

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011819\
 Data File : VF061452.D
 Acq On : 18 Jan 2019 11:24
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 11:10:53 AM

Quant Time: Jan 19 04:11:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	189097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	336532	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	310097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	143854	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	116924	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
35) Dibromofluoromethane	4.10	113	128814	48.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.02%	
50) Toluene-d8	7.55	98	380098	52.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.48%	
62) 4-Bromofluorobenzene	11.40	95	168231	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	169937	45.738	ug/l	90
3) Chloromethane	1.08	50	129527	47.544	ug/l	96
4) Vinyl Chloride	1.13	62	119958	49.499	ug/l	90
5) Bromomethane	1.33	94	80607	51.007	ug/l	94
6) Chloroethane	1.38	64	53781	50.083	ug/l	92
7) Trichlorofluoromethane	1.47	101	204549	43.417	ug/l	96
8) Diethyl Ether	1.63	74	29159	48.303	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.82	101	106842	47.197	ug/l	91
10) Methyl Iodide	1.89	142	169569m	48.318	ug/l	
11) Tert butyl alcohol	2.56	59	24599	248.924	ug/l #	92
12) 1,1-Dichloroethene	1.79	96	83511	49.655	ug/l	87
13) Acrolein	1.99	56	31904	369.655	ug/l	91
14) Allyl chloride	2.09	41	130845	69.211	ug/l	90
15) Acrylonitrile	2.93	53	66508	262.742	ug/l	96
16) Acetone	2.23	43	139924	298.755	ug/l	99
17) Carbon Disulfide	1.81	76	253620	48.363	ug/l	99
18) Methyl Acetate	2.34	43	50683	54.567	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	180278	47.817	ug/l	96
20) Methylene Chloride	2.18	84	81518m	51.320	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	88496	47.825	ug/l	94
22) Diisopropyl ether	2.79	45	278966	46.611	ug/l	100
23) Vinyl Acetate	3.18	43	683758	259.612	ug/l	100
24) 1,1-Dichloroethane	2.86	63	170444	45.375	ug/l	98
25) 2-Butanone	4.32	43	205167	263.420	ug/l	94
26) 2,2-Dichloropropane	3.59	77	105614	45.762	ug/l	94
27) cis-1,2-Dichloroethene	3.46	96	131968	48.314	ug/l	95
28) Bromochloromethane	3.71	49	79738	47.224	ug/l #	96
29) Tetrahydrofuran	4.06	42	84784	252.807	ug/l	99
30) Chloroform	3.85	83	225714	44.524	ug/l	99
31) Cyclohexane	3.68	56	180259m	48.040	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	177727	47.813	ug/l	98
36) 1,1-Dichloropropene	4.27	75	177087	45.385	ug/l	96
37) Ethyl Acetate	4.09	43	75353	48.312	ug/l #	89
38) Carbon Tetrachloride	3.97	117	158525	46.472	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	203286	48.074	ug/l	100
40) Benzene	4.63	78	397336	45.763	ug/l	98
41) Methacrylonitrile	4.72	41	40006	48.204	ug/l #	92
42) 1,2-Dichloroethane	4.93	62	141705	45.801	ug/l	98
43) Isopropyl Acetate	6.94	43	100886	51.536	ug/l #	98
44) Trichloroethene	5.49	130	127377	47.824	ug/l	100
45) 1,2-Dichloropropane	6.22	63	111720	49.027	ug/l	96
46) Dibromomethane	6.08	93	73359	48.415	ug/l	97
47) Bromodichloromethane	6.37	83	178316	47.564	ug/l	100
48) Methyl methacrylate	6.71	41	62648	47.659	ug/l	96
49) 1,4-Dioxane	6.69	88	9019	981.636	ug/l #	78
51) 4-Methyl-2-Pentanone	8.25	43	356663	247.834	ug/l	98
52) Toluene	7.61	92	250550	43.820	ug/l	100
53) t-1,3-Dichloropropene	8.27	75	139748	46.944	ug/l	94
54) cis-1,3-Dichloropropene	7.29	75	188953	50.780	ug/l	97
55) 1,1,2-Trichloroethane	8.48	97	82263	50.665	ug/l	96
56) Ethyl methacrylate	8.61	69	95008	50.295	ug/l	97
57) 1,3-Dichloropropane	8.84	76	146354	48.090	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.28	63	48833	246.906	ug/l	99
59) 2-Hexanone	9.48	43	278564	277.585	ug/l	96
60) Dibromochloromethane	8.71	129	114191	48.107	ug/l	96
61) 1,2-Dibromoethane	8.98	107	85316	45.900	ug/l	87
64) Tetrachloroethene	8.14	164	106394	45.624	ug/l	97
65) Chlorobenzene	9.79	112	298300	47.304	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.92	131	117536	46.788	ug/l	96
67) Ethyl Benzene	9.88	91	551279	47.848	ug/l	99
68) m/p-Xylenes	10.12	106	375511	90.618	ug/l	100
69) o-Xylene	10.70	106	209377	46.619	ug/l	95
70) Styrene	10.78	104	285051	46.367	ug/l	97
71) Bromoform	10.76	173	58382	51.725	ug/l #	95
73) Isopropylbenzene	11.12	105	619060	52.911	ug/l	98
74) N-amyl acetate	11.36	43	155950	56.369	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	111777	53.628	ug/l	96
76) 1,2,3-Trichloropropane	11.79	75	75850	50.645	ug/l	92
77) Bromobenzene	11.49	156	129017	52.214	ug/l	99
78) n-propylbenzene	11.59	91	706771	49.542	ug/l	98
79) 2-Chlorotoluene	11.71	91	409071	50.392	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	471376	49.923	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	33595m	51.601	ug/l	
82) 4-Chlorotoluene	11.90	91	421183	51.416	ug/l	97
83) tert-Butylbenzene	12.12	119	507919	51.973	ug/l	96
84) 1,2,4-Trimethylbenzene	12.20	105	472880	48.621	ug/l	99
85) sec-Butylbenzene	12.30	105	671773	50.618	ug/l	98
86) p-Isopropyltoluene	12.45	119	545825	50.101	ug/l	94
87) 1,3-Dichlorobenzene	12.47	146	237972	48.265	ug/l	99
88) 1,4-Dichlorobenzene	12.56	146	231433	49.566	ug/l	97
89) n-Butylbenzene	12.83	91	583508	51.934	ug/l	97
90) Hexachloroethane	12.91	117	134910	52.533	ug/l	95
91) 1,2-Dichlorobenzene	12.93	146	228952	49.532	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.63	75	20767	56.174	ug/l	67

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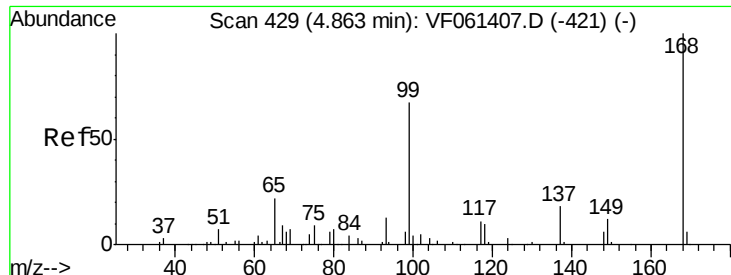
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	156074	48.200	ug/l	99
94) Hexachlorobutadiene	14.18	225	100513	50.025	ug/l	99
95) Naphthalene	14.45	128	309197	50.260	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	145028	48.384	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 189097

Ion Ratio Lower Upper

168 100

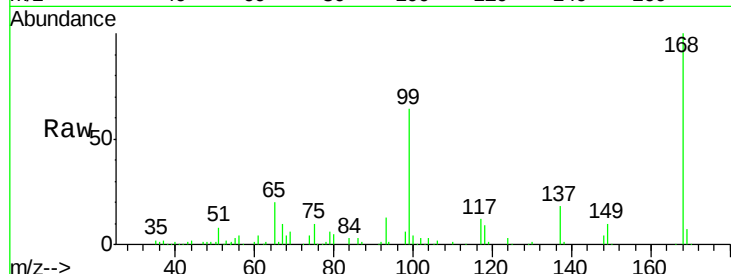
99 64.0 53.5 80.3

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

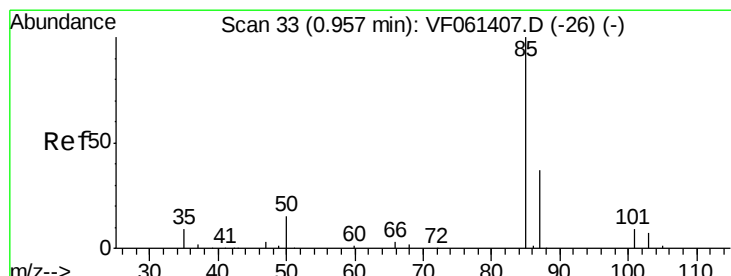
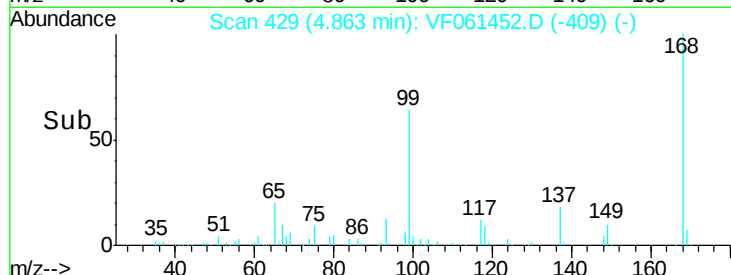
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 45.738 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061452.D

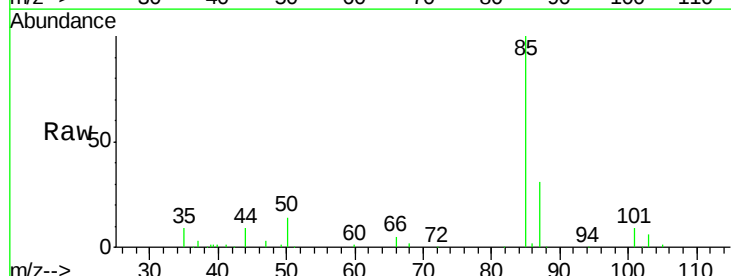
Acq: 18 Jan 2019 11:24

Tgt Ion: 85 Resp: 169937

Ion Ratio Lower Upper

85 100

87 30.9 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

60000

50000

40000

30000

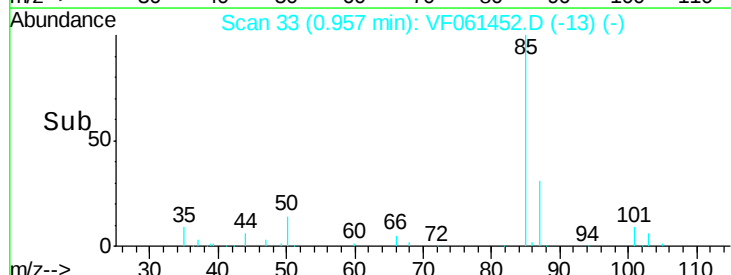
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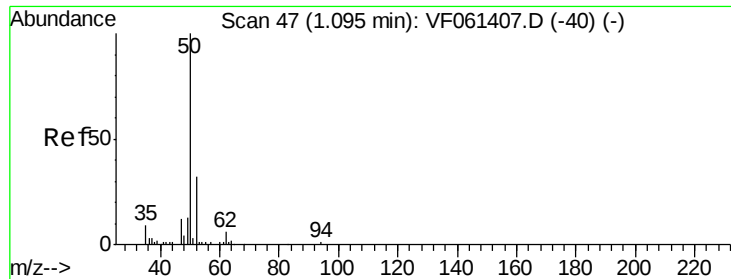
10000

0

Time-->

0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 47.544 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 129527

Ion Ratio Lower Upper

50 100

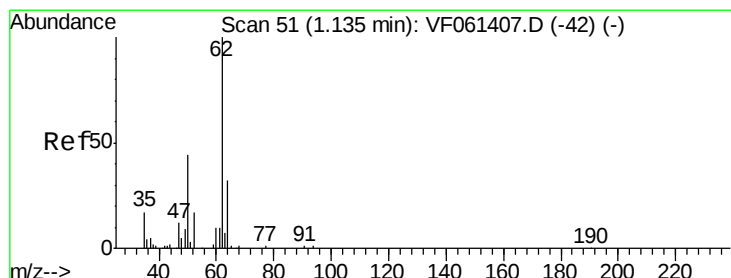
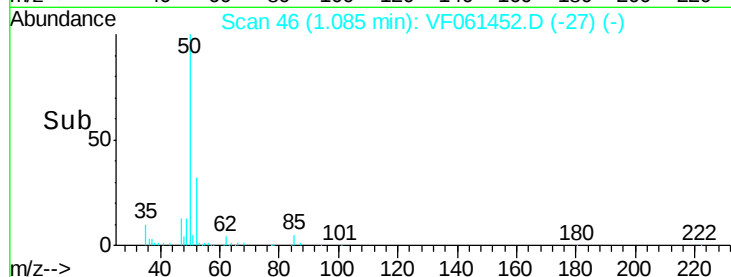
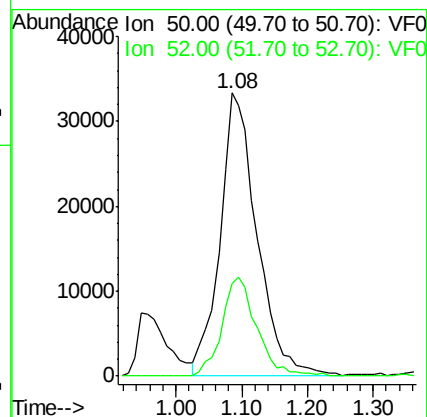
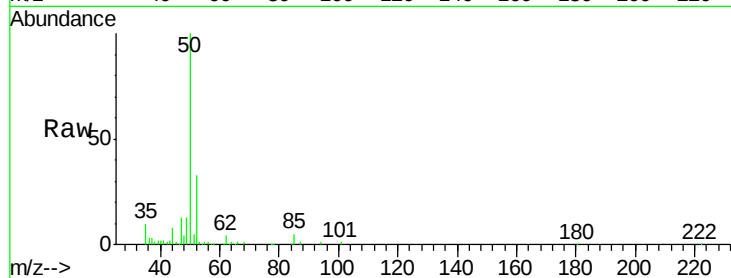
52 32.9 24.6 36.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 49.499 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061452.D

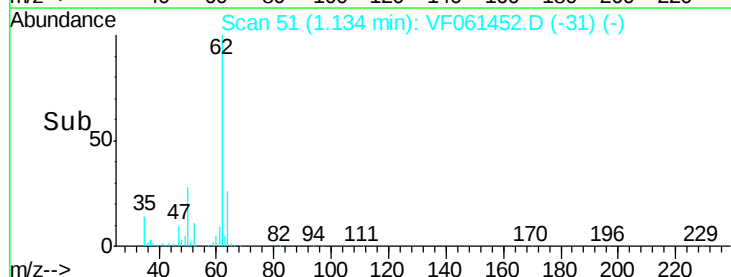
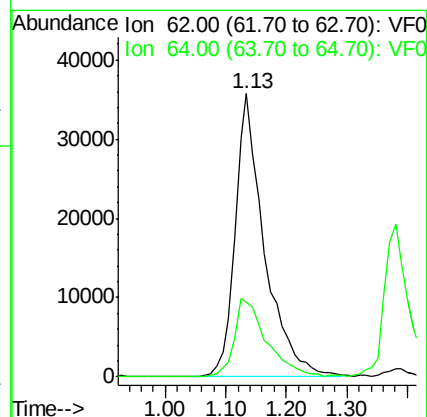
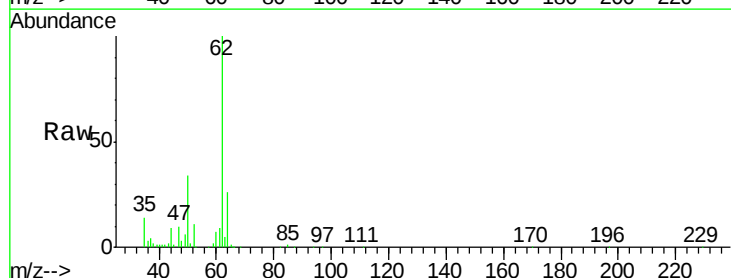
Acq: 18 Jan 2019 11:24

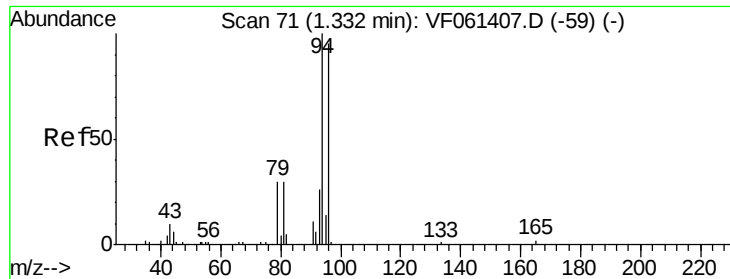
Tgt Ion: 62 Resp: 119958

Ion Ratio Lower Upper

62 100

64 26.2 25.6 38.4





#5

Bromomethane

Concen: 51.007 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

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Tot Ion: 94 Resp: 80607

Ion Ratio Lower Upper

94 100

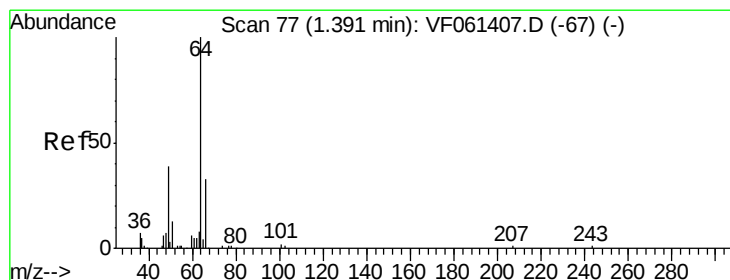
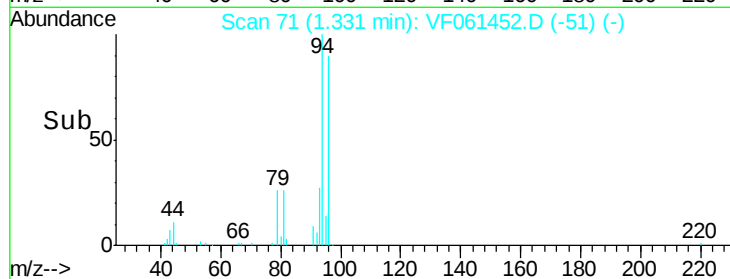
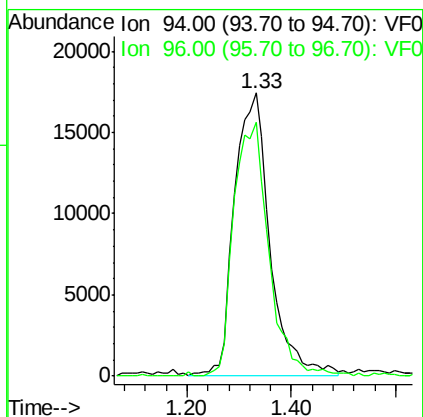
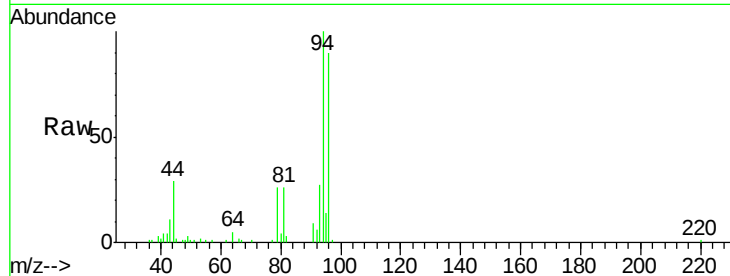
96 89.7 76.0 114.0

Manual Integrations

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#6

Chloroethane

Concen: 50.083 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061452.D

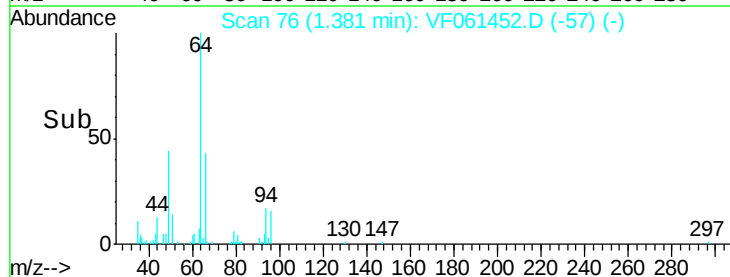
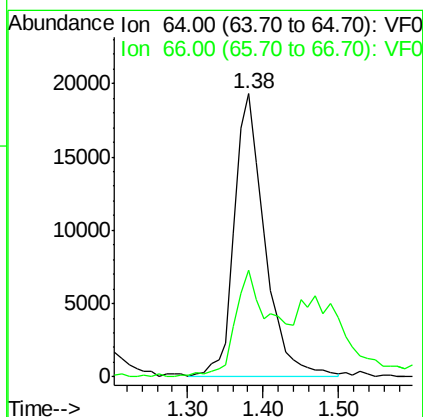
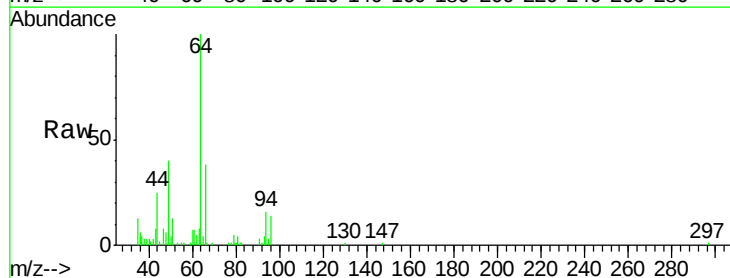
Acq: 18 Jan 2019 11:24

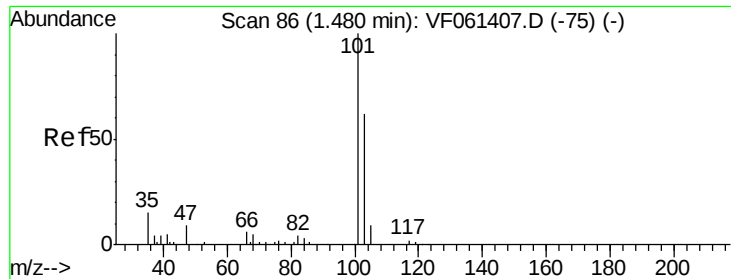
Tgt Ion: 64 Resp: 53781

Ion Ratio Lower Upper

64 100

66 37.7 26.6 40.0





#7

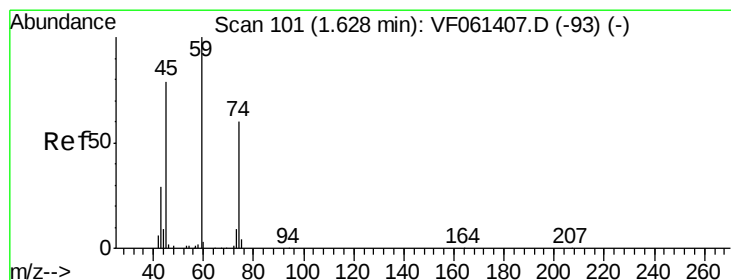
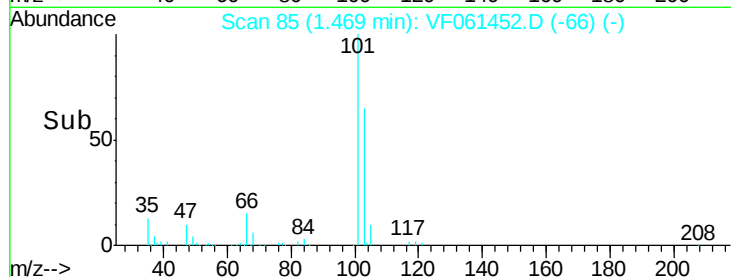
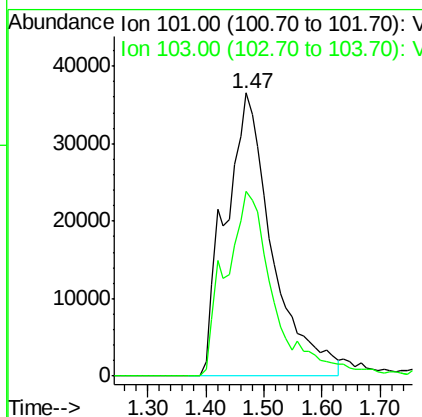
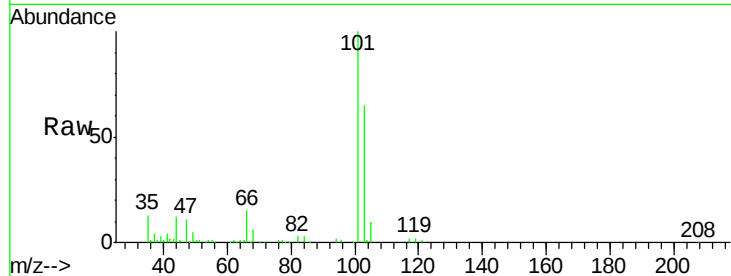
Trichlorofluoromethane
Concen: 43.417 ug/l
RT: 1.47 min Scan# 85
Delta R.T. -0.01 min
Lab File: VF061452.D
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		204549		
103	65.1	49.7	74.5		

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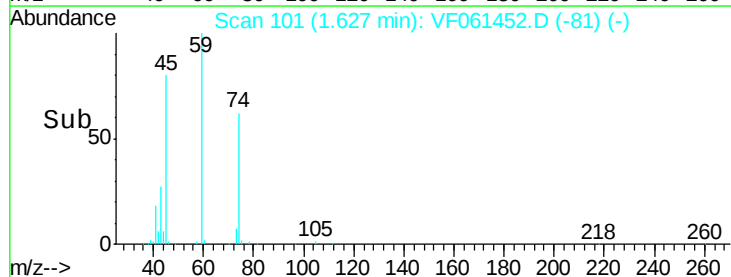
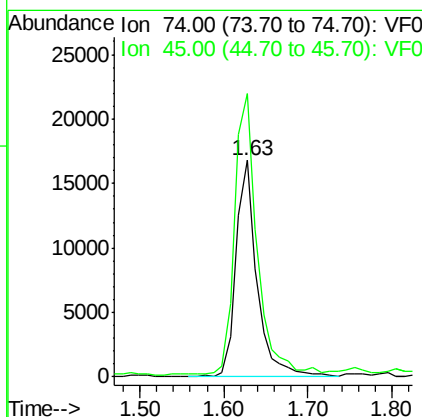
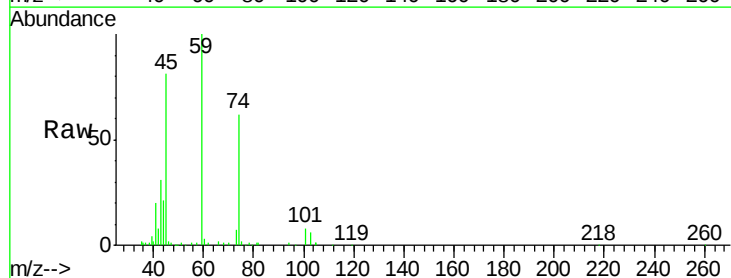
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1/21/2019 11:10:53 AM



#8

Diethyl Ether
Concen: 48.303 ug/l
RT: 1.63 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		29159		
45	130.6	65.8	197.5		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.197 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061452.D

