

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062079.D
 Acq On : 22 Mar 2019 12:53
 Operator : VA/AP
 Sample : VSTDIC075
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:12 AM

Quant Time: Mar 23 01:09:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 00:41:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.91	168	281710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.64	114	425070	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	377906	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	196489	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.89	65	155072	74.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	148.02%	
35) Dibromofluoromethane	4.15	113	217230	75.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	151.10%	
50) Toluene-d8	7.59	98	643010	74.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	149.82%	
62) 4-Bromofluorobenzene	11.44	95	249043	75.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	150.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	263827	73.104	ug/l	96
3) Chloromethane	1.10	50	267963	70.961	ug/l	97
4) Vinyl Chloride	1.15	62	257787	73.803	ug/l	99
5) Bromomethane	1.35	94	185834	74.013	ug/l	93
6) Chloroethane	1.41	64	132304	75.244	ug/l	95
7) Trichlorofluoromethane	1.50	101	308226	76.076	ug/l	99
8) Diethyl Ether	1.65	74	65952	68.442	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.85	101	198416	68.944	ug/l	99
10) Methyl Iodide	1.92	142	388763m	72.448	ug/l	
11) Tert butyl alcohol	2.60	59	41717	361.838	ug/l	94
12) 1,1-Dichloroethene	1.81	96	192308	70.819	ug/l	99
13) Acrolein	2.02	56	50284	361.871	ug/l	90
14) Allyl chloride	2.12	41	210536	72.619	ug/l	96
15) Acrylonitrile	2.97	53	150303	370.733	ug/l	94
16) Acetone	2.26	43	163527	370.804	ug/l	97
17) Carbon Disulfide	1.85	76	598136	73.691	ug/l	100
18) Methyl Acetate	2.37	43	68156	65.240	ug/l	97
19) Methyl tert-butyl Ether	2.45	73	318995	74.327	ug/l	97
20) Methylene Chloride	2.21	84	189860m	64.444	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	201772	79.952	ug/l	96
22) Diisopropyl ether	2.83	45	568314	74.767	ug/l	99
23) Vinyl Acetate	3.22	43	1222468	392.805	ug/l	97
24) 1,1-Dichloroethane	2.90	63	333728	73.214	ug/l	100
25) 2-Butanone	4.38	43	325523	353.576	ug/l	96
26) 2,2-Dichloropropane	3.64	77	133031	71.980	ug/l	96
27) cis-1,2-Dichloroethene	3.51	96	249676	72.115	ug/l	95
28) Bromochloromethane	3.75	49	131218	70.456	ug/l	99
29) Tetrahydrofuran	4.11	42	146483	365.944	ug/l	97
30) Chloroform	3.90	83	349547	72.561	ug/l	96
31) Cyclohexane	3.72	56	334406m	74.755	ug/l	
32) 1,1,1-Trichloroethane	4.14	97	246351	84.068	ug/l	96
36) 1,1-Dichloropropene	4.32	75	290183	71.671	ug/l	95
37) Ethyl Acetate	4.15	43	133468	75.430	ug/l	93
38) Carbon Tetrachloride	4.03	117	208704	75.630	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.49	83	373367	79.456	ug/l	98
40) Benzene	4.67	78	789854	72.771	ug/l	99
41) Methacrylonitrile	4.79	41	69493	74.227	ug/l #	89
42) 1,2-Dichloroethane	4.98	62	188198	73.323	ug/l	99
43) Isopropyl Acetate	6.99	43	161158	75.206	ug/l #	97
44) Trichloroethene	5.54	130	231053	69.627	ug/l	97
45) 1,2-Dichloropropane	6.27	63	191139	73.833	ug/l	99
46) Dibromomethane	6.12	93	118658	74.964	ug/l	94
47) Bromodichloromethane	6.42	83	262501	74.871	ug/l	97
48) Methyl methacrylate	6.75	41	92539	75.845	ug/l	96
49) 1,4-Dioxane	6.74	88	15247	1424.164	ug/l	92
51) 4-Methyl-2-Pentanone	8.29	43	518917	361.803	ug/l	99
52) Toluene	7.66	92	463234	73.685	ug/l	96
53) t-1,3-Dichloropropene	8.31	75	208197	75.644	ug/l	95
54) cis-1,3-Dichloropropene	7.33	75	300855	76.396	ug/l	96
55) 1,1,2-Trichloroethane	8.53	97	133825	74.942	ug/l	94
56) Ethyl methacrylate	8.65	69	160142	75.196	ug/l	95
57) 1,3-Dichloropropane	8.89	76	229385	77.397	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.33	63	130623	404.204	ug/l	98
59) 2-Hexanone	9.52	43	374121	355.907	ug/l	99
60) Dibromochloromethane	8.75	129	193142	77.803	ug/l	96
61) 1,2-Dibromoethane	9.02	107	148901	78.157	ug/l	93
64) Tetrachloroethene	8.19	164	199736	68.411	ug/l	94
65) Chlorobenzene	9.83	112	501283	70.894	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.97	131	198116	69.753	ug/l	96
67) Ethyl Benzene	9.94	91	878328	71.427	ug/l	96
68) m/p-Xylenes	10.16	106	645812	140.514	ug/l	95
69) o-Xylene	10.75	106	349101	72.522	ug/l	97
70) Styrene	10.81	104	524663	71.936	ug/l	99
71) Bromoform	10.80	173	105394	72.547	ug/l	97
73) Isopropylbenzene	11.15	105	964418	69.753	ug/l	99
74) N-amyl acetate	11.40	43	242980	73.754	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.72	83	167411	70.519	ug/l	98
76) 1,2,3-Trichloropropane	11.82	75	117390	70.263	ug/l	99
77) Bromobenzene	11.52	156	234189	69.329	ug/l	94
78) n-propylbenzene	11.62	91	1091422	67.981	ug/l	96
79) 2-Chlorotoluene	11.74	91	600774	67.324	ug/l	97
80) 1,3,5-Trimethylbenzene	11.85	105	783390	68.884	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.89	75	48834m	54.195	ug/l	
82) 4-Chlorotoluene	11.92	91	639509	69.895	ug/l	98
83) tert-Butylbenzene	12.16	119	790423	66.394	ug/l	98
84) 1,2,4-Trimethylbenzene	12.22	105	774187	69.441	ug/l	99
85) sec-Butylbenzene	12.33	105	1049952	68.174	ug/l	95
86) p-Isopropyltoluene	12.48	119	915860	68.639	ug/l	100
87) 1,3-Dichlorobenzene	12.50	146	432812	68.965	ug/l	97
88) 1,4-Dichlorobenzene	12.59	146	434535	70.957	ug/l	98
89) n-Butylbenzene	12.87	91	869800	68.326	ug/l	98
90) Hexachloroethane	12.93	117	223766	70.429	ug/l	98
91) 1,2-Dichlorobenzene	12.96	146	397997	67.538	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.66	75	28245	78.523	ug/l	98

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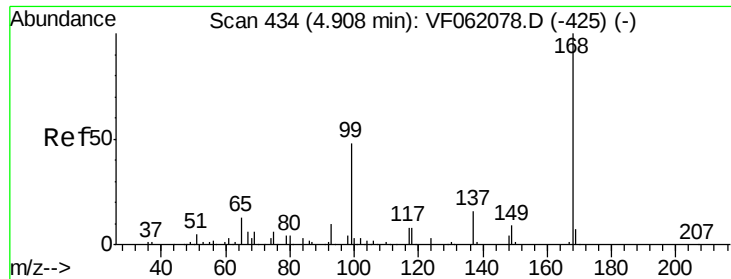
Manual Integrations
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	279416	68.033	ug/l	97
94) Hexachlorobutadiene	14.21	225	188557	69.048	ug/l	96
95) Naphthalene	14.47	128	547656	76.092	ug/l	98
96) 1,2,3-Trichlorobenzene	14.62	180	284235	73.934	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:168 Resp: 281710

Ion Ratio Lower Upper

168 100

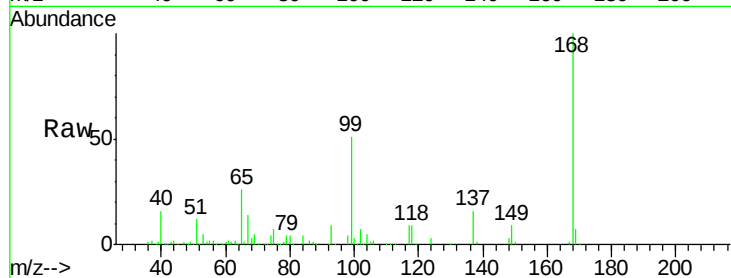
99 50.8 38.2 57.4

Manual Integrations

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3/27/2019 11:57:12 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.91

100000

80000

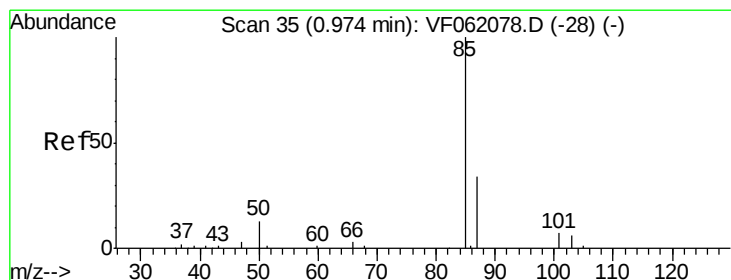
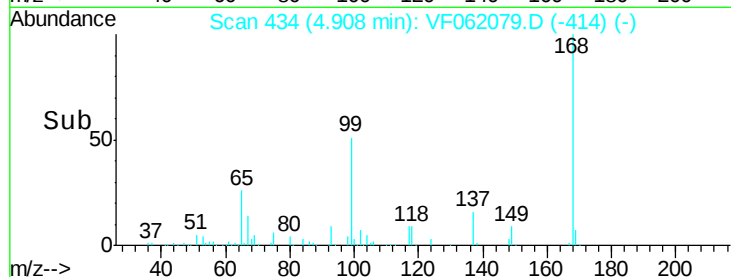
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 73.104 ug/l

RT: 0.97 min Scan# 35

Delta R.T. -0.00 min

Lab File: VF062079.D

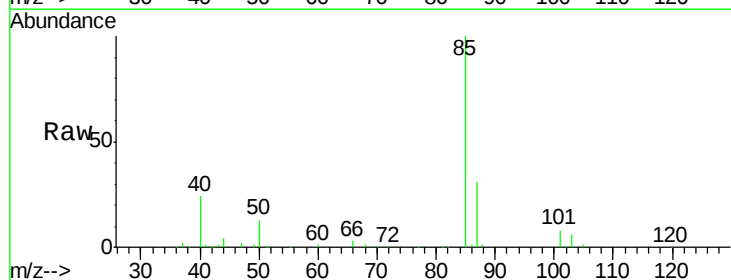
Acq: 22 Mar 2019 12:53

Tgt Ion: 85 Resp: 263827

Ion Ratio Lower Upper

85 100

87 31.5 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

80000

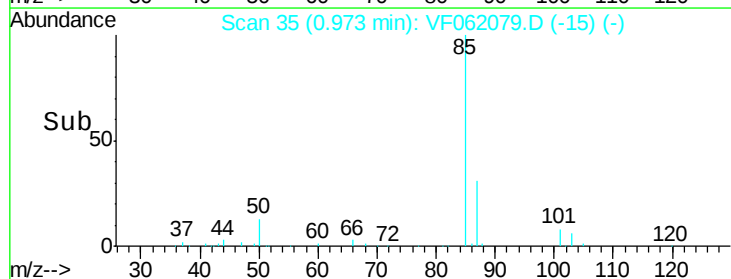
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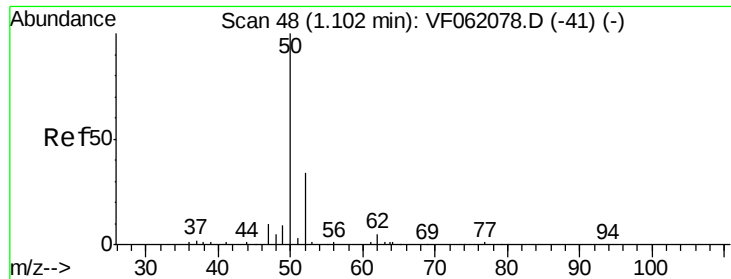
40000

20000

0

Time-->





#3

Chloromethane

Concen: 70.961 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 50 Resp: 267963

Ion Ratio Lower Upper

50 100

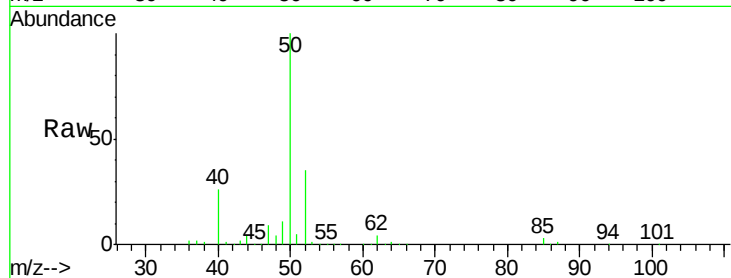
52 34.5 26.1 39.1

Manual Integrations

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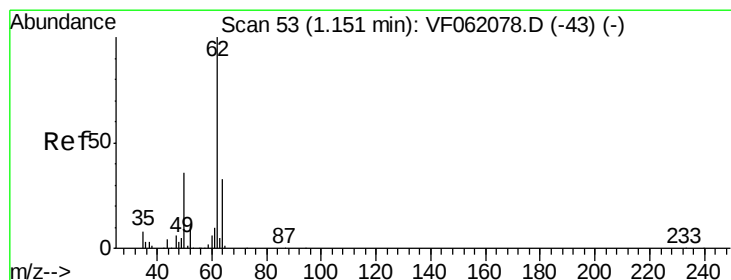
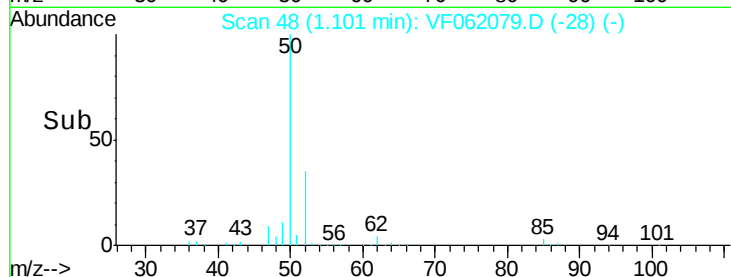
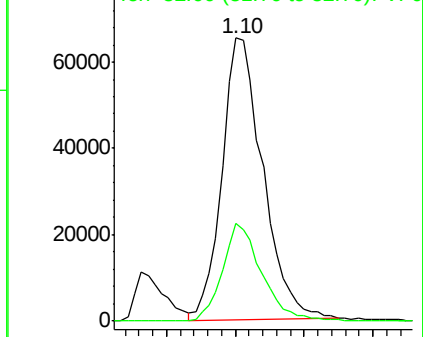
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 73.803 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF062079.D

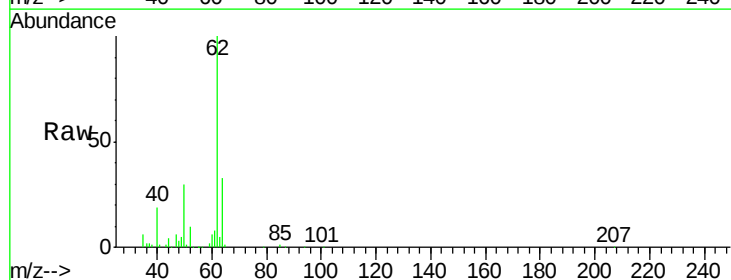
Acq: 22 Mar 2019 12:53

Tgt Ion: 62 Resp: 257787

Ion Ratio Lower Upper

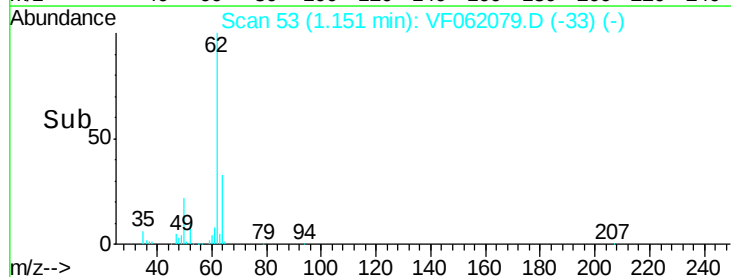
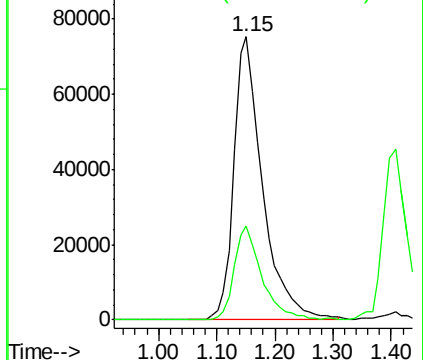
62 100

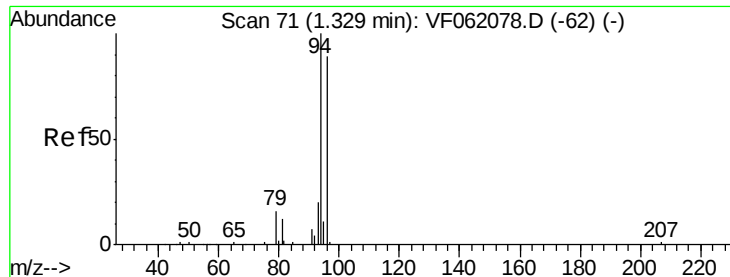
64 33.2 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 74.013 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.02 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 94 Resp: 185834

Ion Ratio Lower Upper

94 100

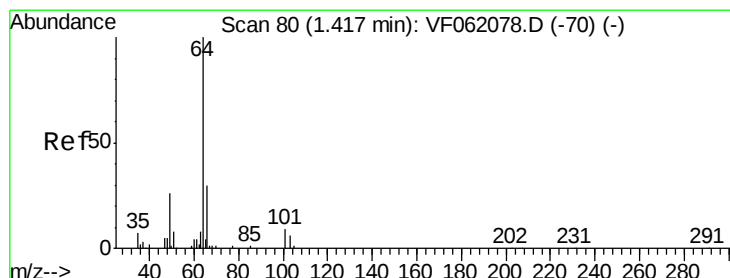
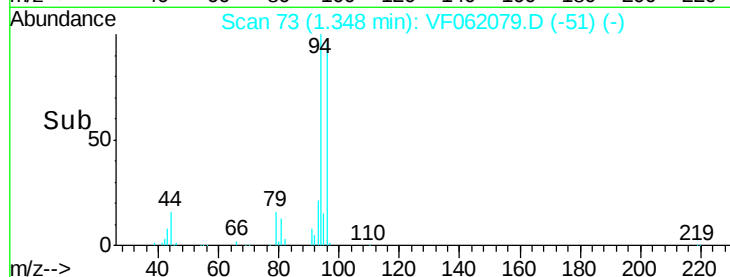
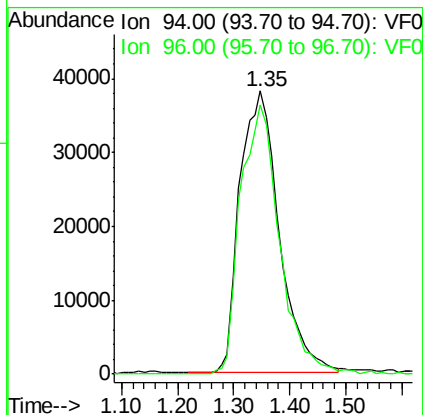
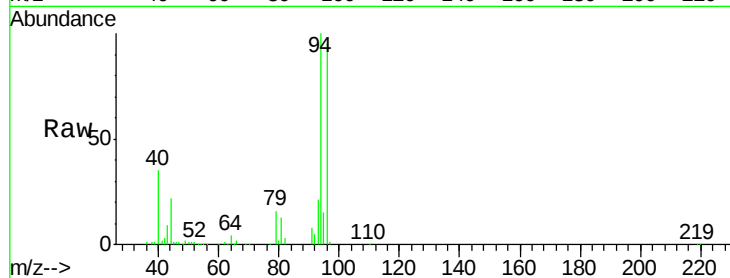
96 95.2 70.9 106.3

Manual Integrations

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3/27/2019 11:57:12 AM



#6

Chloroethane

Concen: 75.244 ug/l

RT: 1.41 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF062079.D

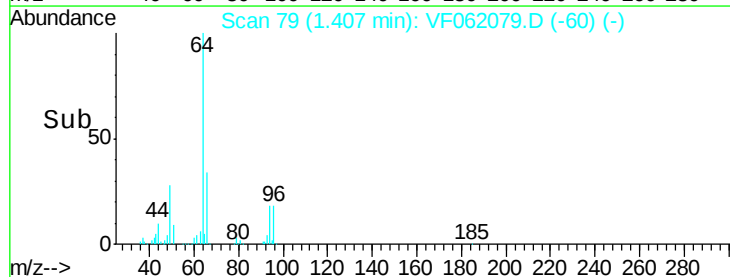
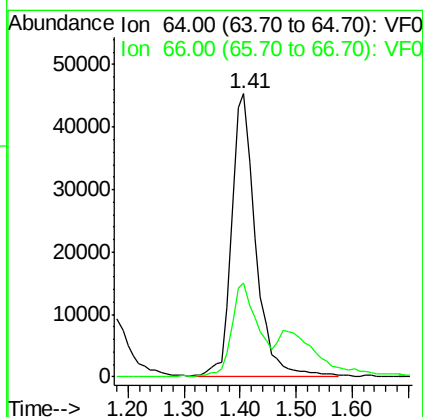
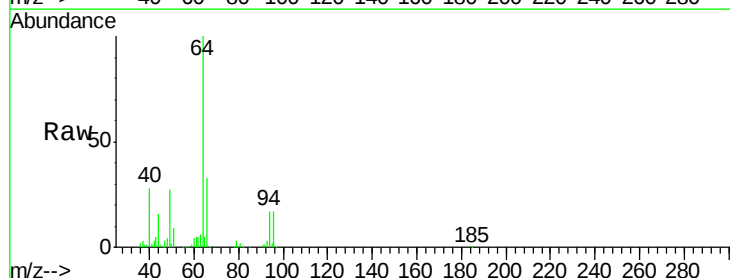
Acq: 22 Mar 2019 12:53

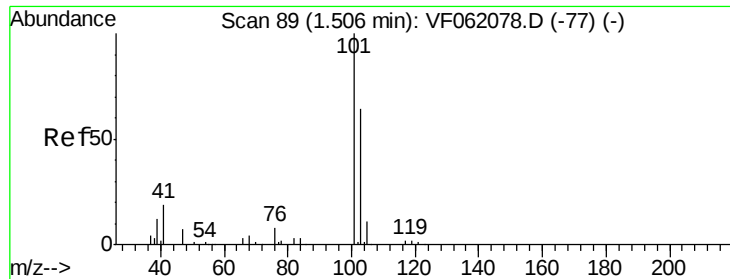
Tgt Ion: 64 Resp: 132304

Ion Ratio Lower Upper

64 100

66 33.2 24.5 36.7





#7

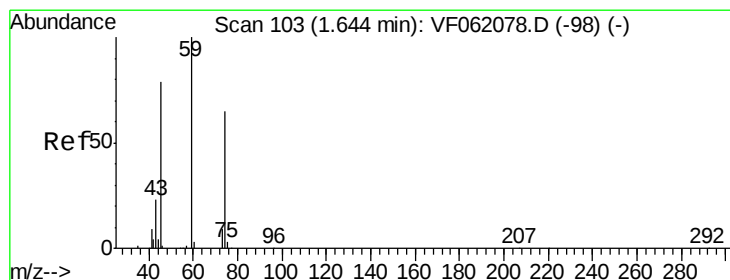
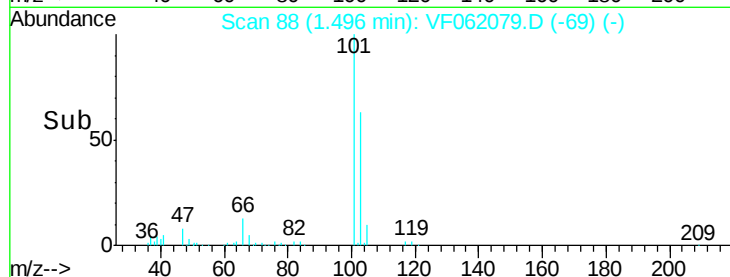
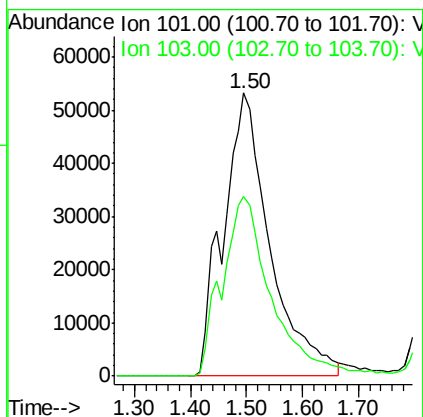
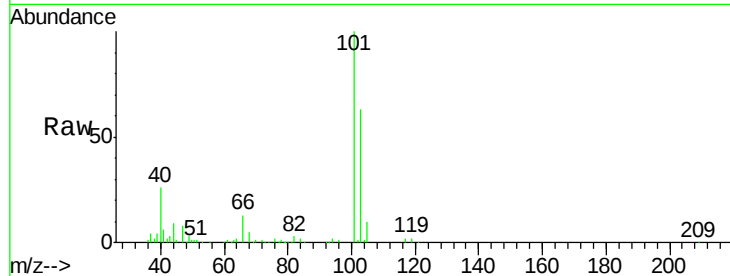
Trichlorofluoromethane
Concen: 76.076 ug/l
RT: 1.50 min Scan# 88
Delta R.T. -0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

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MSVOA_F
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VSTDIC075

Tot Ion	Ratio	Lower	Upper
101	100		
103	63.3	51.5	77.3

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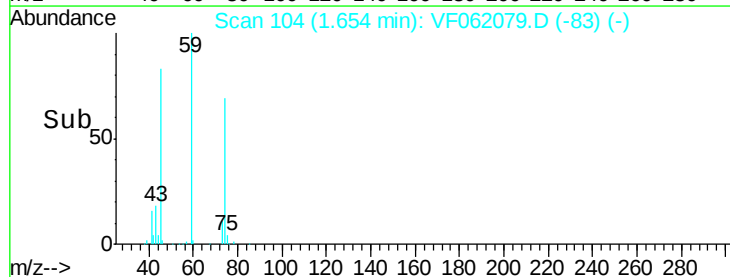
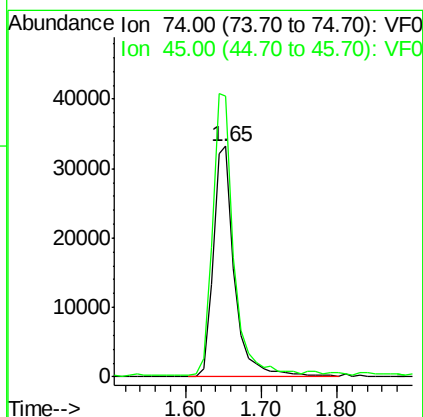
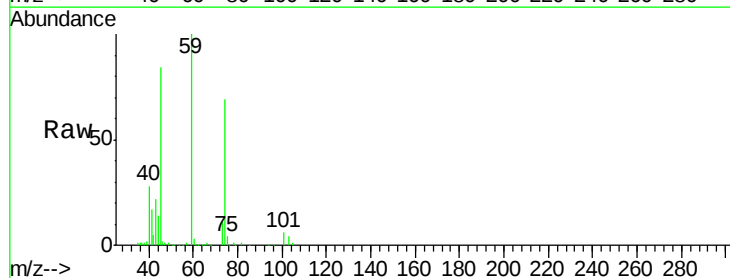
MMDadoda
3/27/2019 11:57:12 AM

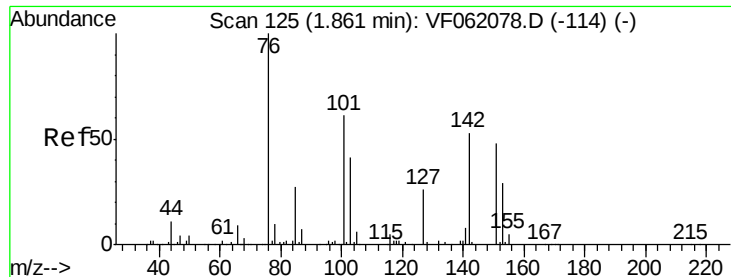


#8

Diethyl Ether
Concen: 68.442 ug/l
RT: 1.65 min Scan# 104
Delta R.T. 0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Lower	Upper
74	100		
45	121.9	61.4	184.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 68.944 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

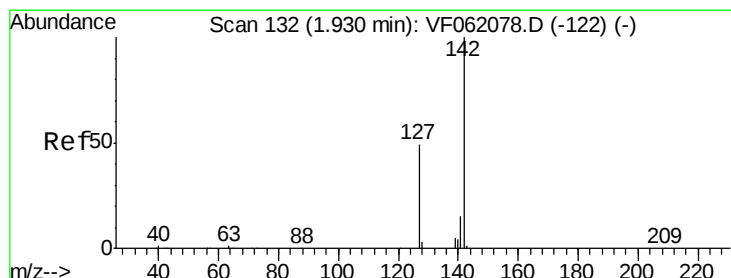
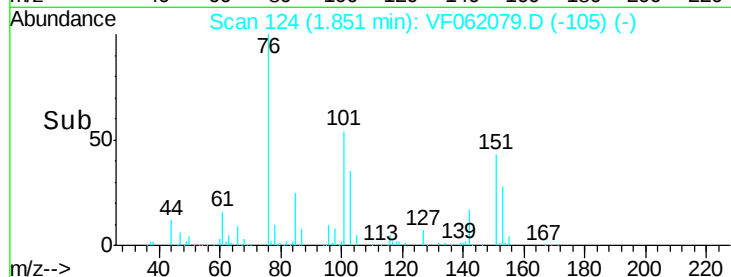
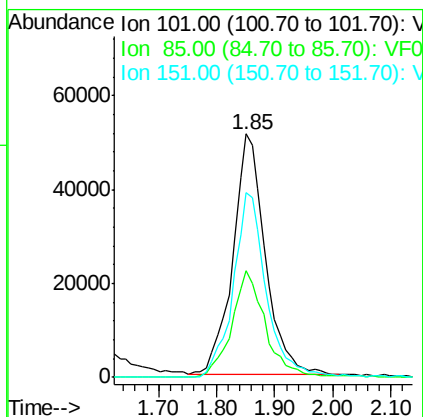
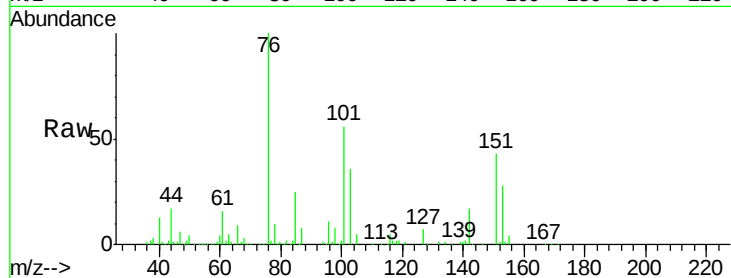
ClientSampleId :

VSTDIC075

Tot Ion:	101	Resp:	198416
Ion Ratio	Lower	Upper	
101	100		
85	43.7	34.6	52.0
151	75.7	61.7	92.5

Manual Integrations
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#10

Methyl Iodide

Concen: 72.448 ug/l m

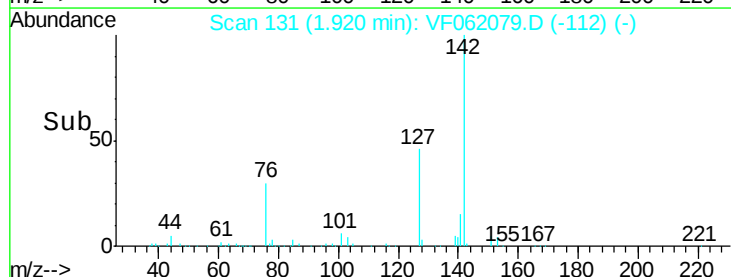
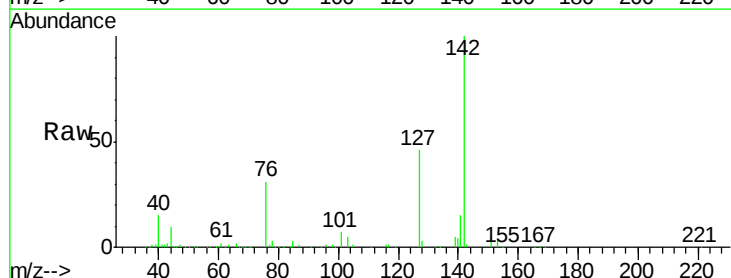
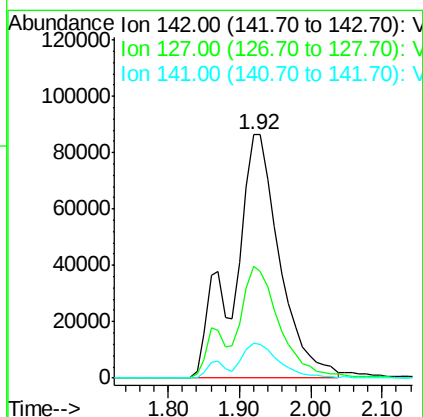
RT: 1.92 min Scan# 131

