

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041719\
 Data File : VF062192.D
 Acq On : 17 Apr 2019 18:09
 Operator : FY/SY
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 10:53:15 AM

Quant Time: Apr 18 07:04:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 06:46:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	444908	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	619120	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.89	117	485931	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.60	152	260714	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.01	65	76412	12.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	25.78%	
35) Dibromofluoromethane	4.28	113	110449	26.01	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	52.02%	
50) Toluene-d8	7.70	98	269635	17.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	34.84%	
62) 4-Bromofluorobenzene	11.48	95	104512	19.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.04%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.00	85	136296	25.543	ug/l	95
3) Chloromethane	1.14	50	135882	21.131	ug/l	98
4) Vinyl Chloride	1.18	62	117904	19.277	ug/l	95
5) Bromomethane	1.40	94	59508	14.786	ug/l	89
6) Chloroethane	1.44	64	45825	13.273	ug/l	92
7) Trichlorofluoromethane	1.55	101	143695m	19.779	ug/l	
8) Diethyl Ether	1.70	74	30668	10.120	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	1.91	101	102297	21.720	ug/l	98
10) Methyl Iodide	1.98	142	178703	32.820	ug/l #	90
11) Tert butyl alcohol	2.69	59	27294	23.121	ug/l	96
12) 1,1-Dichloroethene	1.87	96	100276	20.769	ug/l	94
13) Acrolein	2.09	56	18028	18.322	ug/l #	72
14) Allyl chloride	2.18	41	114492	11.929	ug/l	94
15) Acrylonitrile	3.07	53	96147	30.916	ug/l	99
16) Acetone	2.34	43	91018	31.543	ug/l	98
17) Carbon Disulfide	1.91	76	269976m	18.072	ug/l	
18) Methyl Acetate	2.45	43	50347	6.943	ug/l	96
19) Methyl tert-butyl Ether	2.54	73	176656	11.235	ug/l	99
20) Methylene Chloride	2.33	84	108812m	19.621	ug/l	
21) trans-1,2-Dichloroethene	2.41	96	94490	18.474	ug/l	98
22) Diisopropyl ether	2.92	45	293500	15.163	ug/l	98
23) Vinyl Acetate	3.33	43	689437	42.969	ug/l	98
24) 1,1-Dichloroethane	3.00	63	162052	16.518	ug/l	99
25) 2-Butanone	4.51	43	185166	39.696	ug/l	97
26) 2,2-Dichloropropane	3.75	77	81645	11.624	ug/l	97
27) cis-1,2-Dichloroethene	3.63	96	122879	20.658	ug/l	98
28) Bromochloromethane	3.89	49	84620	18.448	ug/l #	93
29) Tetrahydrofuran	4.25	42	82919	27.005	ug/l	97
30) Chloroform	4.03	83	194804	21.034	ug/l	96
31) Cyclohexane	3.86	56	185119	18.608	ug/l	95
32) 1,1,1-Trichloroethane	4.27	97	148969	20.547	ug/l #	81
36) 1,1-Dichloropropene	4.45	75	151748	22.862	ug/l	98
37) Ethyl Acetate	4.29	43	68837	9.272	ug/l #	96
38) Carbon Tetrachloride	4.17	117	135967	24.516	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.62	83	176399	22.008	ug/l	99
40) Benzene	4.81	78	394501	20.725	ug/l	99
41) Methacrylonitrile	4.93	41	39651	9.236	ug/l #	68
42) 1,2-Dichloroethane	5.11	62	104817	16.175	ug/l	100
43) Isopropyl Acetate	7.10	43	67093	5.736	ug/l	97
44) Trichloroethene	5.66	130	105677	22.130	ug/l	97
45) 1,2-Dichloropropane	6.39	63	83623	16.429	ug/l	96
46) Dibromomethane	6.25	93	57360	18.801	ug/l	98
47) Bromodichloromethane	6.54	83	131533	21.721	ug/l	99
48) Methyl methacrylate	6.86	41	47304	8.061	ug/l	96
49) 1,4-Dioxane	6.86	88	10413	95.730	ug/l	89
51) 4-Methyl-2-Pentanone	8.39	43	268994	35.794	ug/l	100
52) Toluene	7.76	92	203274	18.078	ug/l	99
53) t-1,3-Dichloropropene	8.40	75	97772	15.007	ug/l	96
54) cis-1,3-Dichloropropene	7.44	75	130361	17.365	ug/l	98
55) 1,1,2-Trichloroethane	8.62	97	57081	13.470	ug/l	96
56) Ethyl methacrylate	8.74	69	59705	8.251	ug/l	96
57) 1,3-Dichloropropane	8.98	76	91040	12.191	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.44	63	95284	25.218	ug/l	98
59) 2-Hexanone	9.61	43	167718	29.252	ug/l	97
60) Dibromochloromethane	8.84	129	83227	19.429	ug/l	99
61) 1,2-Dibromoethane	9.11	107	63859	14.484	ug/l	99
64) Tetrachloroethene	8.29	164	84716	22.088	ug/l	98
65) Chlorobenzene	9.91	112	204934	19.597	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.05	131	95477	24.901	ug/l	94
67) Ethyl Benzene	10.01	91	379869	20.175	ug/l	96
68) m/p-Xylenes	10.25	106	272253	39.741	ug/l	97
69) o-Xylene	10.80	106	150705	21.940	ug/l	97
70) Styrene	10.88	104	212940	18.710	ug/l	99
71) Bromoform	10.87	173	48151	17.074	ug/l #	99
73) Isopropylbenzene	11.20	105	453388	22.278	ug/l	97
74) N-amyl acetate	11.44	43	114353	11.025	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.76	83	74030	11.003	ug/l	97
76) 1,2,3-Trichloropropane	11.85	75	51002	8.773	ug/l #	64
77) Bromobenzene	11.57	156	96858	19.361	ug/l	97
78) n-propylbenzene	11.66	91	473667	20.784	ug/l	98
79) 2-Chlorotoluene	11.79	91	290975	20.998	ug/l	100
80) 1,3,5-Trimethylbenzene	11.88	105	378412	22.249	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.93	75	27452m	12.065	ug/l	
82) 4-Chlorotoluene	11.96	91	275894	17.707	ug/l	100
83) tert-Butylbenzene	12.19	119	394162	23.732	ug/l	99
84) 1,2,4-Trimethylbenzene	12.26	105	367581	21.487	ug/l	97
85) sec-Butylbenzene	12.36	105	509011	25.298	ug/l	98
86) p-Isopropyltoluene	12.51	119	446354	24.590	ug/l	97
87) 1,3-Dichlorobenzene	12.53	146	180524	20.569	ug/l	100
88) 1,4-Dichlorobenzene	12.61	146	168088	18.934	ug/l	97
89) n-Butylbenzene	12.89	91	428372	25.703	ug/l	96
90) Hexachloroethane	12.96	117	111028	33.359	ug/l	99
91) 1,2-Dichlorobenzene	12.99	146	173721	20.064	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.68	75	14299	9.445	ug/l	99

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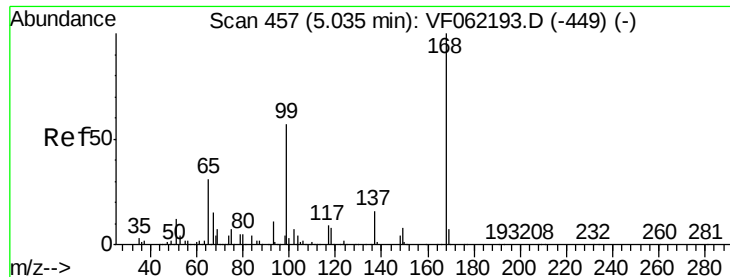
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.23	180	146293	22.870	ug/l	98
94) Hexachlorobutadiene	14.22	225	100379	29.192	ug/l	100
95) Naphthalene	14.49	128	243152	12.915	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	137092	21.585	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 444908

Ion Ratio Lower Upper

168 100

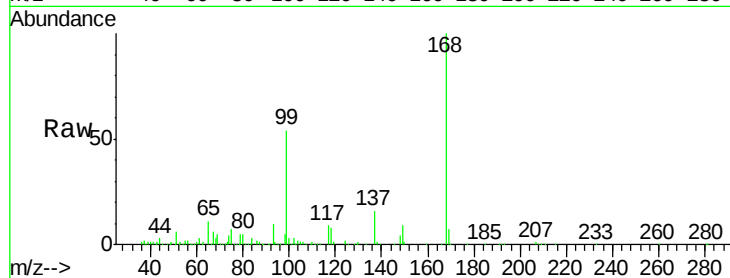
99 53.7 45.5 68.3

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.03

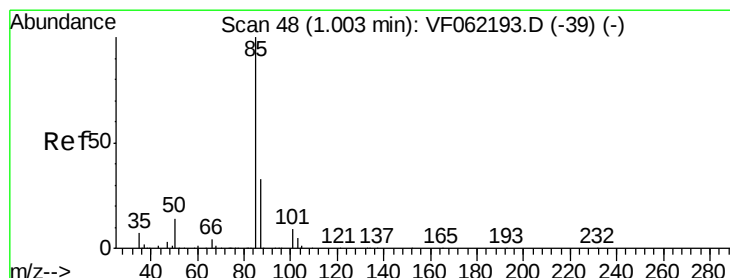
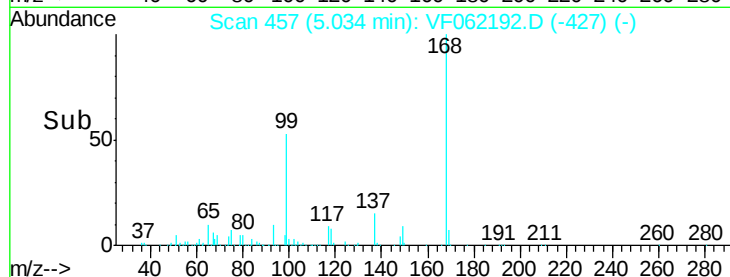
150000

100000

50000

0

Time--> 4.80 5.00 5.20



#2

Dichlorodifluoromethane

Concen: 25.543 ug/l

RT: 1.00 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062192.D

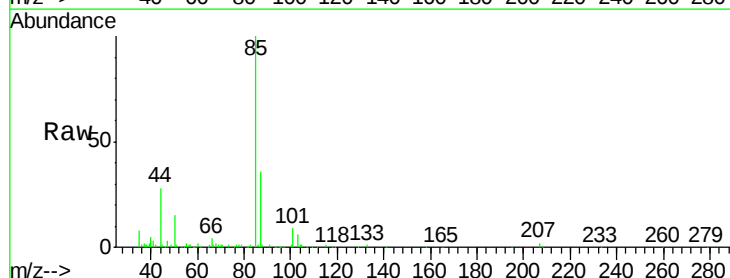
Acq: 17 Apr 2019 18:09

Tgt Ion: 85 Resp: 136296

Ion Ratio Lower Upper

85 100

87 35.7 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

40000

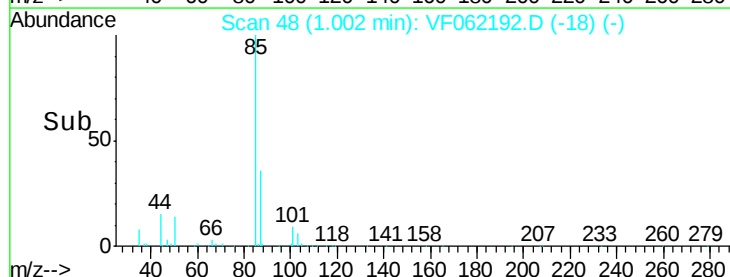
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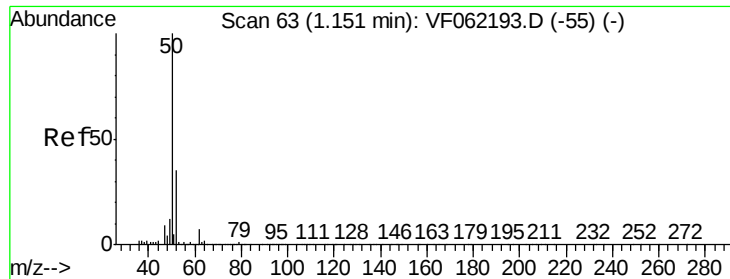
20000

10000

0

Time--> 0.80 1.00 1.20





#3

Chloromethane

Concen: 21.131 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 135882

Ion Ratio Lower Upper

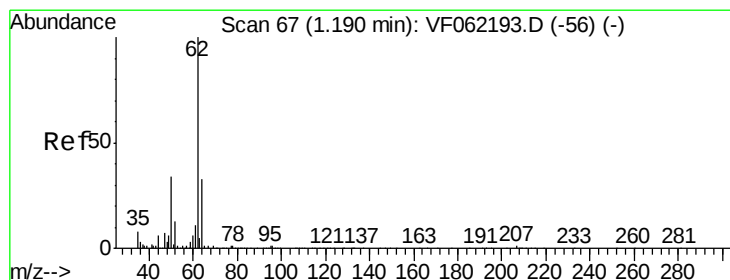
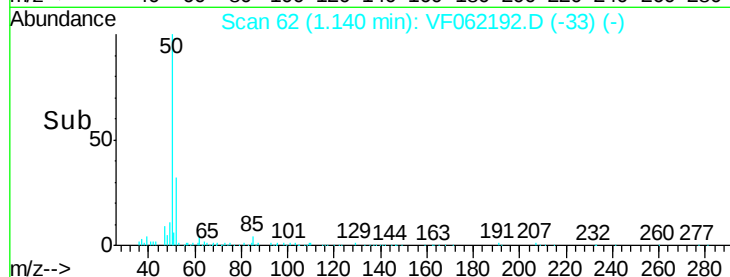
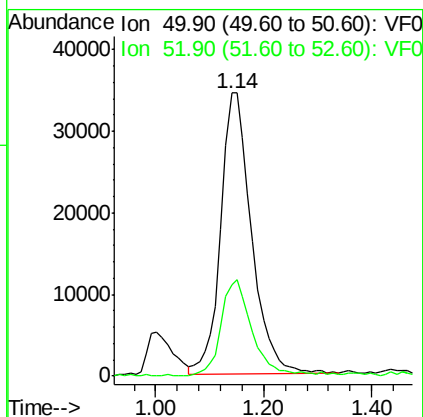
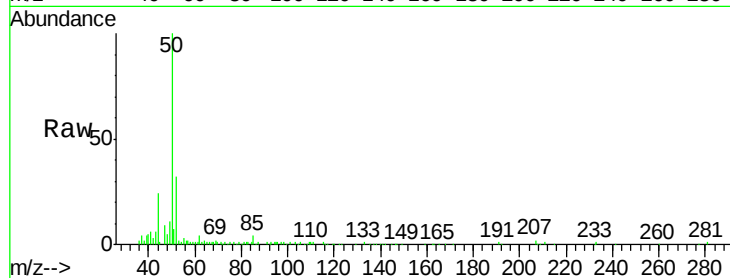
50 100

52 32.7 27.0 40.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 19.277 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062192.D

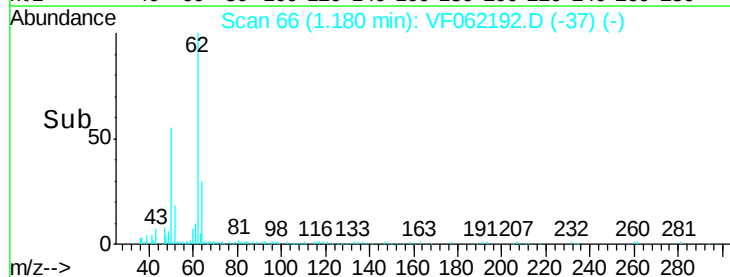
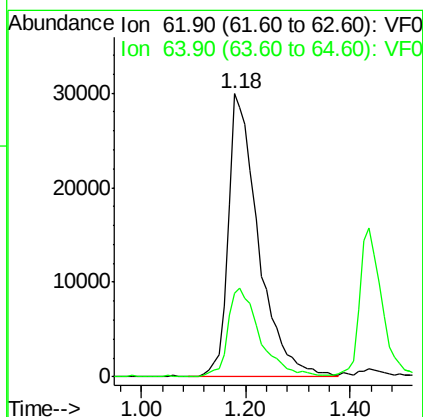
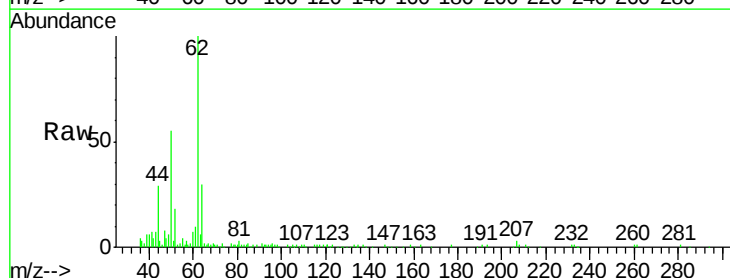
Acq: 17 Apr 2019 18:09

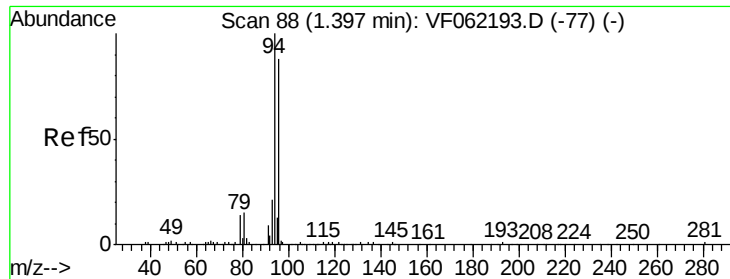
Tgt Ion: 62 Resp: 117904

Ion Ratio Lower Upper

62 100

64 29.8 26.2 39.4





#5

Bromomethane

Concen: 14.786 ug/l

RT: 1.40 min Scan# 88

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 59508

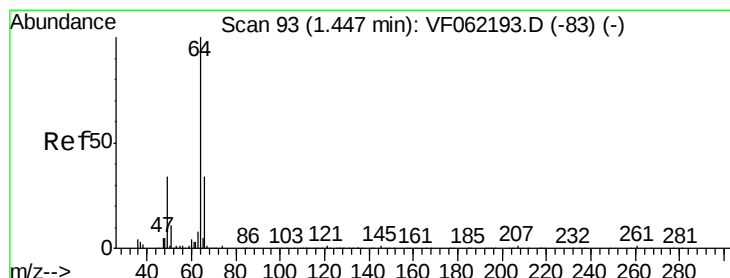
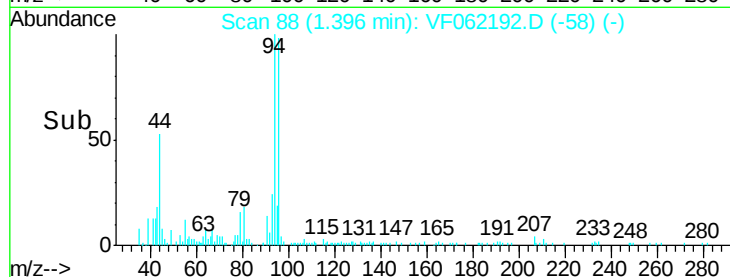
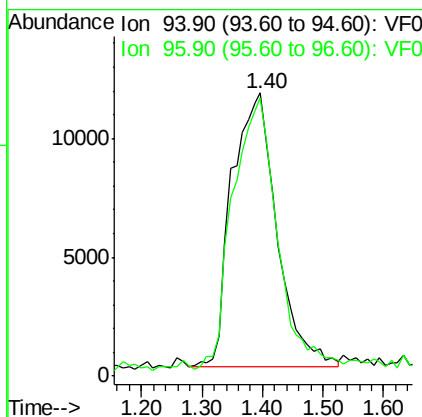
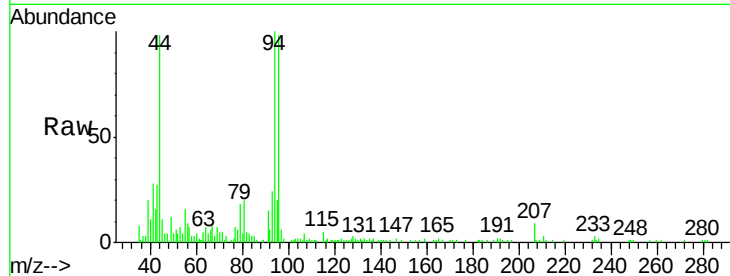
Ion Ratio Lower Upper

94 100

96 98.1 70.2 105.4

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#6

Chloroethane

Concen: 13.273 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062192.D

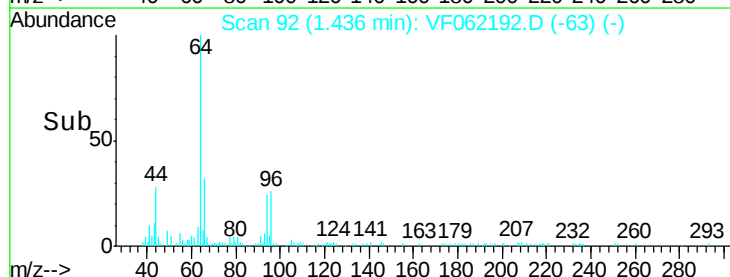
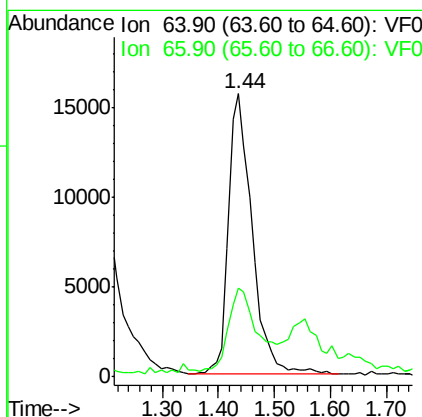
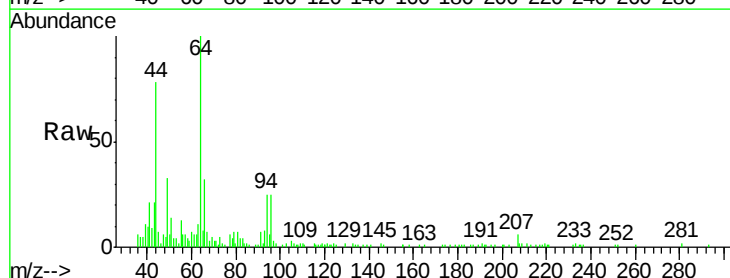
Acq: 17 Apr 2019 18:09

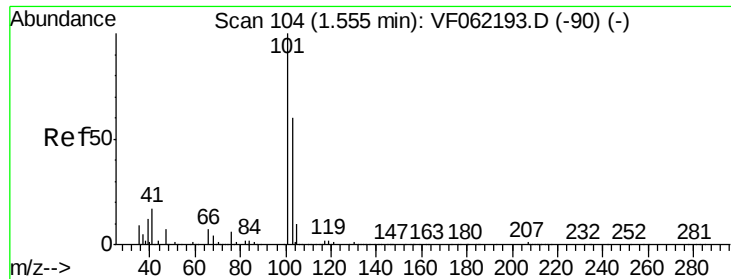
Tgt Ion: 64 Resp: 45825

Ion Ratio Lower Upper

64 100

66 29.4 27.0 40.4





#7

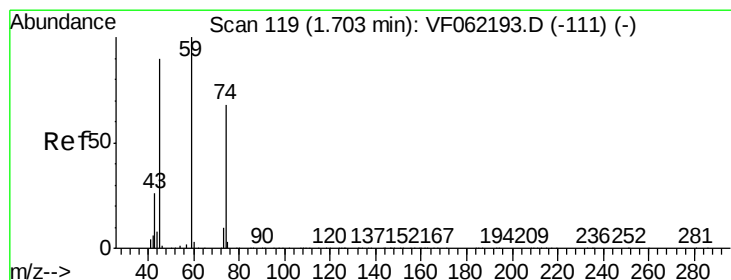
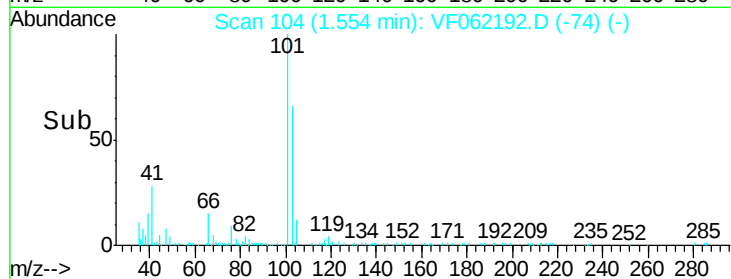
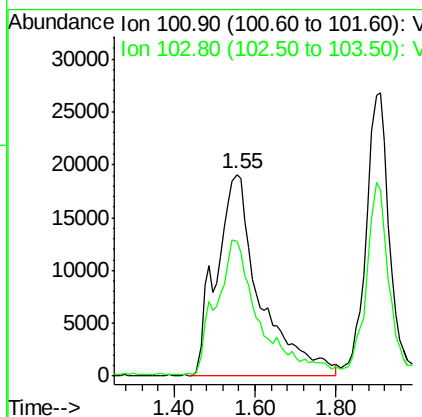
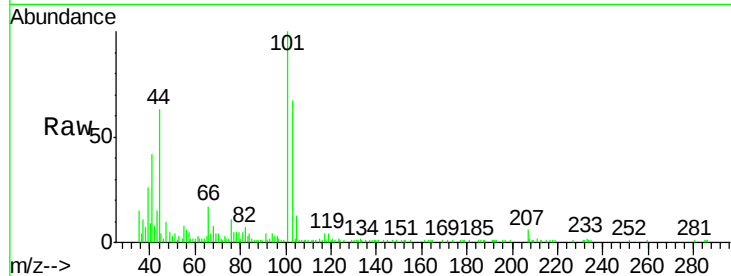
Trichlorofluoromethane
Concen: 19.779 ug/l m
RT: 1.55 min Scan# 104
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

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Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	48.2	72.4

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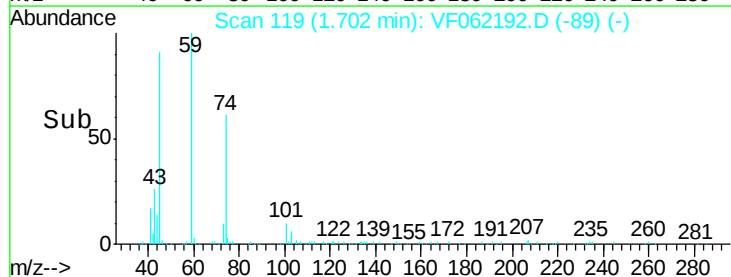
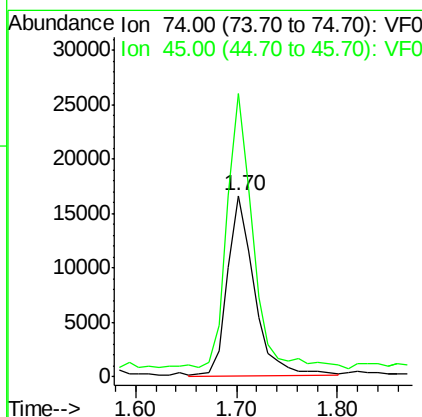
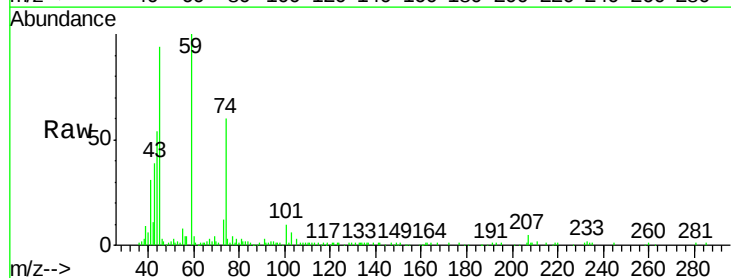
MMDadoda
4/19/2019 10:53:15 AM

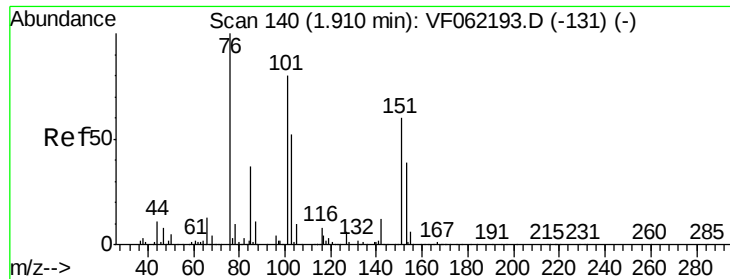


#8

Diethyl Ether
Concen: 10.120 ug/l
RT: 1.70 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	148.5	70.0	210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.720 ug/l

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

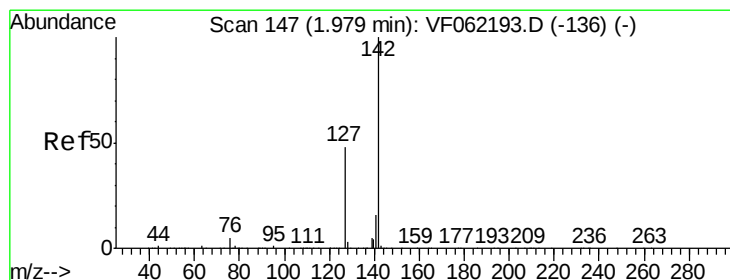
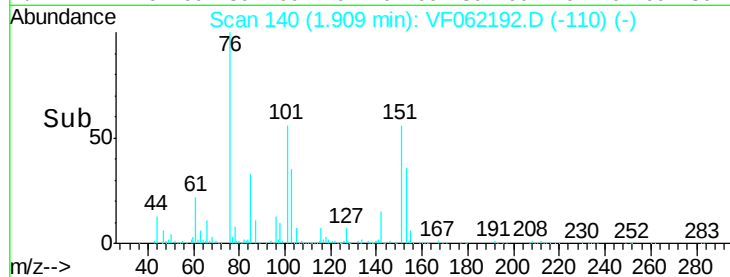
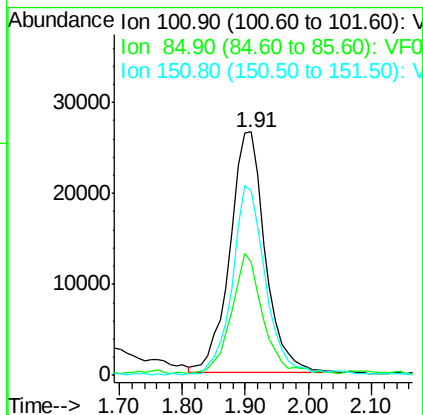
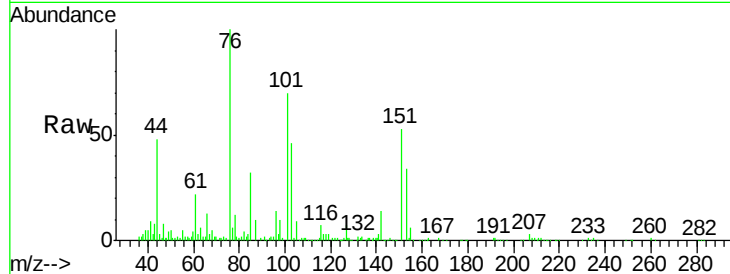
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	102297
Ion Ratio	Lower	Upper	
101	100		
85	44.2	35.3	52.9
151	74.2	57.5	86.3

Manual Integrations
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#10

Methyl Iodide

Concen: 32.820 ug/l

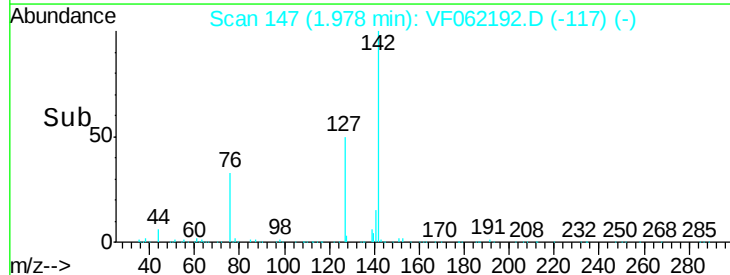
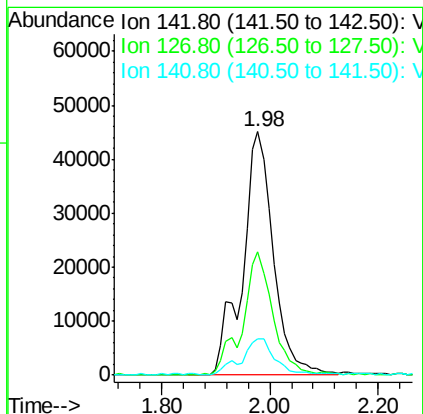
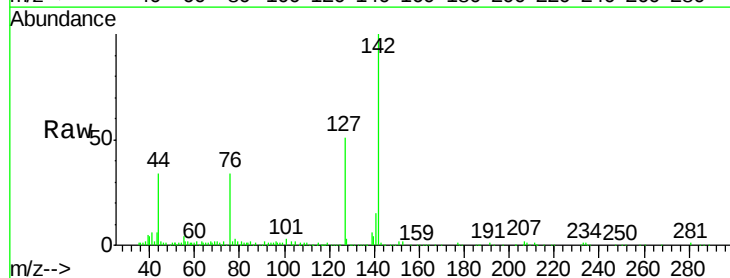
RT: 1.98 min Scan# 147