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MSVOA_F

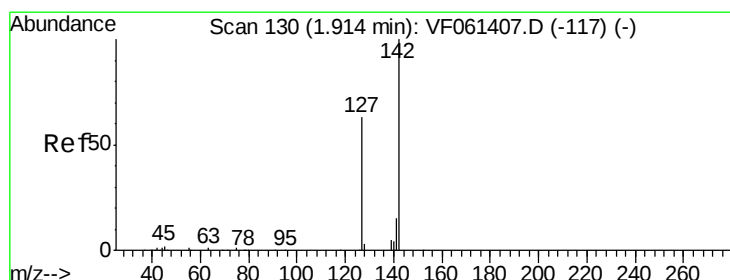
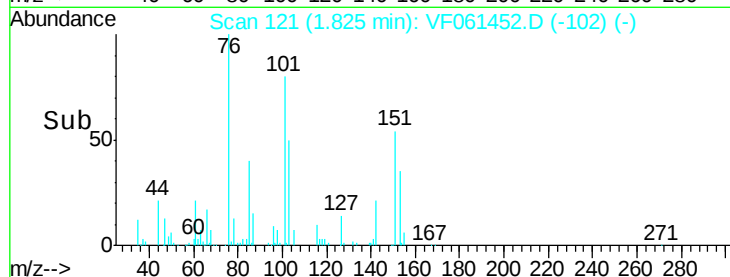
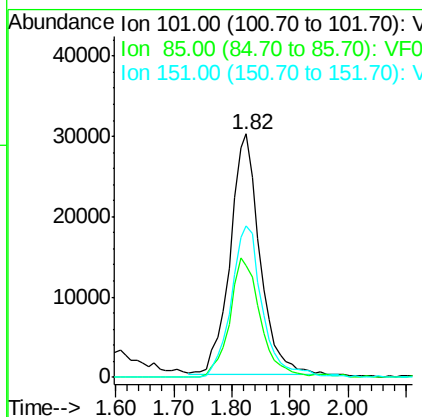
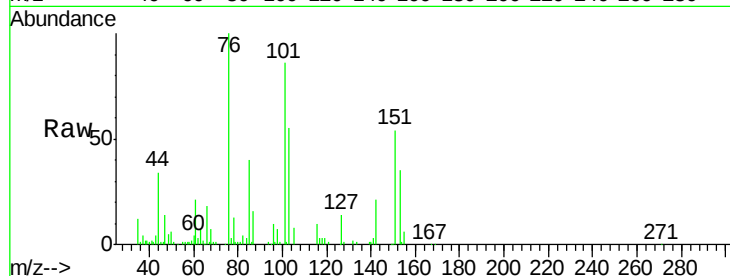
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	106842
Ion Ratio	Lower	Upper	
101	100		
85	45.7	41.9	62.9
151	62.3	55.1	82.7

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#10

Methyl Iodide

Concen: 48.318 ug/l m

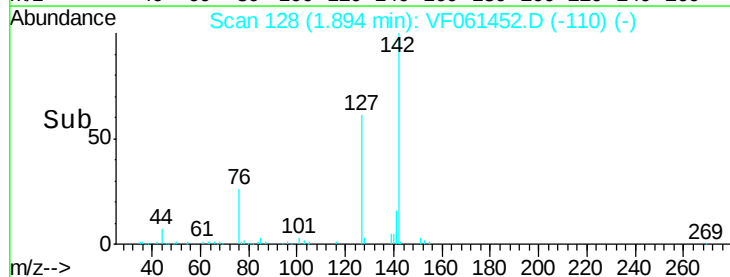
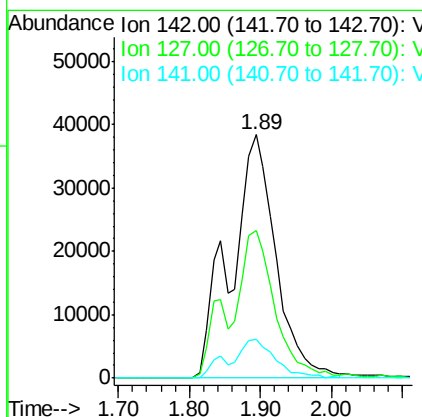
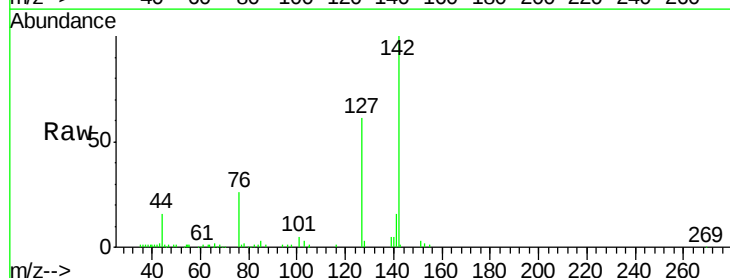
RT: 1.89 min Scan# 128

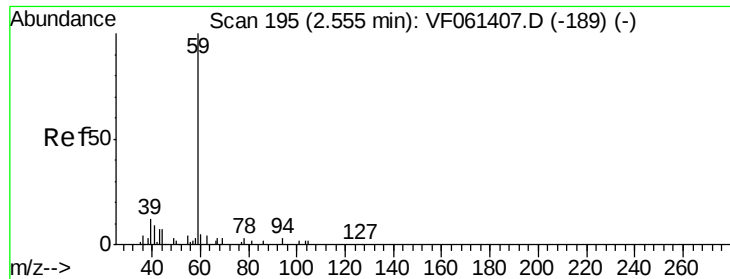
Delta R.T. -0.02 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	142	Resp:	169569
Ion Ratio	Lower	Upper	
142	100		
127	60.6	50.7	76.1
141	15.9	11.8	17.6





#11

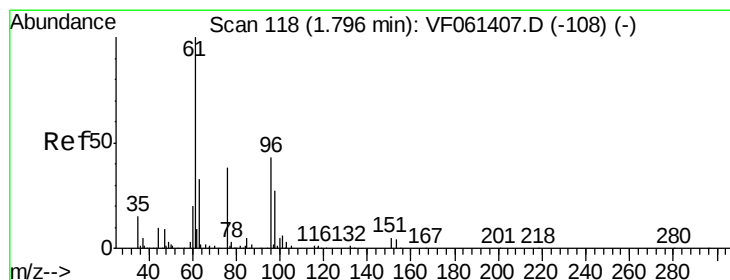
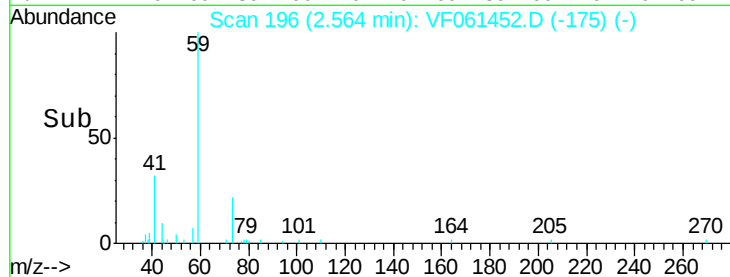
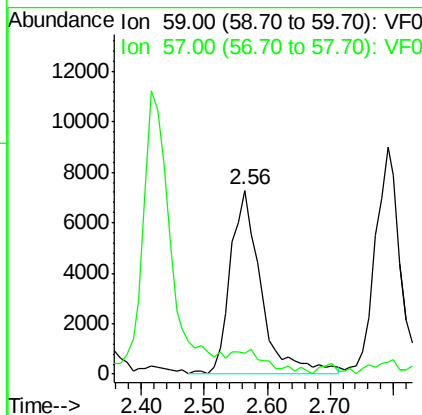
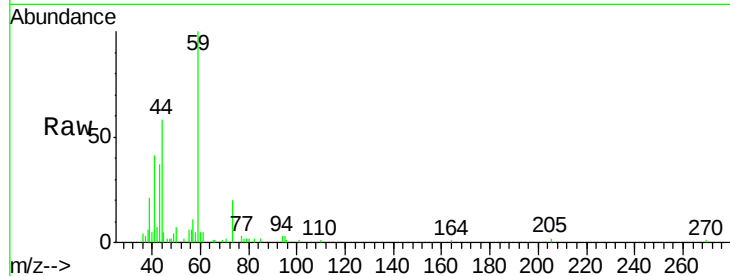
Tert butyl alcohol
 Concen: 248.924 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. 0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.5	11.9	17.9#

Manual Integrations
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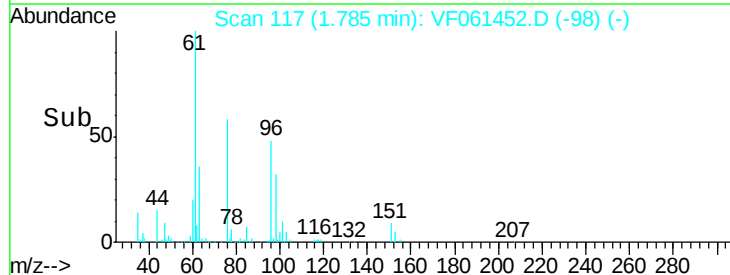
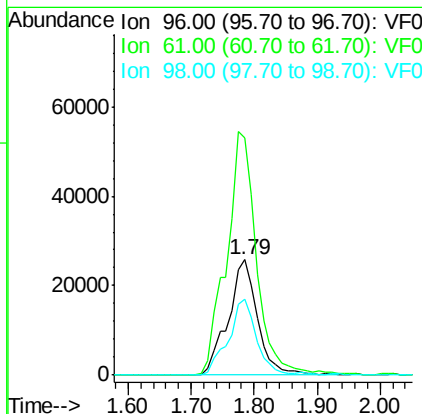
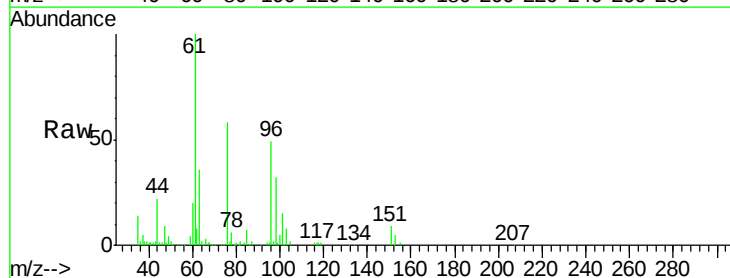
MMDadoda
 1/21/2019 11:10:53 AM

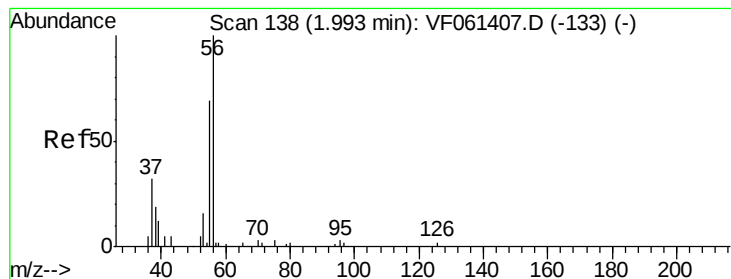


#12

1,1-Dichloroethene
 Concen: 49.655 ug/l
 RT: 1.79 min Scan# 117
 Delta R.T. -0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	206.2	186.9	280.3
98	65.8	53.0	79.4





#13

Acrolein

Concen: 369.655 ug/l

RT: 1.99 min Scan# 138

Delta R.T. 0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 31904

Ion Ratio Lower Upper

56 100

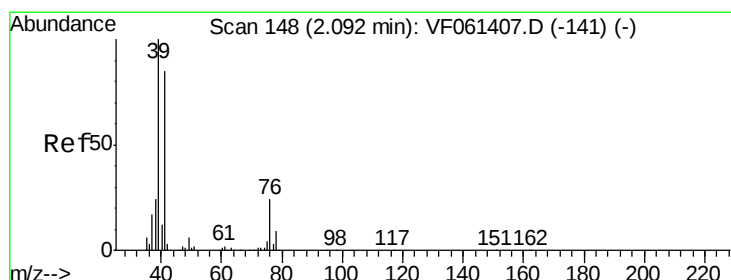
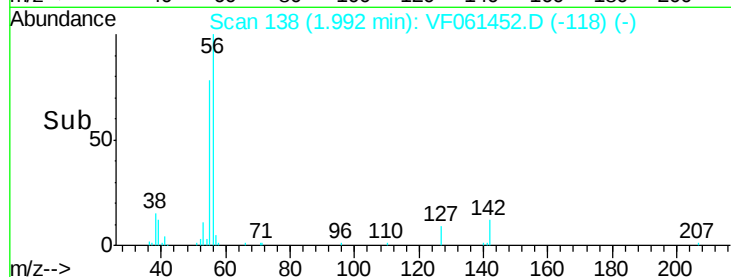
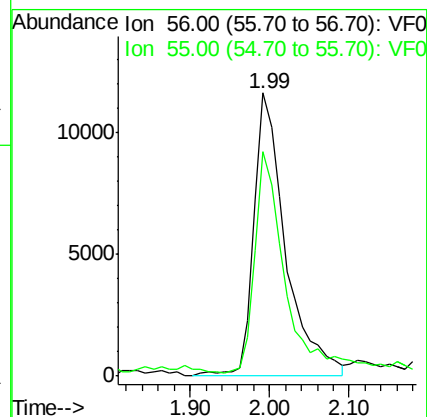
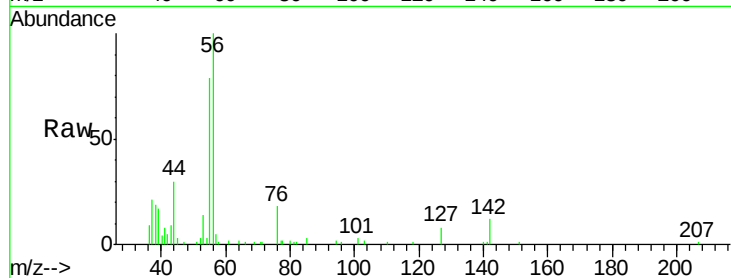
55 79.3 57.5 86.3

Manual Integrations

APPROVED

MMDadoda

1/21/2019 11:10:53 AM



#14

Allyl chloride

Concen: 69.211 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

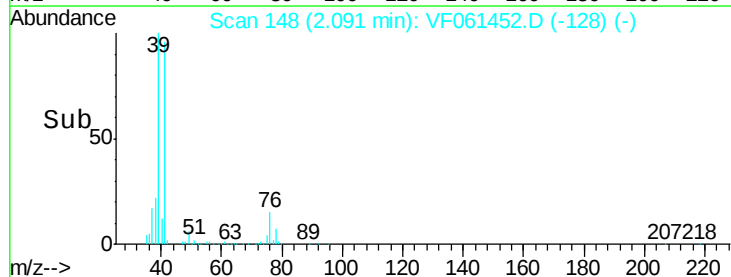
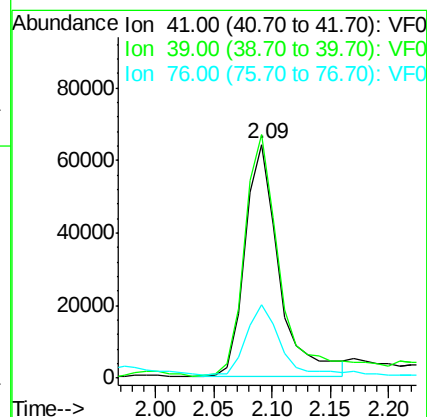
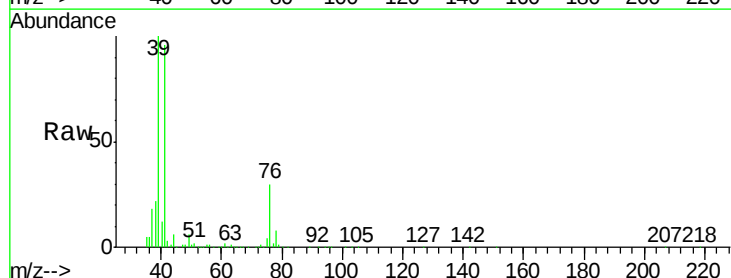
Tgt Ion: 41 Resp: 130845

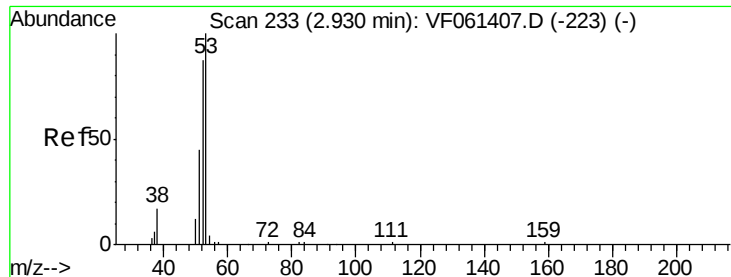
Ion Ratio Lower Upper

41 100

39 104.2 94.6 141.8

76 31.5 25.9 38.9





#15

Acrylonitrile

Concen: 262.742 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

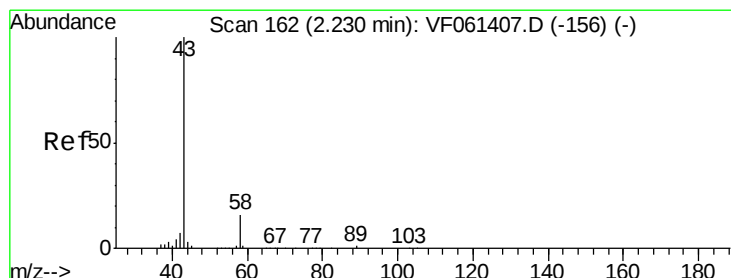
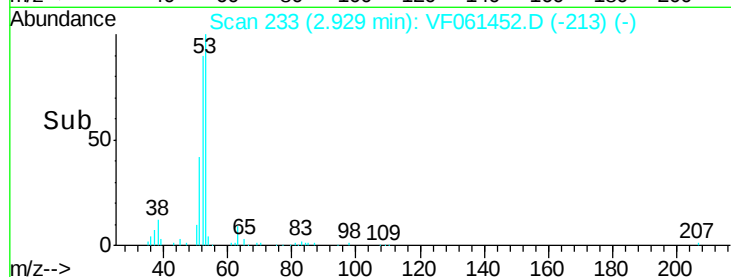
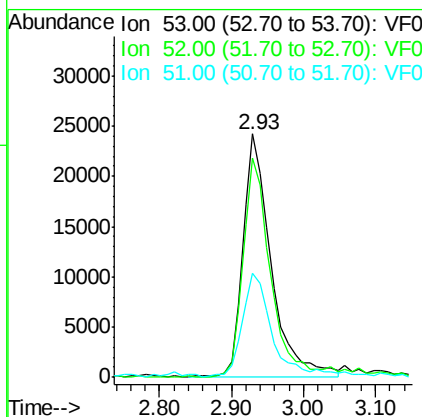
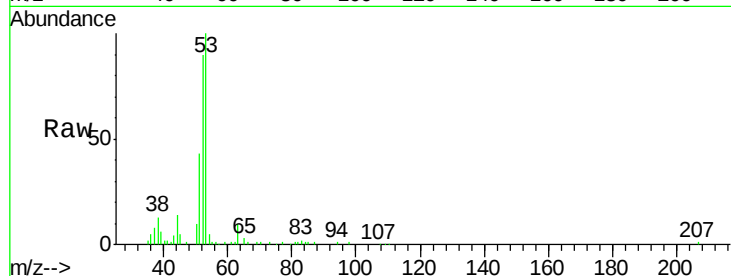
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	66508
Ion	Ratio	Lower	Upper
53	100		
52	90.2	69.6	104.4
51	42.8	36.8	55.2

Manual Integrations
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1/21/2019 11:10:53 AM



#16

Acetone

Concen: 298.755 ug/l

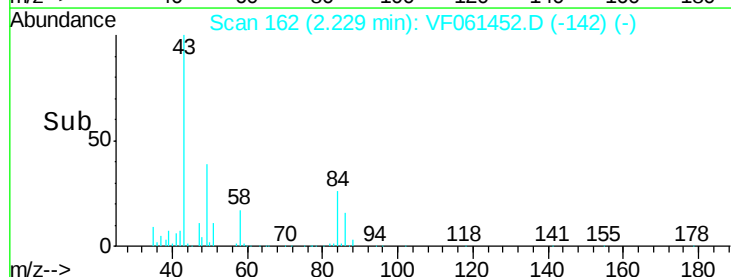
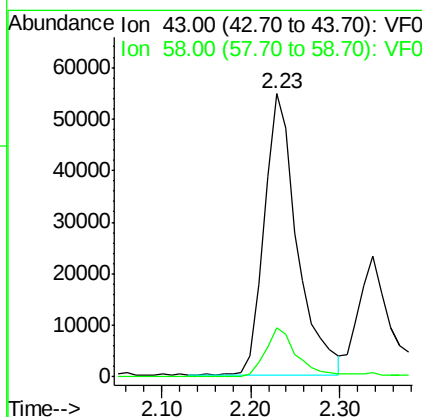
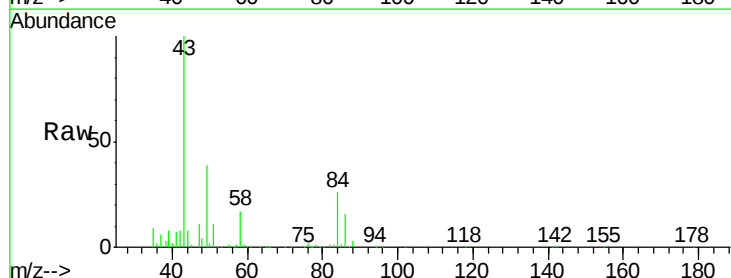
RT: 2.23 min Scan# 162

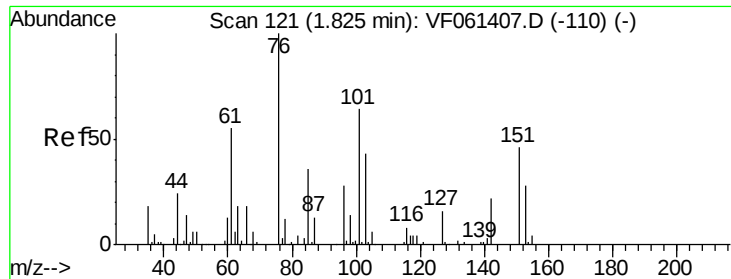
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	43	Resp:	139924
Ion	Ratio	Lower	Upper
43	100		
58	17.2	13.3	19.9





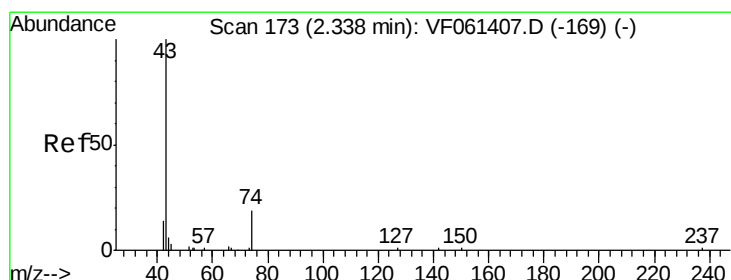
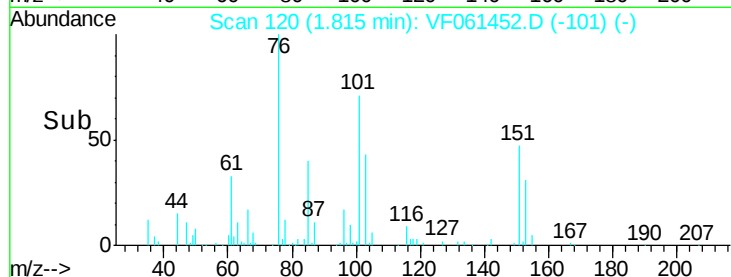
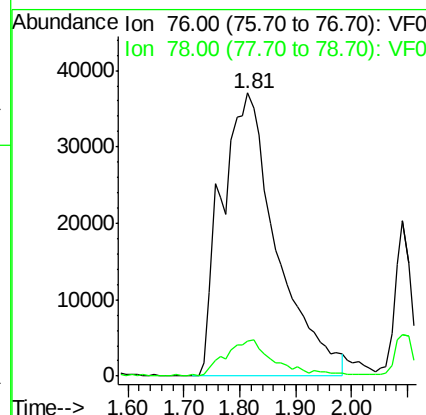
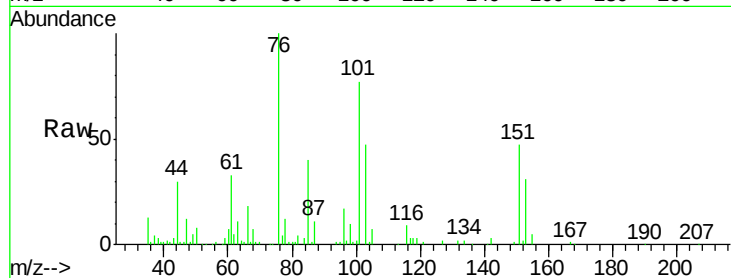
#17
Carbon Disulfide
Concen: 48.363 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
76	100		
78	12.4	9.6	14.4

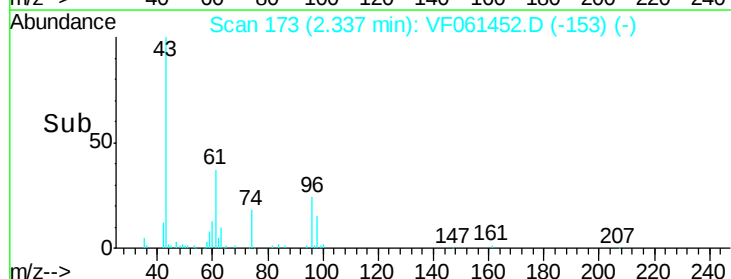
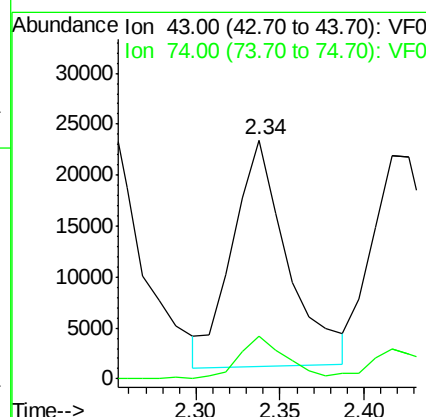
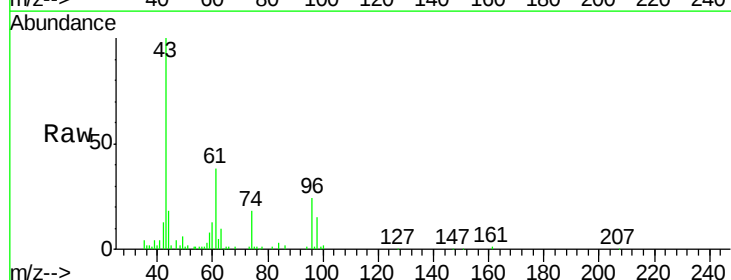
Manual Integrations
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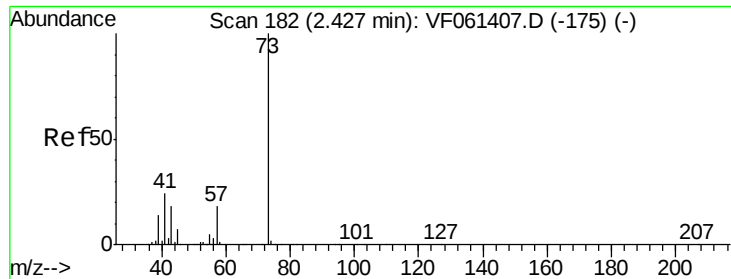
MMDadoda
1/21/2019 11:10:53 AM



#18
Methyl Acetate
Concen: 54.567 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.0	13.4	20.0