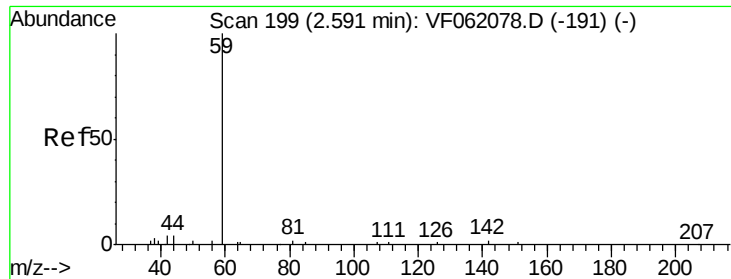
Delta R.T. -0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion:	142	Resp:	388763
Ion Ratio	Lower	Upper	
142	100		
127	45.9	39.1	58.7
141	14.5	12.2	18.4





#11

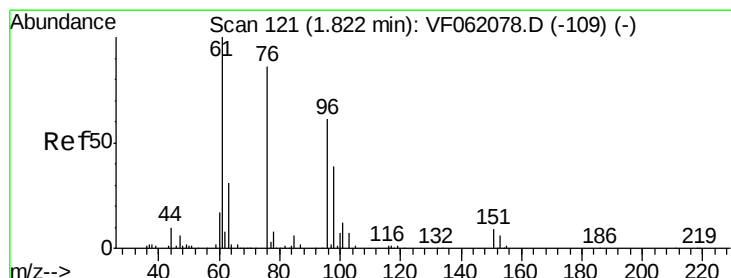
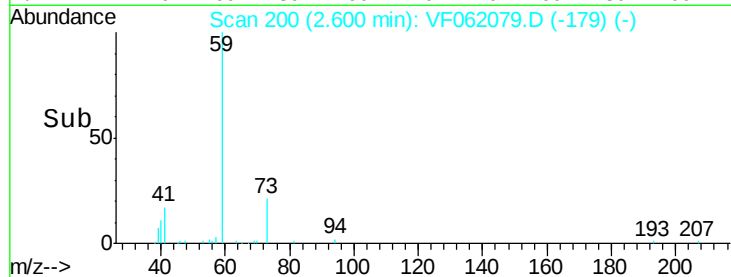
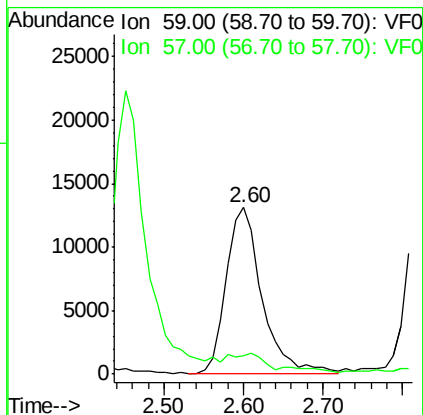
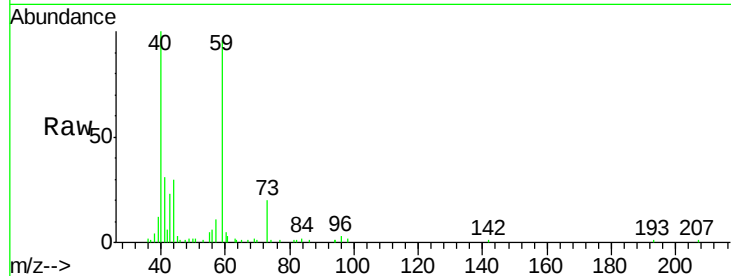
Tert butyl alcohol
Concen: 361.838 ug/l
RT: 2.60 min Scan# 200
Delta R.T. 0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion: 59 Resp: 41717
Ion Ratio Lower Upper
59 100
57 11.3 11.0 16.4

Manual Integrations
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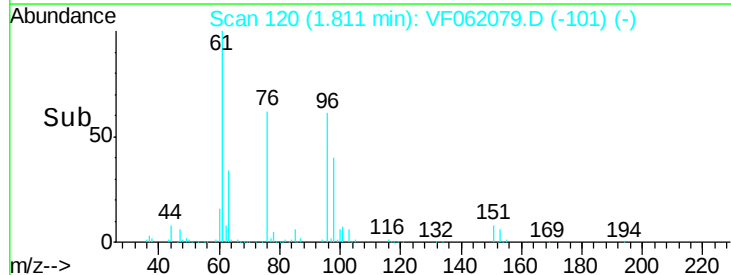
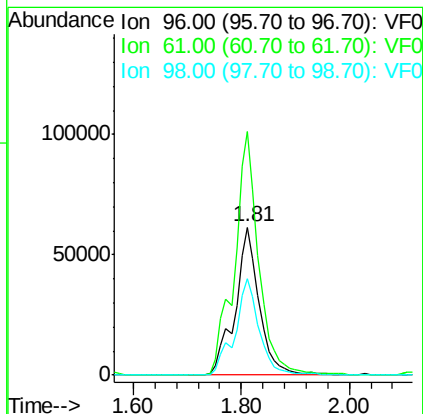
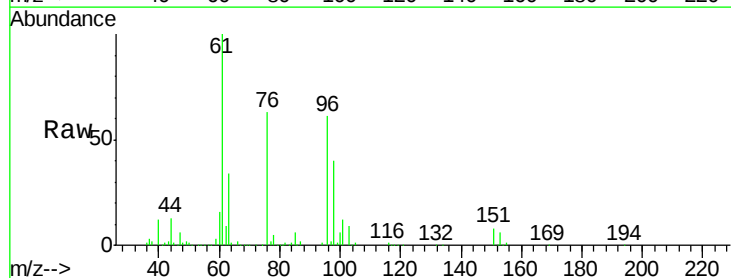
MMDadoda
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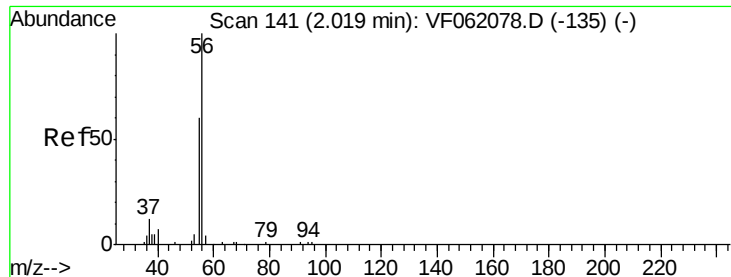


#12

1,1-Dichloroethene
Concen: 70.819 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion: 96 Resp: 192308
Ion Ratio Lower Upper
96 100
61 164.6 131.0 196.6
98 65.3 51.5 77.3





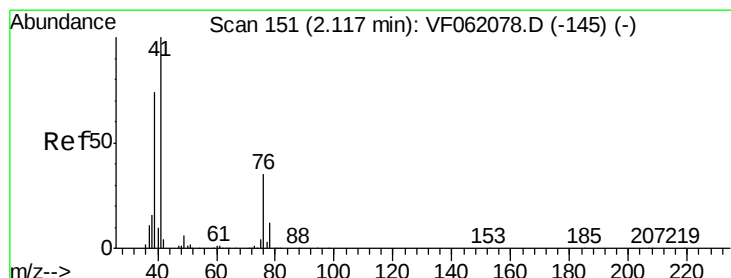
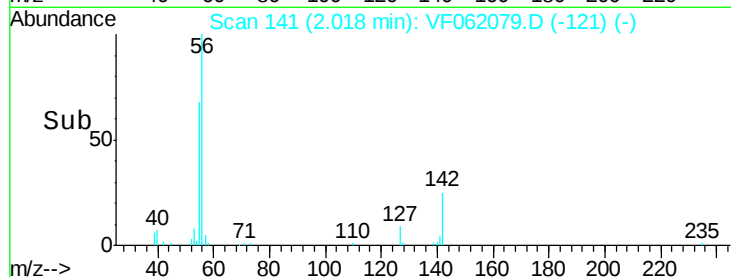
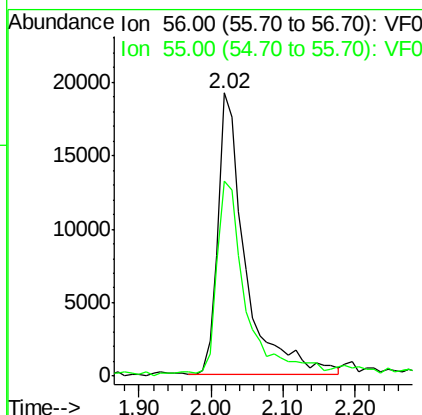
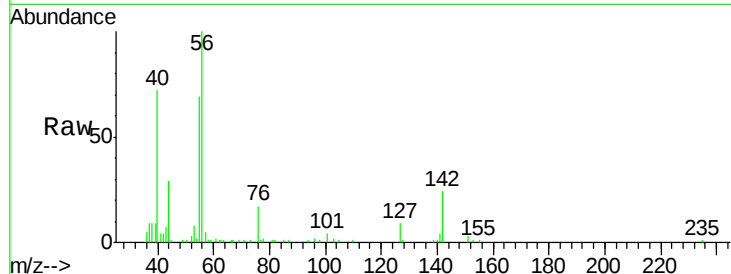
#13
Acrolein
Concen: 361.871 ug/l
RT: 2.02 min Scan# 141
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	56	Resp	50284
Ion Ratio	100	Lower	Upper
55	68.7	49.0	73.4

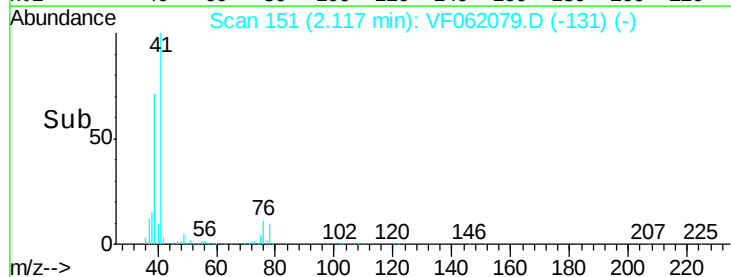
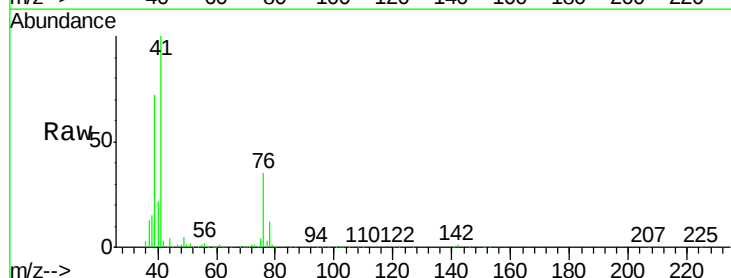
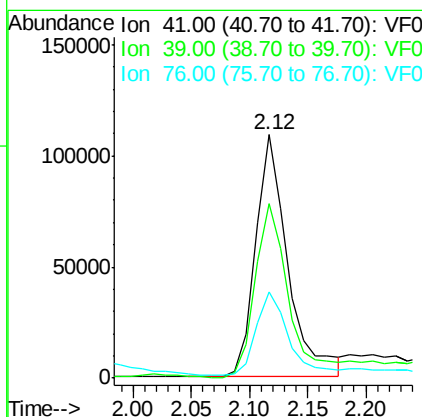
Manual Integrations
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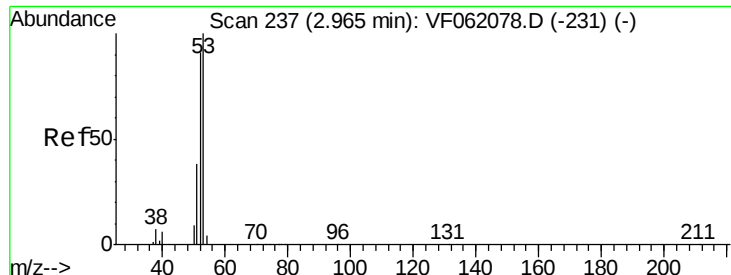
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#14
Allyl chloride
Concen: 72.619 ug/l
RT: 2.12 min Scan# 151
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	41	Resp	210536
Ion Ratio	100	Lower	Upper
39	71.5	59.8	89.8
76	35.2	30.0	45.0





#15

Acrylonitrile

Concen: 370.733 ug/l

RT: 2.97 min Scan# 238

Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

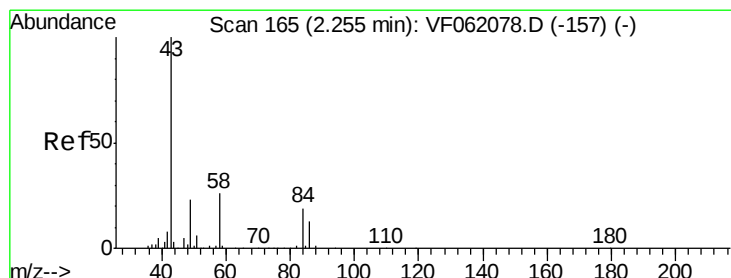
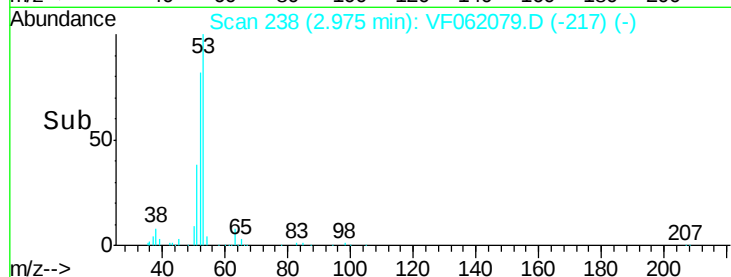
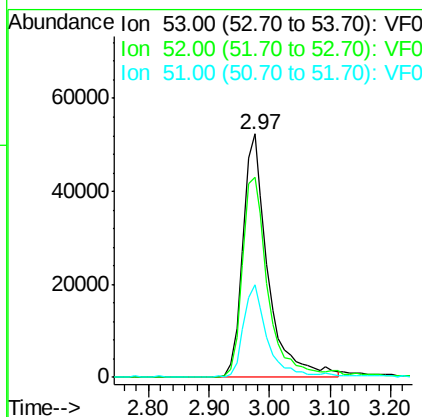
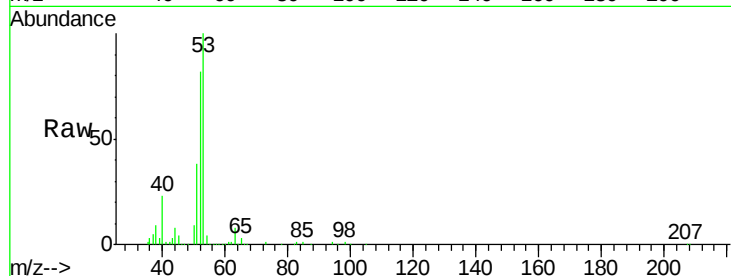
ClientSampleId :

VSTDIC075

Tot Ion:	53	Resp:	150303
Ion	Ratio	Lower	Upper
53	100		
52	82.0	72.3	108.5
51	37.8	30.4	45.6

Manual Integrations
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#16

Acetone

Concen: 370.804 ug/l

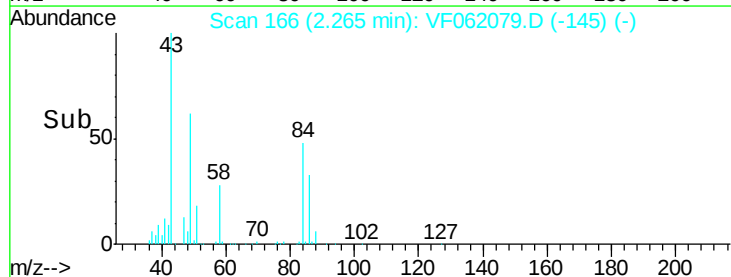
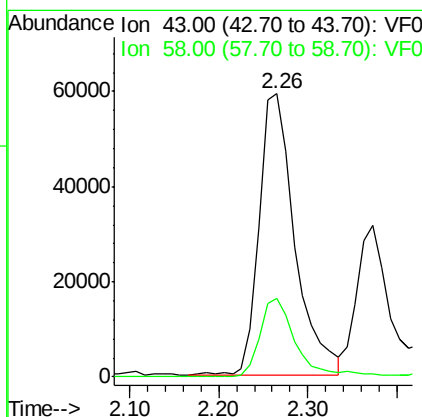
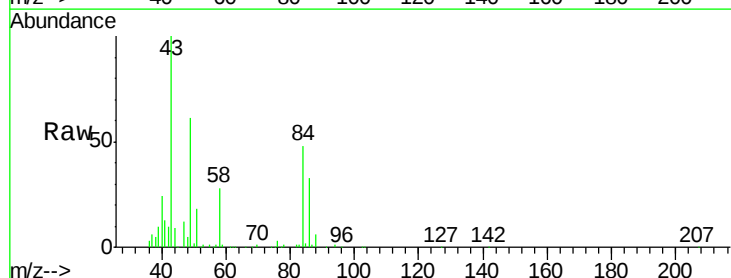
RT: 2.26 min Scan# 166

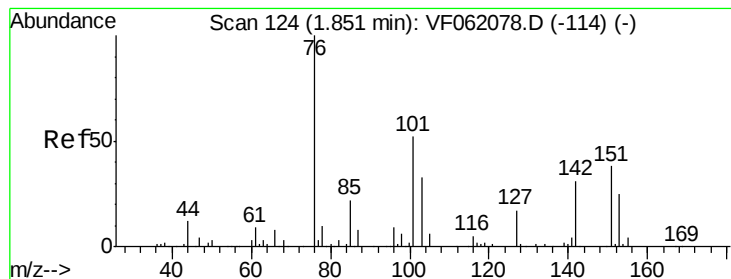
Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion:	43	Resp:	163527
Ion	Ratio	Lower	Upper
43	100		
58	27.8	20.8	31.2





#17

Carbon Disulfide

Concen: 73.691 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tot Ion: 76 Resp: 598136

Ion Ratio Lower Upper

76 100

78 10.1 7.9 11.9

Instrument :

MSVOA_F

ClientSampled :

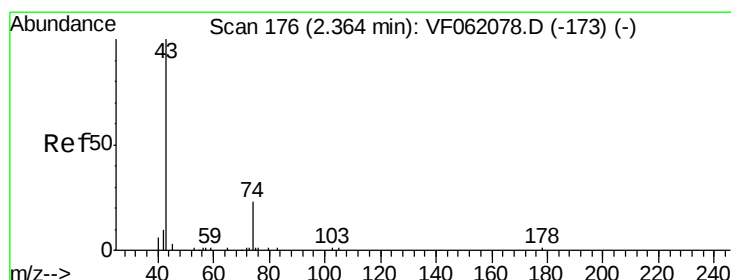
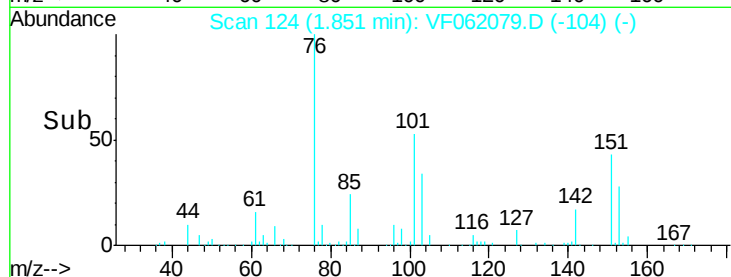
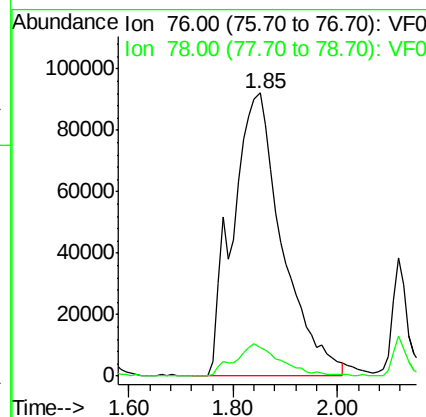
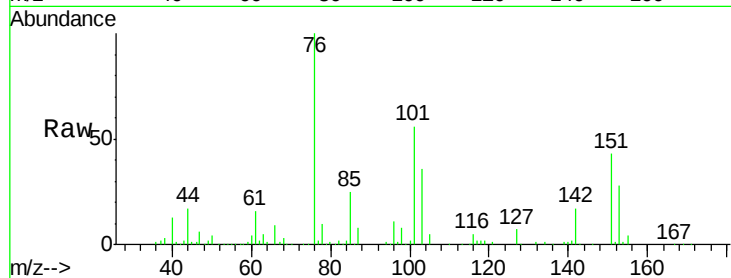
VSTDIC075

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#18

Methyl Acetate

Concen: 65.240 ug/l

RT: 2.37 min Scan# 177

Delta R.T. 0.01 min

Lab File: VF062079.D

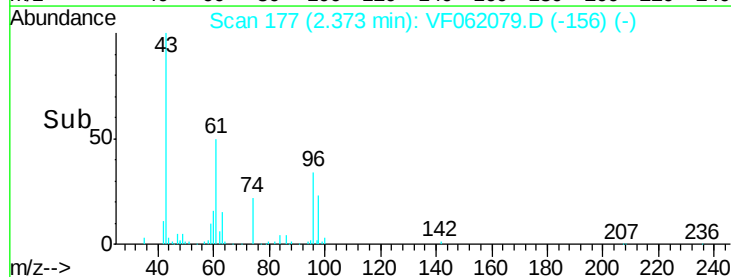
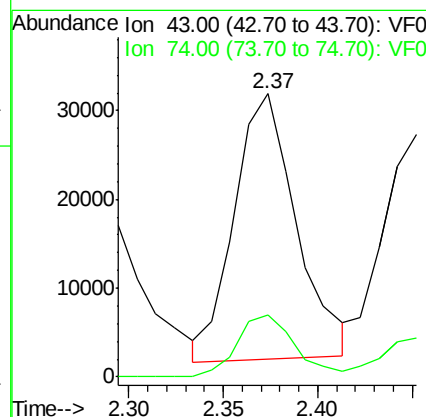
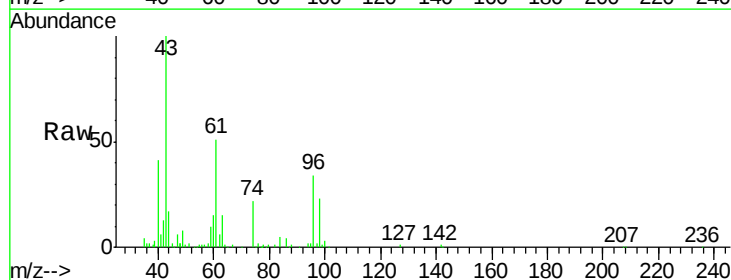
Acq: 22 Mar 2019 12:53

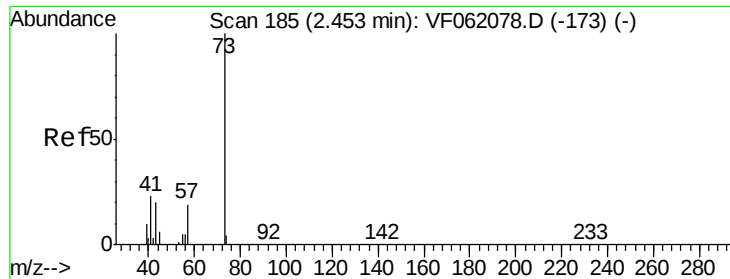
Tgt Ion: 43 Resp: 68156

Ion Ratio Lower Upper

43 100

74 21.8 16.3 24.5





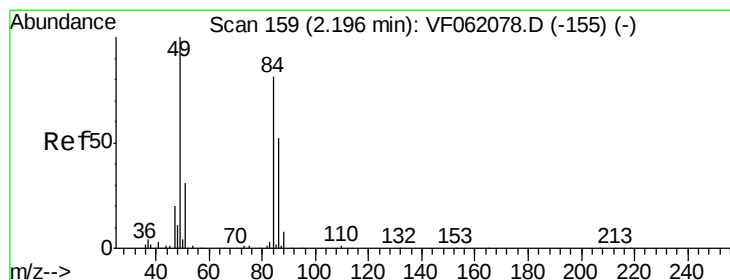
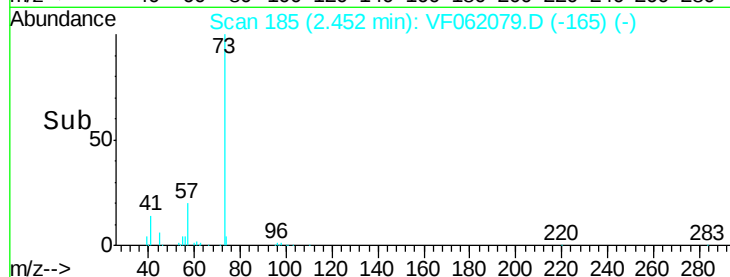
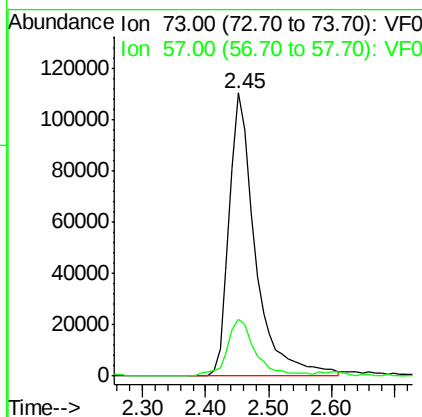
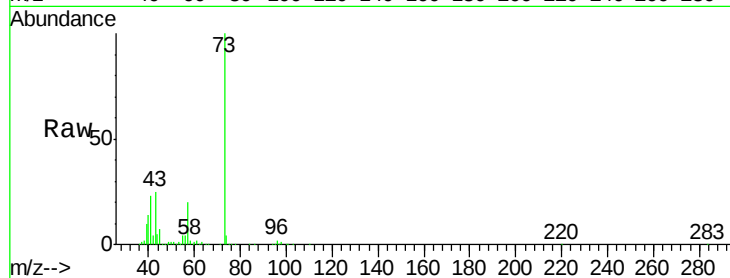
#19
Methyl tert-butyl Ether
Concen: 74.327 ug/l
RT: 2.45 min Scan# 185
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.2	15.1	22.7

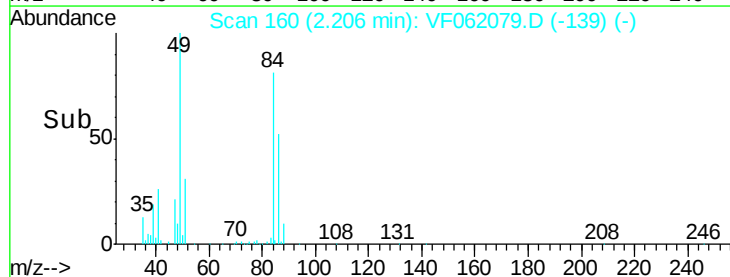
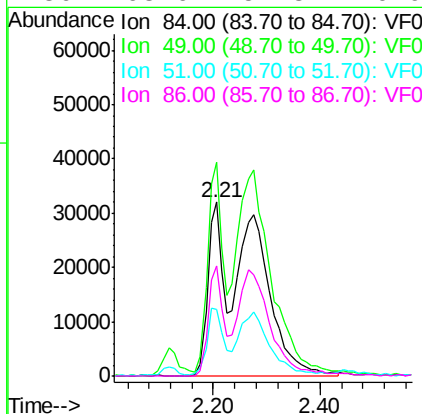
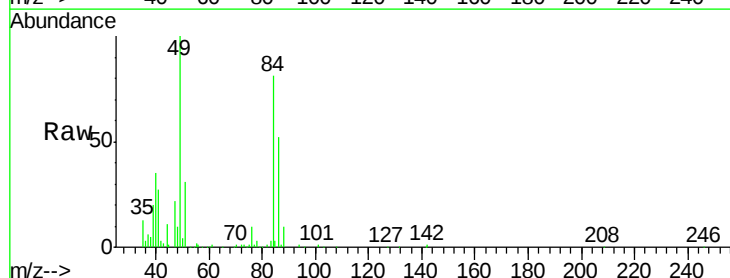
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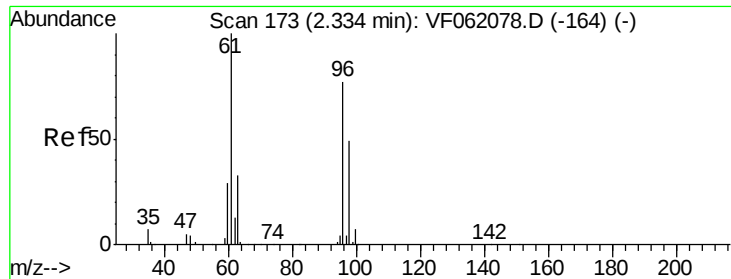
MMDadoda
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#20
Methylene Chloride
Concen: 64.444 ug/l m
RT: 2.21 min Scan# 160
Delta R.T. 0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Lower	Upper
84	100		
49	122.9	100.4	150.6
51	38.2	31.0	46.6
86	63.6	51.3	76.9





#21

trans-1,2-Dichloroethene

Concen: 79.952 ug/l

RT: 2.33 min Scan# 173

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

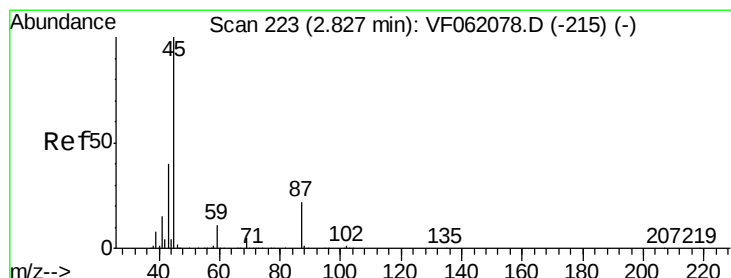
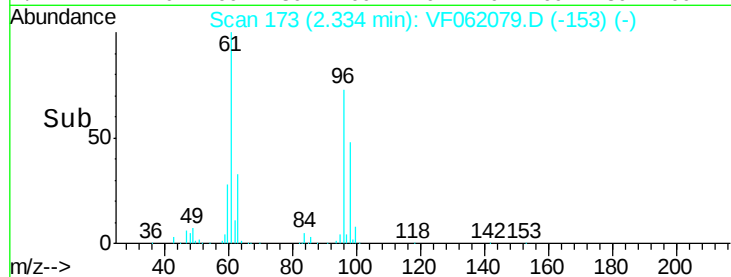
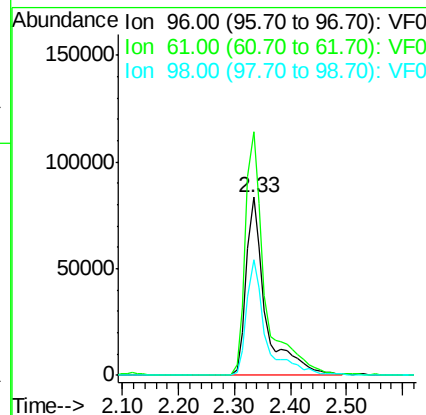
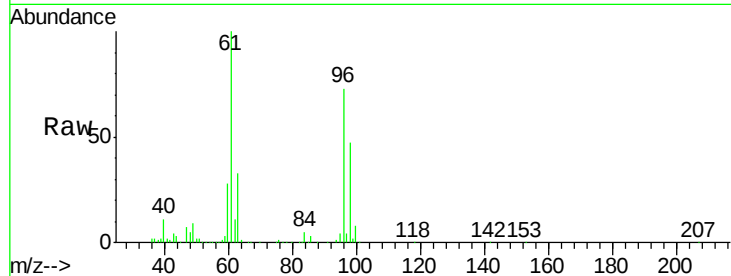
ClientSampleId :

VSTDIC075

Tot Ion:	96	Resp:	201772
Ion	Ratio	Lower	Upper
96	100		
61	136.7	104.5	156.7
98	64.9	51.2	76.8

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#22

Diisopropyl ether

Concen: 74.767 ug/l

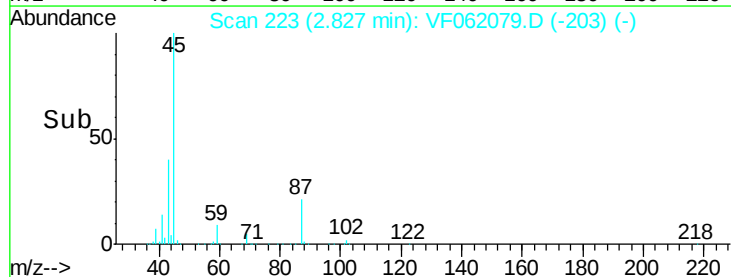
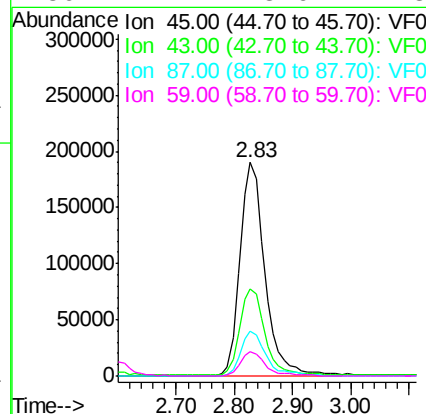
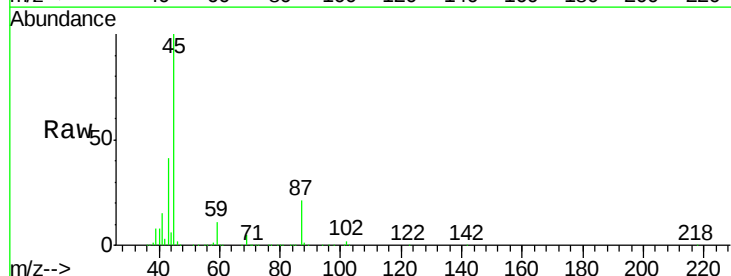
RT: 2.83 min Scan# 223