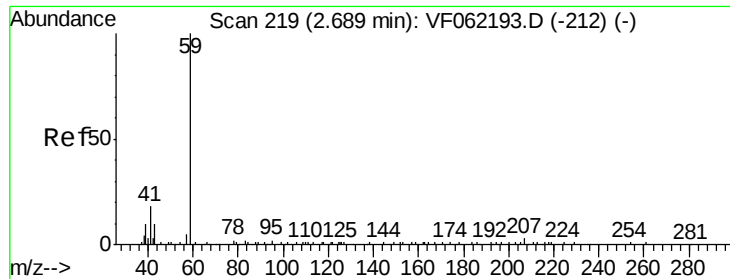
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion:	142	Resp:	178703
Ion Ratio	Lower	Upper	
142	100		
127	50.0	33.0	49.4#
141	15.9	12.7	19.1





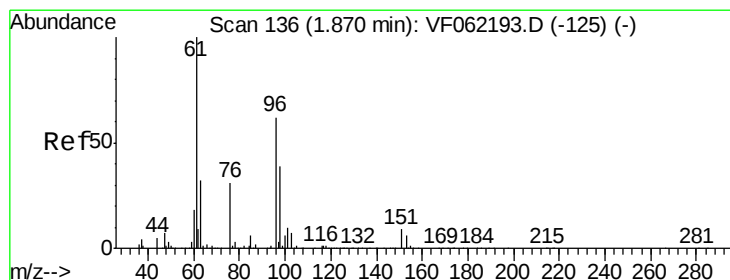
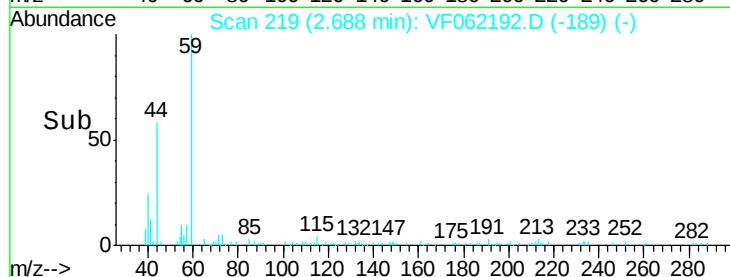
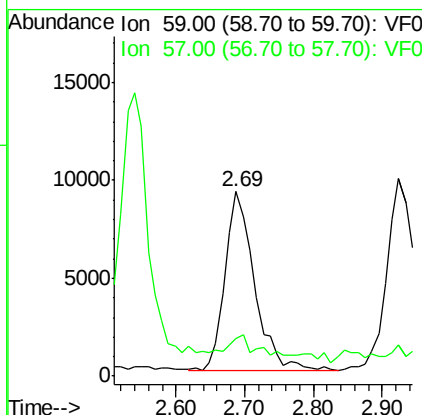
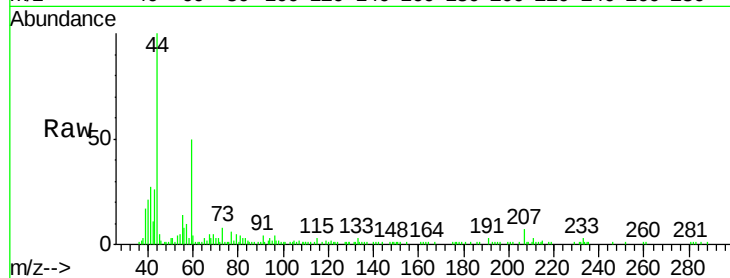
#11
Tert butyl alcohol
Concen: 23.121 ug/l
RT: 2.69 min Scan# 219
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.0	9.3	13.9

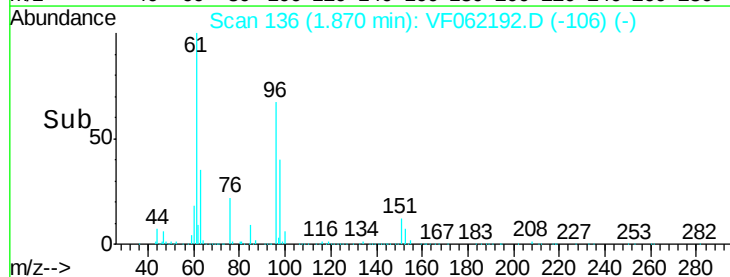
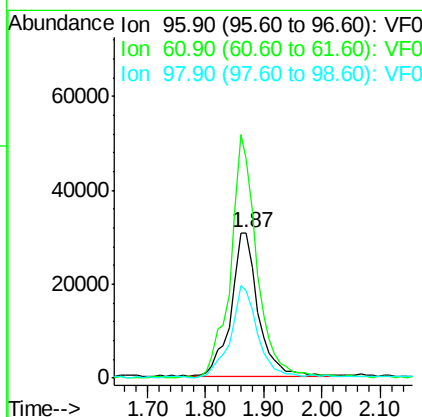
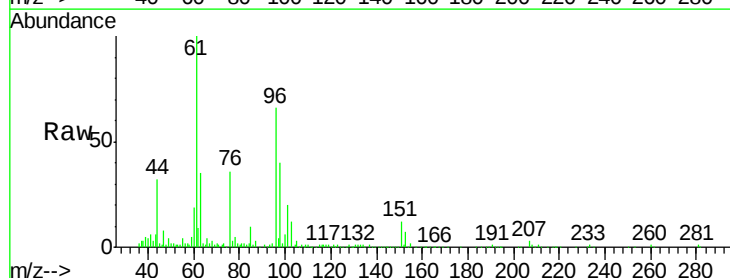
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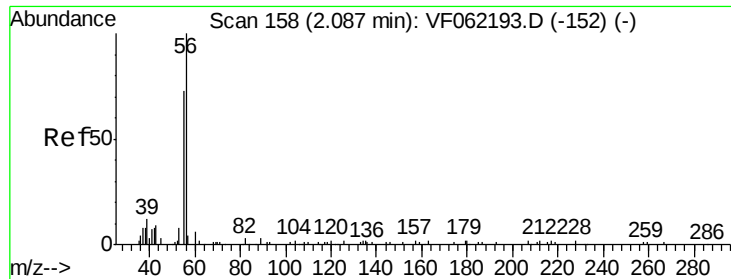
MMDadoda
4/19/2019 10:53:15 AM



#12
1,1-Dichloroethene
Concen: 20.769 ug/l
RT: 1.87 min Scan# 136
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.0	129.1	193.7
98	60.1	50.0	75.0





#13

Acrolein

Concen: 18.322 ug/l

RT: 2.09 min Scan# 158

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 18028

Ion Ratio Lower Upper

56 100

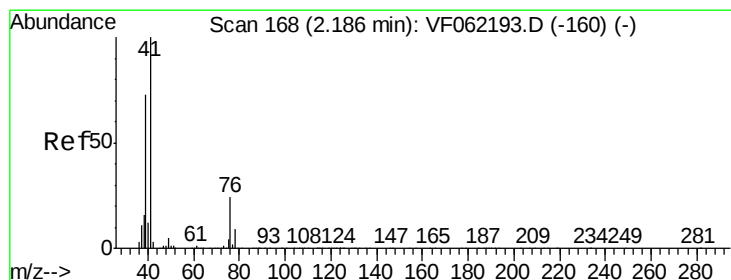
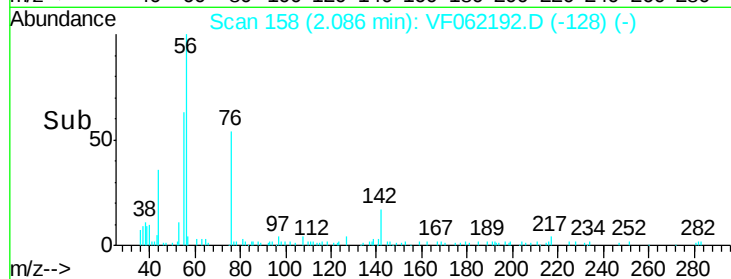
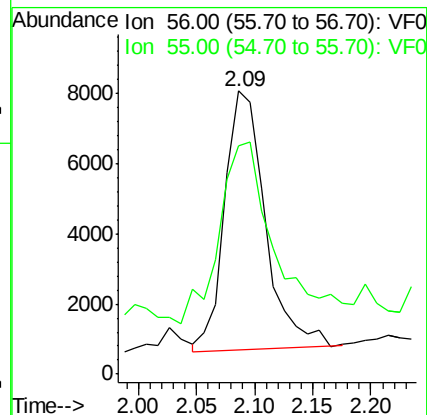
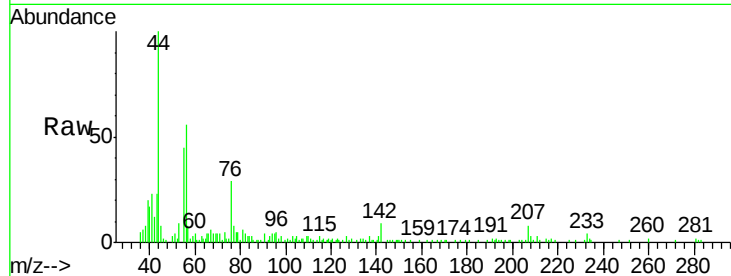
55 95.4 57.4 86.0#

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#14

Allyl chloride

Concen: 11.929 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

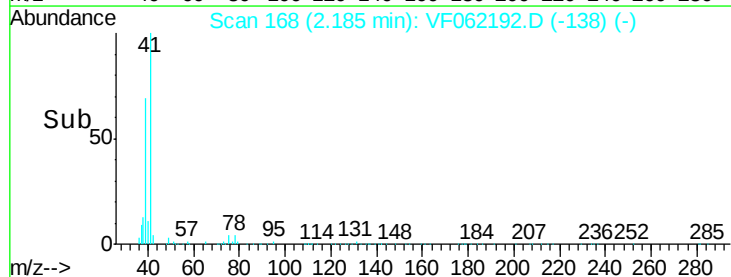
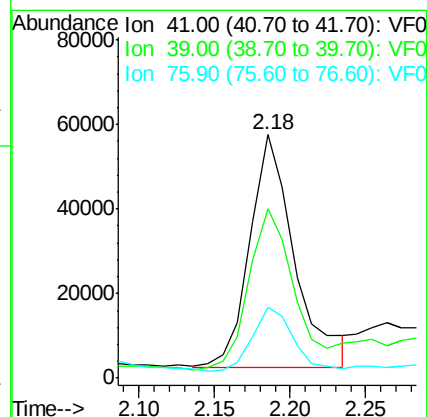
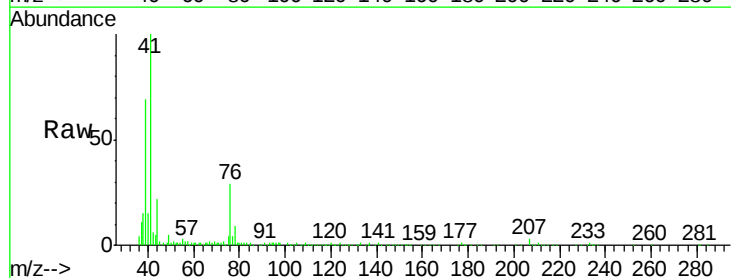
Tgt Ion: 41 Resp: 114492

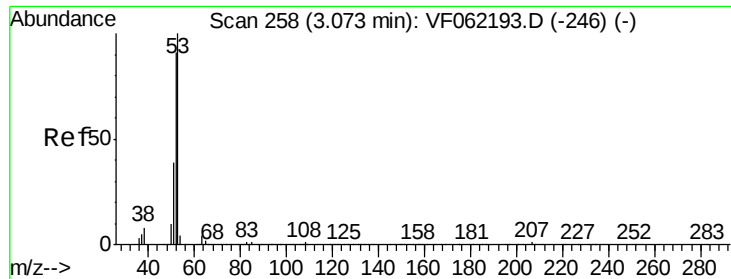
Ion Ratio Lower Upper

41 100

39 69.0 60.0 90.0

76 25.0 20.6 30.8





#15

Acrylonitrile

Concen: 30.916 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

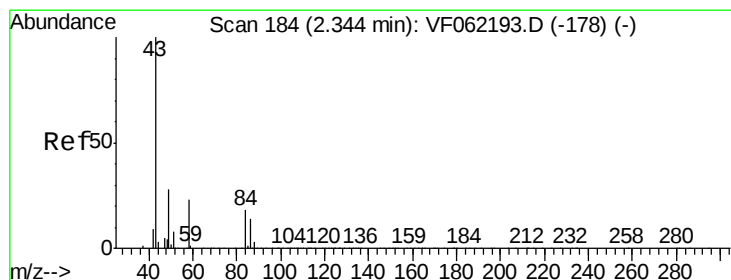
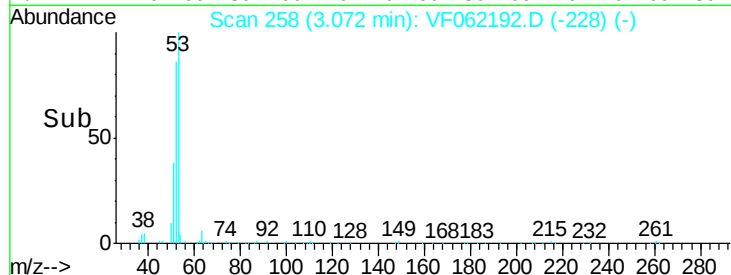
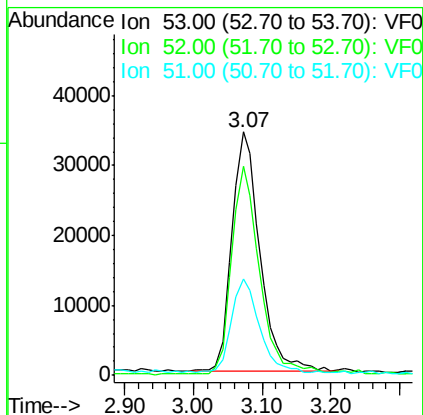
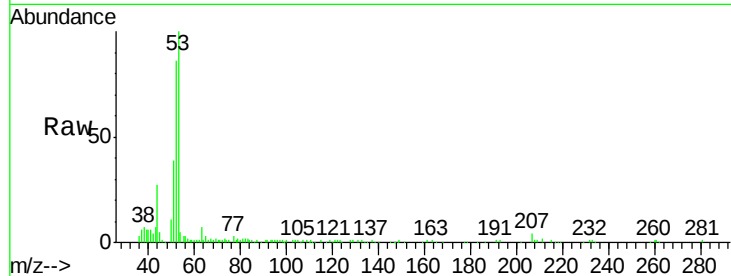
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	96147
Ion	Ratio	Lower	Upper
53	100		
52	87.0	69.5	104.3
51	38.6	31.8	47.8

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#16

Acetone

Concen: 31.543 ug/l

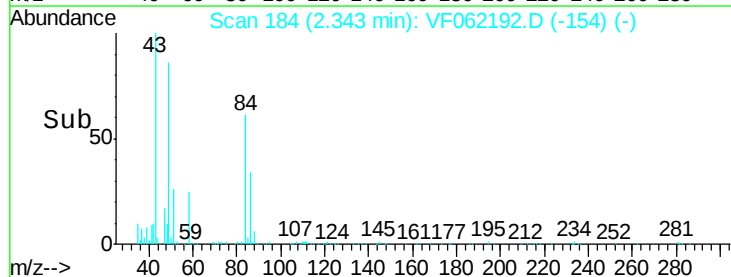
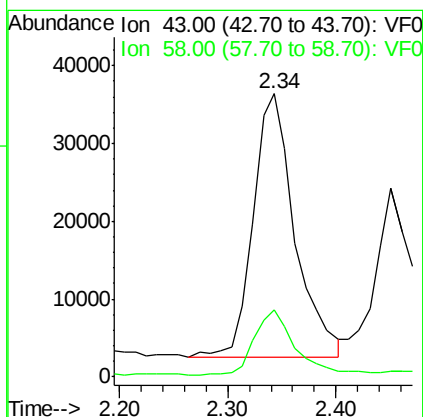
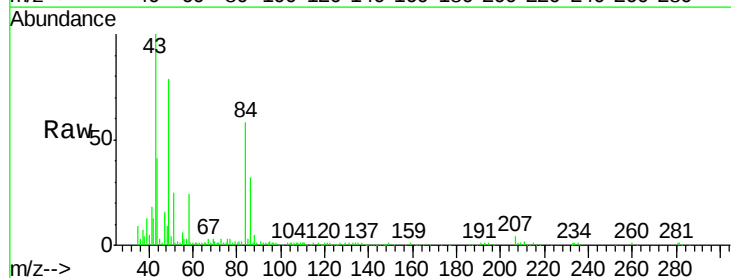
RT: 2.34 min Scan# 184

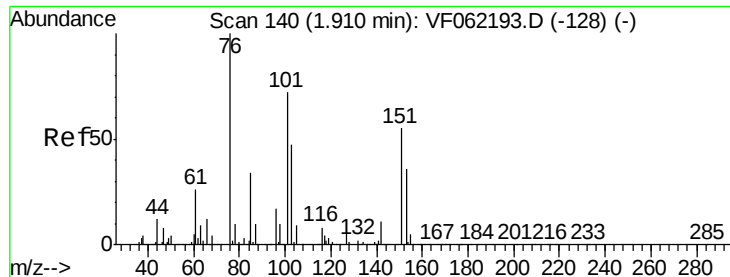
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion:	43	Resp:	91018
Ion	Ratio	Lower	Upper
43	100		
58	24.6	18.8	28.2





#17

Carbon Disulfide

Concen: 18.072 ug/l m

RT: 1.91 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 269976

Ion Ratio Lower Upper

76 100

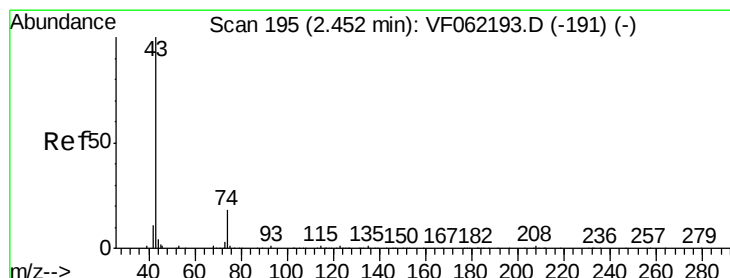
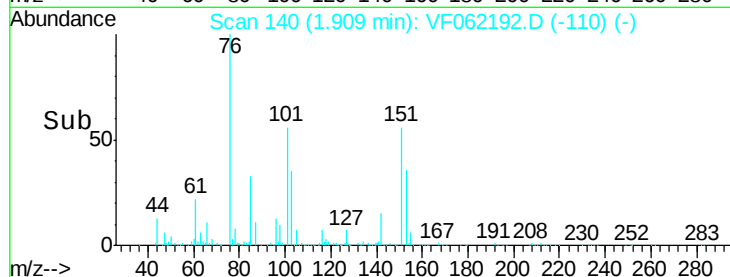
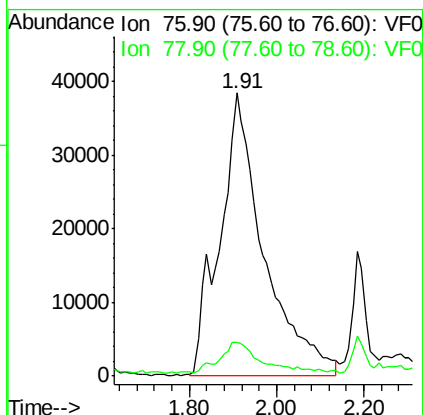
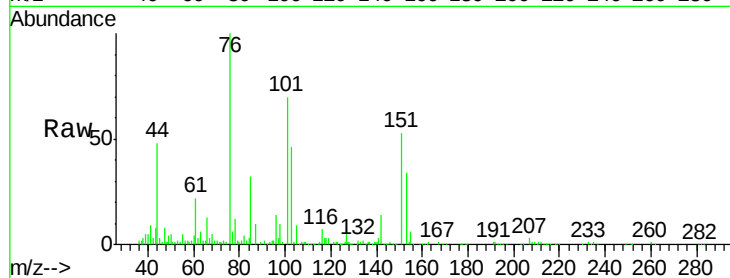
78 12.1 8.7 13.1

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#18

Methyl Acetate

Concen: 6.943 ug/l

RT: 2.45 min Scan# 195

Delta R.T. -0.00 min

Lab File: VF062192.D

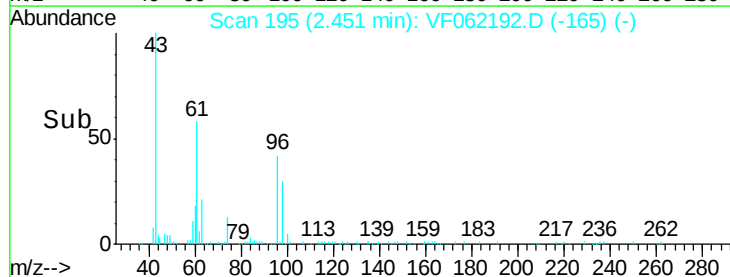
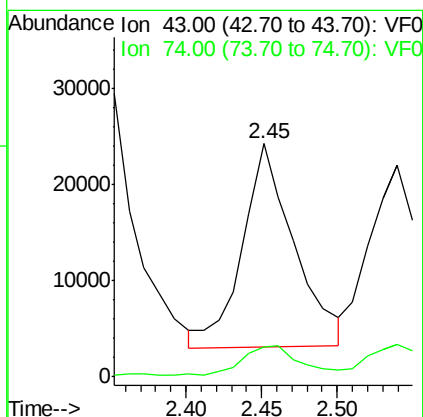
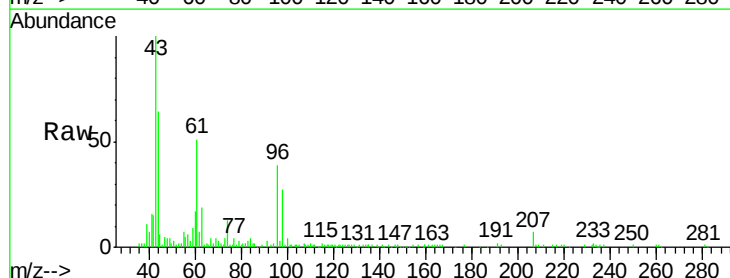
Acq: 17 Apr 2019 18:09

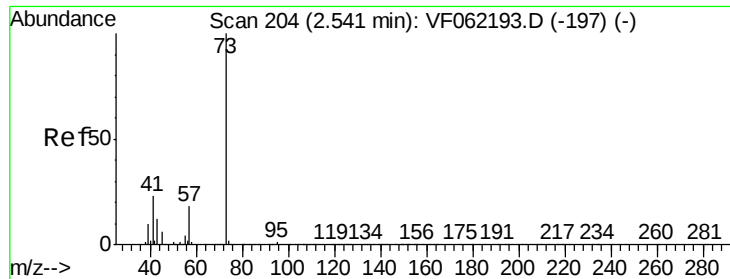
Tgt Ion: 43 Resp: 50347

Ion Ratio Lower Upper

43 100

74 16.3 14.5 21.7





#19

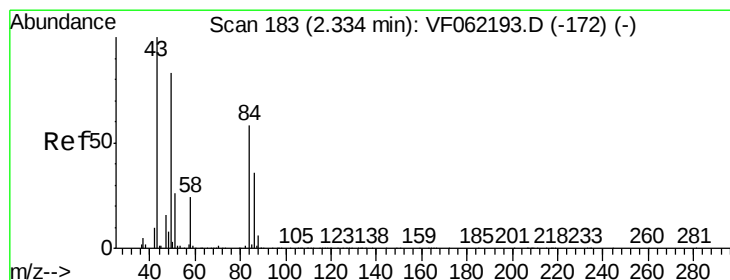
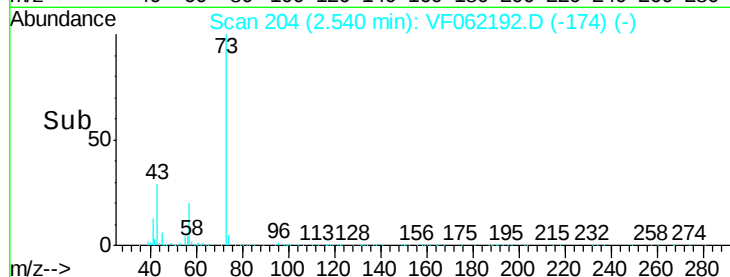
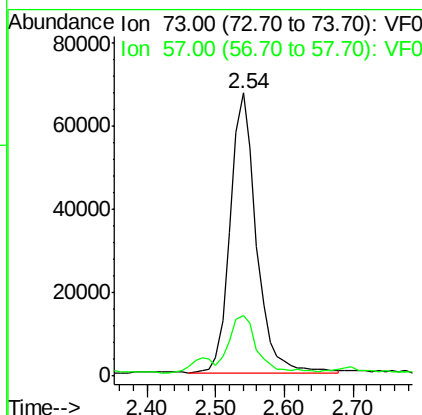
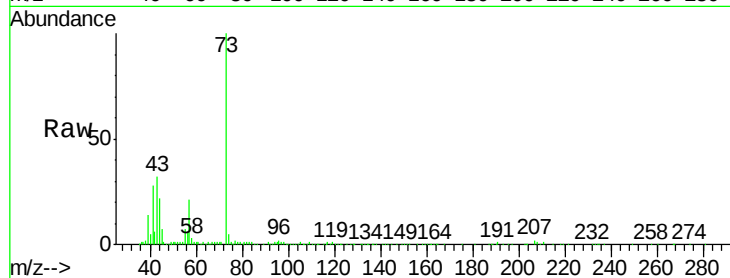
Methyl tert-butyl Ether
 Concen: 11.235 ug/l
 RT: 2.54 min Scan# 204
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.2	15.1	22.7

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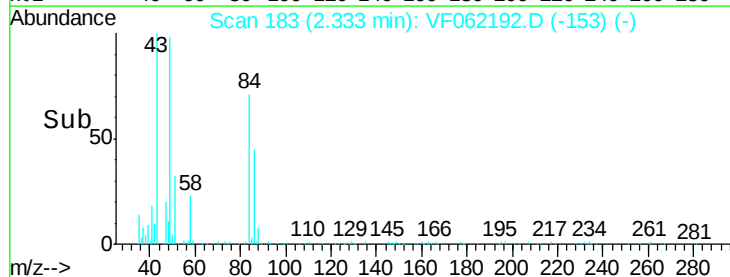
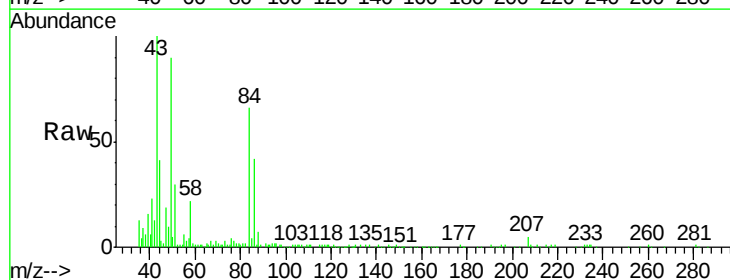
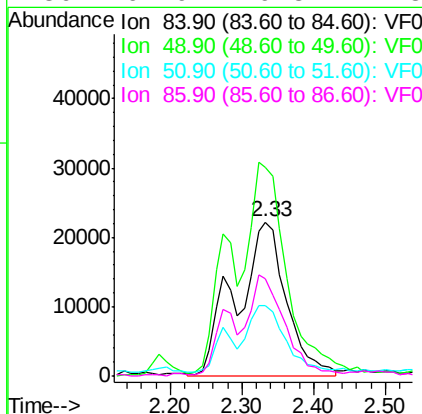
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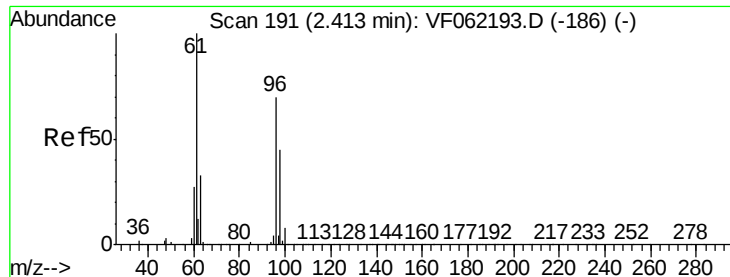


#20

Methylene Chloride
 Concen: 19.621 ug/l m
 RT: 2.33 min Scan# 183
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
84	100		
49	135.6	114.0	171.0
51	46.1	37.0	55.4
86	62.9	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 18.474 ug/l

RT: 2.41 min Scan# 191

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

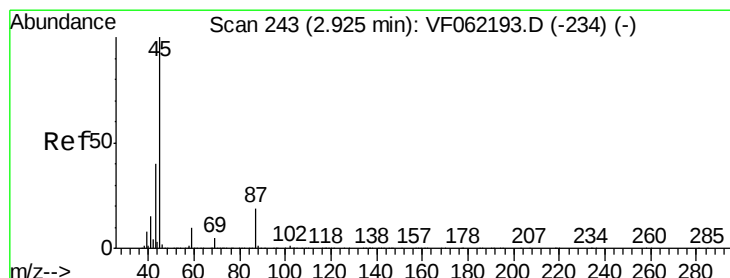
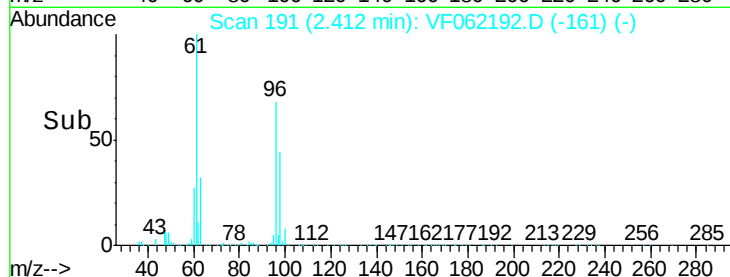
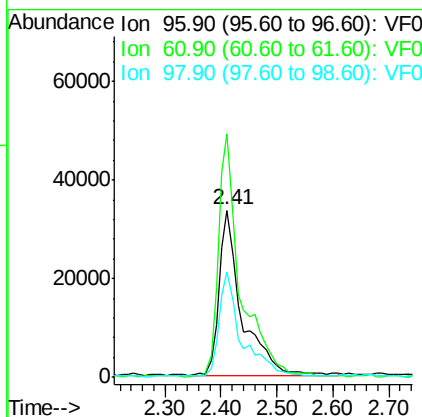
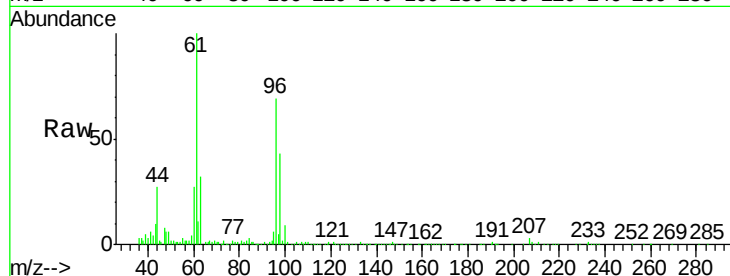
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	94490
Ion	Ratio	Lower	Upper
96	100		
61	146.8	114.6	172.0
98	63.1	51.2	76.8

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#22

Diisopropyl ether

Concen: 15.163 ug/l

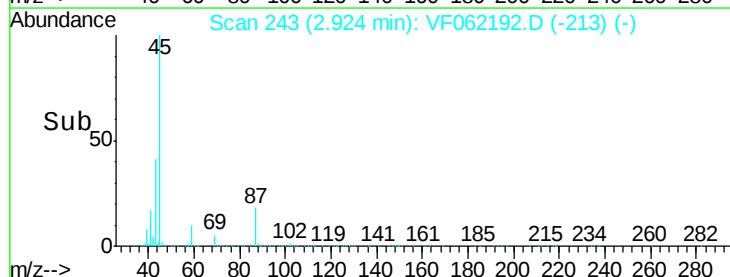
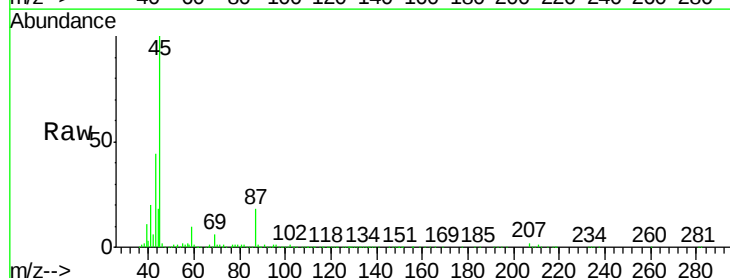
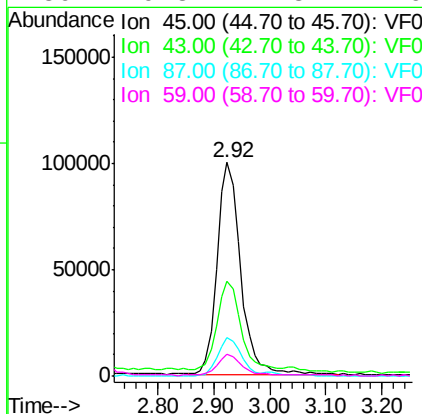
RT: 2.92 min Scan# 243

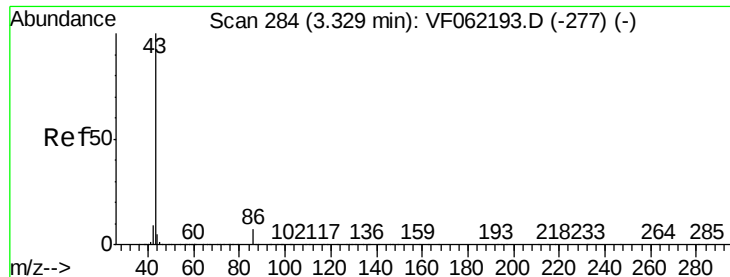
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion:	45	Resp:	293500
Ion	Ratio	Lower	Upper
45	100		
43	42.6	32.8	49.2
87	17.9	15.2	22.8
59	9.8	7.8	11.6