#19

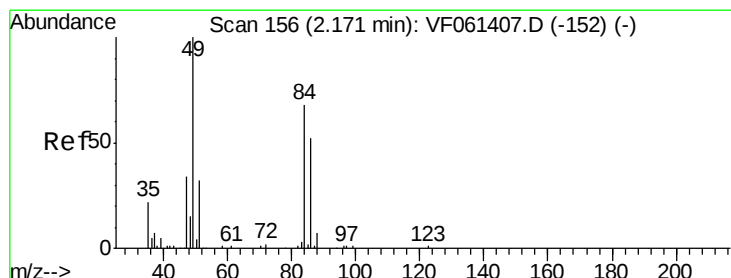
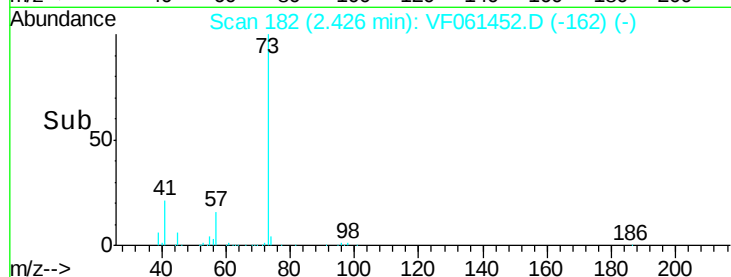
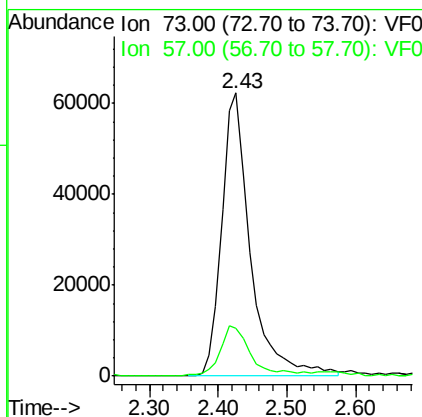
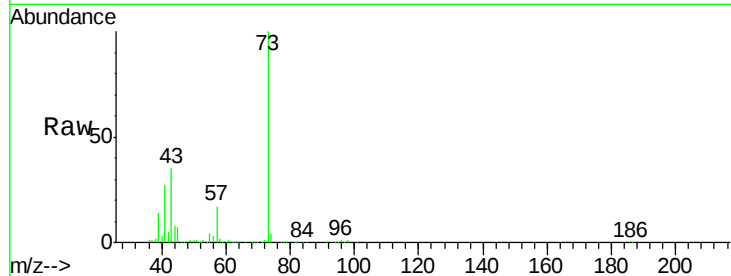
Methyl tert-butyl Ether
 Concen: 47.817 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	16.8	14.8	22.2

Manual Integrations
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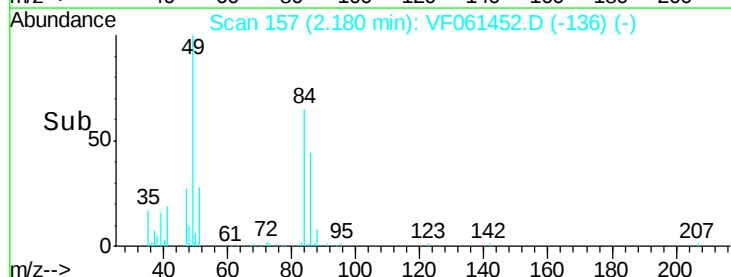
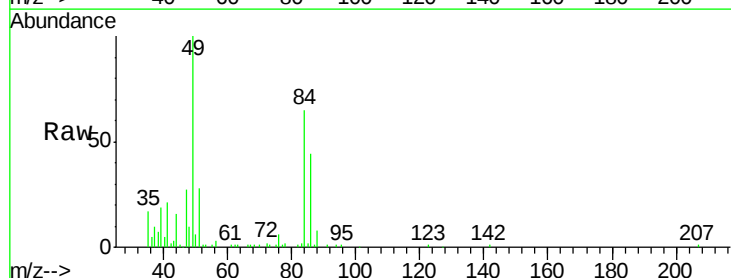
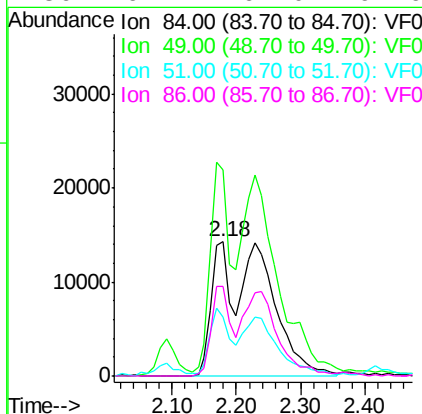
MMDadoda
 1/21/2019 11:10:53 AM

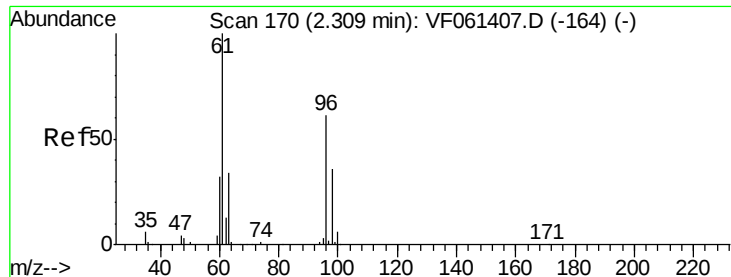


#20

Methylene Chloride
 Concen: 51.320 ug/l m
 RT: 2.18 min Scan# 157
 Delta R.T. 0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Lower	Upper
84	100		
49	153.3	120.0	180.0
51	43.5	38.6	58.0
86	67.2	61.0	91.6





#21

trans-1,2-Dichloroethene

Concen: 47.825 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

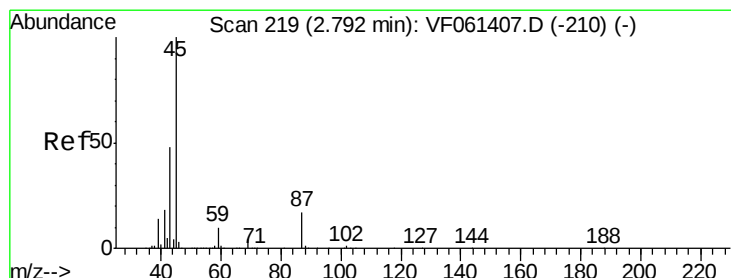
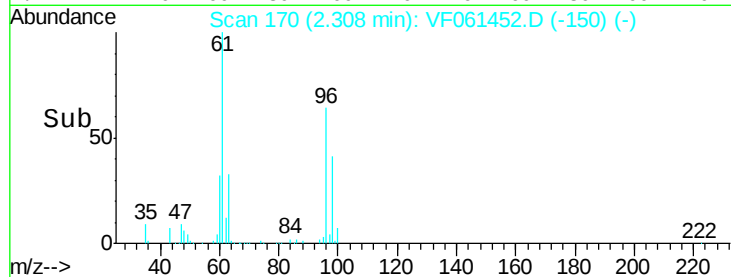
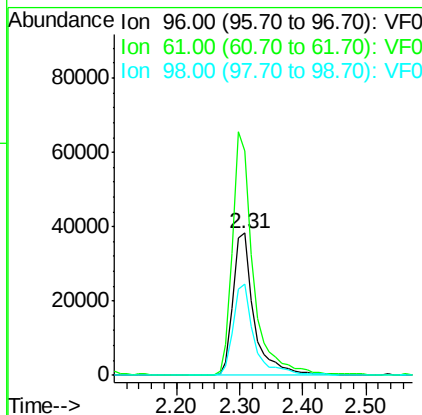
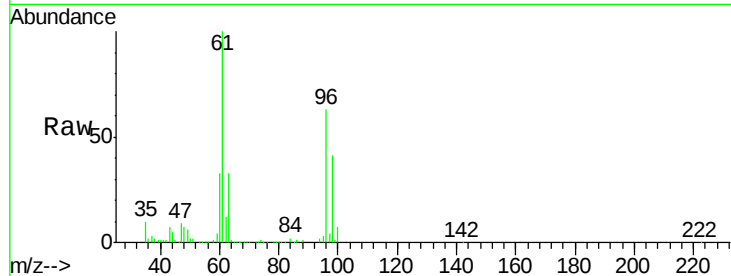
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	88496
Ion	Ratio	Lower	Upper
96	100		
61	158.0	131.8	197.8
98	64.6	47.4	71.0

Manual Integrations
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MMDadoda
1/21/2019 11:10:53 AM



#22

Diisopropyl ether

Concen: 46.611 ug/l

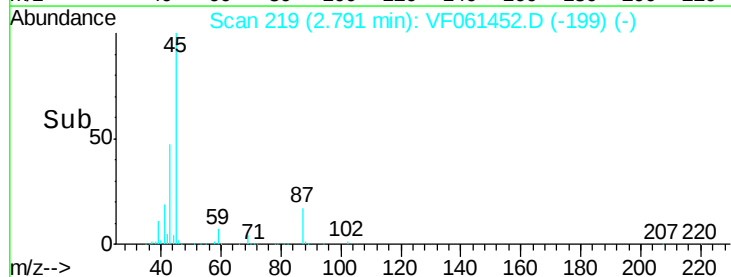
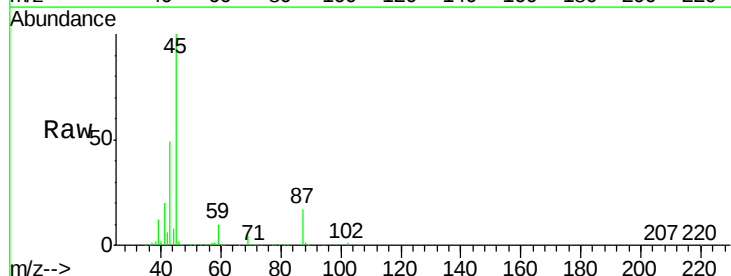
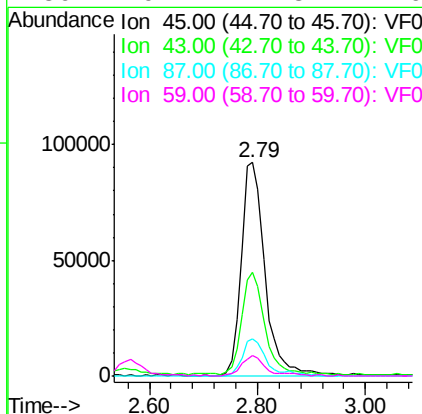
RT: 2.79 min Scan# 219

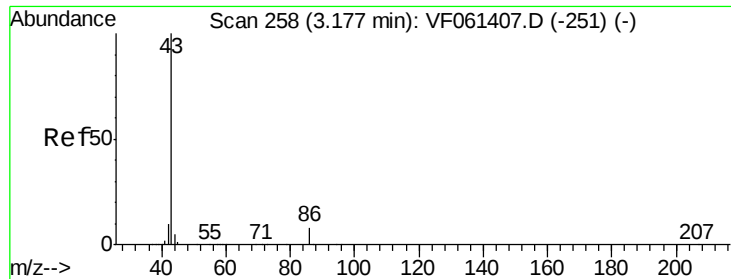
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	45	Resp:	278966
Ion	Ratio	Lower	Upper
45	100		
43	48.8	39.0	58.6
87	17.3	13.9	20.9
59	9.7	7.8	11.6





#23

Vinyl Acetate

Concen: 259.612 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 683758

Ion Ratio Lower Upper

43 100

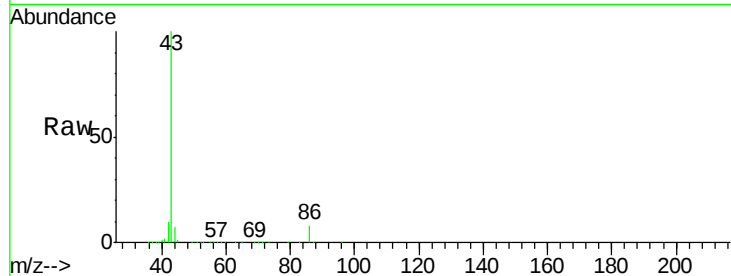
86 7.8 6.2 9.4

Manual Integrations

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1/21/2019 11:10:53 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

250000

200000

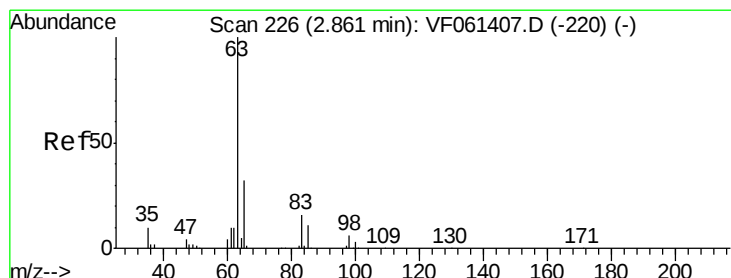
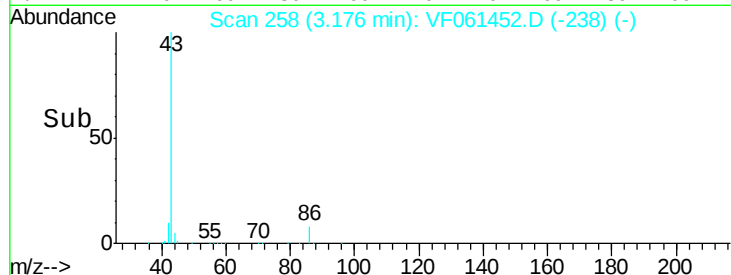
150000

100000

50000

0

Time--> 3.00 3.10 3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 45.375 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

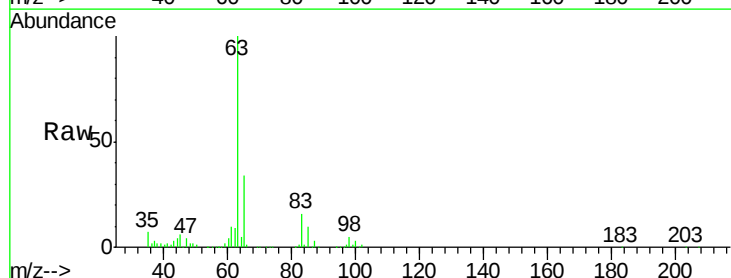
Tgt Ion: 63 Resp: 170444

Ion Ratio Lower Upper

63 100

98 4.9 2.9 8.8

100 3.2 1.6 4.8



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.86

80000

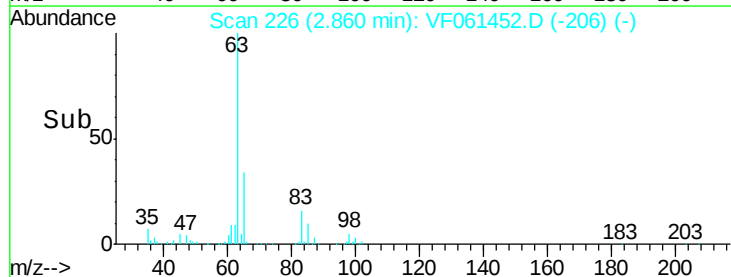
60000

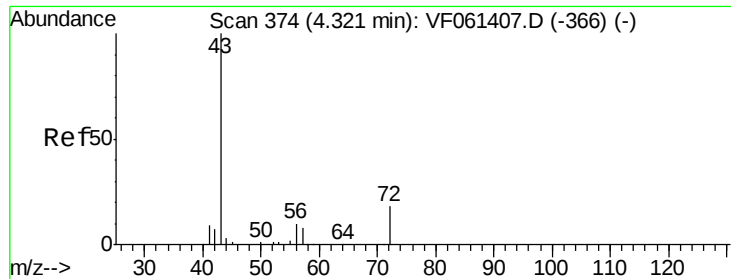
40000

20000

0

Time--> 2.70 2.80 2.90 3.00





#25

2-Butanone

Concen: 263.420 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tot Ion: 43 Resp: 205167

Ion Ratio Lower Upper

43 100

72 17.1 15.8 23.6

Instrument :

MSVOA_F

ClientSampleId :

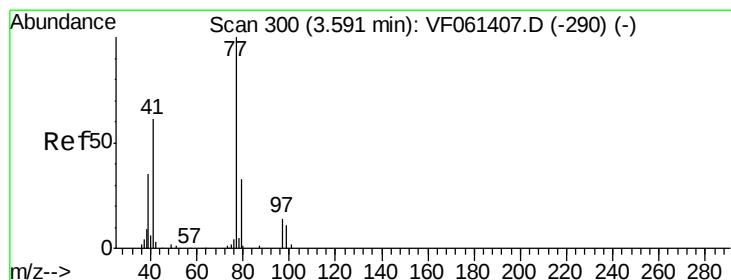
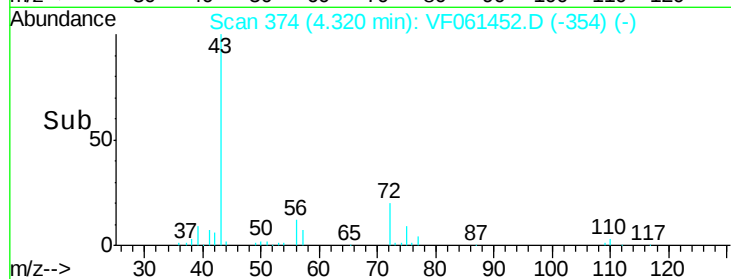
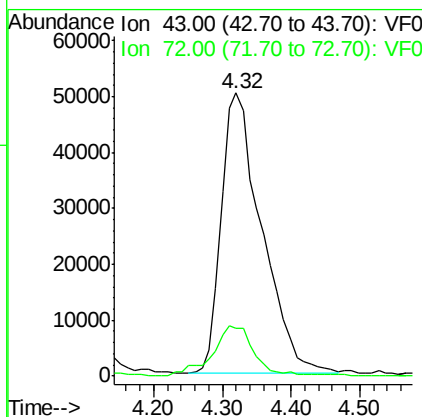
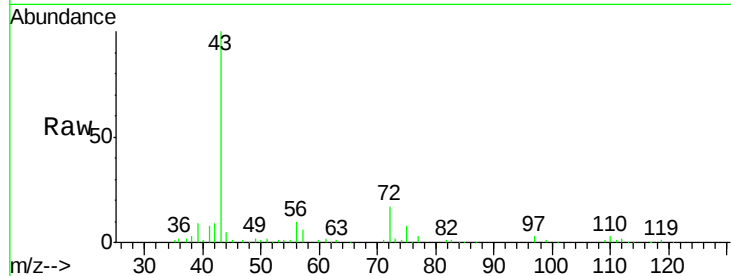
VSTDCCC050

Manual Integrations

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MMDadoda

1/21/2019 11:10:53 AM



#26

2,2-Dichloropropane

Concen: 45.762 ug/l

RT: 3.59 min Scan# 300

Delta R.T. 0.00 min

Lab File: VF061452.D

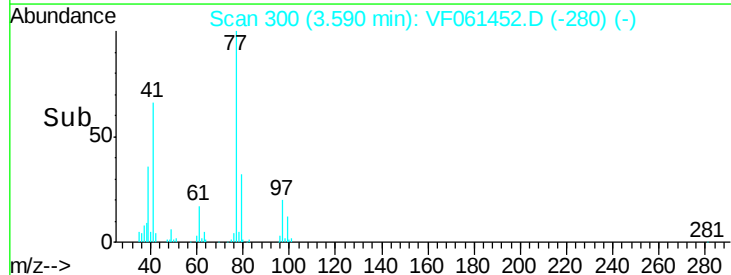
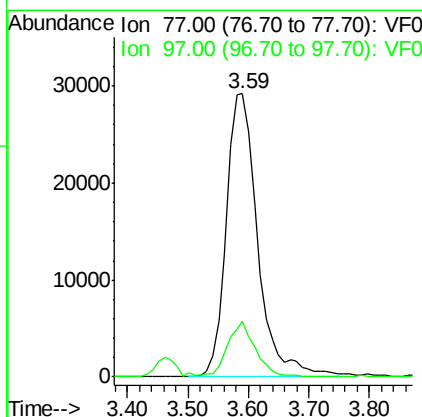
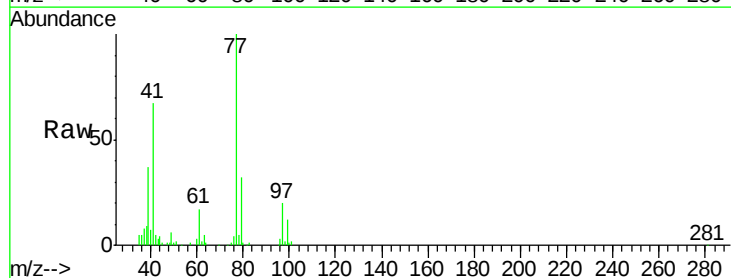
Acq: 18 Jan 2019 11:24

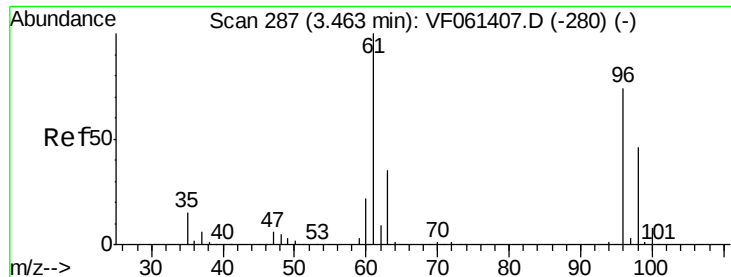
Tgt Ion: 77 Resp: 105614

Ion Ratio Lower Upper

77 100

97 19.8 8.5 25.5





#27

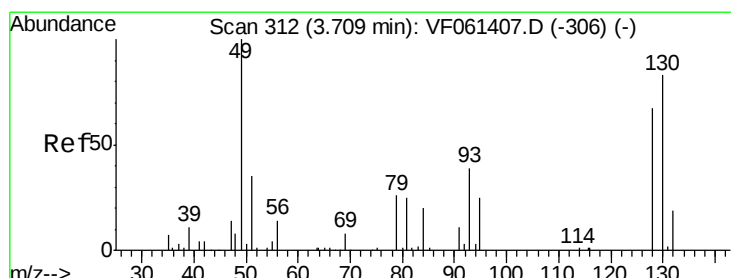
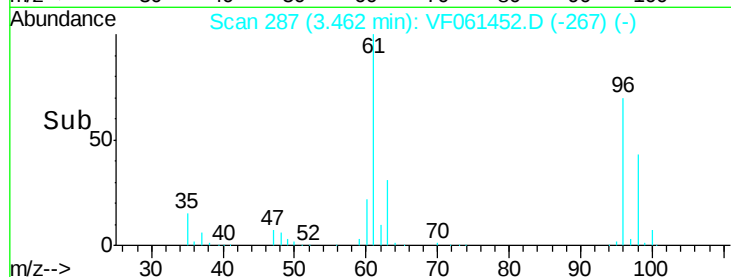
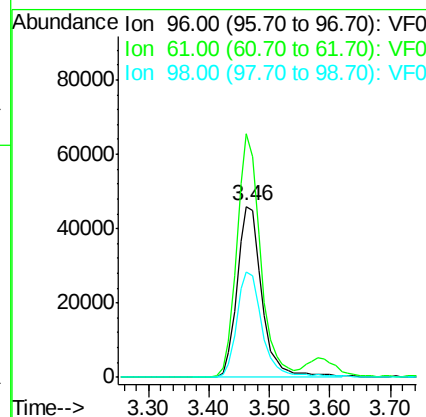
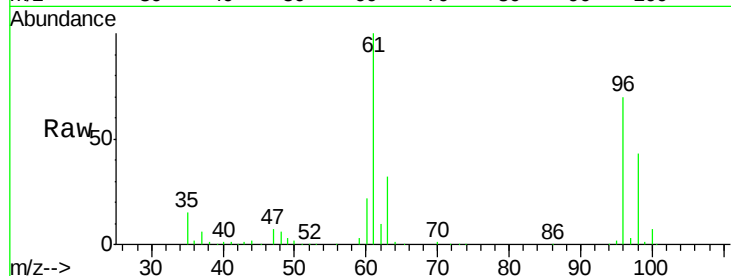
cis-1,2-Dichloroethene
Concen: 48.314 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	131968		
61	142.5	0.0	270.2	
98	61.4	0.0	124.0	

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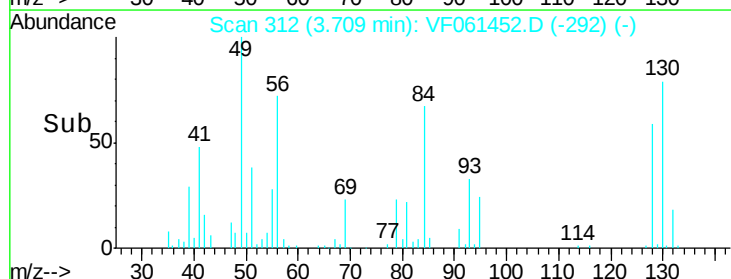
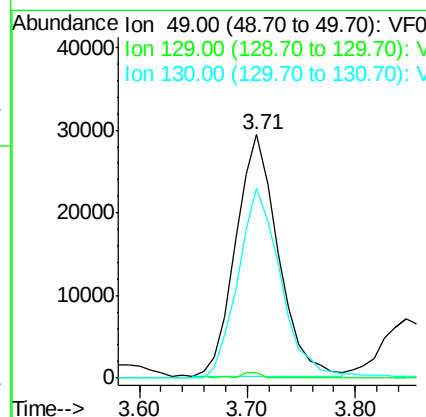
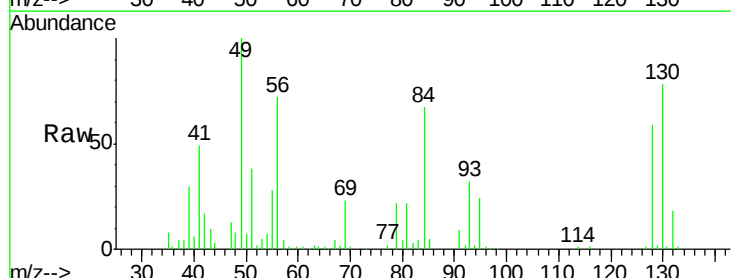
MMDadoda
1/21/2019 11:10:53 AM

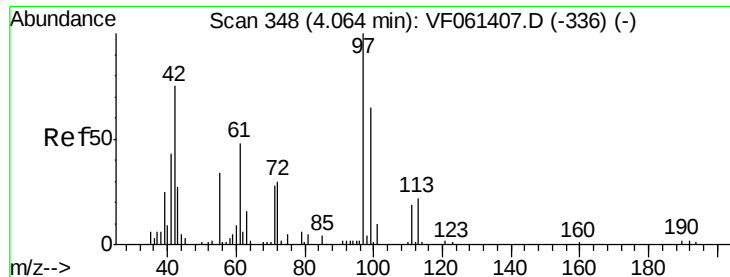


#28

Bromochloromethane
Concen: 47.224 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	79738		
129	2.2	0.0	0.0#	
130	78.2	65.4	98.2	





#29

Tetrahydrofuran

Concen: 252.807 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

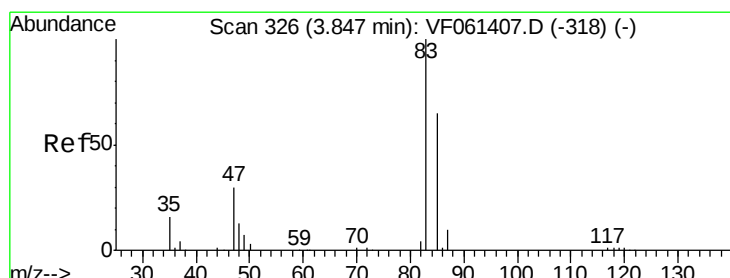
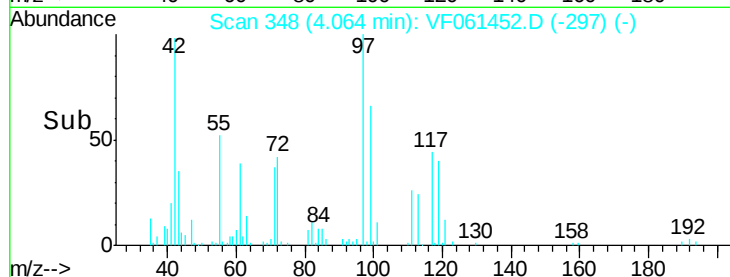
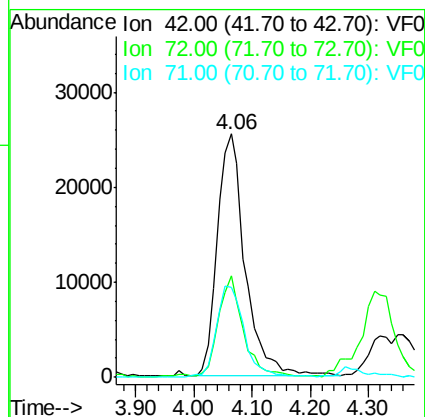
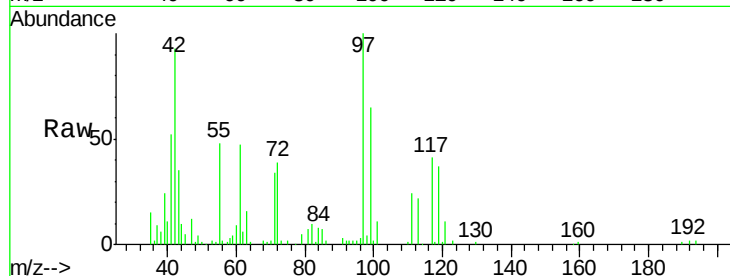
ClientSampleId :