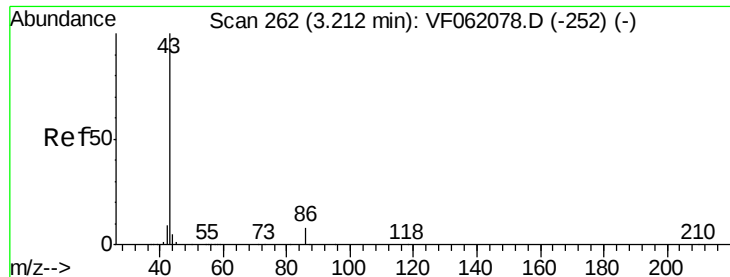
Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion:	45	Resp:	568314
Ion	Ratio	Lower	Upper
45	100		
43	41.0	32.5	48.7
87	21.0	17.4	26.2
59	11.1	8.6	12.8





#23

Vinyl Acetate

Concen: 392.805 ug/l

RT: 3.22 min Scan# 263

Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 1222468

Ion Ratio Lower Upper

43 100

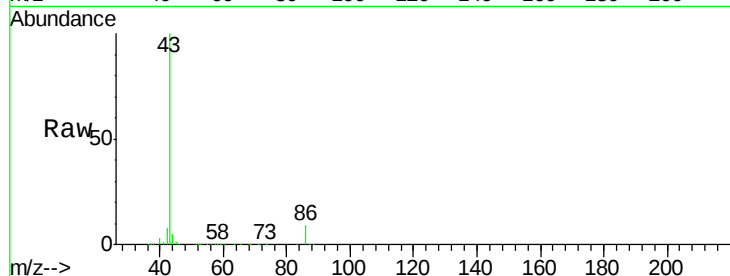
86 9.5 6.8 10.2

Manual Integrations

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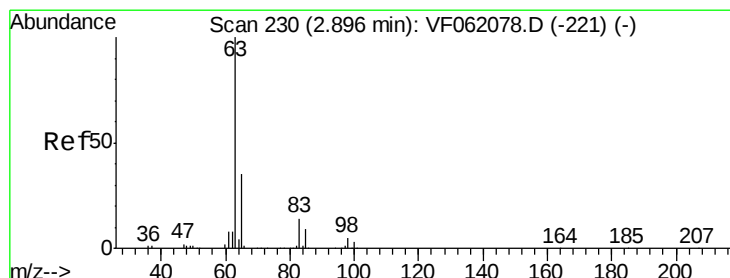
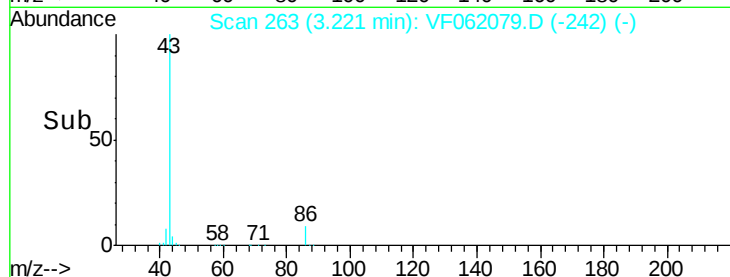
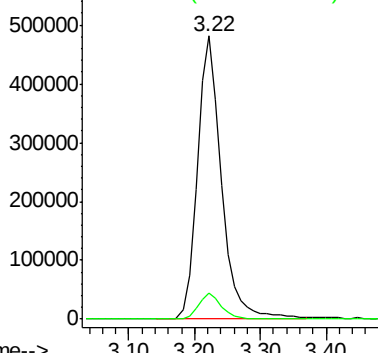
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 73.214 ug/l

RT: 2.90 min Scan# 230

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

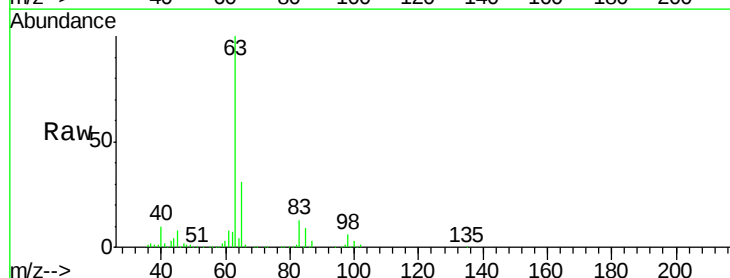
Tgt Ion: 63 Resp: 333728

Ion Ratio Lower Upper

63 100

98 5.6 2.7 8.1

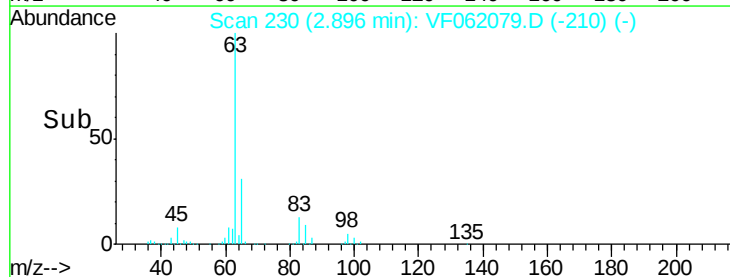
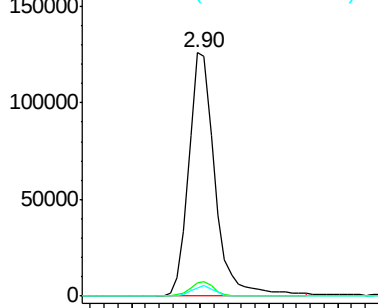
100 3.3 1.7 5.1

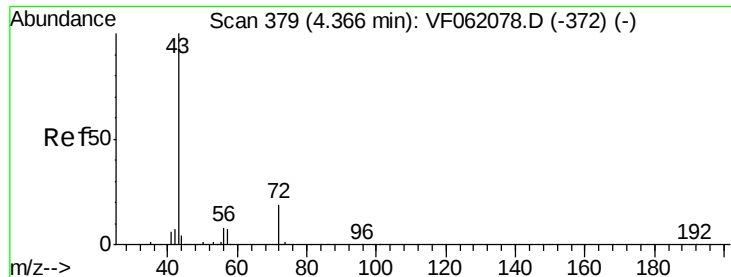


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 353.576 ug/l

RT: 4.38 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 325523

Ion Ratio Lower Upper

43 100

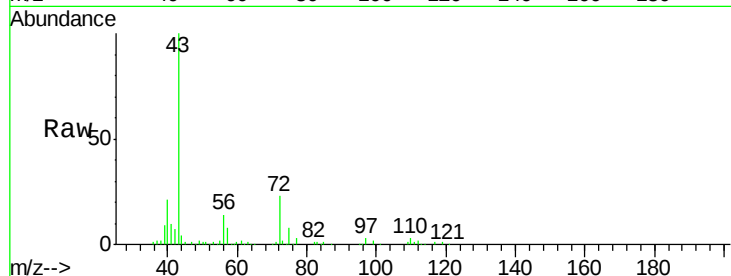
72 22.8 16.7 25.1

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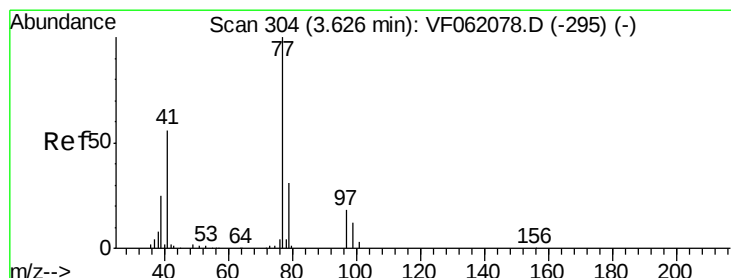
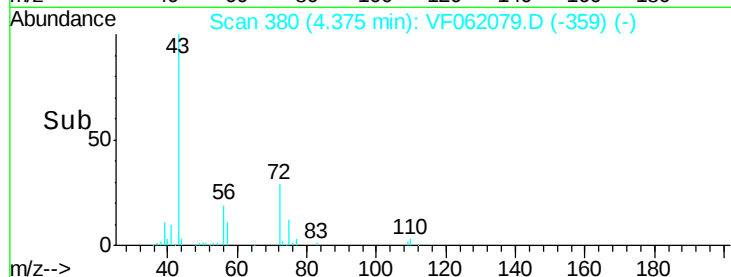
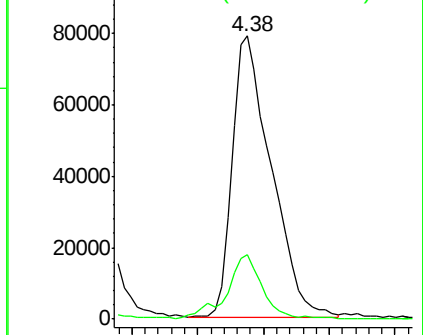
MMDadoda

3/27/2019 11:57:12 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 71.980 ug/l

RT: 3.64 min Scan# 305

Delta R.T. 0.01 min

Lab File: VF062079.D

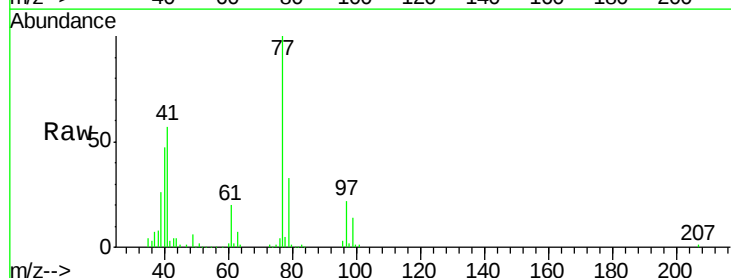
Acq: 22 Mar 2019 12:53

Tgt Ion: 77 Resp: 133031

Ion Ratio Lower Upper

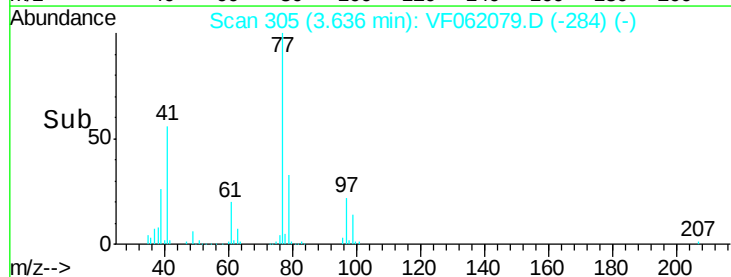
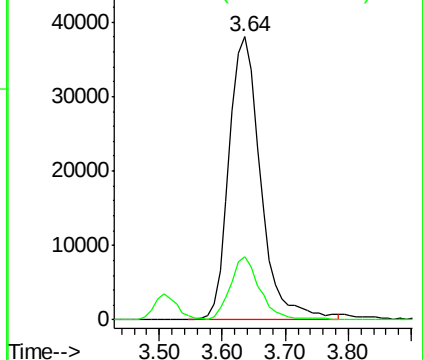
77 100

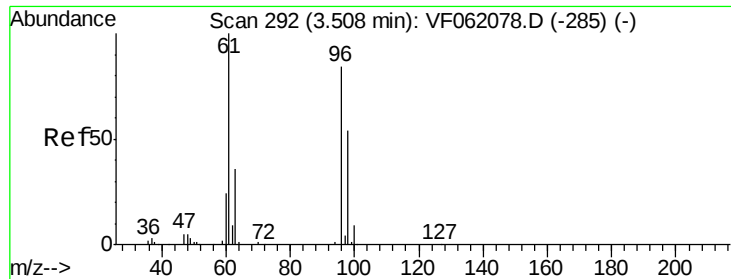
97 22.5 10.3 30.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

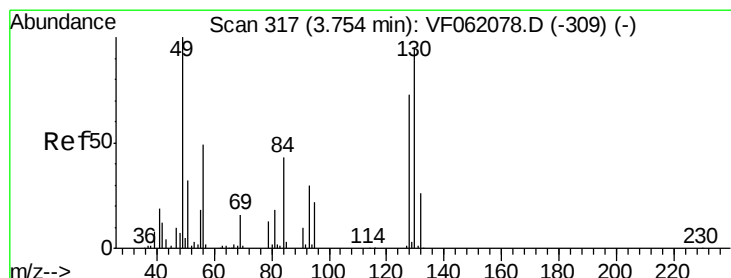
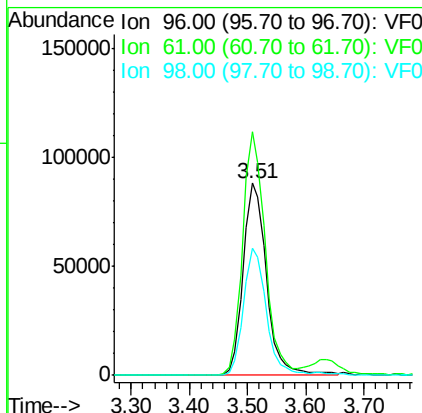
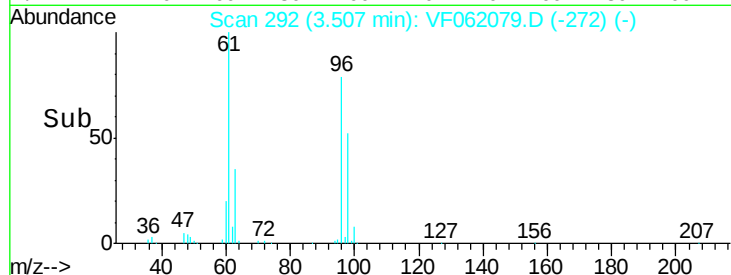
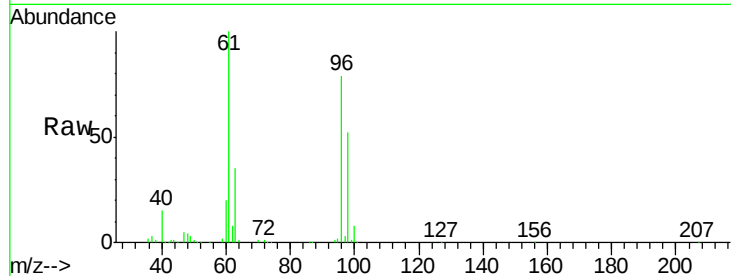
cis-1,2-Dichloroethene
Concen: 72.115 ug/l
RT: 3.51 min Scan# 292
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
96	100	249676		
61	126.9	0.0	239.0	
98	66.2	0.0	128.2	

Manual Integrations
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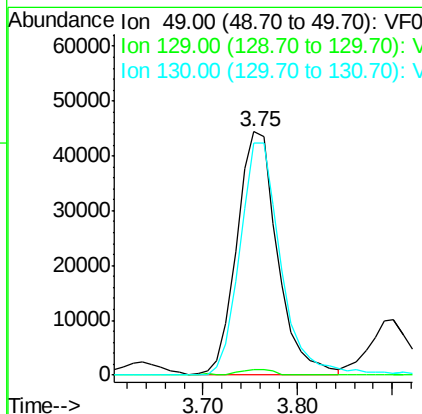
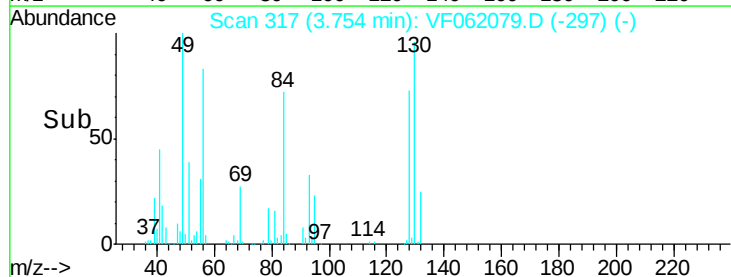
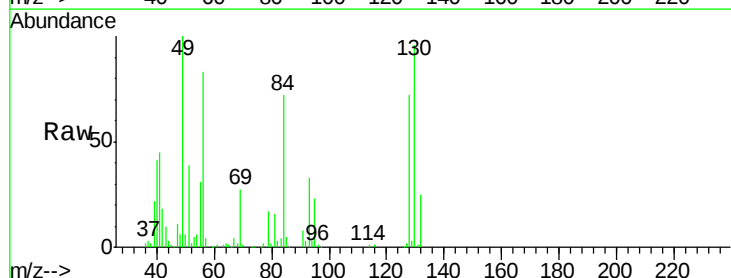
MMDadoda
3/27/2019 11:57:12 AM

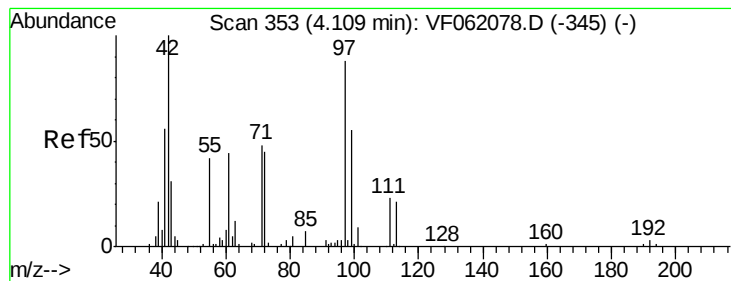


#28

Bromochloromethane
Concen: 70.456 ug/l
RT: 3.75 min Scan# 317
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	131218		
129	2.5	0.0	5.6	
130	95.6	75.5	113.3	





#29

Tetrahydrofuran

Concen: 365.944 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

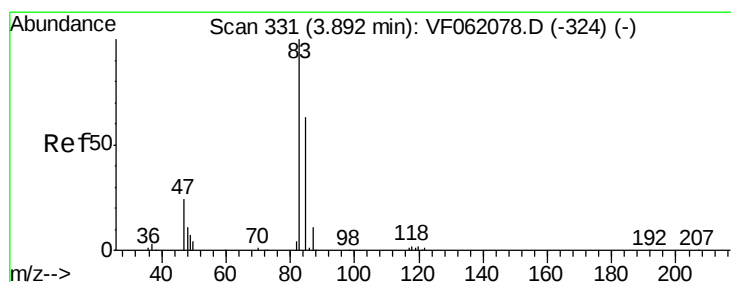
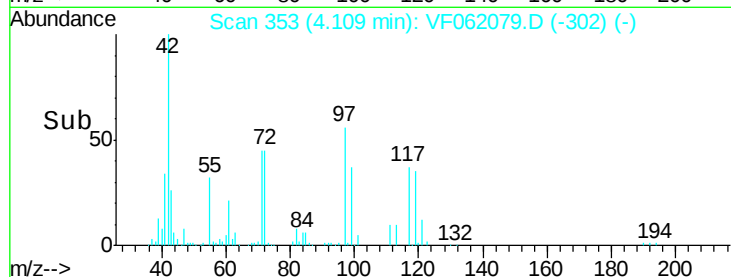
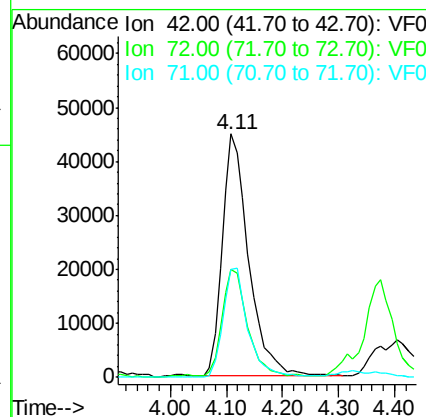
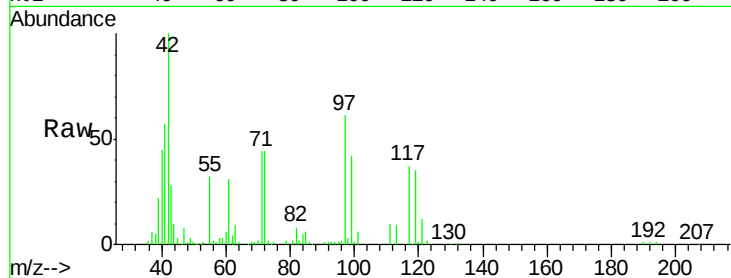
ClientSampleId :

VSTDIC075

Tot Ion:	42	Resp:	146483
Ion	Ratio	Lower	Upper
42	100		
72	44.5	33.3	49.9
71	42.8	35.0	52.4

Manual Integrations
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3/27/2019 11:57:12 AM



#30

Chloroform

Concen: 72.561 ug/l

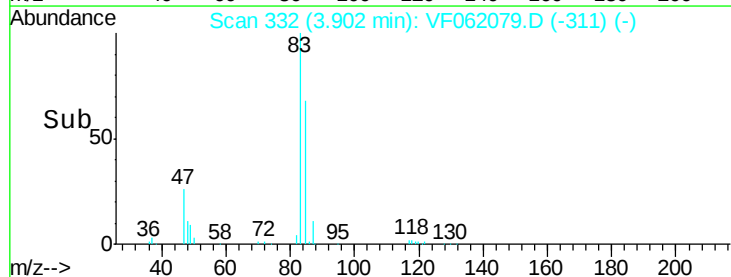
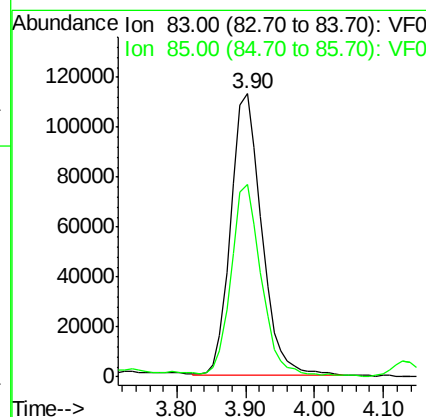
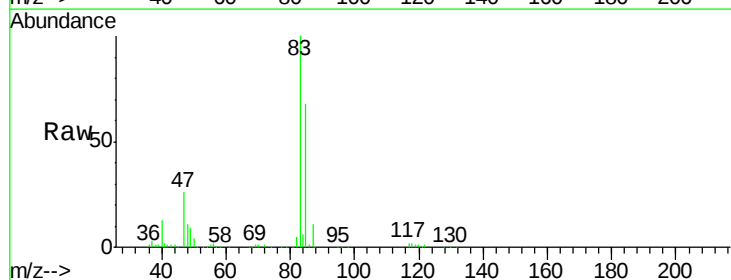
RT: 3.90 min Scan# 332

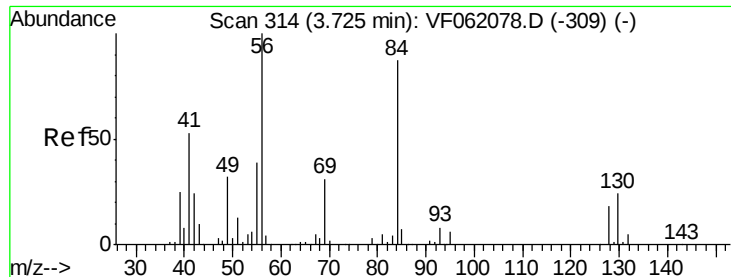
Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion:	83	Resp:	349547
Ion	Ratio	Lower	Upper
83	100		
85	67.8	51.5	77.3





#31

Cyclohexane

Concen: 74.755 ug/l m

RT: 3.72 min Scan# 314

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

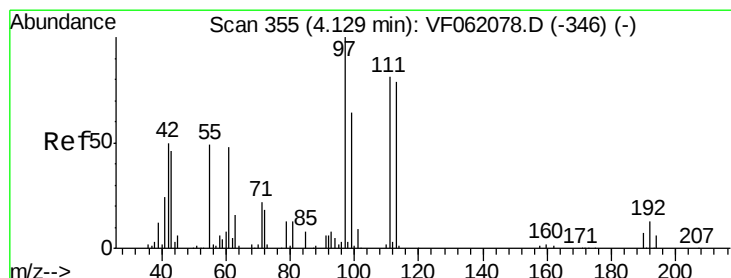
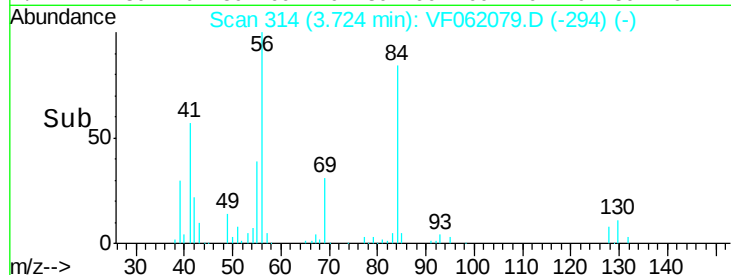
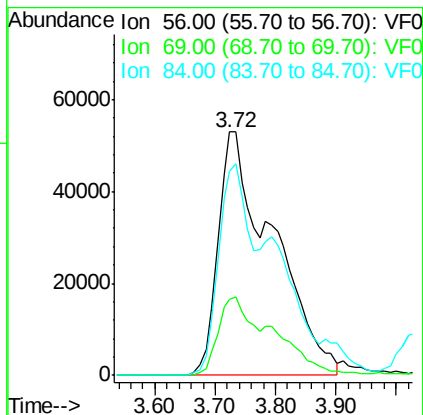
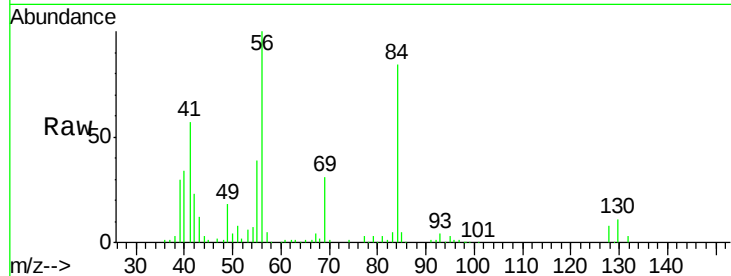
ClientSampleId :

VSTDIC075

Tot Ion:	56	Resp:	334406
Ion Ratio	Lower	Upper	
56	100		
69	31.3	25.9	38.9
84	83.6	71.1	106.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 84.068 ug/l

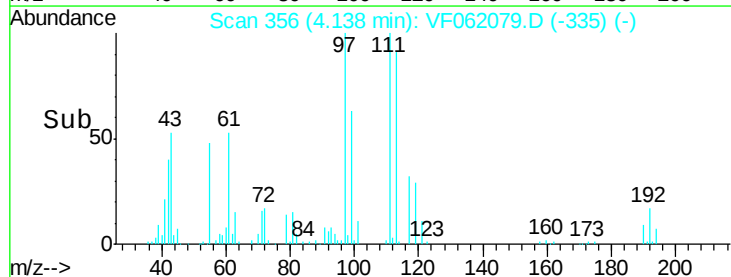
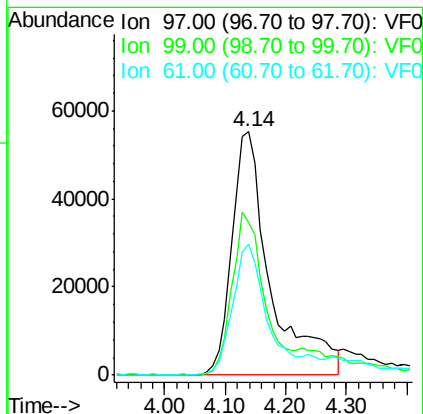
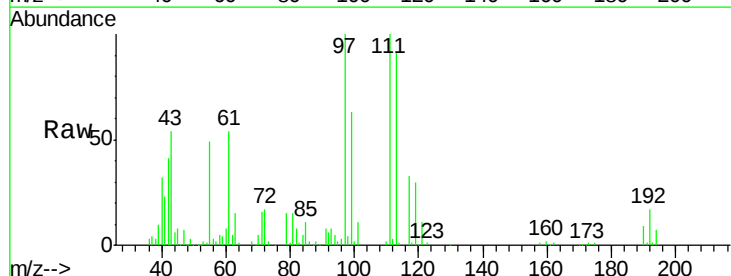
RT: 4.14 min Scan# 355

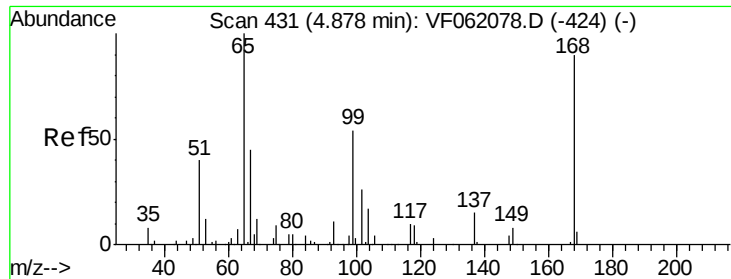
Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion:	97	Resp:	246351
Ion Ratio	Lower	Upper	
97	100		
99	62.9	51.3	76.9
61	53.6	39.0	58.6





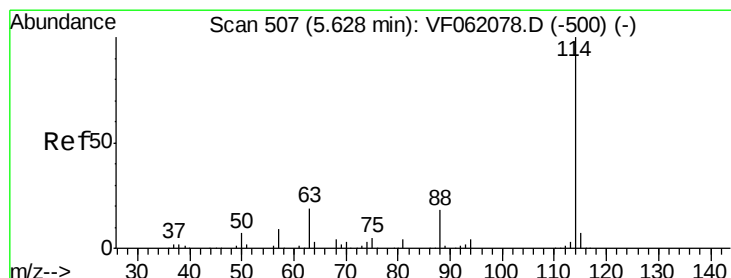
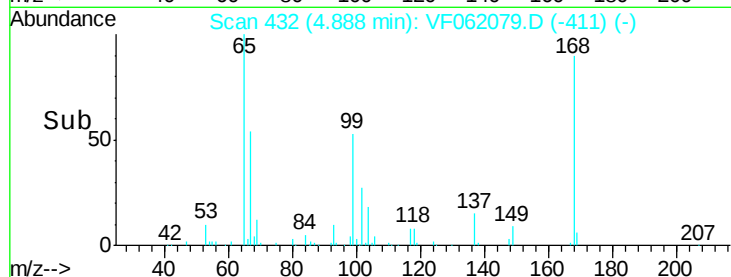
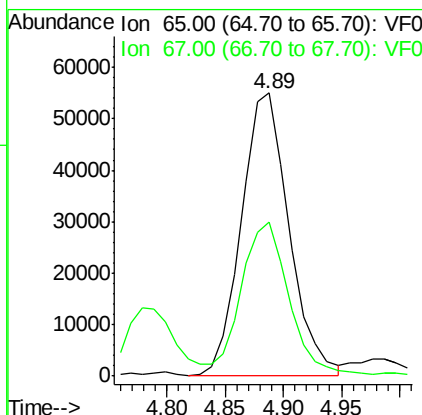
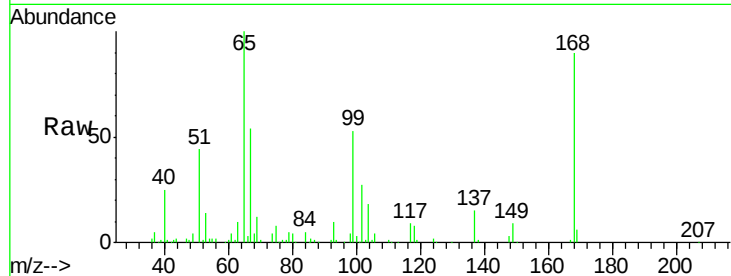
#33
 1,2-Dichloroethane-d4
 Concen: 74.007 ug/l
 RT: 4.89 min Scan# 432
 Delta R.T. 0.01 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion: 65 Resp: 155072
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 106.2

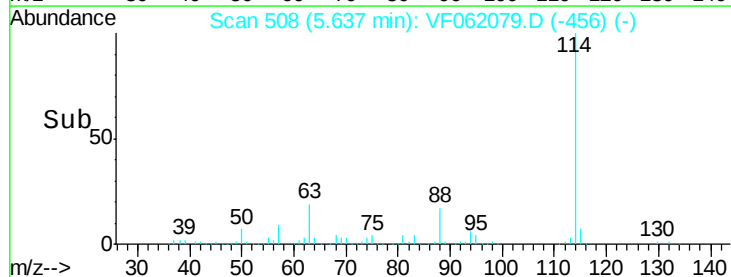
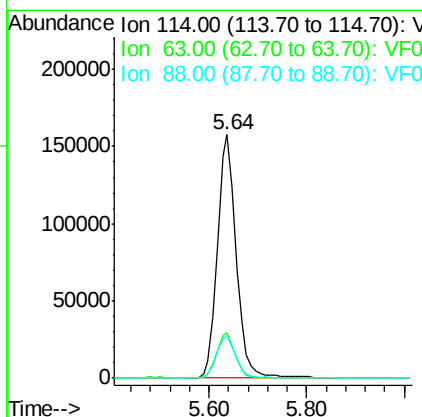
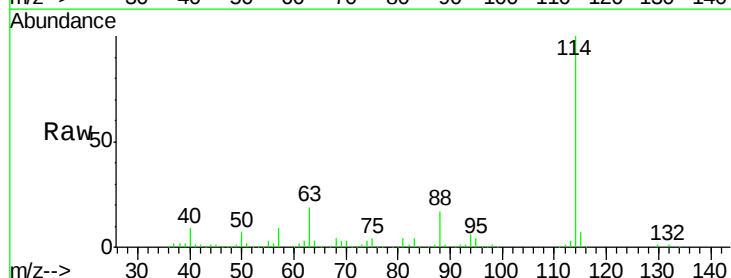
Manual Integrations
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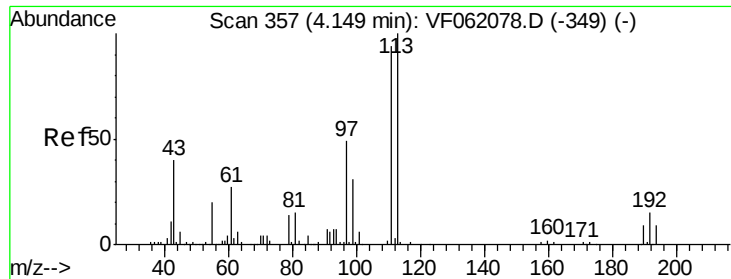
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 3/27/2019 11:57:12 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 508
 Delta R.T. 0.01 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Tgt Ion: 114 Resp: 425070
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 37.8
 88 17.4 0.0 36.4