#23

Vinyl Acetate

Concen: 42.969 ug/l

RT: 3.33 min Scan# 284

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 689437

Ion Ratio Lower Upper

43 100

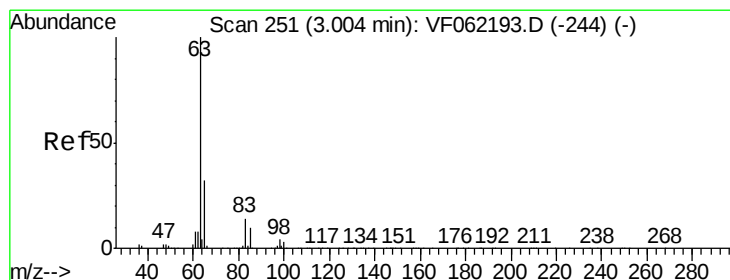
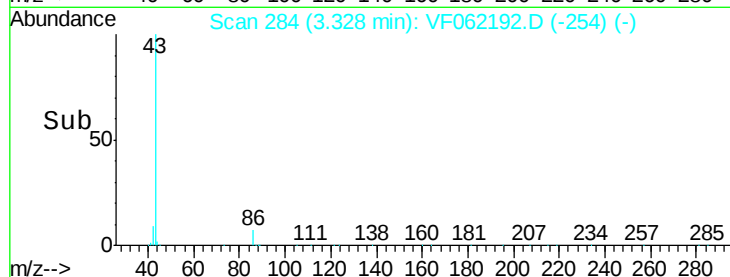
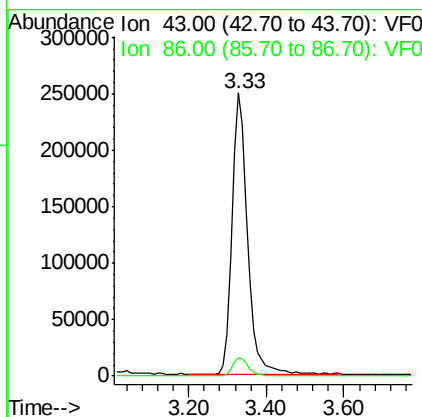
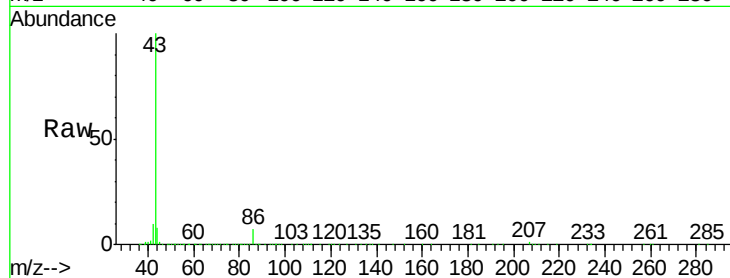
86 6.8 5.9 8.9

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#24

1,1-Dichloroethane

Concen: 16.518 ug/l

RT: 3.00 min Scan# 251

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

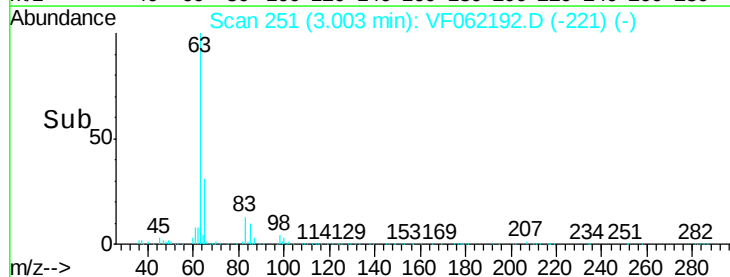
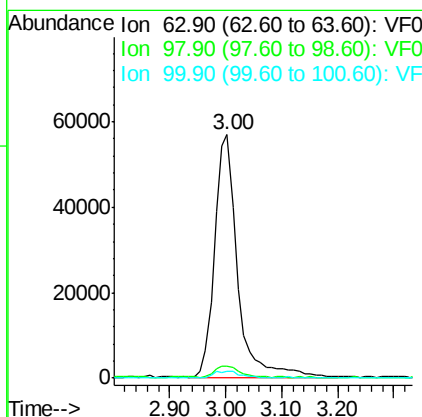
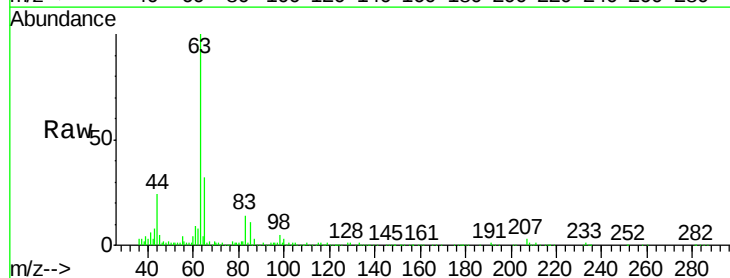
Tgt Ion: 63 Resp: 162052

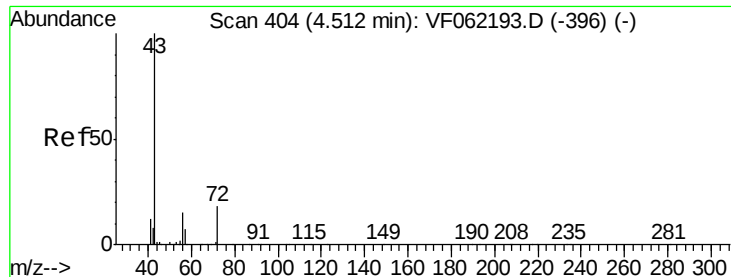
Ion Ratio Lower Upper

63 100

98 4.7 2.3 6.8

100 3.0 1.7 5.0





#25

2-Butanone

Concen: 39.696 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 185166

Ion Ratio Lower Upper

43 100

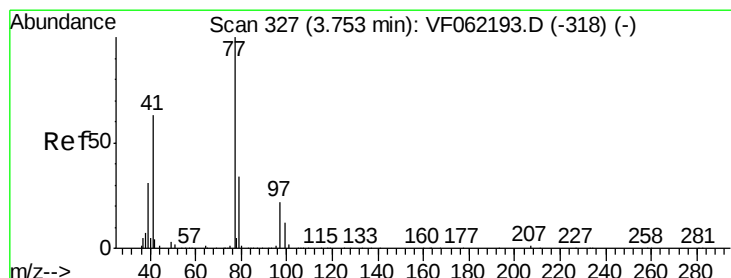
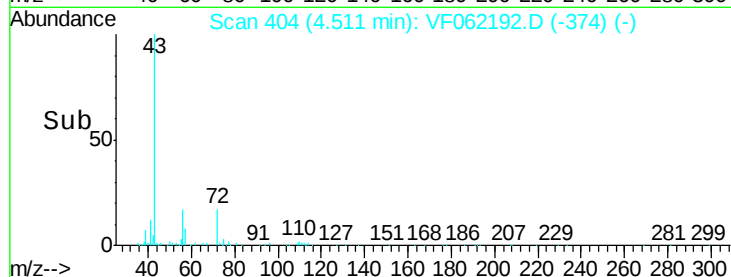
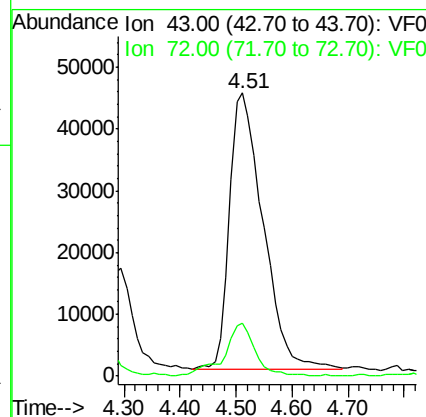
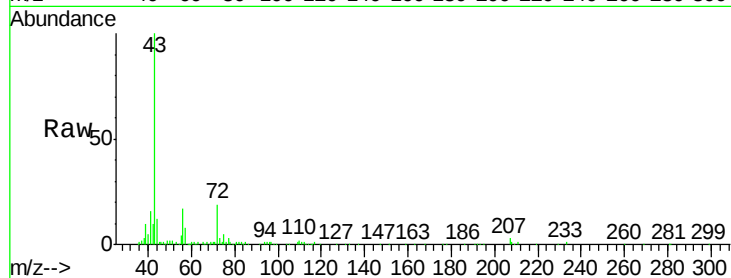
72 18.9 16.1 24.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 11.624 ug/l

RT: 3.75 min Scan# 327

Delta R.T. -0.00 min

Lab File: VF062192.D

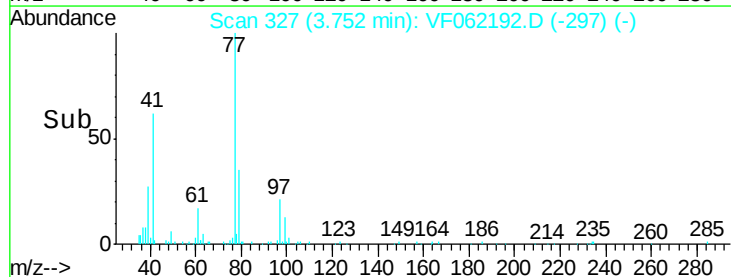
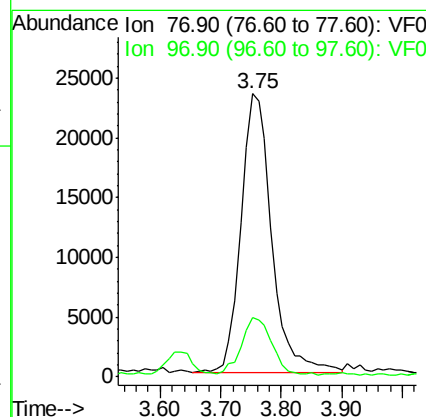
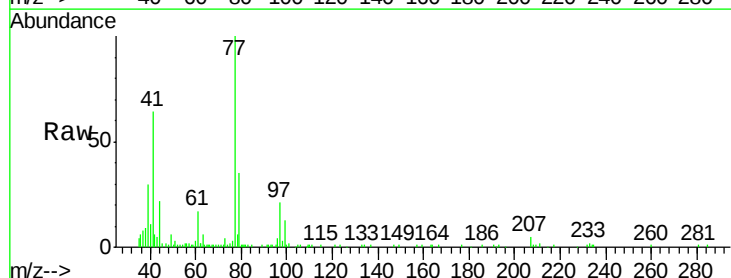
Acq: 17 Apr 2019 18:09

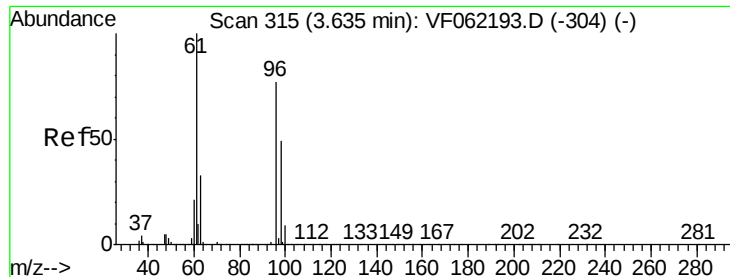
Tgt Ion: 77 Resp: 81645

Ion Ratio Lower Upper

77 100

97 20.9 11.1 33.3





#27

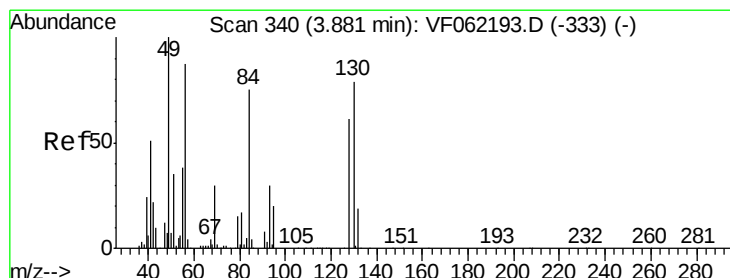
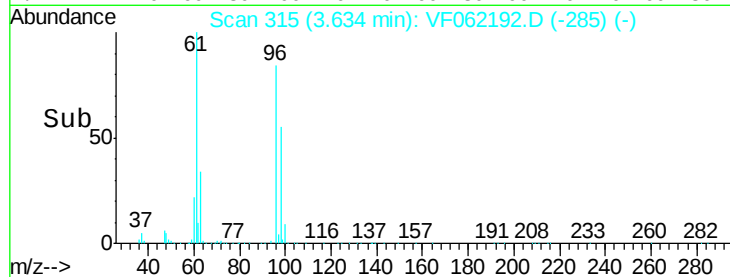
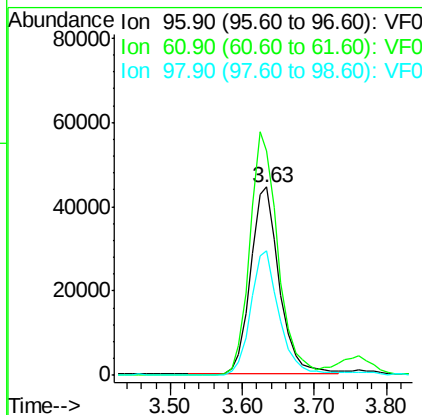
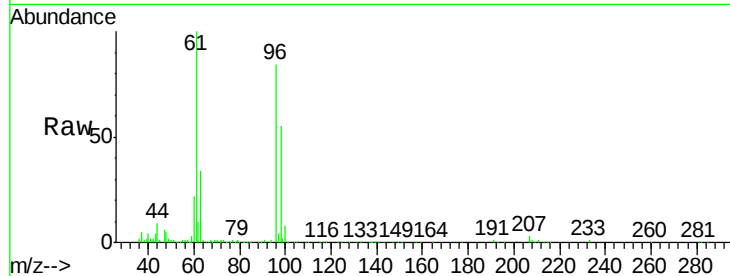
cis-1,2-Dichloroethene
Concen: 20.658 ug/l
RT: 3.63 min Scan# 315
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
96	100	122879		
61	127.9		0.0	253.6
98	66.6		0.0	124.8

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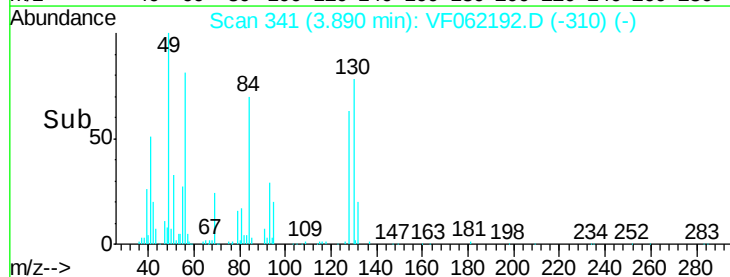
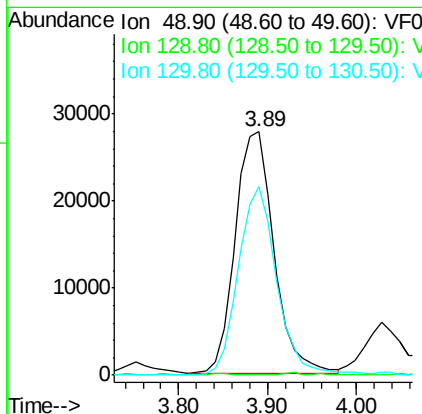
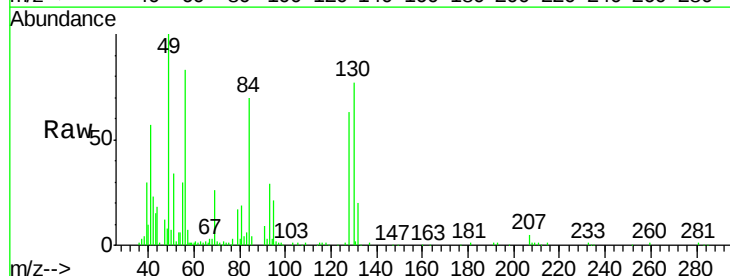
MMDadoda
4/19/2019 10:53:15 AM



#28

Bromochloromethane
Concen: 18.448 ug/l
RT: 3.89 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	84620		
129	0.0		0.0	0.0
130	76.9		66.6	100.0





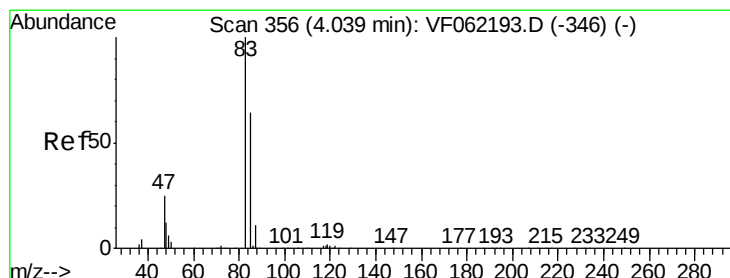
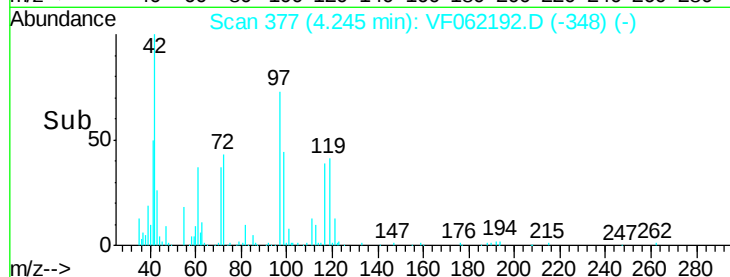
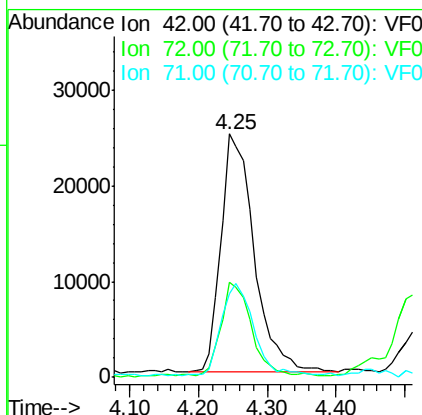
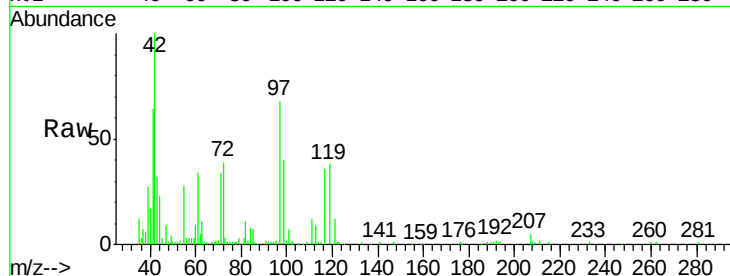
#29
Tetrahydrofuran
Concen: 27.005 ug/l
RT: 4.25 min Scan# 377
Delta R.T. -0.01 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.9	28.6	43.0
71	39.9	29.2	43.8

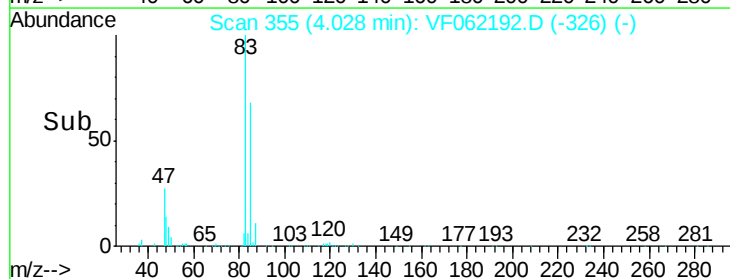
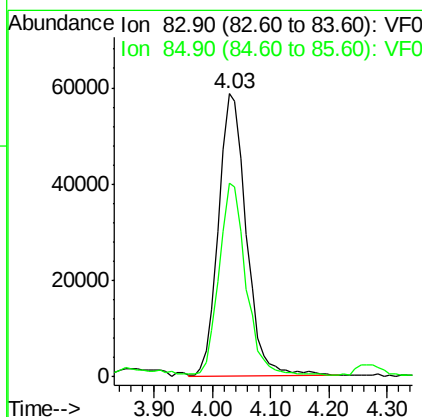
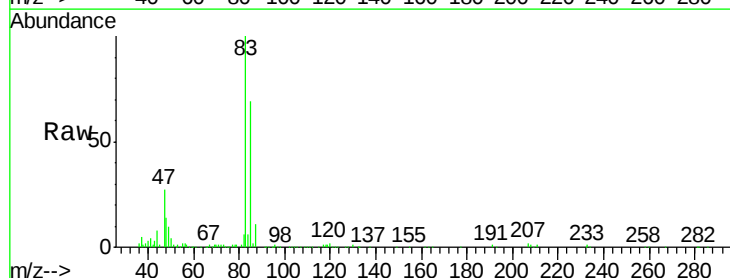
Manual Integrations
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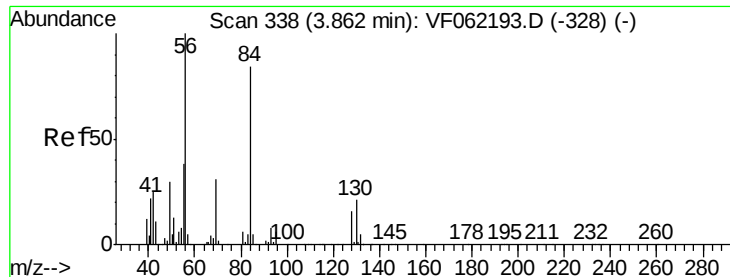
MMDadoda
4/19/2019 10:53:15 AM



#30
Chloroform
Concen: 21.034 ug/l
RT: 4.03 min Scan# 355
Delta R.T. -0.01 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.1	51.8	77.8





#31

Cyclohexane

Concen: 18.608 ug/l

RT: 3.86 min Scan# 338

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

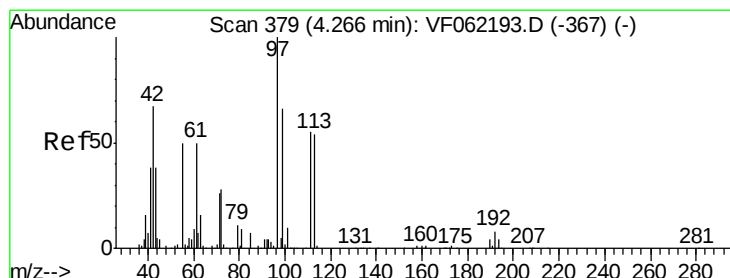
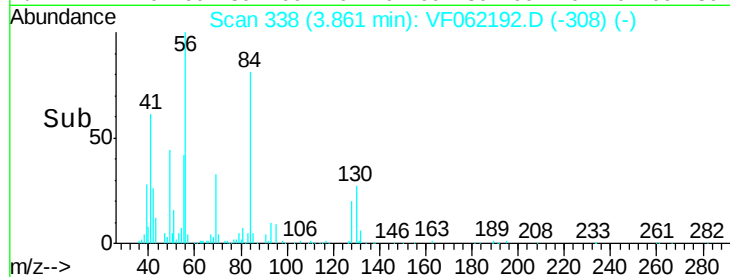
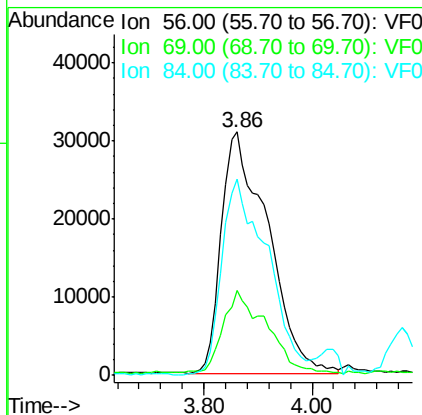
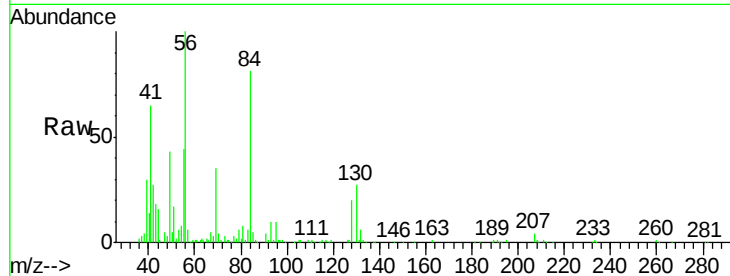
ClientSampleId :

VSTDIC020

Tot Ion:	56	Resp:	185119
Ion	Ratio	Lower	Upper
56	100		
69	33.9	25.1	37.7
84	80.4	67.8	101.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 20.547 ug/l

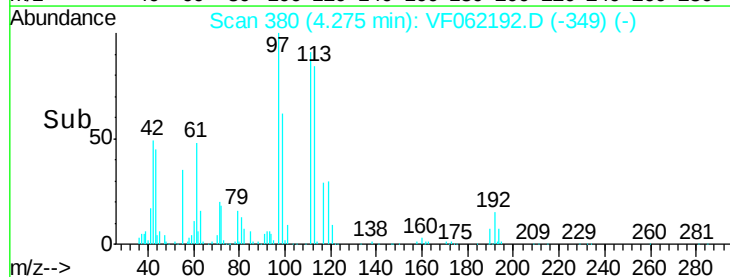
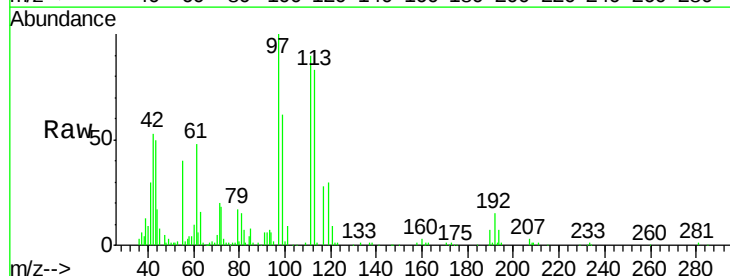
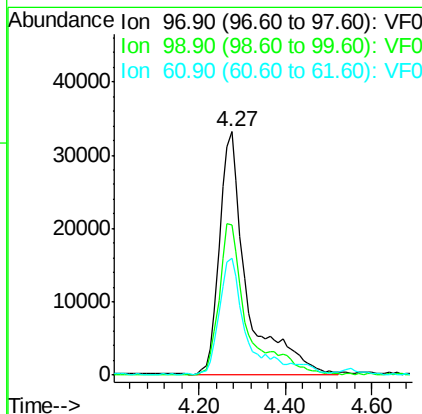
RT: 4.27 min Scan# 380

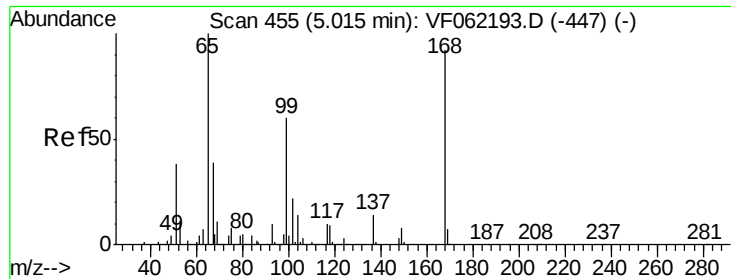
Delta R.T. 0.01 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion:	97	Resp:	148969
Ion	Ratio	Lower	Upper
97	100		
99	62.5	52.7	79.1
61	40.2	53.0	79.4#





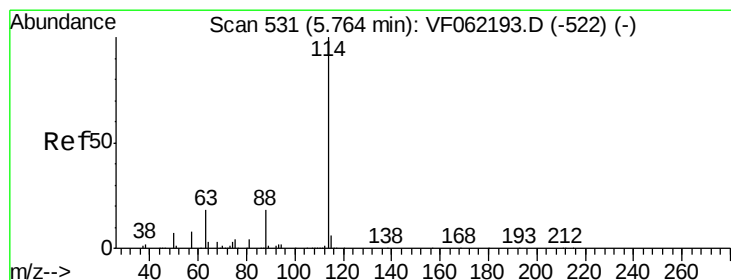
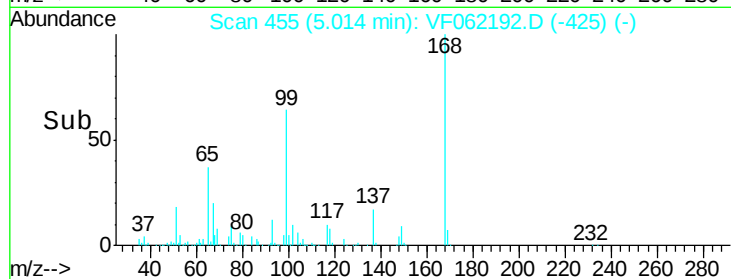
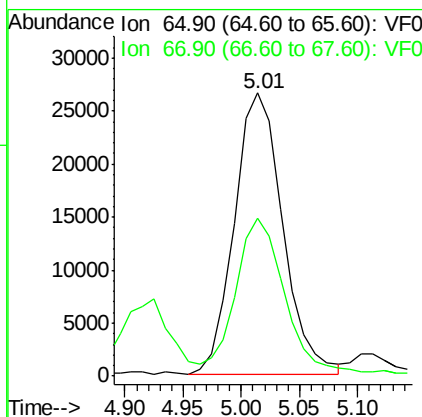
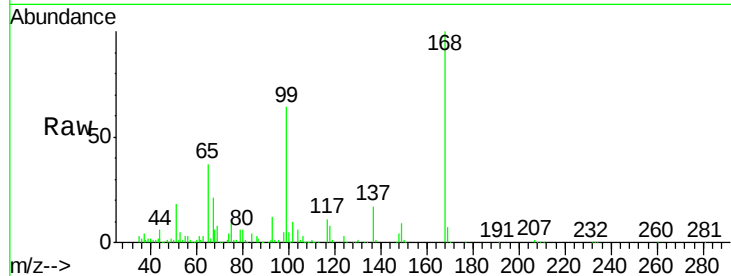
#33
 1,2-Dichloroethane-d4
 Concen: 12.894 ug/l
 RT: 5.01 min Scan# 455
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	56.2	0.0	109.4	

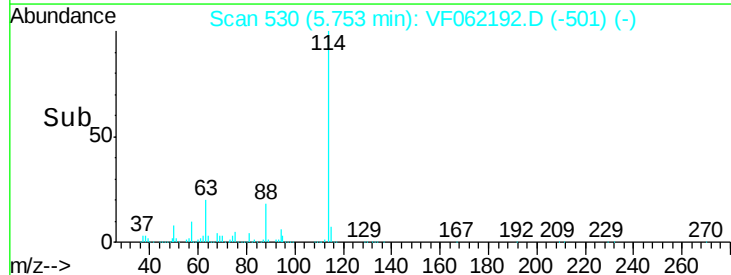
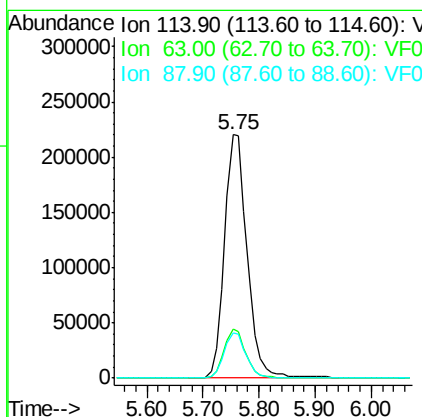
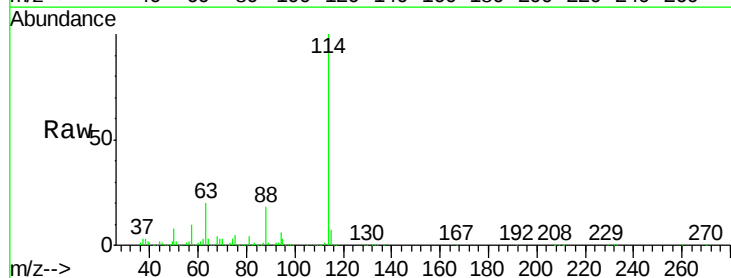
Manual Integrations
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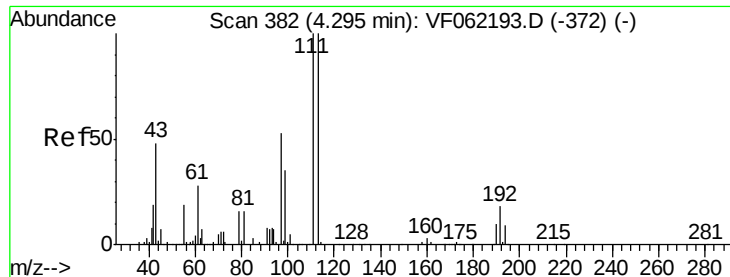
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	20.0	0.0	36.6	
88	18.3	0.0	35.8	