VSTDCCC050

Tot Ion:	42	Resp:	84784
Ion	Ratio	Lower	Upper
42	100		
72	36.5	28.9	43.3
71	37.2	29.6	44.4

Manual Integrations
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1/21/2019 11:10:53 AM



#30

Chloroform

Concen: 44.524 ug/l

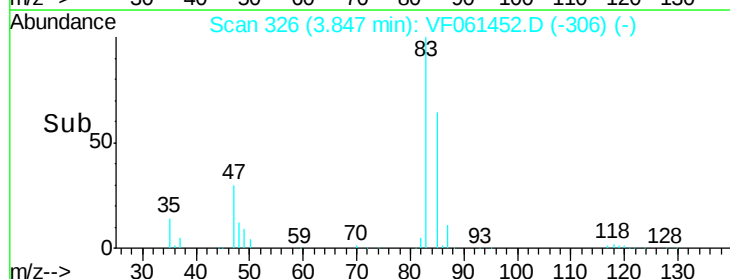
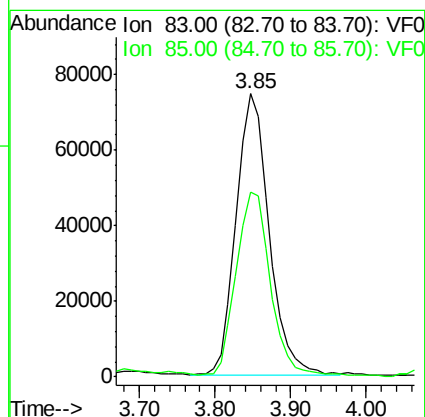
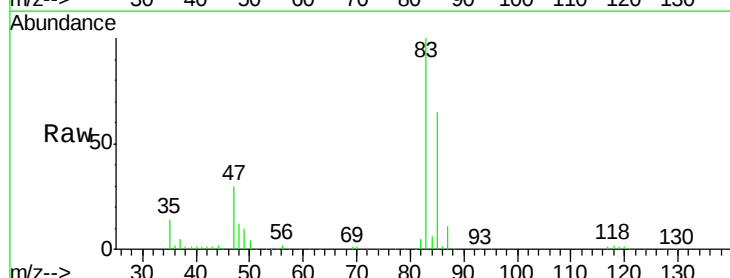
RT: 3.85 min Scan# 326

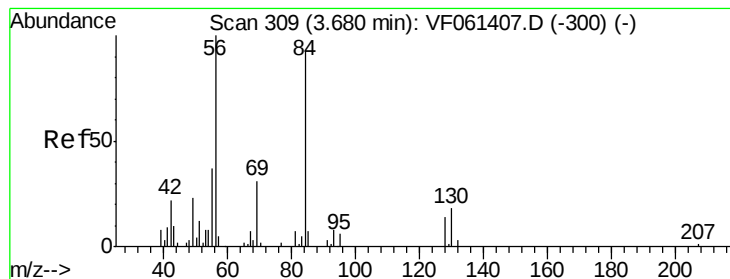
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	83	Resp:	225714
Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.7	79.1





#31

Cyclohexane

Concen: 48.040 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

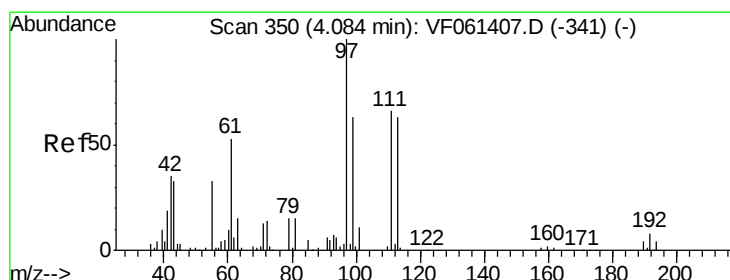
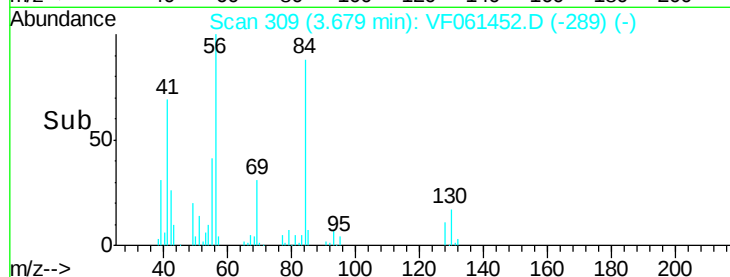
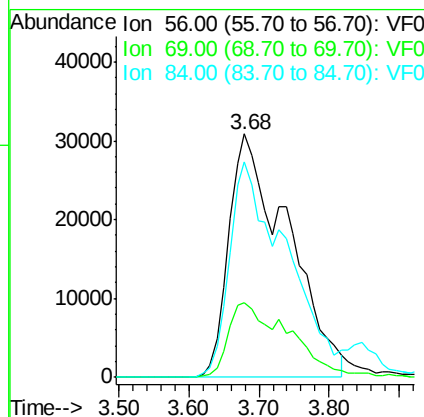
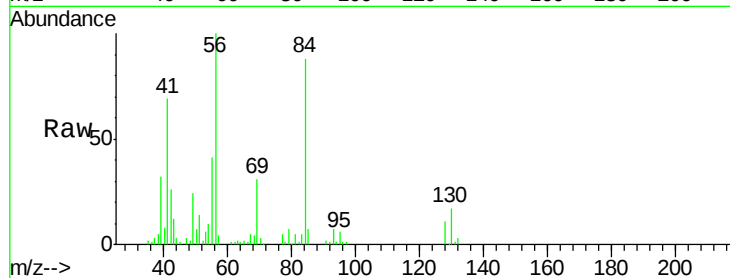
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	180259
Ion Ratio	Lower	Upper	
56	100		
69	30.7	24.6	36.8
84	88.3	74.2	111.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 47.813 ug/l

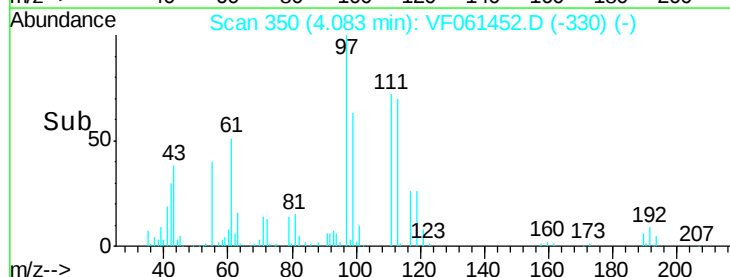
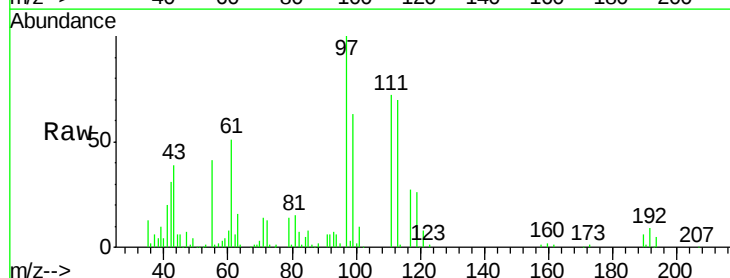
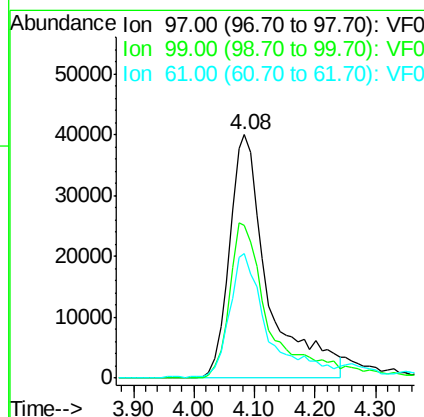
RT: 4.08 min Scan# 350

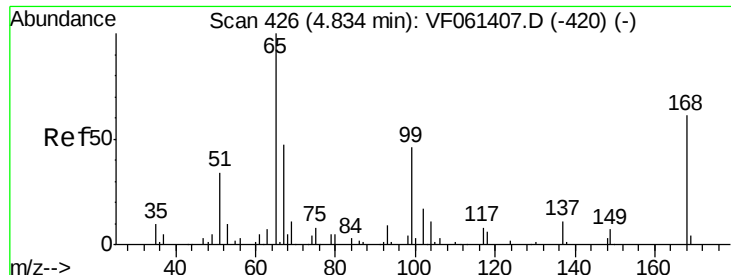
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	97	Resp:	177727
Ion Ratio	Lower	Upper	
97	100		
99	62.9	50.1	75.1
61	51.0	43.1	64.7





#33

1,2-Dichloroethane-d4

Concen: 50.082 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tot Ion: 65 Resp: 116924

Ion Ratio Lower Upper

65 100

67 47.8 0.0 99.8

Instrument :

MSVOA_F

ClientSampleId :

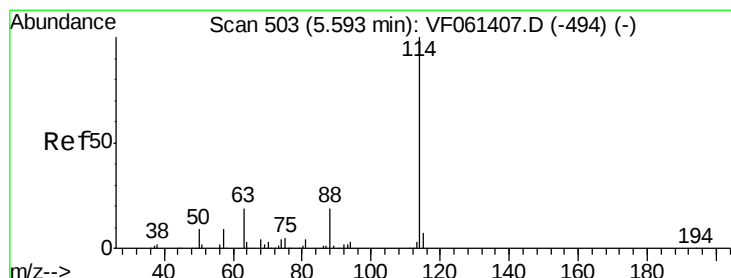
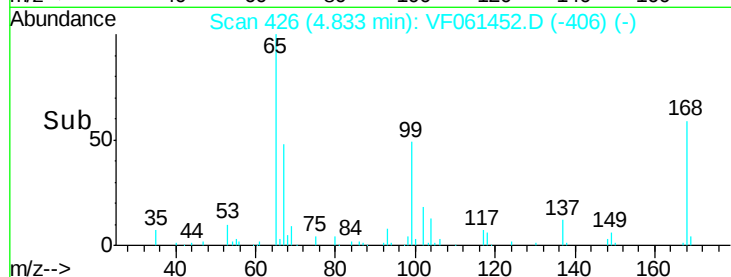
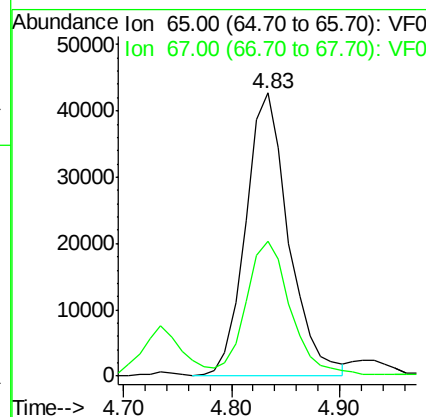
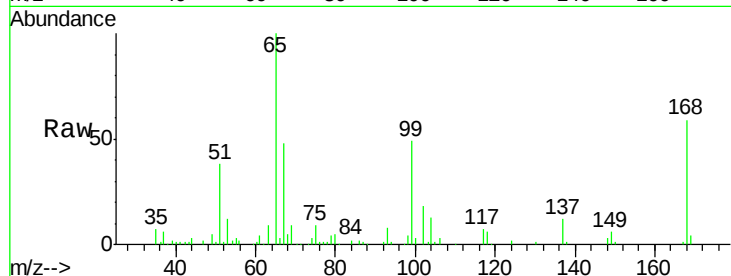
VSTDCCC050

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

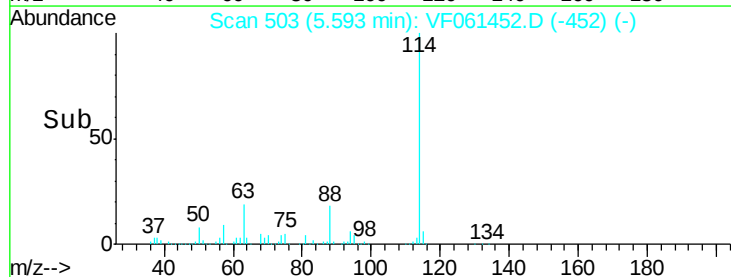
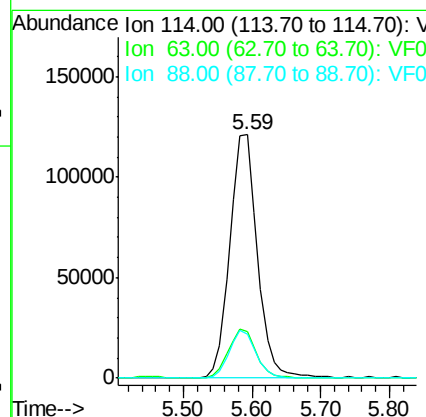
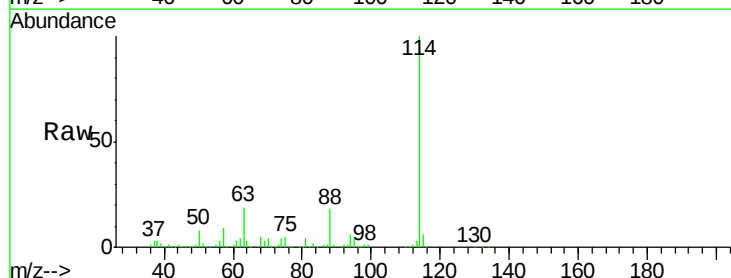
Tgt Ion: 114 Resp: 336532

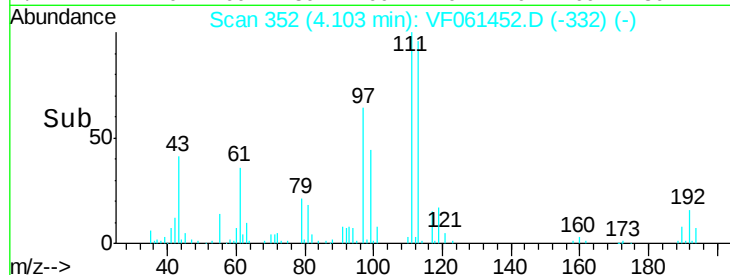
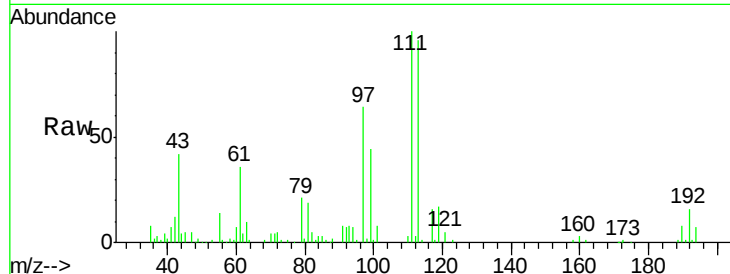
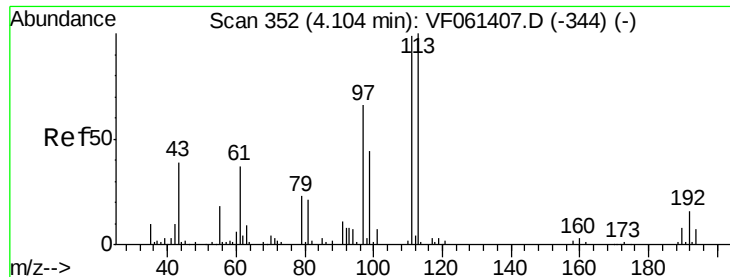
Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.0

88 18.0 0.0 37.4





#35

Dibromofluoromethane

Concen: 48.508 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061452.D

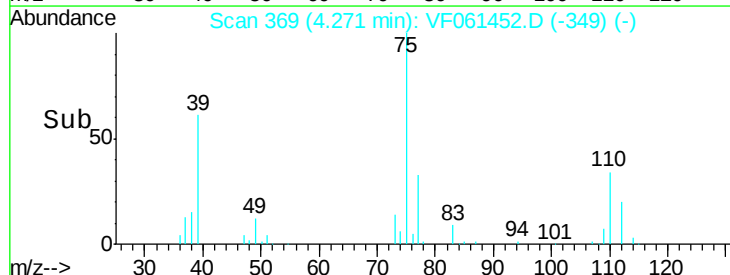
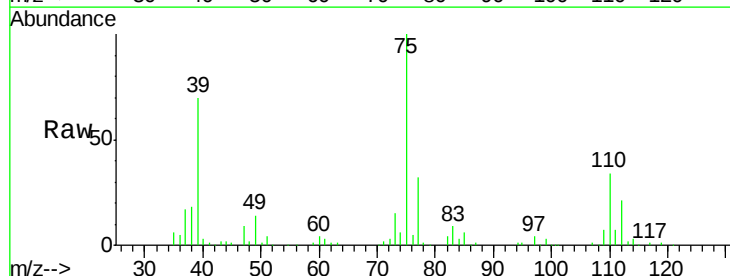
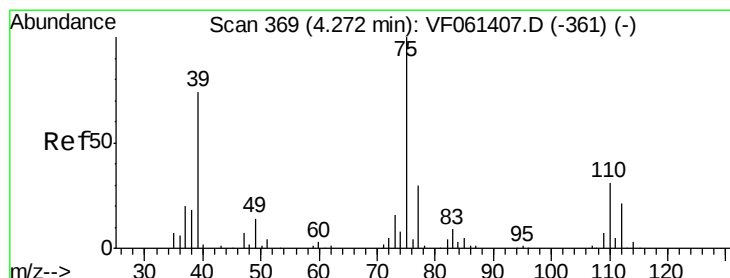
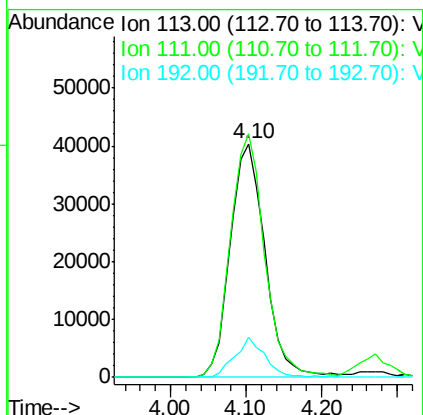
Acq: 18 Jan 2019 11:24

Tot Ion:	113	Resp:	128814
Ion Ratio	Lower	Upper	
113	100		
111	104.3	79.4	119.0
192	17.2	12.4	18.6

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 45.385 ug/l

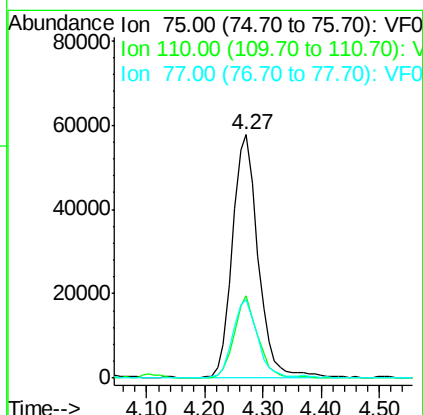
RT: 4.27 min Scan# 369

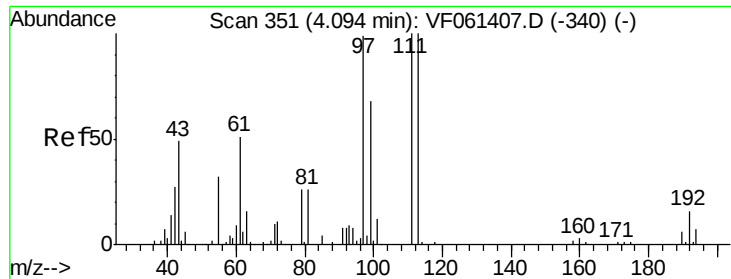
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	75	Resp:	177087
Ion Ratio	Lower	Upper	
75	100		
110	33.8	15.8	47.3
77	32.3	24.0	36.0





#37

Ethyl Acetate

Concen: 48.312 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

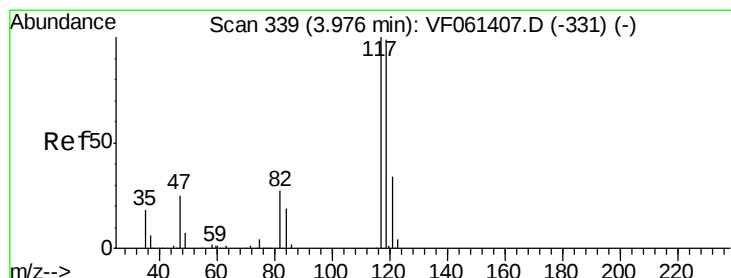
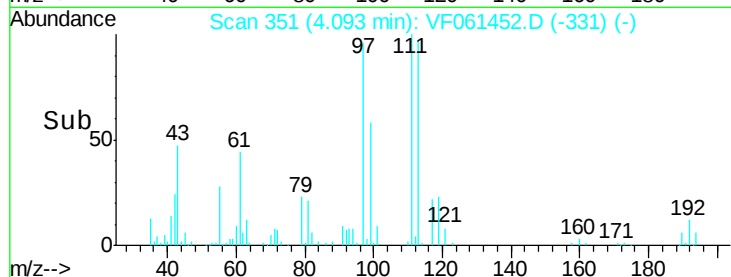
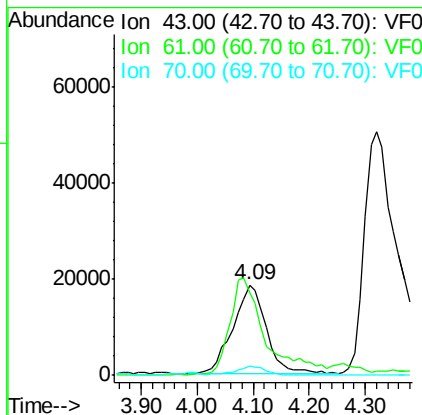
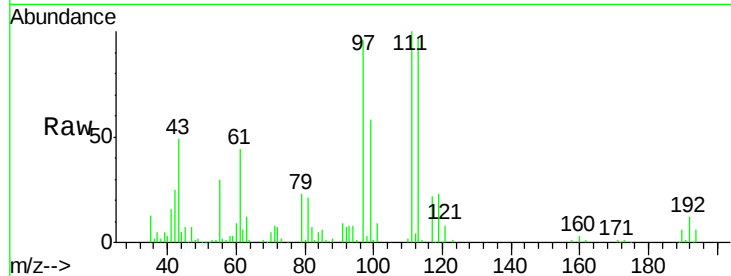
ClientSampleId :

VSTDCCC050

Tot Ion:	43	Resp:	75353
Ion	Ratio	Lower	Upper
43	100		
61	90.6	81.7	122.5
70	10.4	6.2	9.2#

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#38

Carbon Tetrachloride

Concen: 46.472 ug/l

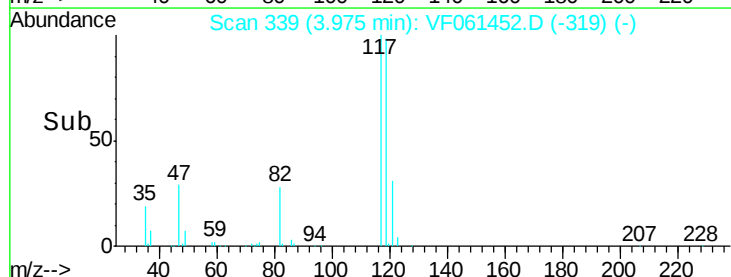
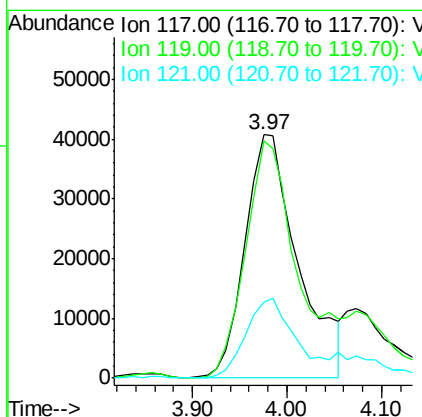
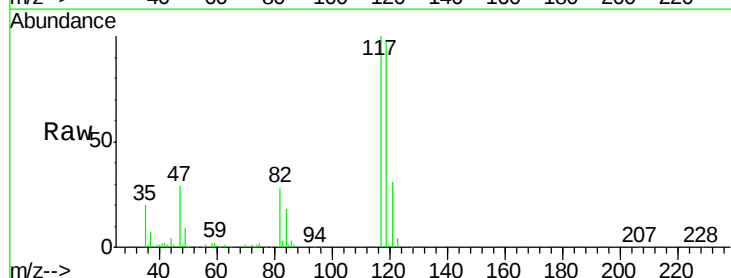
RT: 3.97 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	117	Resp:	158525
Ion	Ratio	Lower	Upper
117	100		
119	97.6	79.0	118.6
121	31.2	27.0	40.6





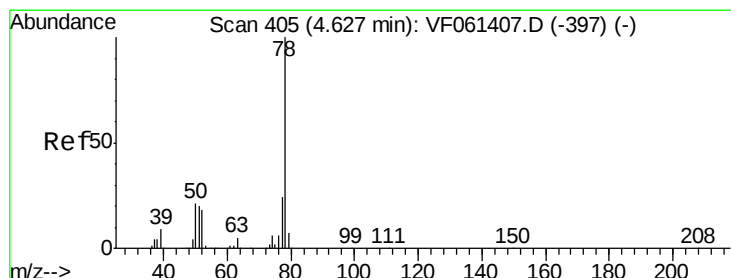
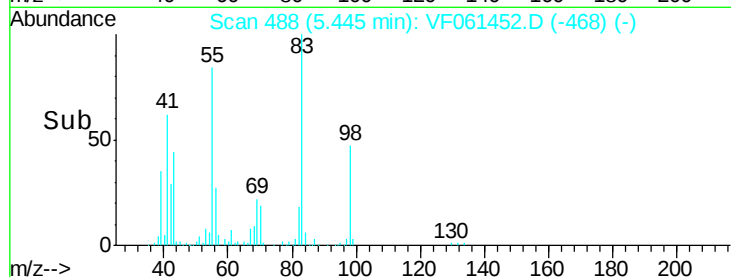
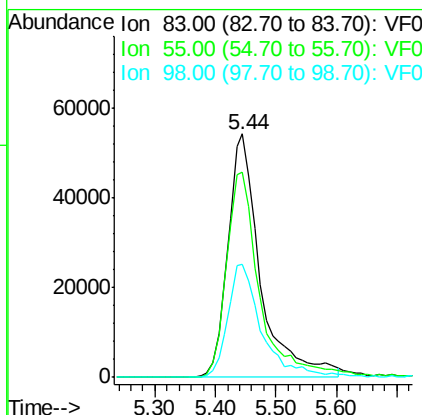
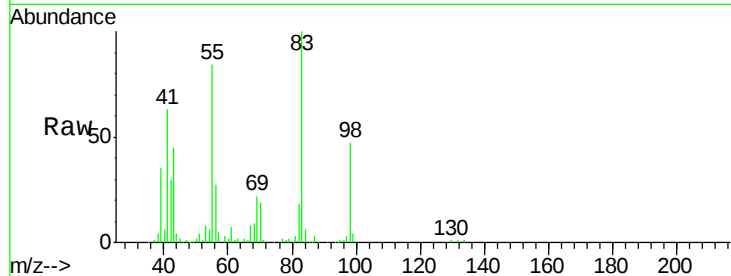
#39
Methvlcvclohexane
Concen: 48.074 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100	203286		
55	84.4		67.4	101.2
98	46.7		36.7	55.1