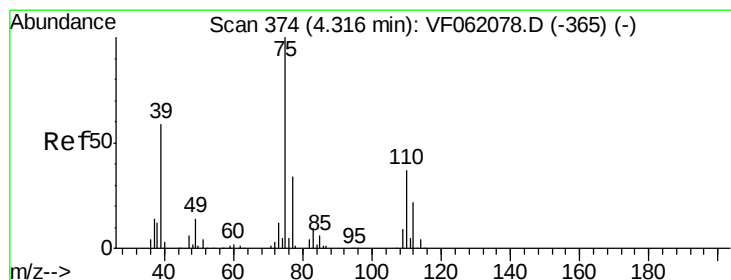
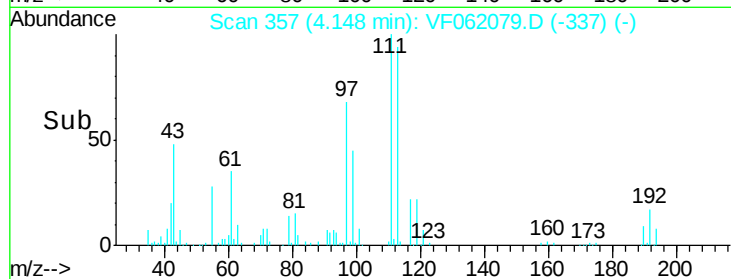
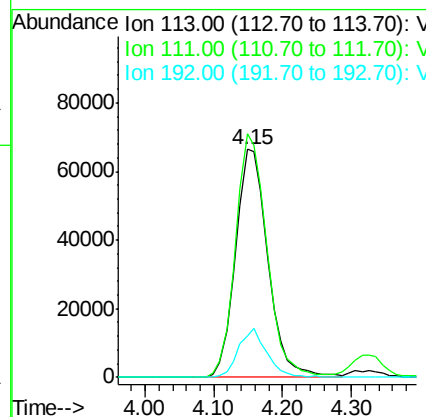
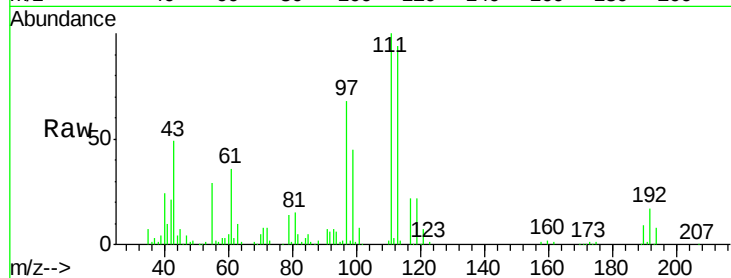
#35
Dibromofluoromethane
Concen: 75.547 ug/l
RT: 4.15 min Scan# 357
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
113	100		
111	106.8	75.4	113.0
192	18.4	12.3	18.5

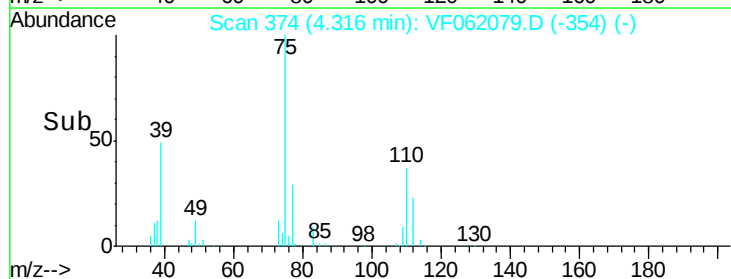
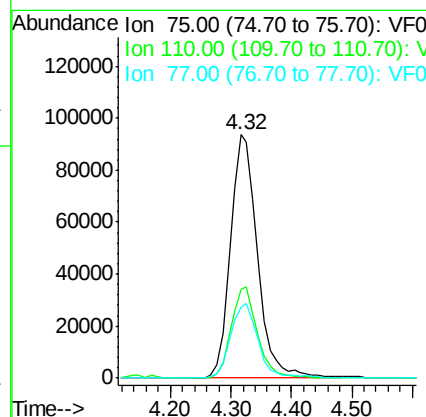
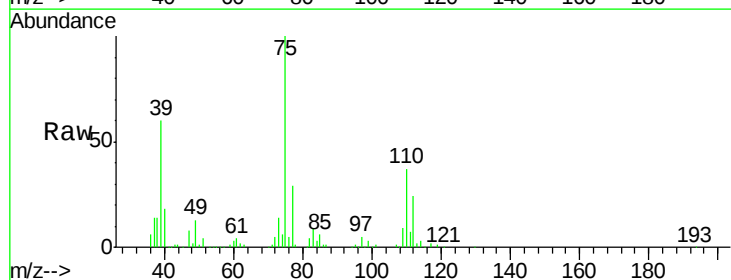
Manual Integrations
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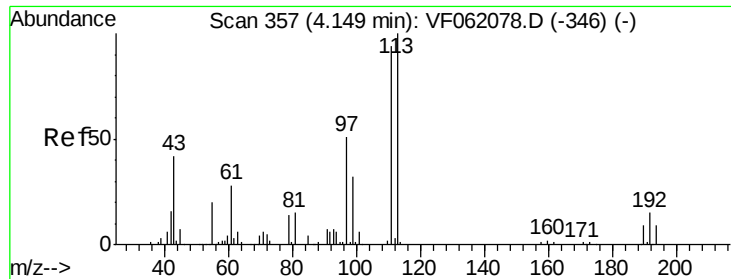
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#36
1,1-Dichloropropene
Concen: 71.671 ug/l
RT: 4.32 min Scan# 374
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.5	18.5	55.5
77	29.2	27.4	41.0





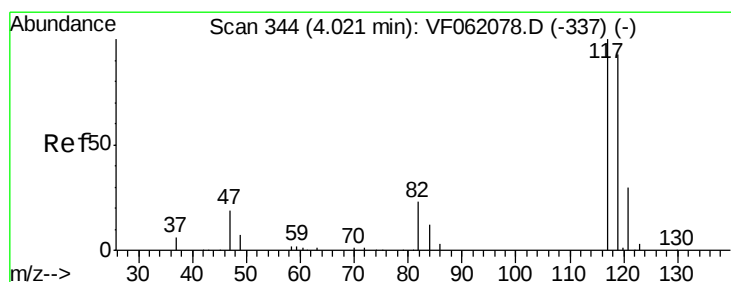
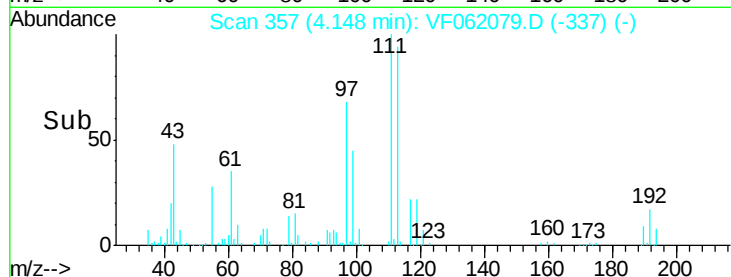
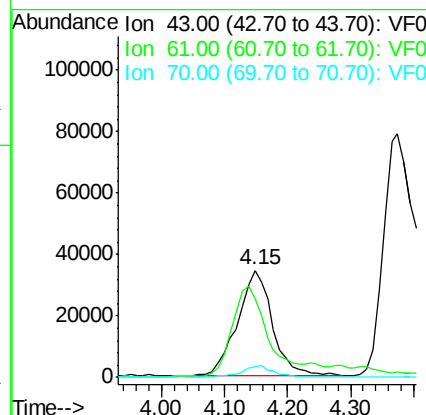
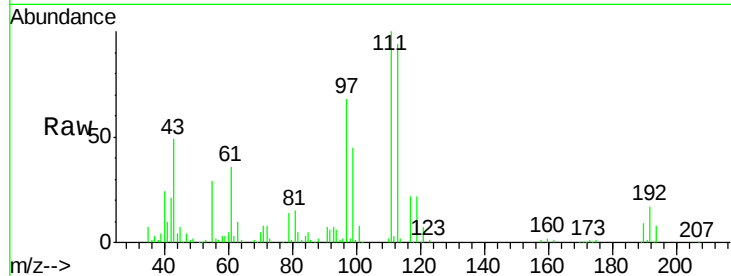
#37
Ethyl Acetate
Concen: 75.430 ug/l
RT: 4.15 min Scan# 357
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
61	73.1	53.6	80.4
70	10.4	9.0	13.6

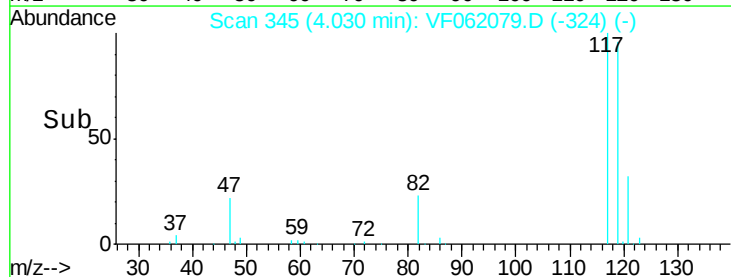
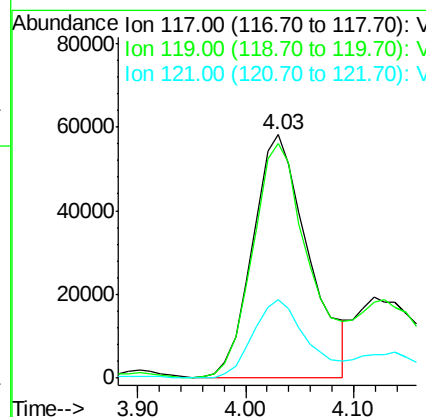
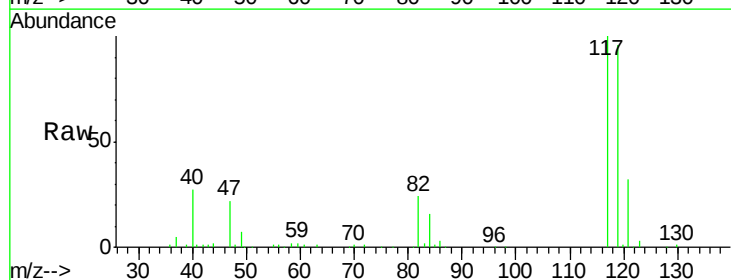
Manual Integrations
APPROVED

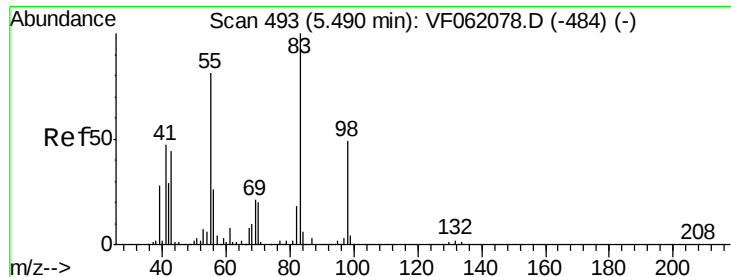
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#38
Carbon Tetrachloride
Concen: 75.630 ug/l
RT: 4.03 min Scan# 345
Delta R.T. 0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.3	74.7	112.1
121	32.3	23.6	35.4





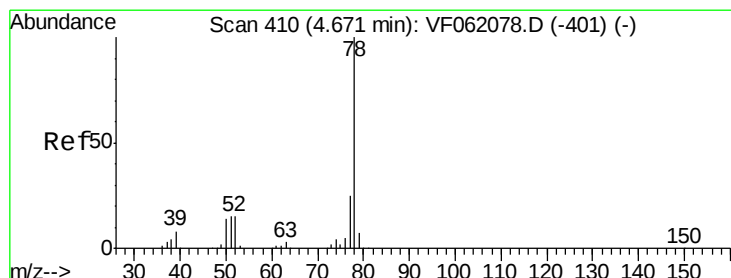
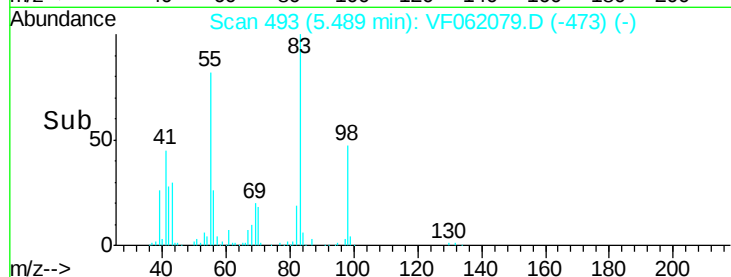
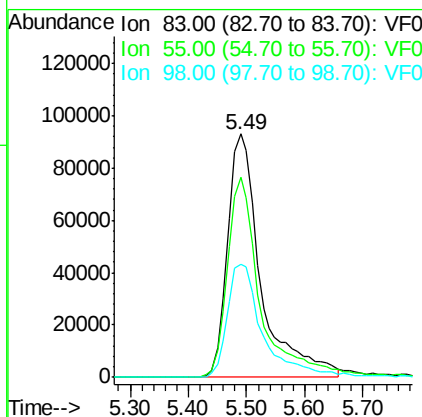
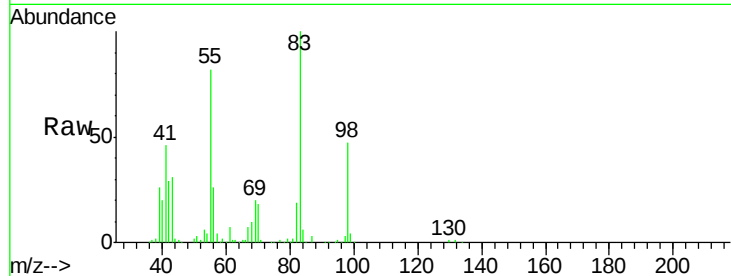
#39
Methylvlcvclohexane
Concen: 79.456 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.1	64.5	96.7
98	46.6	39.1	58.7

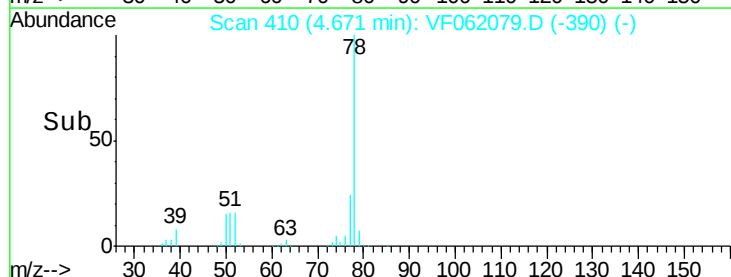
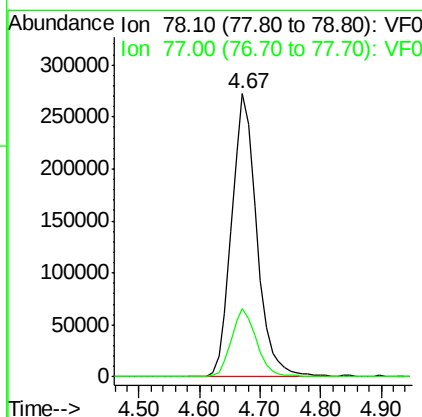
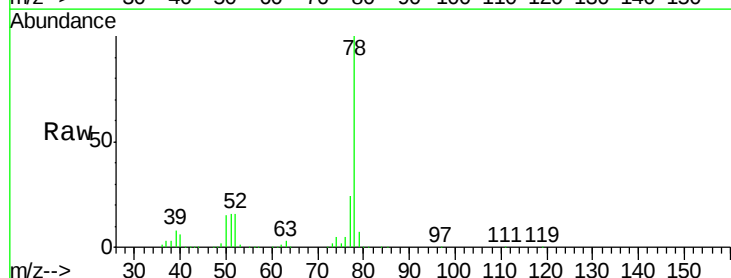
Manual Integrations
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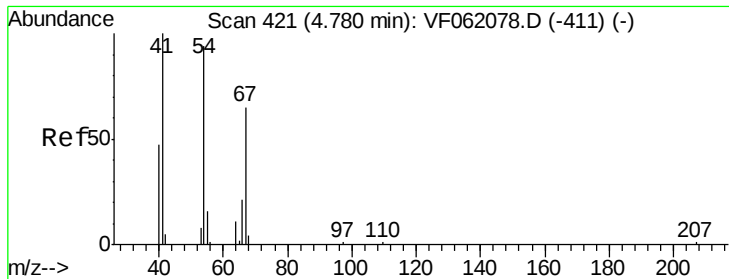
MMDadoda
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#40
Benzene
Concen: 72.771 ug/l
RT: 4.67 min Scan# 410
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.8	29.6





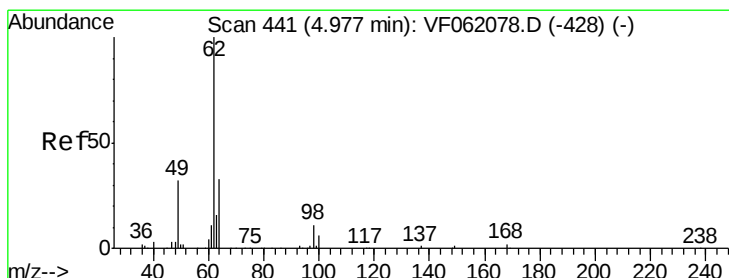
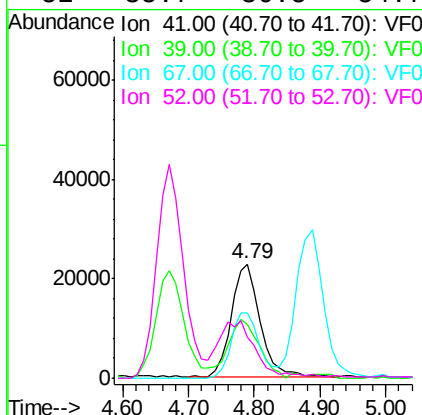
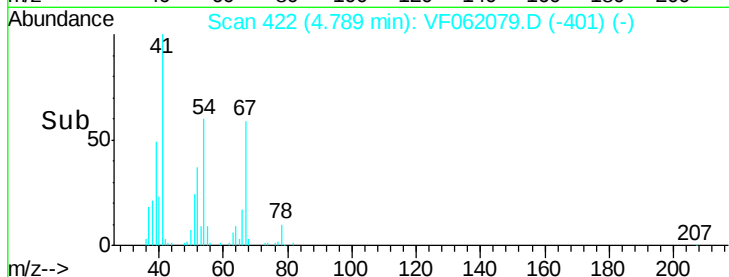
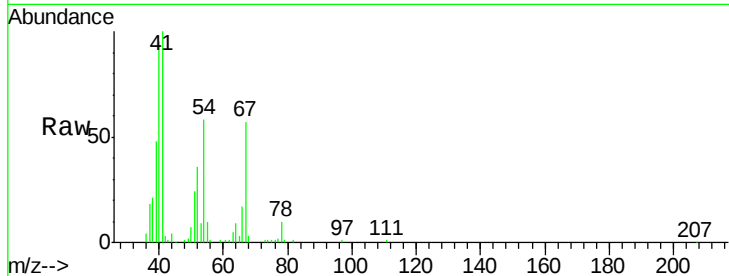
#41
Methacrylonitrile
Concen: 74.227 ug/l
RT: 4.79 min Scan# 422
Delta R.T. 0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	47.7	43.5	65.3	
67	57.2	51.6	77.4	
52	35.7	36.5	54.7	

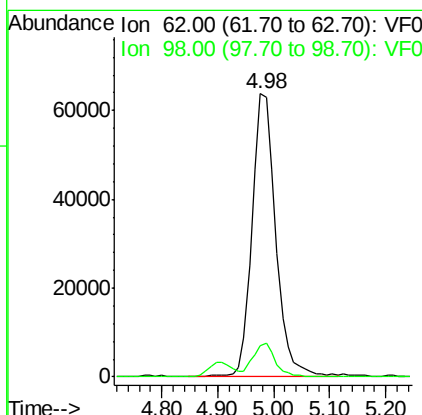
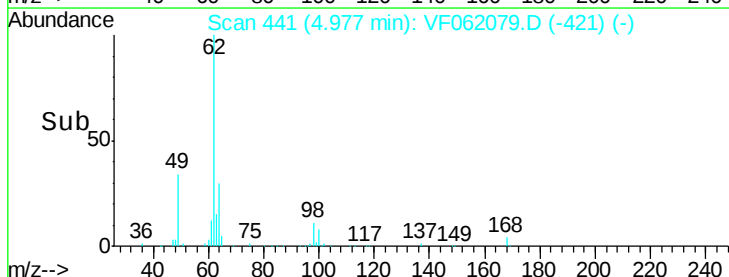
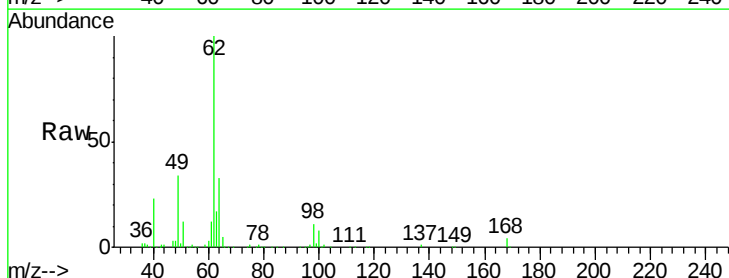
Manual Integrations
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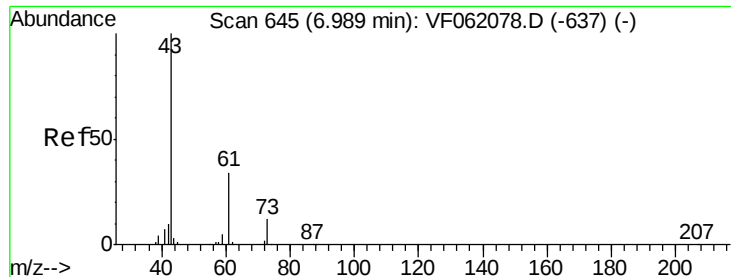
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#42
1,2-Dichloroethane
Concen: 73.323 ug/l
RT: 4.98 min Scan# 441
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	11.1	0.0	23.2	





#43

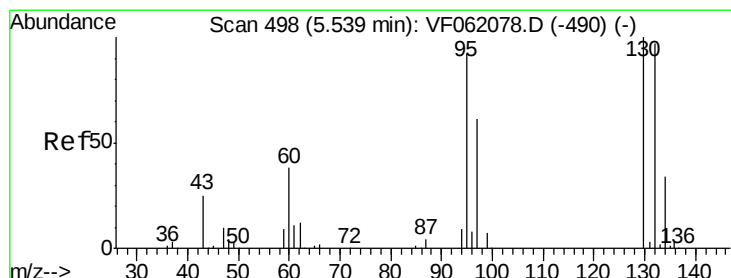
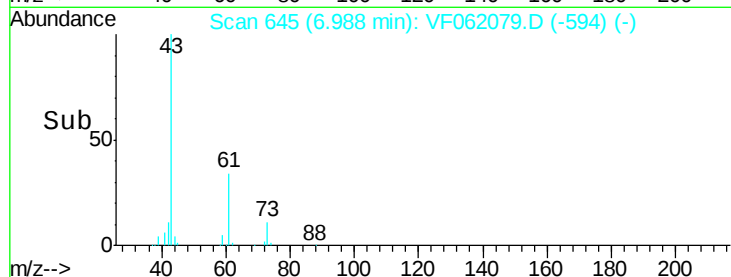
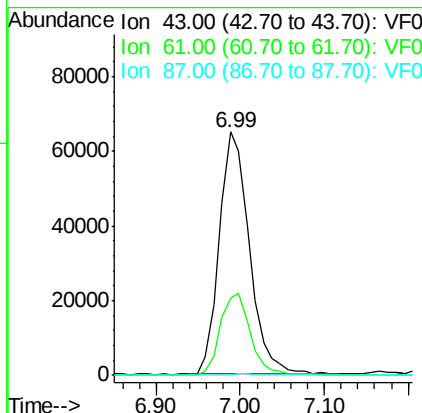
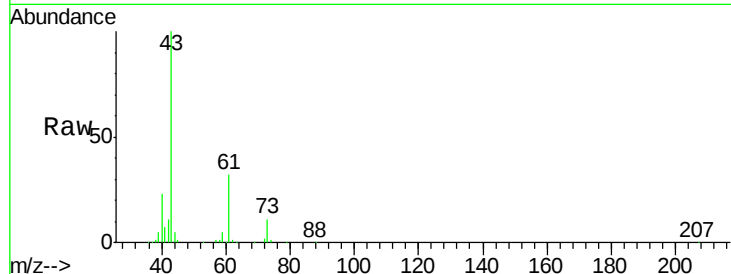
Isopropyl Acetate
 Concen: 75.206 ug/l
 RT: 6.99 min Scan# 645
 Delta R.T. -0.00 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.0	27.0	40.4
87	0.0	0.4	0.6

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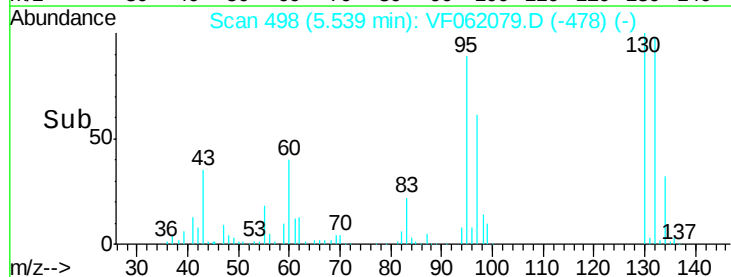
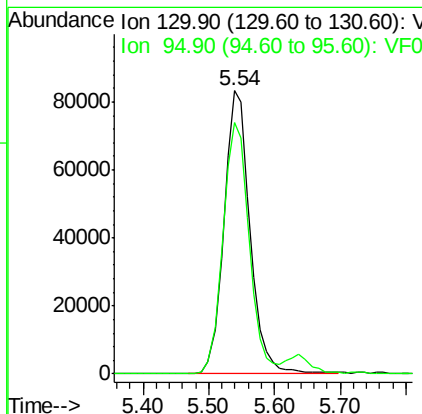
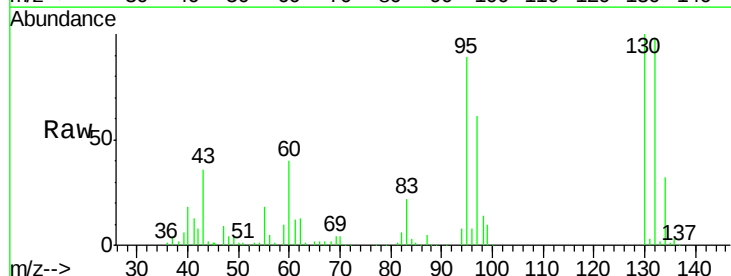
MMDadoda
 3/27/2019 11:57:12 AM

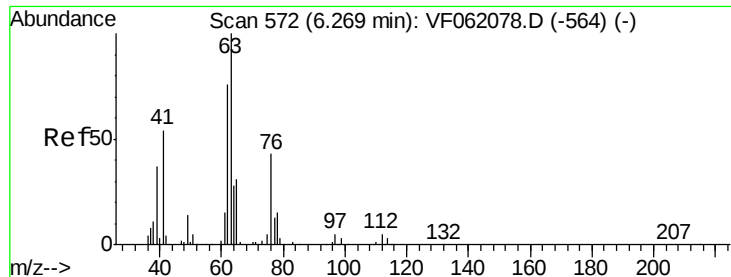


#44

Trichloroethene
 Concen: 69.627 ug/l
 RT: 5.54 min Scan# 498
 Delta R.T. -0.00 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	88.9	0.0	183.4





#45

1,2-Dichloropropane

Concen: 73.833 ug/l

RT: 6.27 min Scan# 572

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 63 Resp: 191139

Ion Ratio Lower Upper

63 100

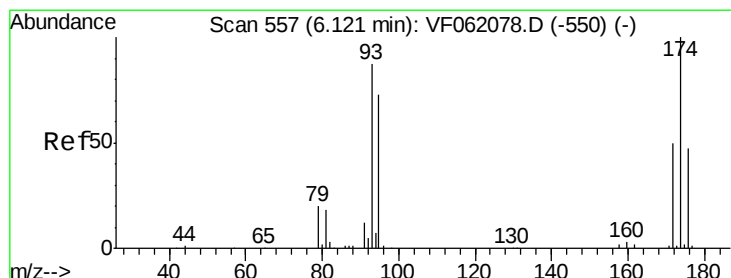
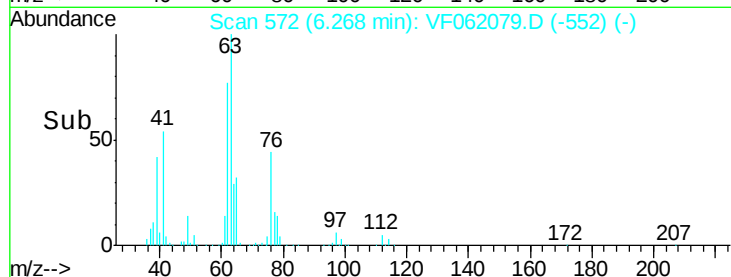
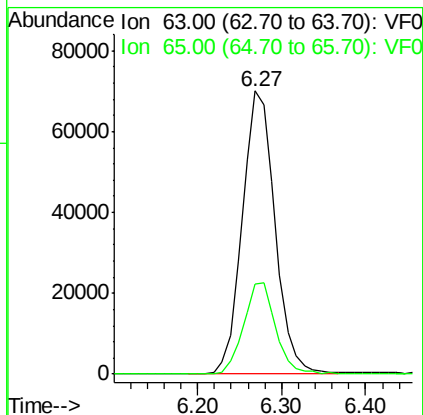
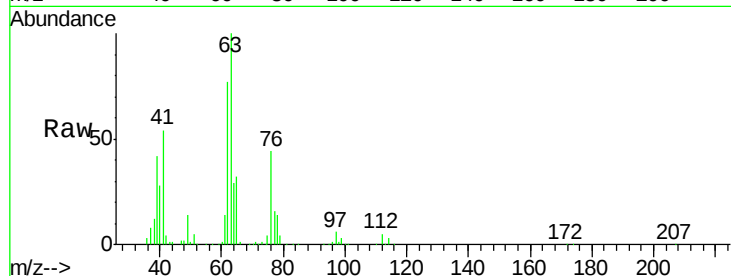
65 31.7 24.9 37.3

Manual Integrations

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#46

Dibromomethane

Concen: 74.964 ug/l

RT: 6.12 min Scan# 557

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

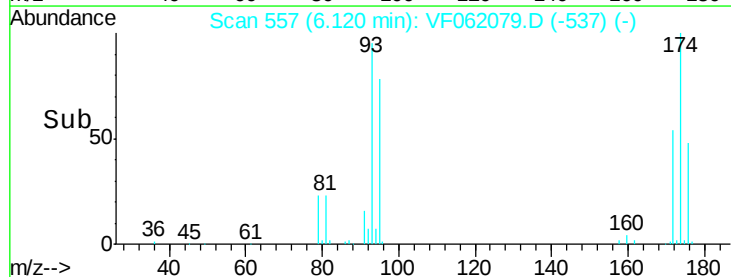
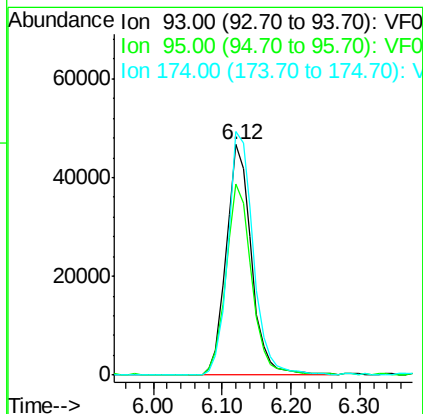
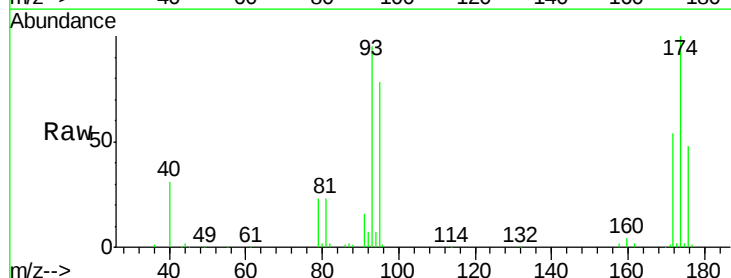
Tgt Ion: 93 Resp: 118658