#35

Dibromofluoromethane

Concen: 26.013 ug/l

RT: 4.28 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

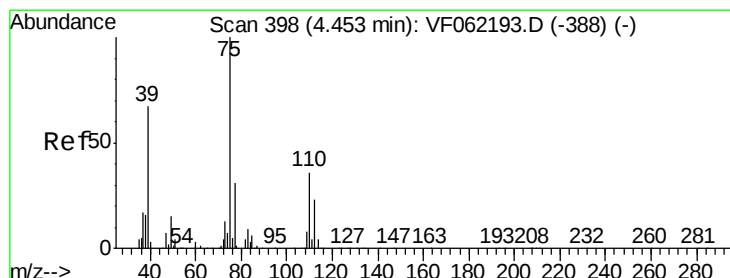
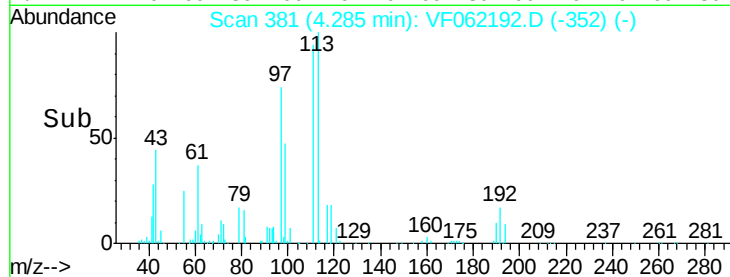
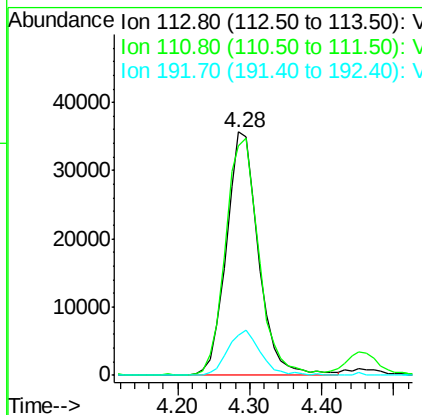
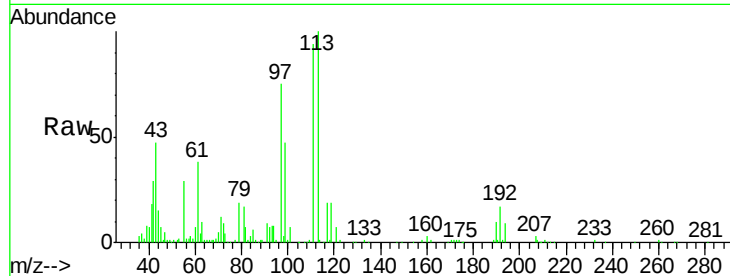
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
113	100	110449		
111	101.6		81.1	121.7
192	18.8		14.7	22.1

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#36

1,1-Dichloropropene

Concen: 22.862 ug/l

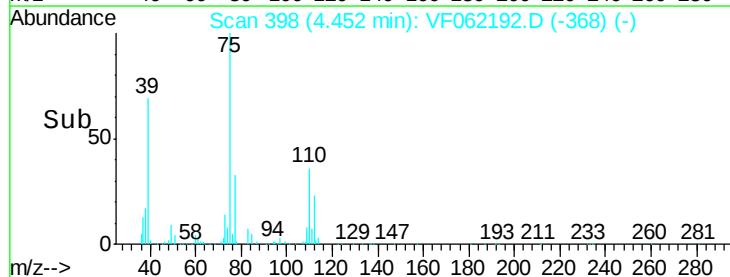
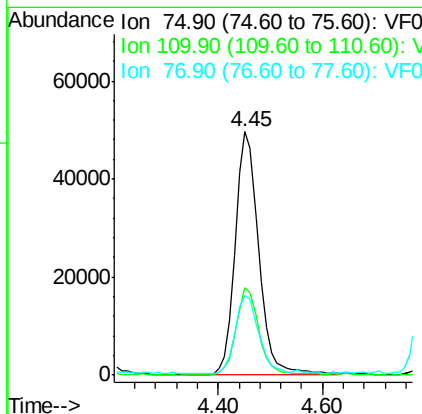
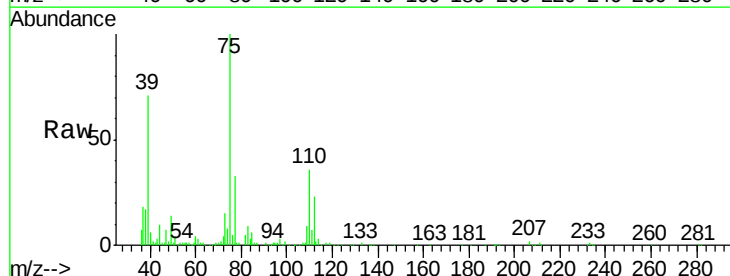
RT: 4.45 min Scan# 398

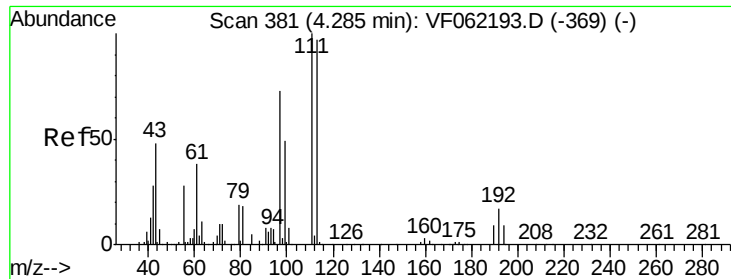
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	151748		
110	34.8		18.4	55.2
77	31.4		25.4	38.2





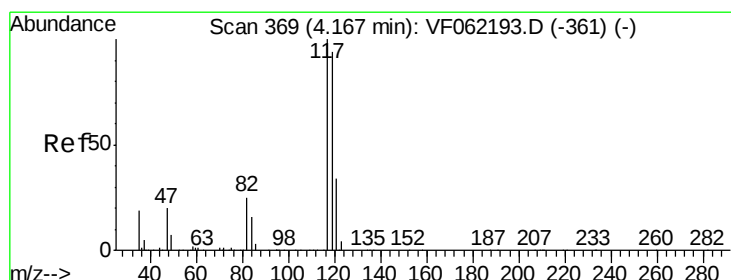
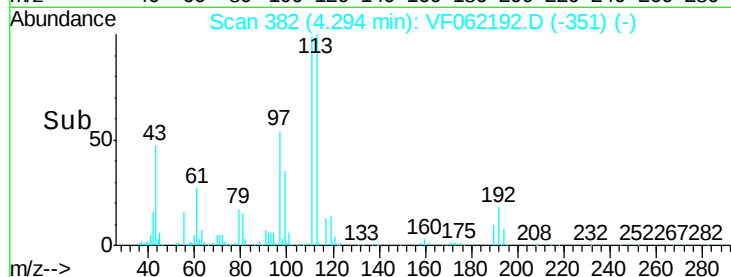
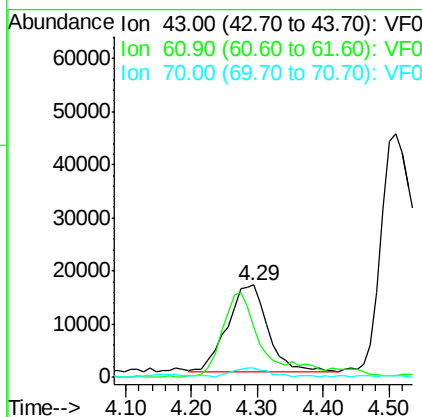
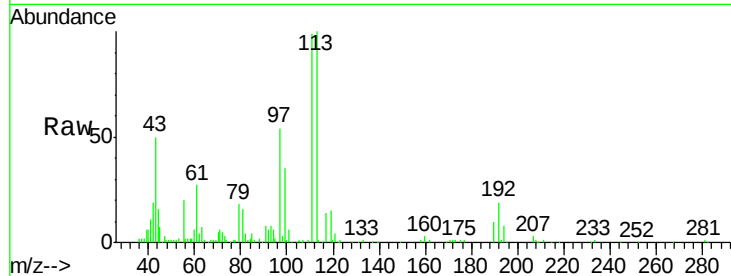
#37
Ethyl Acetate
Concen: 9.272 ug/l
RT: 4.29 min Scan# 382
Delta R.T. 0.01 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	43	61	70
Resp	68837		
Ratio	100	86.9	11.4
Lower		0.0	7.8
Upper		0.0#	11.6

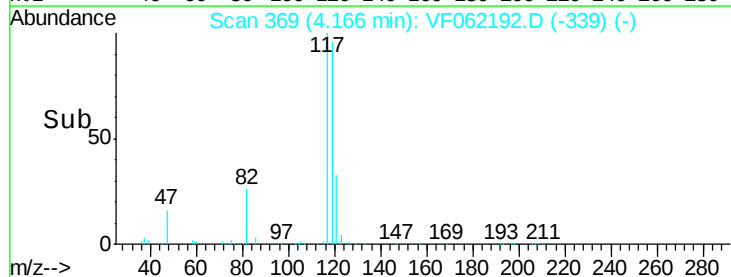
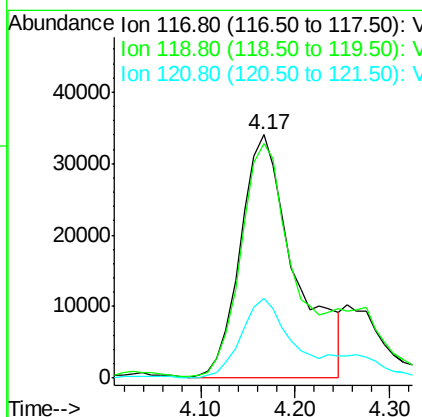
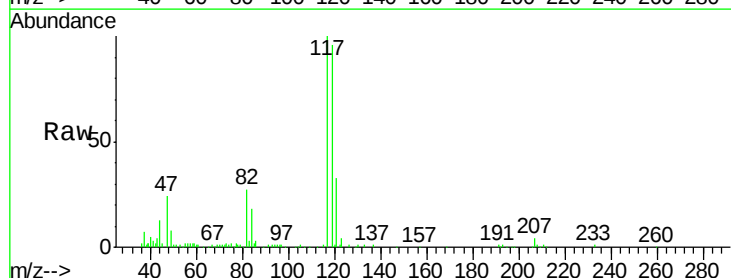
Manual Integrations
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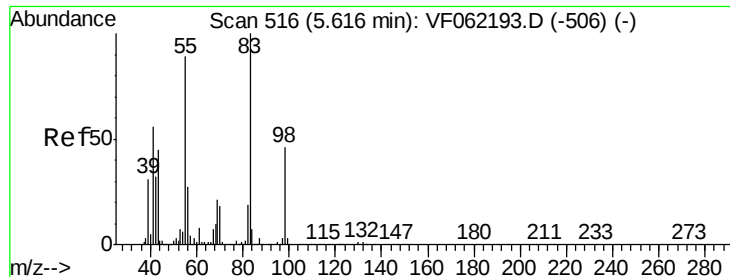
MMDadoda
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#38
Carbon Tetrachloride
Concen: 24.516 ug/l
RT: 4.17 min Scan# 369
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	117	119	121
Resp	135967		
Ratio	100	96.0	33.1
Lower		75.0	26.9
Upper		112.4	40.3





#39

Methvlcvclohexane

Concen: 22.008 ug/l

RT: 5.62 min Scan# 516

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 83 Resp: 176399

Ion Ratio Lower Upper

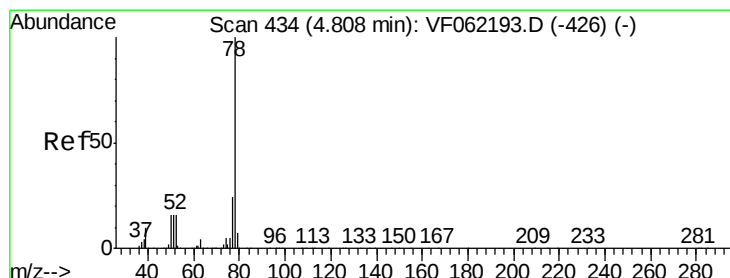
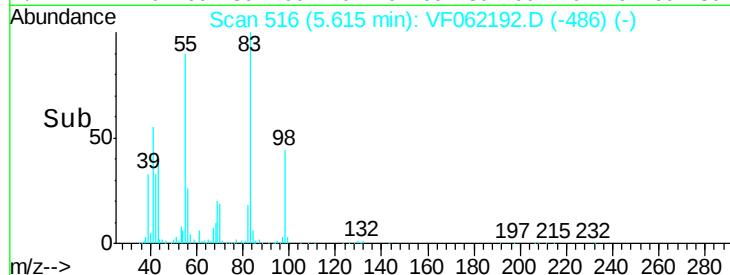
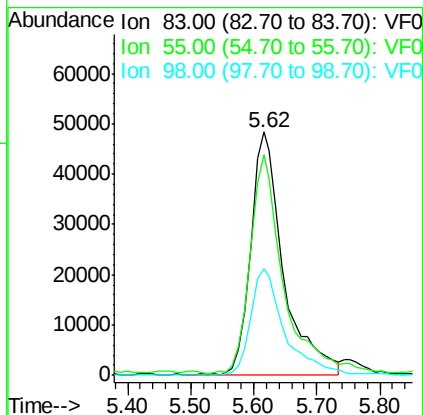
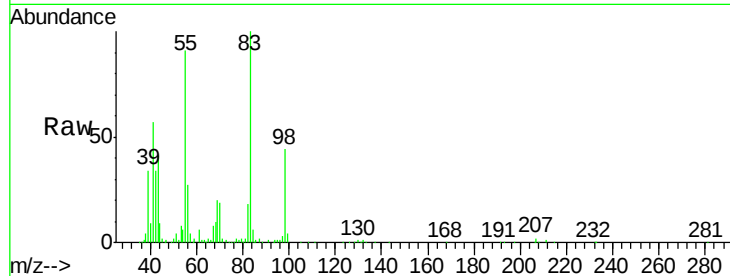
83 100

55 88.8 71.0 106.6

98 43.8 36.7 55.1

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#40

Benzene

Concen: 20.725 ug/l

RT: 4.81 min Scan# 434

Delta R.T. -0.00 min

Lab File: VF062192.D

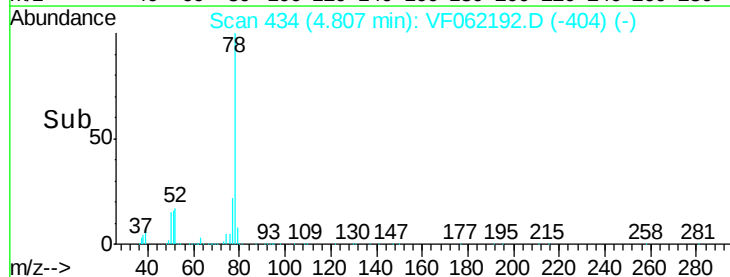
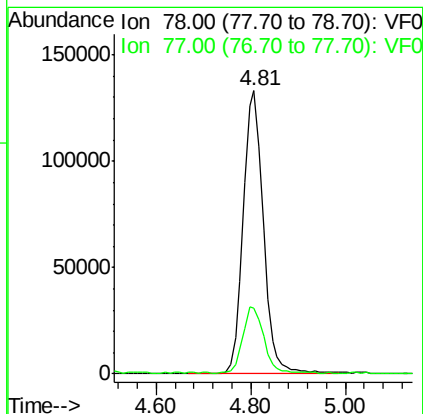
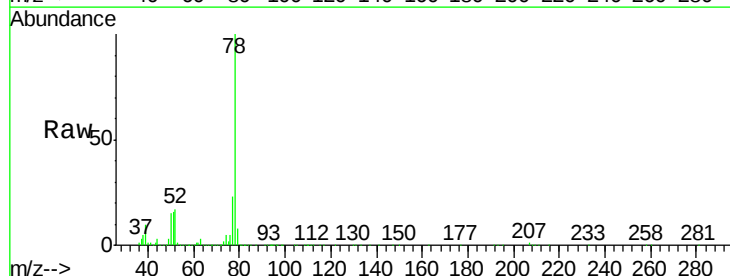
Acq: 17 Apr 2019 18:09

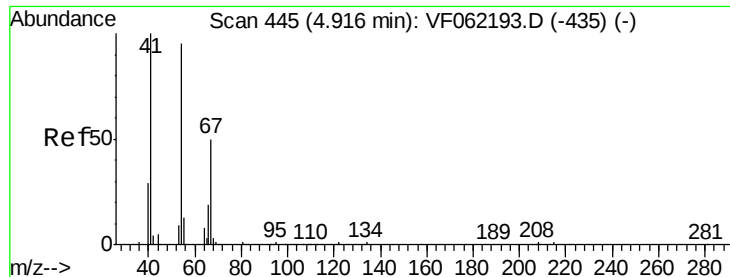
Tgt Ion: 78 Resp: 394501

Ion Ratio Lower Upper

78 100

77 23.0 18.9 28.3





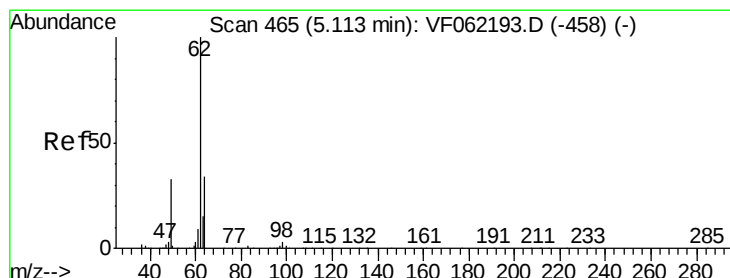
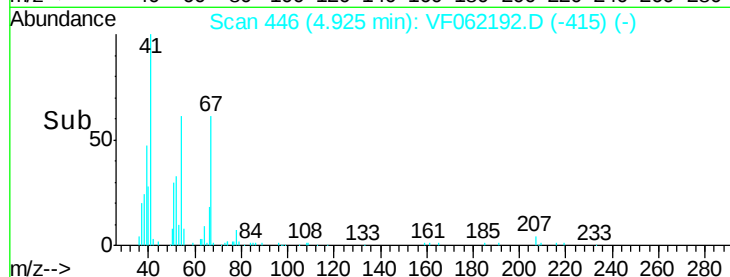
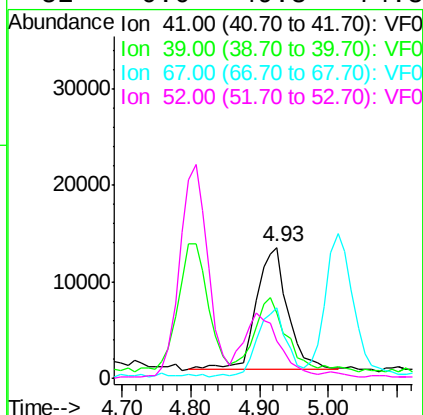
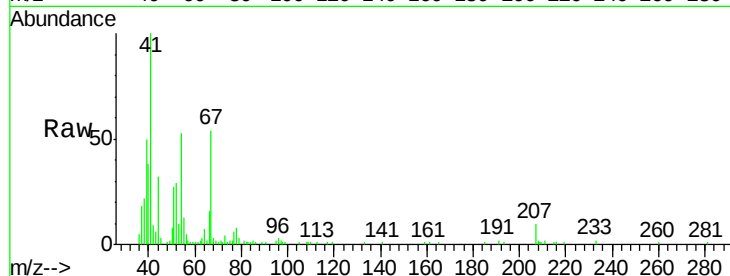
#41
Methacrylonitrile
Concen: 9.236 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.01 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
39651	41	100		
	39	56.3	44.7	67.1
	67	52.6	39.1	58.7
	52	0.0	49.8	74.8

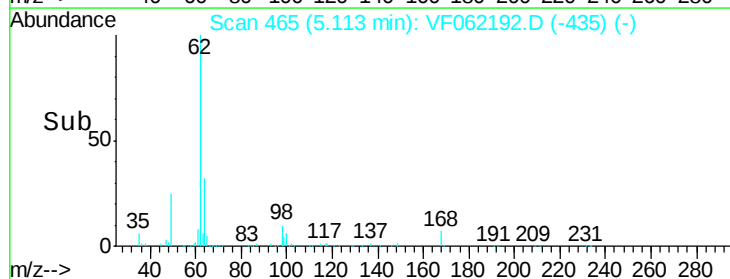
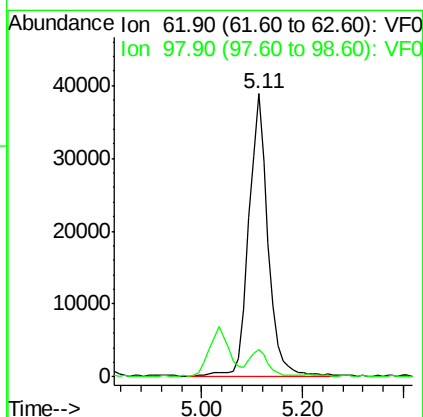
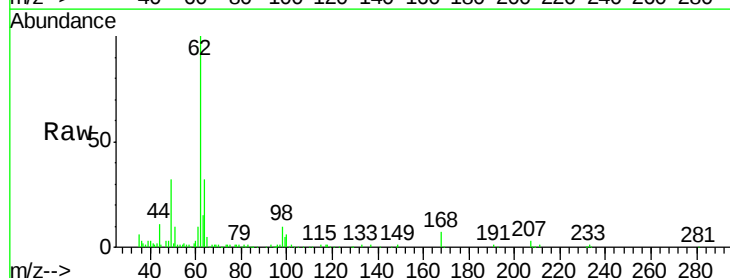
Manual Integrations
APPROVED

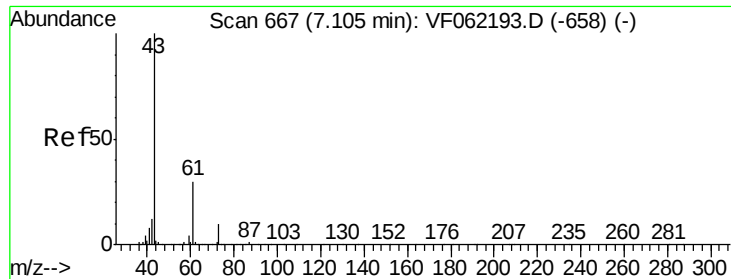
MMDadoda
4/19/2019 10:53:15 AM



#42
1,2-Dichloroethane
Concen: 16.175 ug/l
RT: 5.11 min Scan# 465
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ion	Ratio	Lower	Upper
104817	62	100		
	98	9.5	0.0	19.0





#43

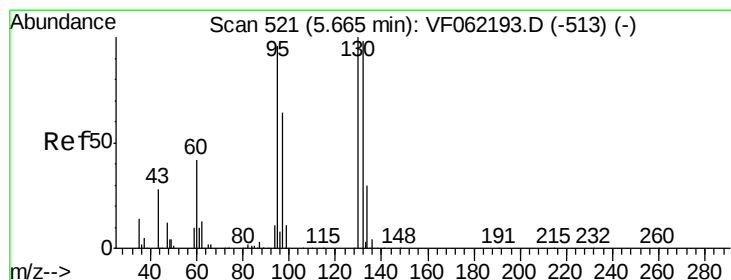
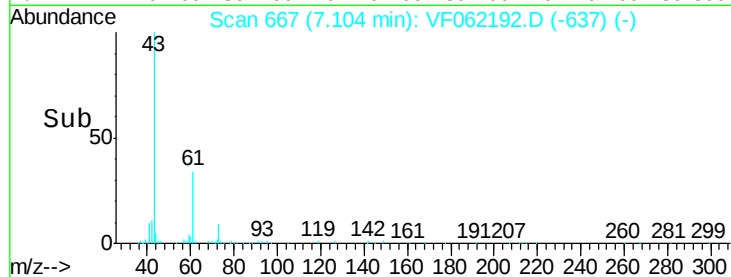
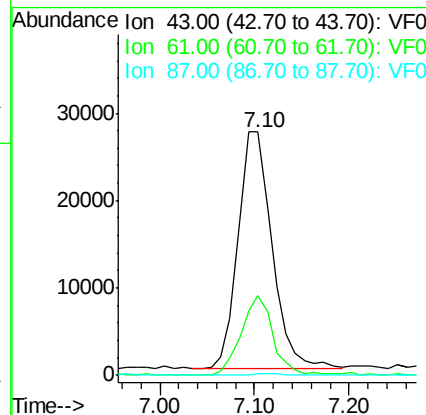
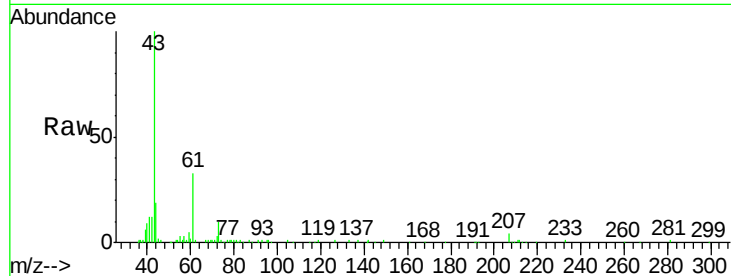
Isopropyl Acetate
 Concen: 5.736 ug/l
 RT: 7.10 min Scan# 667
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	32.3	24.4	36.6
87	0.6	0.4	0.6

Manual Integrations
 APPROVED

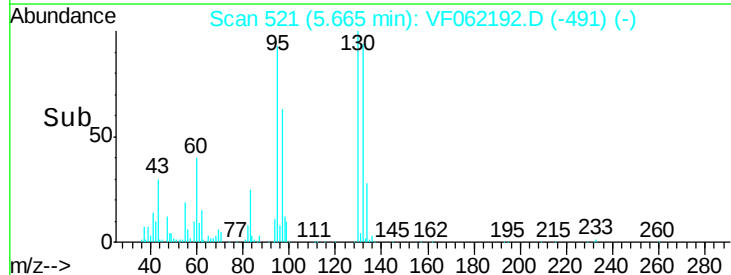
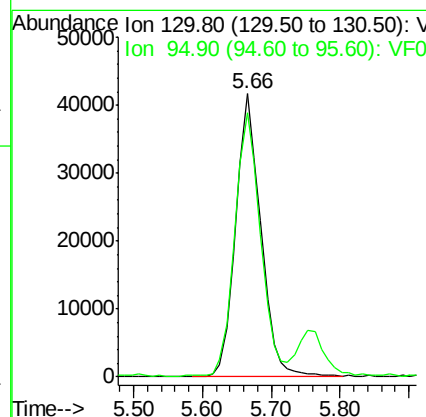
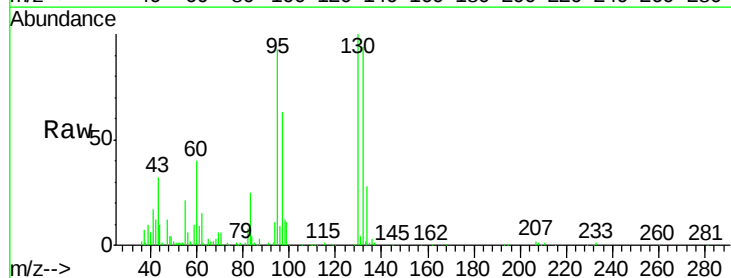
MMDadoda
 4/19/2019 10:53:15 AM

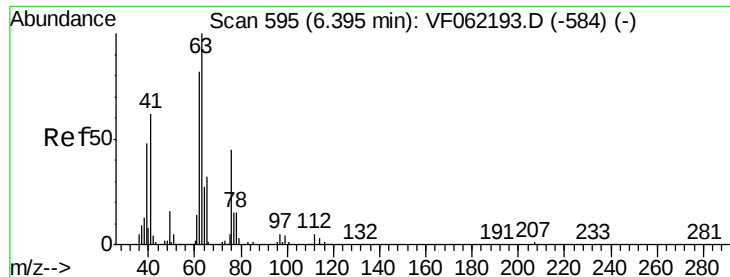


#44

Trichloroethene
 Concen: 22.130 ug/l
 RT: 5.66 min Scan# 521
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.8	0.0	191.4





#45

1,2-Dichloropropane

Concen: 16.429 ug/l

RT: 6.39 min Scan# 595

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 83623

Ion Ratio Lower Upper

63 100

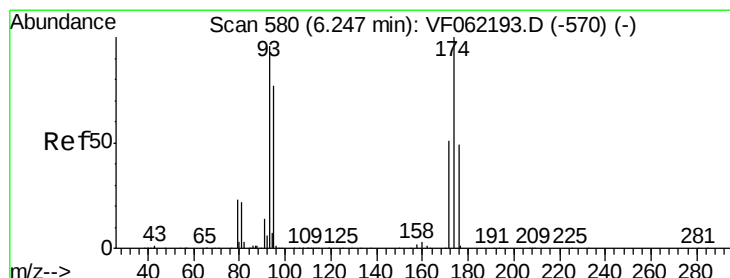
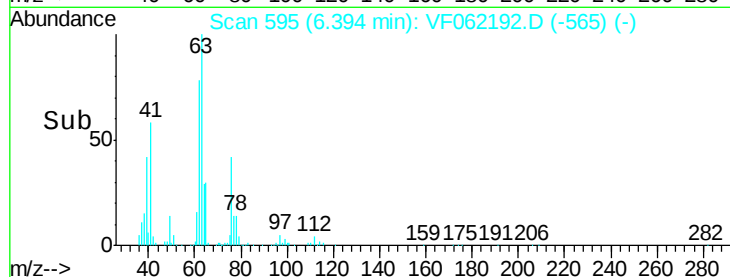
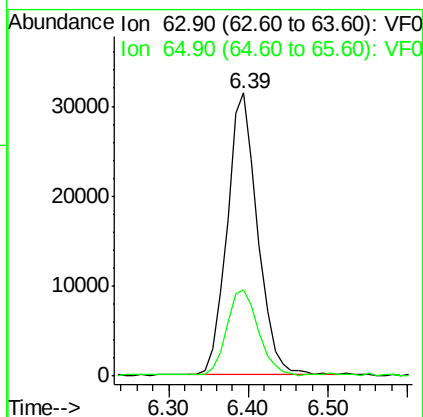
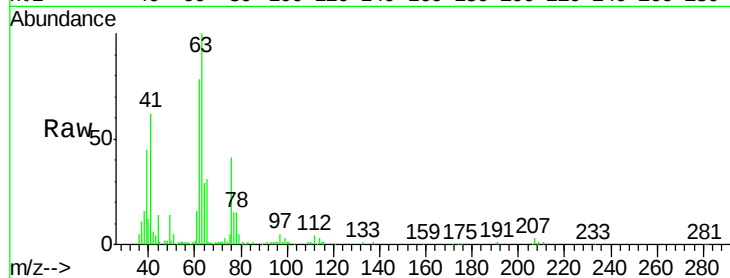
65 30.3 25.9 38.9

Manual Integrations

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MMDadoda

4/19/2019 10:53:15 AM



#46

Dibromomethane

Concen: 18.801 ug/l

RT: 6.25 min Scan# 580

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

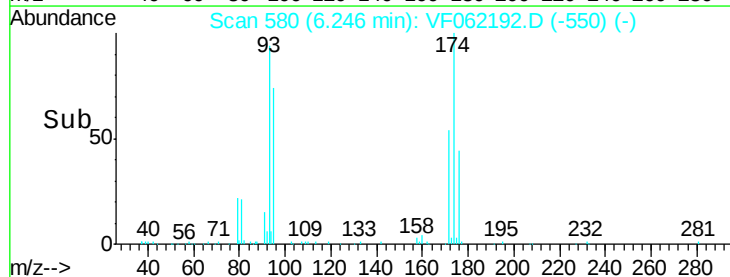
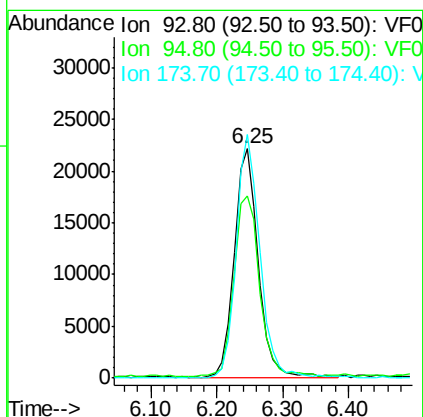
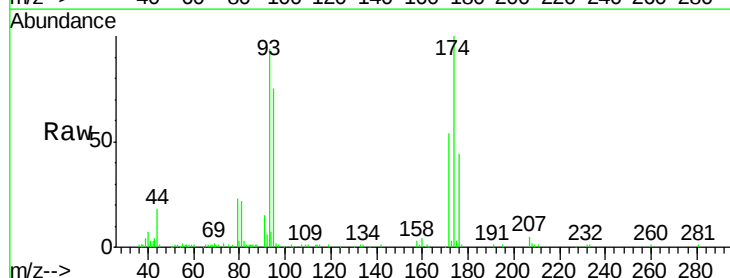
Tgt Ion: 93 Resp: 57360

