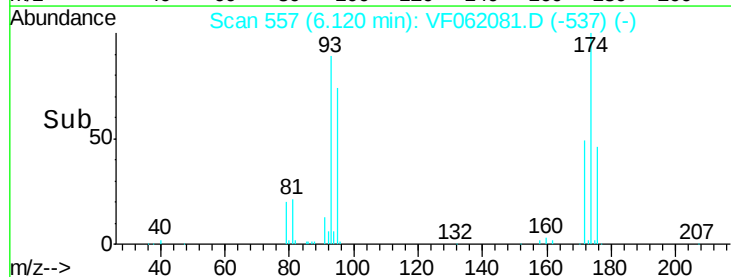
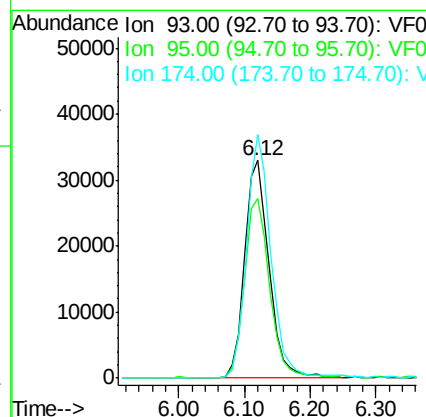
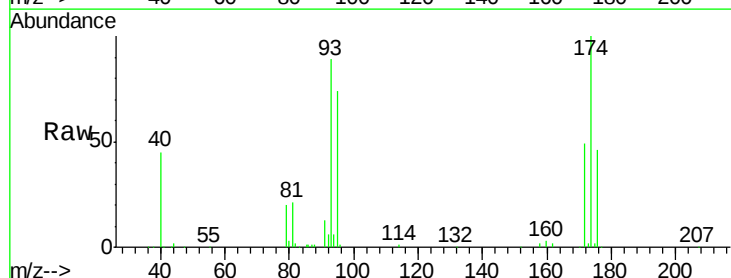
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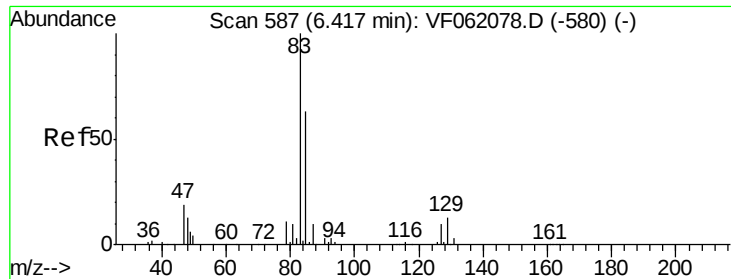
MMDadoda
 3/27/2019 11:57:14 AM



#46
 Dibromomethane
 Concen: 49.362 ug/l
 RT: 6.12 min Scan# 557
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
93	100		
95	82.2	65.7	98.5
174	111.8	82.2	123.4





#47

Bromodichloromethane

Concen: 50.144 ug/l

RT: 6.42 min Scan# 587

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

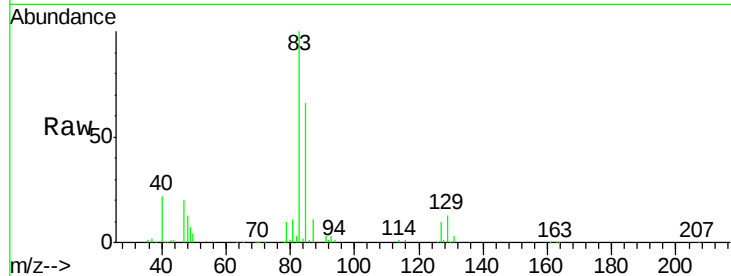
ClientSampleId :

ICVVF032219

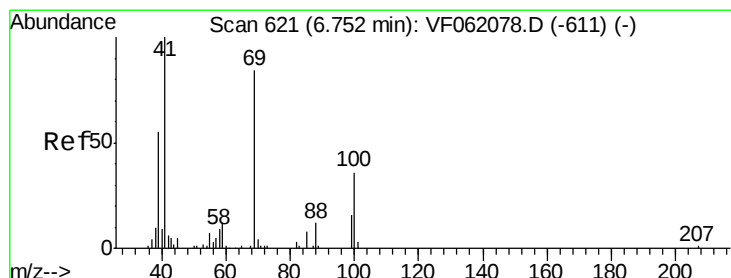
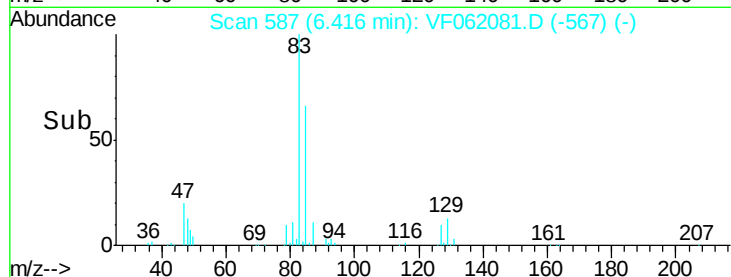
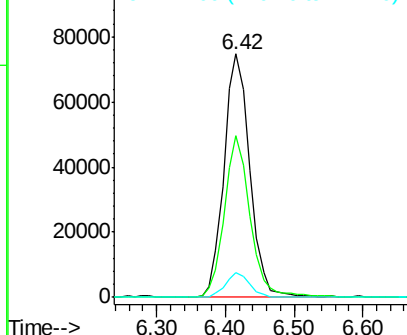
Tot Ion:	83	Resp:	194232
Ion Ratio	Lower	Upper	
83	100		
85	66.3	51.4	77.2
127	10.0	6.5	9.7#

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0
Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 49.654 ug/l

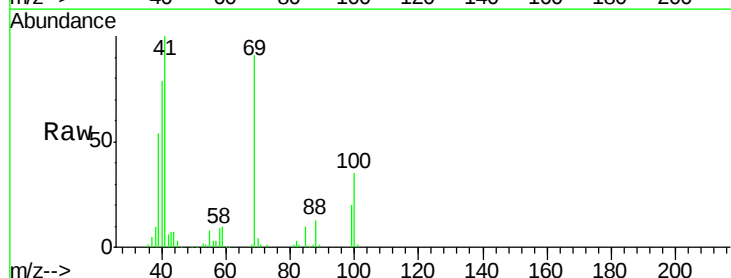
RT: 6.75 min Scan# 621

Delta R.T. -0.00 min

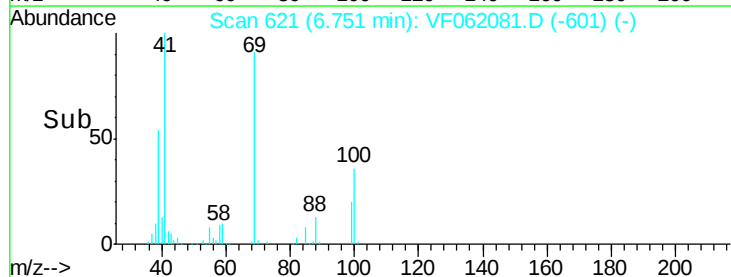
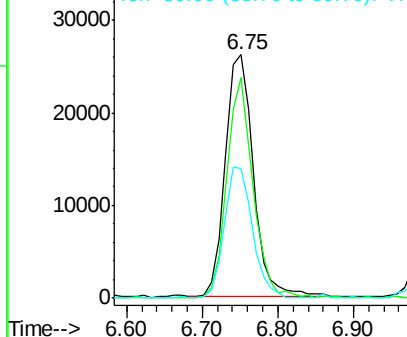
Lab File: VF062081.D

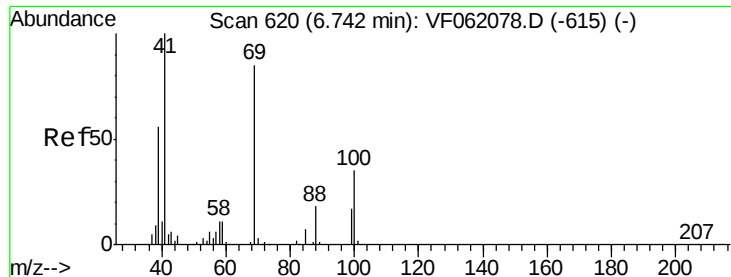
Acq: 22 Mar 2019 14:12

Tgt Ion:	41	Resp:	66931
Ion Ratio	Lower	Upper	
41	100		
69	90.6	59.0	88.6#
39	53.5	35.6	53.4#



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





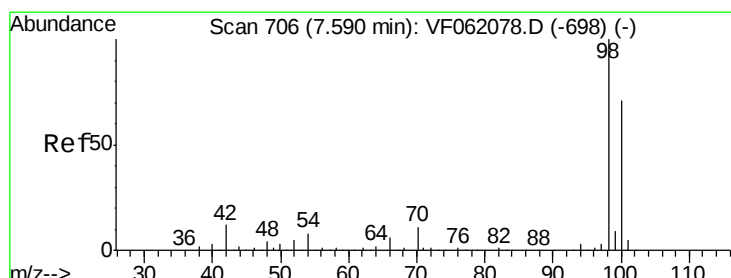
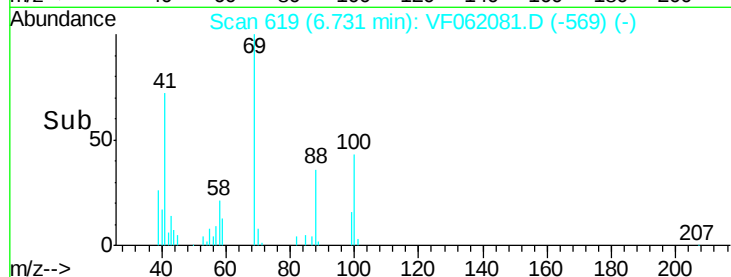
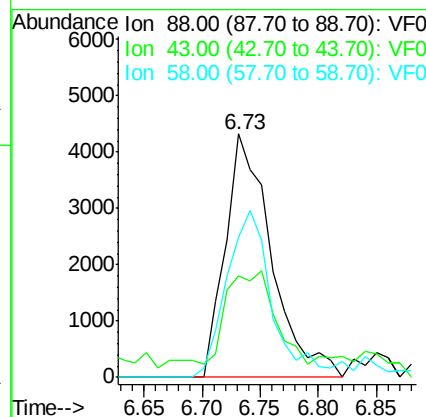
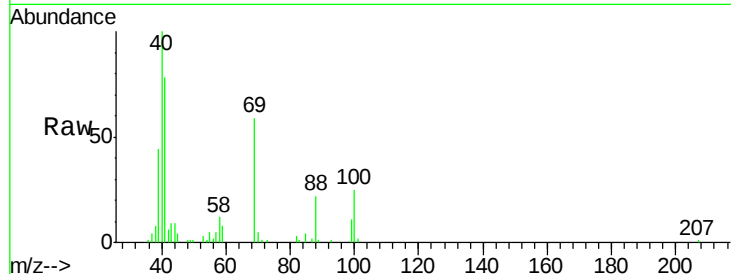
#49
1,4-Dioxane
Concen: 1000.522 ug/l
RT: 6.73 min Scan# 619
Delta R.T. -0.01 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	42.0		31.2	46.8
58	57.4		69.9	104.9#

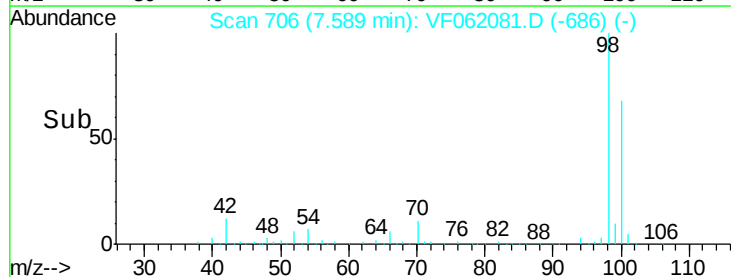
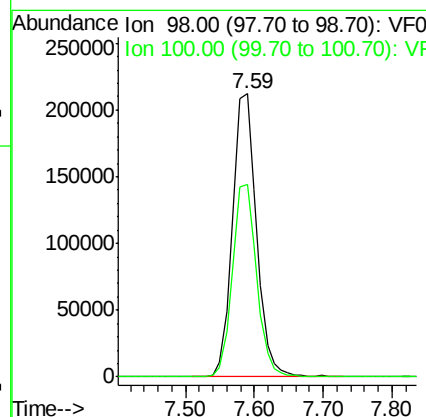
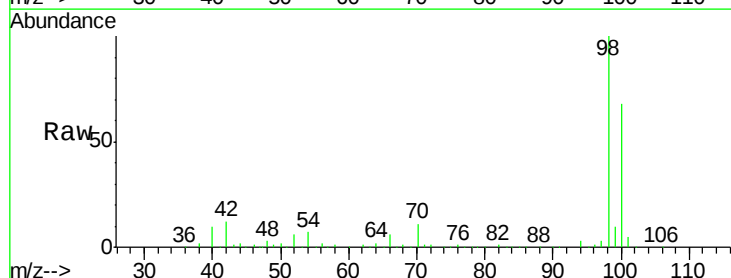
Manual Integrations
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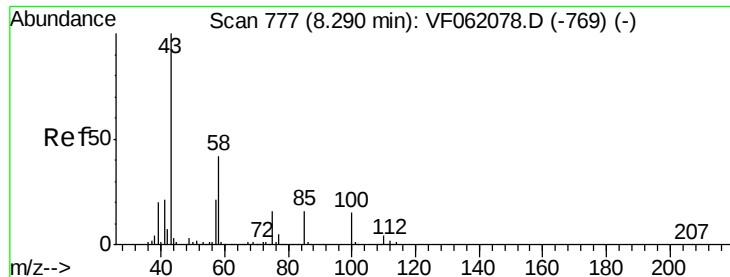
MMDadoda
3/27/2019 11:57:14 AM



#50
Toluene-d8
Concen: 54.334 ug/l
RT: 7.59 min Scan# 706
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	68.0		56.8	85.2





#51

4-Methyl-2-Pentanone

Concen: 243.167 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion: 43 Resp: 385310

Ion Ratio Lower Upper

43 100

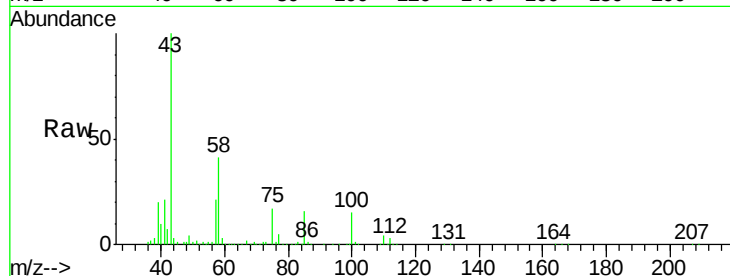
58 41.4 31.1 46.7

Manual Integrations

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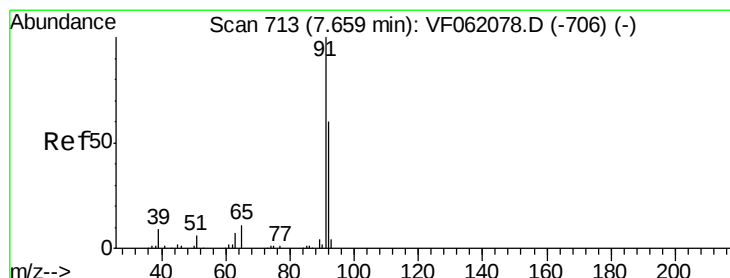
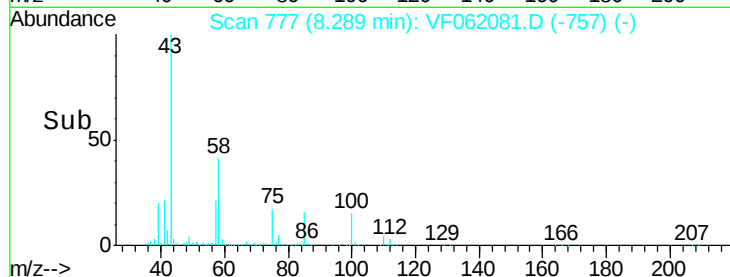
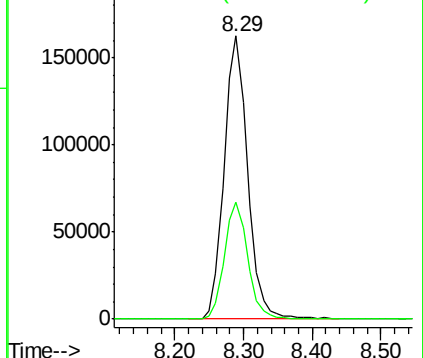
MMDadoda

3/27/2019 11:57:14 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 52.169 ug/l