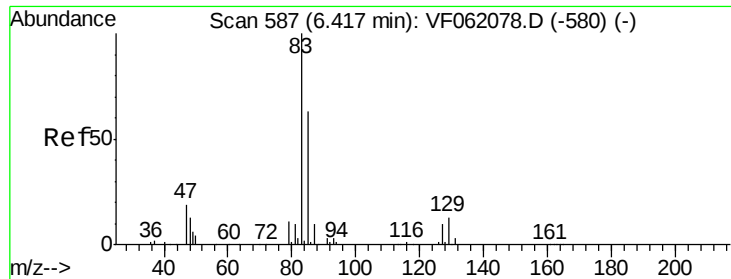
Ion Ratio Lower Upper

93 100

95 82.8 67.4 101.2

174 105.7 92.0 138.0





#47

Bromodichloromethane

Concen: 74.871 ug/l

RT: 6.42 min Scan# 587

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

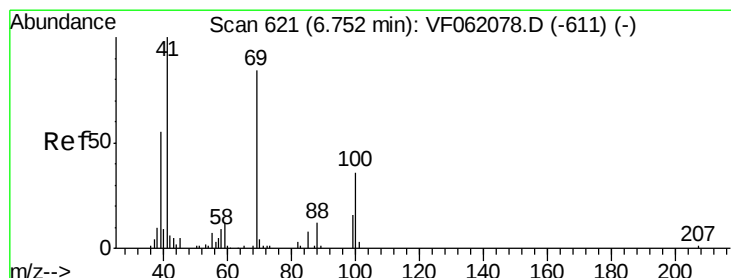
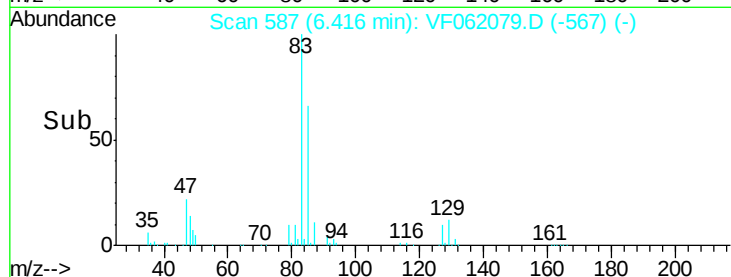
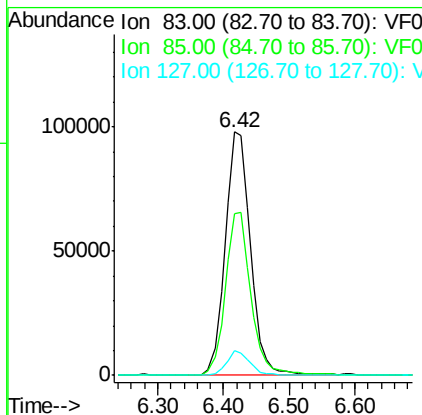
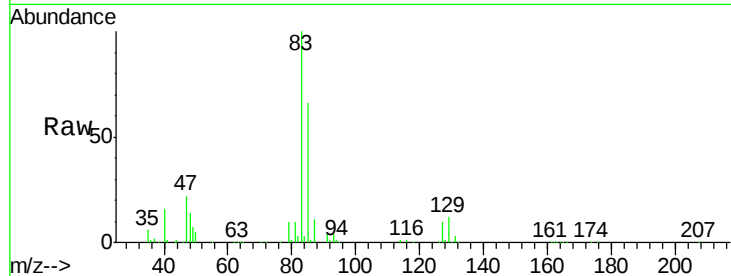
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	262501
Ion Ratio	Lower	Upper	
83	100		
85	66.2	50.7	76.1
127	9.9	7.8	11.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 75.845 ug/l

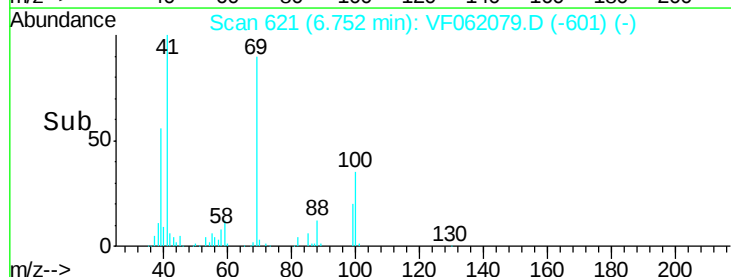
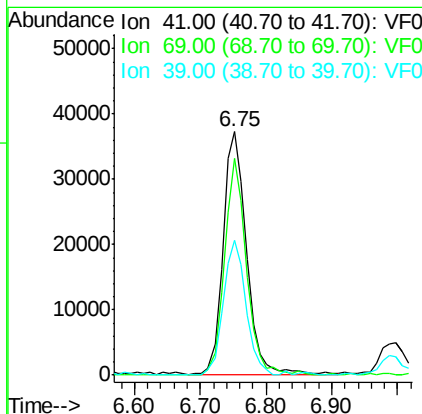
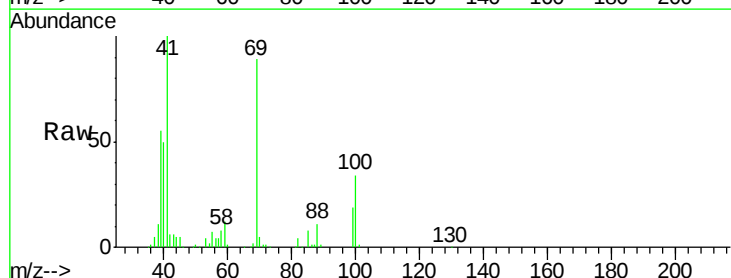
RT: 6.75 min Scan# 621

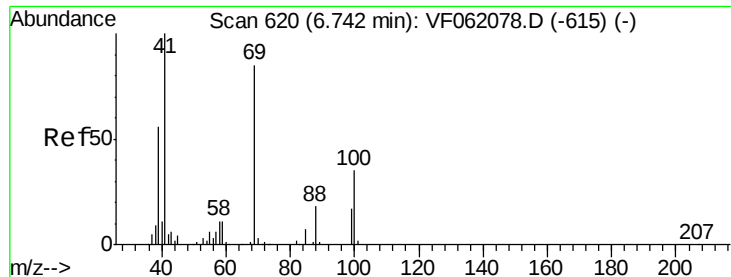
Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion:	41	Resp:	92539
Ion Ratio	Lower	Upper	
41	100		
69	89.0	66.6	100.0
39	55.2	43.6	65.4





#49

1,4-Dioxane

Concen: 1424.164 ug/l

RT: 6.74 min Scan# 620

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

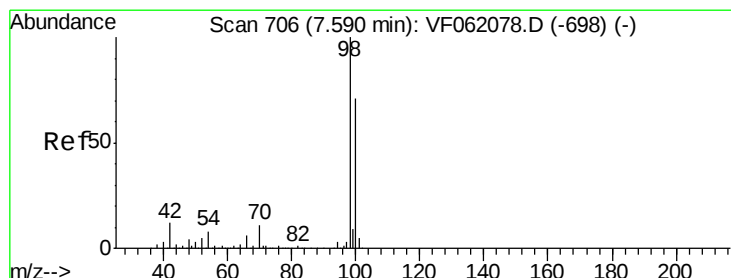
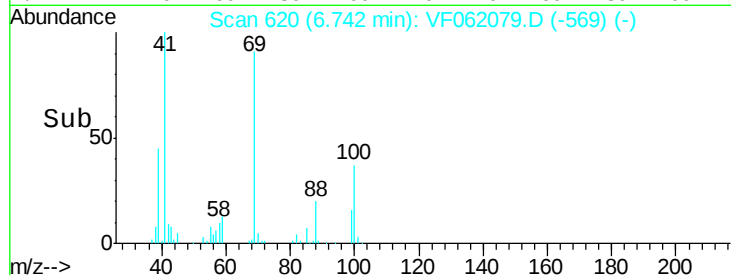
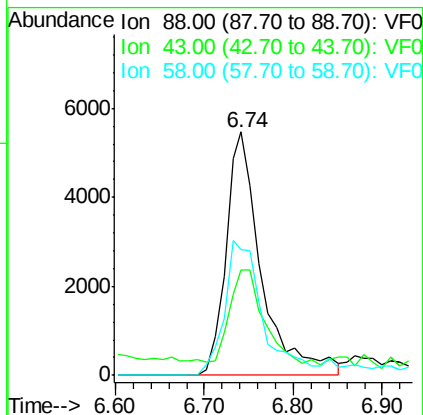
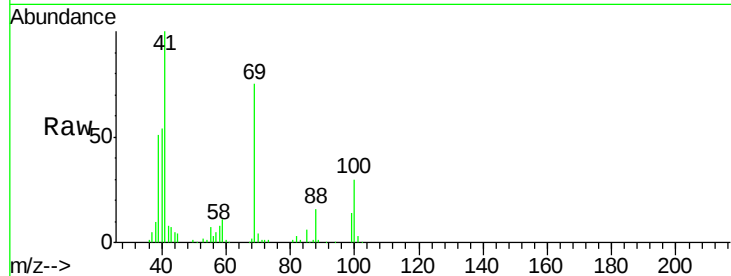
ClientSampleId :

VSTDIC075

Tot Ion:	88	Resp:	15247
Ion	Ratio	Lower	Upper
88	100		
43	43.5	35.0	52.4
58	51.6	49.9	74.9

Manual Integrations
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#50

Toluene-d8

Concen: 74.915 ug/l

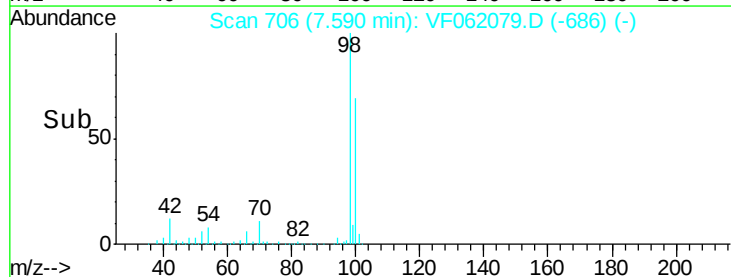
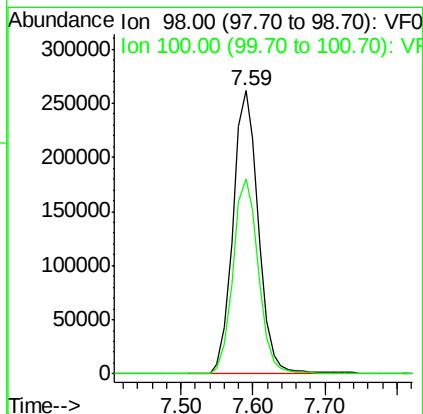
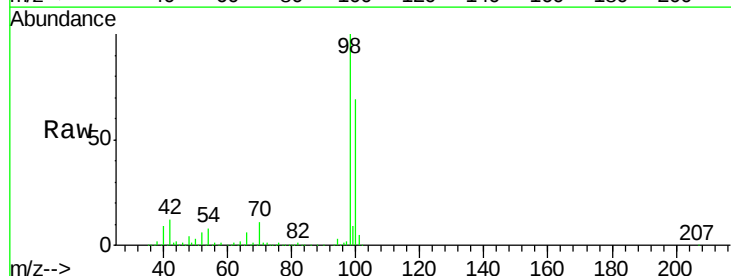
RT: 7.59 min Scan# 706

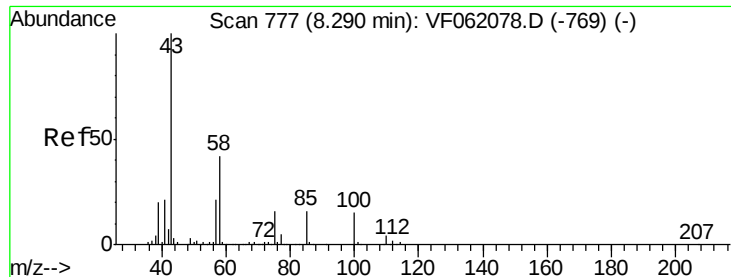
Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion:	98	Resp:	643010
Ion	Ratio	Lower	Upper
98	100		
100	68.7	57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 361.803 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 43 Resp: 518917

Ion Ratio Lower Upper

43 100

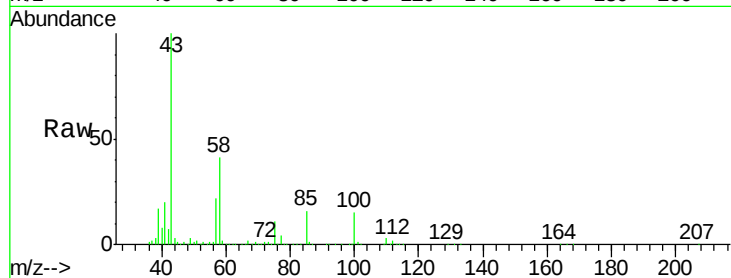
58 41.4 33.8 50.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

250000

200000

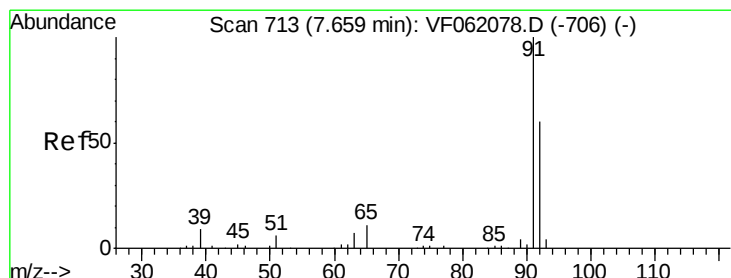
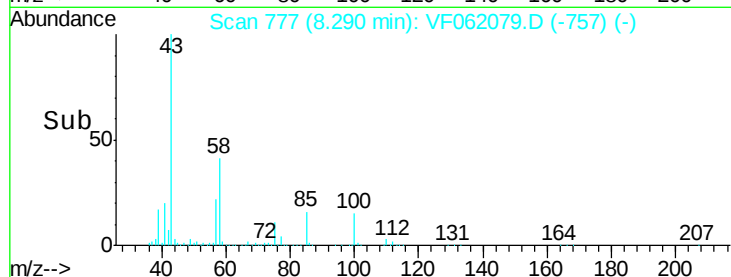
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 73.685 ug/l

RT: 7.66 min Scan# 713

Delta R.T. -0.00 min

Lab File: VF062079.D

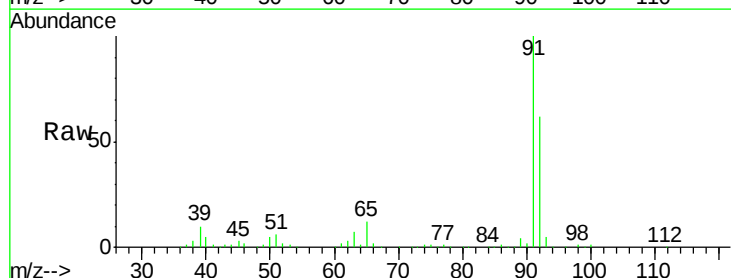
Acq: 22 Mar 2019 12:53

Tgt Ion: 92 Resp: 463234

Ion Ratio Lower Upper

92 100

91 162.2 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.66

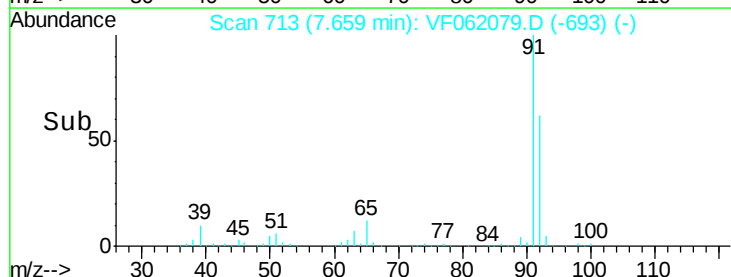
300000

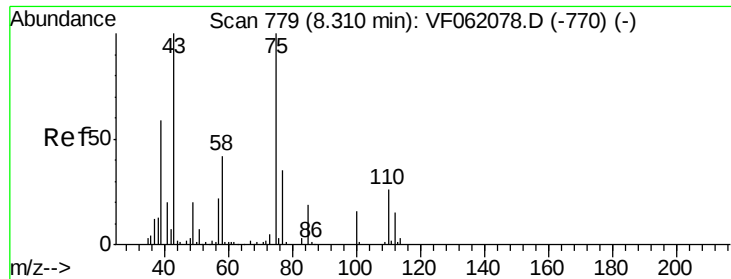
200000

100000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 75.644 ug/l

RT: 8.31 min Scan# 779

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tot Ion: 75 Resp: 208197

Ion Ratio Lower Upper

75 100

77 32.3 28.0 42.0

Instrument :

MSVOA_F

ClientSampleId :

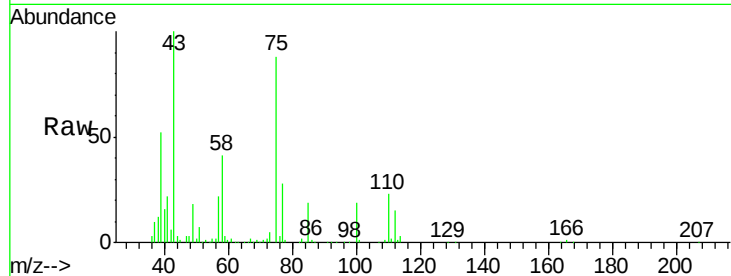
VSTDIC075

Manual Integrations

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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.31

100000

80000

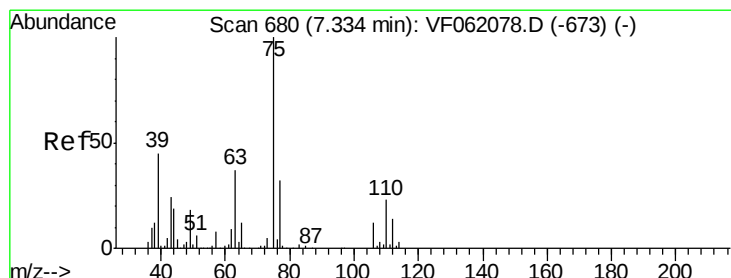
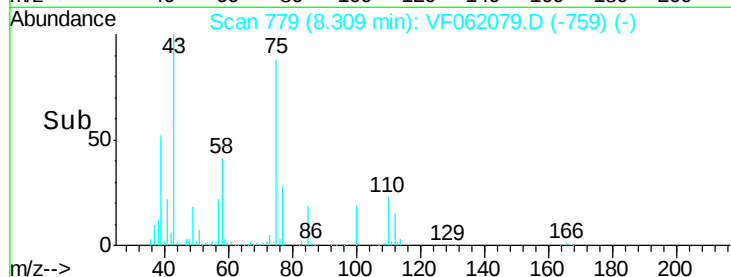
60000

40000

20000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 76.396 ug/l

RT: 7.33 min Scan# 680

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

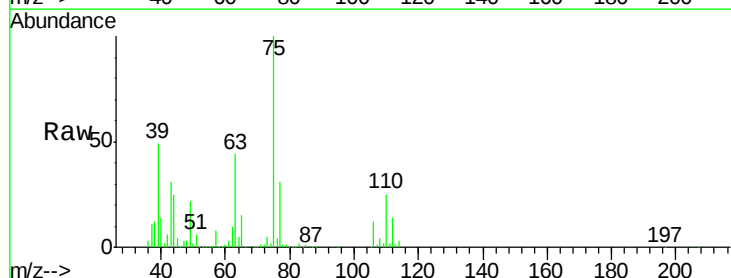
Tgt Ion: 75 Resp: 300855

Ion Ratio Lower Upper

75 100

77 30.9 25.8 38.6

39 48.7 35.9 53.9



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

7.33

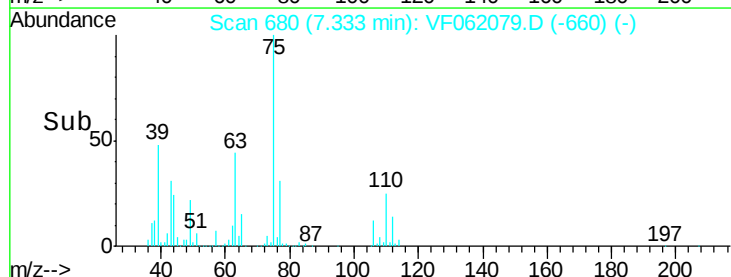
150000

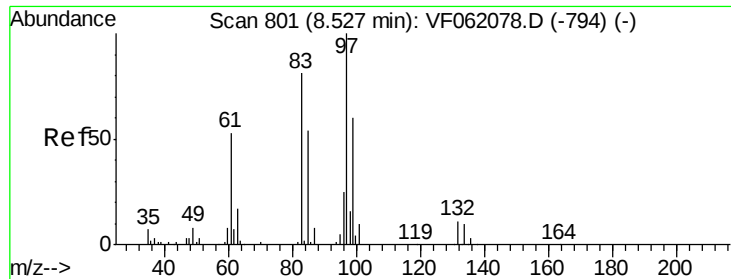
100000

50000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 74.942 ug/l

RT: 8.53 min Scan# 801

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

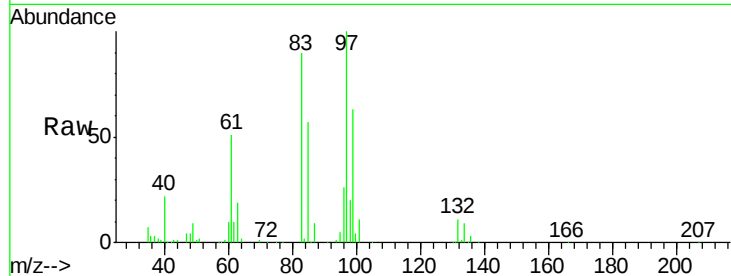
ClientSampleId :

VSTDIC075

Tot Ion:	97	Resp:	133825
Ion	Ratio	Lower	Upper
97	100		
83	89.7	64.6	97.0
85	56.6	43.6	65.4
99	63.0	48.2	72.2

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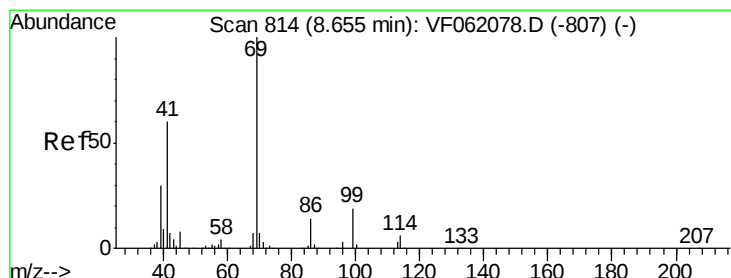
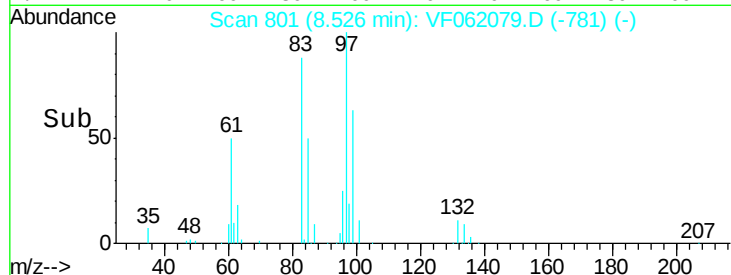
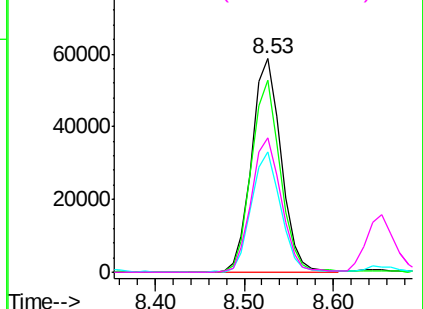


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 75.196 ug/l

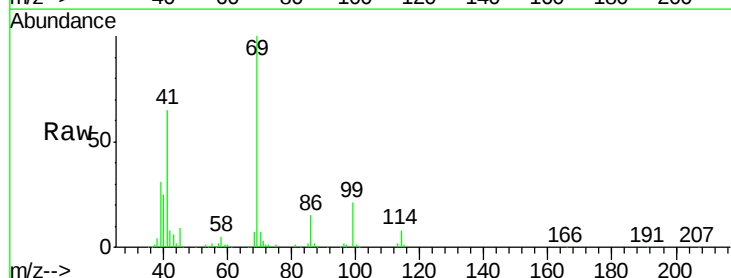
RT: 8.65 min Scan# 814

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

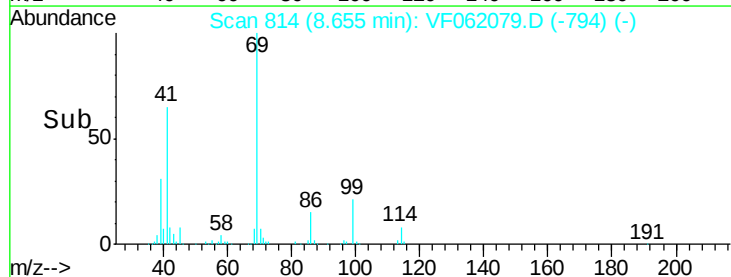
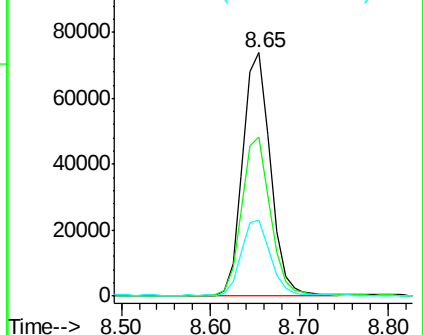
Tgt Ion:	69	Resp:	160142
Ion	Ratio	Lower	Upper
69	100		
41	65.3	48.2	72.2
39	31.2	24.0	36.0

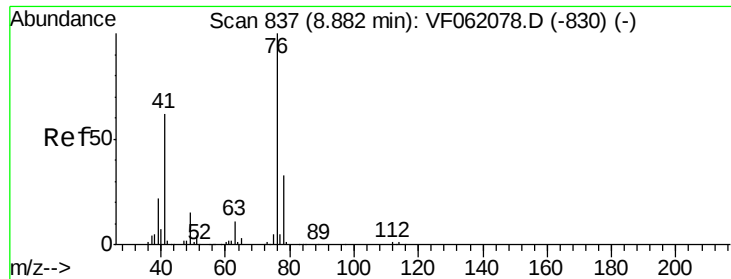


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 77.397 ug/l

RT: 8.89 min Scan# 838

Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 76 Resp: 229385

Ion Ratio Lower Upper

76 100

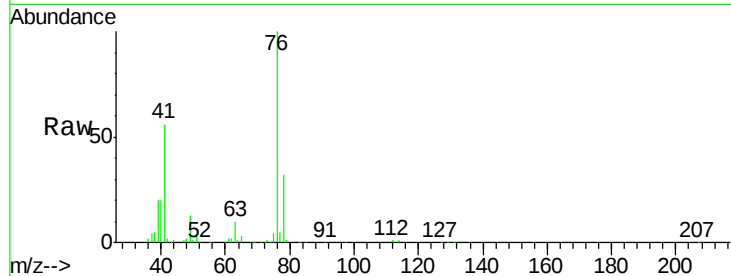
78 32.3 26.6 39.8

Manual Integrations

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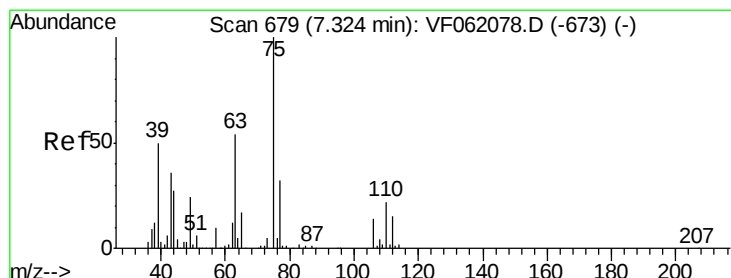
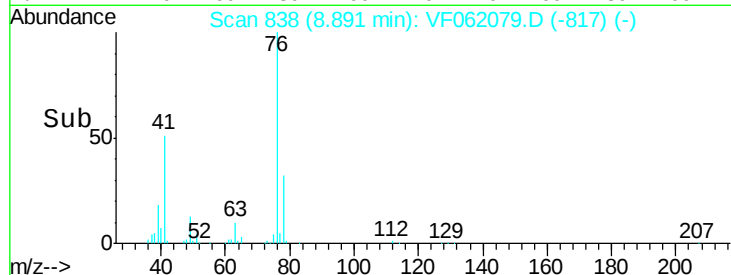
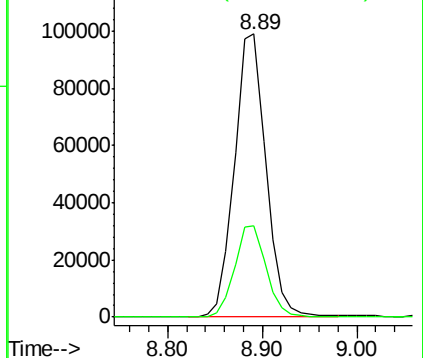
MMDadoda

3/27/2019 11:57:12 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 404.204 ug/l

RT: 7.33 min Scan# 680

Delta R.T. 0.01 min

Lab File: VF062079.D

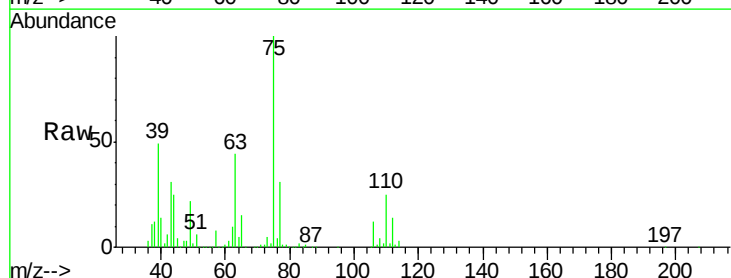
Acq: 22 Mar 2019 12:53

Tgt Ion: 63 Resp: 130623

Ion Ratio Lower Upper

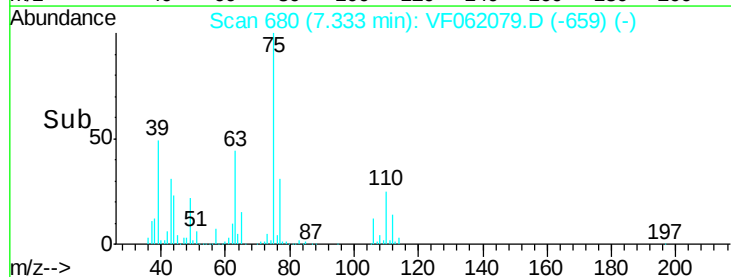
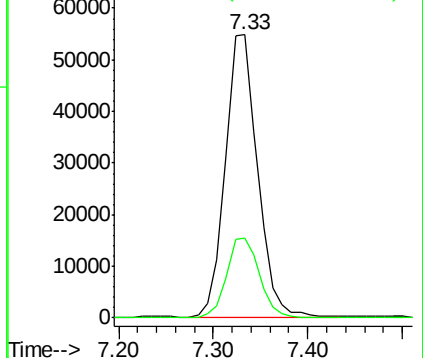
63 100

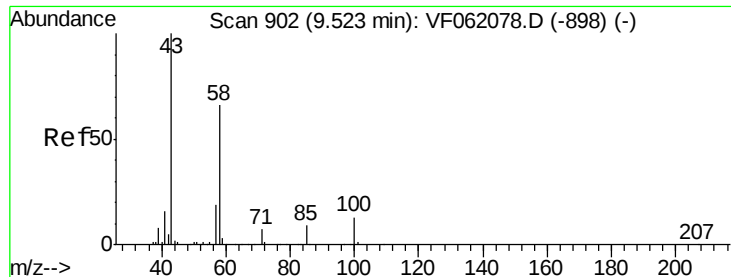
106 28.2 21.5 32.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