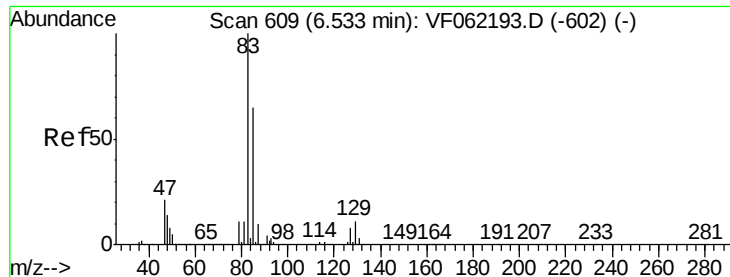
Ion Ratio Lower Upper

93 100

95 83.4 65.1 97.7

174 103.2 81.8 122.6





#47

Bromodichloromethane

Concen: 21.721 ug/l

RT: 6.54 min Scan# 610

Delta R.T. 0.01 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

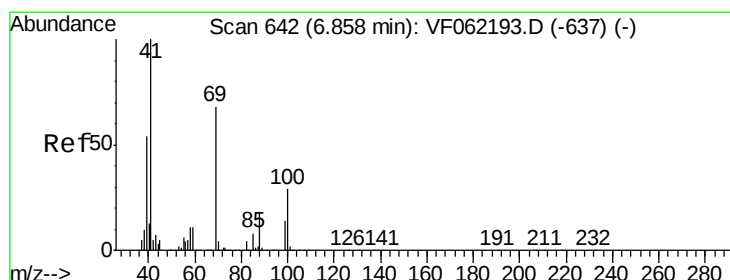
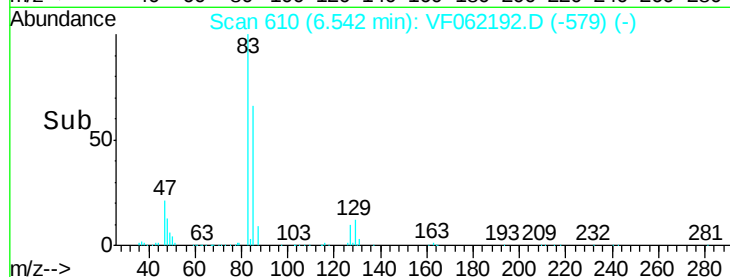
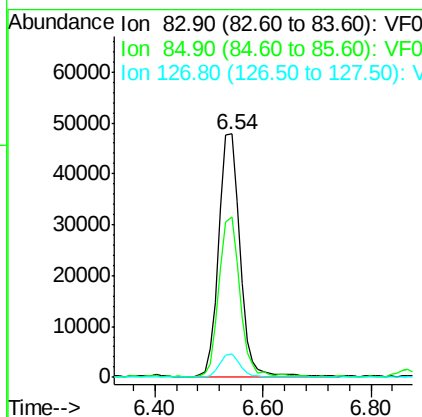
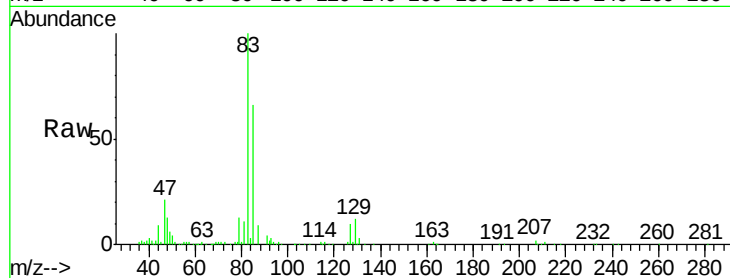
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	131533
Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.2	78.4
127	9.8	6.7	10.1

Manual Integrations
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MMDadoda
4/19/2019 10:53:15 AM



#48

Methyl methacrylate

Concen: 8.061 ug/l

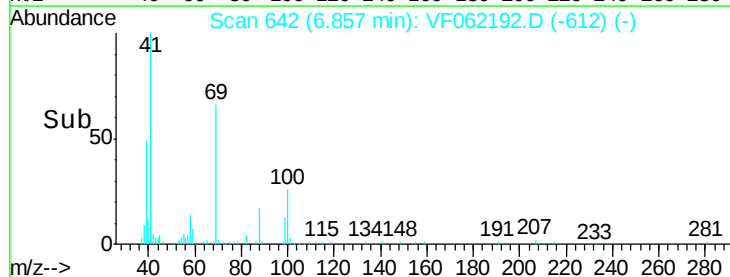
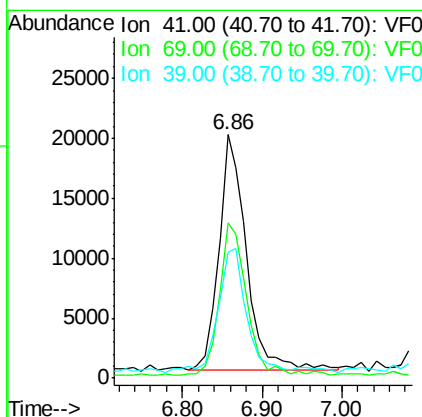
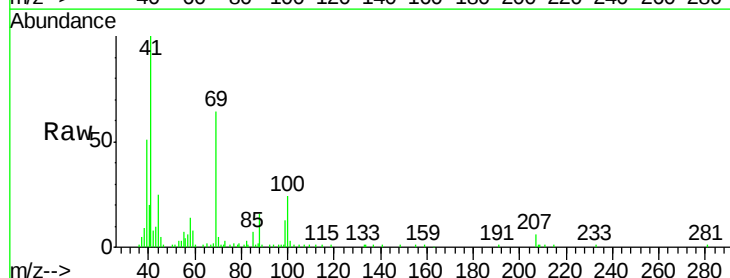
RT: 6.86 min Scan# 642

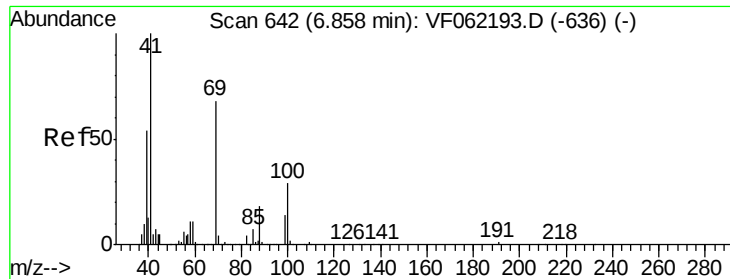
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion:	41	Resp:	47304
Ion	Ratio	Lower	Upper
41	100		
69	62.9	54.9	82.3
39	55.4	43.6	65.4





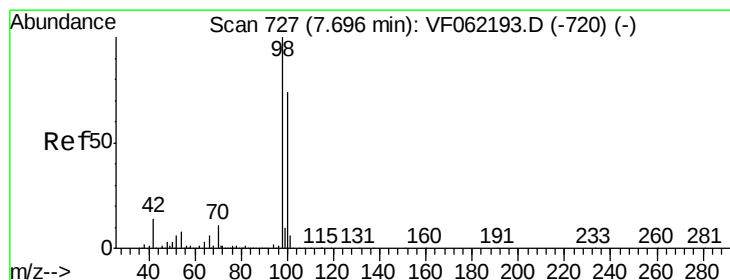
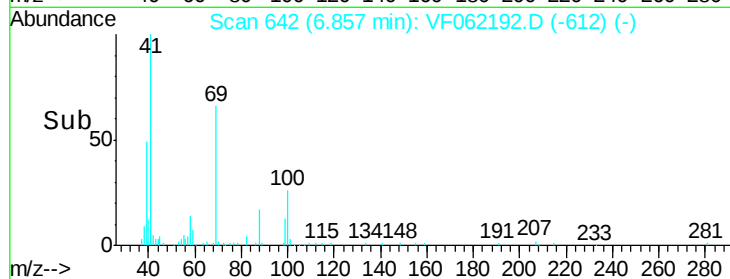
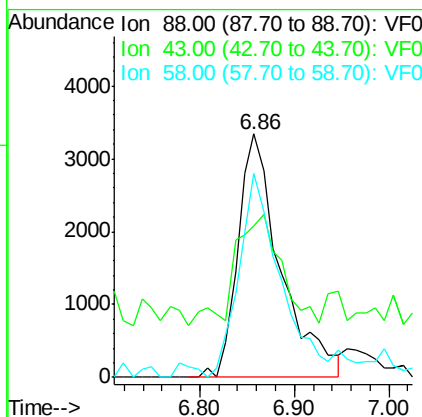
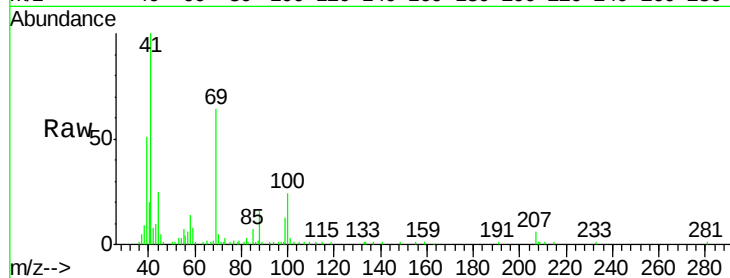
#49
1,4-Dioxane
Concen: 95.730 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	50.6		36.9	55.3
58	81.7		56.8	85.2

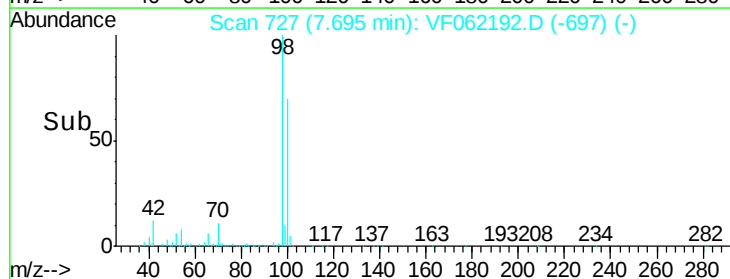
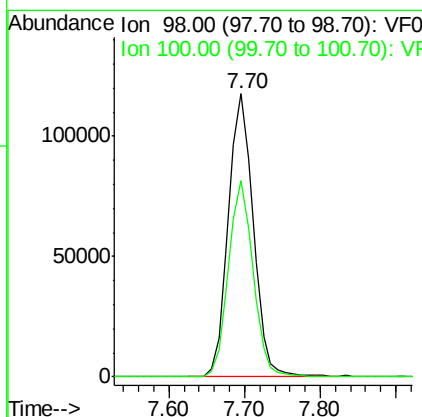
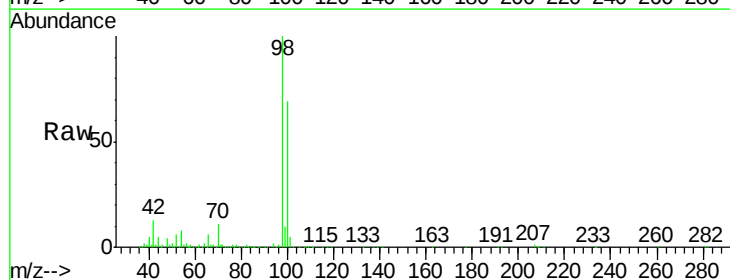
Manual Integrations
APPROVED

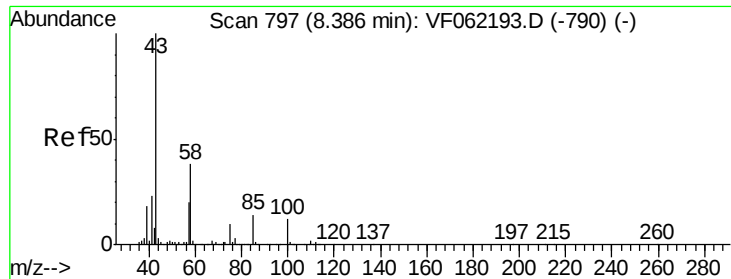
MMDadoda
4/19/2019 10:53:15 AM



#50
Toluene-d8
Concen: 17.418 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	68.5		56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 35.794 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 268994

Ion Ratio Lower Upper

43 100

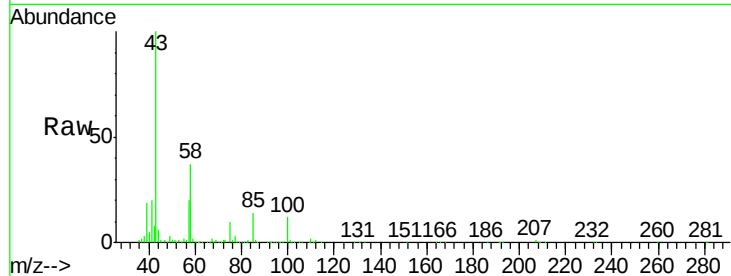
58 36.8 29.3 43.9

Manual Integrations

APPROVED

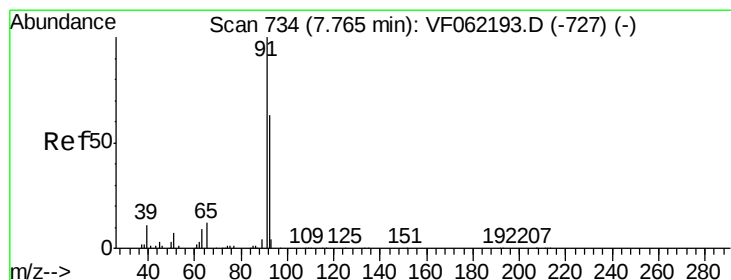
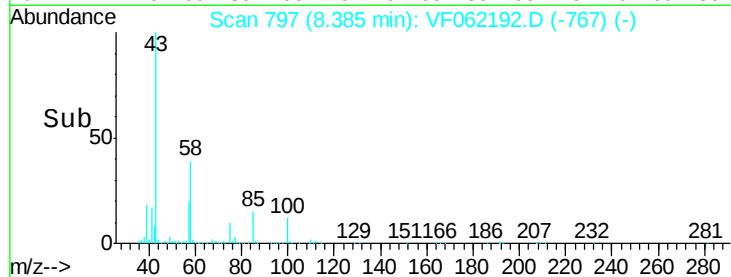
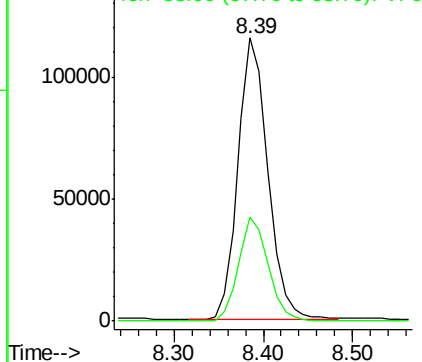
MMDadoda

4/19/2019 10:53:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 18.078 ug/l

RT: 7.76 min Scan# 734

Delta R.T. -0.00 min

Lab File: VF062192.D

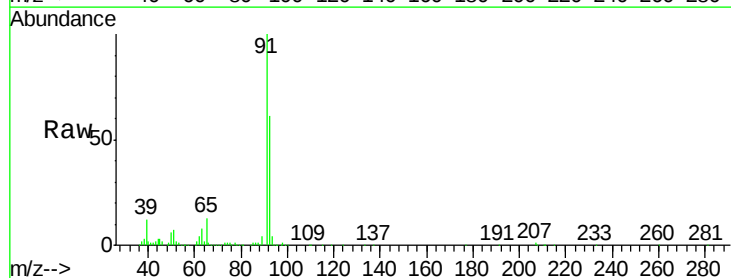
Acq: 17 Apr 2019 18:09

Tgt Ion: 92 Resp: 203274

Ion Ratio Lower Upper

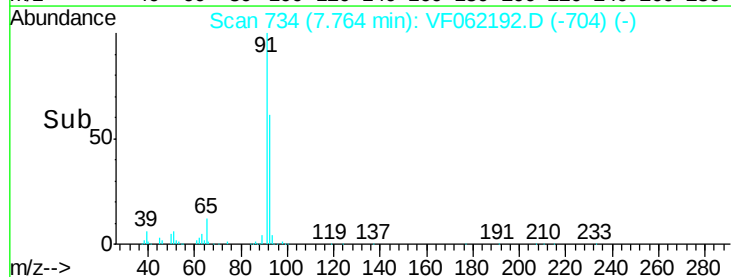
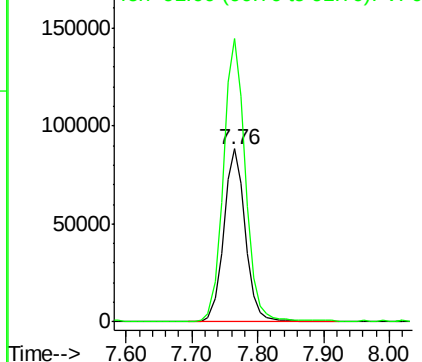
92 100

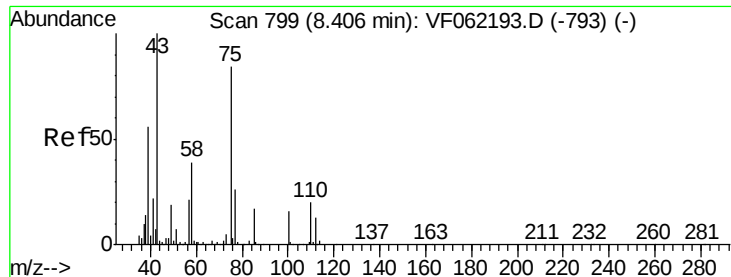
91 164.6 130.1 195.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 15.007 ug/l

RT: 8.40 min Scan# 799

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 97772

Ion Ratio Lower Upper

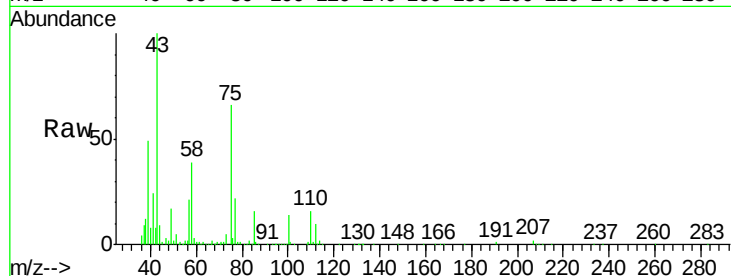
75 100

77 32.7 24.6 36.8

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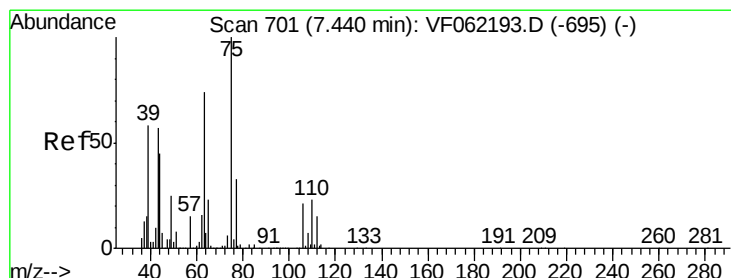
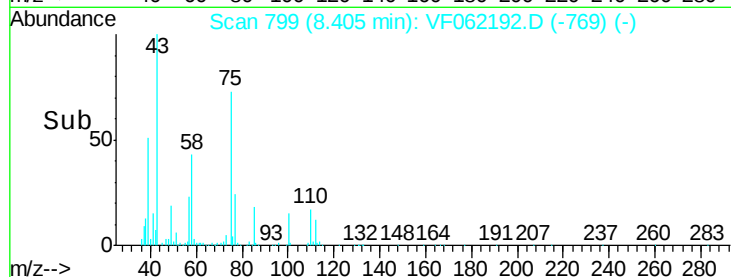
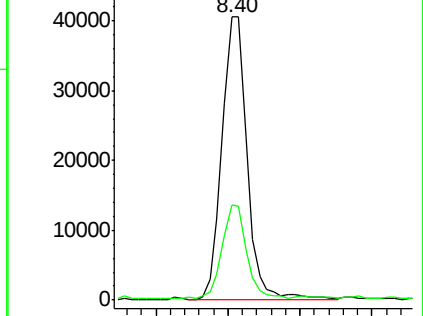
MMDadoda

4/19/2019 10:53:15 AM



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0



#54

cis-1,3-Dichloropropene

Concen: 17.365 ug/l

RT: 7.44 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

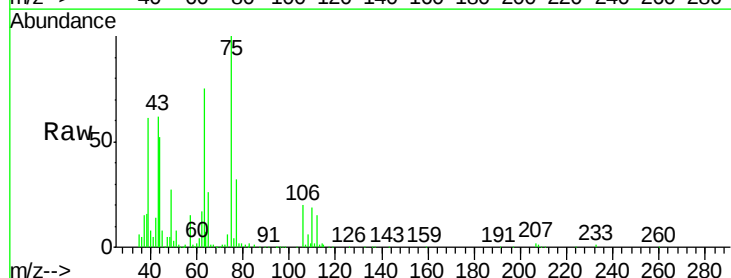
Tgt Ion: 75 Resp: 130361

Ion Ratio Lower Upper

75 100

77 31.9 26.4 39.6

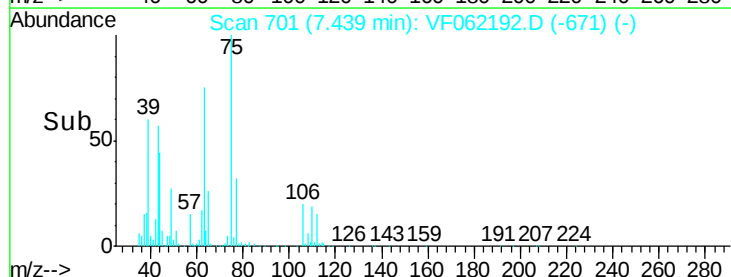
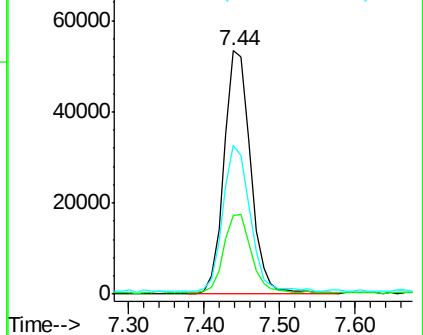
39 59.7 46.7 70.1

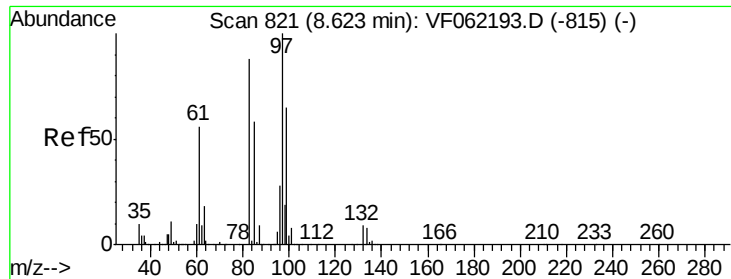


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 76.90 (76.60 to 77.60): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 13.470 ug/l

RT: 8.62 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

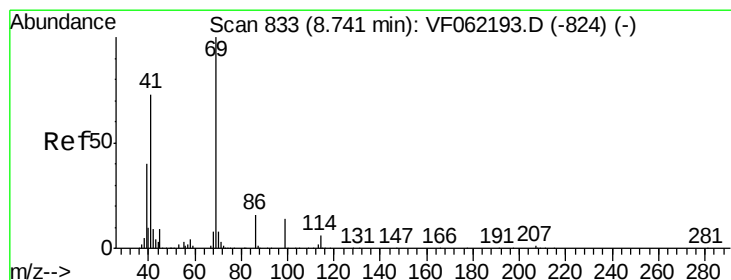
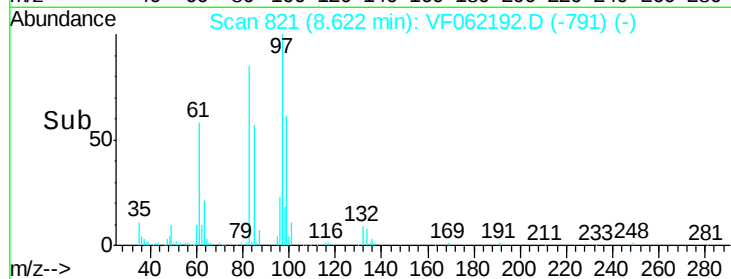
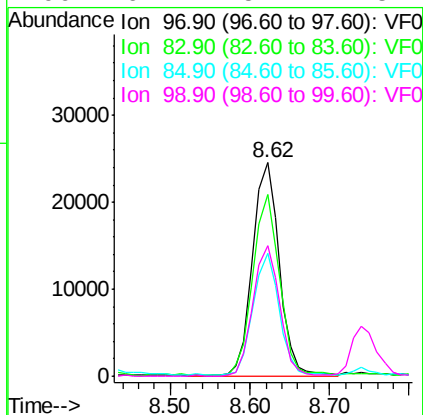
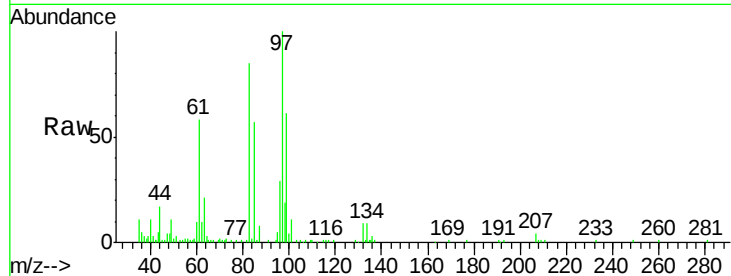
ClientSampleId :

VSTDIC020

Tot Ion:	97	Resp:	57081
Ion	Ratio	Lower	Upper
97	100		
83	84.3	70.2	105.2
85	56.8	46.2	69.4
99	61.2	52.2	78.4

Manual Integrations
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#56

Ethyl methacrylate

Concen: 8.251 ug/l

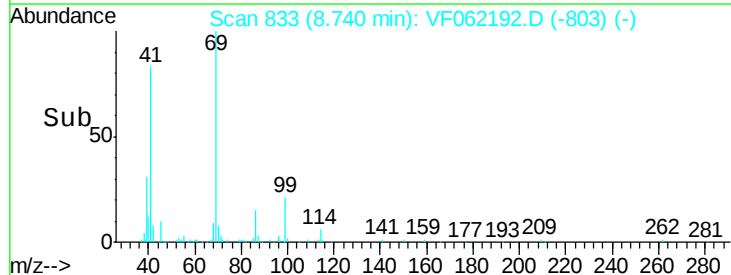
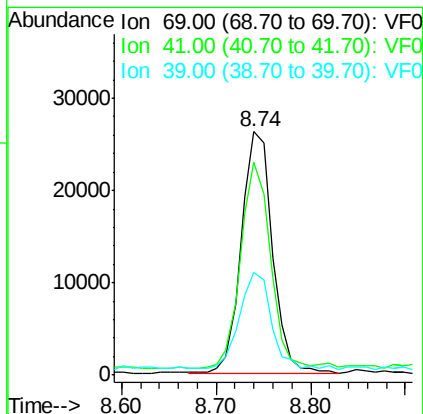
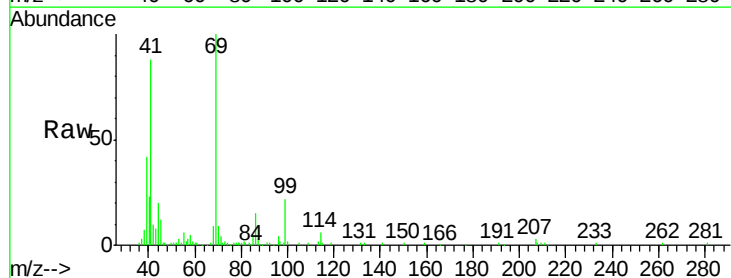
RT: 8.74 min Scan# 833

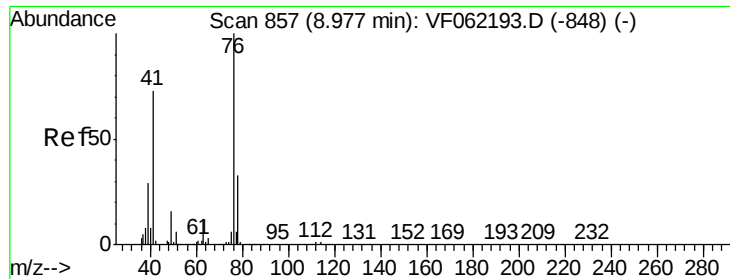
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion:	69	Resp:	59705
Ion	Ratio	Lower	Upper
69	100		
41	81.4	61.5	92.3
39	42.2	33.3	49.9





#57

1,3-Dichloropropane

Concen: 12.191 ug/l

RT: 8.98 min Scan# 857

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 91040

Ion Ratio Lower Upper

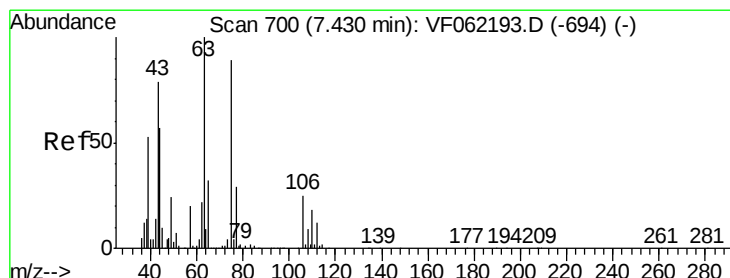
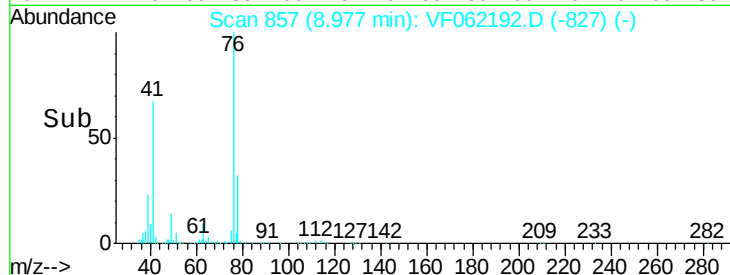
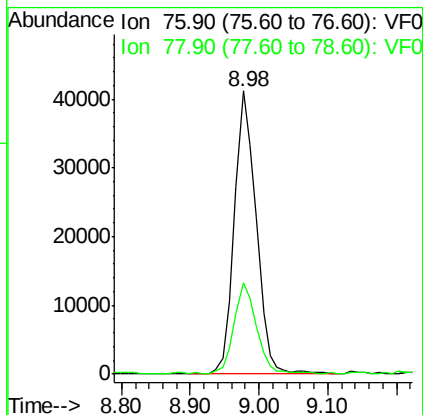
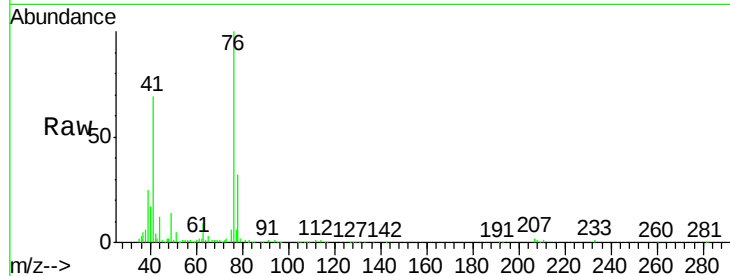
76 100

78 33.7 26.5 39.7

Manual Integrations
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4/19/2019 10:53:15 AM



#58

2-Chloroethyl Vinyl ether

Concen: 25.218 ug/l

RT: 7.44 min Scan# 701

Delta R.T. 0.01 min

Lab File: VF062192.D

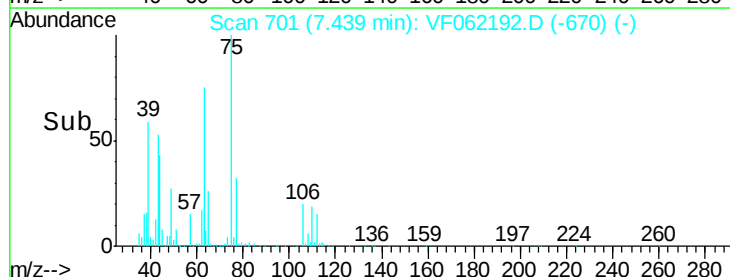
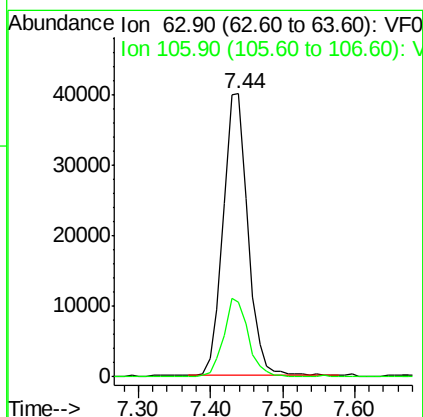
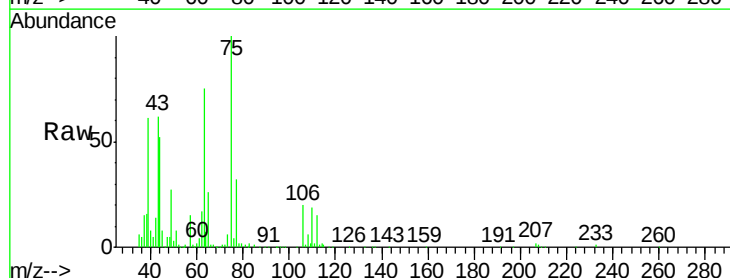
Acq: 17 Apr 2019 18:09