RT: 7.66 min Scan# 713

Delta R.T. -0.00 min

Lab File: VF062081.D

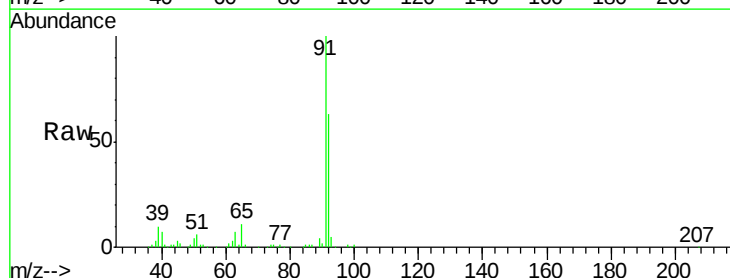
Acq: 22 Mar 2019 14:12

Tgt Ion: 92 Resp: 362339

Ion Ratio Lower Upper

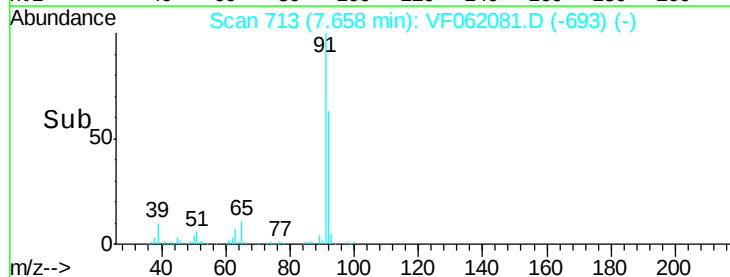
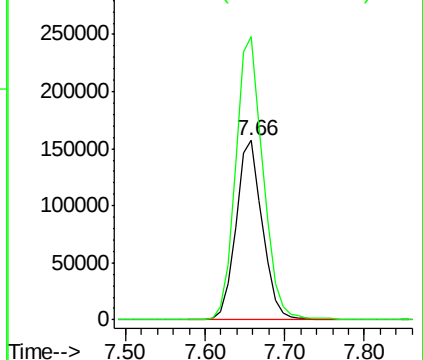
92 100

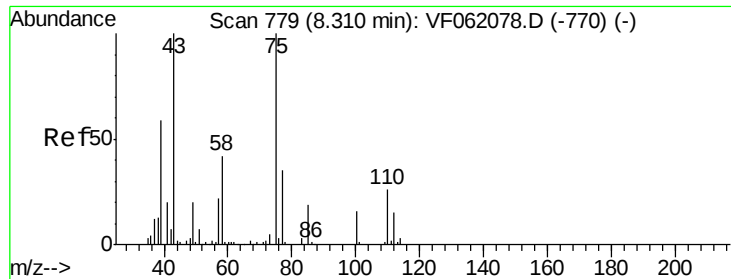
91 158.0 134.0 201.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





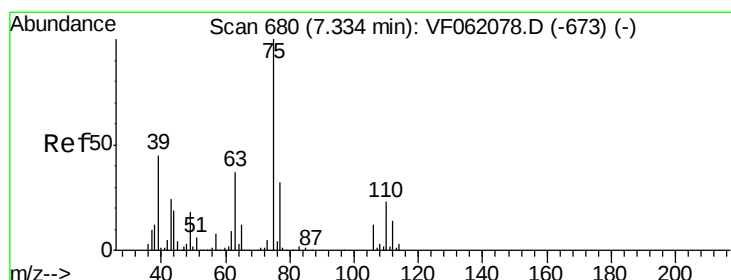
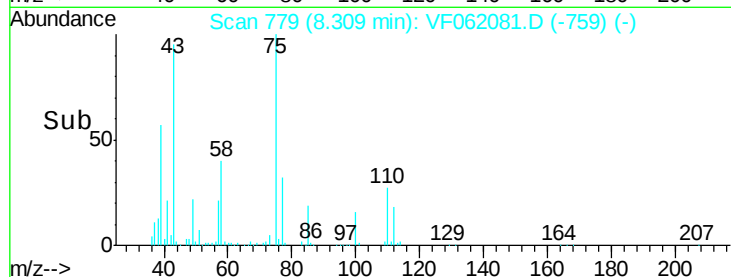
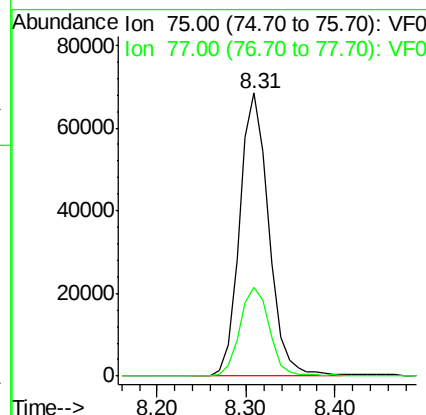
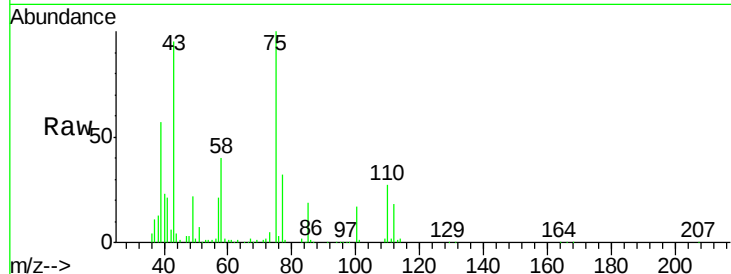
#53
t-1,3-Dichloropropene
Concen: 51.423 ug/l
RT: 8.31 min Scan# 779
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion: 75 Resp: 156363
Ion Ratio Lower Upper
75 100
77 31.5 25.5 38.3

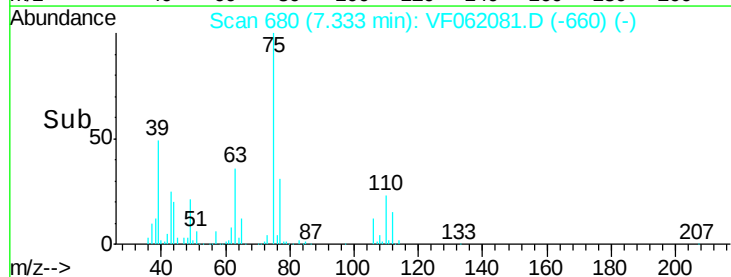
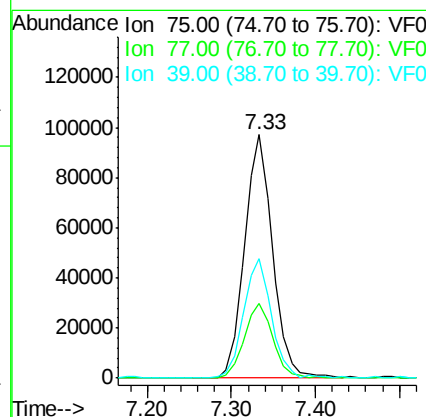
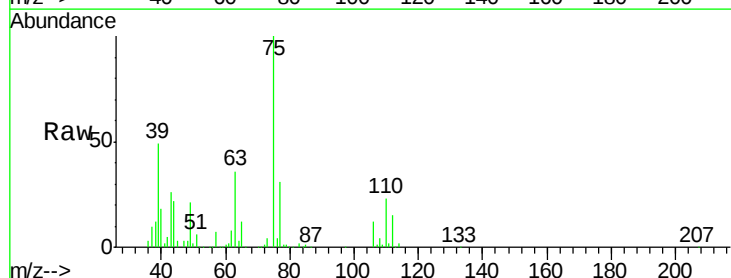
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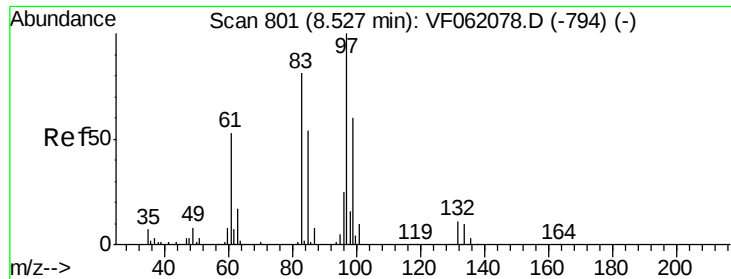
MMDadoda
3/27/2019 11:57:14 AM



#54
cis-1,3-Dichloropropene
Concen: 51.787 ug/l
RT: 7.33 min Scan# 680
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion: 75 Resp: 225314
Ion Ratio Lower Upper
75 100
77 30.8 26.4 39.6
39 49.3 38.0 57.0





#55

1,1,2-Trichloroethane

Concen: 50.303 ug/l

RT: 8.52 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

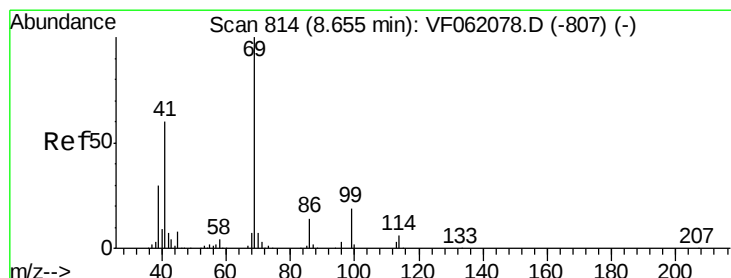
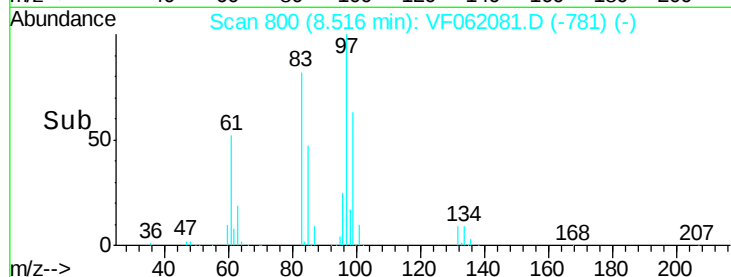
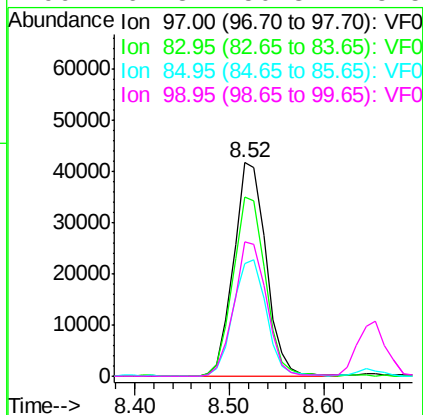
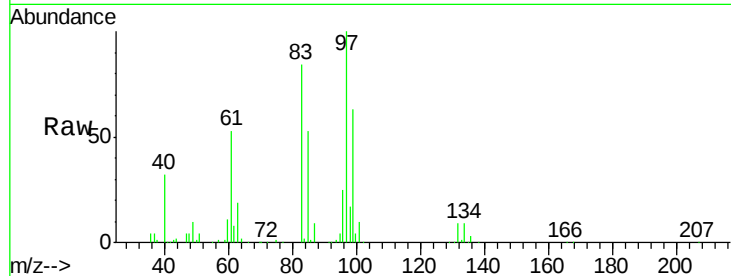
ClientSampleId :

ICVVF032219

Tot Ion:	97	Resp:	99239
Ion	Ratio	Lower	Upper
97	100		
83	83.6	69.7	104.5
85	53.0	45.8	68.6
99	62.8	50.3	75.5

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#56

Ethyl methacrylate

Concen: 49.484 ug/l

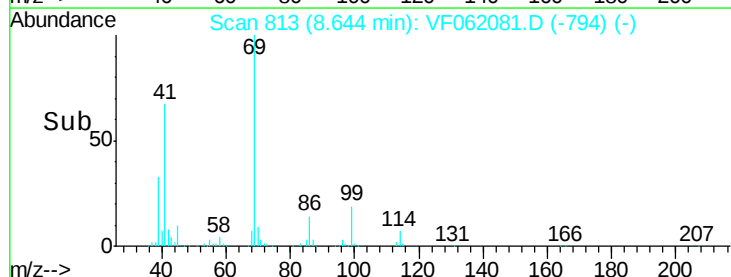
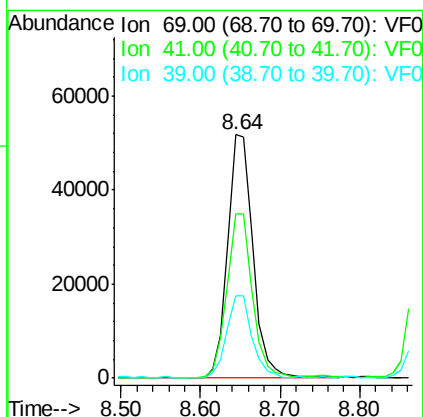
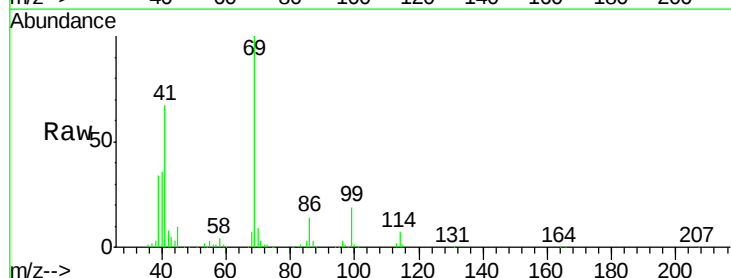
RT: 8.64 min Scan# 813

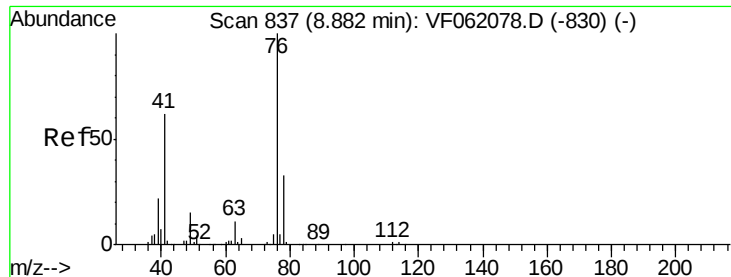
Delta R.T. -0.01 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tgt Ion:	69	Resp:	116427
Ion	Ratio	Lower	Upper
69	100		
41	67.2	54.7	82.1
39	34.0	27.9	41.9





#57

1,3-Dichloropropane

Concen: 50.136 ug/l

RT: 8.89 min Scan# 838

Delta R.T. 0.01 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion: 76 Resp: 164161

Ion Ratio Lower Upper

76 100

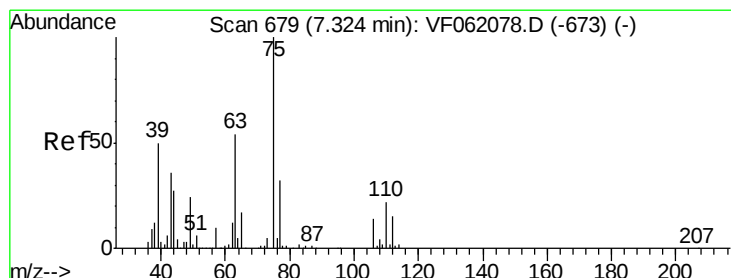
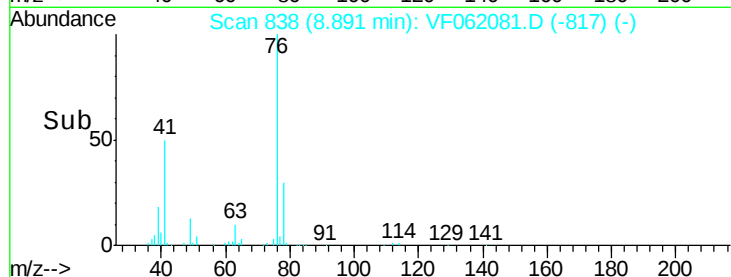
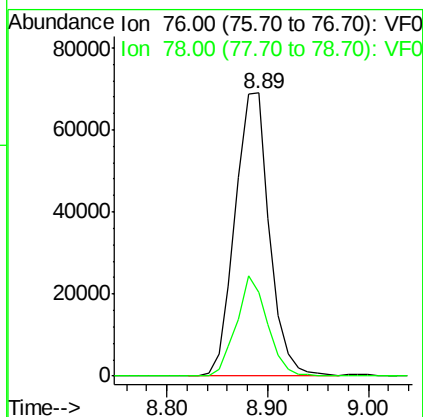
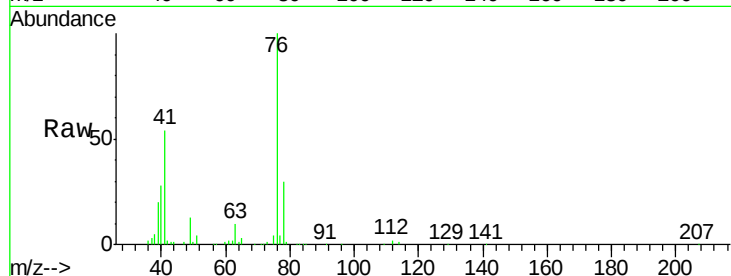
78 29.6 25.4 38.2