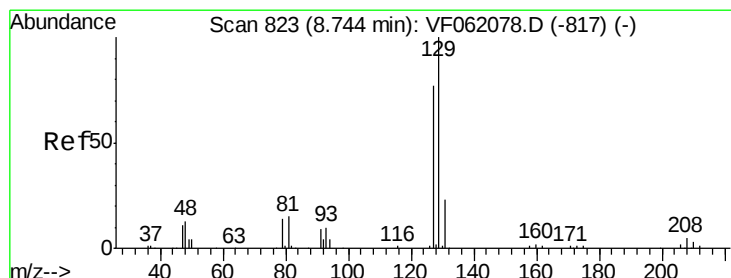
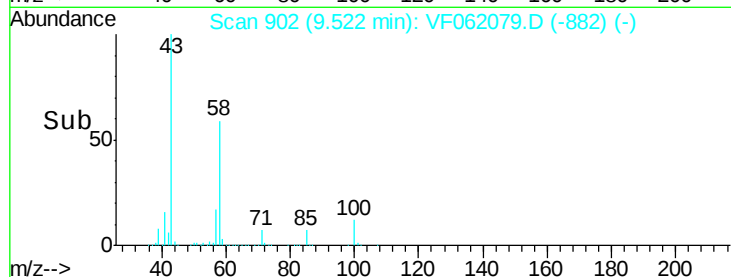
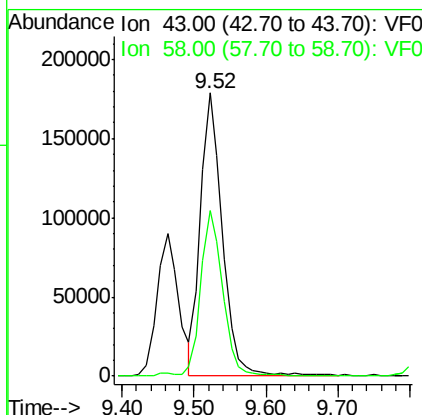
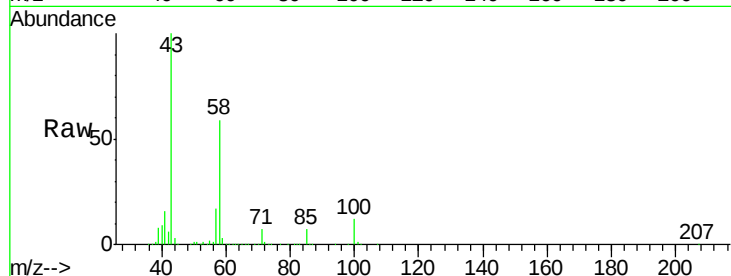
#59
2-Hexanone
Concen: 355.907 ug/l
RT: 9.52 min Scan# 902
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	43	Resp	374121
Ion Ratio	100	Lower	Upper
43	100		
58	58.6	28.8	86.4

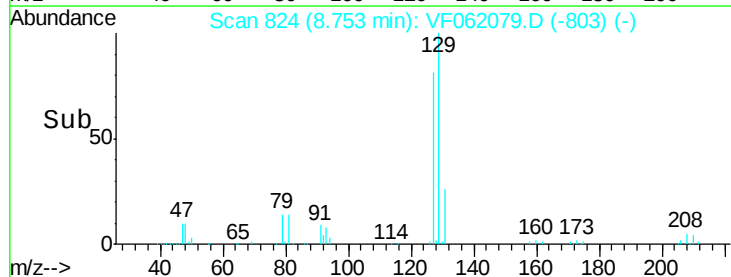
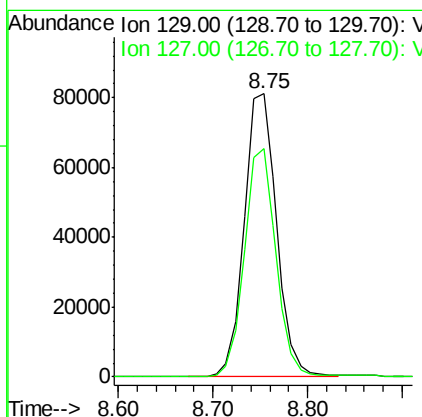
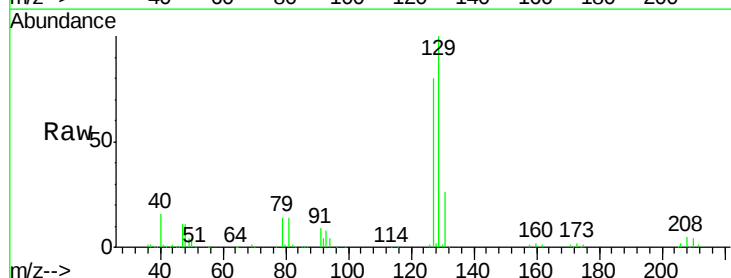
Manual Integrations
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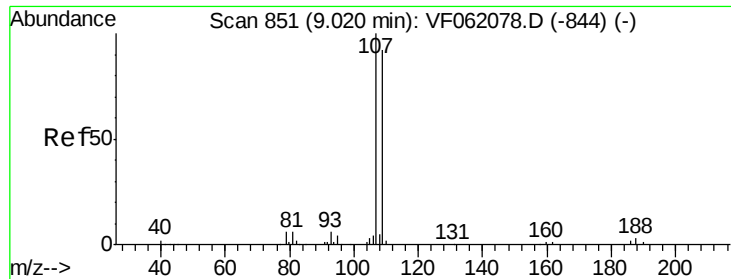
MMDadoda
3/27/2019 11:57:12 AM



#60
Dibromochloromethane
Concen: 77.803 ug/l
RT: 8.75 min Scan# 824
Delta R.T. 0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	129	Resp	193142
Ion Ratio <th>100</th> <th>Lower</th> <th>Upper</th>	100	Lower	Upper
129	100		
127	80.5	38.7	116.1





#61

1,2-Dibromoethane

Concen: 78.157 ug/l

RT: 9.02 min Scan# 851

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:107 Resp: 148901

Ion Ratio Lower Upper

107 100

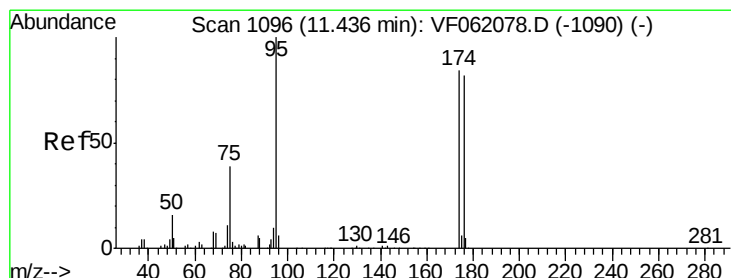
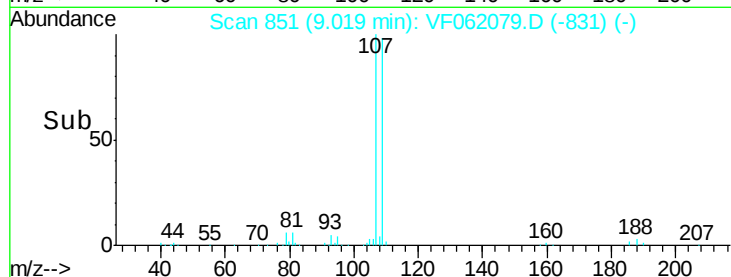
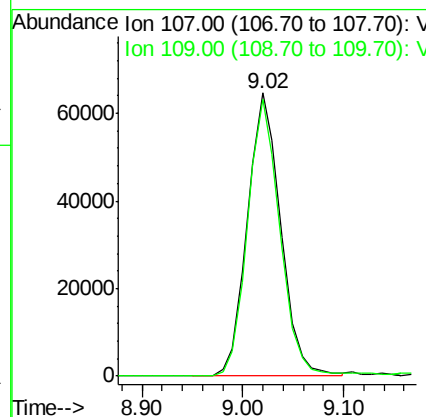
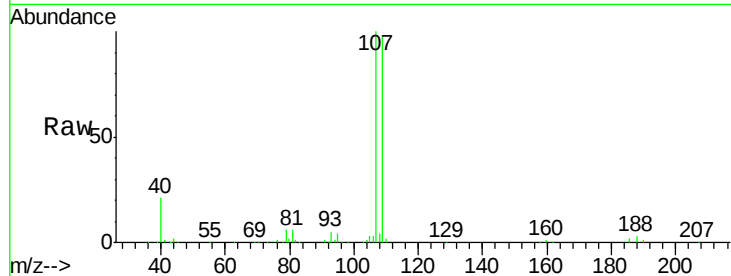
109 98.0 73.4 110.0

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#62

4-Bromofluorobenzene

Concen: 75.158 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

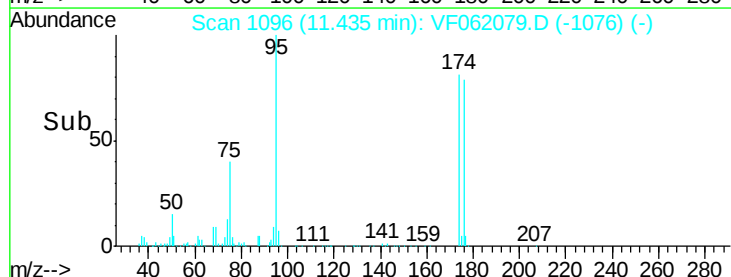
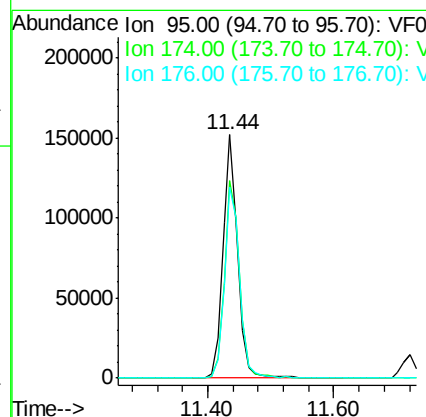
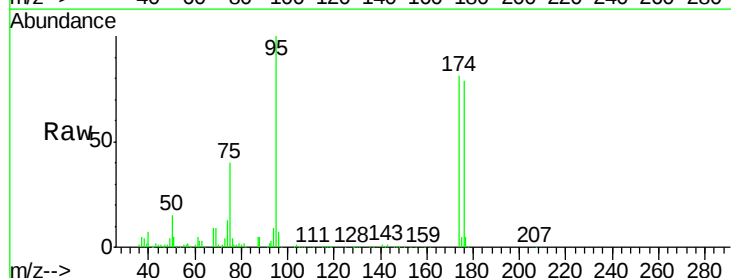
Tgt Ion: 95 Resp: 249043

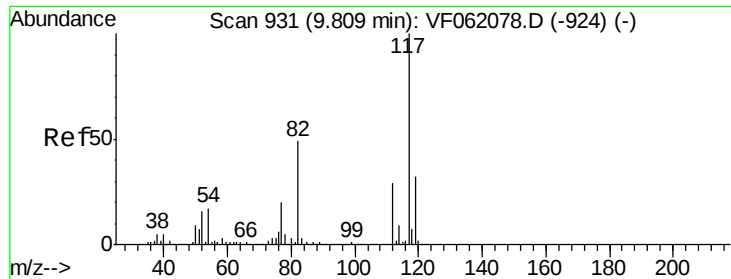
Ion Ratio Lower Upper

95 100

174 80.9 0.0 168.2

176 78.5 0.0 164.2





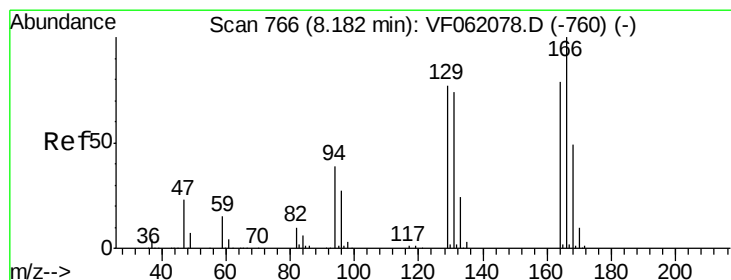
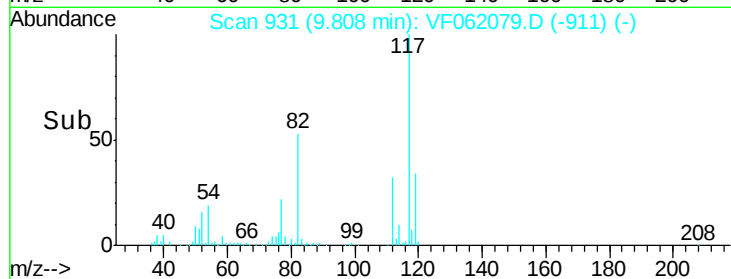
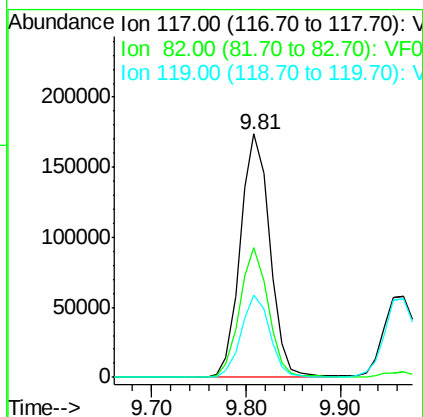
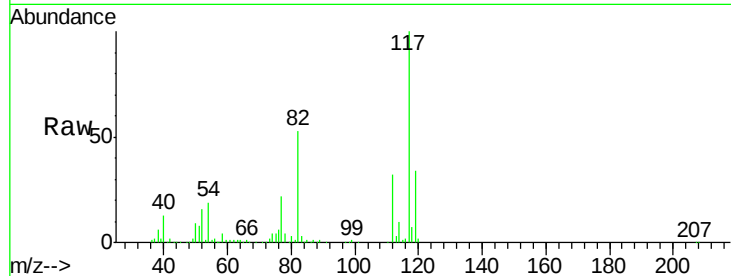
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
117	100	377906		
82	53.1		39.2	58.8
119	34.0		25.4	38.2

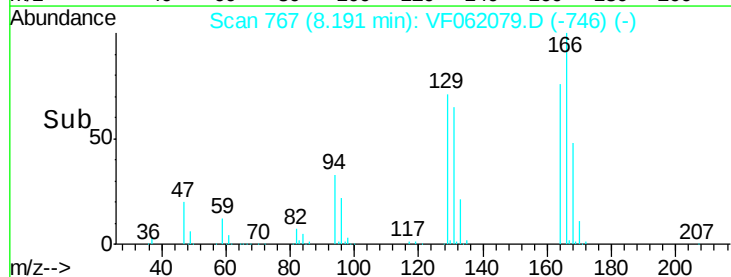
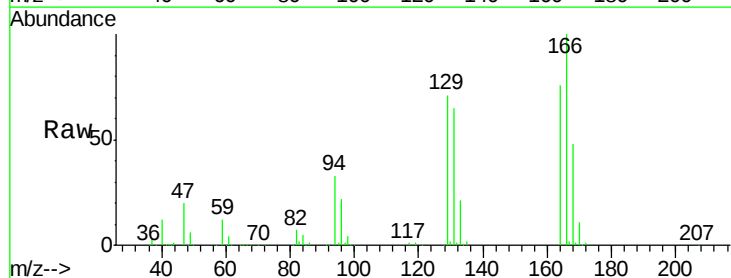
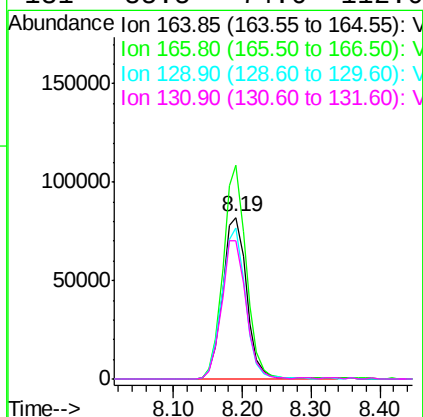
Manual Integrations
APPROVED

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3/27/2019 11:57:12 AM



#64
Tetrachloroethene
Concen: 68.411 ug/l
RT: 8.19 min Scan# 767
Delta R.T. 0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	199736		
166	132.3		100.9	151.3
129	93.2		77.9	116.9
131	85.5		74.6	112.0





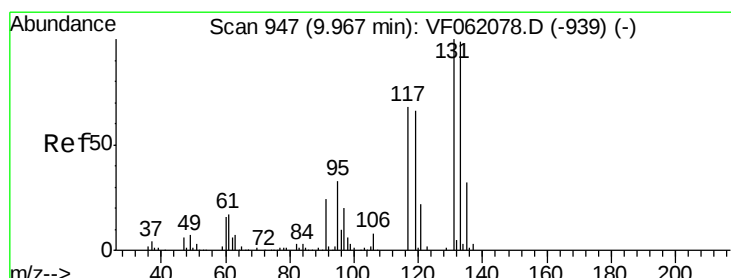
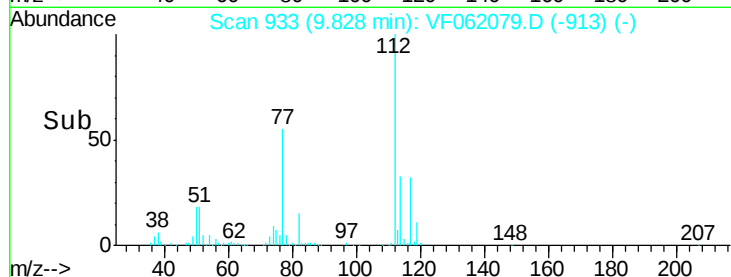
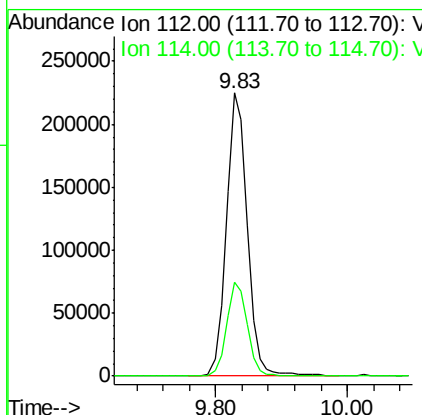
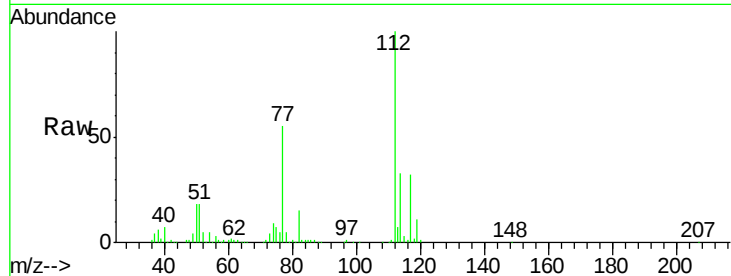
#65
Chlorobenzene
Concen: 70.894 ug/l
RT: 9.83 min Scan# 933
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion:112 Resp: 501283
Ion Ratio Lower Upper
112 100
114 33.1 26.0 39.0

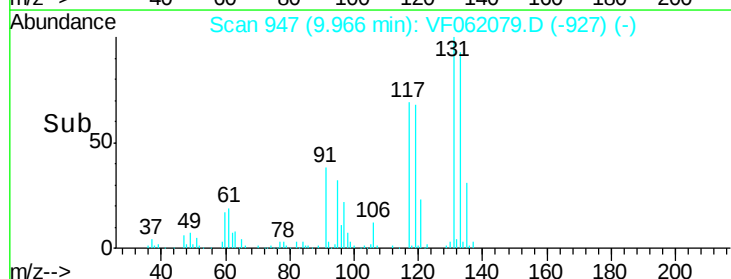
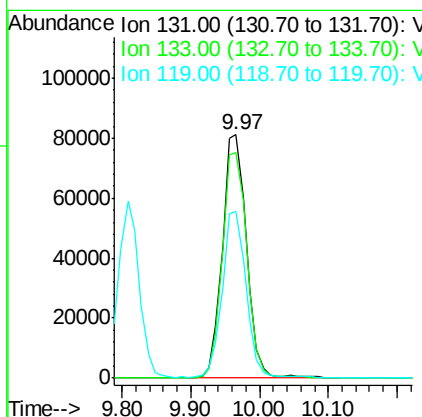
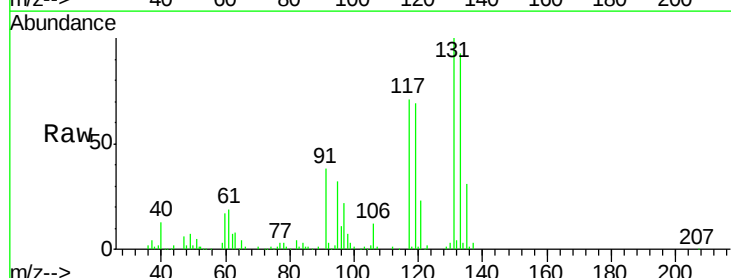
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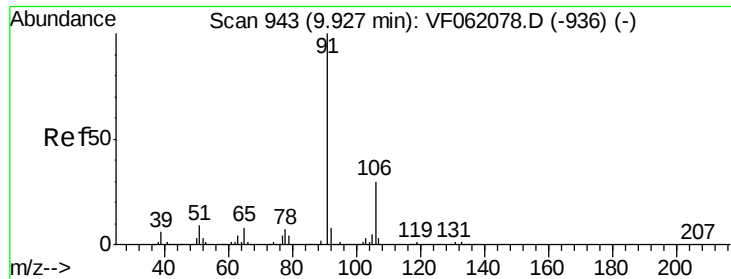
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#66
1,1,1,2-Tetrachloroethane
Concen: 69.753 ug/l
RT: 9.97 min Scan# 947
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion:131 Resp: 198116
Ion Ratio Lower Upper
131 100
133 92.5 49.3 147.8
119 68.6 33.5 100.4





#67

Ethyl Benzene

Concen: 71.427 ug/l

RT: 9.94 min Scan# 944

Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tot Ion: 91 Resp: 878328

Ion Ratio Lower Upper

91 100

106 32.0 24.0 36.0

Instrument :

MSVOA_F

ClientSampleId :

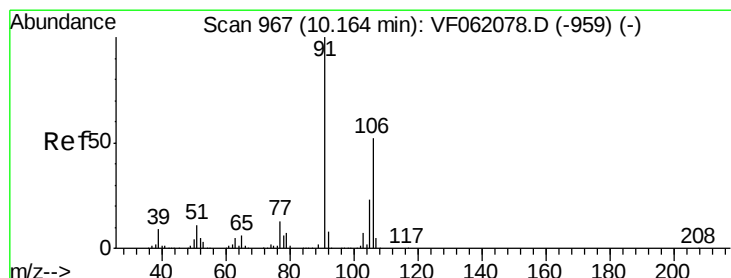
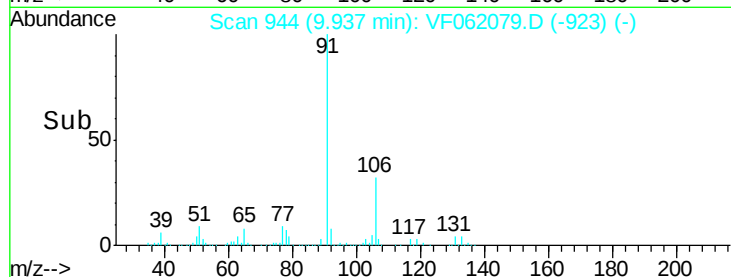
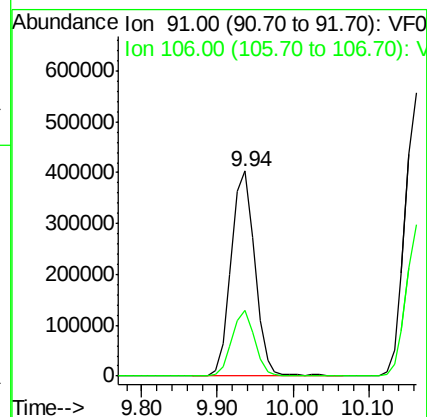
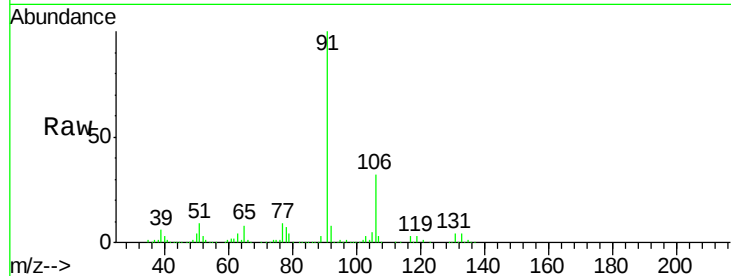
VSTDIC075

Manual Integrations

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#68

m/p-Xylenes

Concen: 140.514 ug/l

RT: 10.16 min Scan# 967

Delta R.T. -0.00 min

Lab File: VF062079.D

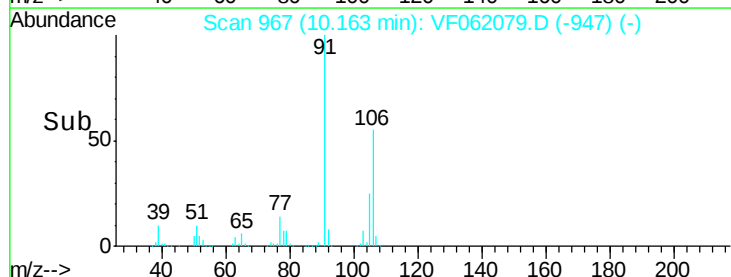
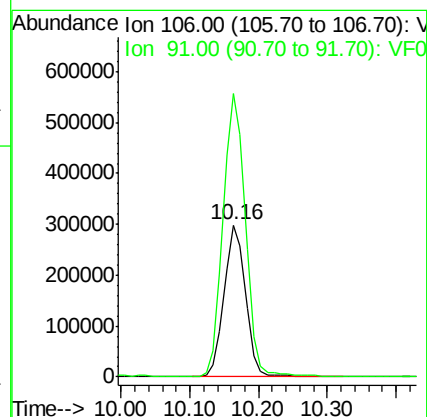
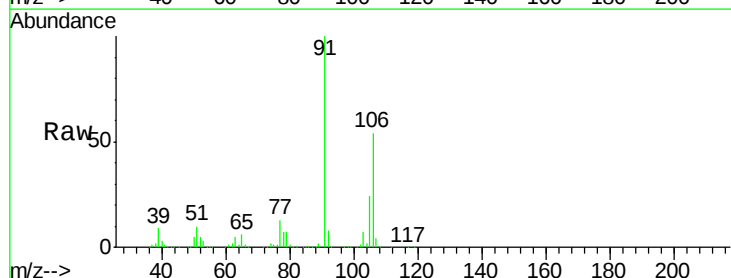
Acq: 22 Mar 2019 12:53

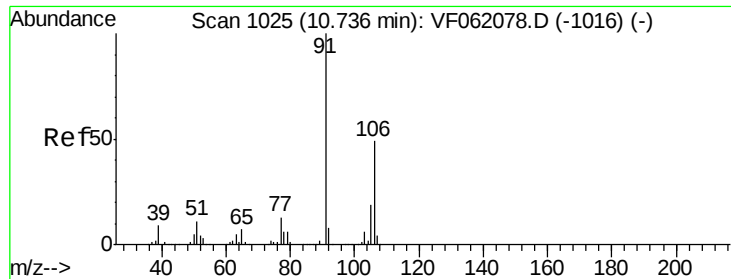
Tgt Ion: 106 Resp: 645812

Ion Ratio Lower Upper

106 100

91 186.2 154.4 231.6





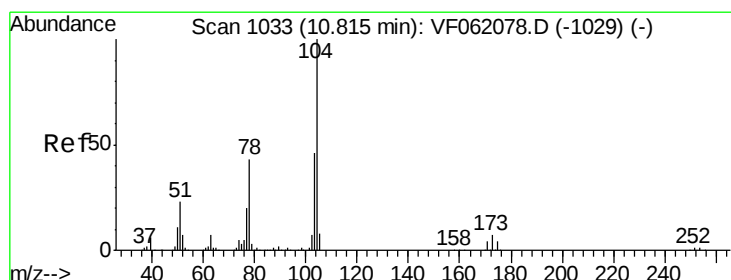
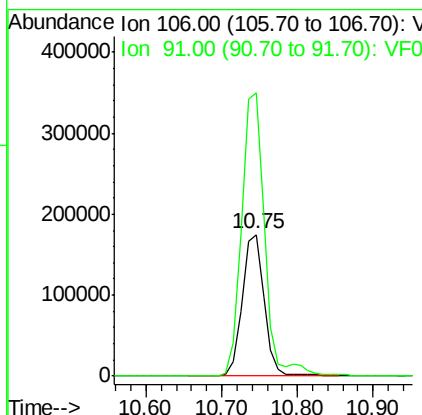
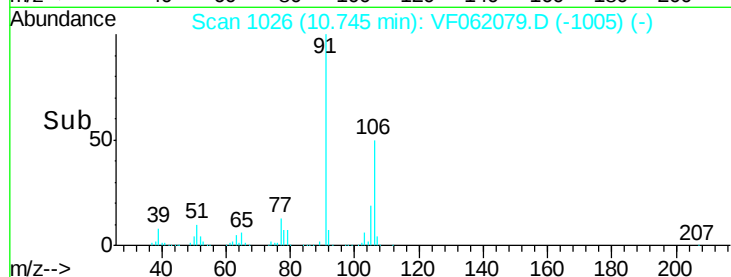
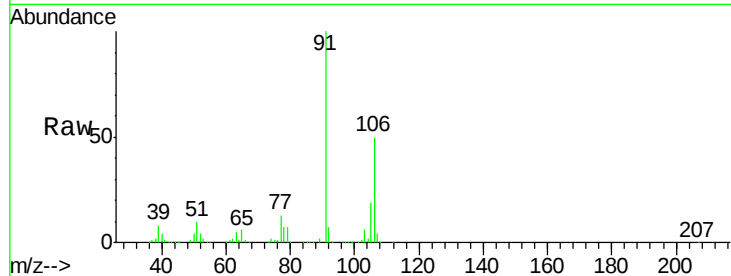
#69
o-Xylene
Concen: 72.522 ug/l
RT: 10.75 min Scan# 1026
Delta R.T. 0.01 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	349101		
91	91	200.1	102.6	307.8	

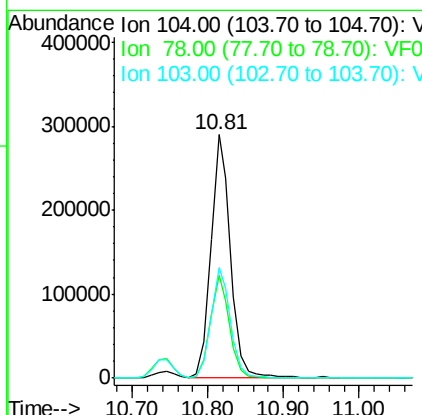
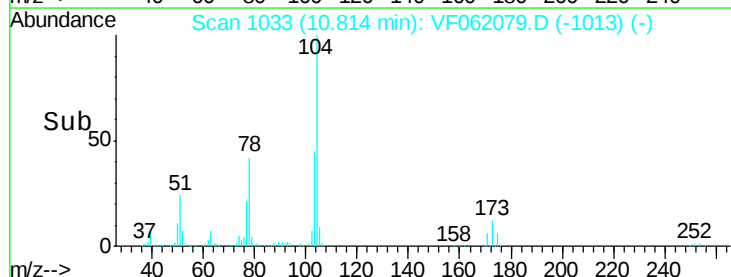
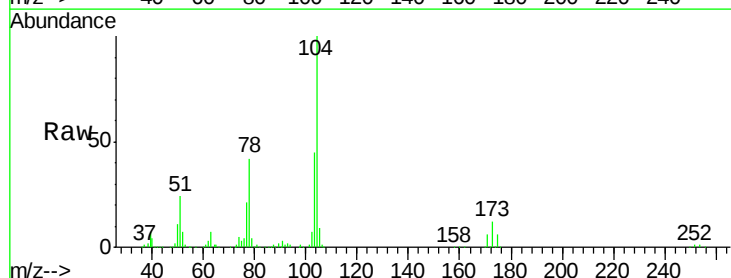
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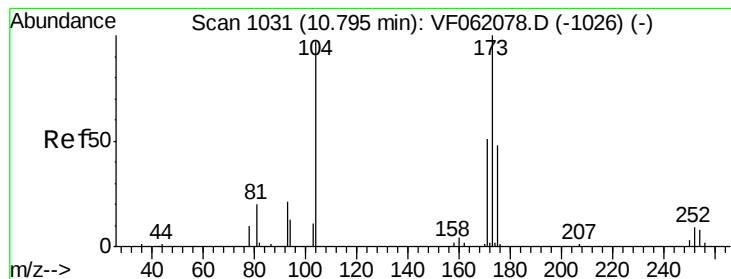
MMDadoda
3/27/2019 11:57:12 AM



#70
Styrene
Concen: 71.936 ug/l
RT: 10.81 min Scan# 1033
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	524663		
78	78	42.1	34.3	51.5	
103	103	45.4	36.9	55.3	