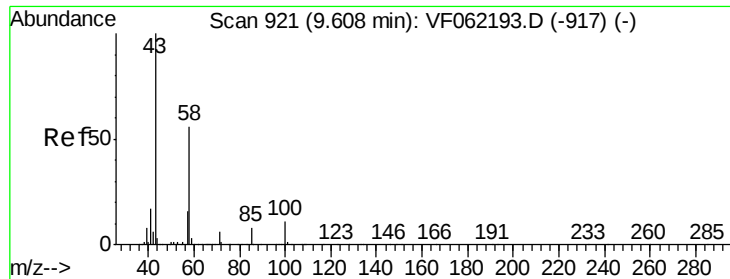
Tgt Ion: 63 Resp: 95284

Ion Ratio Lower Upper

63 100

106 27.7 21.4 32.0





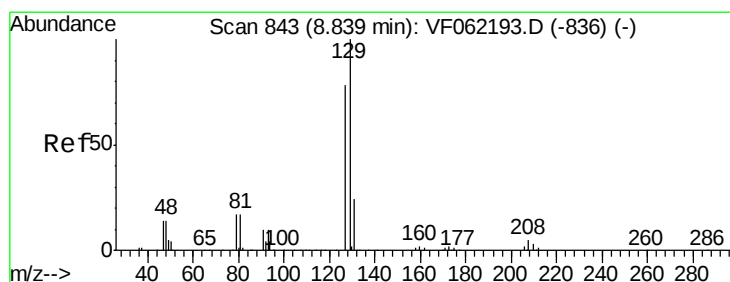
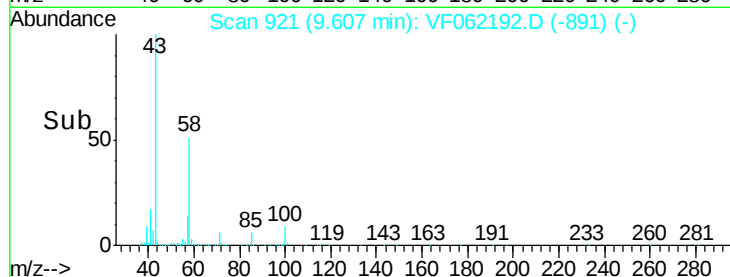
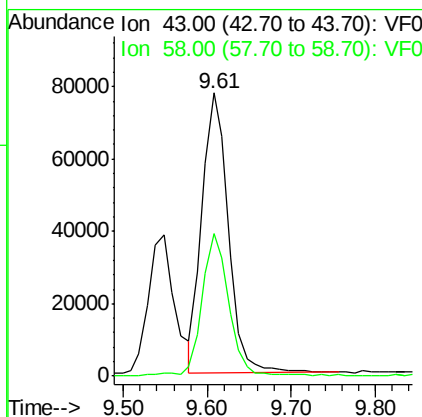
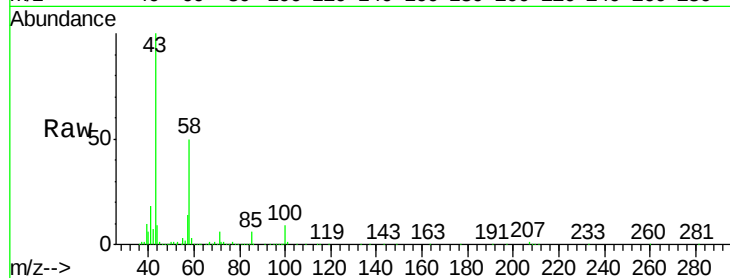
#59
2-Hexanone
Concen: 29.252 ug/l
RT: 9.61 min Scan# 921
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 167718
Ion Ratio Lower Upper
43 100
58 51.7 24.6 74.0

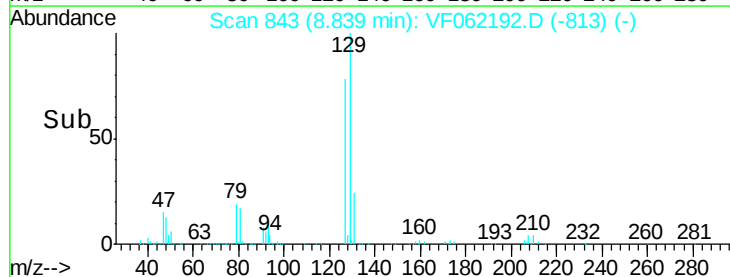
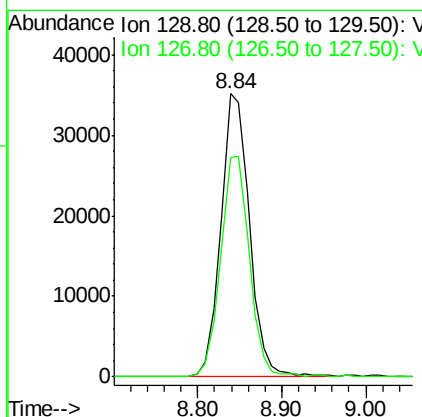
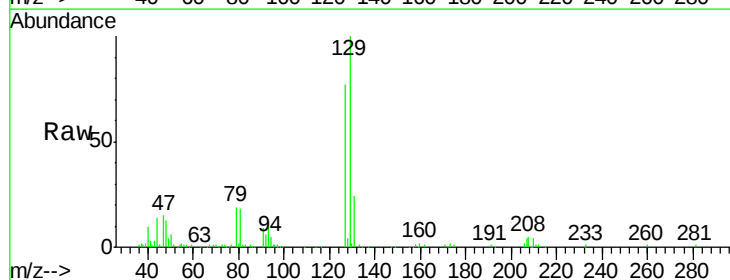
Manual Integrations
APPROVED

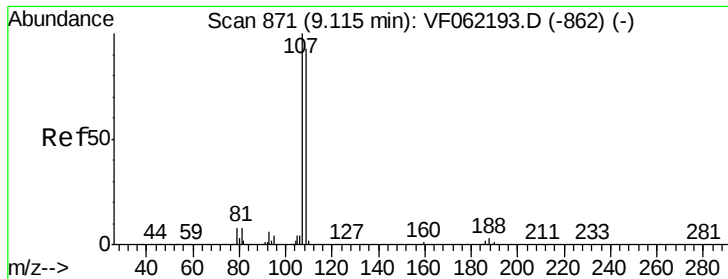
MMDadoda
4/19/2019 10:53:15 AM



#60
Dibromochloromethane
Concen: 19.429 ug/l
RT: 8.84 min Scan# 843
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion: 129 Resp: 83227
Ion Ratio Lower Upper
129 100
127 78.6 39.0 117.0





#61

1,2-Dibromoethane

Concen: 14.484 ug/l

RT: 9.11 min Scan# 871

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 107 Resp: 63859

Ion Ratio Lower Upper

107 100

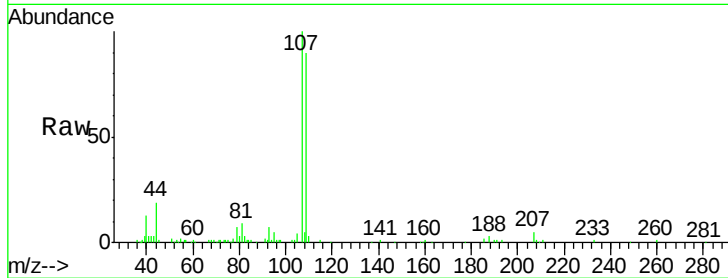
109 93.9 74.3 111.5

Manual Integrations

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MMDadoda

4/19/2019 10:53:15 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.11

30000

25000

20000

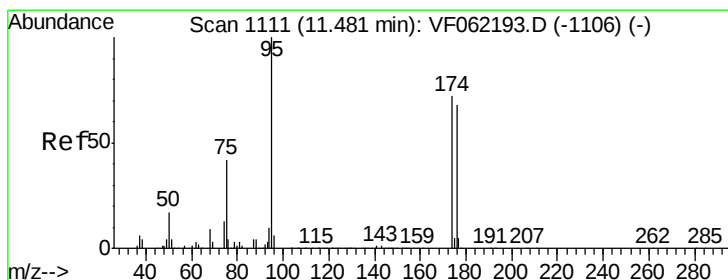
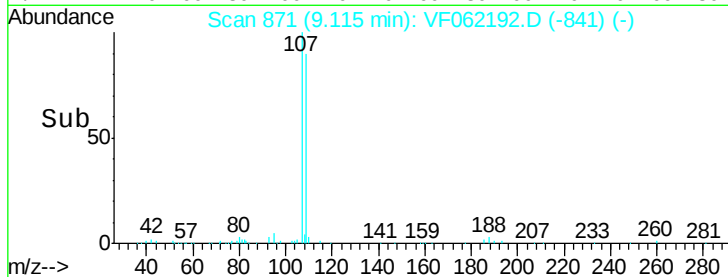
15000

10000

5000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 19.022 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

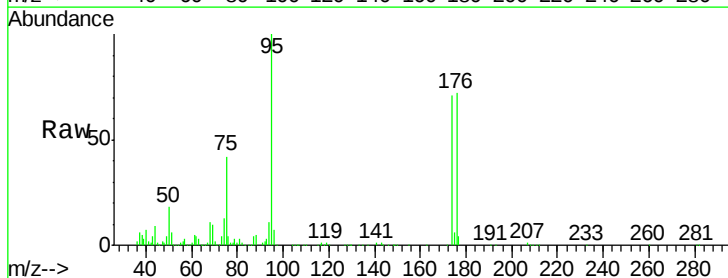
Tgt Ion: 95 Resp: 104512

Ion Ratio Lower Upper

95 100

174 81.7 0.0 159.4

176 81.0 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.48

80000

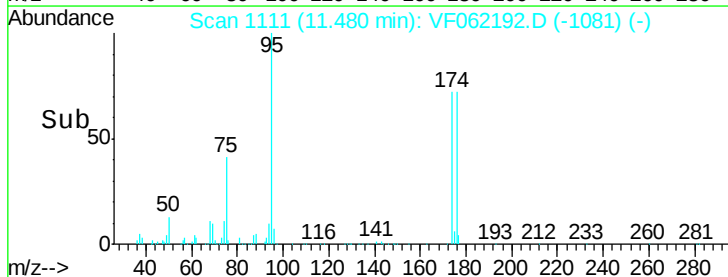
60000

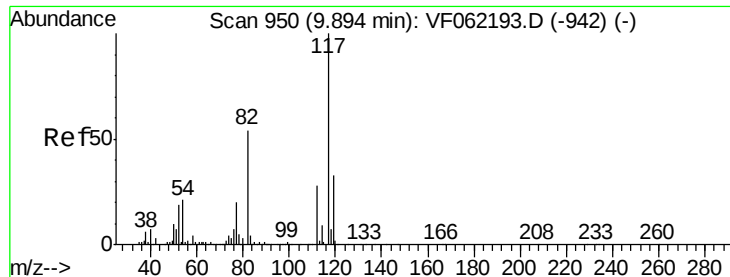
40000

20000

0

Time-->





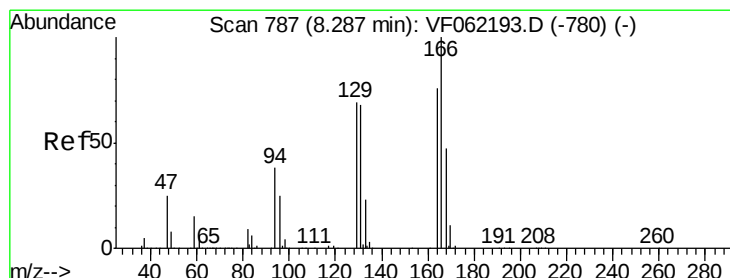
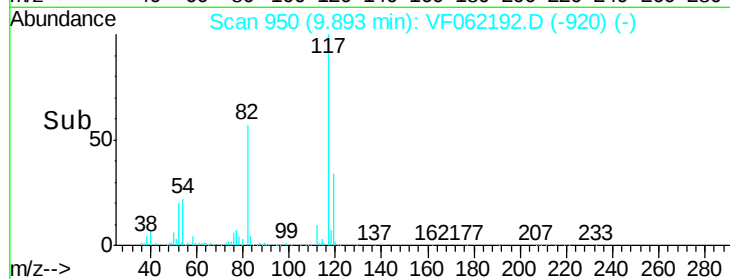
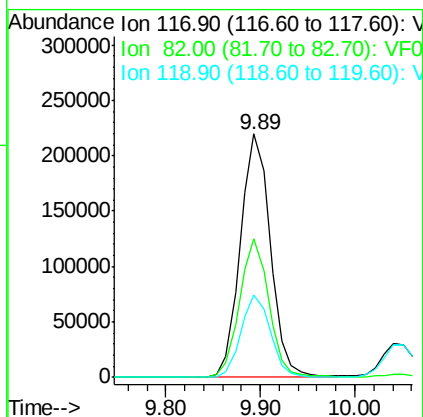
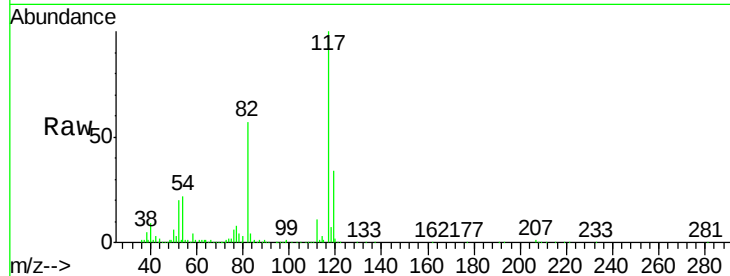
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.89 min Scan# 950
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	485931		
82	57.1		43.2	64.8
119	34.0		26.2	39.4

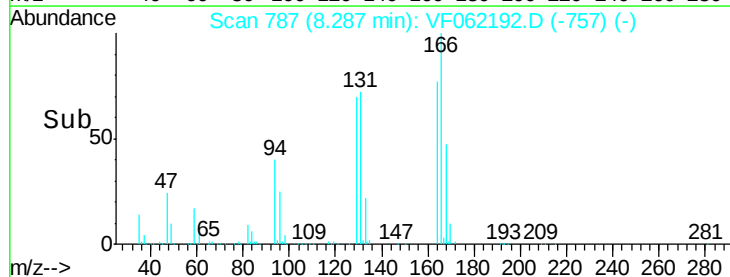
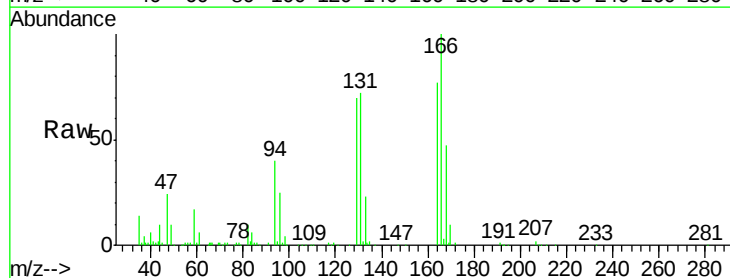
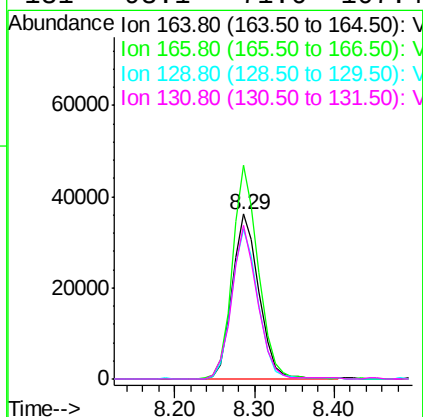
Manual Integrations
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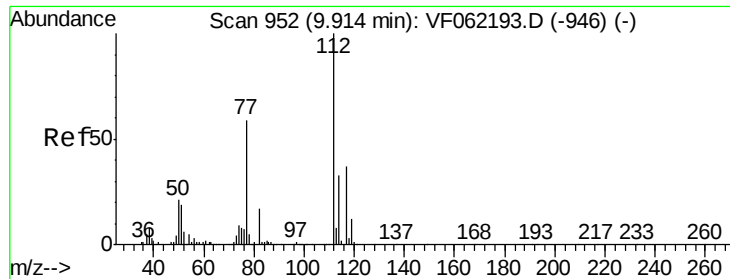
MMDadoda
4/19/2019 10:53:15 AM



#64
Tetrachloroethene
Concen: 22.088 ug/l
RT: 8.29 min Scan# 787
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	84716		
166	129.3		104.7	157.1
129	91.0		72.6	109.0
131	93.1		71.6	107.4





#65

Chlorobenzene

Concen: 19.597 ug/l

RT: 9.91 min Scan# 952

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:112 Resp: 204934

Ion Ratio Lower Upper

112 100

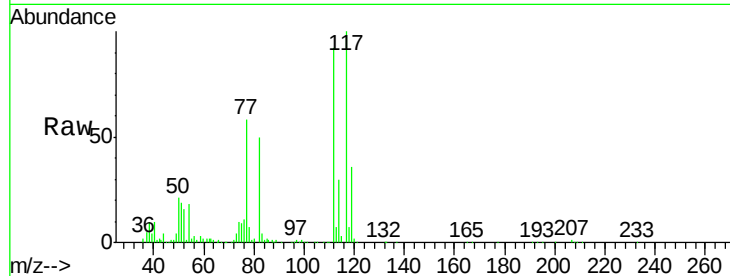
114 32.6 26.1 39.1

Manual Integrations

APPROVED

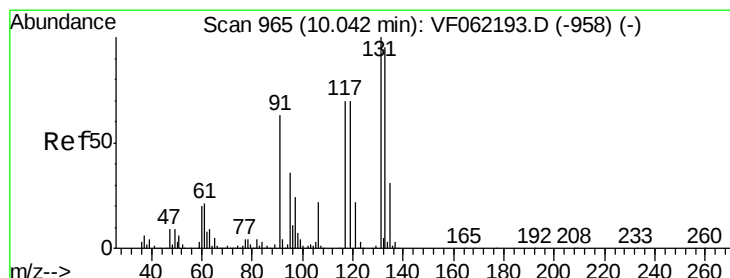
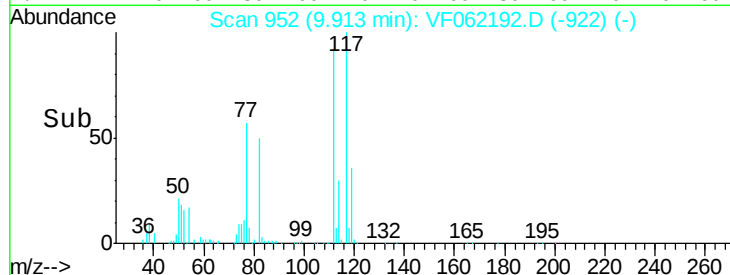
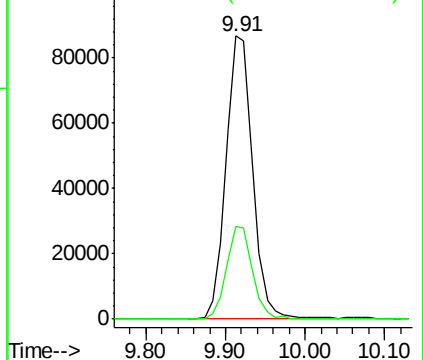
MMDadoda

4/19/2019 10:53:15 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 24.901 ug/l

RT: 10.05 min Scan# 966

Delta R.T. 0.01 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

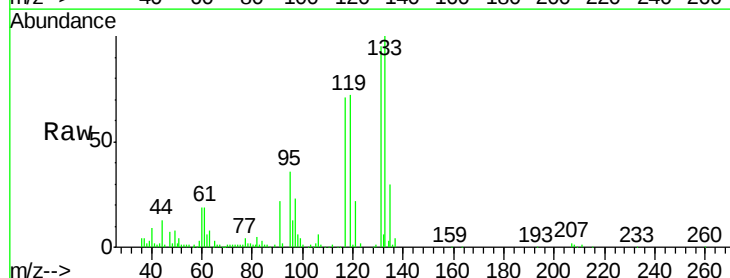
Tgt Ion:131 Resp: 95477

Ion Ratio Lower Upper

131 100

133 101.0 47.7 143.1

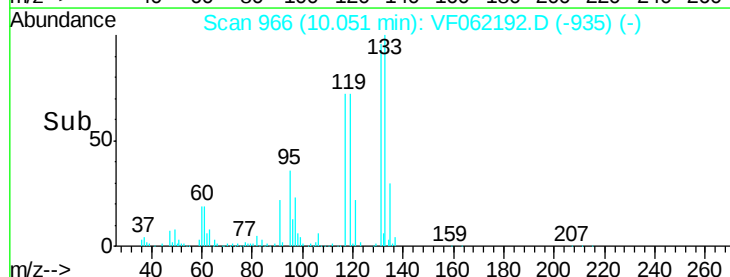
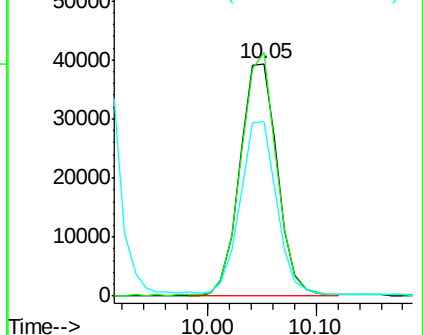
119 73.6 34.6 103.9

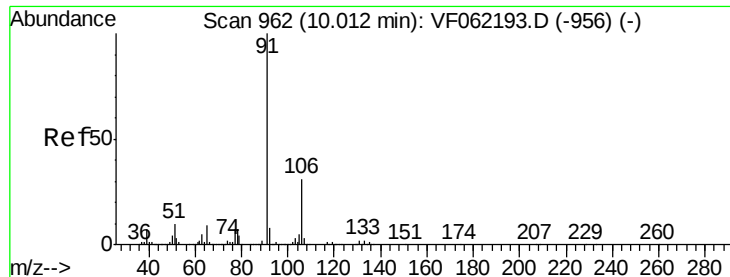


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 20.175 ug/l

RT: 10.01 min Scan# 962

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 379869

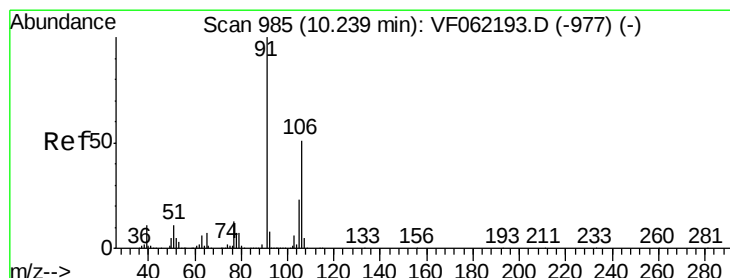
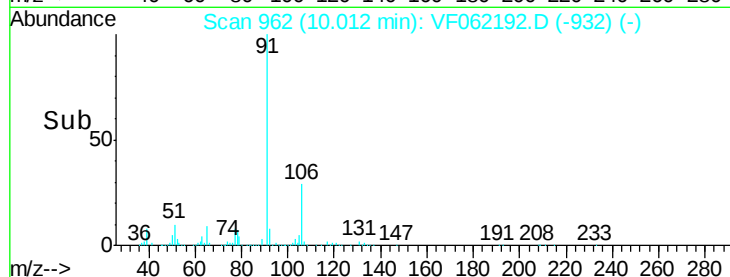
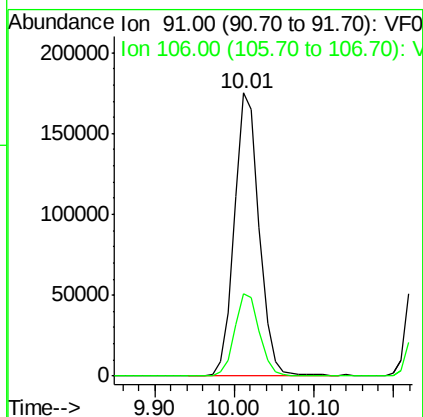
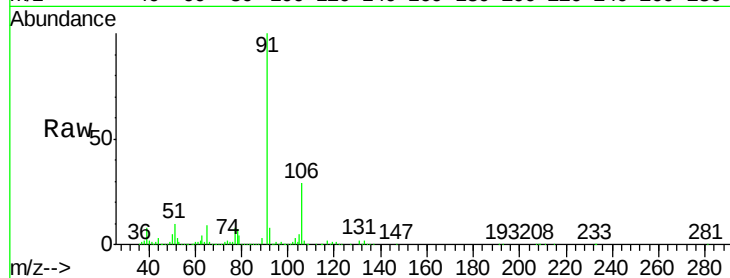
Ion Ratio Lower Upper

91 100

106 29.1 24.9 37.3

Manual Integrations
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#68

m/p-Xylenes

Concen: 39.741 ug/l

RT: 10.25 min Scan# 986

Delta R.T. 0.01 min

Lab File: VF062192.D

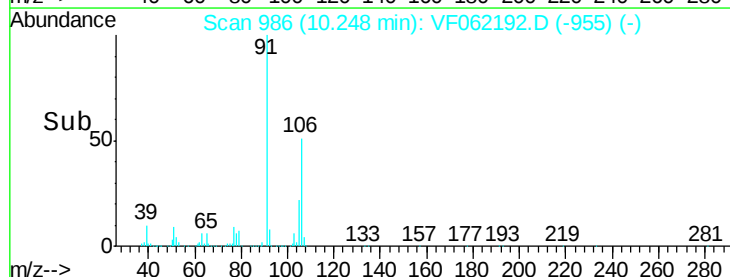
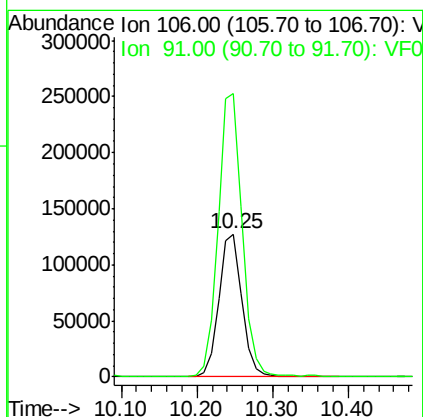
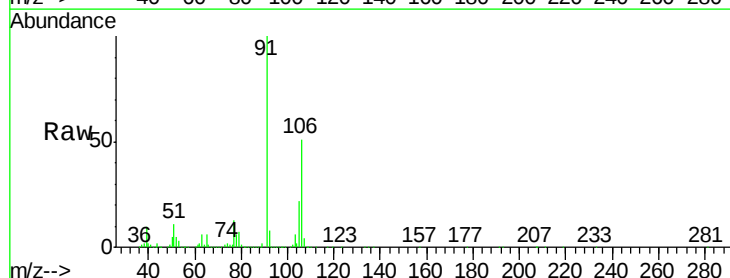
Acq: 17 Apr 2019 18:09

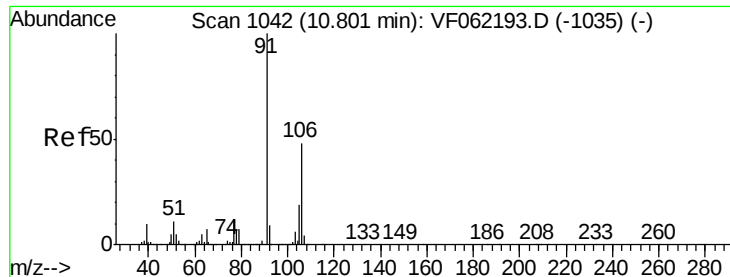
Tgt Ion: 106 Resp: 272253

Ion Ratio Lower Upper

106 100

91 203.8 159.1 238.7





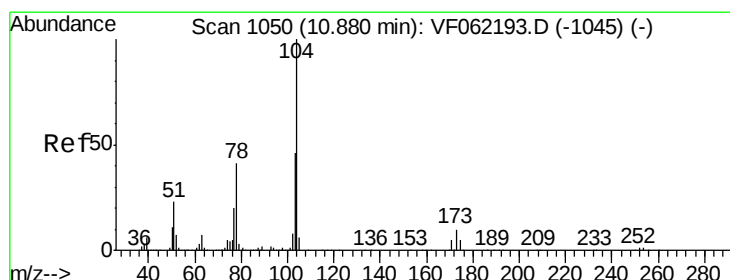
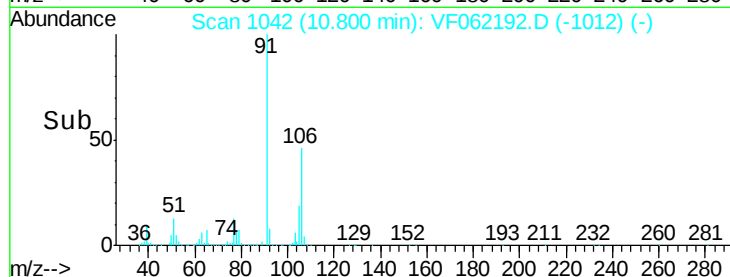
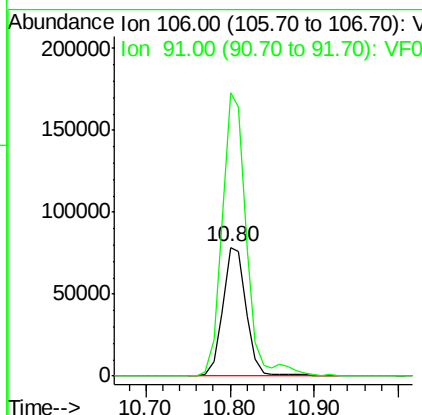
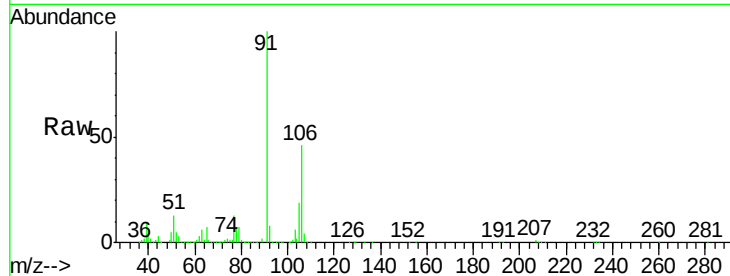
#69
o-Xylene
Concen: 21.940 ug/l
RT: 10.80 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
106	100		
91	219.9	107.5	322.4

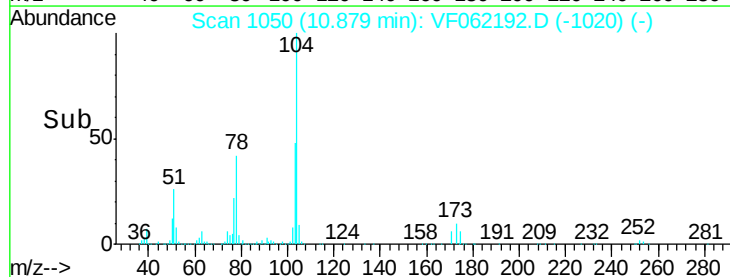
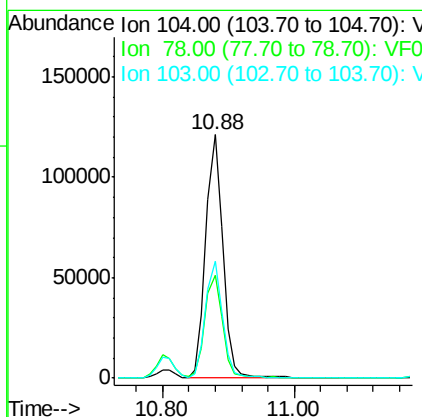
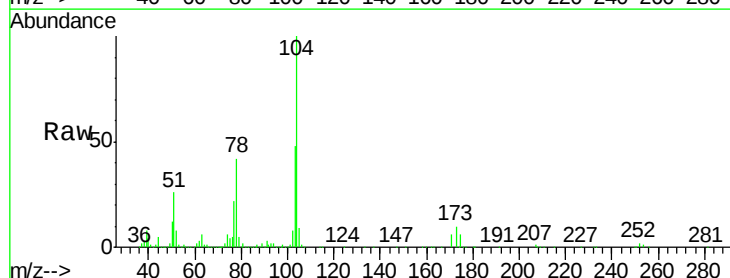
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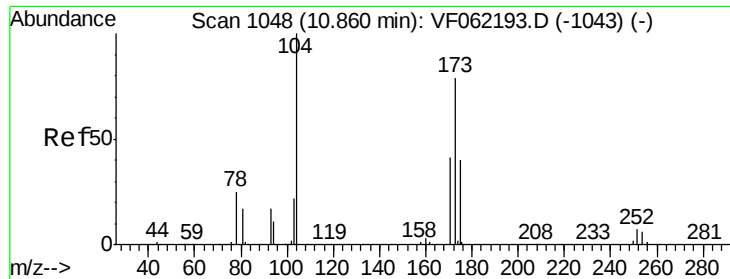
MMDadoda
4/19/2019 10:53:15 AM



#70
Styrene
Concen: 18.710 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
104	100		
78	42.7	34.5	51.7
103	47.3	37.2	55.8





#71

Bromoform

Concen: 17.074 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. 0.01 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

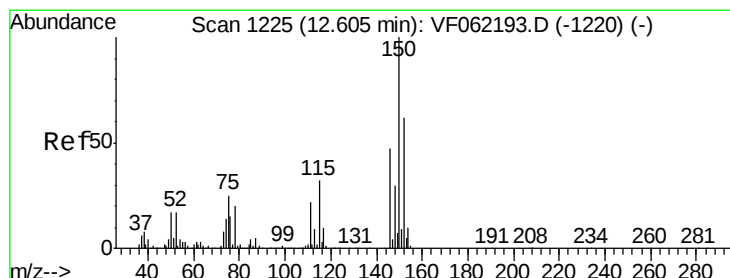
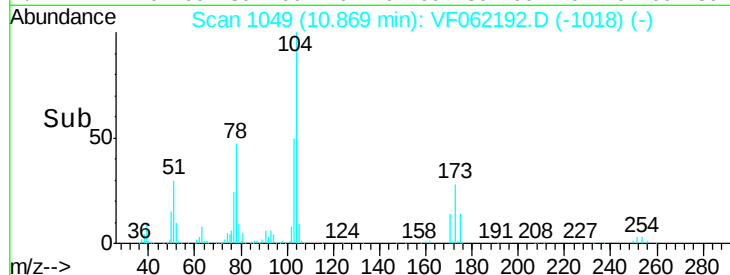
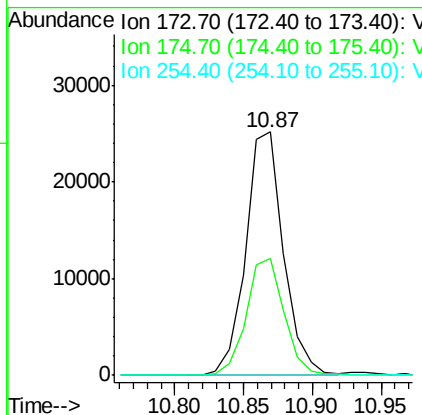
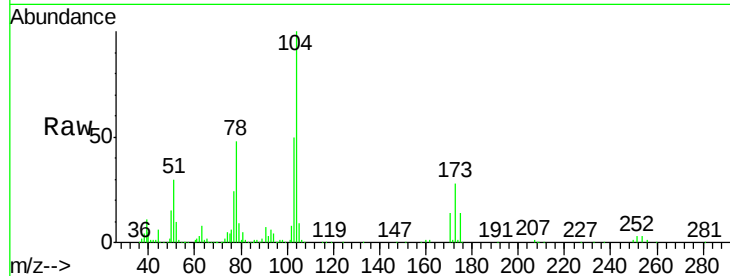
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.5	73.5
254	0.0	0.1	0.1#