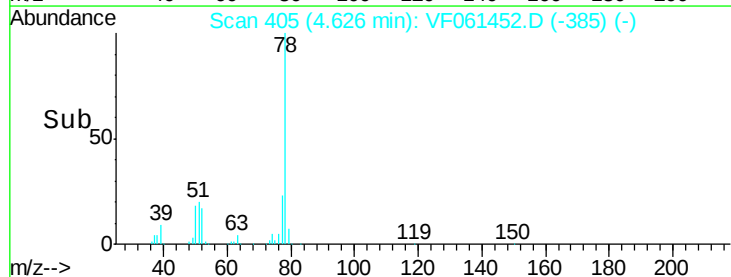
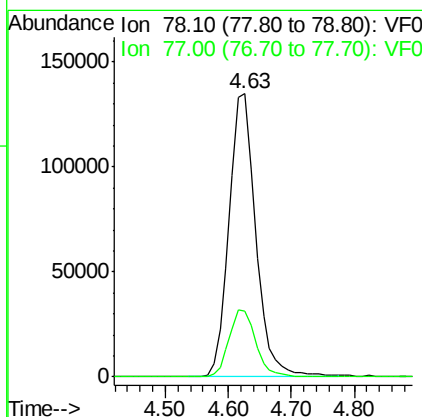
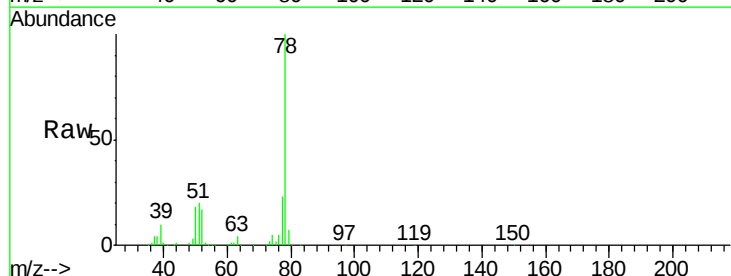
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1/21/2019 11:10:53 AM



#40
Benzene
Concen: 45.763 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	397336		
77	23.1		19.0	28.6





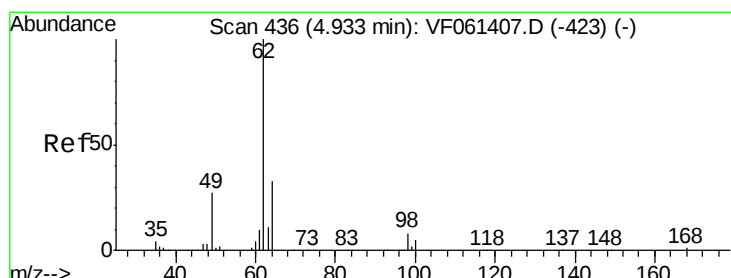
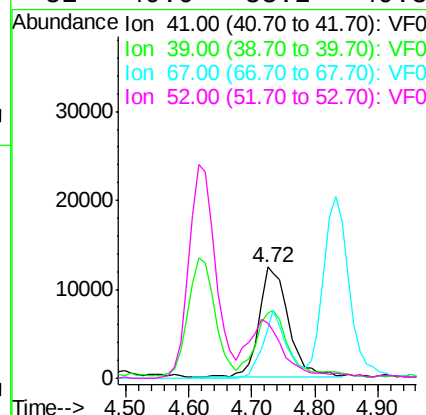
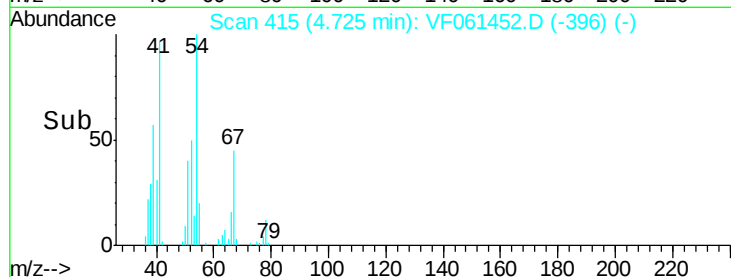
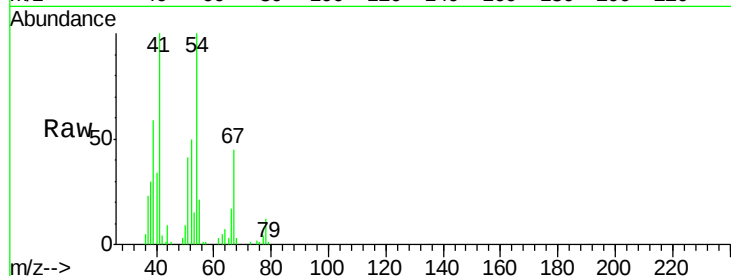
#41
Methacrylonitrile
Concen: 48.204 ug/l
RT: 4.72 min Scan# 415
Delta R.T. -0.01 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	58.7	43.1	64.7
67	45.3	38.8	58.2
52	49.9	33.2	49.8

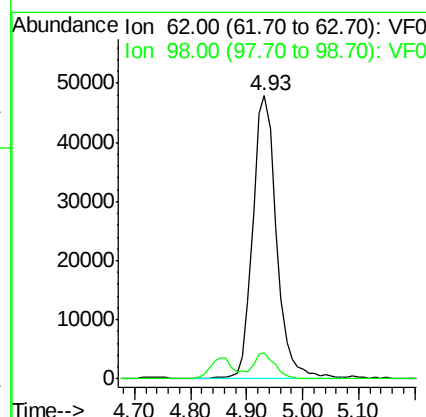
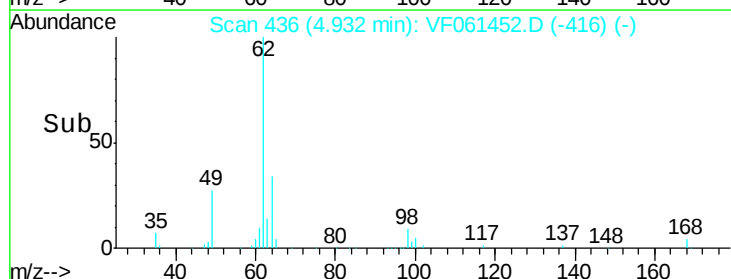
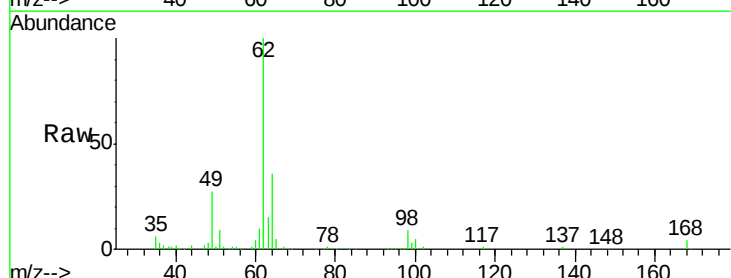
Manual Integrations
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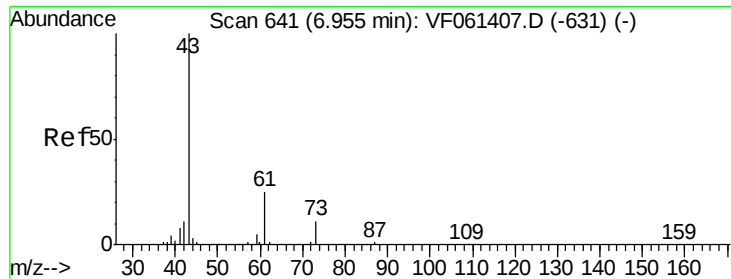
MMDadoda
1/21/2019 11:10:53 AM



#42
1,2-Dichloroethane
Concen: 45.801 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	17.0





#43

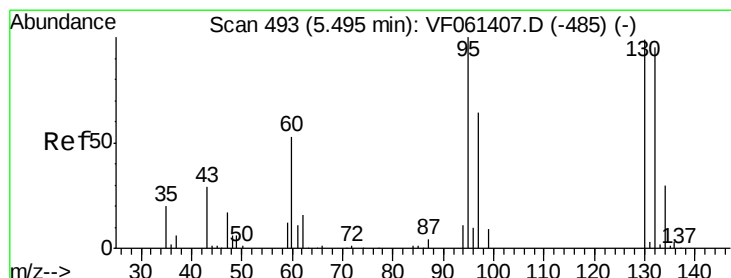
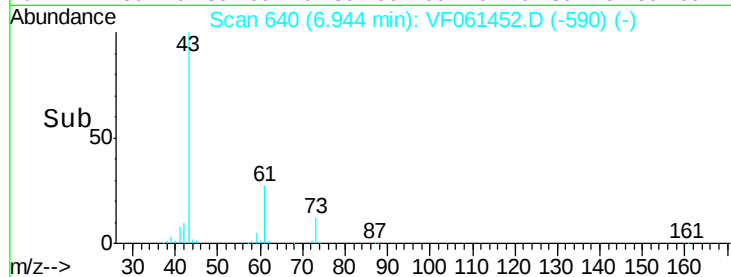
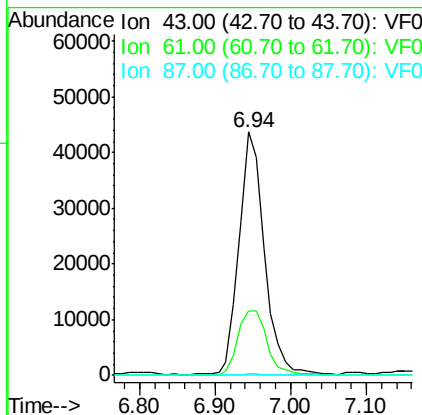
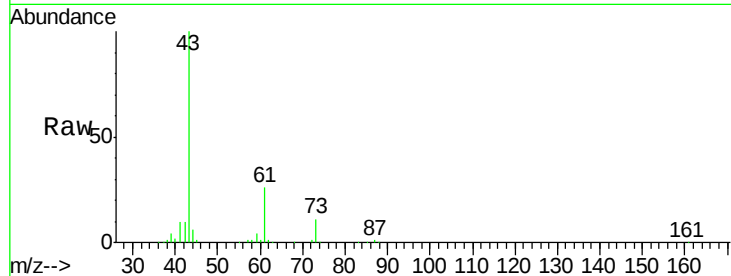
Isopropyl Acetate
 Concen: 51.536 ug/l
 RT: 6.94 min Scan# 640
 Delta R.T. -0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.3	20.3	30.5
87	0.7	0.5	0.7#

Manual Integrations
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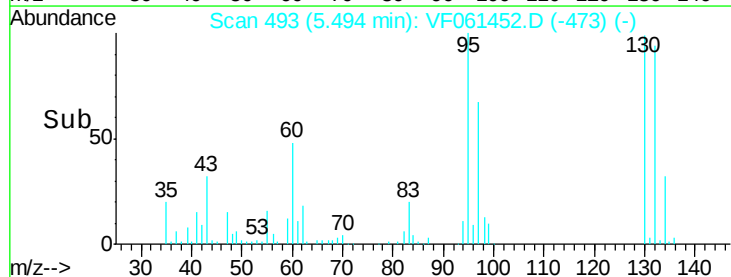
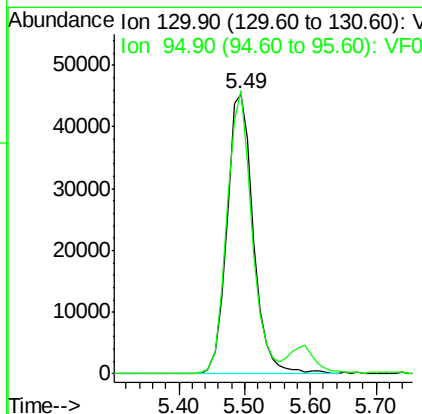
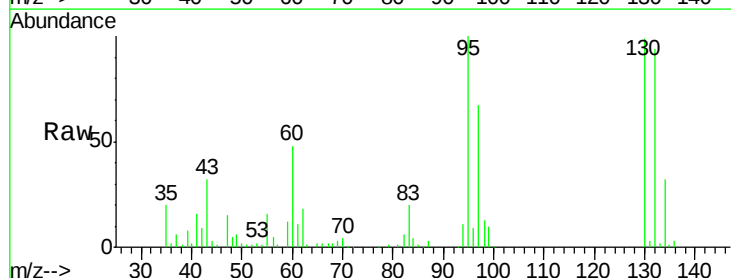
MMDadoda
 1/21/2019 11:10:53 AM

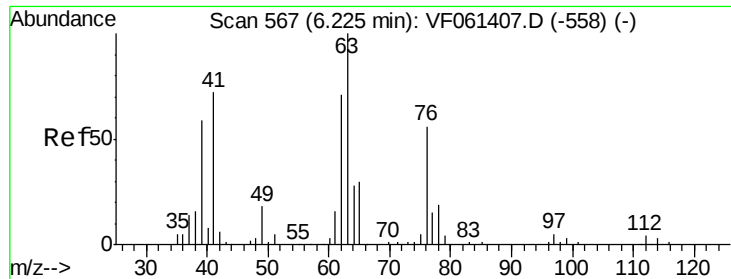


#44

Trichloroethene
 Concen: 47.824 ug/l
 RT: 5.49 min Scan# 493
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	202.8





#45

1,2-Dichloropropane

Concen: 49.027 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 111720

Ion Ratio Lower Upper

63 100

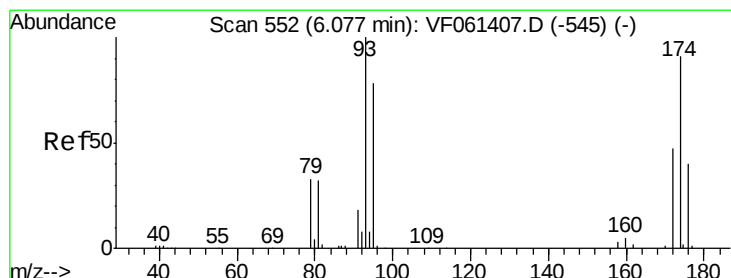
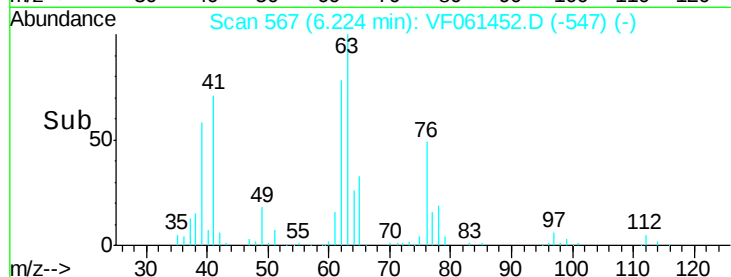
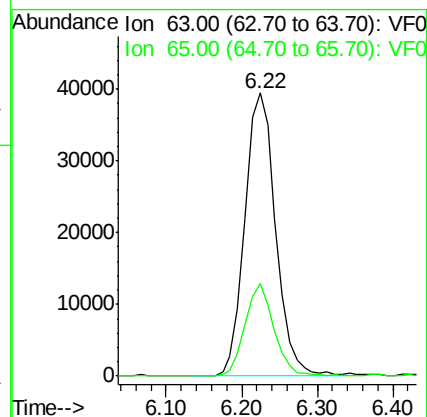
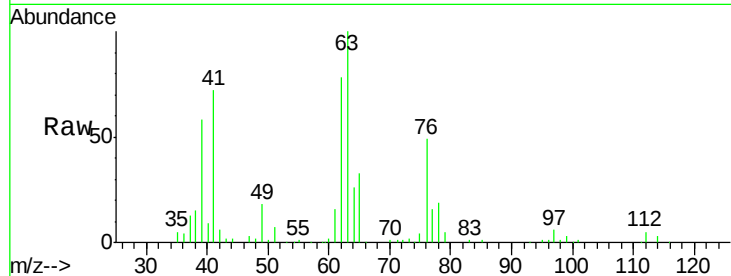
65 32.8 24.4 36.6

Manual Integrations

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#46

Dibromomethane

Concen: 48.415 ug/l

RT: 6.08 min Scan# 552

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

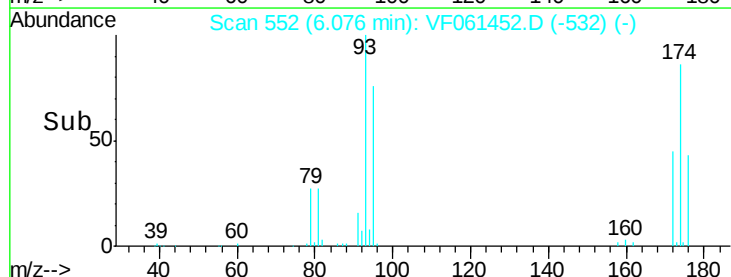
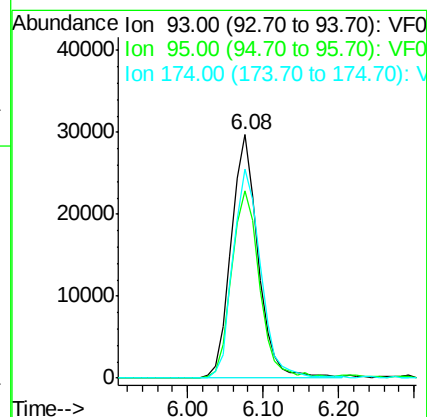
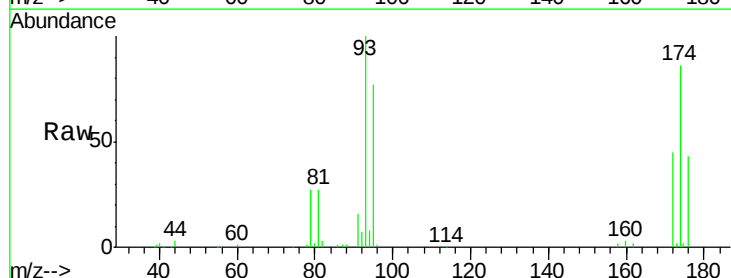
Tgt Ion: 93 Resp: 73359

Ion Ratio Lower Upper

93 100

95 77.1 62.1 93.1

174 88.0 74.6 111.8





#47

Bromodichloromethane

Concen: 47.564 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

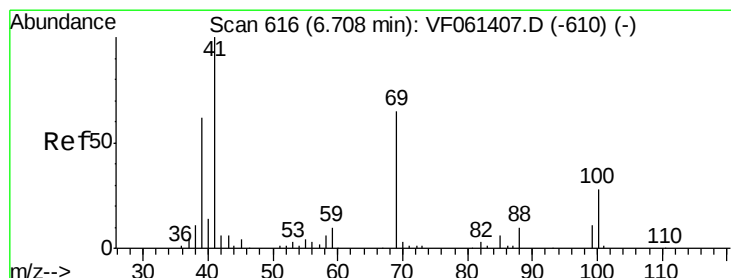
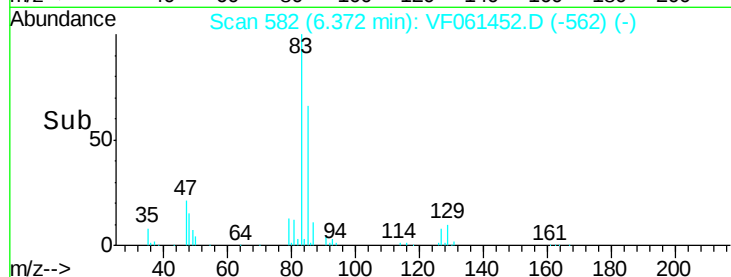
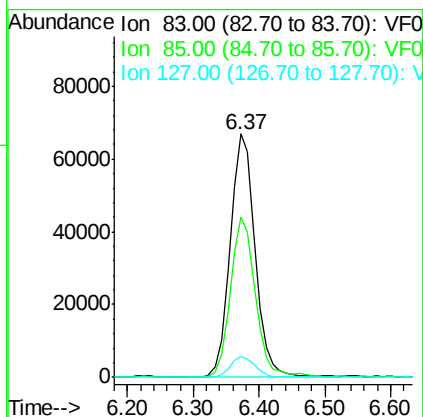
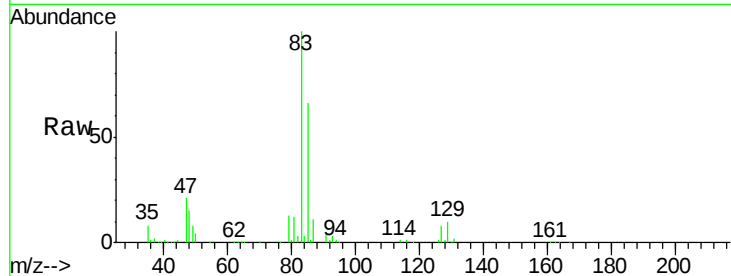
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	178316
Ion Ratio	Lower	Upper	
83	100		
85	66.1	53.0	79.4
127	8.5	6.9	10.3

Manual Integrations
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1/21/2019 11:10:53 AM



#48

Methyl methacrylate

Concen: 47.659 ug/l

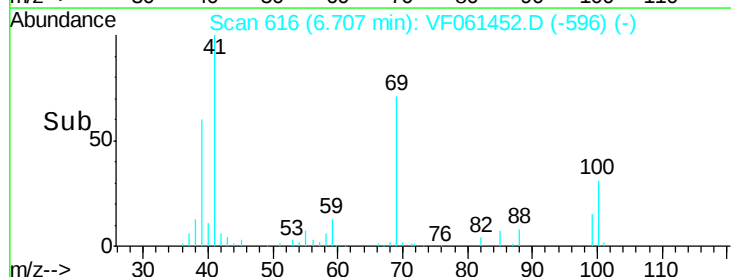
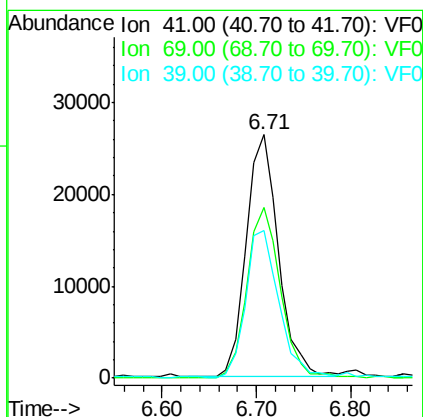
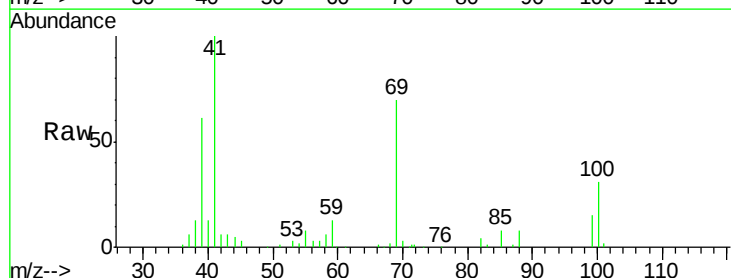
RT: 6.71 min Scan# 616

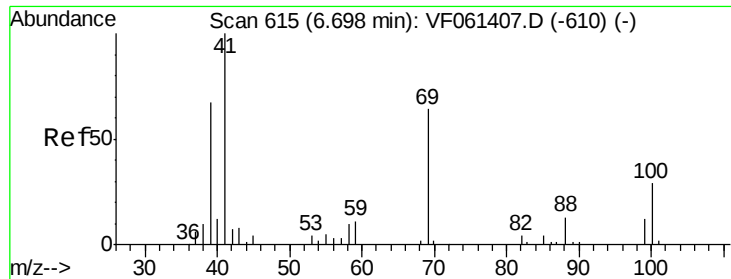
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	41	Resp:	62648
Ion Ratio	Lower	Upper	
41	100		
69	70.2	51.7	77.5
39	60.7	49.2	73.8





#49

1,4-Dioxane

Concen: 981.636 ug/l

RT: 6.69 min Scan# 614

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

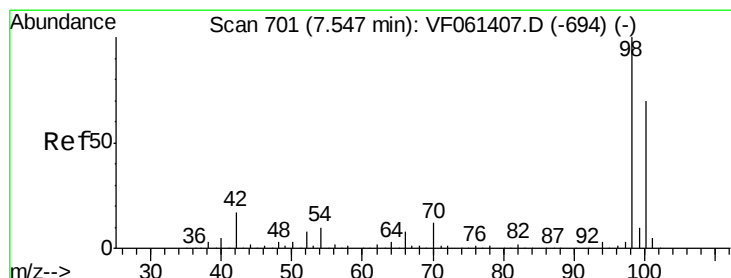
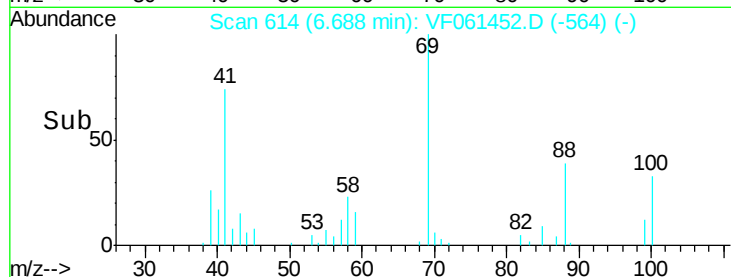
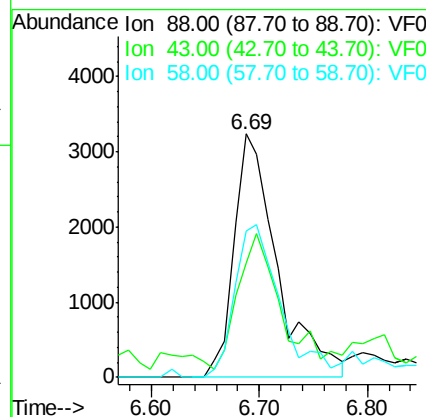
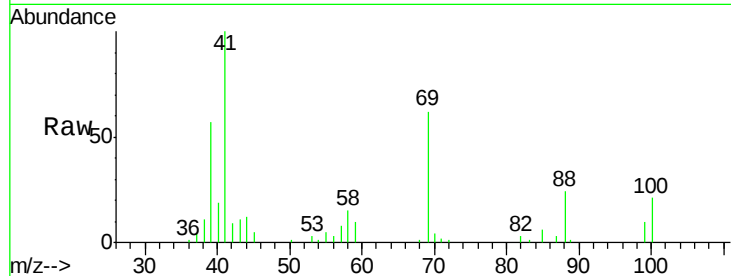
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
88	100	9019		
43	47.0		55.5	83.3#
58	59.9		59.9	89.9