Manual Integrations

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MMDadoda

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#58

2-Chloroethyl Vinyl ether

Concen: 265.530 ug/l

RT: 7.32 min Scan# 679

Delta R.T. -0.00 min

Lab File: VF062081.D

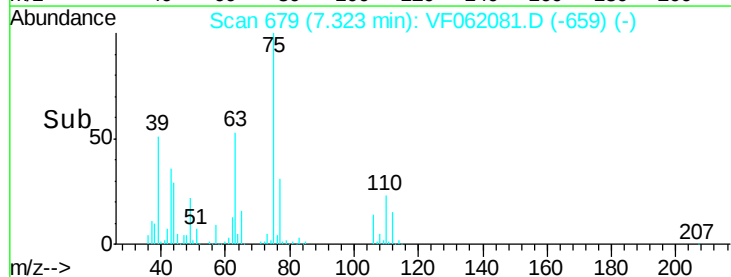
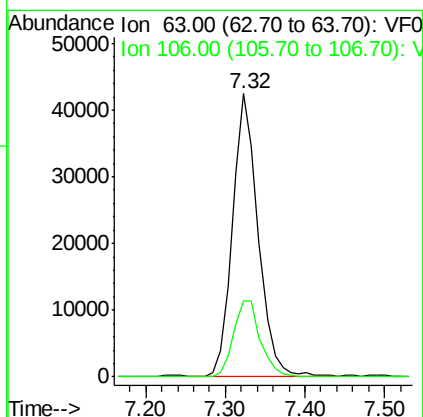
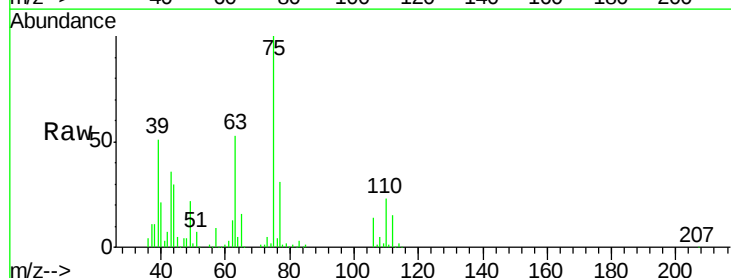
Acq: 22 Mar 2019 14:12

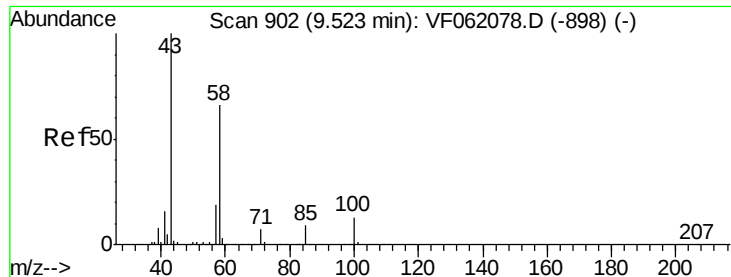
Tgt Ion: 63 Resp: 94801

Ion Ratio Lower Upper

63 100

106 27.0 20.9 31.3





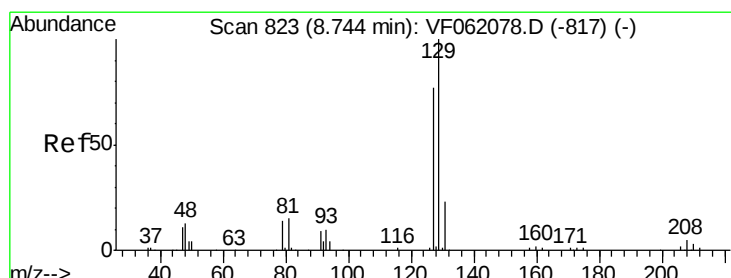
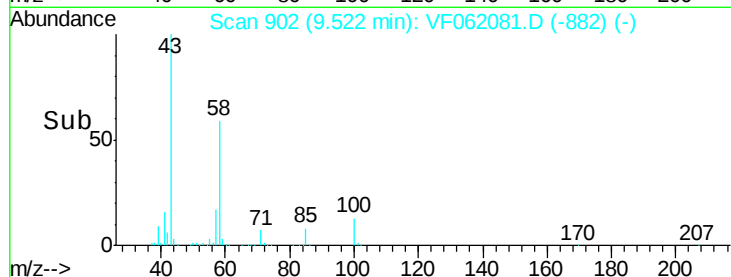
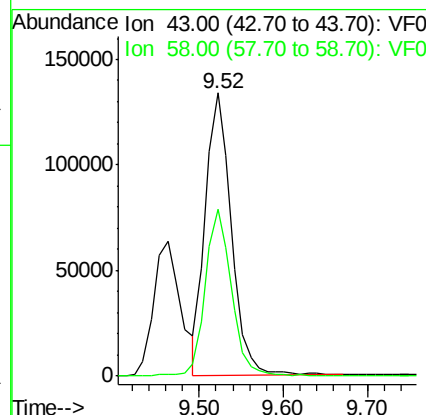
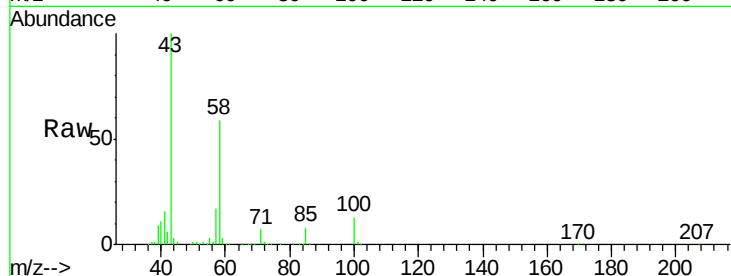
#59
2-Hexanone
Concen: 246.169 ug/l
RT: 9.52 min Scan# 902
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion: 43 Resp: 285884
Ion Ratio Lower Upper
43 100
58 58.8 28.4 85.2

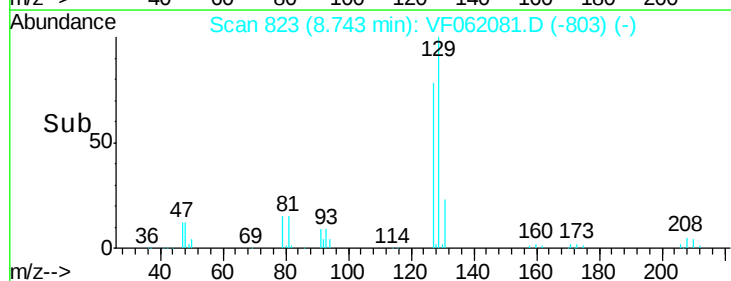
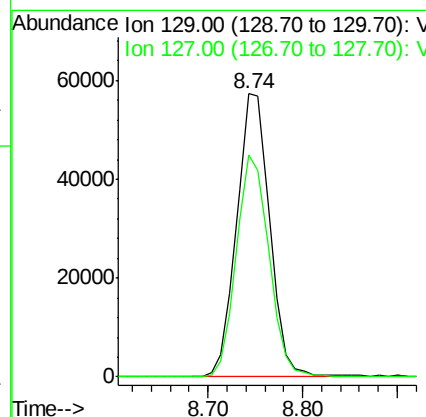
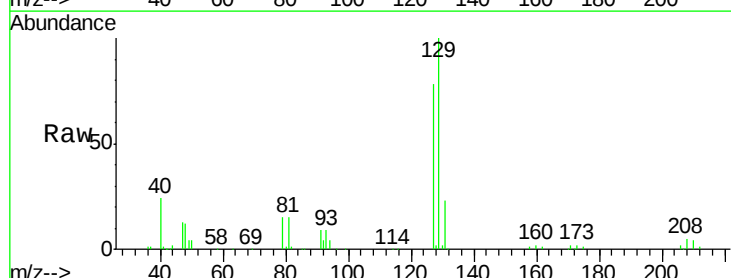
Manual Integrations
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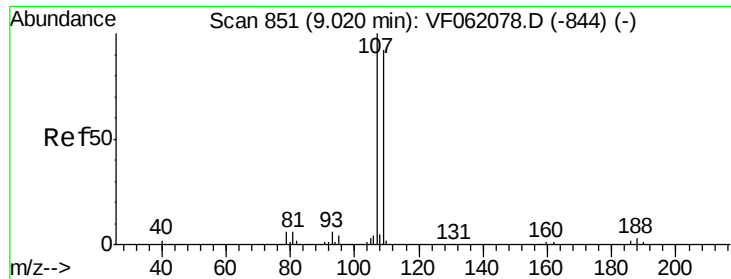
MMDadoda
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#60
Dibromochloromethane
Concen: 50.683 ug/l
RT: 8.74 min Scan# 823
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion: 129 Resp: 139004
Ion Ratio Lower Upper
129 100
127 78.4 37.3 111.8





#61

1,2-Dibromoethane

Concen: 50.901 ug/l

RT: 9.02 min Scan# 851

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion: 107 Resp: 107135

Ion Ratio Lower Upper

107 100

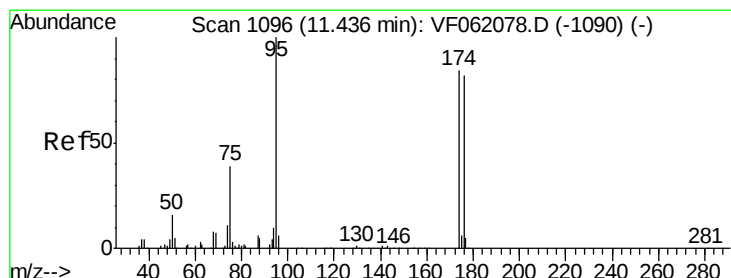
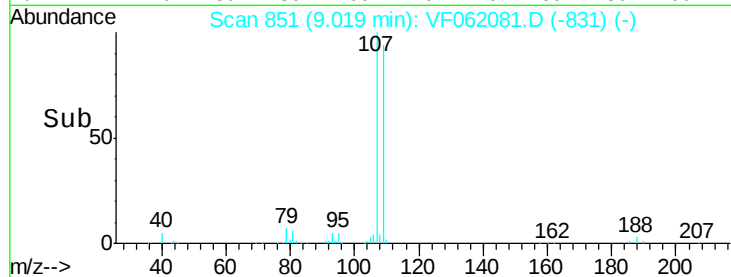
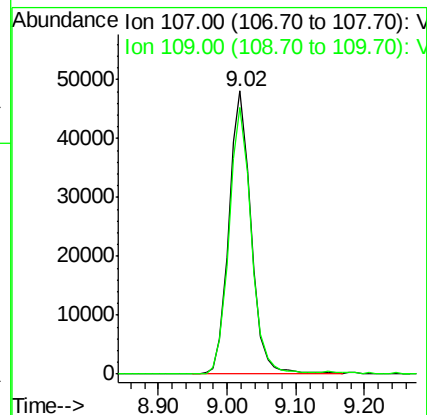
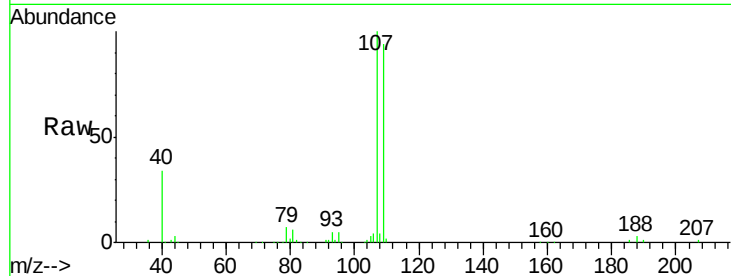
109 94.4 72.8 109.2

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#62

4-Bromofluorobenzene

Concen: 50.652 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

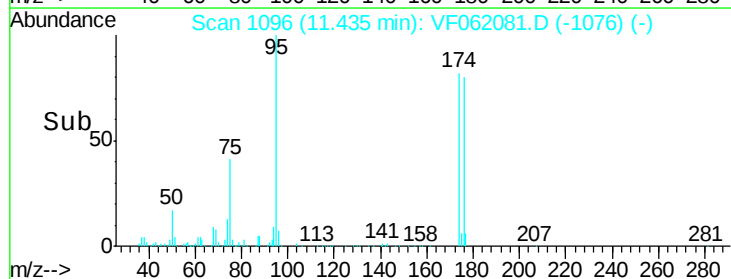
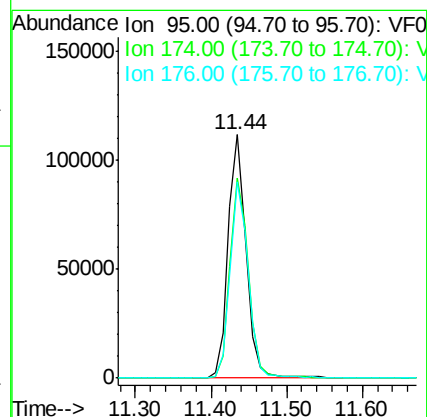
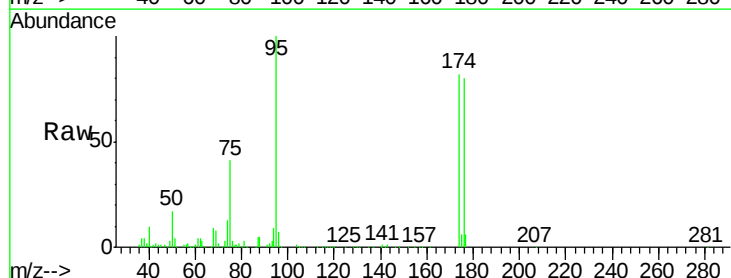
Tgt Ion: 95 Resp: 185430

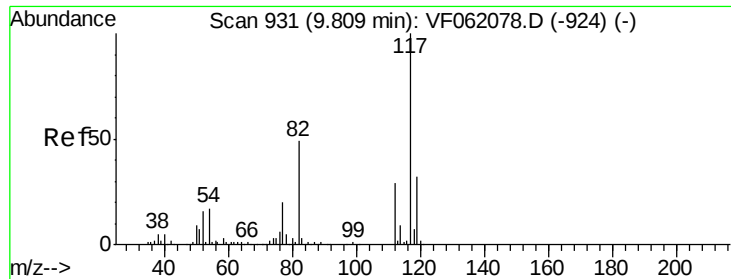
Ion Ratio Lower Upper

95 100

174 82.2 0.0 149.4

176 80.4 0.0 143.4





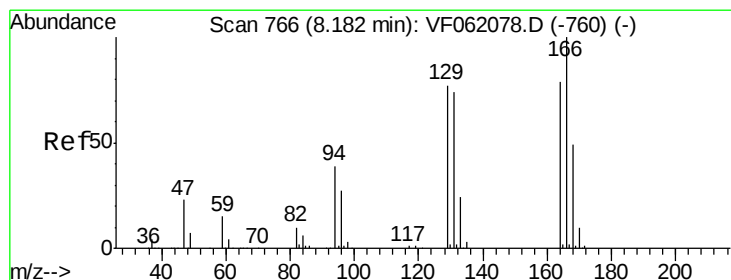
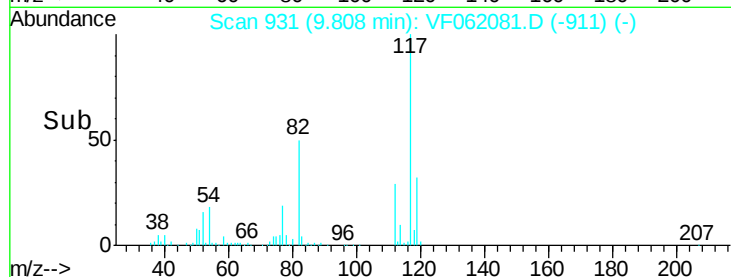
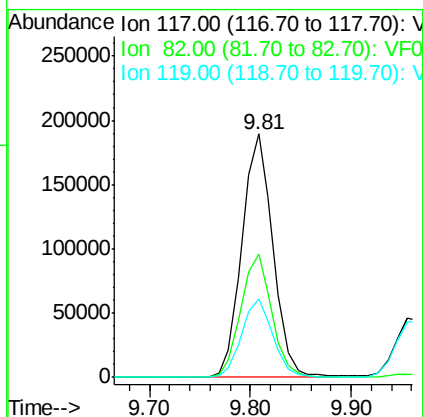
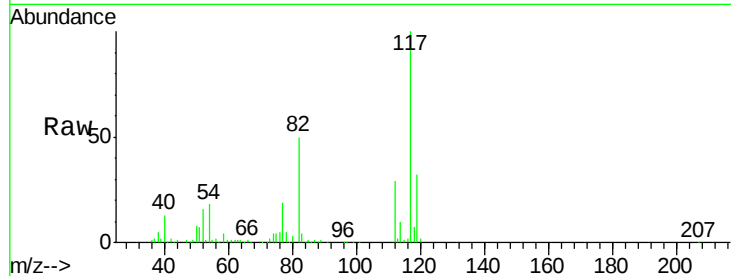
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Resp	Lower	Upper
117	100	405651		
82	50.5		42.5	63.7
119	32.4		25.4	38.0

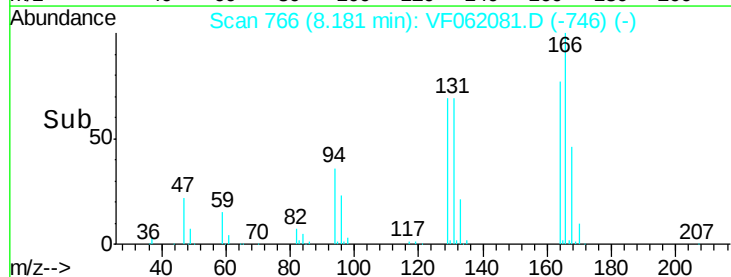
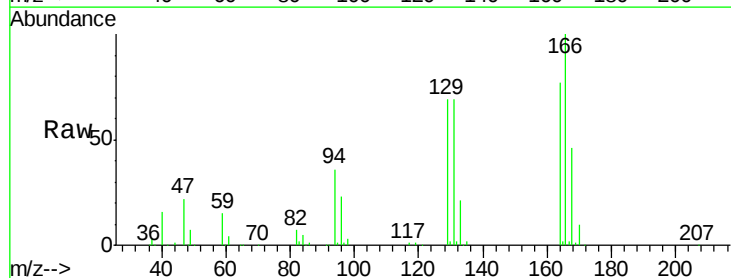
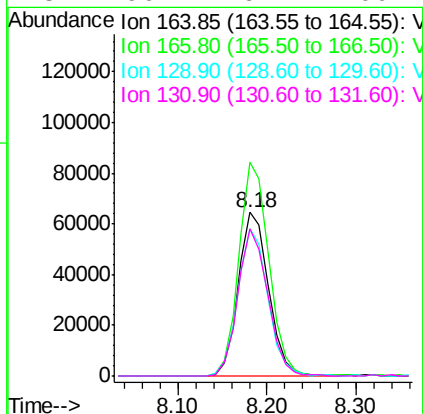
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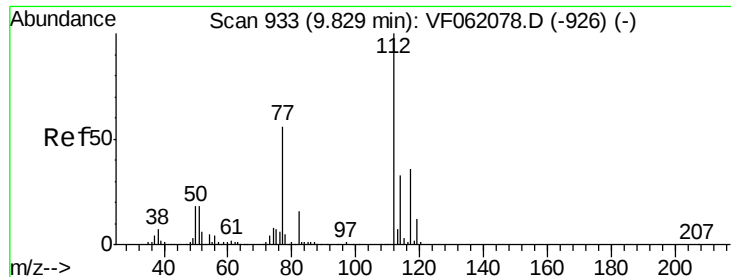
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#64
Tetrachloroethene
Concen: 48.848 ug/l
RT: 8.18 min Scan# 766
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	153090		
166	130.6		100.0	150.0
129	90.1		72.4	108.6
131	90.4		67.1	100.7