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4/19/2019 10:53:15 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

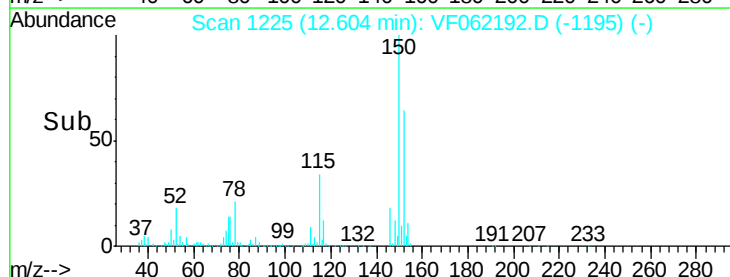
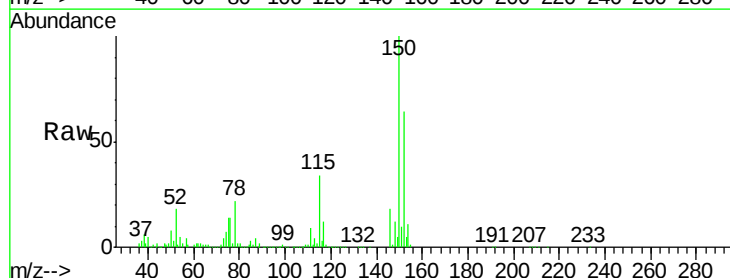
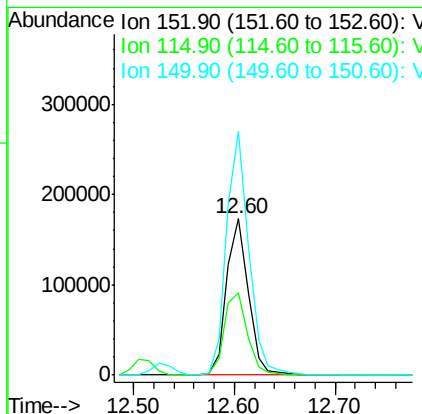
RT: 12.60 min Scan# 1225

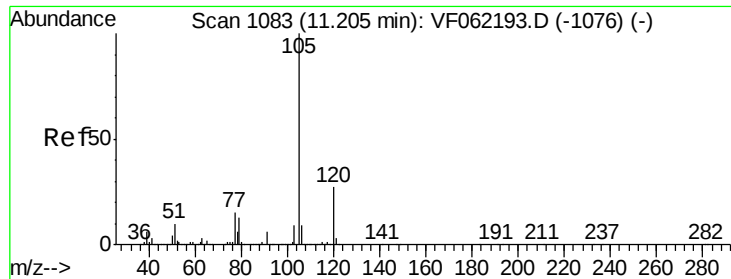
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.7	27.8	83.3
150	158.8	0.0	341.8





#73

Isopropylbenzene

Concen: 22.278 ug/l

RT: 11.20 min Scan# 1083

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 453388

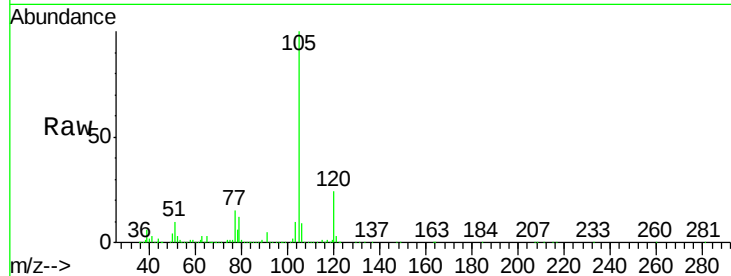
Ion Ratio Lower Upper

105 100

120 24.4 13.0 38.9

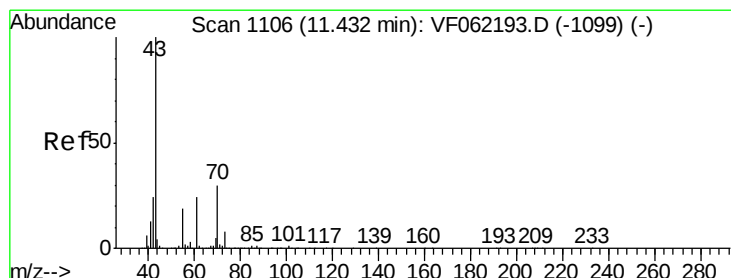
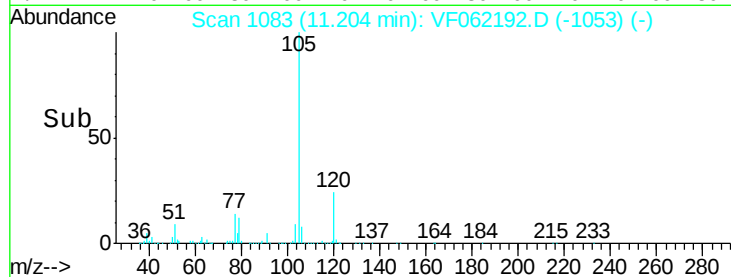
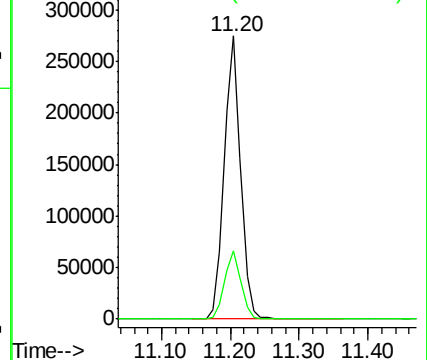
Manual Integrations
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4/19/2019 10:53:15 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 11.025 ug/l

RT: 11.44 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion: 43 Resp: 114353

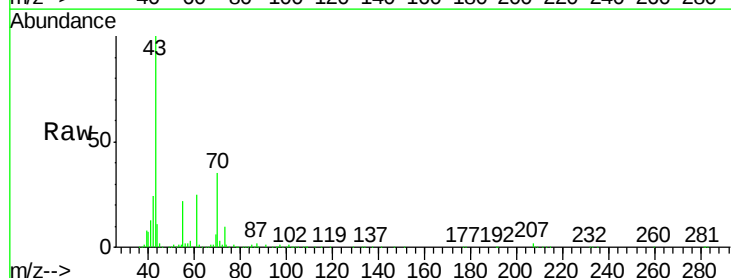
Ion Ratio Lower Upper

43 100

70 35.2 27.0 40.4

55 20.7 15.7 23.5

61 24.9 20.8 31.2

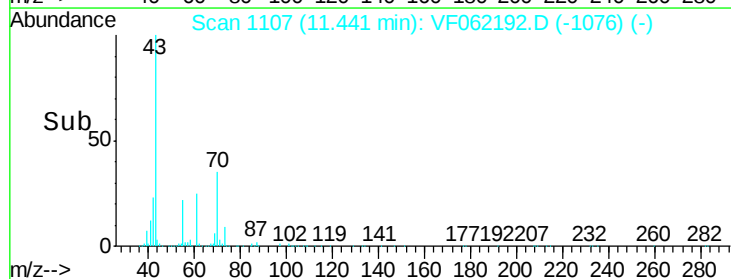
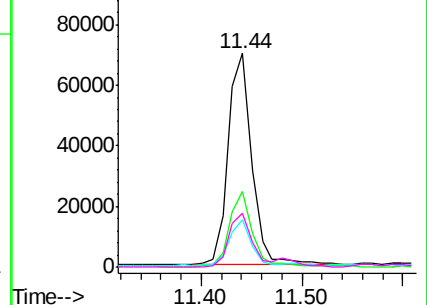


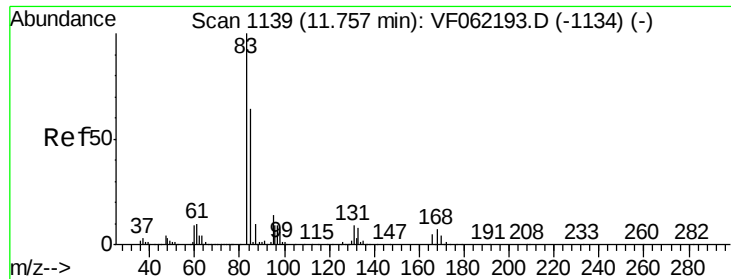
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 11.003 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

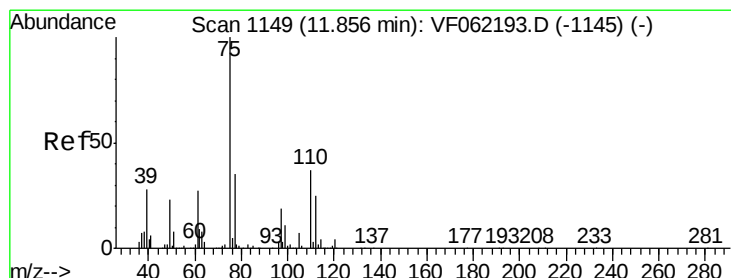
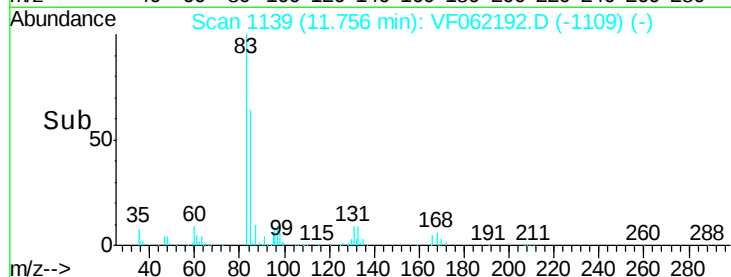
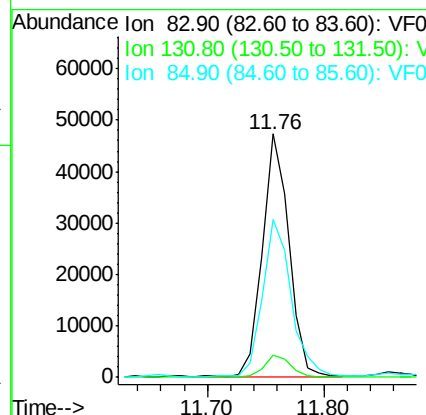
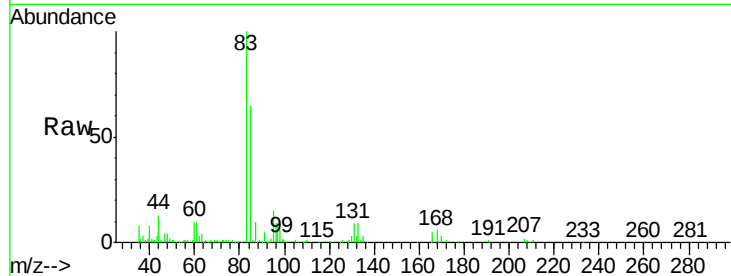
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	74030
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.5	13.5
85	71.8	34.7	104.1

Manual Integrations
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MMDadoda
4/19/2019 10:53:15 AM



#76

1,2,3-Trichloropropane

Concen: 8.773 ug/l

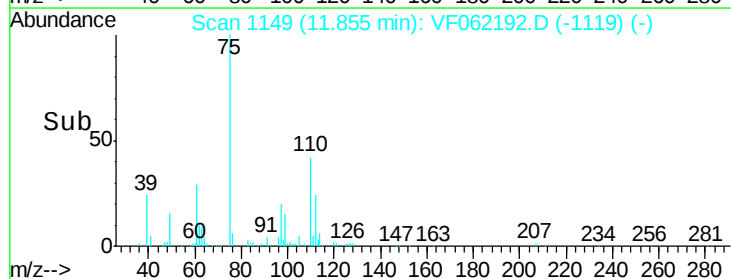
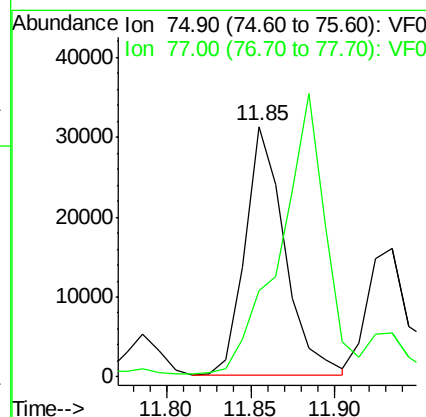
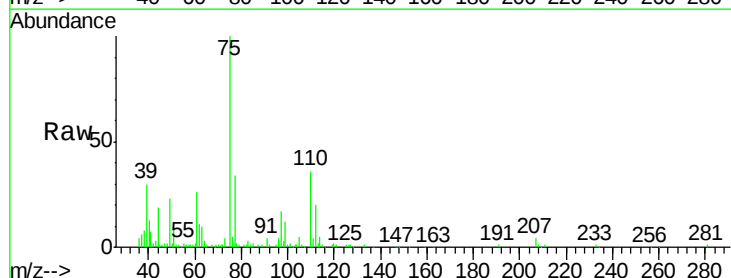
RT: 11.85 min Scan# 1149

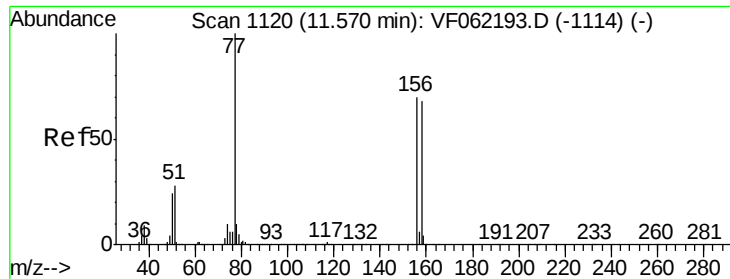
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion:	75	Resp:	51002
Ion Ratio	Lower	Upper	
75	100		
77	0.0	7.4	22.2#





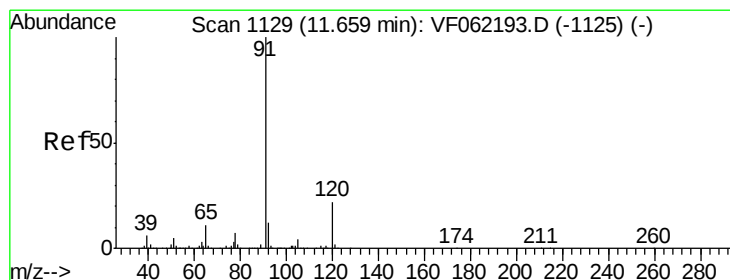
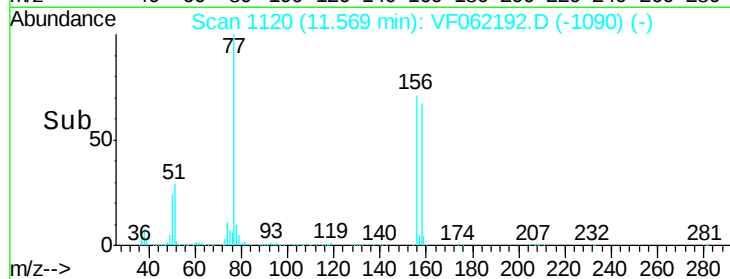
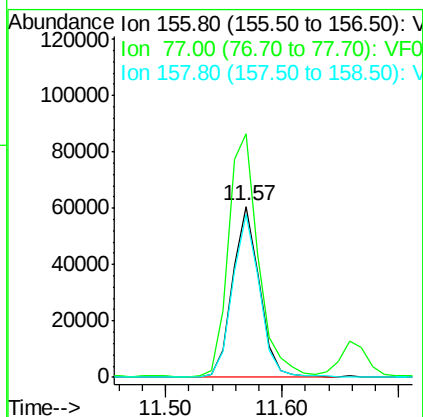
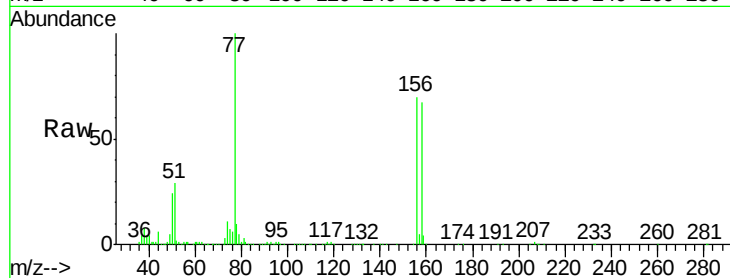
#77
Bromobenzene
Concen: 19.361 ug/l
RT: 11.57 min Scan# 1120
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
156	100		
77	157.4	80.9	242.7
158	96.6	49.8	149.4

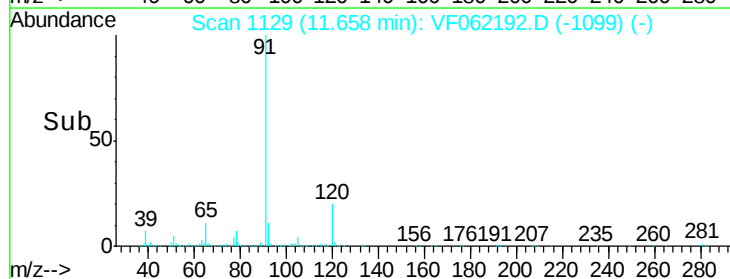
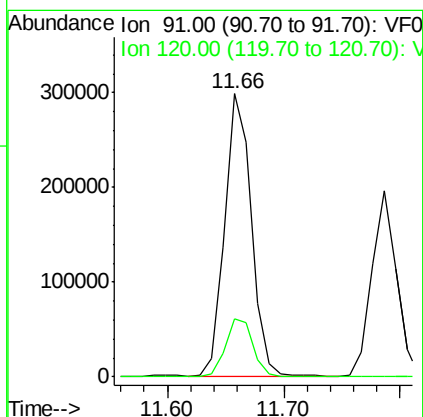
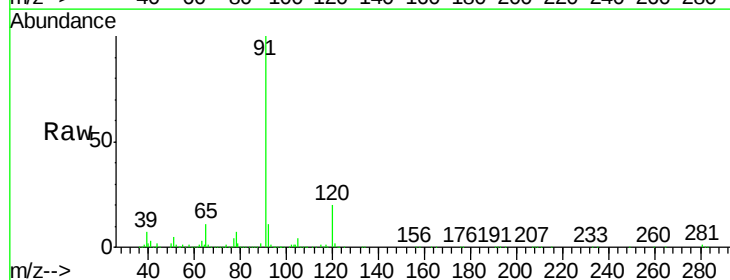
Manual Integrations
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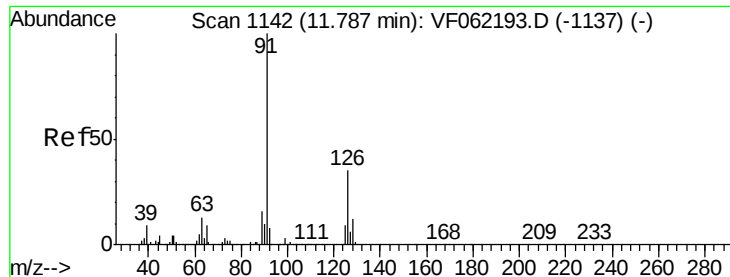
MMDadoda
4/19/2019 10:53:15 AM



#78
n-propylbenzene
Concen: 20.784 ug/l
RT: 11.66 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.4	11.2	33.6





#79

2-Chlorotoluene

Concen: 20.998 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 290975

Ion Ratio Lower Upper

91 100

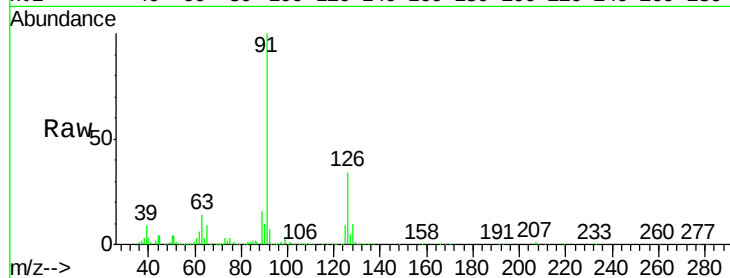
126 33.6 16.9 50.6

Manual Integrations

APPROVED

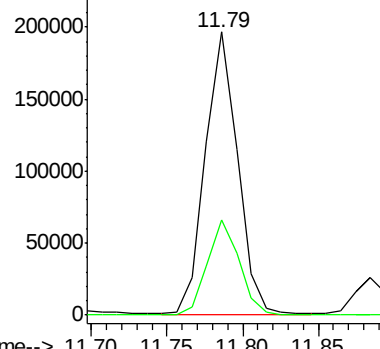
MMDadoda

4/19/2019 10:53:15 AM

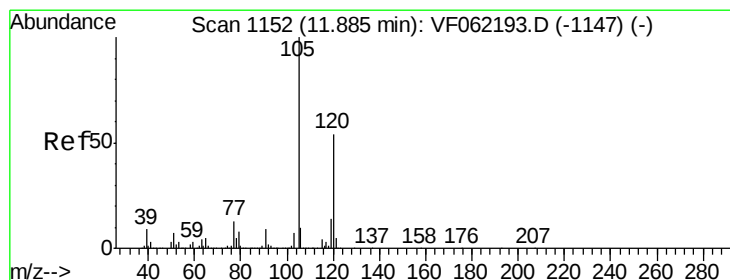
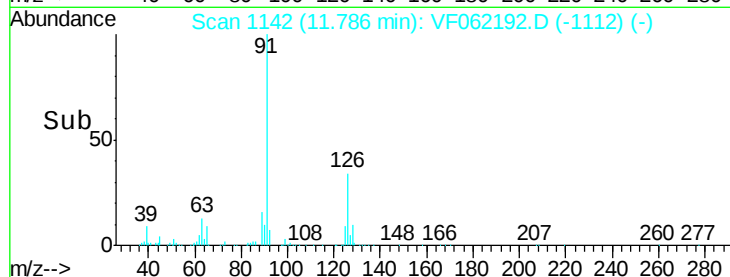


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



Time--> 11.70 11.75 11.80 11.85



#80

1,3,5-Trimethylbenzene

Concen: 22.249 ug/l

RT: 11.88 min Scan# 1152

Delta R.T. -0.00 min

Lab File: VF062192.D

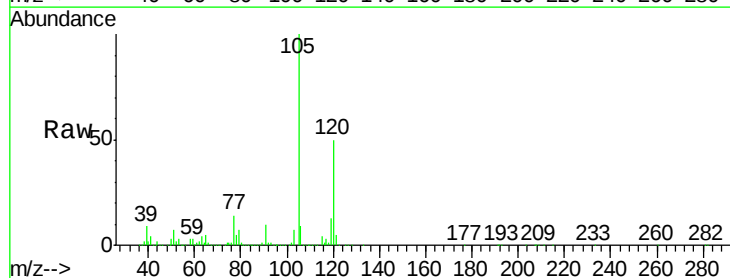
Acq: 17 Apr 2019 18:09

Tgt Ion: 105 Resp: 378412

Ion Ratio Lower Upper

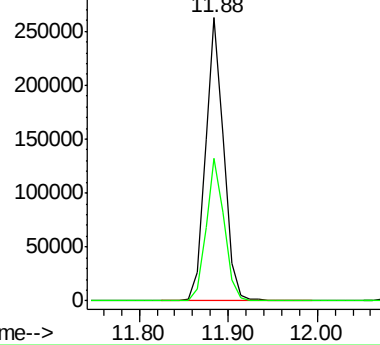
105 100

120 50.0 26.2 78.5

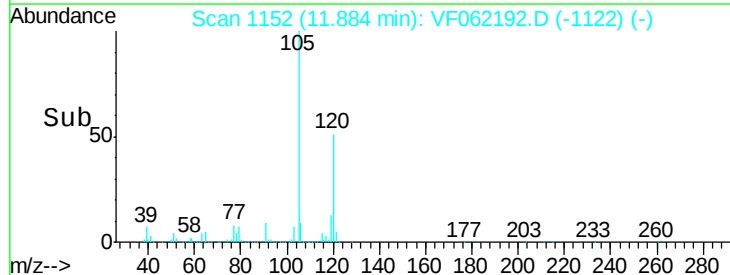


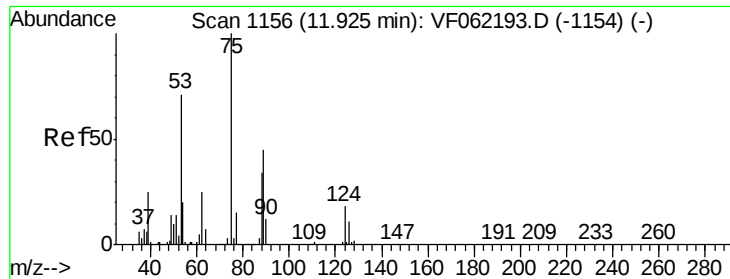
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



Time--> 11.80 11.90 12.00





#81

trans-1,4-Dichloro-2-butene

Concen: 12.065 ug/l m

RT: 11.93 min Scan# 1157

Delta R.T. 0.01 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

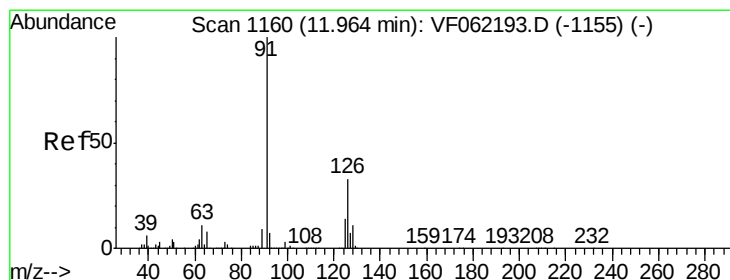
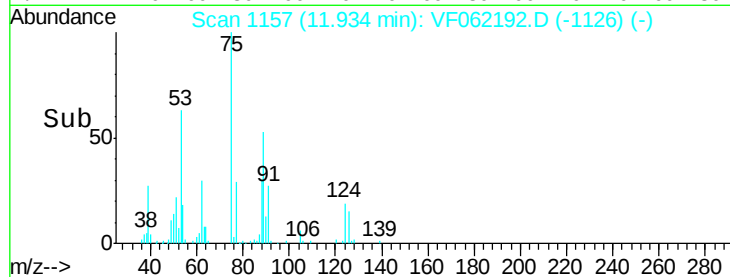
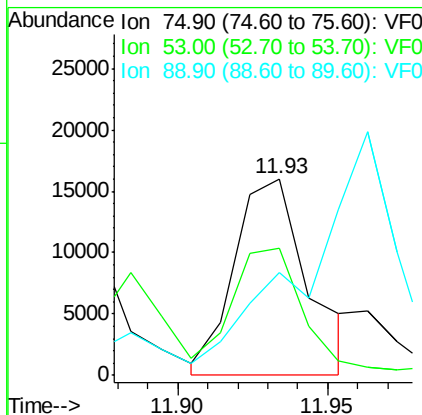
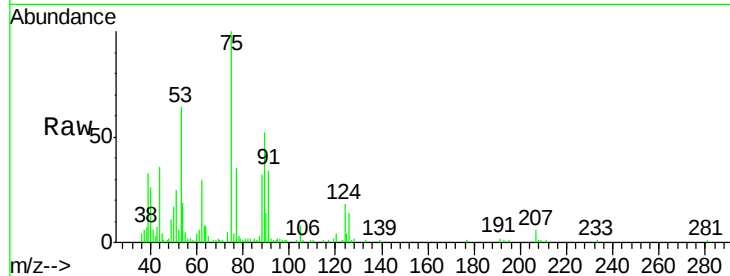
ClientSampled :

VSTDIC020

Tot Ion:	75	Resp:	27452
Ion Ratio	Lower	Upper	
75	100		
53	63.7	50.2	75.4
89	0.0	0.0	0.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 17.707 ug/l

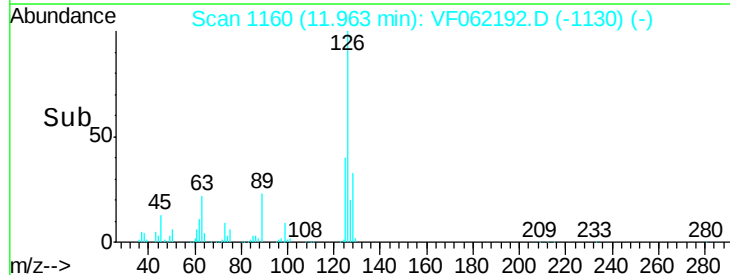
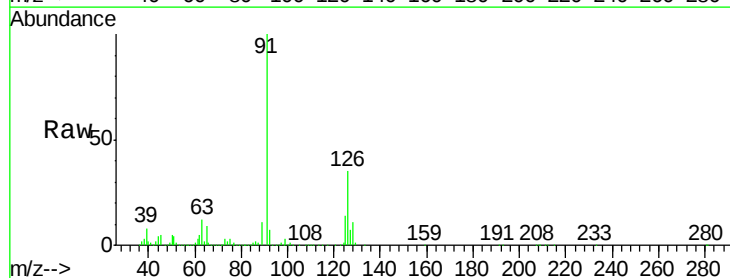
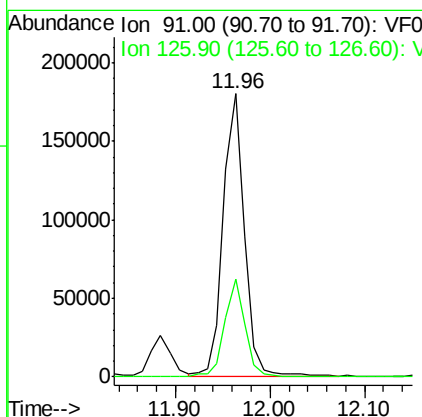
RT: 11.96 min Scan# 1160

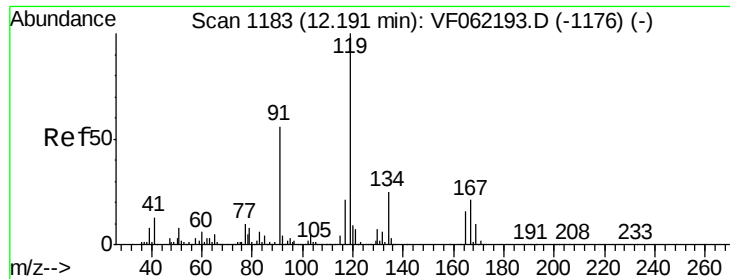
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion:	91	Resp:	275894
Ion Ratio	Lower	Upper	
91	100		
126	33.9	16.9	50.6





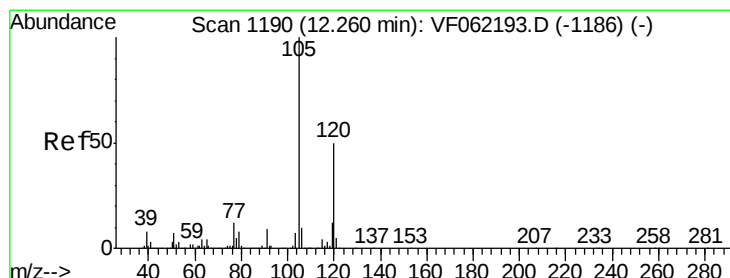
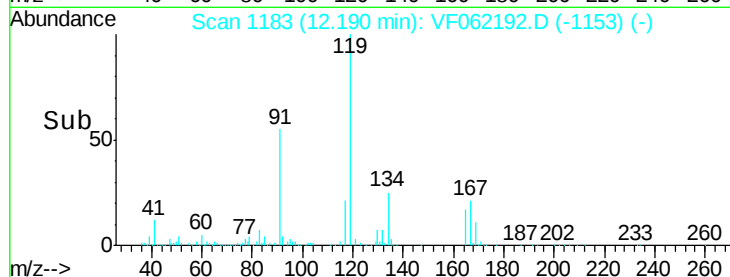
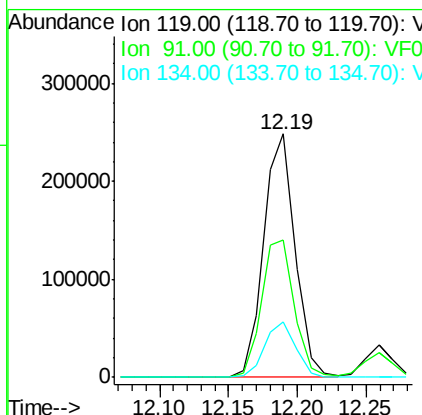
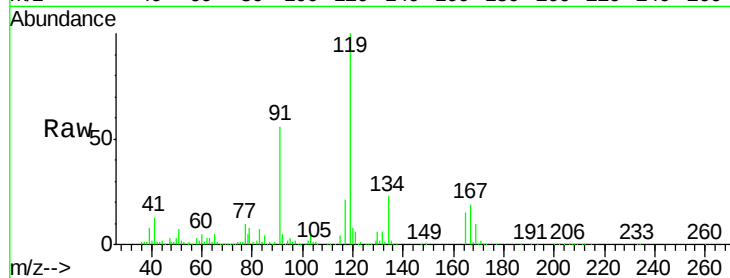
#83
tert-Butylbenzene
Concen: 23.732 ug/l
RT: 12.19 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	394162		
91	58.4	29.4	88.2	
134	22.5	11.8	35.3	