Manual Integrations
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#50

Toluene-d8

Concen: 52.242 ug/l

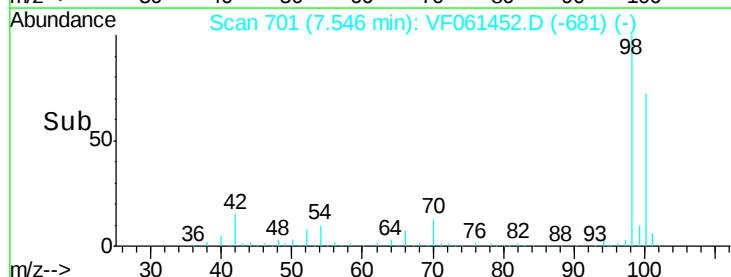
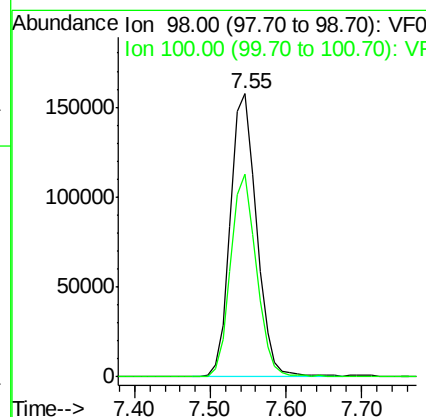
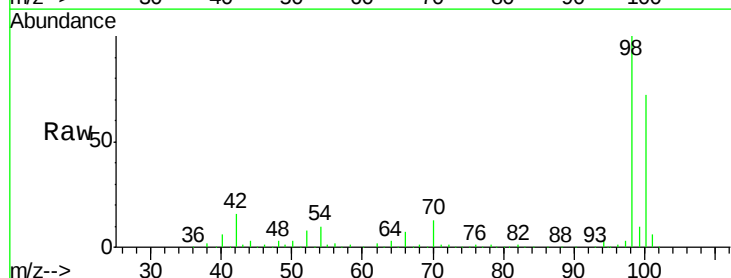
RT: 7.55 min Scan# 701

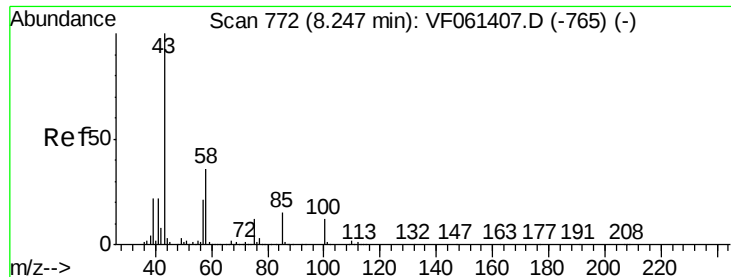
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	380098		
100	71.7		55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 247.834 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 356663

Ion Ratio Lower Upper

43 100

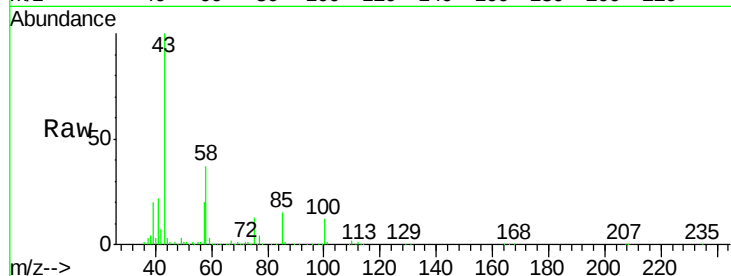
58 37.1 28.8 43.2

Manual Integrations

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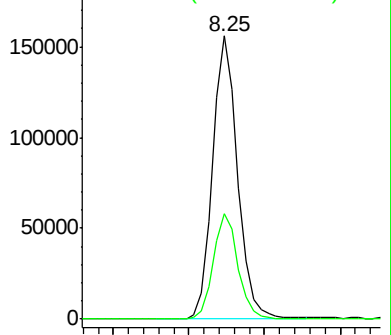
MMDadoda

1/21/2019 11:10:53 AM

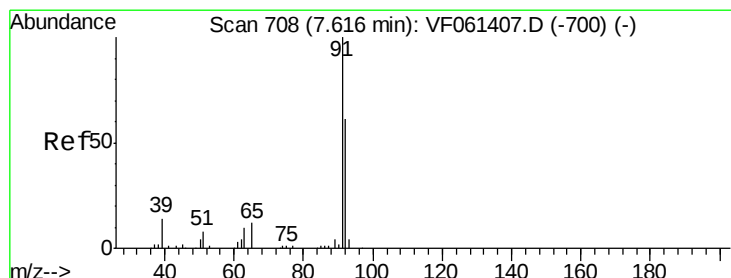
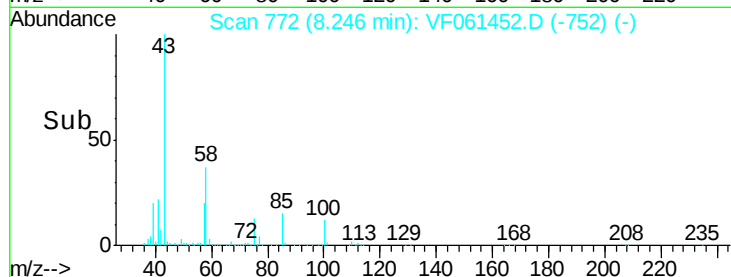


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#52

Toluene

Concen: 43.820 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061452.D

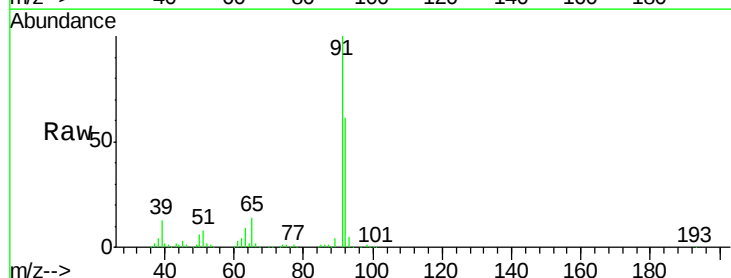
Acq: 18 Jan 2019 11:24

Tgt Ion: 92 Resp: 250550

Ion Ratio Lower Upper

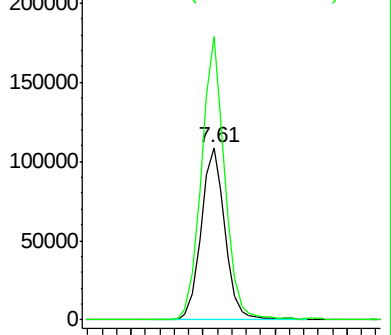
92 100

91 164.1 131.2 196.8

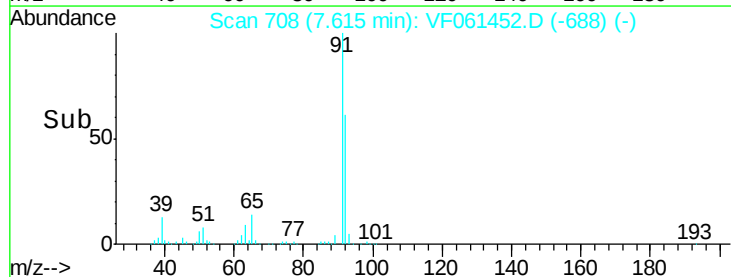


Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



Time-->





#53

t-1,3-Dichloropropene

Concen: 46.944 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 139748

Ion Ratio Lower Upper

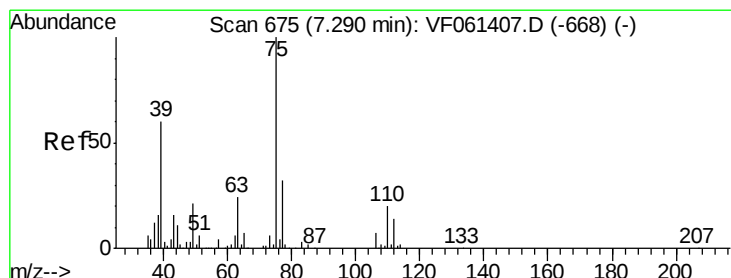
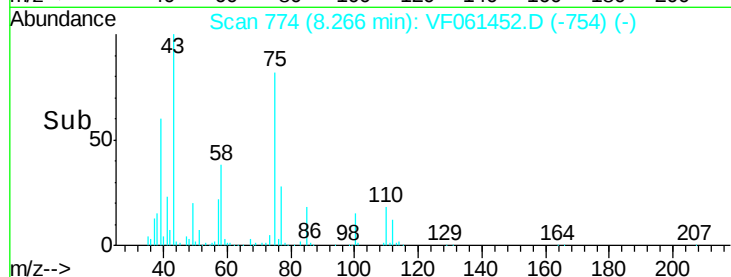
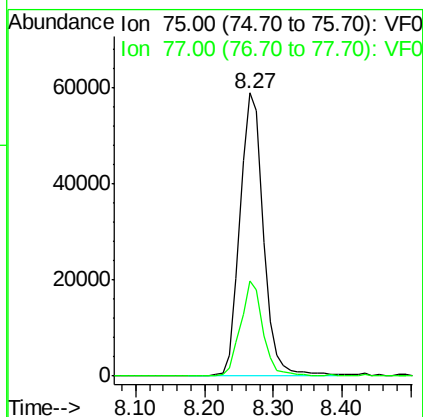
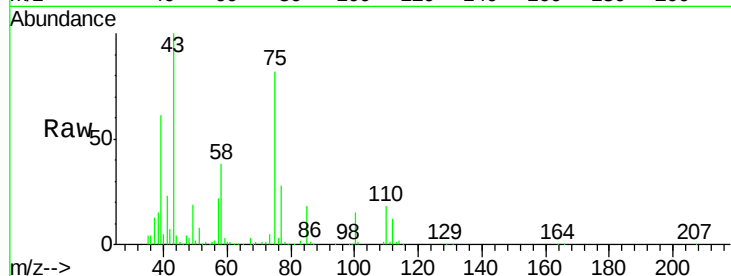
75 100

77 33.8 24.4 36.6

Manual Integrations
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1/21/2019 11:10:53 AM



#54

cis-1,3-Dichloropropene

Concen: 50.780 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

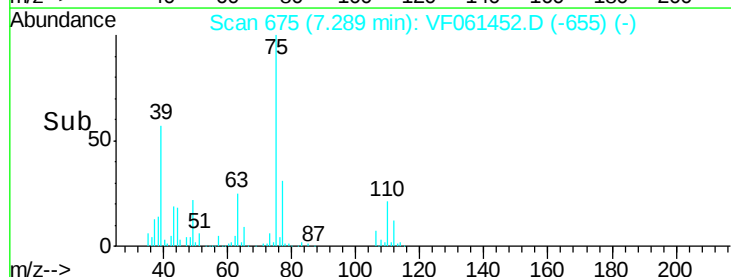
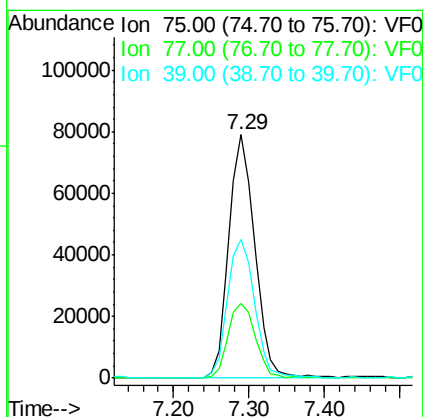
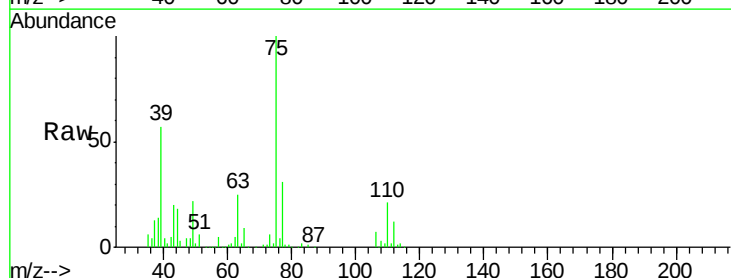
Tgt Ion: 75 Resp: 188953

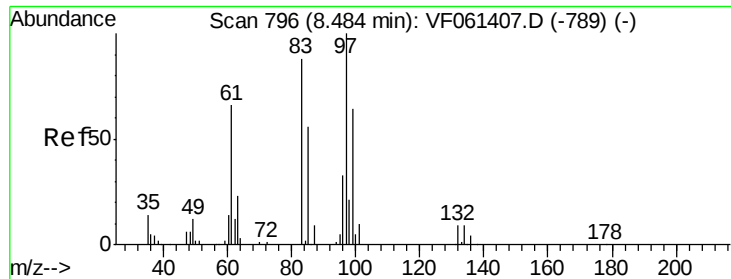
Ion Ratio Lower Upper

75 100

77 30.6 25.4 38.0

39 57.2 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 50.665 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

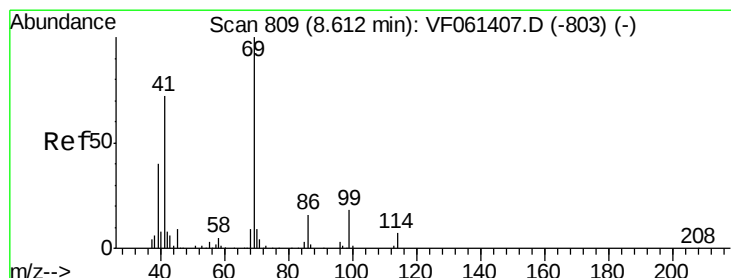
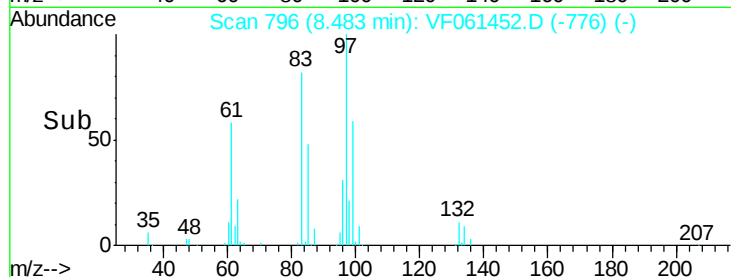
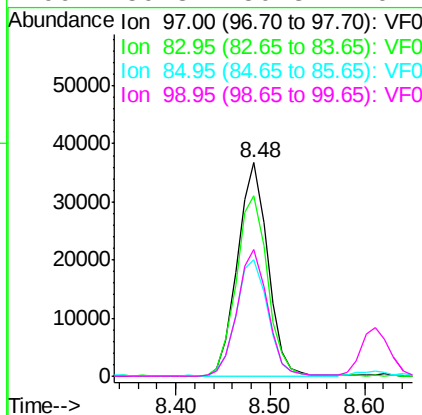
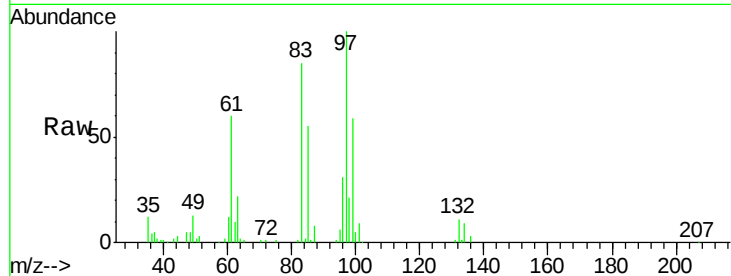
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	82263
Ion	Ratio	Lower	Upper
97	100		
83	84.5	70.4	105.6
85	54.7	44.7	67.1
99	59.3	50.8	76.2

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1/21/2019 11:10:53 AM



#56

Ethyl methacrylate

Concen: 50.295 ug/l

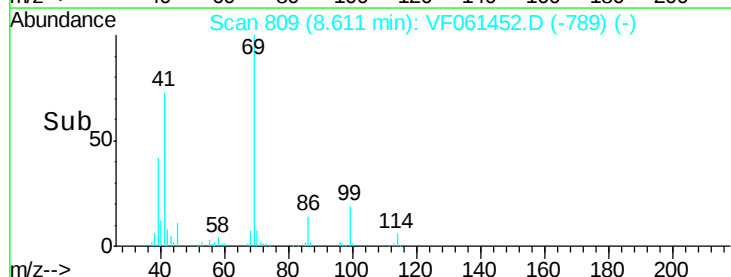
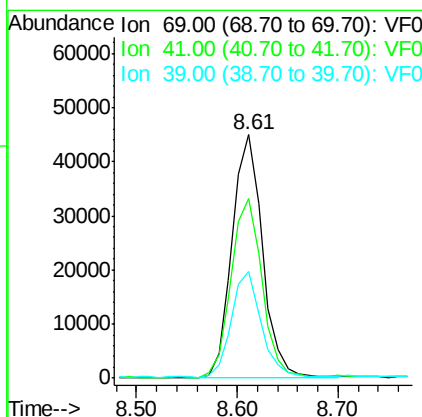
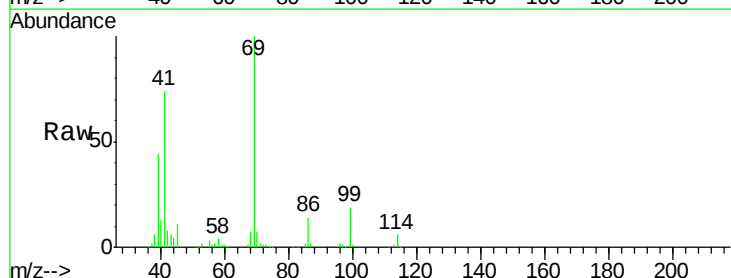
RT: 8.61 min Scan# 809

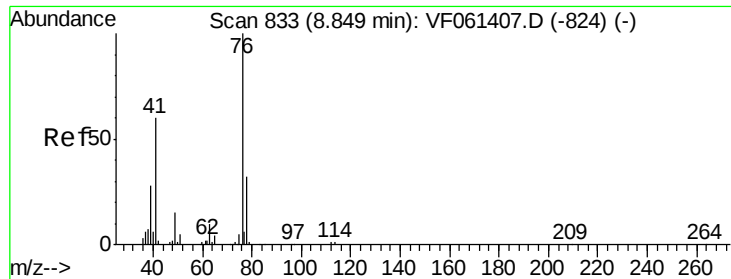
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	69	Resp:	95008
Ion	Ratio	Lower	Upper
69	100		
41	73.6	57.5	86.3
39	43.6	32.0	48.0





#57

1,3-Dichloropropane

Concen: 48.090 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 146354

Ion Ratio Lower Upper

76 100

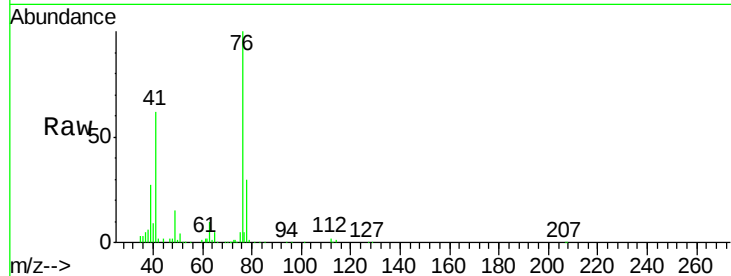
78 30.3 25.3 37.9

Manual Integrations

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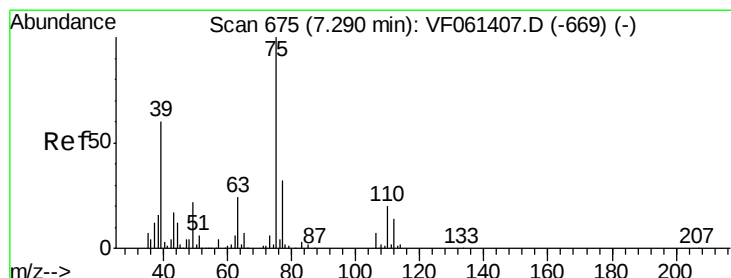
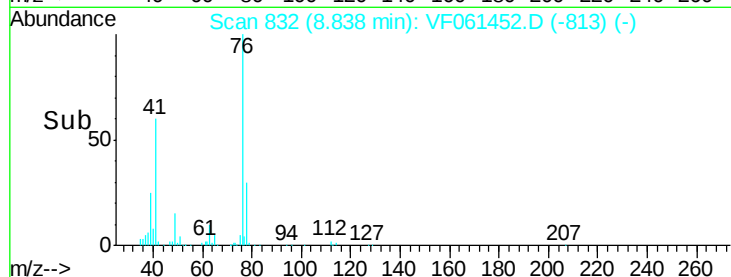
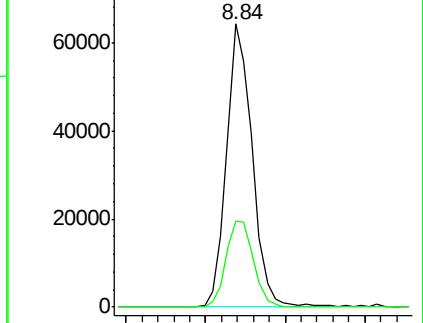
MMDadoda

1/21/2019 11:10:53 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 246.906 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.01 min

Lab File: VF061452.D

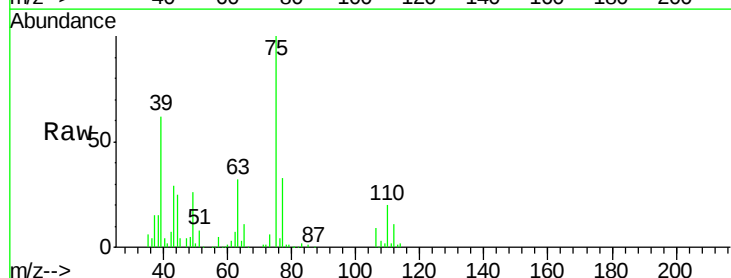
Acq: 18 Jan 2019 11:24

Tgt Ion: 63 Resp: 48833

Ion Ratio Lower Upper

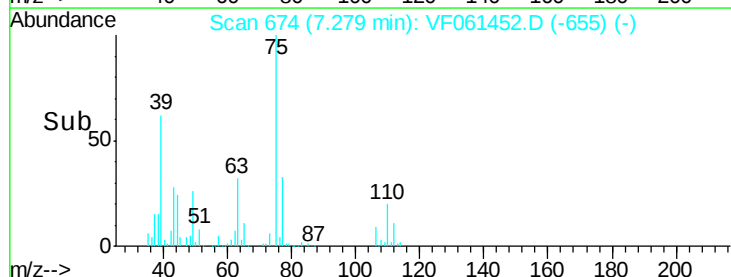
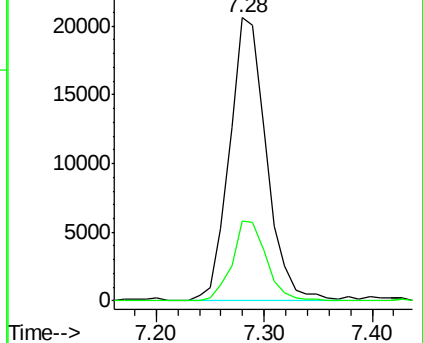
63 100

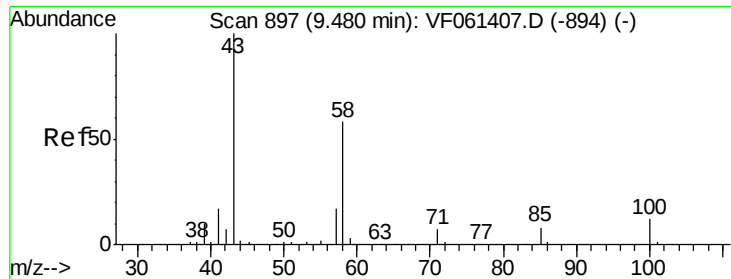
106 28.1 21.9 32.9



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





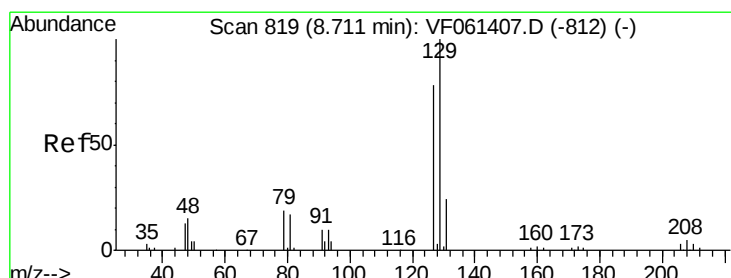
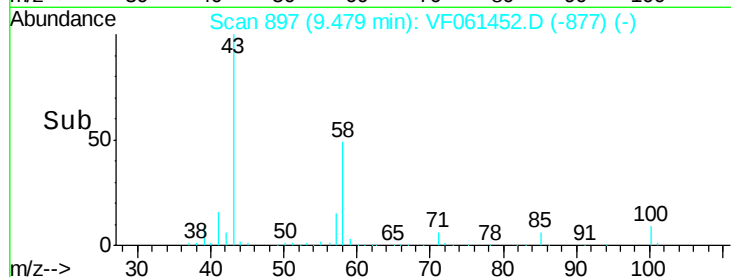
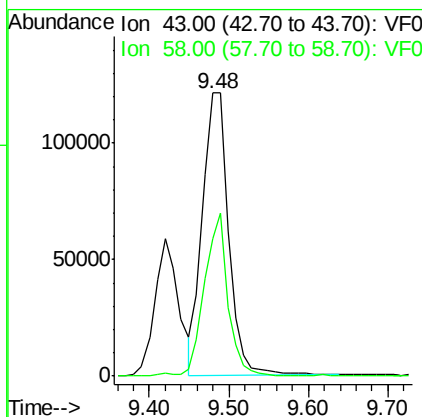
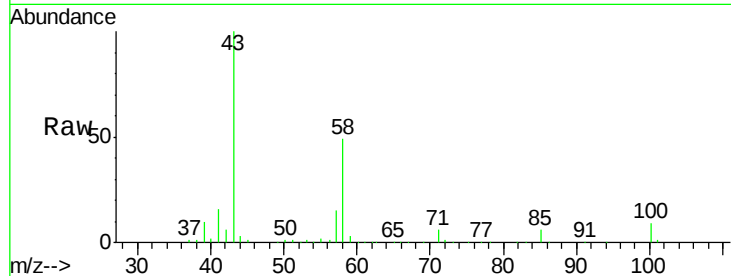
#59
2-Hexanone
Concen: 277.585 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampled :
VSTDCCC050

Tot Ion: 43 Resp: 278564
Ion Ratio Lower Upper
43 100
58 48.7 25.9 77.6

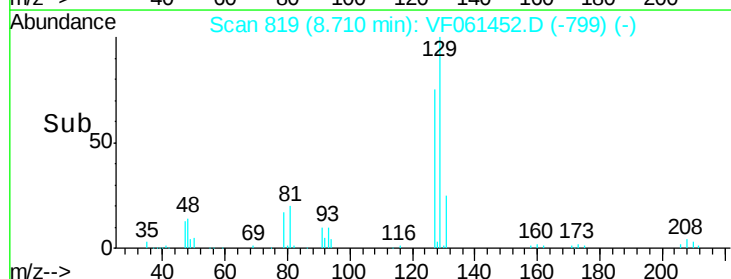
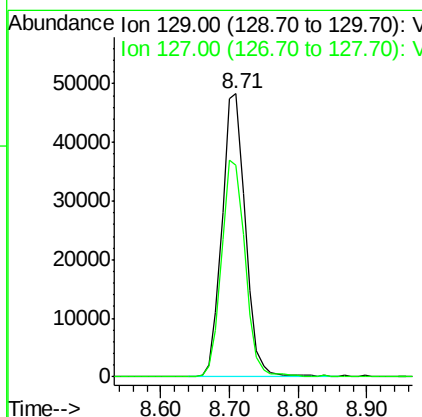
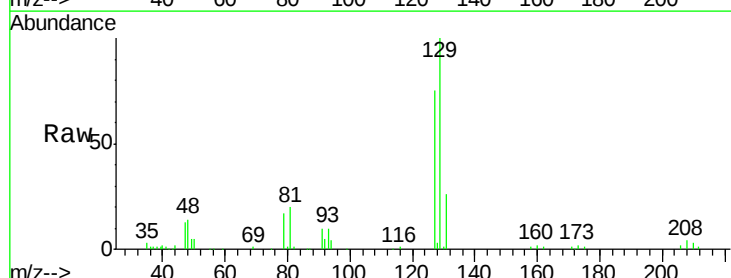
Manual Integrations
APPROVED