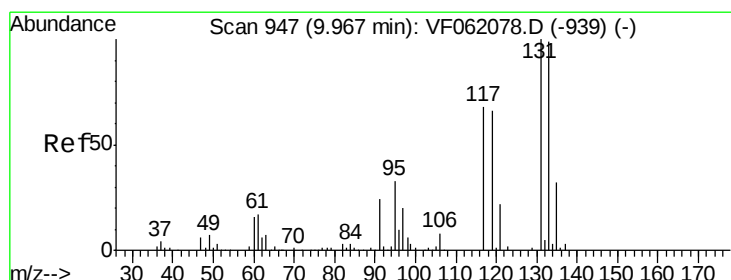
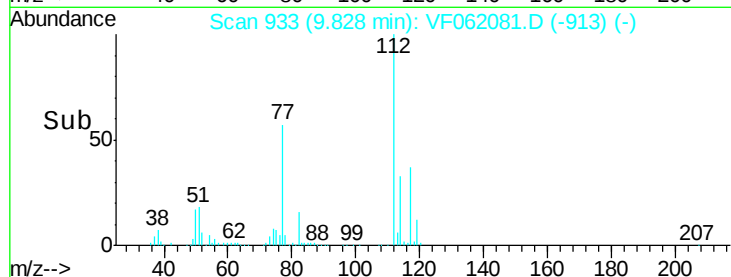
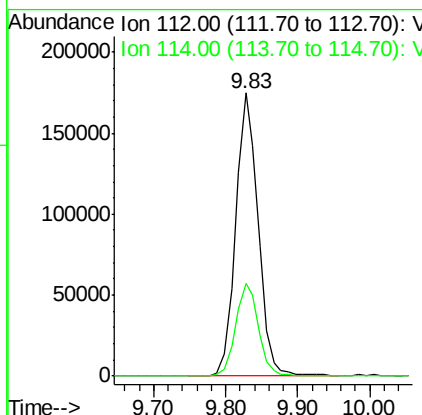
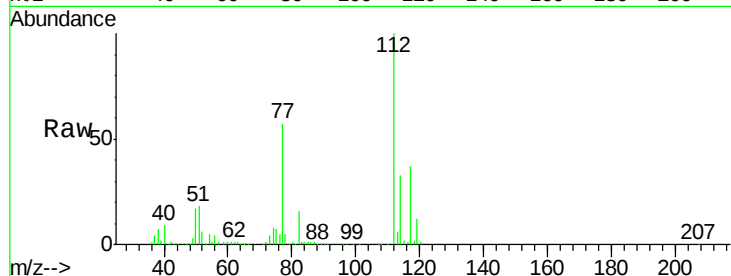
#65
Chlorobenzene
Concen: 50.069 ug/l
RT: 9.83 min Scan# 933
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.9	40.3

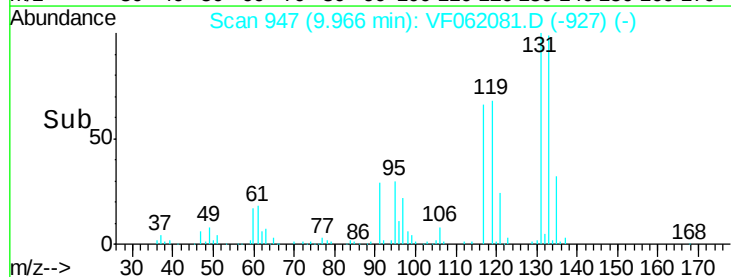
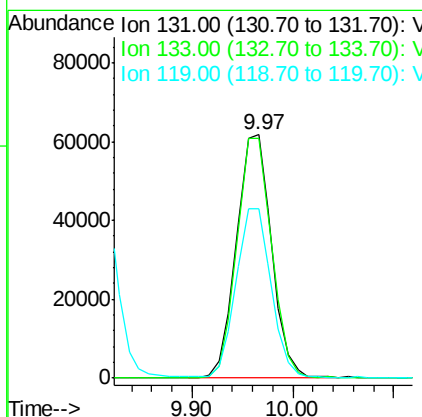
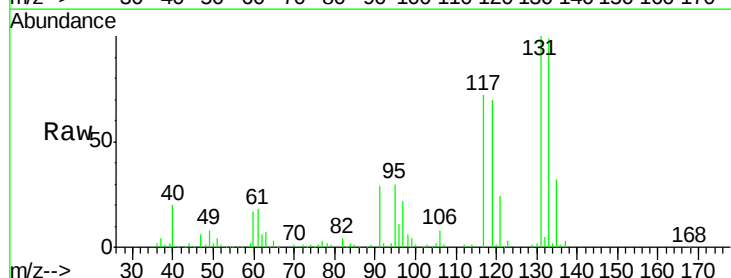
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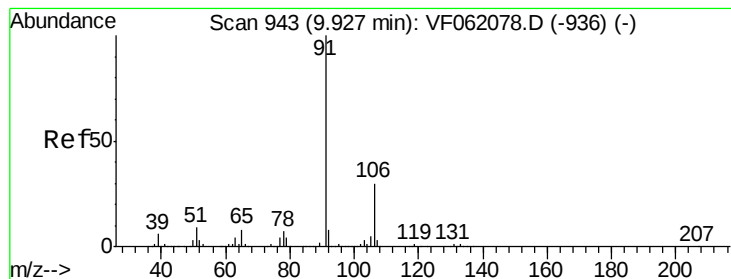
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#66
1,1,1,2-Tetrachloroethane
Concen: 49.171 ug/l
RT: 9.97 min Scan# 947
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
131	100		
133	98.7	48.0	144.2
119	69.6	35.9	107.7





#67

Ethyl Benzene

Concen: 51.546 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tot Ion: 91 Resp: 680398

Ion Ratio Lower Upper

91 100

106 29.9 24.4 36.6

Instrument :

MSVOA_F

ClientSampleId :

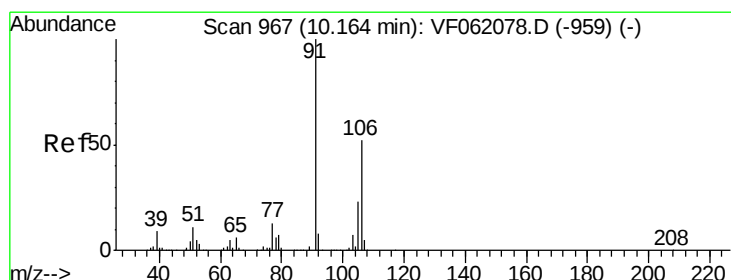
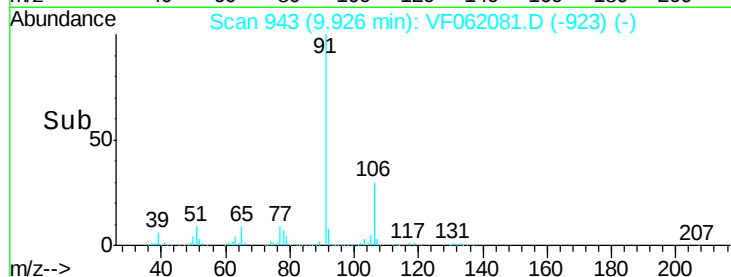
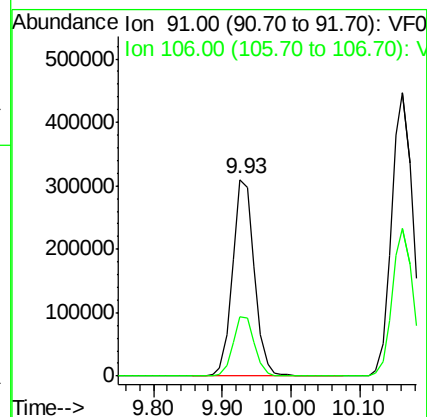
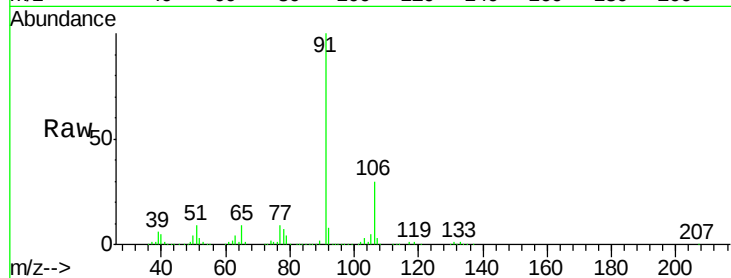
ICVVF032219

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#68

m/p-Xylenes

Concen: 100.284 ug/l

RT: 10.16 min Scan# 967

Delta R.T. -0.00 min

Lab File: VF062081.D

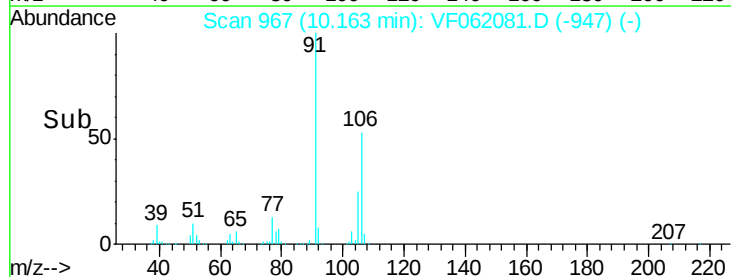
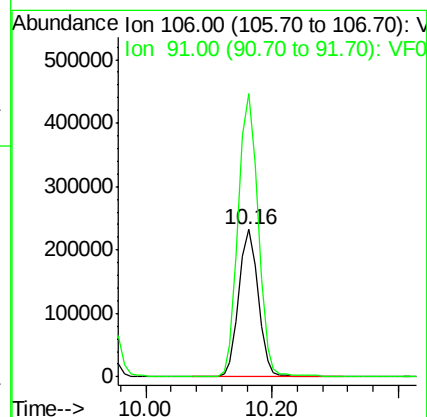
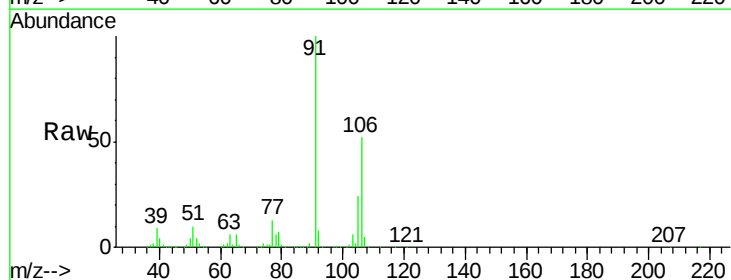
Acq: 22 Mar 2019 14:12

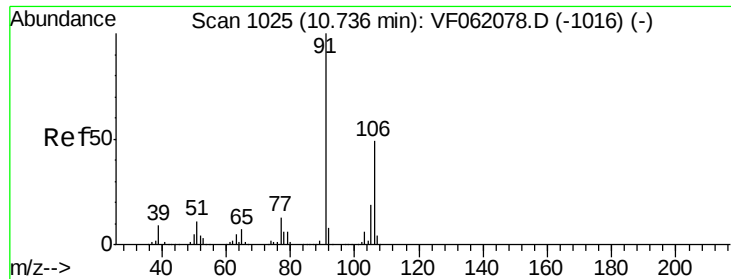
Tgt Ion:106 Resp: 494750

Ion Ratio Lower Upper

106 100

91 192.3 151.9 227.9





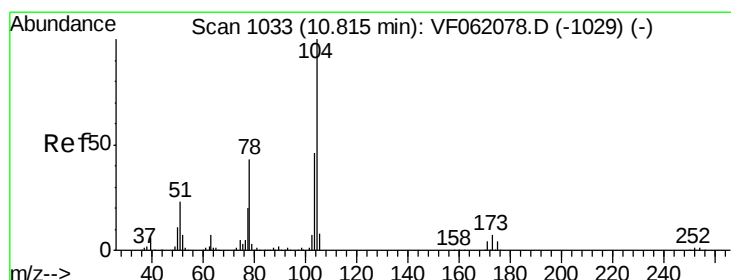
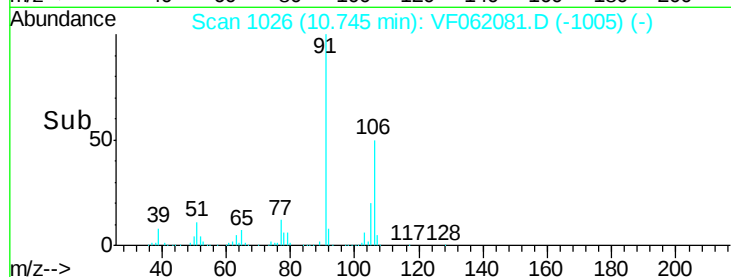
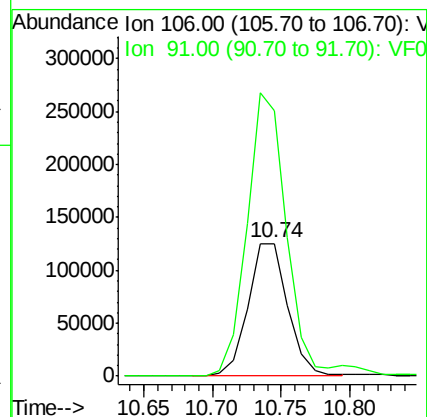
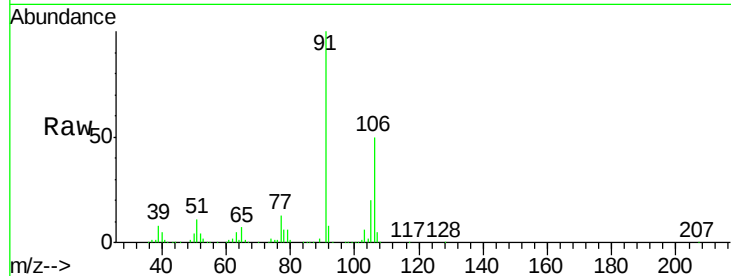
#69
o-Xylene
Concen: 49.022 ug/l
RT: 10.74 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Resp	Lower	Upper
106	100	253300		
91	199.4	102.3	306.8	

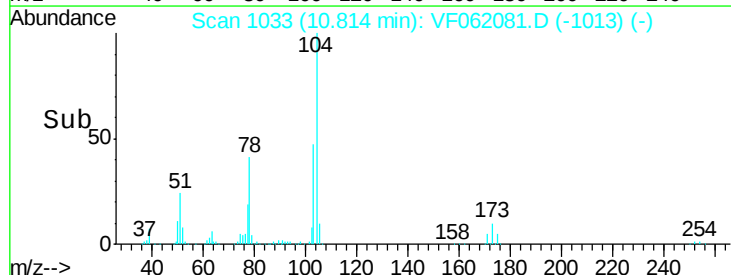
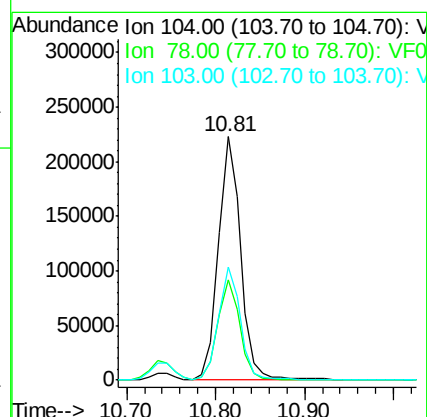
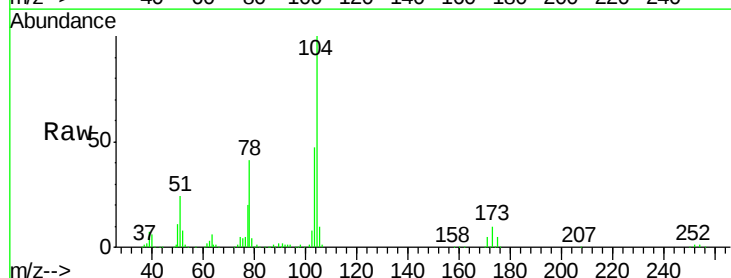
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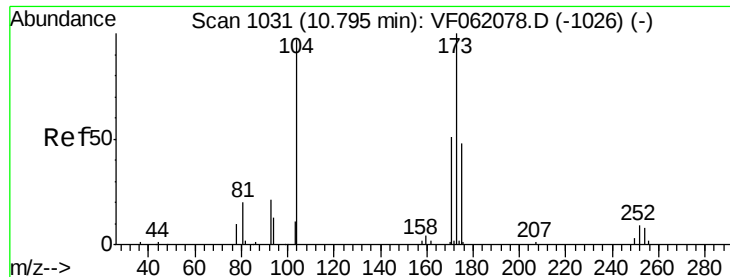
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#70
Styrene
Concen: 49.507 ug/l
RT: 10.81 min Scan# 1033
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	387587		
78	41.2	34.7	52.1	
103	46.6	36.6	54.8	