#71

Bromoform

Concen: 72.547 ug/l

RT: 10.80 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:173 Resp: 105394

Ion Ratio Lower Upper

173 100

175 50.1 24.1 72.4

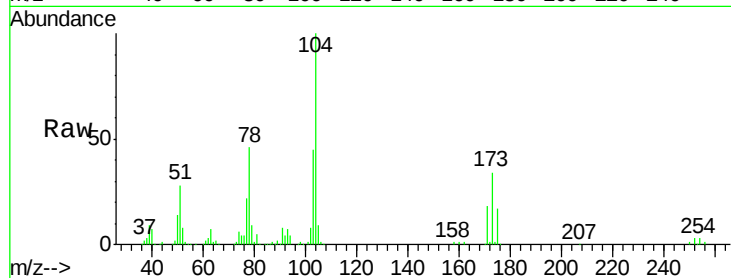
254 8.6 6.2 9.4

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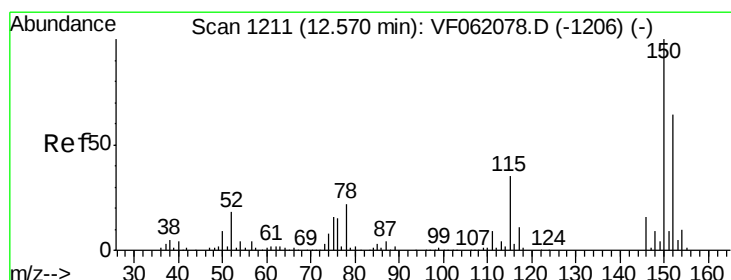
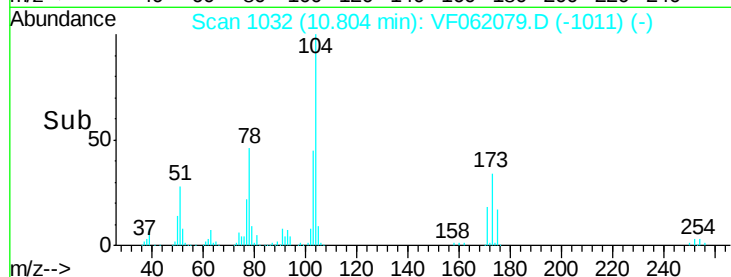
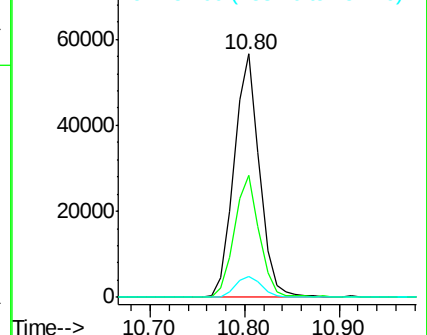
3/27/2019 11:57:12 AM



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: VF062079.D

Acq: 22 Mar 2019 12:53

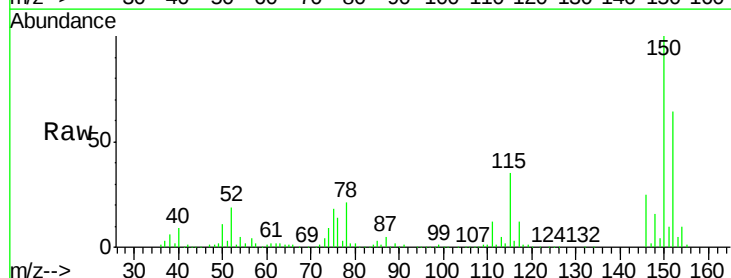
Tgt Ion:152 Resp: 196489

Ion Ratio Lower Upper

152 100

115 54.9 27.7 83.1

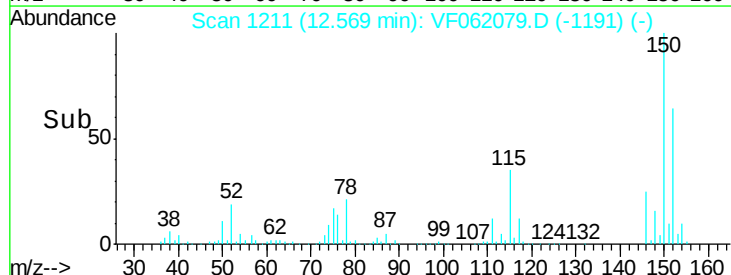
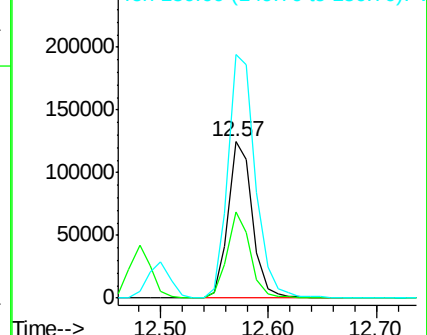
150 155.7 0.0 313.2

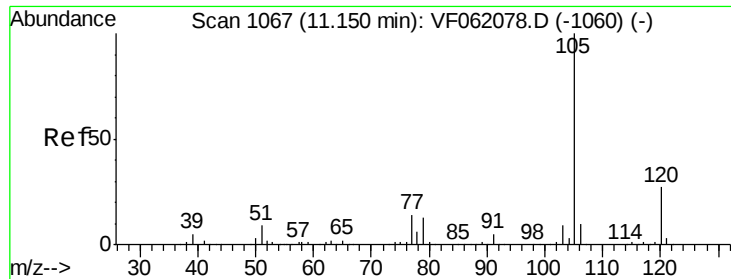


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 69.753 ug/l

RT: 11.15 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 105 Resp: 964418

Ion Ratio Lower Upper

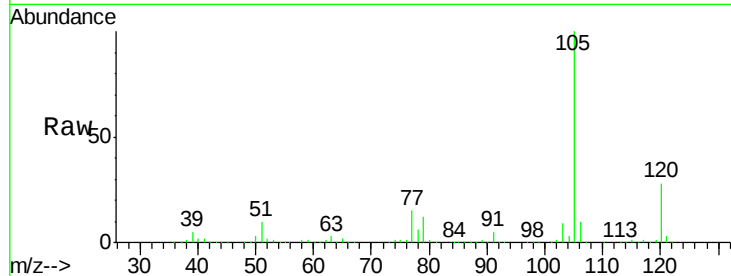
105 100

120 28.2 13.8 41.3

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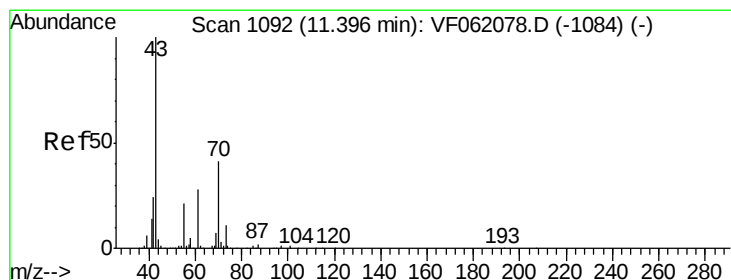
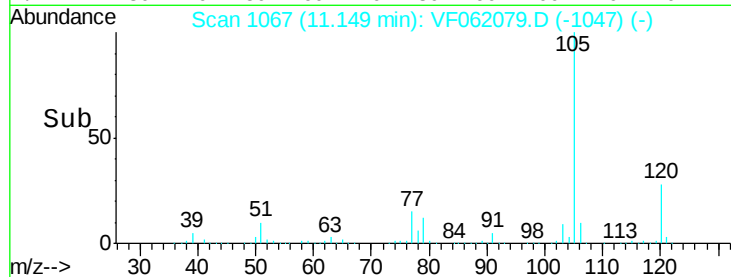
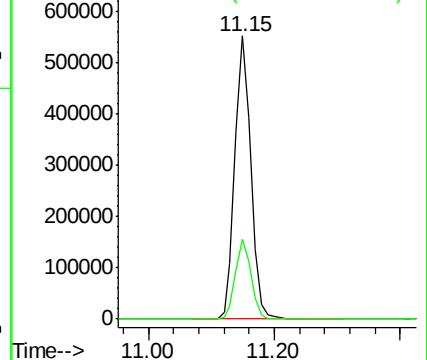
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3/27/2019 11:57:12 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 73.754 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion: 43 Resp: 242980

Ion Ratio Lower Upper

43 100

70 40.7 32.9 49.3

55 21.5 17.1 25.7

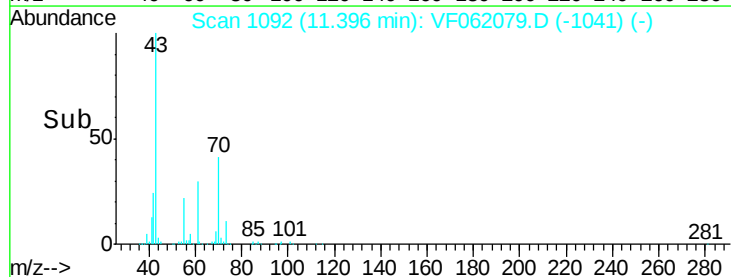
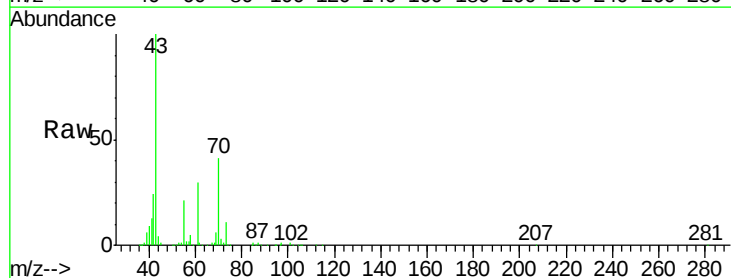
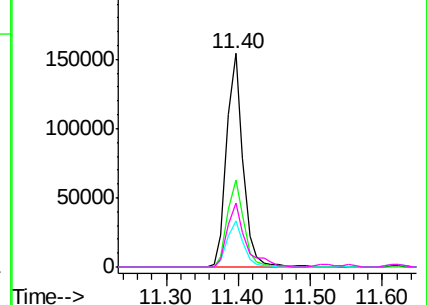
61 30.0 22.2 33.2

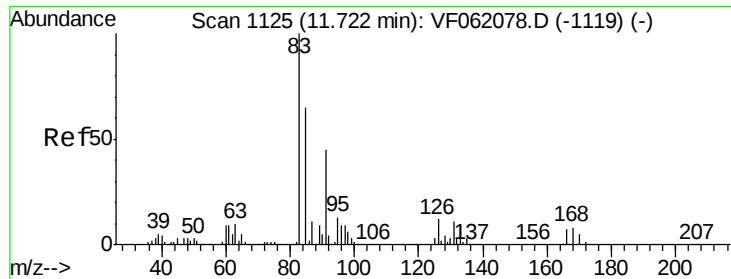
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 70.519 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

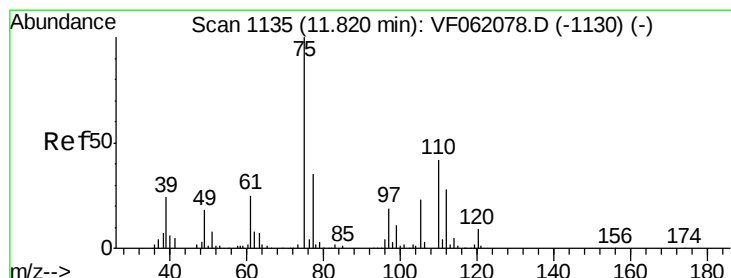
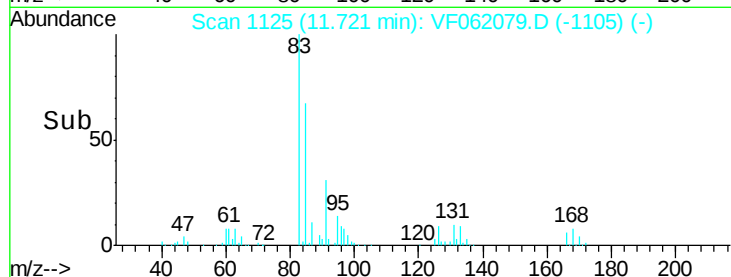
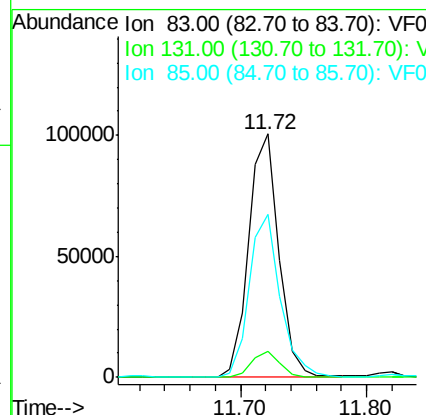
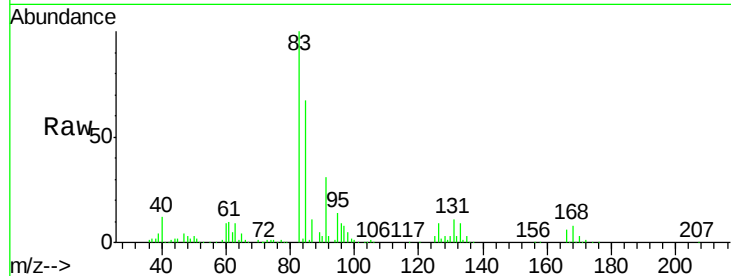
ClientSampleId :

VSTDIC075

Tot Ion:	83	Resp:	167411
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.3	15.8
85	66.8	32.6	98.0

Manual Integrations
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3/27/2019 11:57:12 AM



#76

1,2,3-Trichloropropane

Concen: 70.263 ug/l

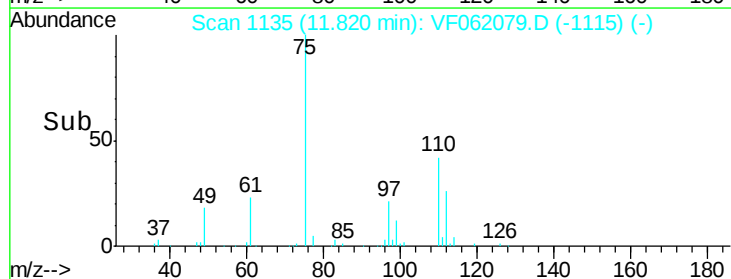
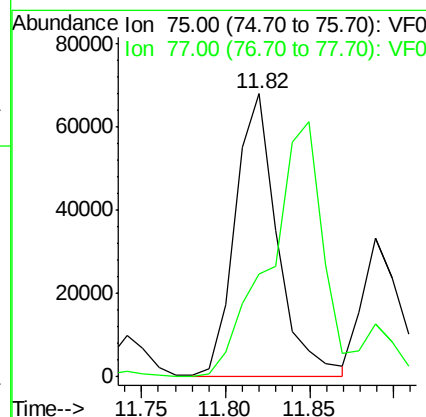
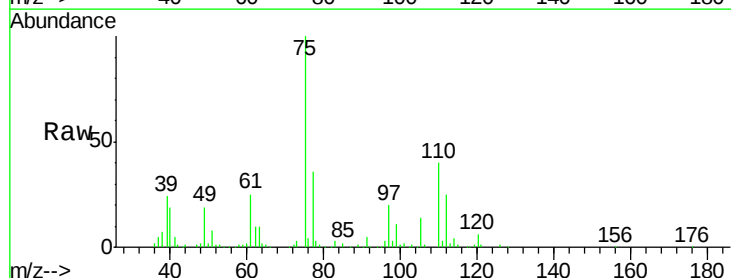
RT: 11.82 min Scan# 1135

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion:	75	Resp:	117390
Ion Ratio	Lower	Upper	
75	100		
77	36.3	17.8	53.3





#77

Bromobenzene

Concen: 69.329 ug/l

RT: 11.52 min Scan# 1105

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:156 Resp: 234189

Ion Ratio Lower Upper

156 100

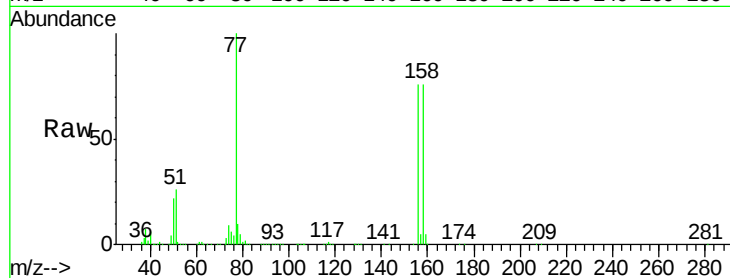
77 132.4 61.3 183.9

158 100.0 48.6 145.9

Manual Integrations
APPROVED

MMDadoda

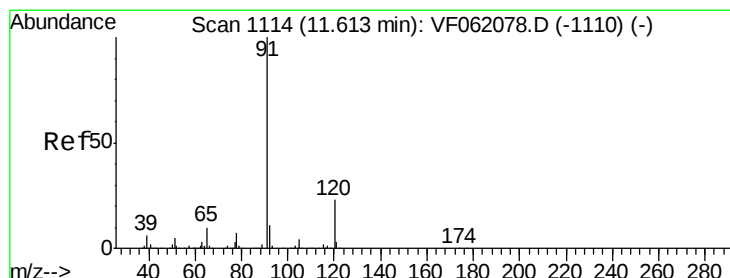
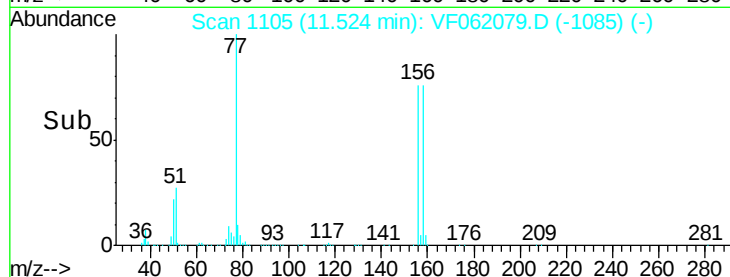
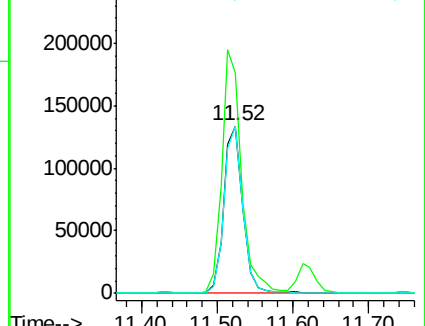
3/27/2019 11:57:12 AM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 67.981 ug/l

RT: 11.62 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VF062079.D

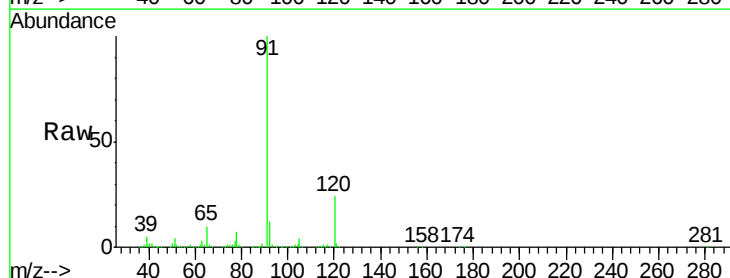
Acq: 22 Mar 2019 12:53

Tgt Ion: 91 Resp: 1091422

Ion Ratio Lower Upper

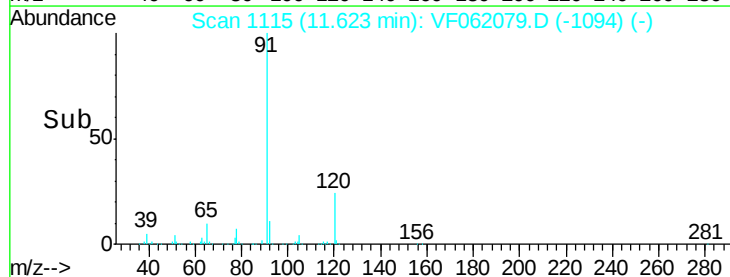
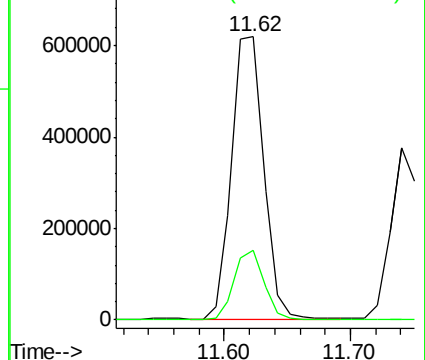
91 100

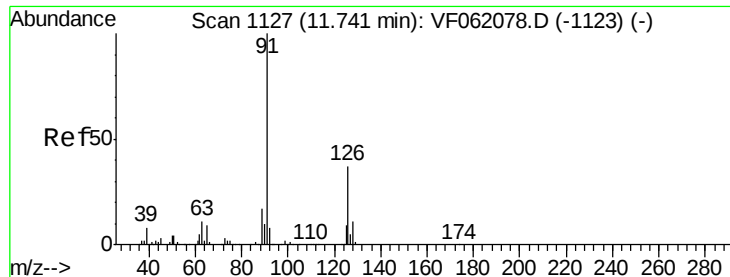
120 24.4 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 67.324 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 91 Resp: 600774

Ion Ratio Lower Upper

91 100

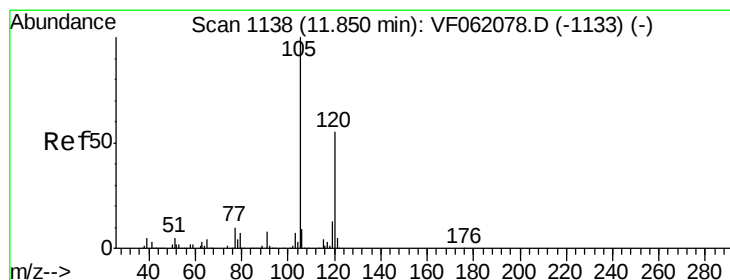
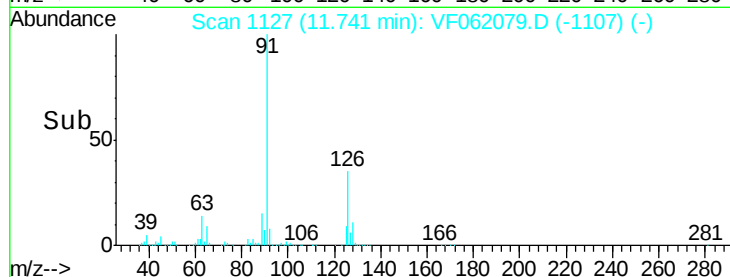
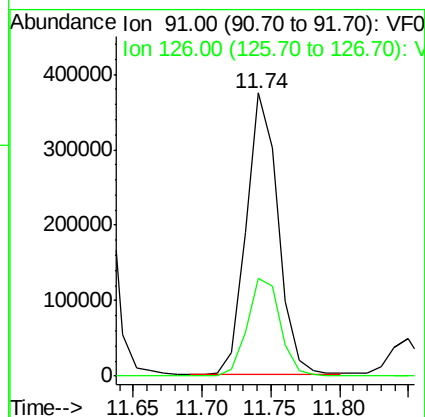
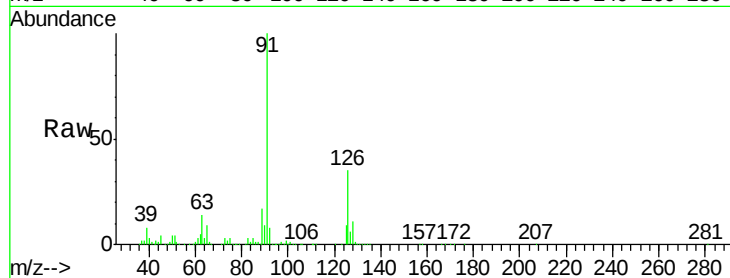
126 34.7 18.3 54.8

Manual Integrations

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MMDadoda

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#80

1,3,5-Trimethylbenzene

Concen: 68.884 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VF062079.D

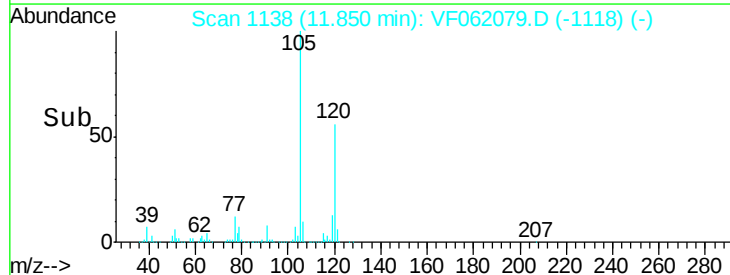
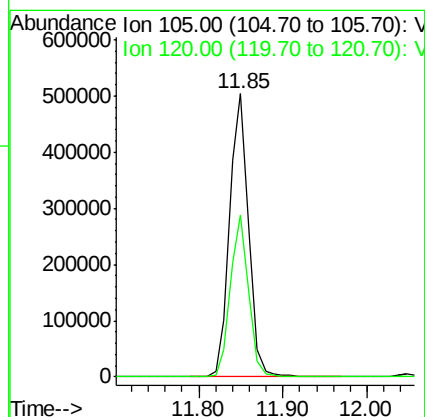
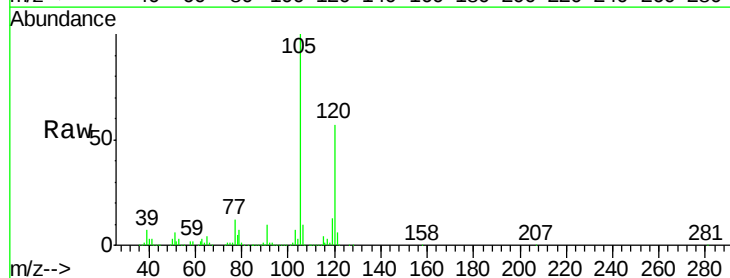
Acq: 22 Mar 2019 12:53

Tgt Ion:105 Resp: 783390

Ion Ratio Lower Upper

105 100

120 56.9 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 54.195 ug/l m

RT: 11.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion: 75 Resp: 48834

Ion Ratio Lower Upper

75 100

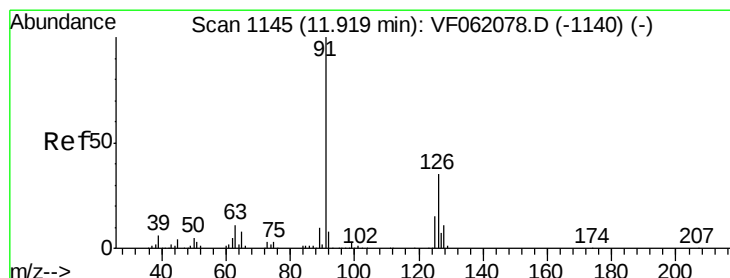
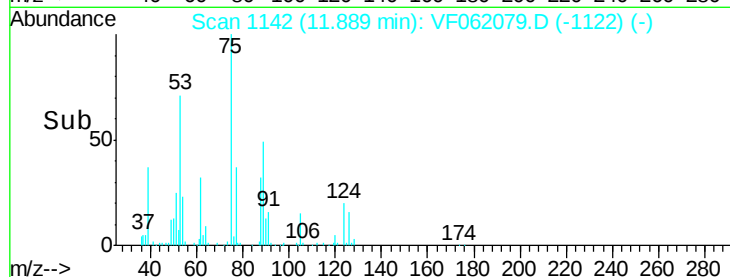
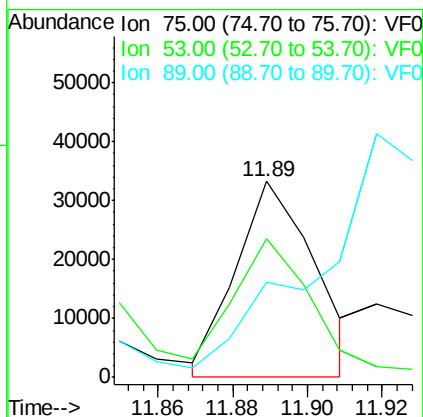
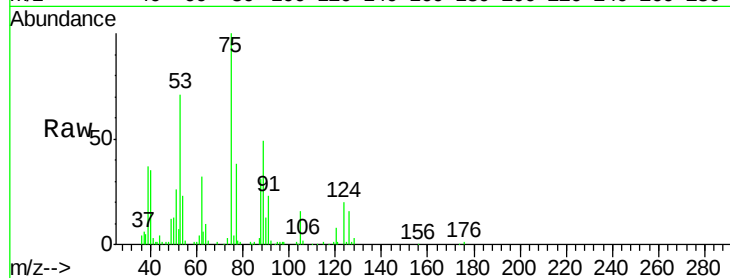
53 71.0 49.4 74.0

89 48.8 40.6 60.8

Manual Integrations
APPROVED

MMDadoda

3/27/2019 11:57:12 AM



#82

4-Chlorotoluene

Concen: 69.895 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF062079.D

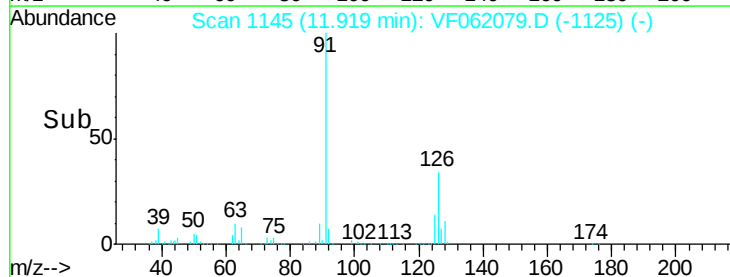
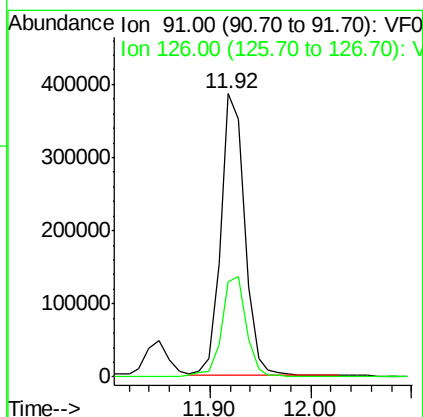
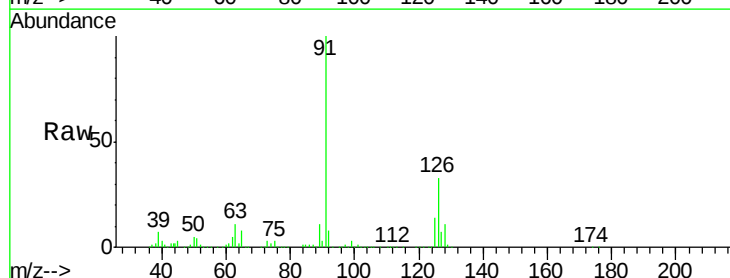
Acq: 22 Mar 2019 12:53

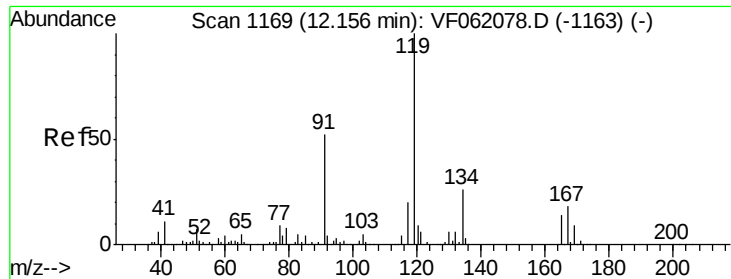
Tgt Ion: 91 Resp: 639509

Ion Ratio Lower Upper

91 100

126 33.5 17.2 51.6





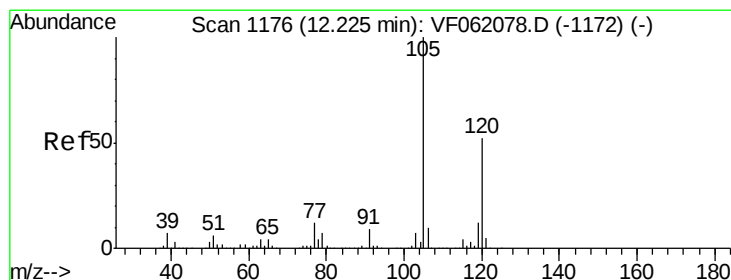
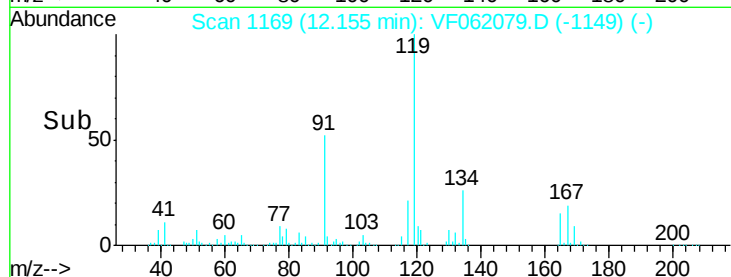
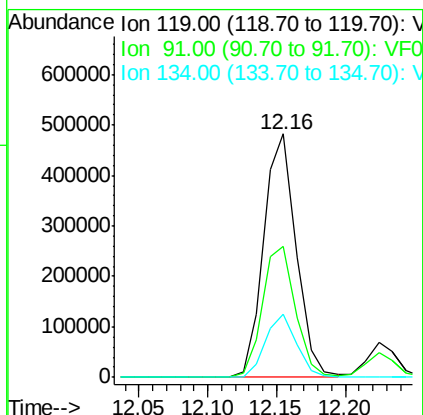
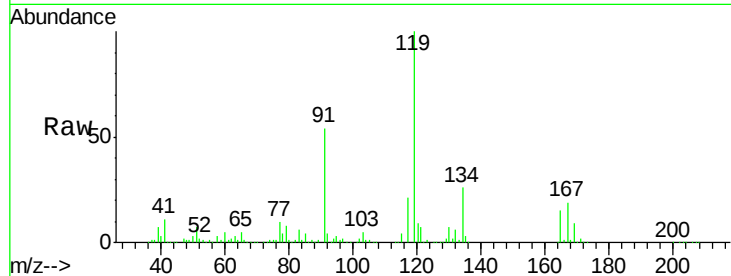
#83
tert-Butylbenzene
Concen: 66.394 ug/l
RT: 12.16 min Scan# 1169
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
119	100		
91	53.8	26.1	78.2
134	26.0	12.8	38.4