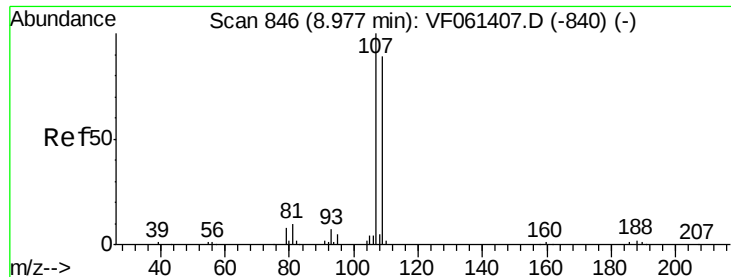
MMDadoda
1/21/2019 11:10:53 AM



#60
Dibromochloromethane
Concen: 48.107 ug/l
RT: 8.71 min Scan# 819
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion: 129 Resp: 114191
Ion Ratio Lower Upper
129 100
127 74.8 39.1 117.2





#61

1,2-Dibromoethane

Concen: 45.900 ug/l

RT: 8.98 min Scan# 846

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 85316

Ion Ratio Lower Upper

107 100

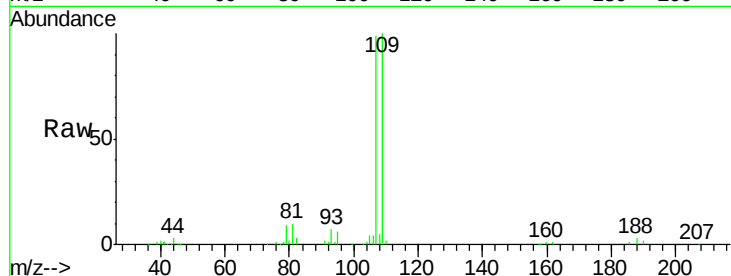
109 100.9 70.8 106.2

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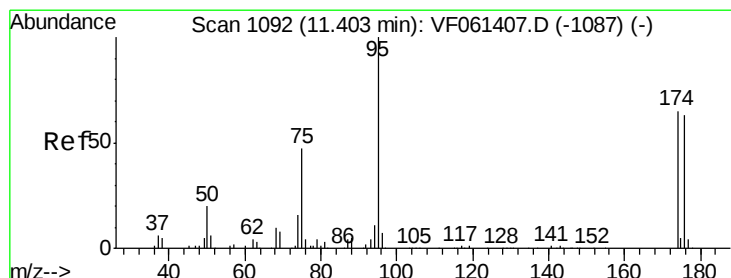
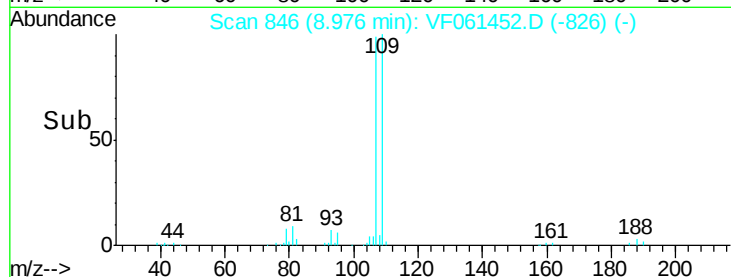
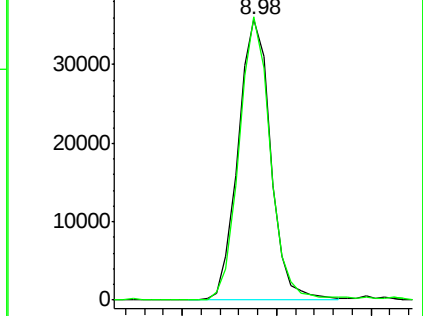
MMDadoda

1/21/2019 11:10:53 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 49.489 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

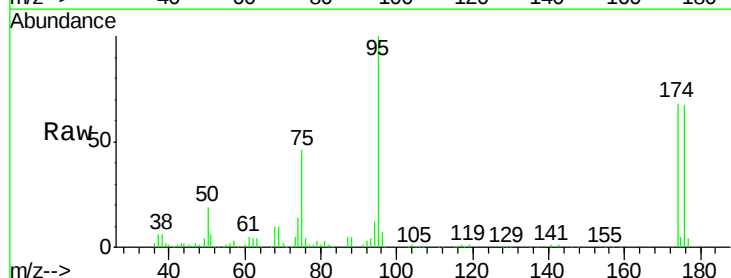
Tgt Ion: 95 Resp: 168231

Ion Ratio Lower Upper

95 100

174 67.5 0.0 130.4

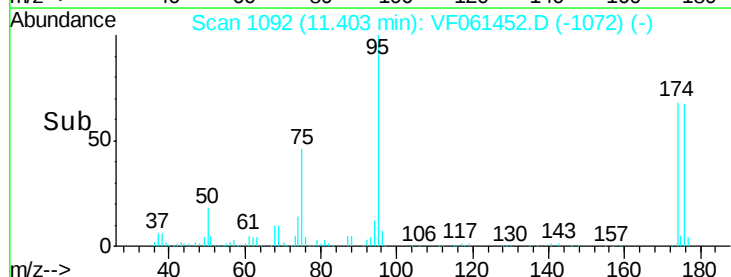
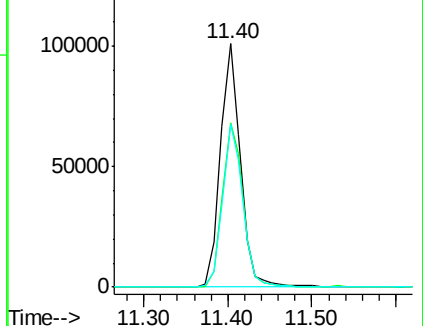
176 67.1 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





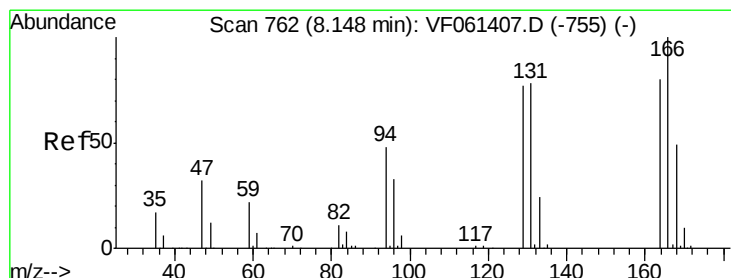
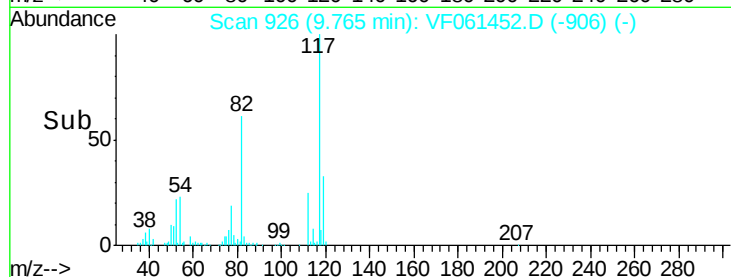
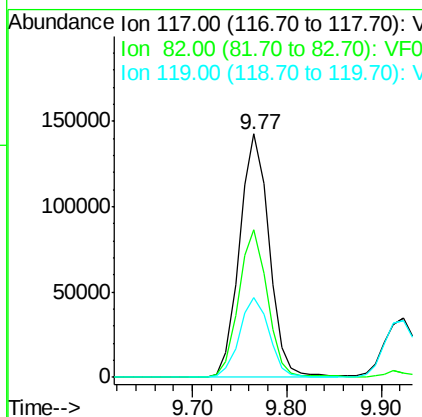
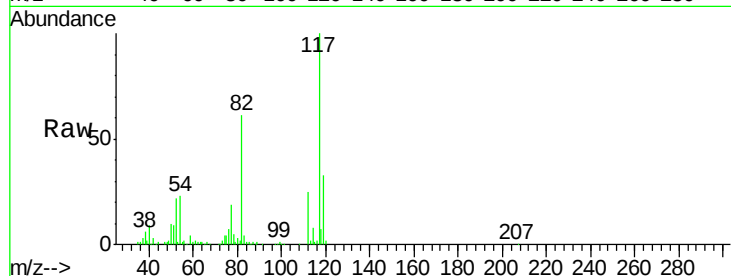
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:	117	Resp:	310097
Ion Ratio	Lower	Upper	
117	100		
82	60.6	46.4	69.6
119	32.5	27.2	40.8

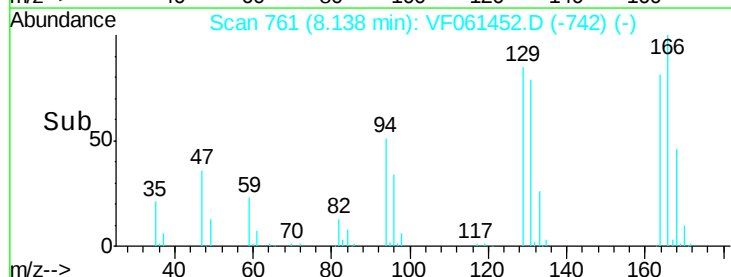
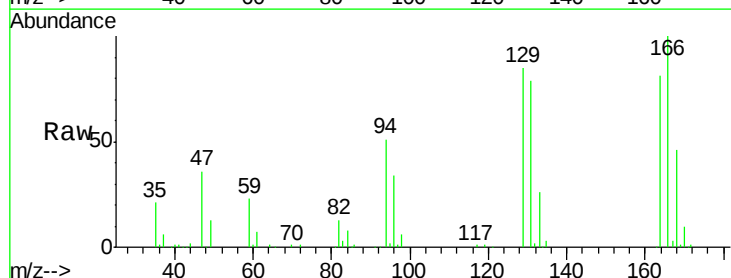
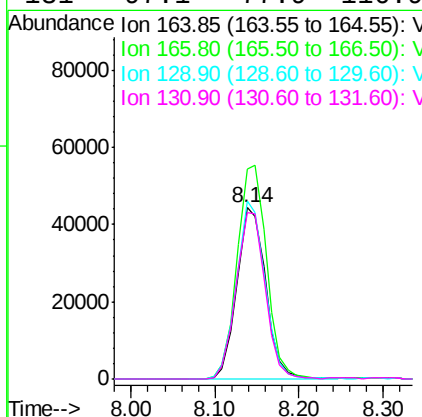
Manual Integrations
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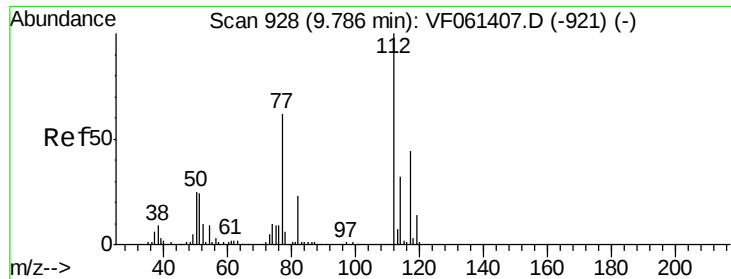
MMDadoda
1/21/2019 11:10:53 AM



#64
Tetrachloroethene
Concen: 45.624 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.01 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion:	164	Resp:	106394
Ion Ratio	Lower	Upper	
164	100		
166	122.9	99.6	149.4
129	104.0	76.4	114.6
131	97.1	77.9	116.9





#65

Chlorobenzene

Concen: 47.304 ug/l

RT: 9.79 min Scan# 928

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 298300

Ion Ratio Lower Upper

112 100

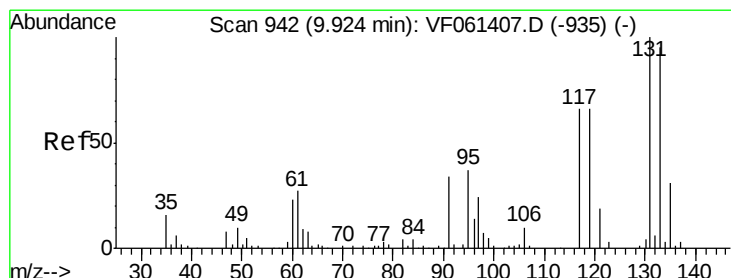
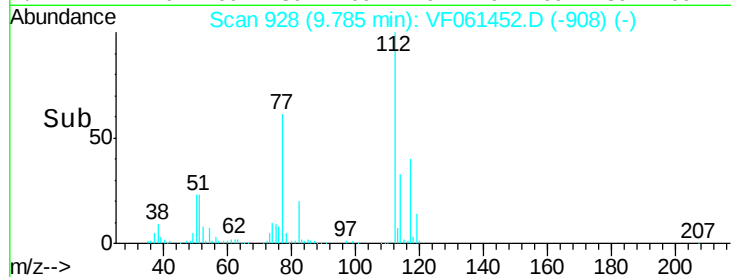
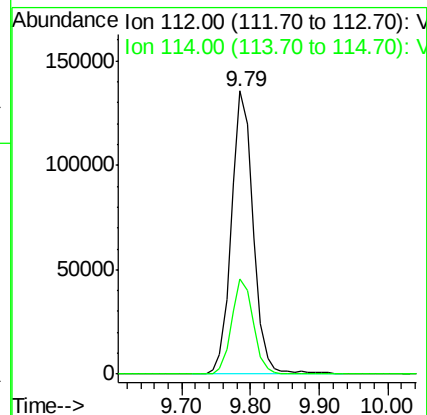
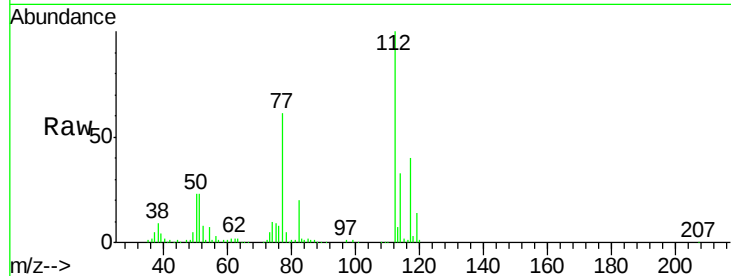
114 33.4 25.4 38.0

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#66

1,1,1,2-Tetrachloroethane

Concen: 46.788 ug/l

RT: 9.92 min Scan# 942

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

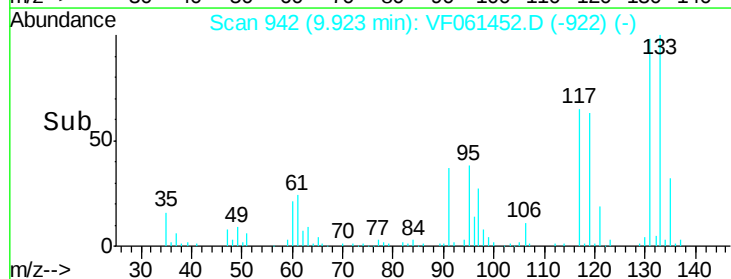
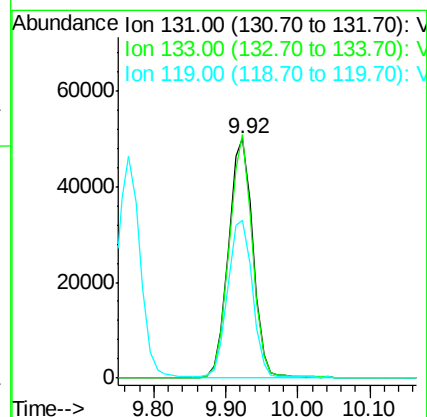
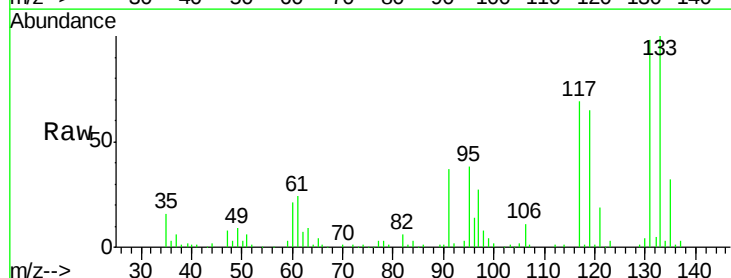
Tgt Ion:131 Resp: 117536

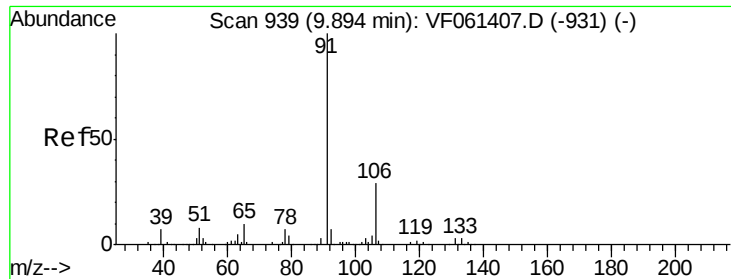
Ion Ratio Lower Upper

131 100

133 101.7 47.4 142.2

119 65.9 33.1 99.3





#67

Ethyl Benzene

Concen: 47.848 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 551279

Ion Ratio Lower Upper

91 100

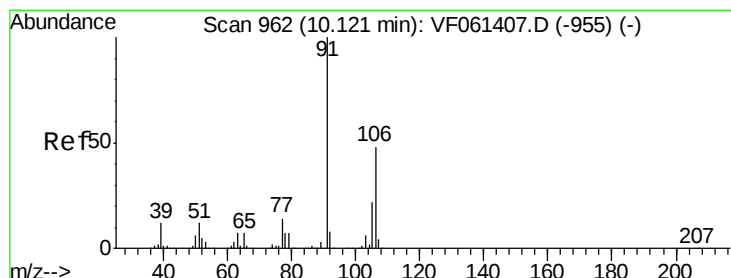
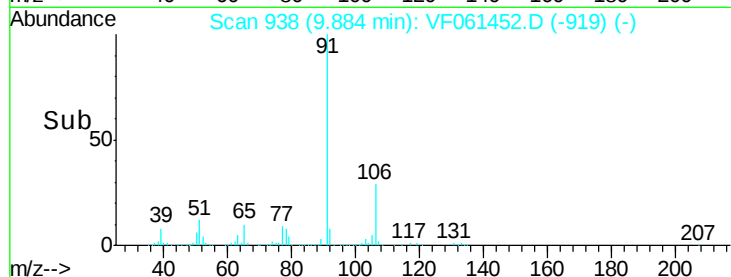
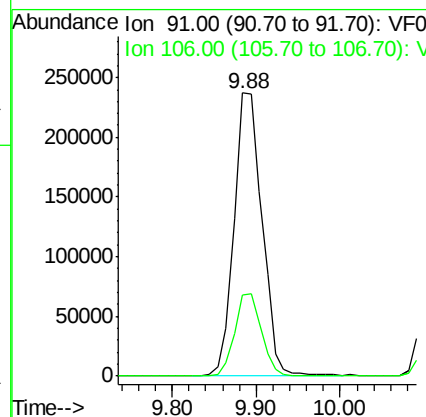
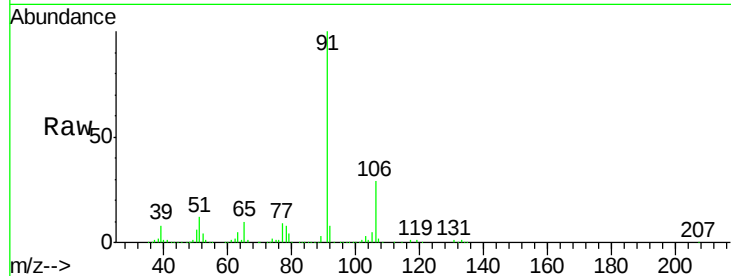
106 28.6 23.1 34.7

Manual Integrations

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#68

m/p-Xylenes

Concen: 90.618 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.00 min

Lab File: VF061452.D

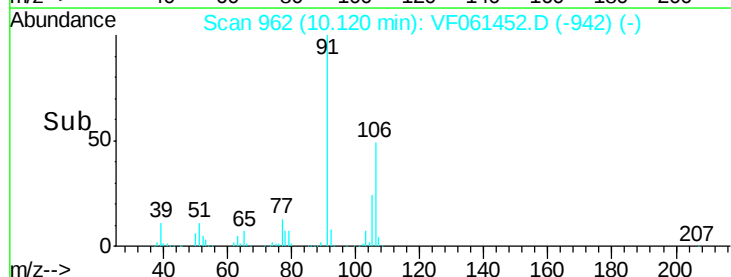
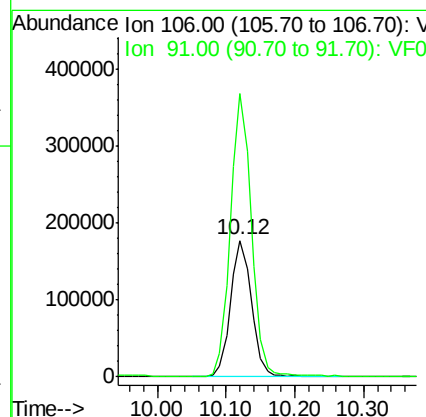
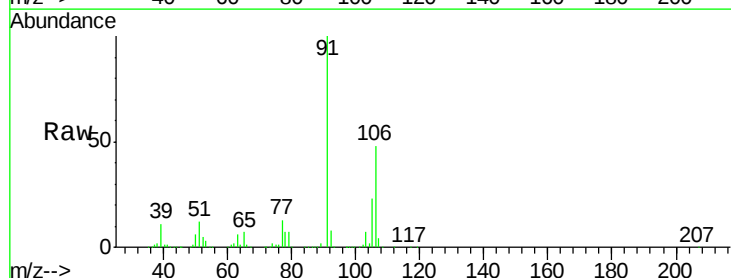
Acq: 18 Jan 2019 11:24

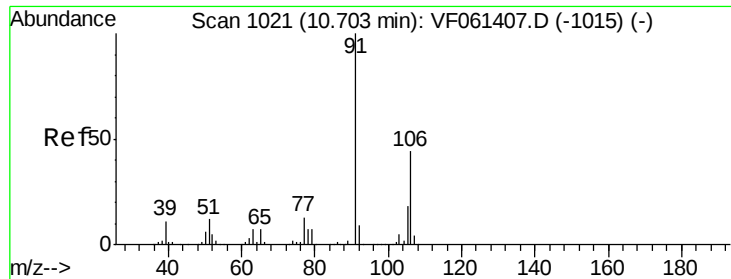
Tgt Ion: 106 Resp: 375511

Ion Ratio Lower Upper

106 100

91 207.2 166.2 249.4





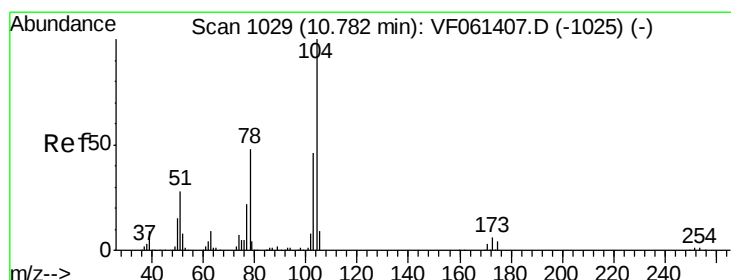
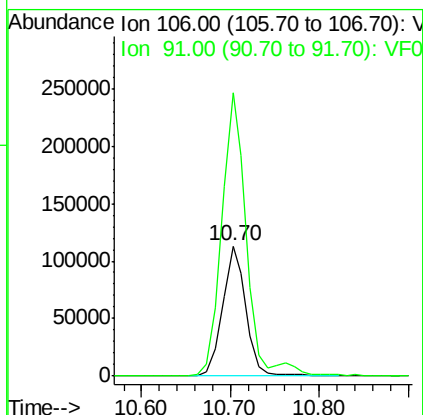
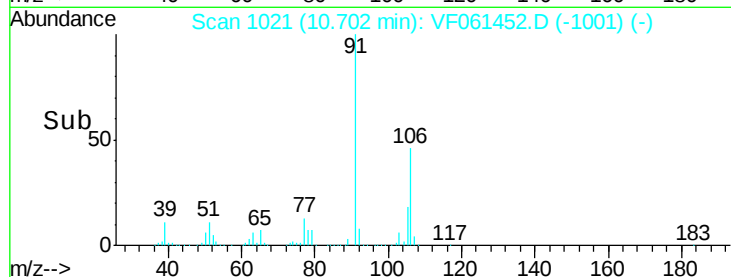
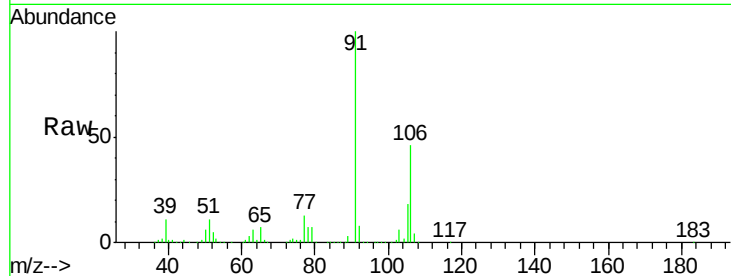
#69
o-Xylene
Concen: 46.619 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 209377
Ion Ratio Lower Upper
106 100
91 217.7 113.3 339.8

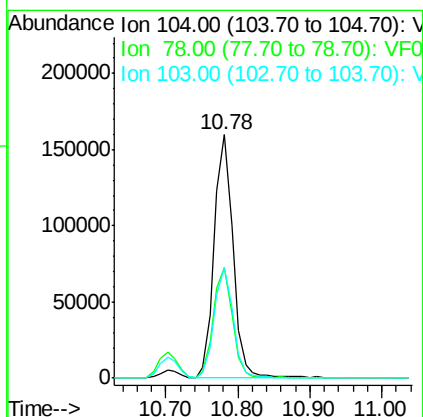
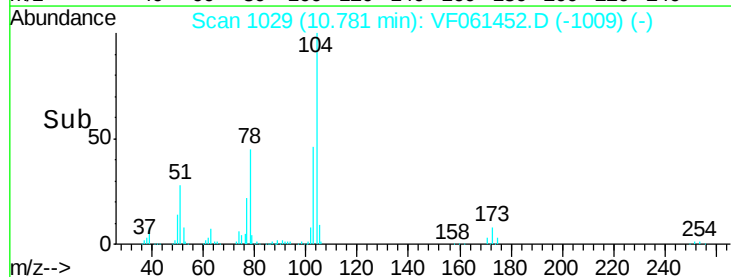
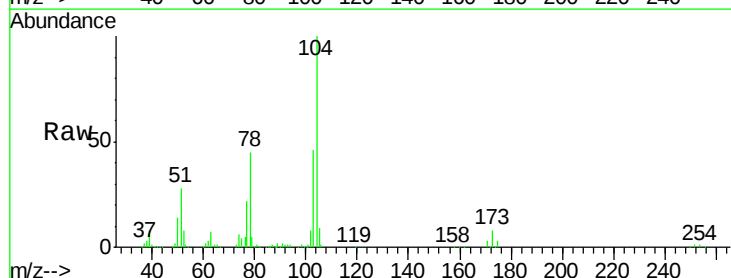
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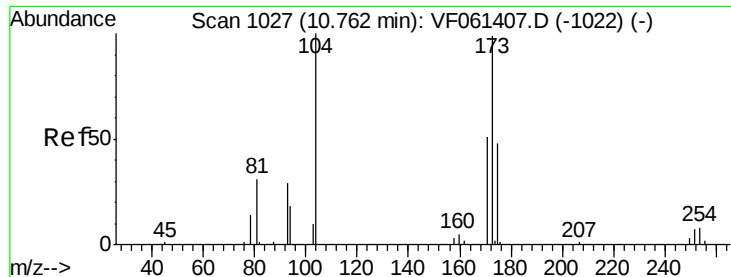
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#70
Styrene
Concen: 46.367 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion:104 Resp: 285051
Ion Ratio Lower Upper
104 100
78 45.3 38.8 58.2
103 45.6 37.0 55.6





#71

Bromoform

Concen: 51.725 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:173 Resp: 58382