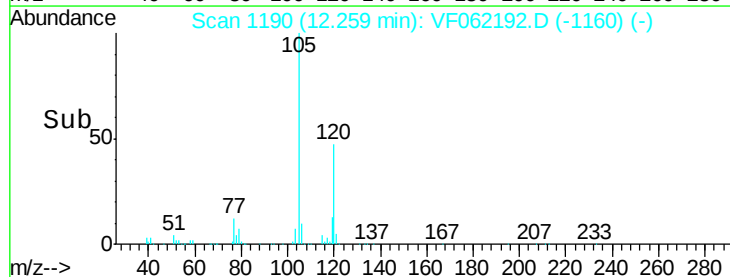
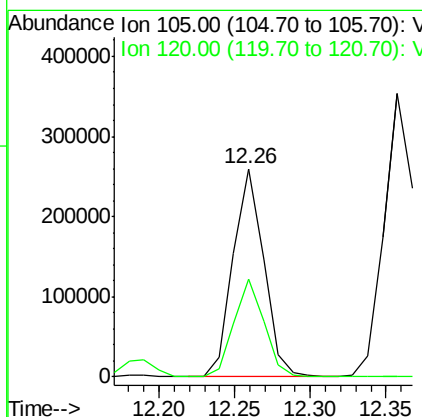
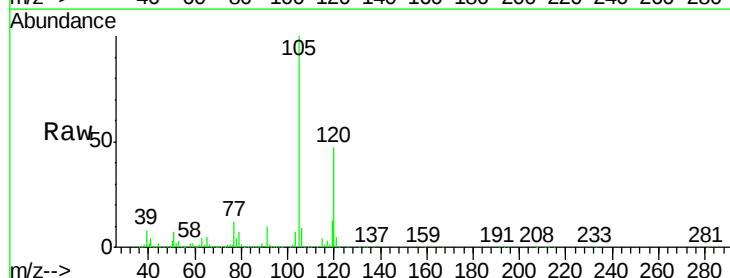
Manual Integrations
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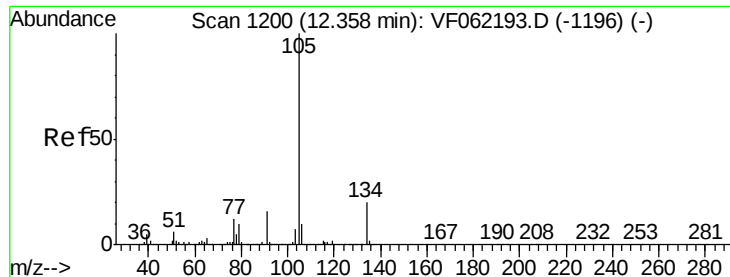
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 21.487 ug/l
RT: 12.26 min Scan# 1190
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	367581		
120	46.0	24.0	72.0	





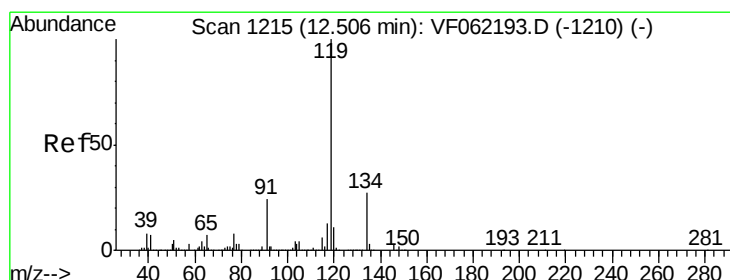
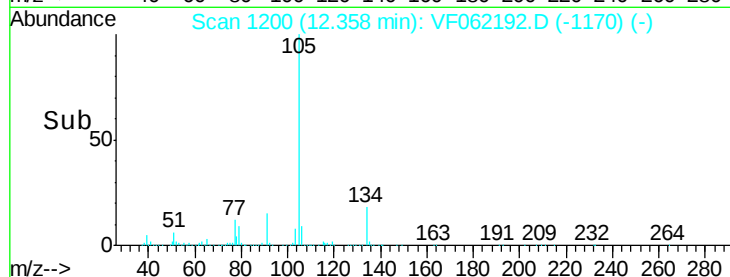
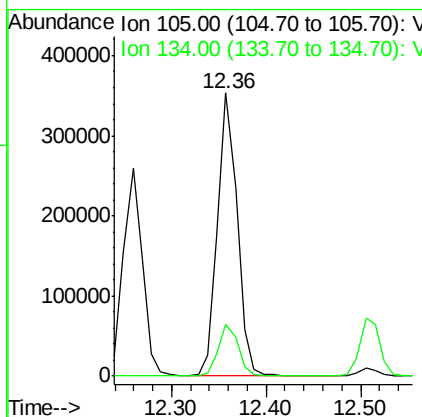
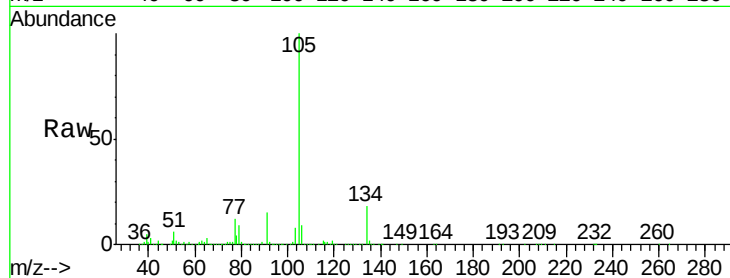
#85
 sec-Butylbenzene
 Concen: 25.298 ug/l
 RT: 12.36 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.5	9.7	29.1

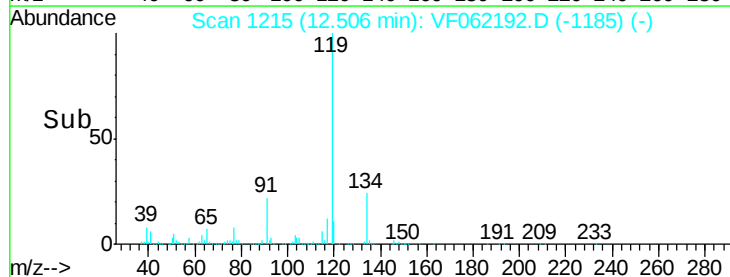
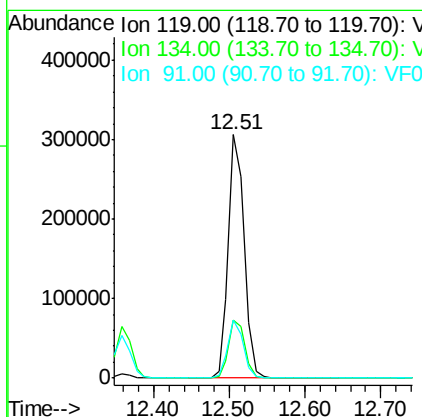
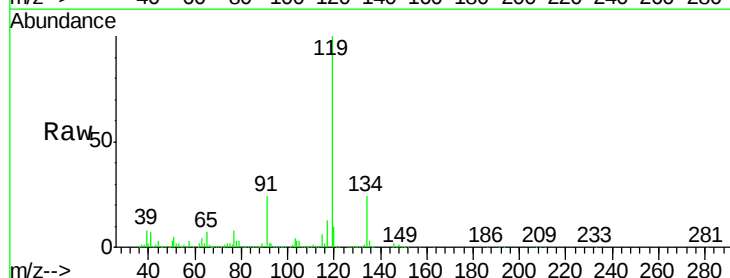
Manual Integrations
 APPROVED

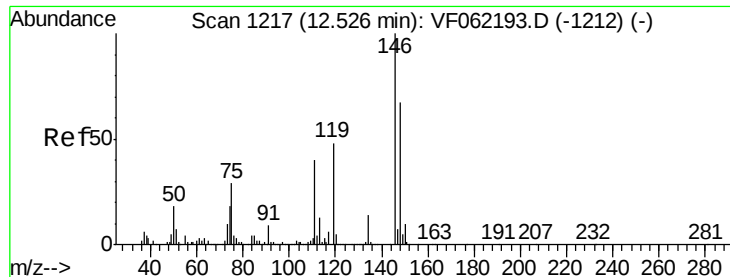
MMDadoda
 4/19/2019 10:53:15 AM



#86
 p-Isopropyltoluene
 Concen: 24.590 ug/l
 RT: 12.51 min Scan# 1215
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.2	13.2	39.5
91	23.1	11.7	35.1





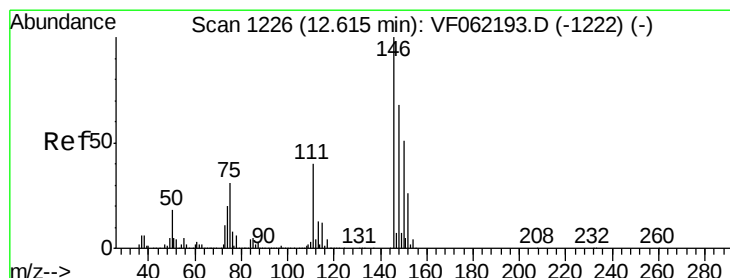
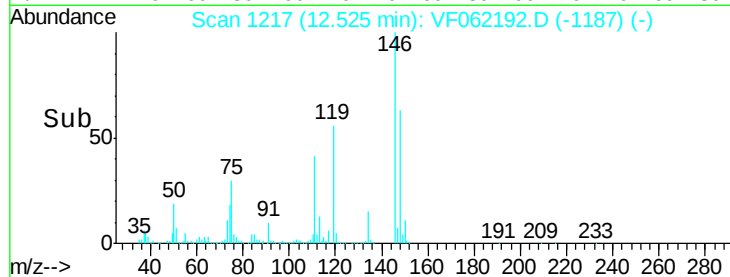
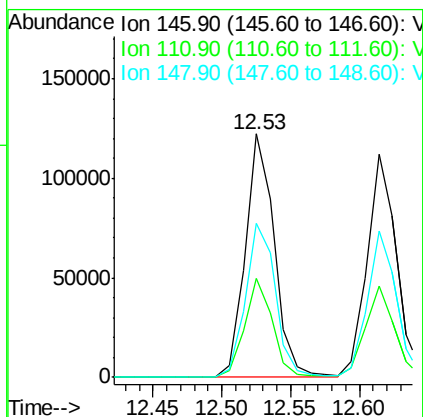
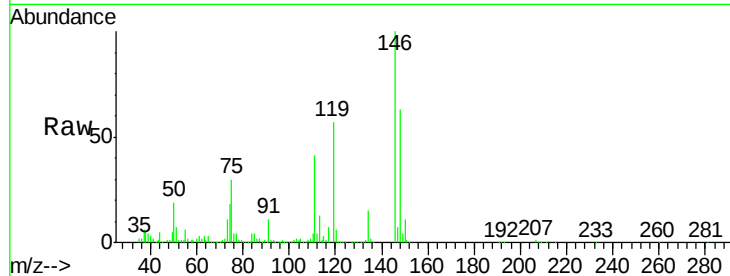
#87
 1,3-Dichlorobenzene
 Concen: 20.569 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.7	59.0
148	65.7	32.9	98.6

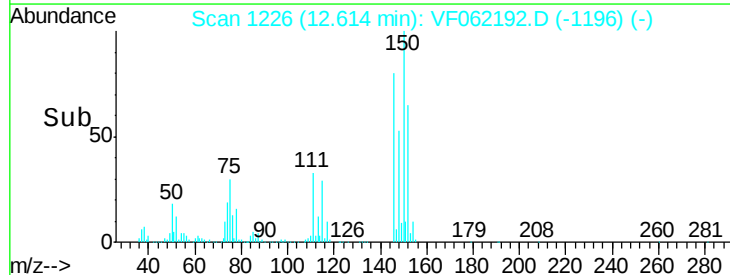
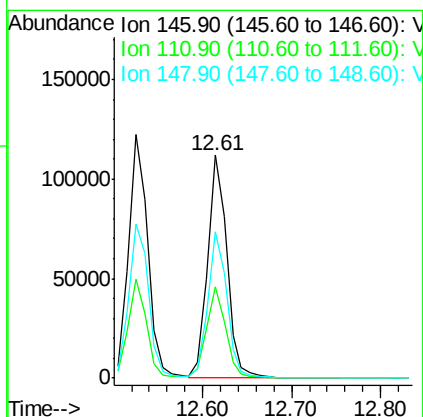
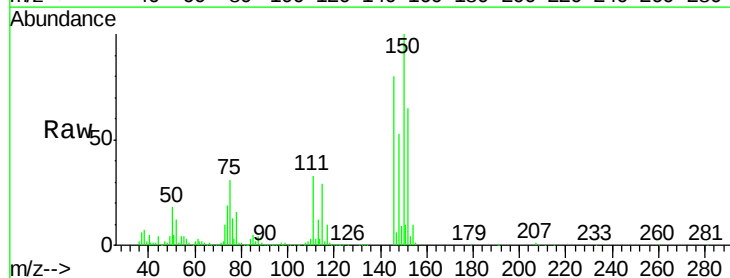
Manual Integrations
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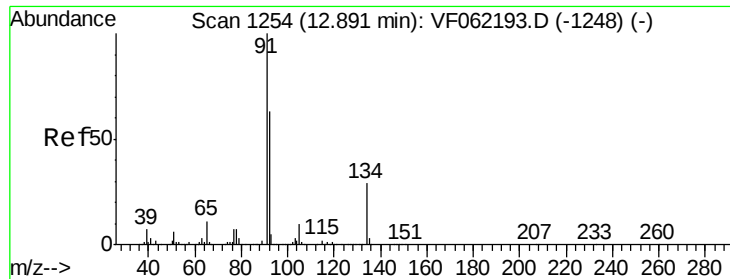
MMDadoda
 4/19/2019 10:53:15 AM



#88
 1,4-Dichlorobenzene
 Concen: 18.934 ug/l
 RT: 12.61 min Scan# 1226
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.0	60.0
148	64.6	33.6	100.8





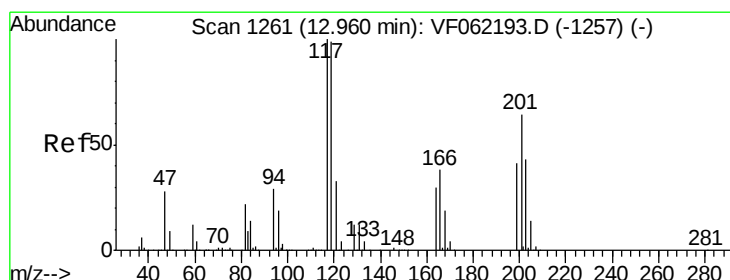
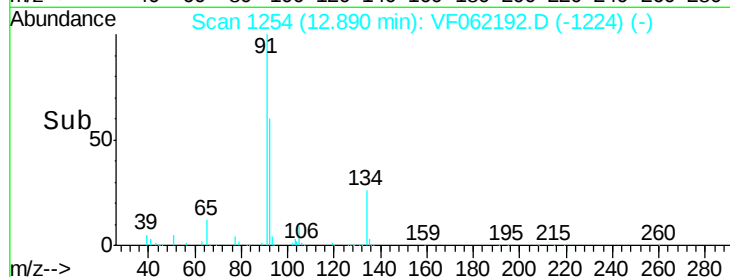
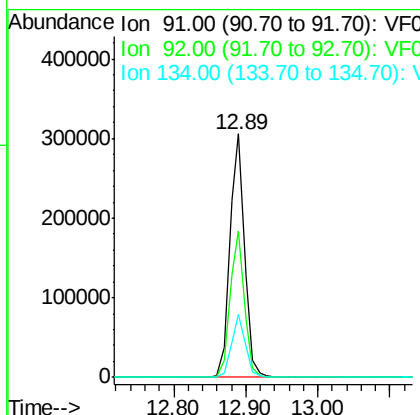
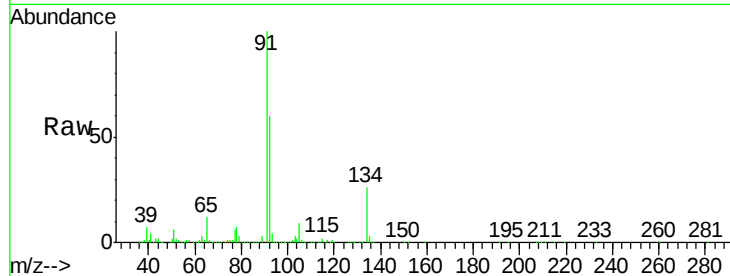
#89
n-Butylbenzene
Concen: 25.703 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	58.8	31.2	93.6
134	24.9	13.1	39.1

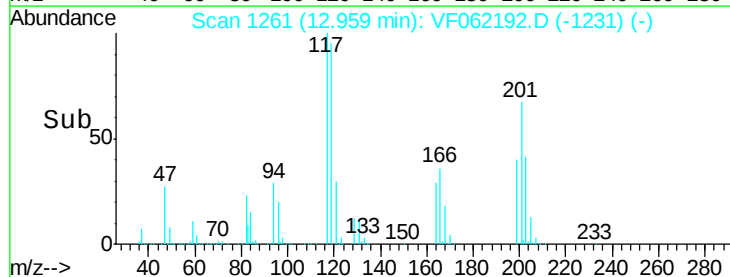
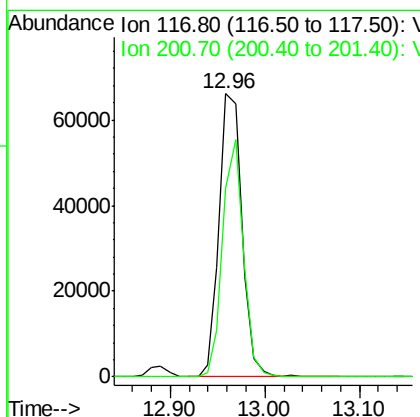
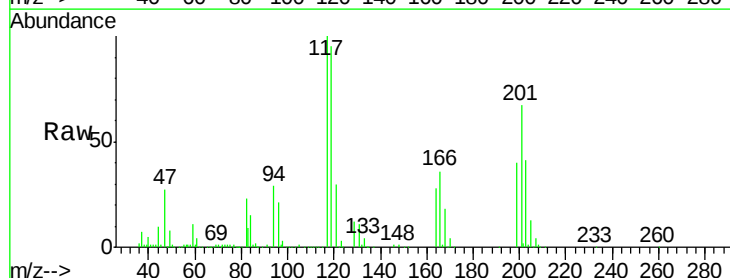
Manual Integrations
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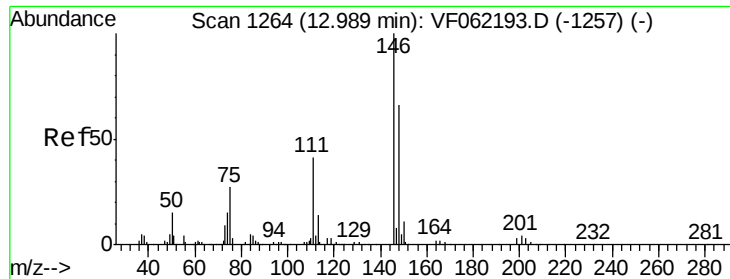
MMDadoda
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#90
Hexachloroethane
Concen: 33.359 ug/l
RT: 12.96 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Lower	Upper
117	100		
201	76.3	37.7	113.1





#91

1,2-Dichlorobenzene

Concen: 20.064 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Instrument :

MSVOA_F

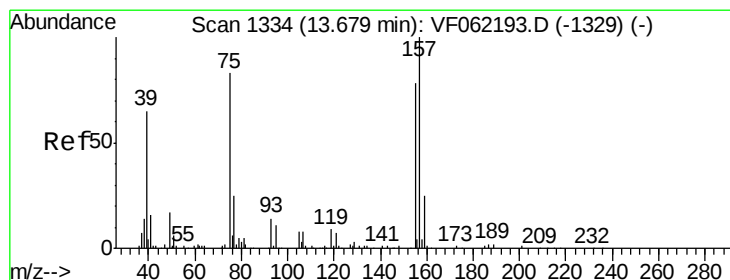
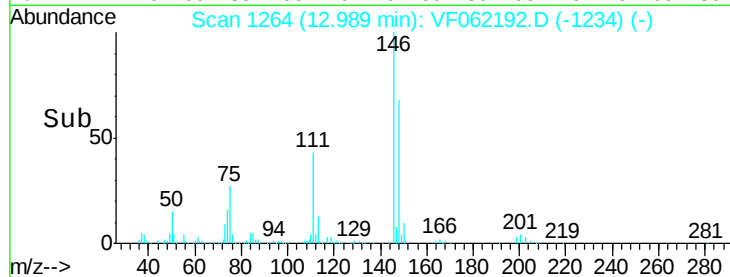
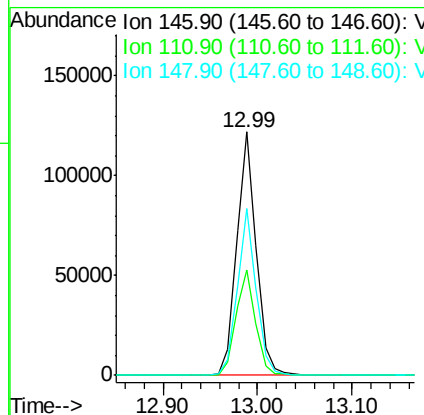
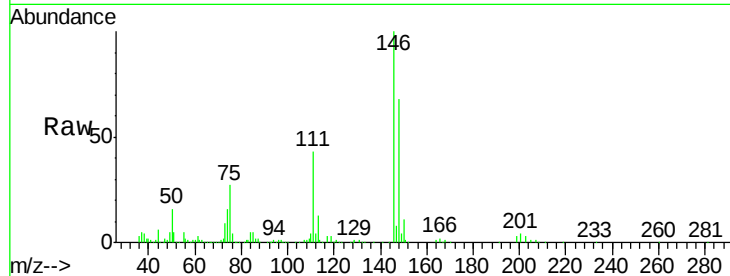
ClientSampleId :

VSTDIC020

Tot Ion:	146	Resp:	173721
Ion Ratio	Lower	Upper	
146	100		
111	43.5	20.8	62.5
148	66.2	33.0	99.0

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 9.445 ug/l

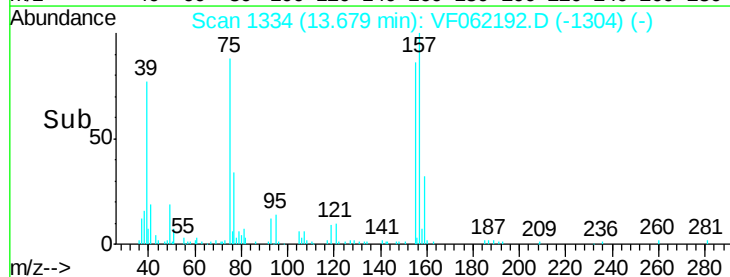
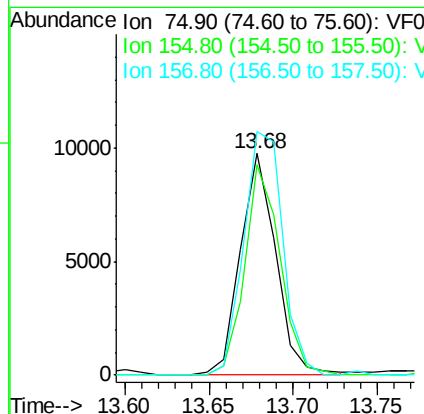
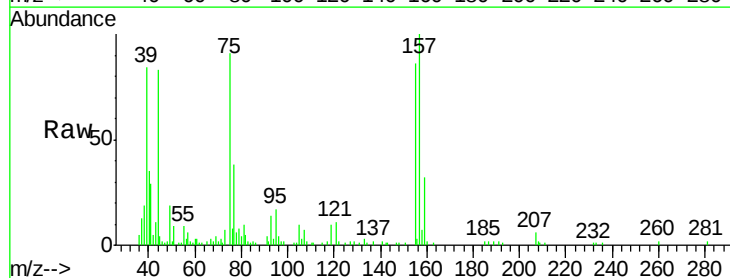
RT: 13.68 min Scan# 1334

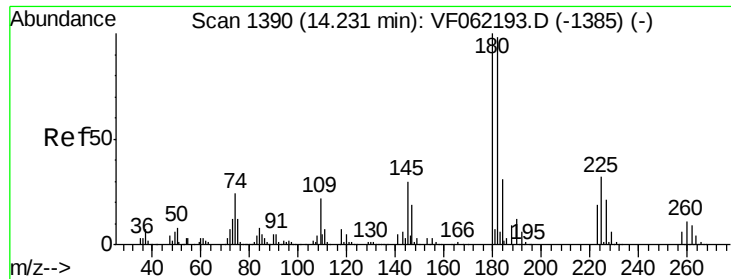
Delta R.T. -0.00 min

Lab File: VF062192.D

Acq: 17 Apr 2019 18:09

Tgt Ion:	75	Resp:	14299
Ion Ratio	Lower	Upper	
75	100		
155	94.5	47.6	142.8
157	120.8	61.3	183.9





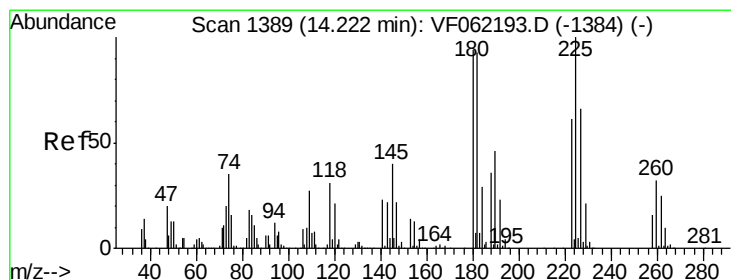
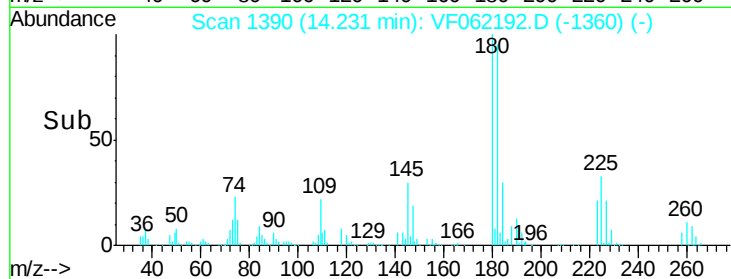
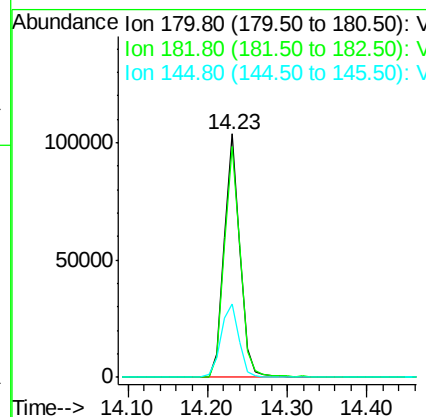
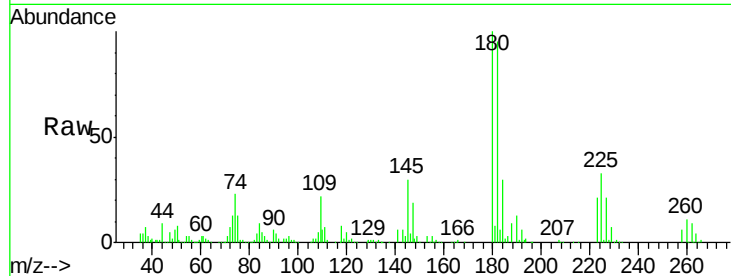
#93
 1,2,4-Trichlorobenzene
 Concen: 22.870 ug/l
 RT: 14.23 min Scan# 1390
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	146293		
182	96.6	49.3	147.9	
145	34.7	18.1	54.4	

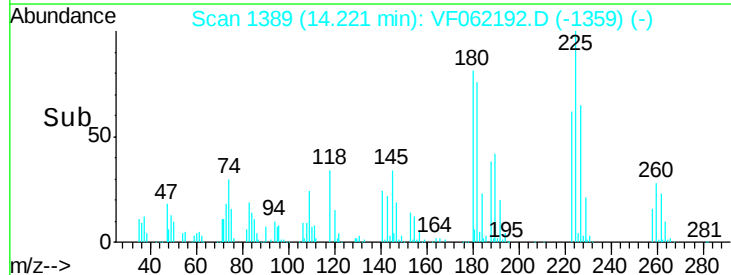
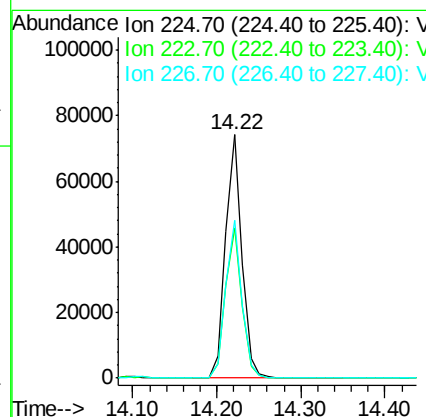
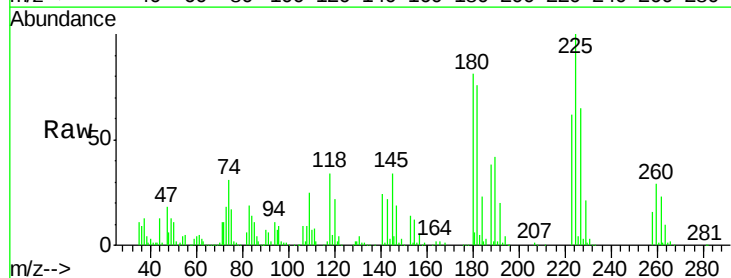
Manual Integrations
 APPROVED

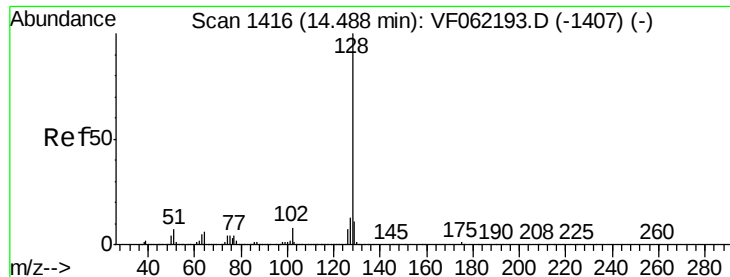
MMDadoda
 4/19/2019 10:53:15 AM



#94
 Hexachlorobutadiene
 Concen: 29.192 ug/l
 RT: 14.22 min Scan# 1389
 Delta R.T. -0.00 min
 Lab File: VF062192.D
 Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	100379		
223	62.2	31.0	93.0	
227	64.2	32.4	97.0	





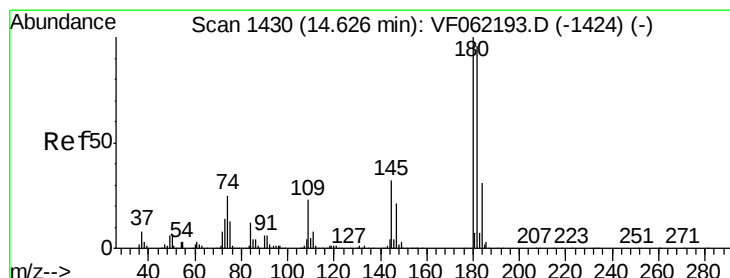
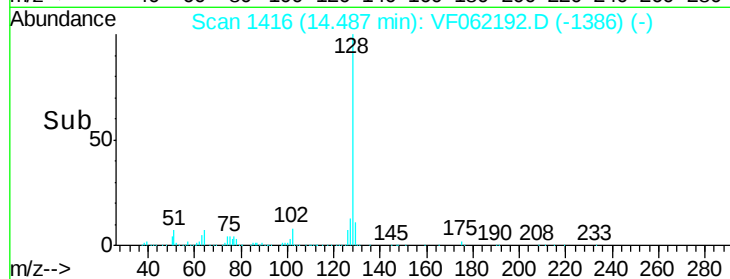
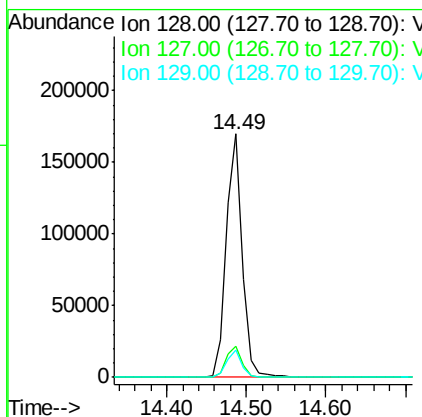
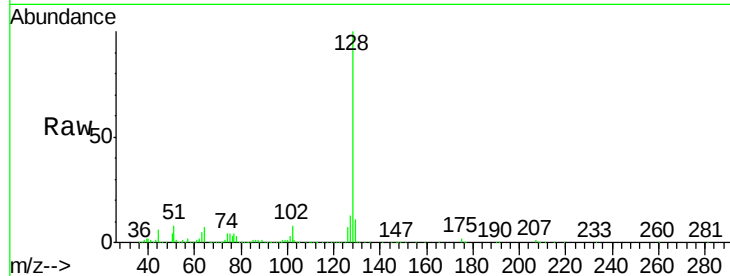
#95
Naphthalene
Concen: 12.915 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
128	100	243152		
127	12.8		10.4	15.6
129	10.9		9.2	13.8

Manual Integrations
APPROVED

MMDadoda
4/19/2019 10:53:15 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.585 ug/l
RT: 14.62 min Scan# 1430
Delta R.T. -0.00 min
Lab File: VF062192.D
Acq: 17 Apr 2019 18:09

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	137092		
182	95.2		48.4	145.3
145	31.0		15.6	46.8