#71

Bromoform

Concen: 48.067 ug/l

RT: 10.80 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion:173 Resp: 74957

Ion Ratio Lower Upper

173 100

175 50.2 23.7 71.1

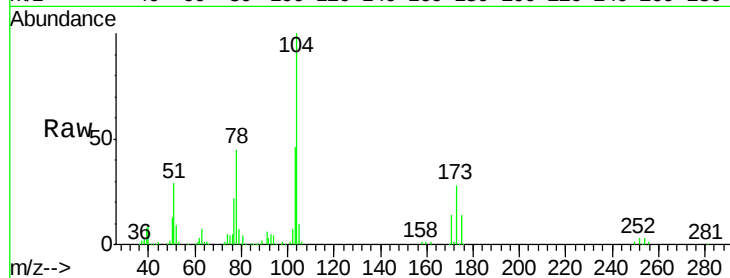
254 11.0 7.8 11.8

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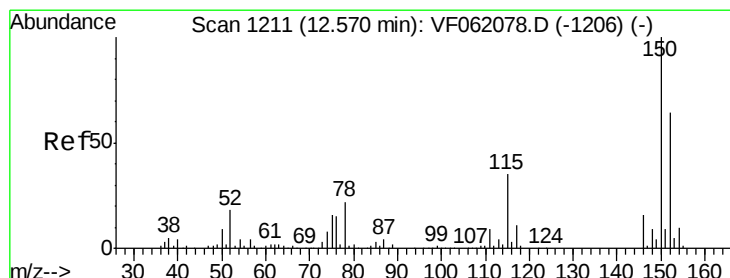
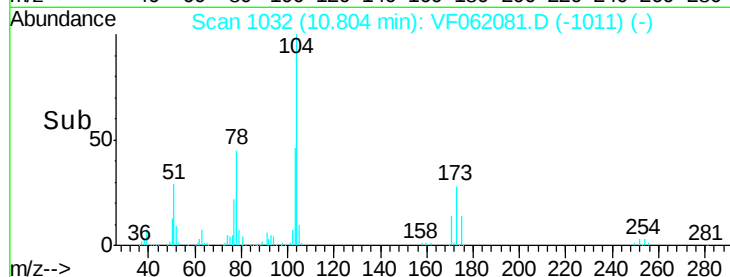
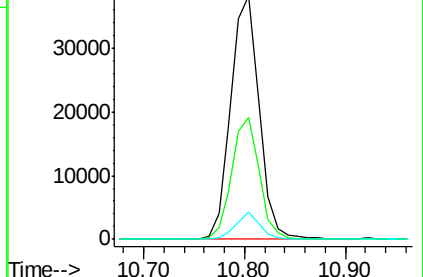
3/27/2019 11:57:14 AM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

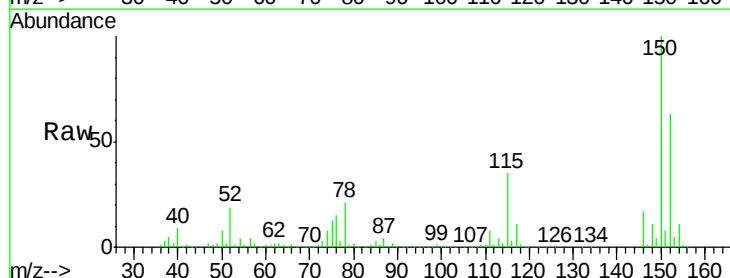
Tgt Ion:152 Resp: 204340

Ion Ratio Lower Upper

152 100

115 56.5 27.3 81.9

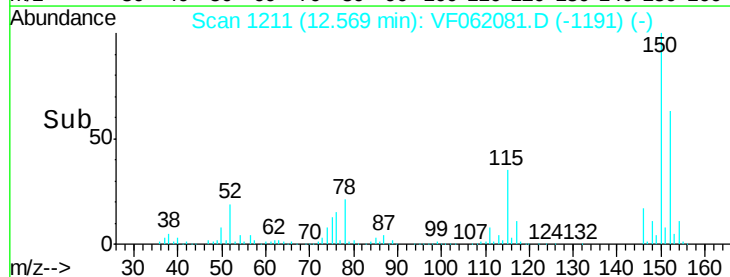
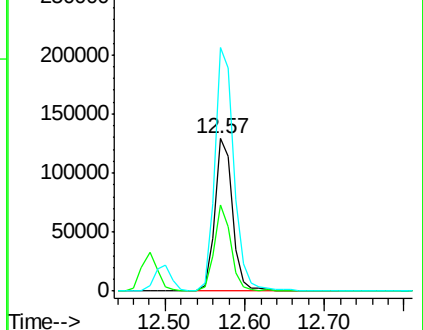
150 159.9 0.0 316.2

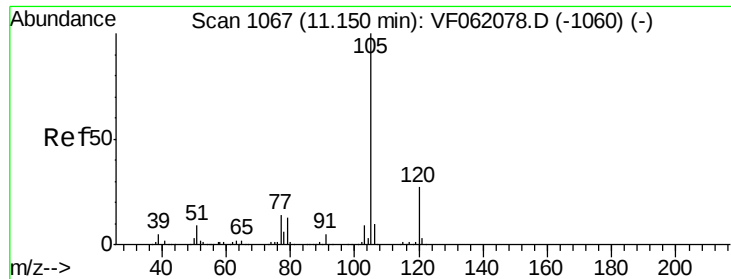


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 52.814 ug/l

RT: 11.15 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion:105 Resp: 759396

Ion Ratio Lower Upper

105 100

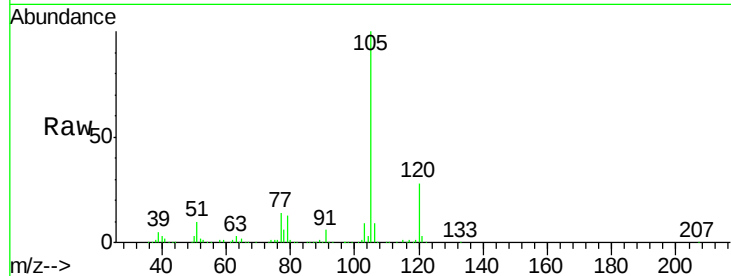
120 27.8 13.8 41.3

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.15

400000

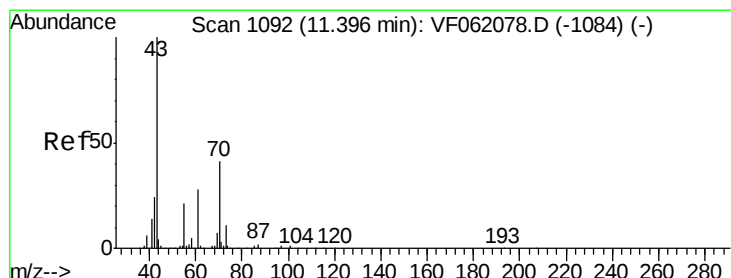
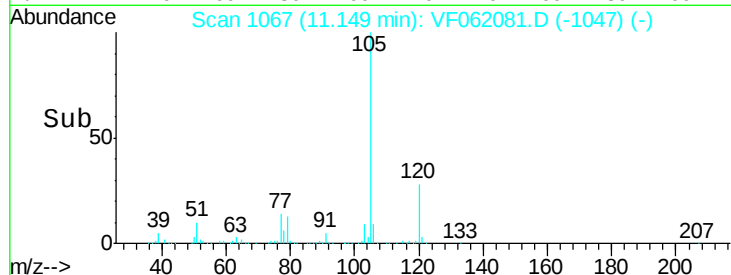
300000

200000

100000

0

Time--> 11.00 11.10 11.20 11.30



#74

N-ethyl acetate

Concen: 52.524 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tgt Ion: 43 Resp: 179954

Ion Ratio Lower Upper

43 100

70 42.4 31.9 47.9

55 22.1 17.9 26.9

61 29.7 22.2 33.2

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

11.40

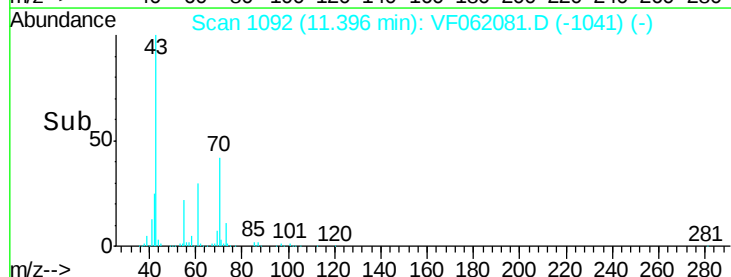
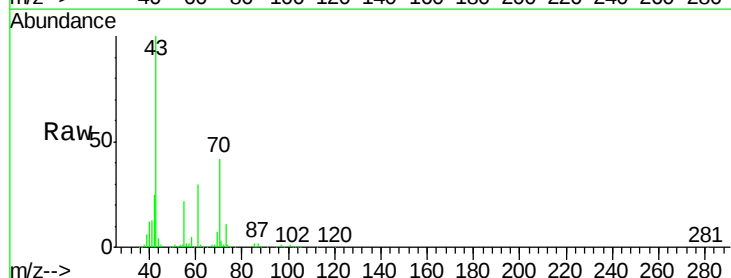
150000

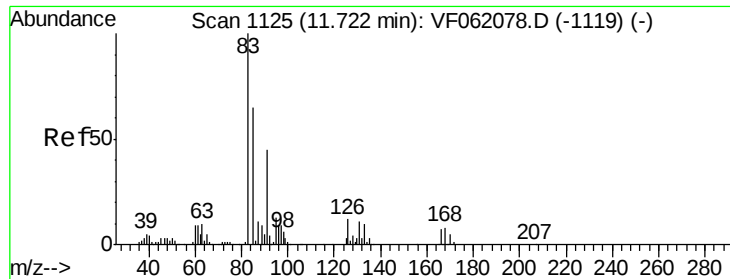
100000

50000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 50.866 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

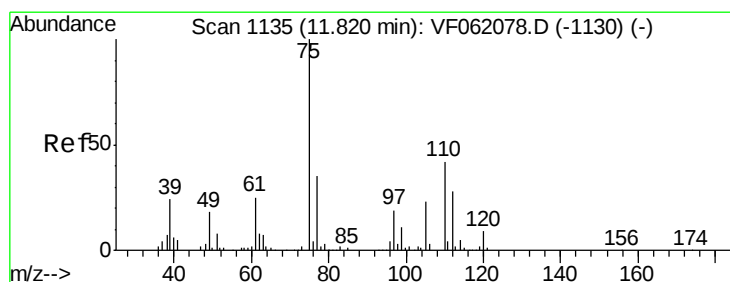
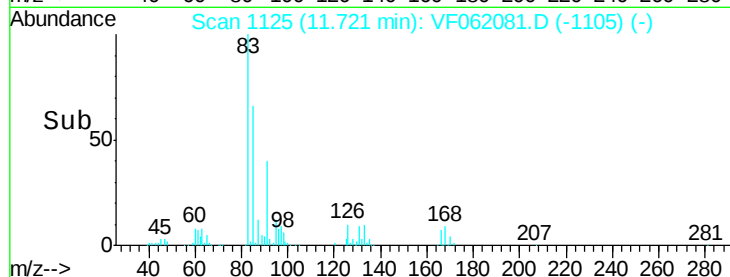
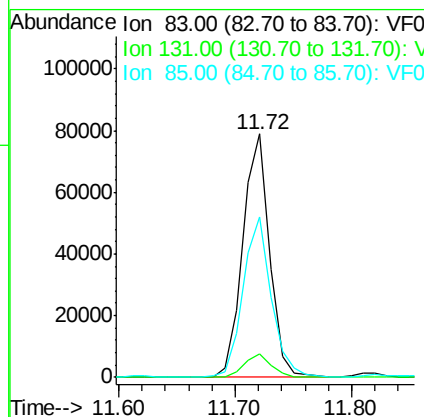
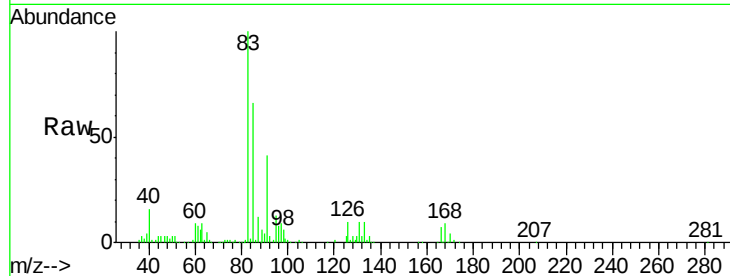
ClientSampleId :

ICVVF032219

Tot Ion	83	Resp	125581
Ion Ratio	Lower	Upper	
83	100		
131	9.9	4.9	14.7
85	65.9	35.3	105.9

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#76

1,2,3-Trichloropropane

Concen: 46.621 ug/l

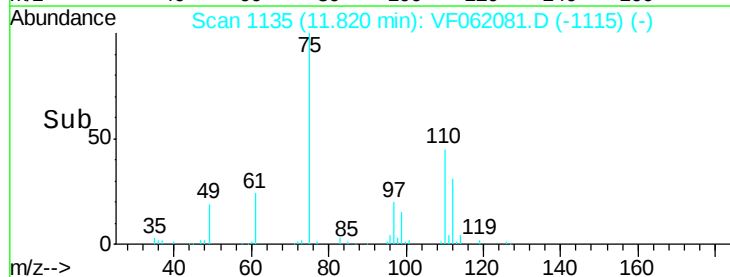
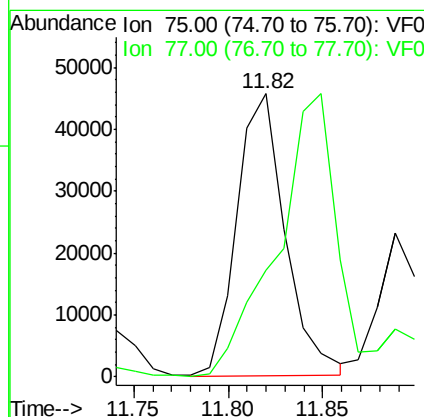
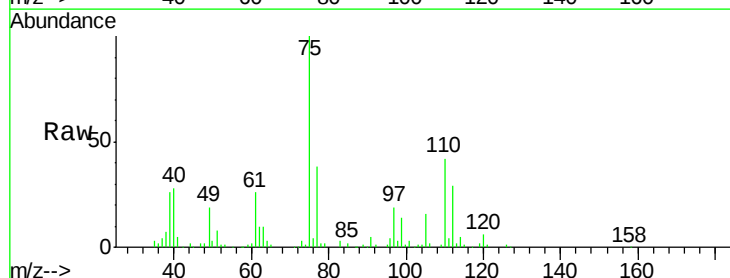
RT: 11.82 min Scan# 1135

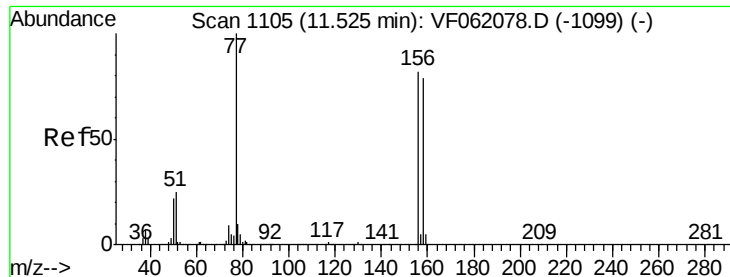
Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tgt Ion	75	Resp	81002
Ion Ratio	Lower	Upper	
75	100		
77	37.9	16.4	49.2