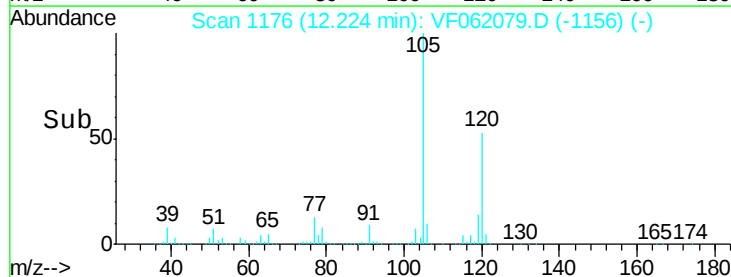
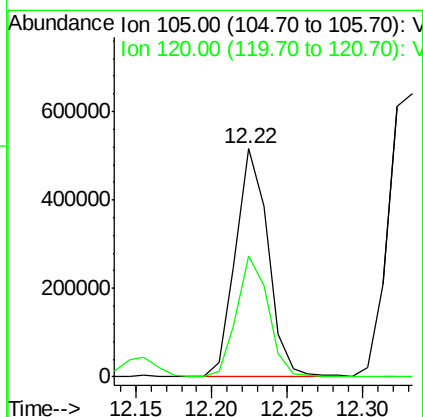
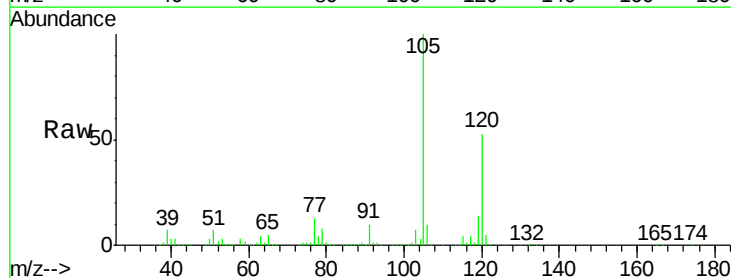
Manual Integrations
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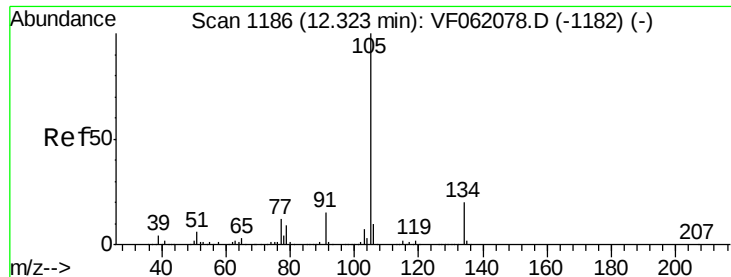
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#84
1,2,4-Trimethylbenzene
Concen: 69.441 ug/l
RT: 12.22 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.8	26.1	78.2





#85

sec-Butylbenzene

Concen: 68.174 ug/l

RT: 12.33 min Scan# 1187

Delta R.T. 0.01 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC075

Tot Ion:105 Resp: 1049952

Ion Ratio Lower Upper

105 100

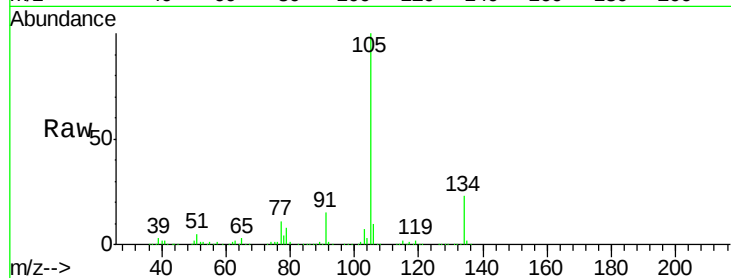
134 22.6 10.2 30.4

Manual Integrations

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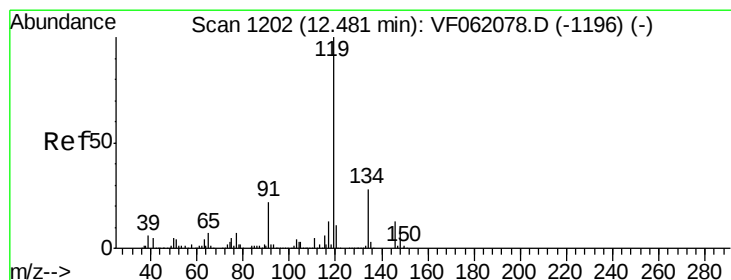
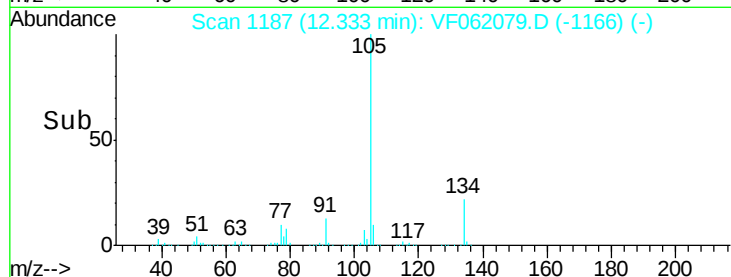
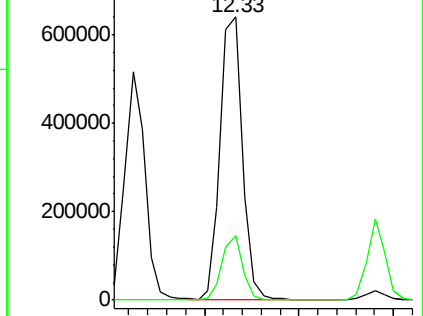
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 68.639 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

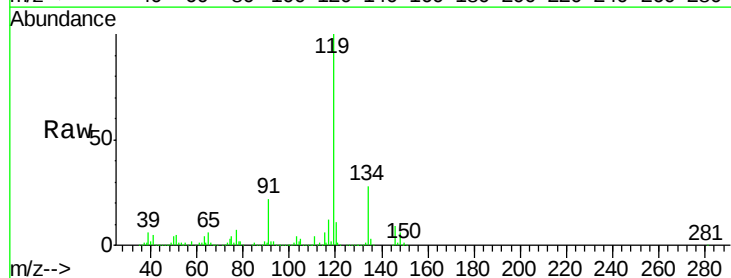
Tgt Ion:119 Resp: 915860

Ion Ratio Lower Upper

119 100

134 28.1 14.0 42.0

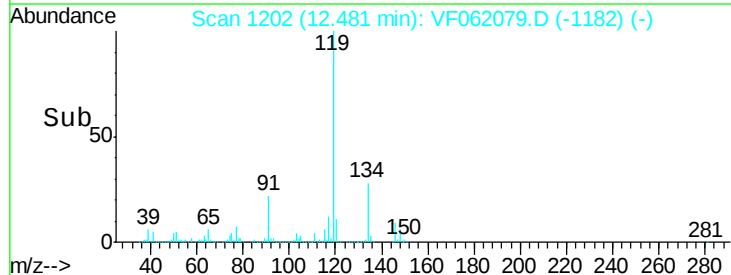
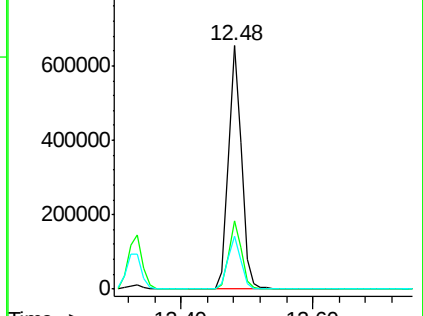
91 21.8 10.8 32.4

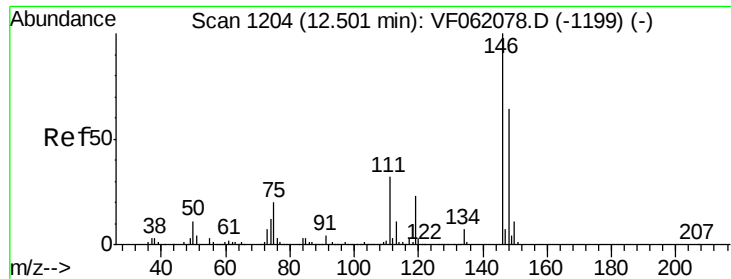


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





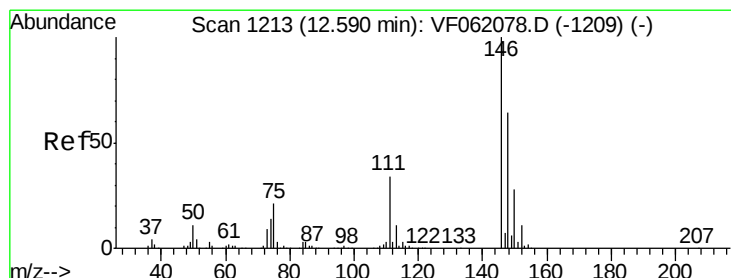
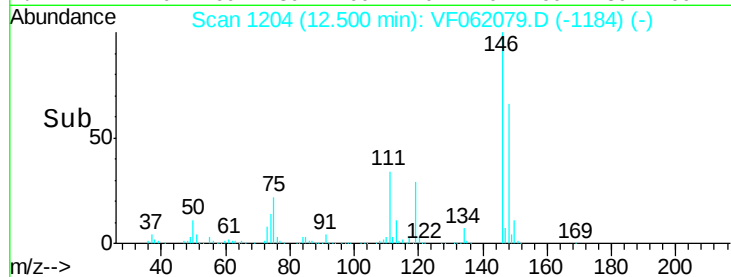
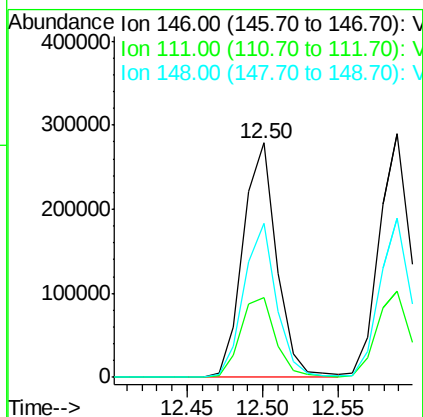
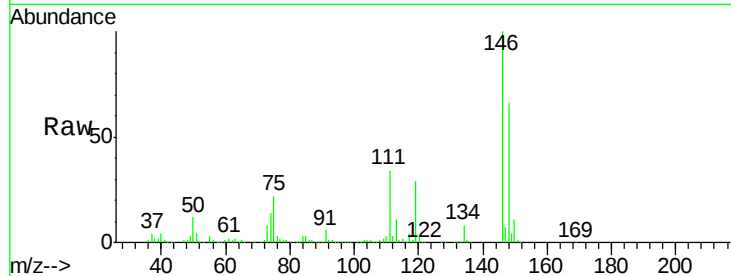
#87
 1,3-Dichlorobenzene
 Concen: 68.965 ug/l
 RT: 12.50 min Scan# 1204
 Delta R.T. -0.00 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
146	100	432812		
111	34.0	16.1	48.3	
148	65.8	31.9	95.7	

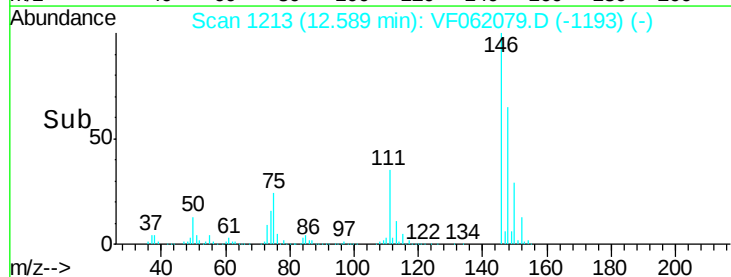
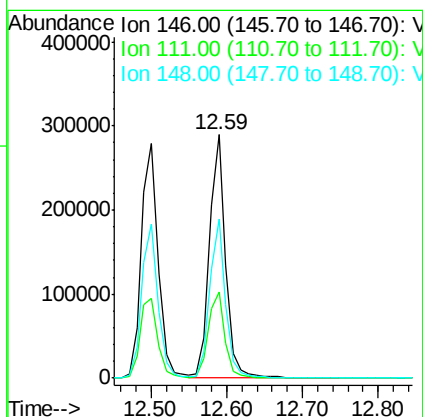
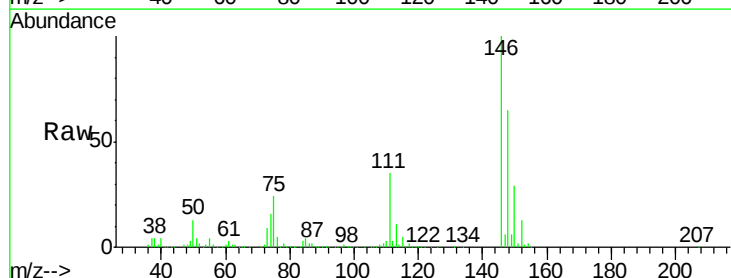
Manual Integrations
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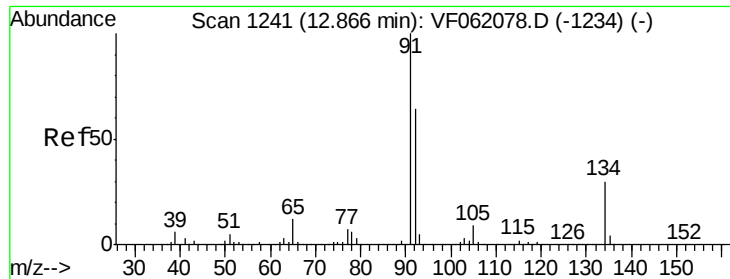
MMDadoda
 3/27/2019 11:57:12 AM



#88
 1,4-Dichlorobenzene
 Concen: 70.957 ug/l
 RT: 12.59 min Scan# 1213
 Delta R.T. -0.00 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	434535		
111	35.4	16.9	50.6	
148	65.4	31.9	95.7	





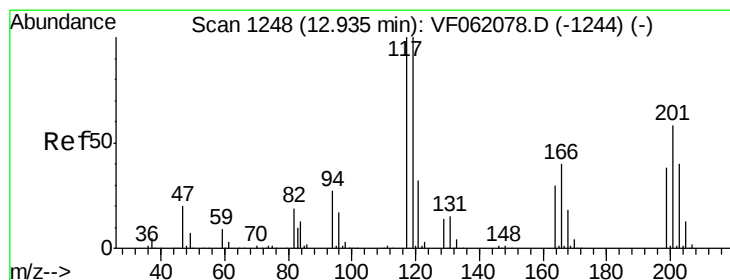
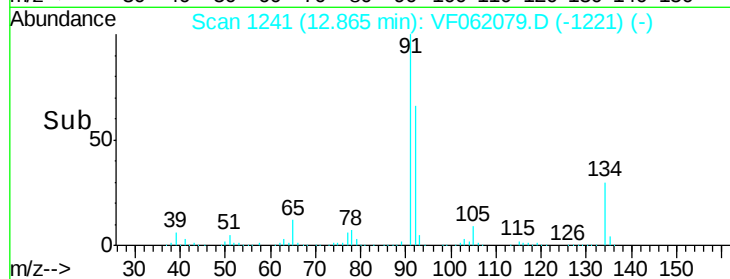
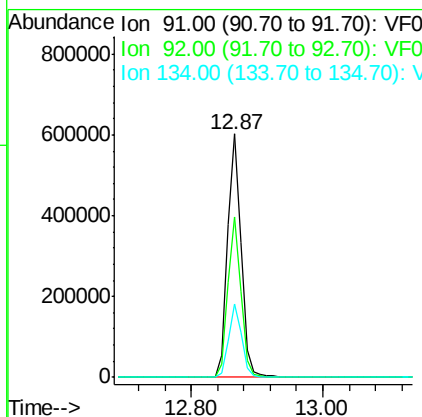
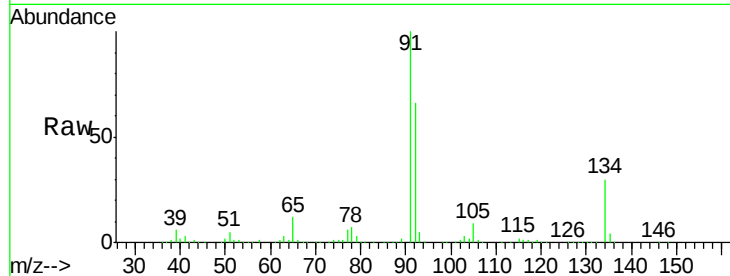
#89
n-Butylbenzene
Concen: 68.326 ug/l
RT: 12.87 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC075

Tot Ion	Ratio	Lower	Upper
91	100		
92	66.1	31.9	95.5
134	30.2	14.9	44.9

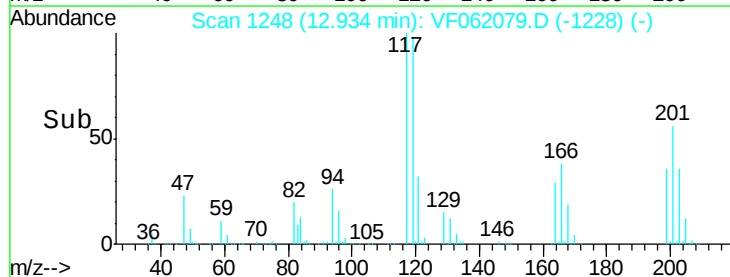
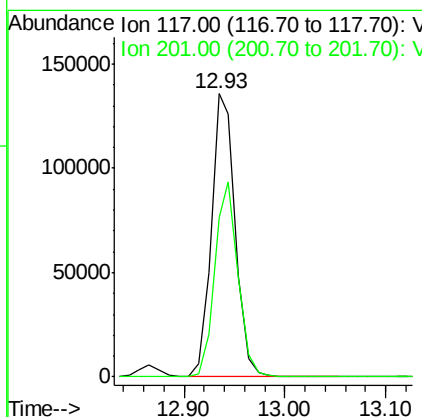
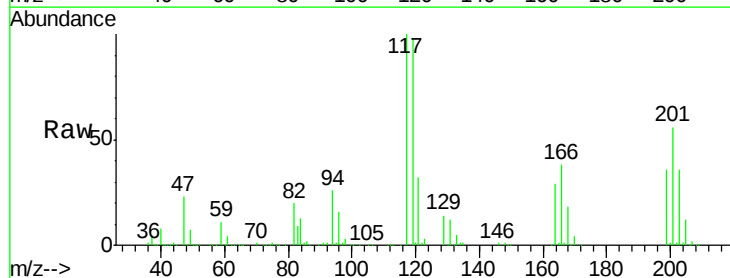
Manual Integrations
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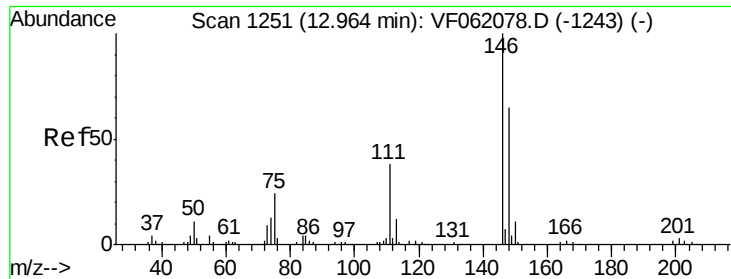
MMDadoda
3/27/2019 11:57:12 AM



#90
Hexachloroethane
Concen: 70.429 ug/l
RT: 12.93 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VF062079.D
Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Lower	Upper
117	100		
201	56.3	28.7	86.1





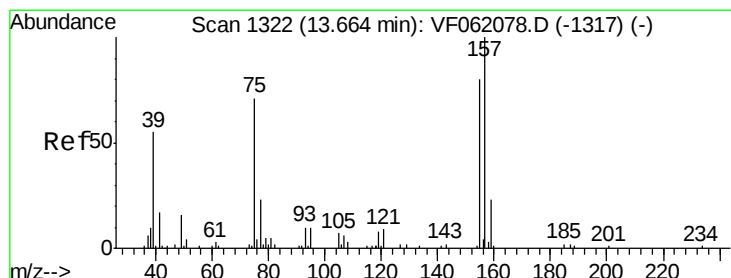
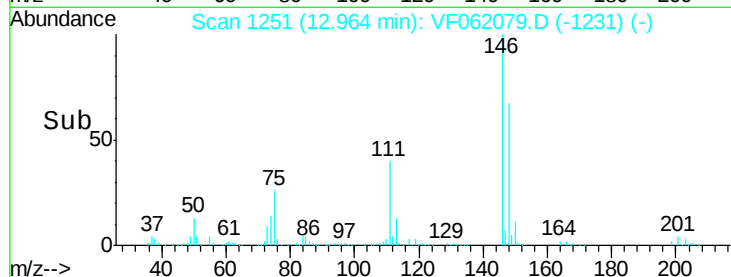
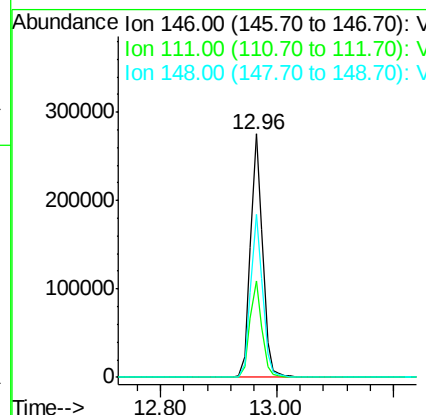
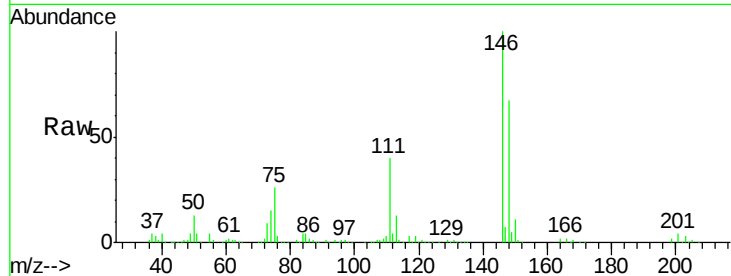
#91
 1,2-Dichlorobenzene
 Concen: 67.538 ug/l
 RT: 12.96 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
146	100	397997		
111	39.8	19.1	57.3	
148	66.8	32.8	98.3	

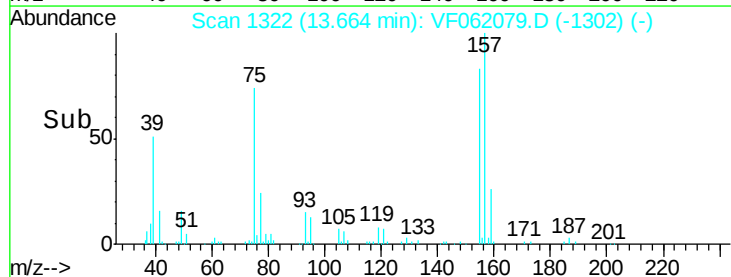
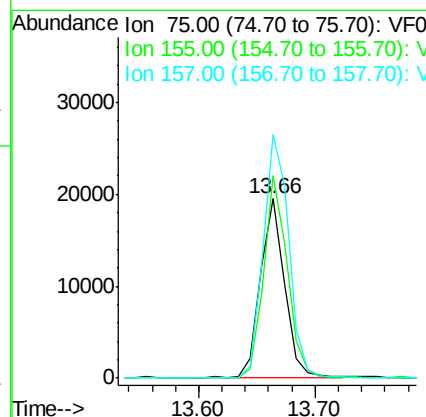
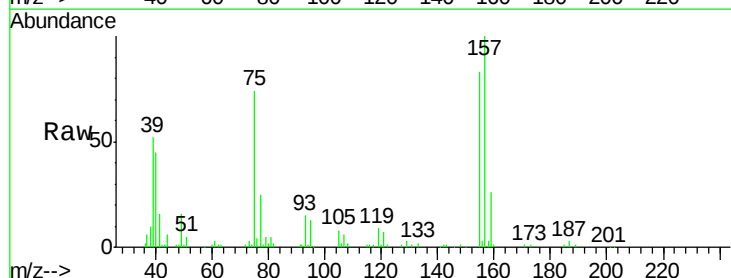
Manual Integrations
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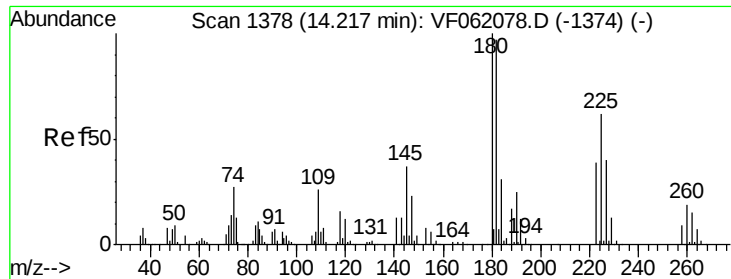
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 78.523 ug/l
 RT: 13.66 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	28245		
155	112.6	56.1	168.4	
157	135.6	70.4	211.2	





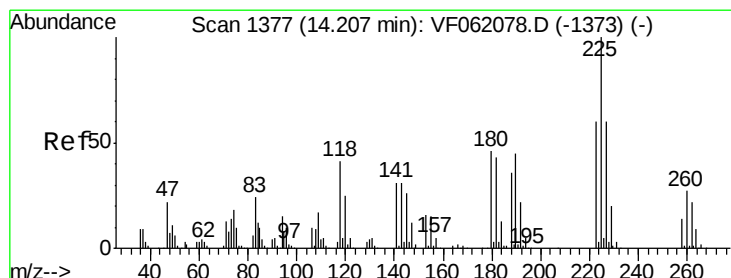
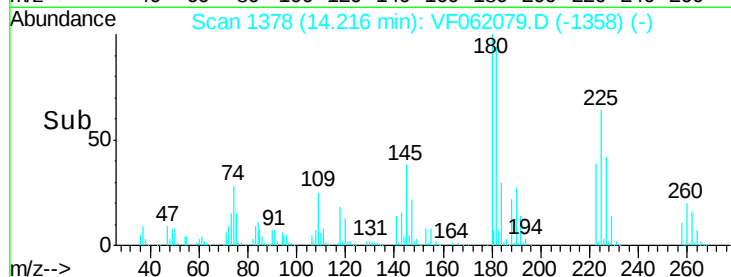
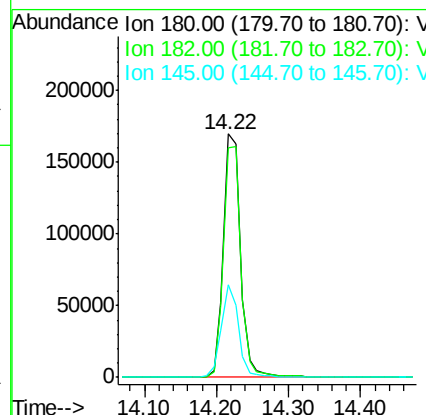
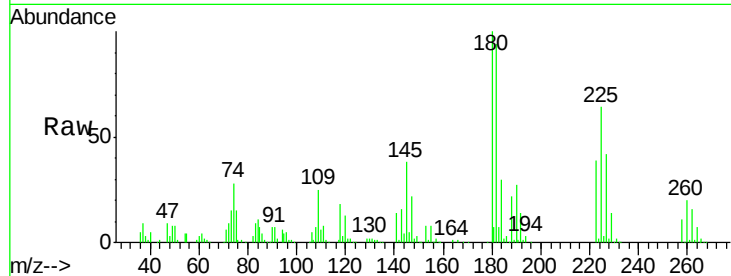
#93
 1,2,4-Trichlorobenzene
 Concen: 68.033 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. -0.00 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC075

Tot Ion	Ratio	Resp	Lower	Upper
180	100	279416		
182	94.3	48.7	146.1	
145	38.0	18.3	54.8	

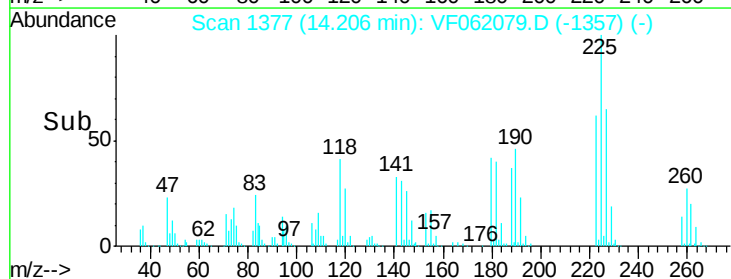
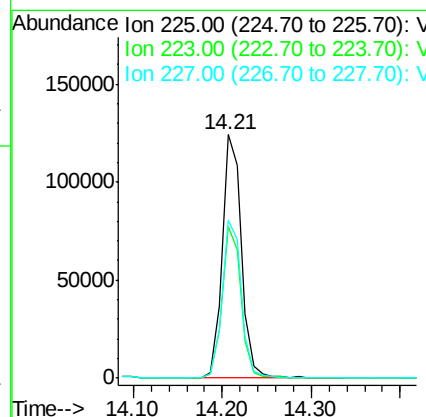
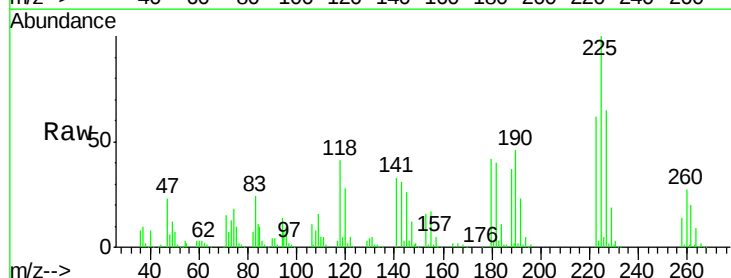
Manual Integrations
 APPROVED

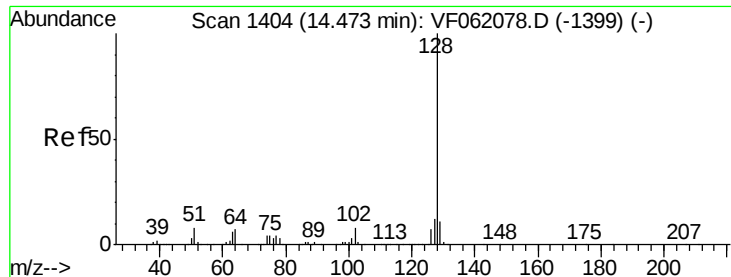
MMDadoda
 3/27/2019 11:57:12 AM



#94
 Hexachlorobutadiene
 Concen: 69.048 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF062079.D
 Acq: 22 Mar 2019 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	188557		
223	62.2	30.0	90.0	
227	64.7	30.2	90.6	





#95

Naphthalene

Concen: 76.092 ug/l

RT: 14.47 min Scan# 1404

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Instrument :

MSVOA_F

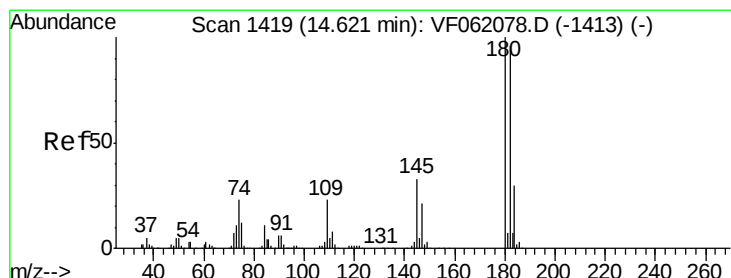
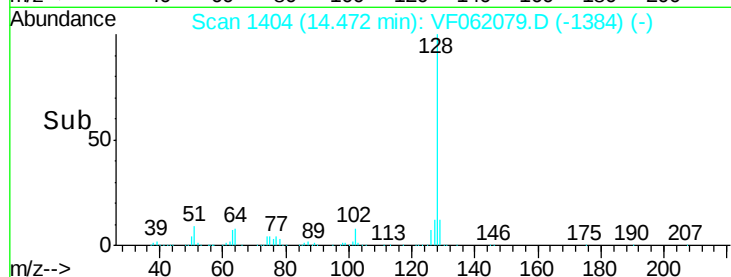
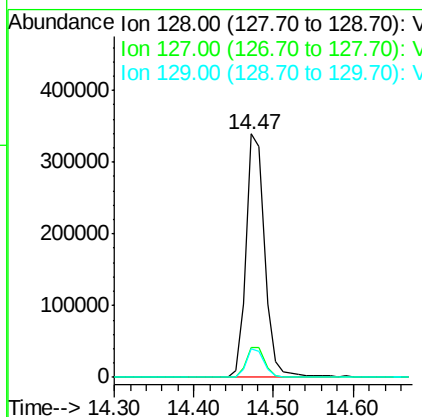
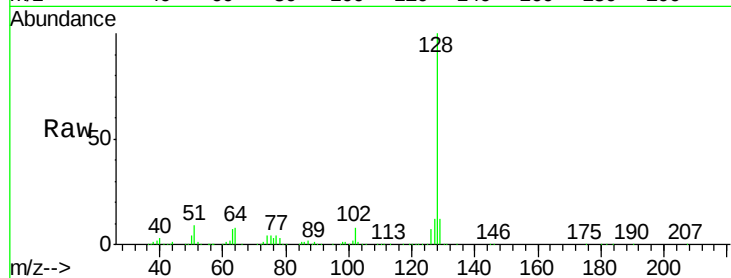
ClientSampleId :

VSTDIC075

Tot Ion:	128	Resp:	547656
Ion Ratio	Lower	Upper	
128	100		
127	12.2	9.5	14.3
129	11.9	8.7	13.1

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 73.934 ug/l

RT: 14.62 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF062079.D

Acq: 22 Mar 2019 12:53

Tgt Ion:	180	Resp:	284235
Ion Ratio	Lower	Upper	
180	100		
182	94.9	47.9	143.7
145	34.6	16.6	49.7