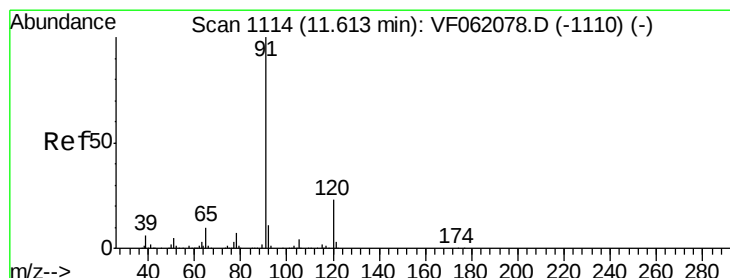
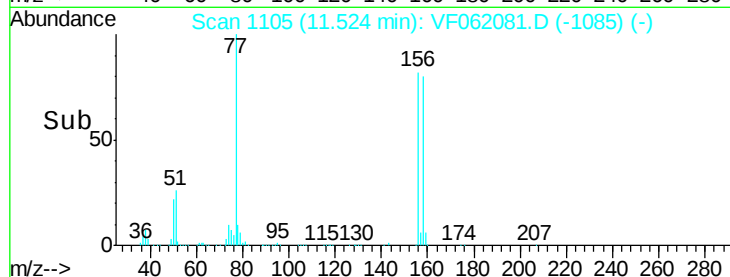
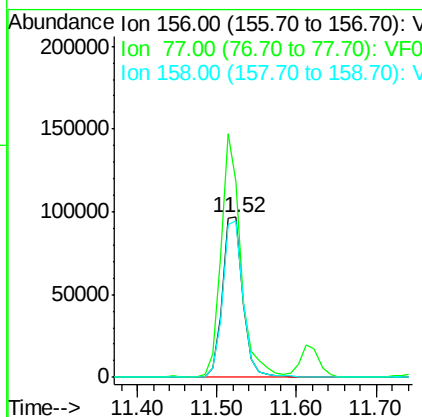
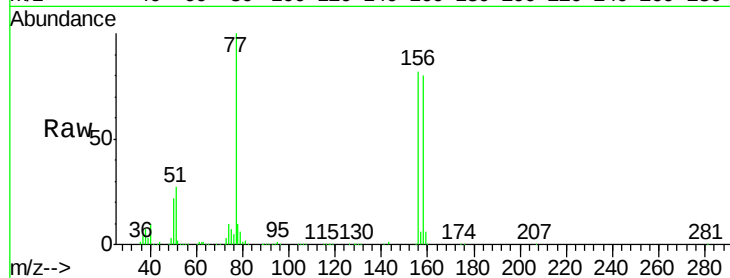
#77
Bromobenzene
Concen: 50.388 ug/l
RT: 11.52 min Scan# 1105
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		177009		
77	122.4	67.0	201.0		
158	98.2	48.9	146.7		

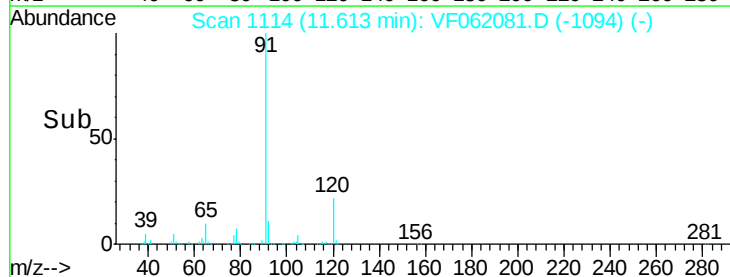
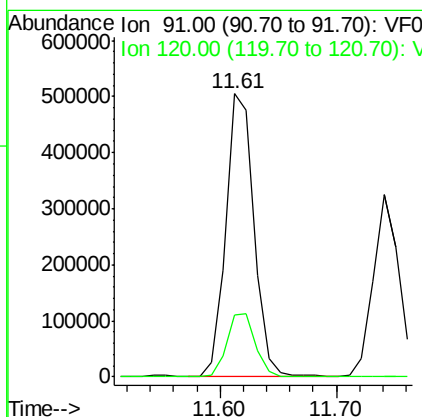
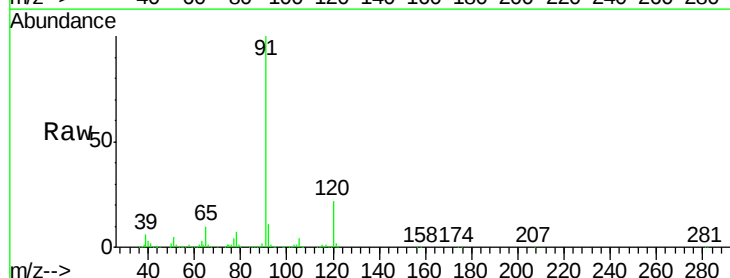
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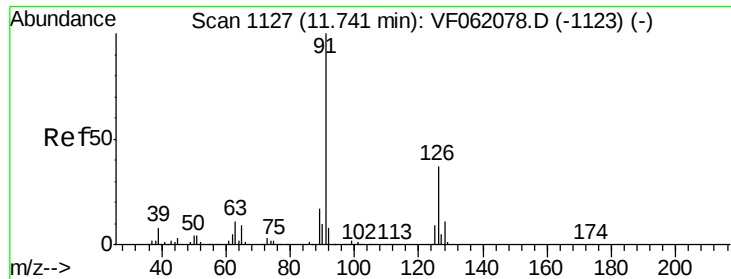
MMDadoda
3/27/2019 11:57:14 AM



#78
n-propylbenzene
Concen: 50.369 ug/l
RT: 11.61 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		840977		
120	22.1	11.8	35.3		





#79

2-Chlorotoluene

Concen: 53.139 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

ClientSampleId :

ICVVF032219

Tot Ion: 91 Resp: 493143

Ion Ratio Lower Upper

91 100

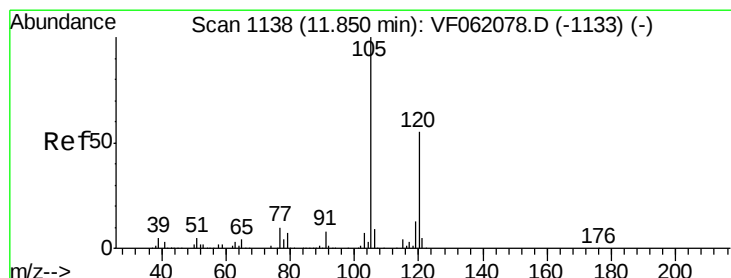
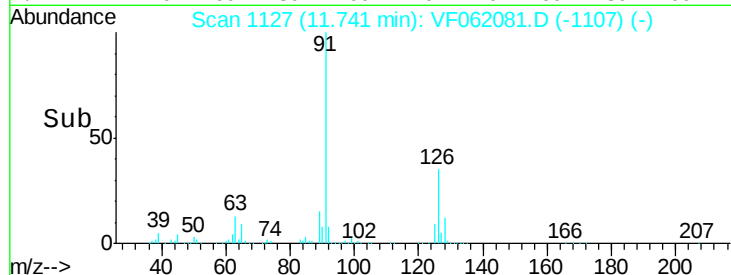
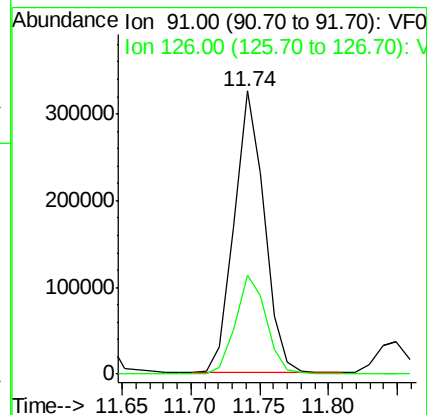
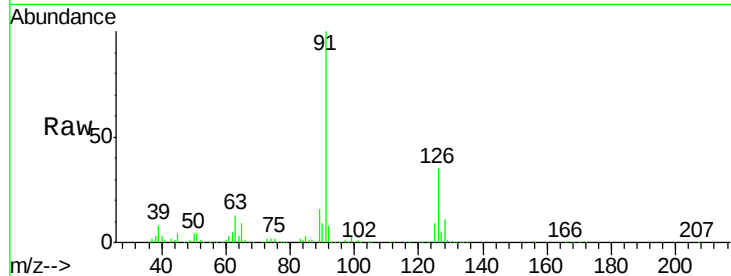
126 34.9 18.4 55.2

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 49.478 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VF062081.D

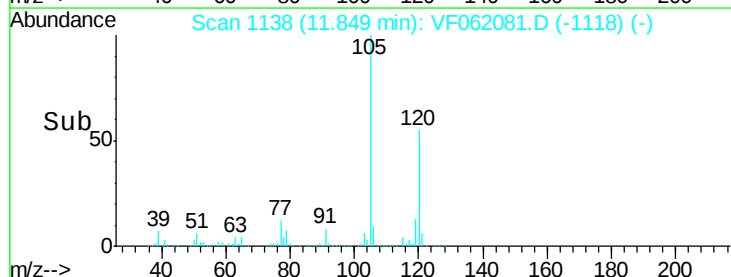
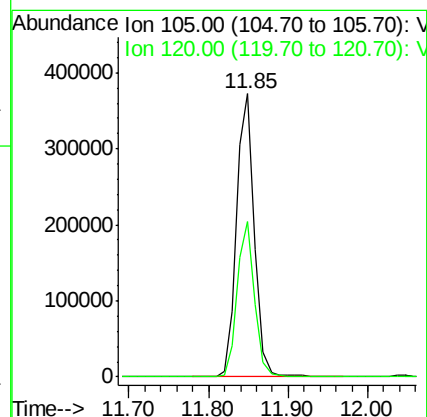
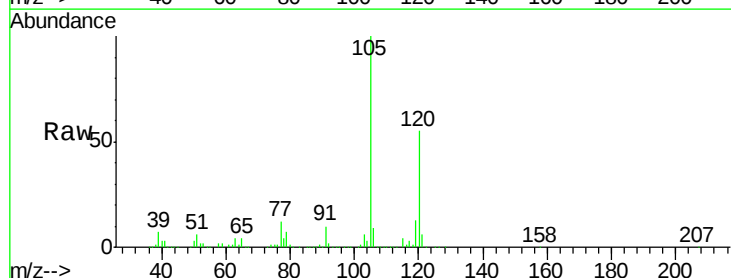
Acq: 22 Mar 2019 14:12

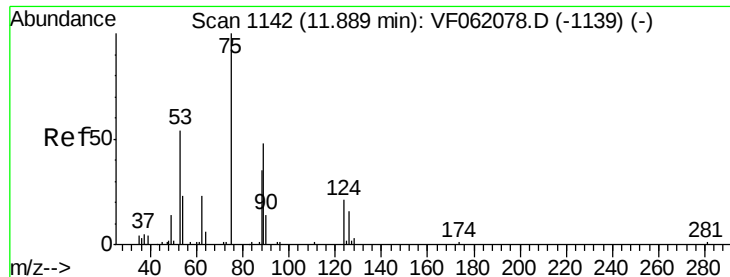
Tgt Ion: 105 Resp: 585177

Ion Ratio Lower Upper

105 100

120 55.0 26.6 79.7





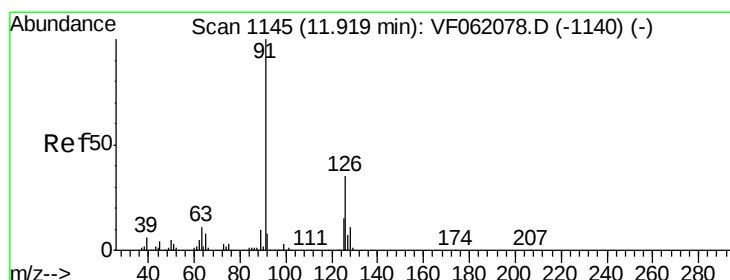
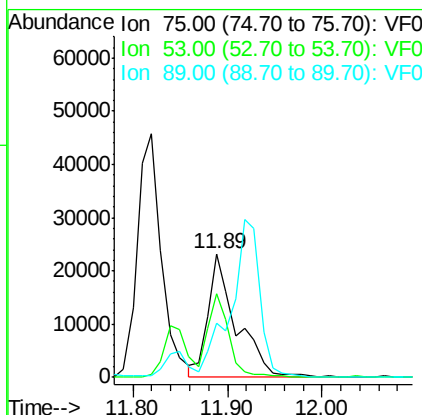
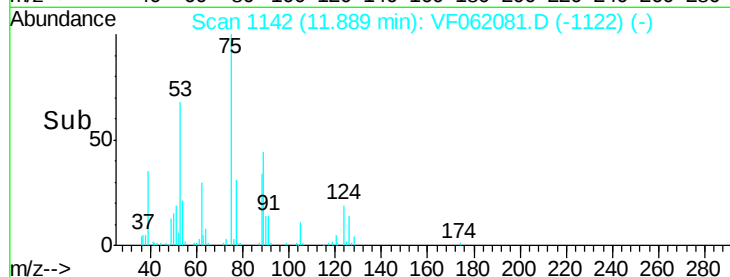
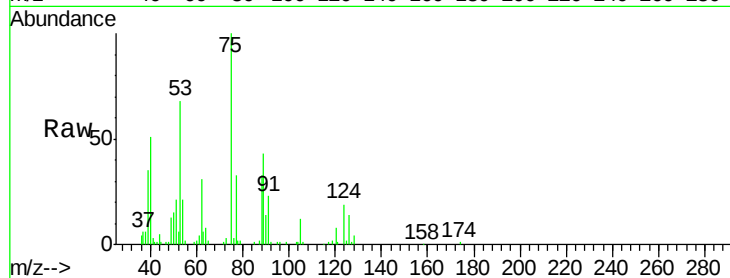
#81
trans-1,4-Dichloro-2-butene
Concen: 52.704 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Lower	Upper
75	100		
53	67.8	49.0	73.6
89	43.5	37.1	55.7

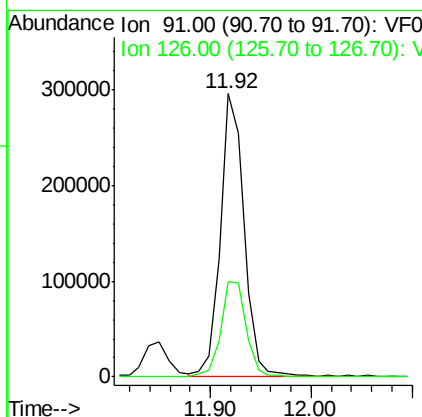
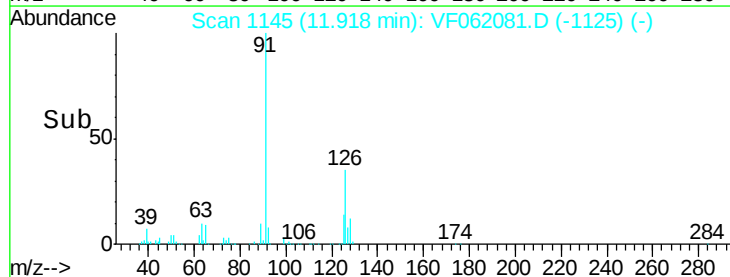
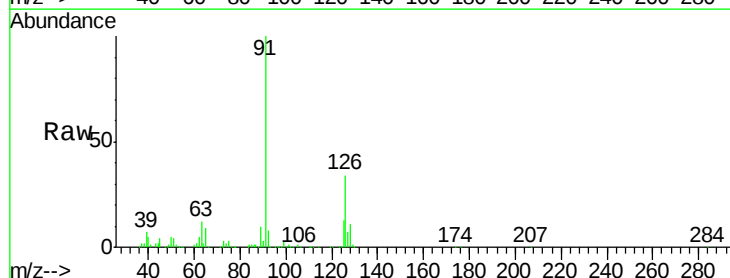
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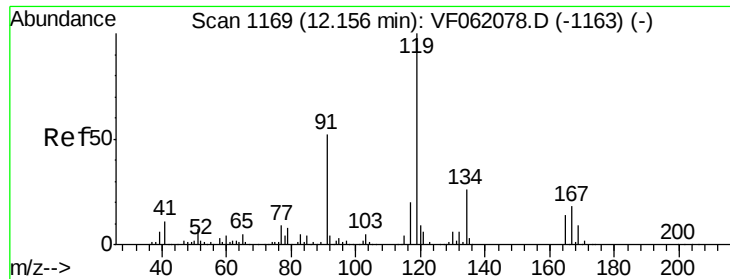
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#82
4-Chlorotoluene
Concen: 50.384 ug/l
RT: 11.92 min Scan# 1145
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.5	18.1	54.1





#83

tert-Butylbenzene

Concen: 51.995 ug/l

RT: 12.15 min Scan# 1169

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

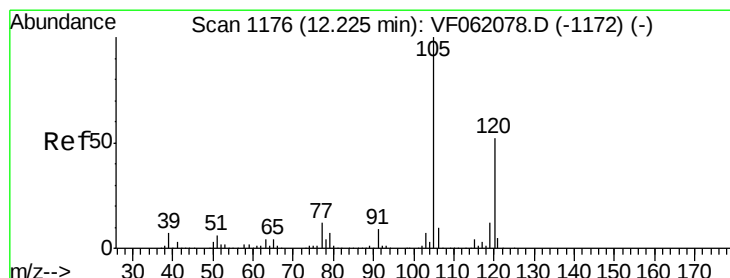
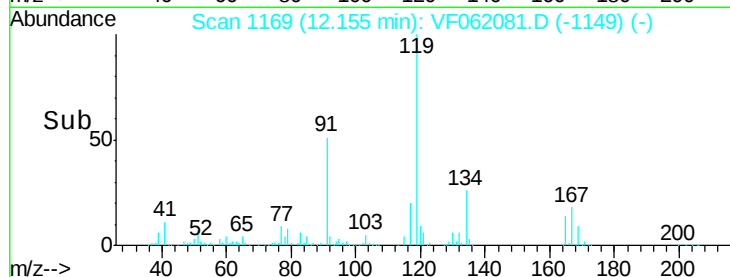
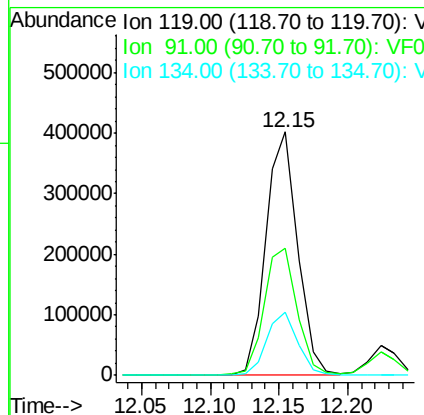
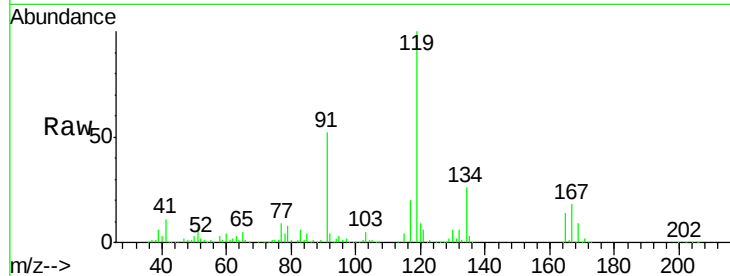
ClientSampleId :

ICVVF032219

Tot Ion:	119	Resp:	643740
Ion	Ratio	Lower	Upper
119	100		
91	52.2	27.9	83.6
134	26.1	12.3	36.8

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#84

1,2,4-Trimethylbenzene

Concen: 48.938 ug/l

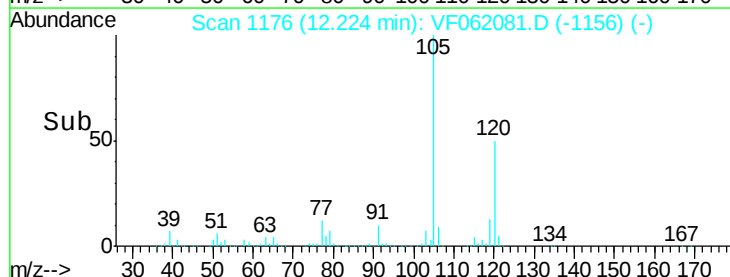
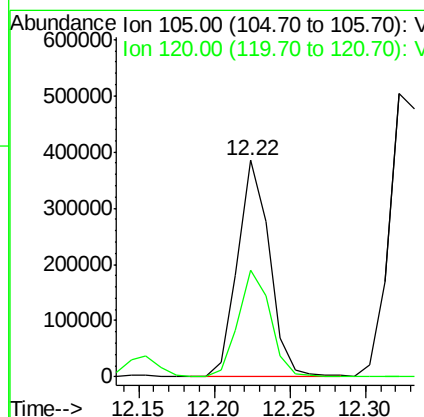
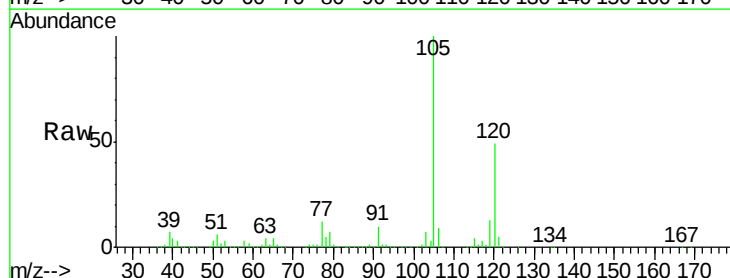
RT: 12.22 min Scan# 1176

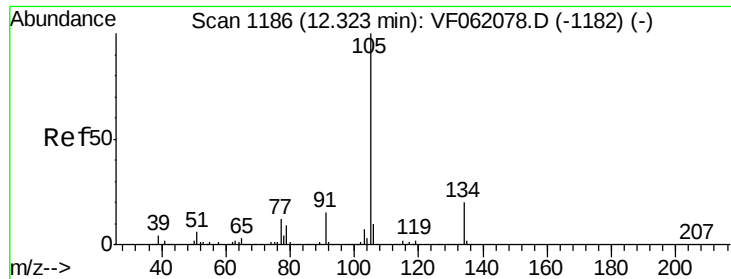
Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tgt Ion:	105	Resp:	567404
Ion	Ratio	Lower	Upper
105	100		
120	49.5	25.9	77.8





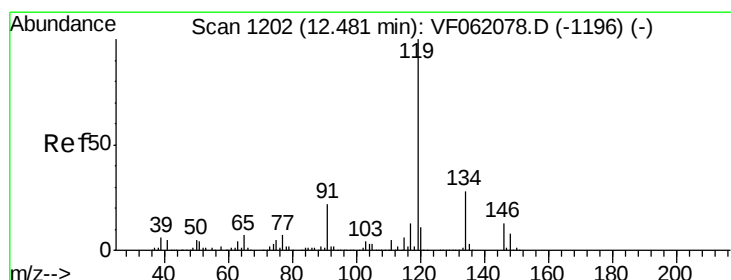
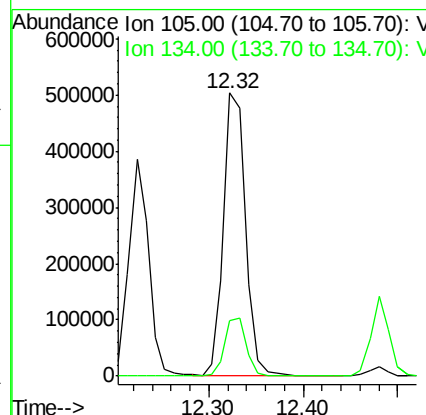
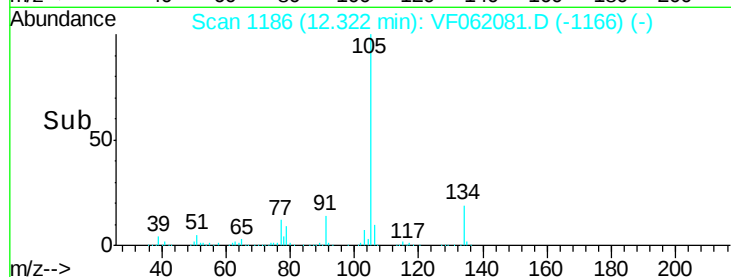
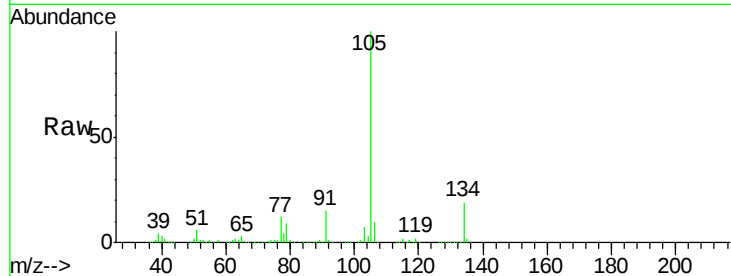
#85
 sec-Butylbenzene
 Concen: 50.805 ug/l
 RT: 12.32 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF032219

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.5	10.0	29.8

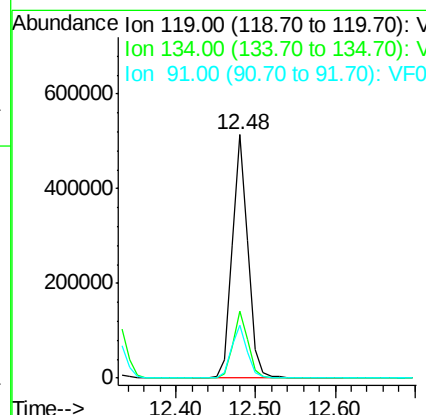
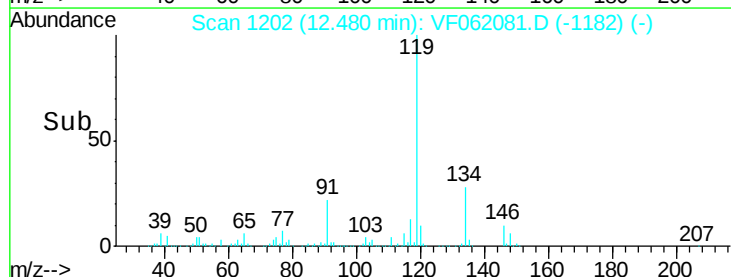
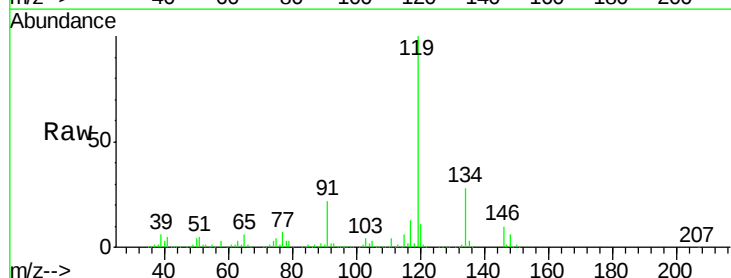
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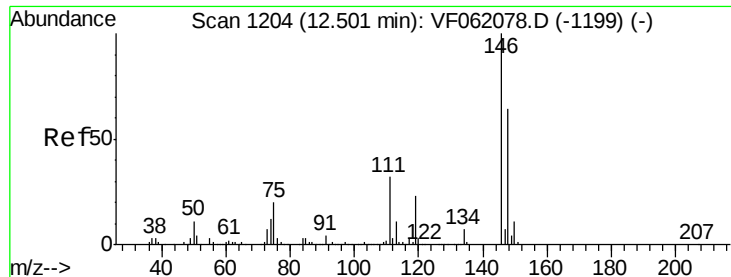
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#86
 p-Isopropyltoluene
 Concen: 51.477 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.7	13.9	41.7
91	21.8	10.4	31.1





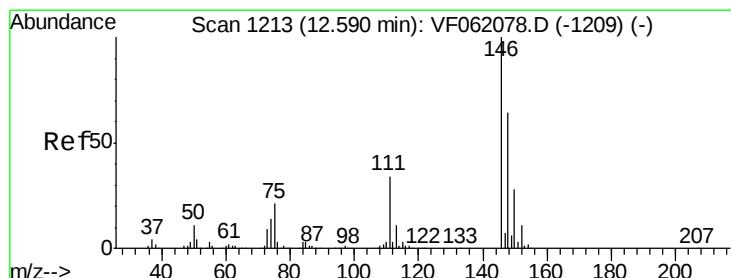
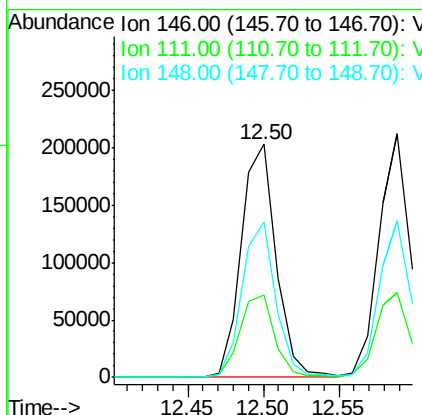
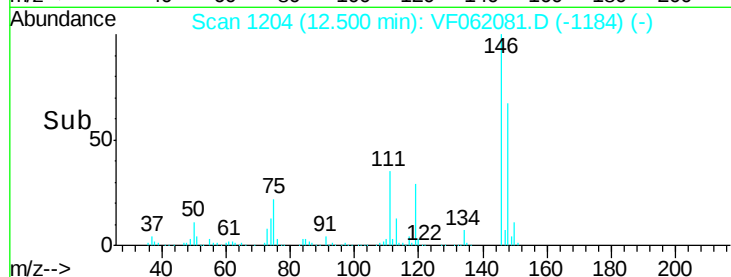
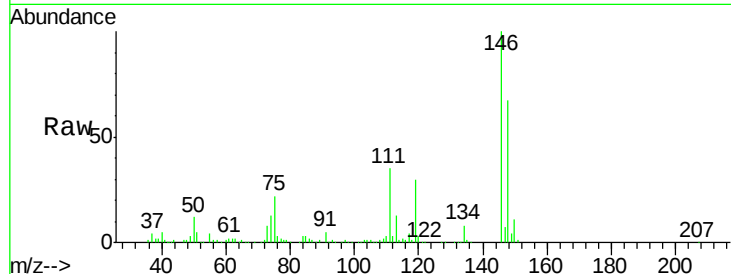
#87
 1,3-Dichlorobenzene
 Concen: 49.893 ug/l
 RT: 12.50 min Scan# 1204
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVV032219

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.5	18.6	55.8
148	66.8	31.3	93.9

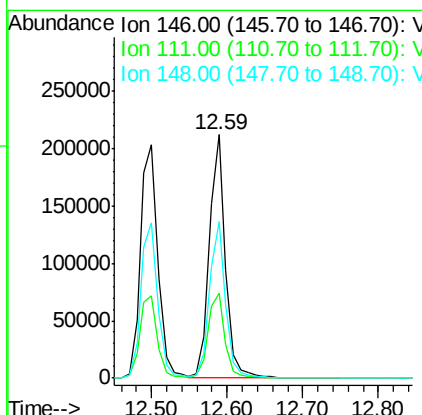
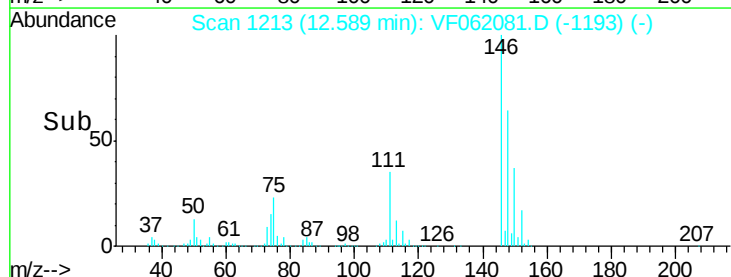
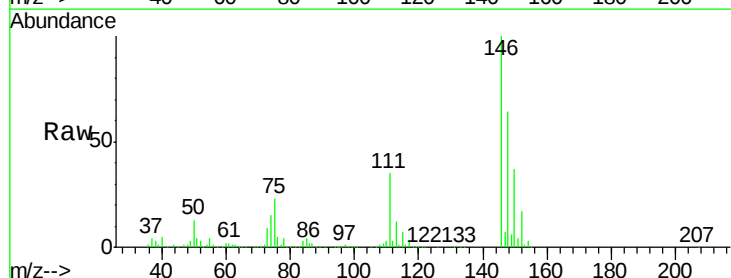
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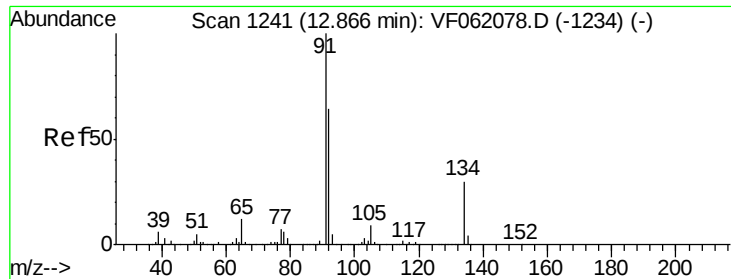
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#88
 1,4-Dichlorobenzene
 Concen: 50.072 ug/l
 RT: 12.59 min Scan# 1213
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.0	19.4	58.1
148	64.3	32.4	97.0





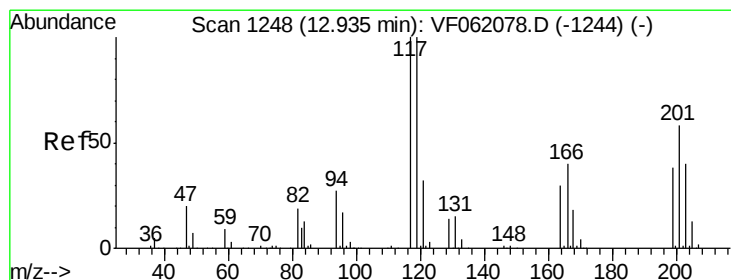
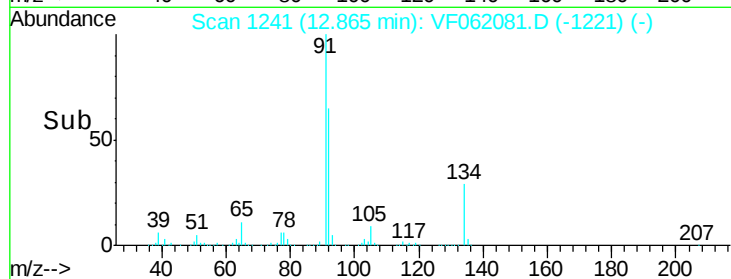
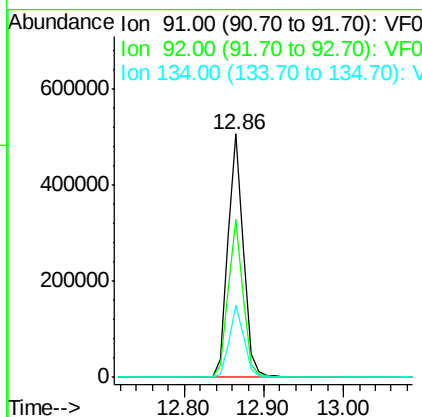
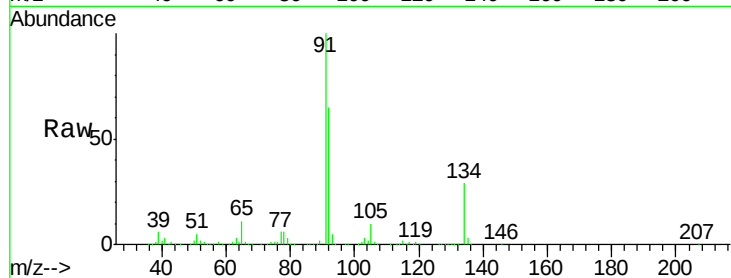
#89
n-Butylbenzene
Concen: 52.349 ug/l
RT: 12.86 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Instrument :
MSVOA_F
ClientSampleId :
ICVVF032219

Tot Ion	Ratio	Resp	Lower	Upper
91	100	693036		
92	64.6	31.7	95.1	
134	29.4	15.1	45.3	

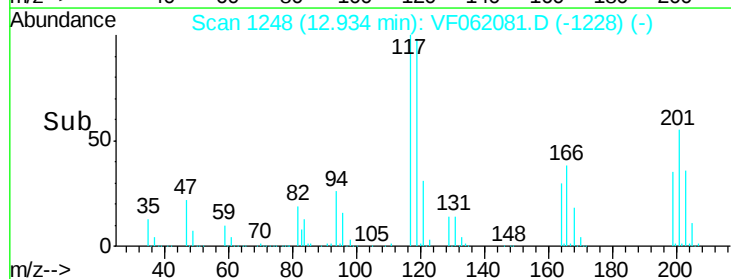
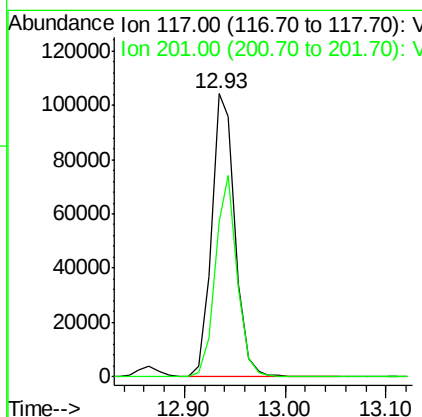
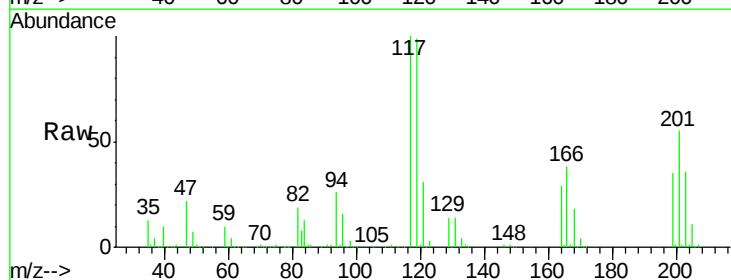
Manual Integrations
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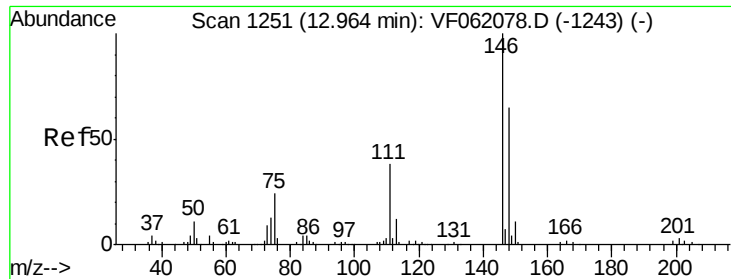
MMDadoda
3/27/2019 11:57:14 AM



#90
Hexachloroethane
Concen: 51.224 ug/l
RT: 12.93 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VF062081.D
Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	169249		
201	55.1	32.5	97.5	





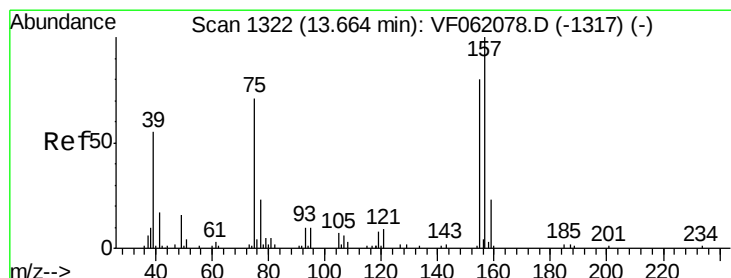
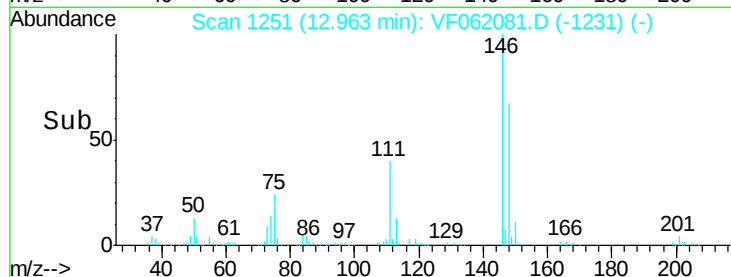
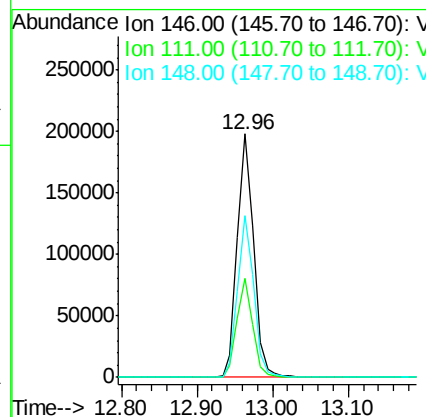
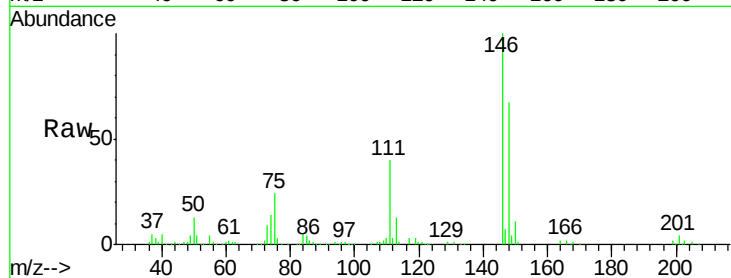
#91
 1,2-Dichlorobenzene
 Concen: 47.928 ug/l
 RT: 12.96 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF032219

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	18.9	56.5
148	66.5	32.9	98.6

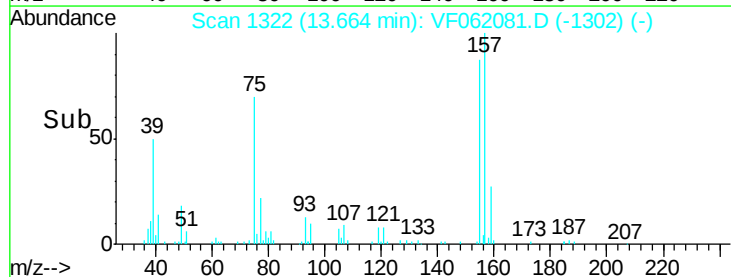
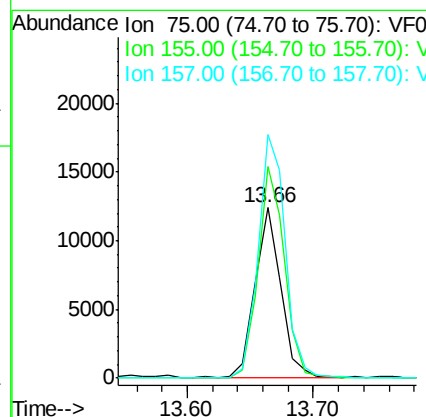
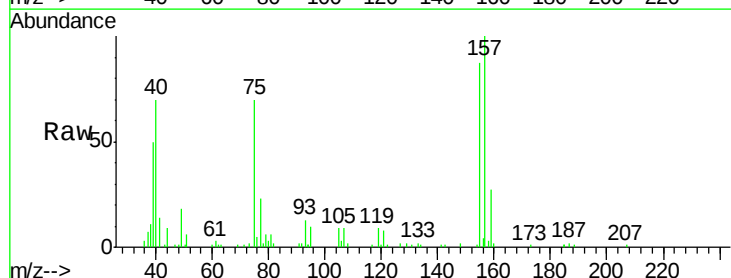
Manual Integrations
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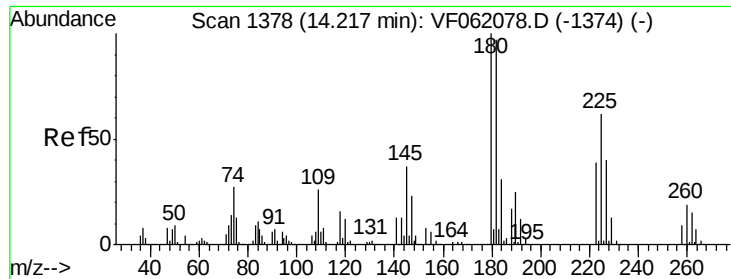
MMDadoda
 3/27/2019 11:57:14 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.693 ug/l
 RT: 13.66 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	123.9	65.0	195.1
157	142.9	84.7	254.0





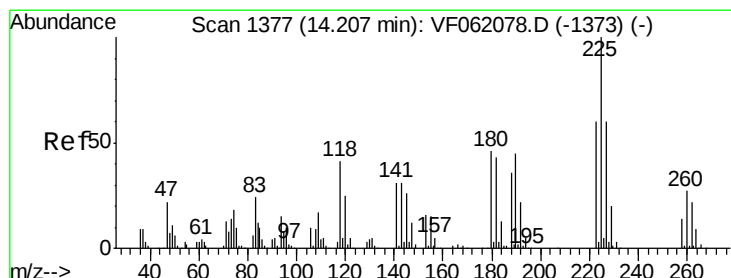
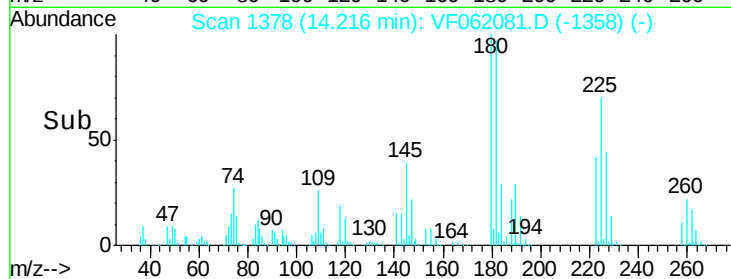
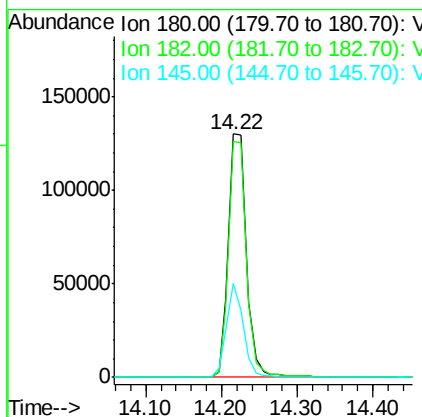
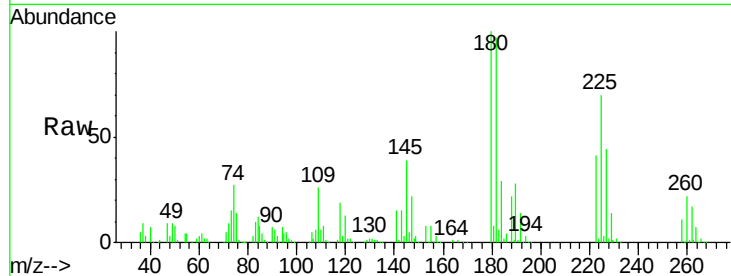
#93
 1,2,4-Trichlorobenzene
 Concen: 50.555 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. -0.00 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Instrument :
 MSVOA_F
 ClientSampleId :
 ICVVF032219

Tot Ion	Ratio	Resp	Lower	Upper
180	100	215931		
182	97.0	49.6	149.0	
145	38.5	17.5	52.5	

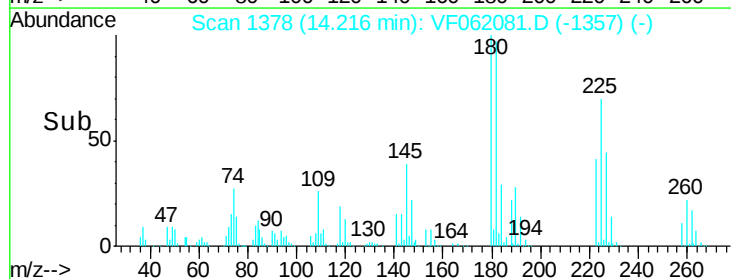
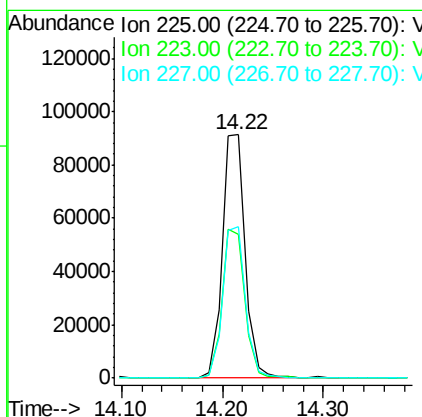
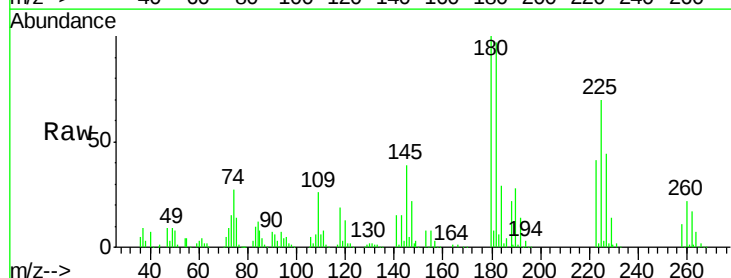
Manual Integrations
 APPROVED

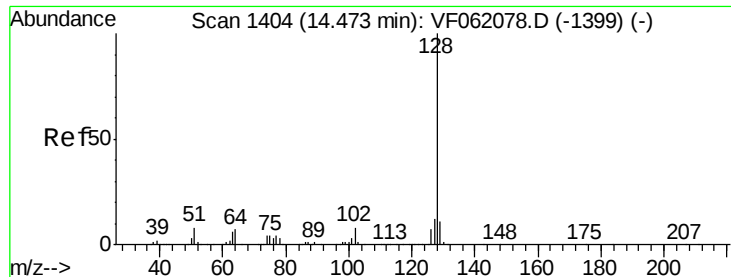
MMDadoda
 3/27/2019 11:57:14 AM



#94
 Hexachlorobutadiene
 Concen: 50.703 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.01 min
 Lab File: VF062081.D
 Acq: 22 Mar 2019 14:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	143994		
223	59.1	29.9	89.7	
227	62.4	32.4	97.2	





#95

Naphthalene

Concen: 52.770 ug/l

RT: 14.47 min Scan# 1404

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Instrument :

MSVOA_F

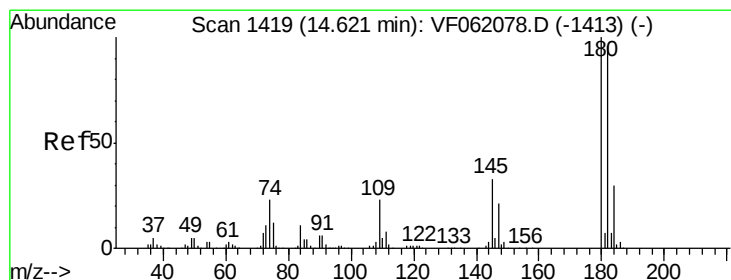
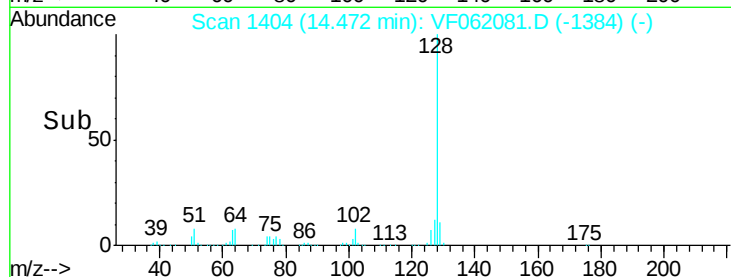
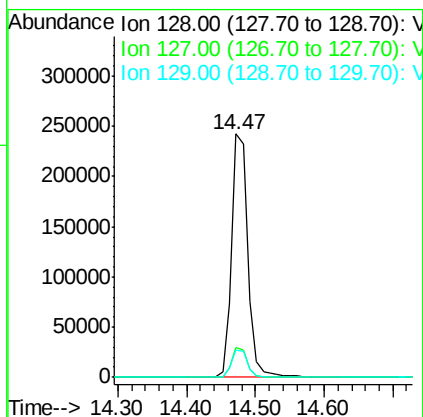
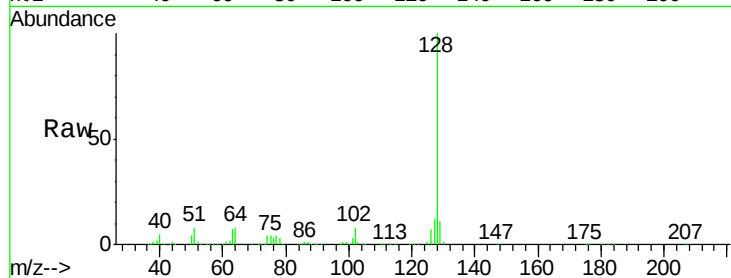
ClientSampleId :

ICVVF032219

Tot Ion:	128	Resp:	394982
Ion Ratio	Lower	Upper	
128	100		
127	12.3	9.3	13.9
129	11.3	9.1	13.7

Manual Integrations
APPROVED

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3/27/2019 11:57:14 AM



#96

1,2,3-Trichlorobenzene

Concen: 50.314 ug/l

RT: 14.62 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF062081.D

Acq: 22 Mar 2019 14:12

Tgt Ion:	180	Resp:	201159
Ion Ratio	Lower	Upper	
180	100		
182	94.8	48.9	146.8
145	32.2	16.7	50.1