Ion Ratio Lower Upper

173 100

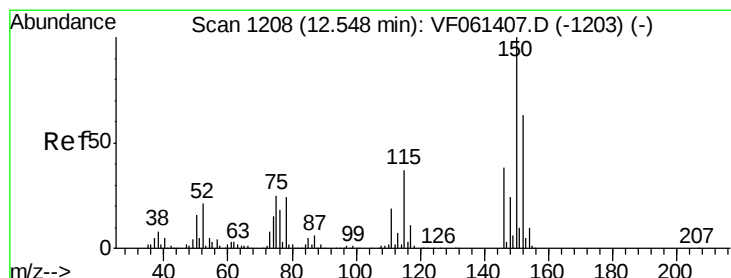
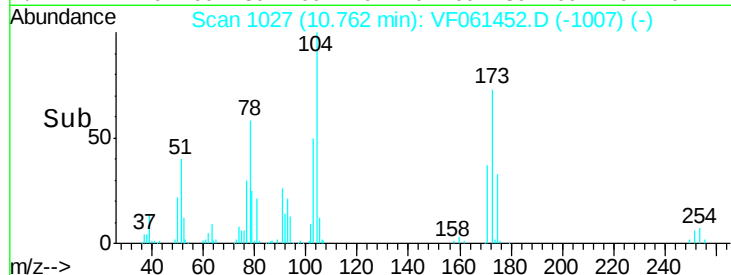
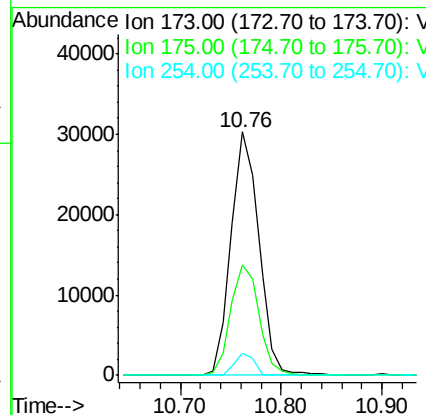
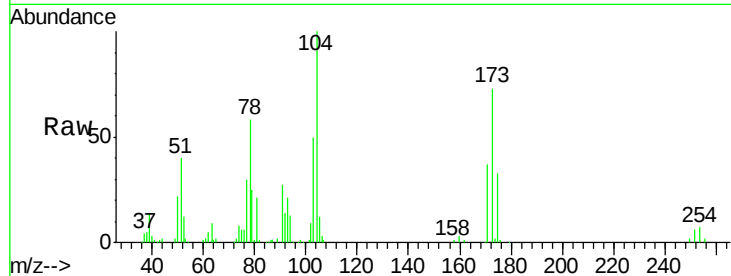
175 45.1 24.1 72.4

254 8.9 0.0 0.0#

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

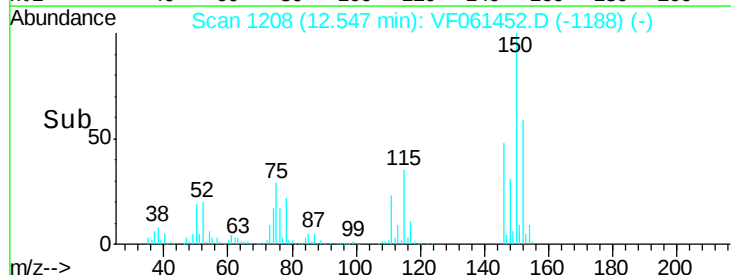
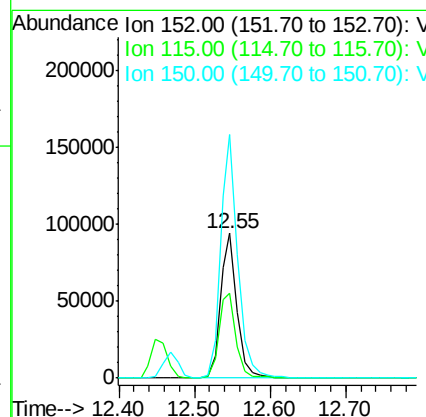
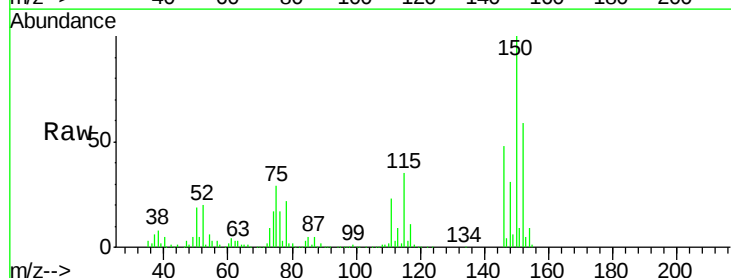
Tgt Ion:152 Resp: 143854

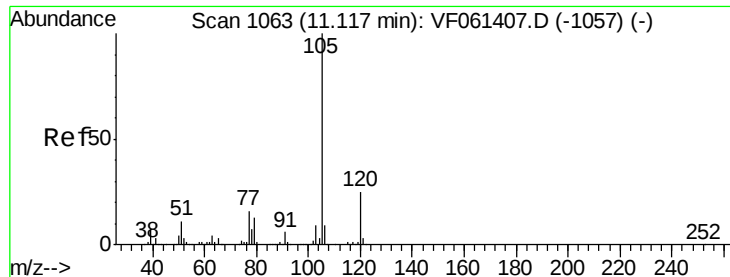
Ion Ratio Lower Upper

152 100

115 58.3 30.0 90.0

150 168.3 0.0 321.4





#73

Isopropylbenzene

Concen: 52.911 ug/l

RT: 11.12 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 105 Resp: 619060

Ion Ratio Lower Upper

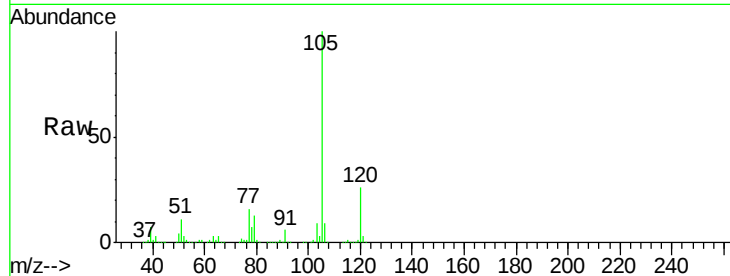
105 100

120 26.3 12.6 37.8

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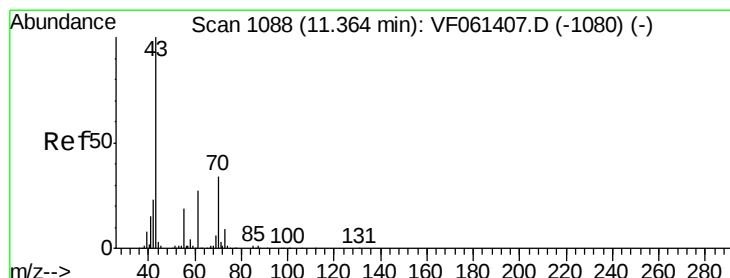
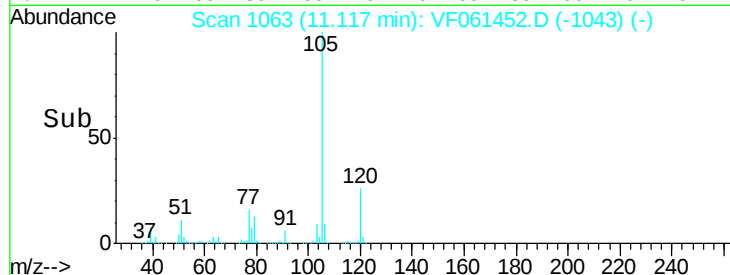
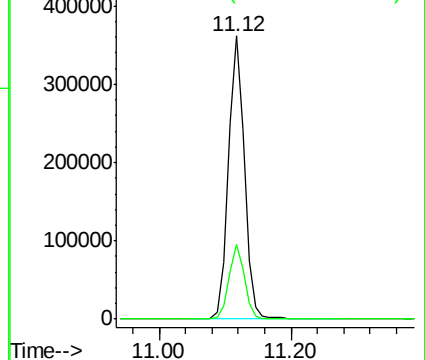
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 56.369 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion: 43 Resp: 155950

Ion Ratio Lower Upper

43 100

70 37.1 27.6 41.4

55 21.1 15.4 23.2

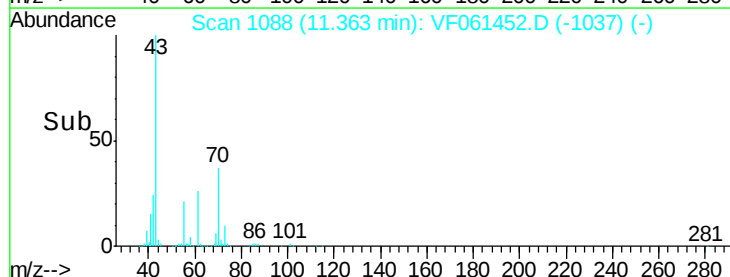
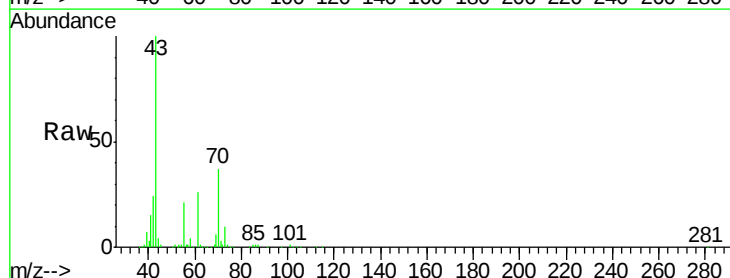
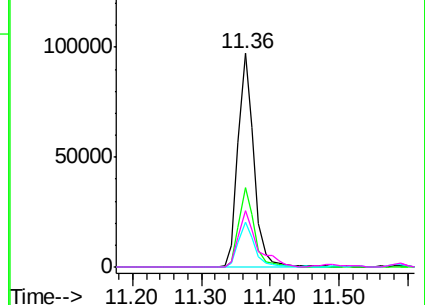
61 26.5 21.8 32.6

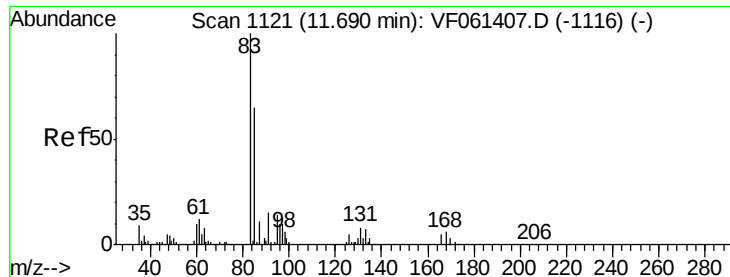
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 53.628 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

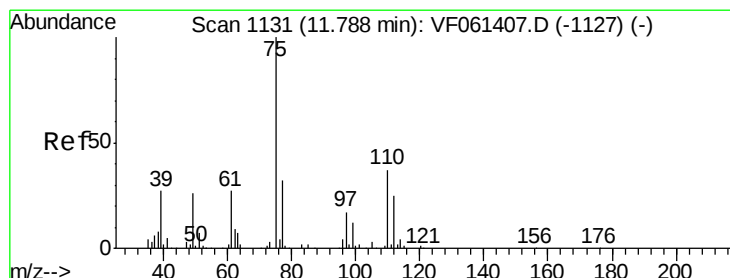
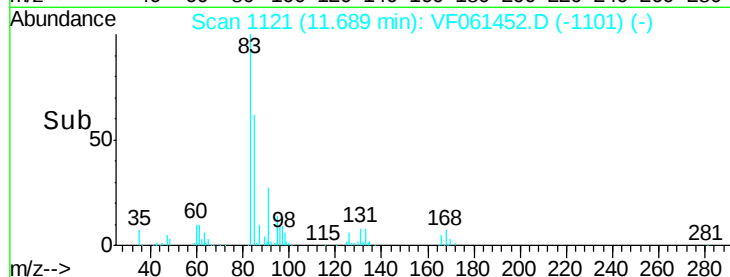
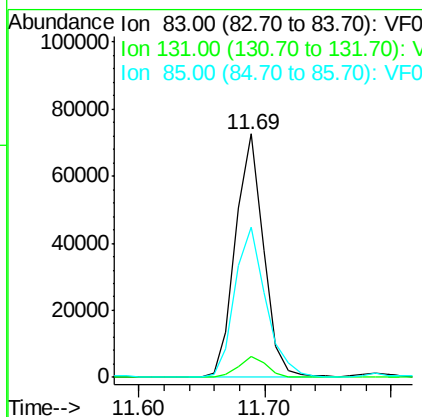
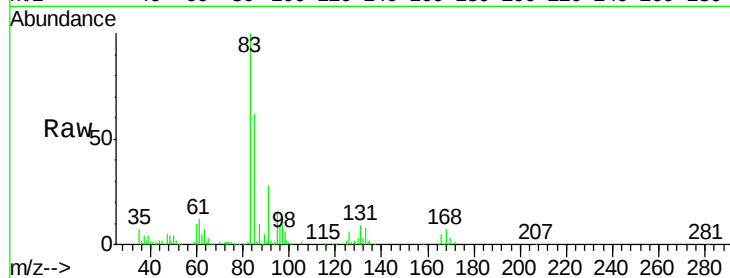
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	111777
Ion Ratio	Lower	Upper	
83	100		
131	8.7	4.0	12.2
85	61.9	32.7	98.1

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#76

1,2,3-Trichloropropane

Concen: 50.645 ug/l

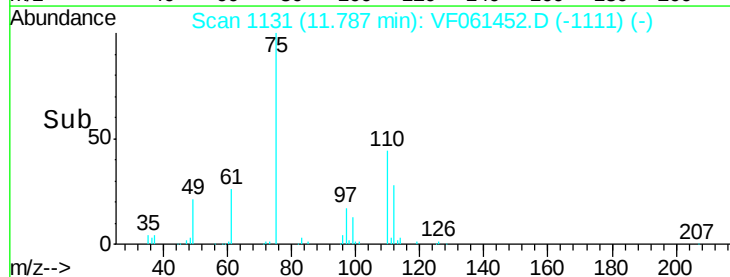
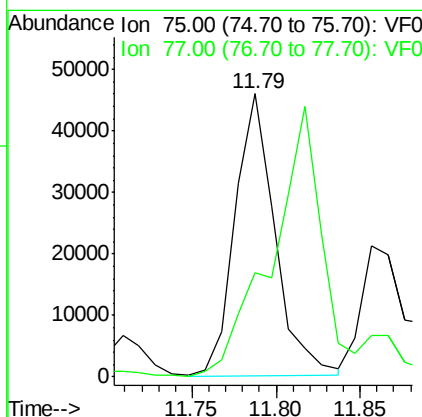
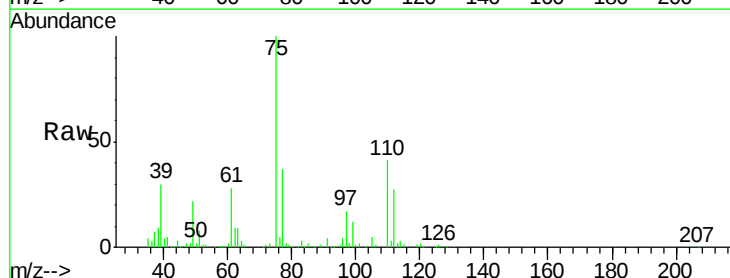
RT: 11.79 min Scan# 1131

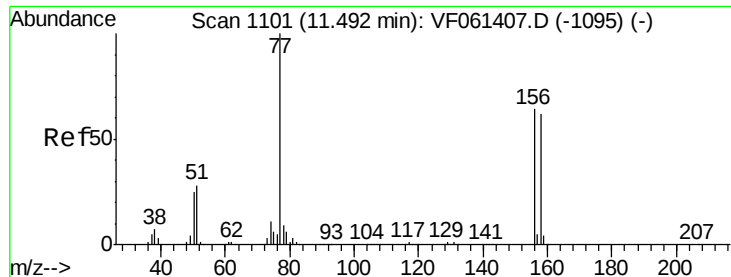
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	75	Resp:	75850
Ion Ratio	Lower	Upper	
75	100		
77	36.7	16.1	48.3





#77

Bromobenzene

Concen: 52.214 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

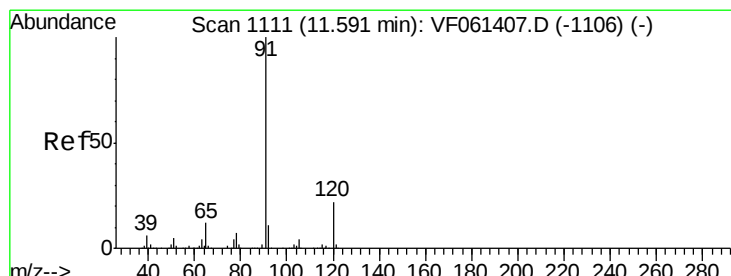
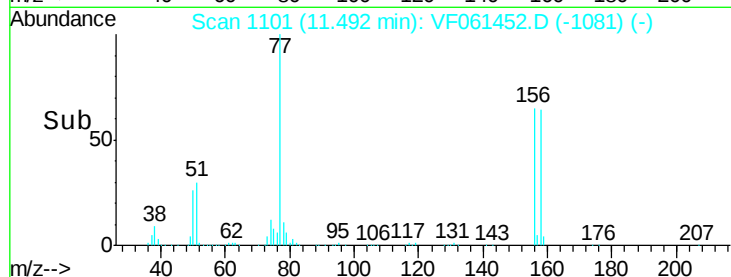
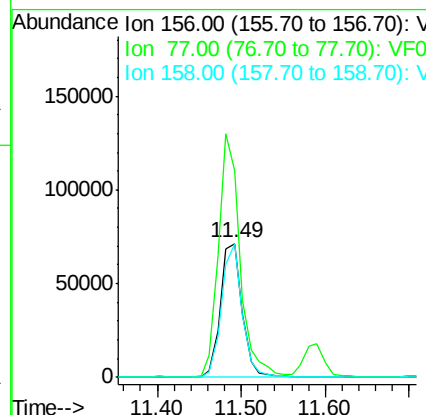
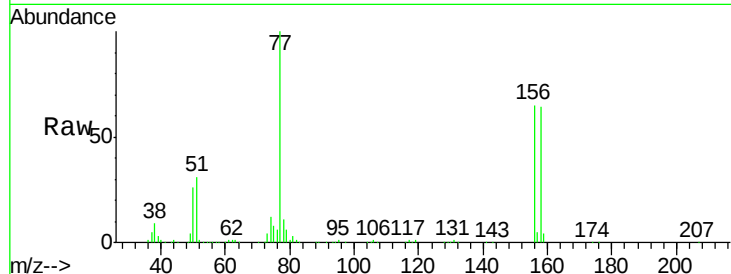
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	154.8	78.3	234.9
158	99.4	48.9	146.7

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#78

n-propylbenzene

Concen: 49.542 ug/l

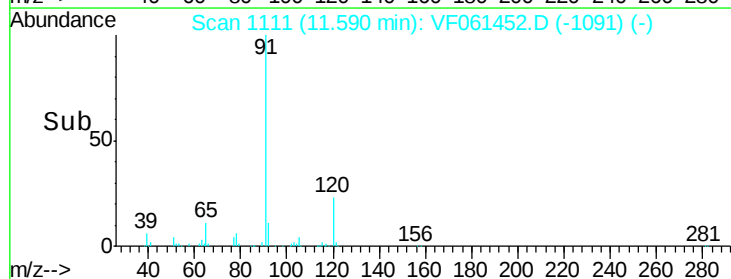
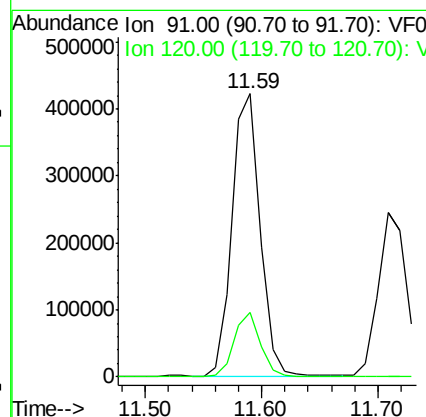
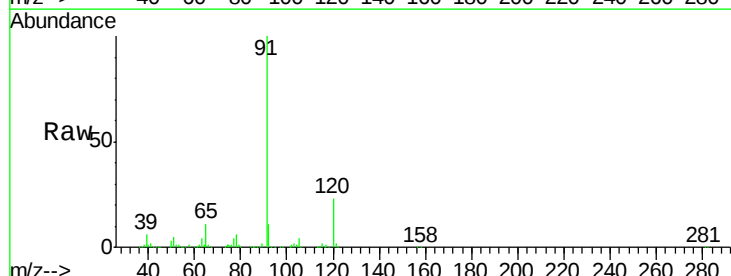
RT: 11.59 min Scan# 1111

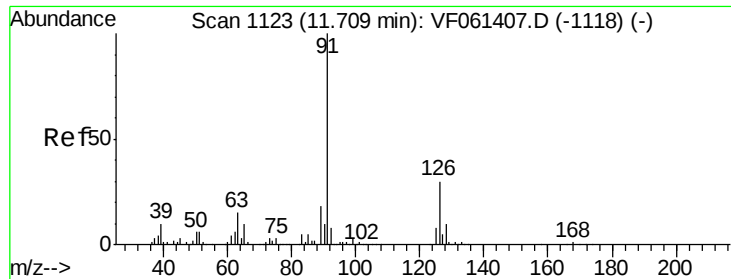
Delta R.T. 0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.6	10.9	32.6





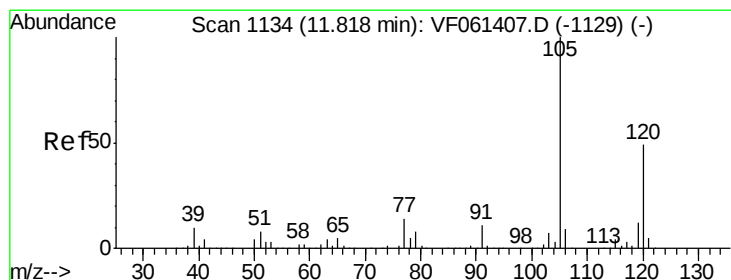
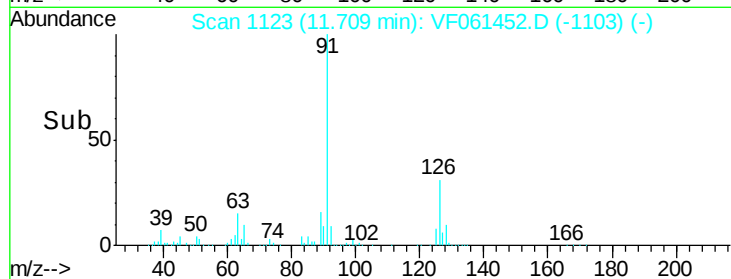
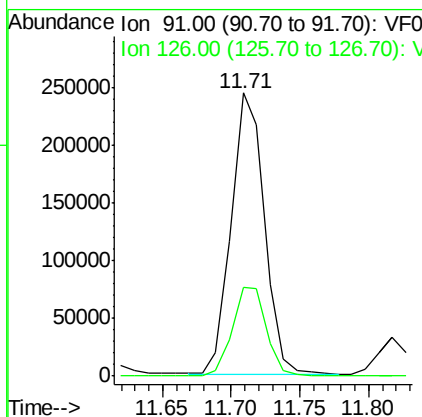
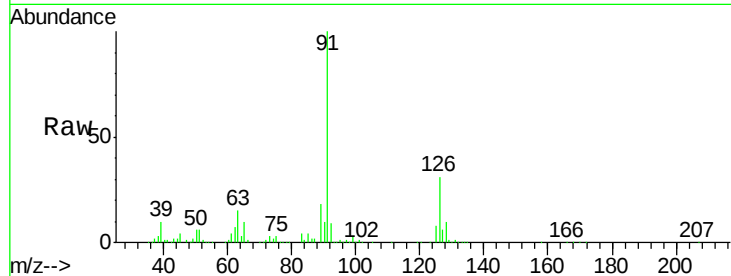
#79
 2-Chlorotoluene
 Concen: 50.392 ug/l
 RT: 11.71 min Scan# 1123
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 91 Resp: 409071
 Ion Ratio Lower Upper
 91 100
 126 31.3 15.0 45.1

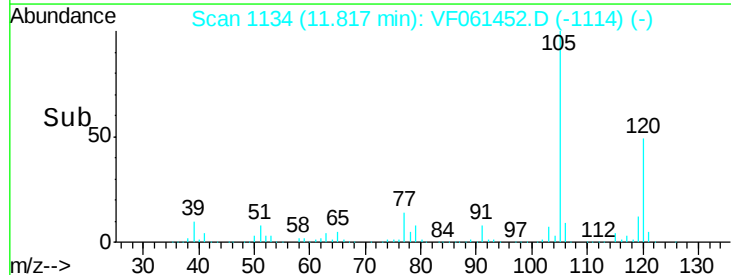
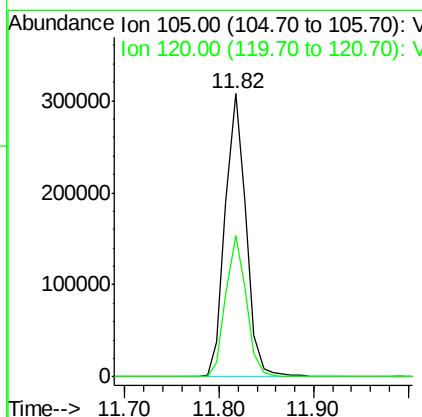
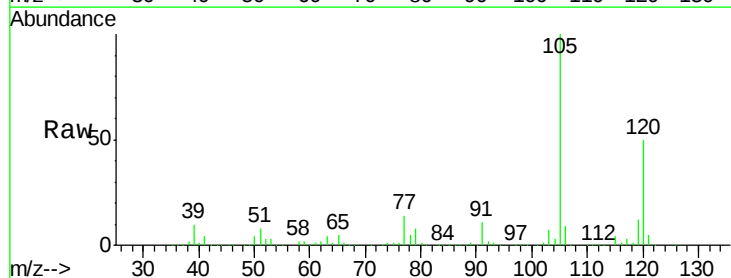
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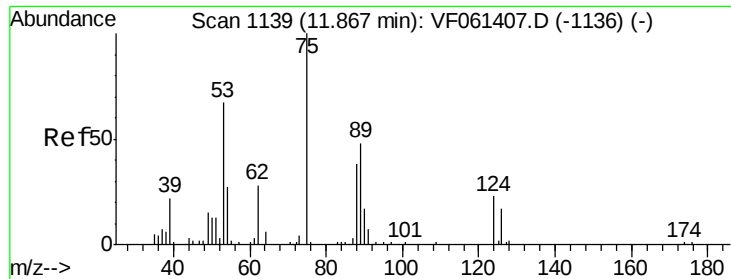
MMDadoda
 1/21/2019 11:10:53 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 49.923 ug/l
 RT: 11.82 min Scan# 1134
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion: 105 Resp: 471376
 Ion Ratio Lower Upper
 105 100
 120 50.0 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 51.601 ug/l m

RT: 11.86 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 33595

Ion Ratio Lower Upper

75 100

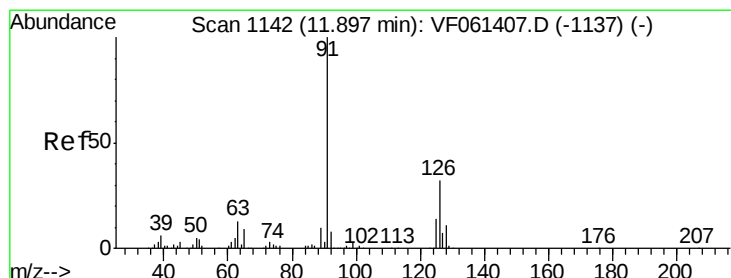
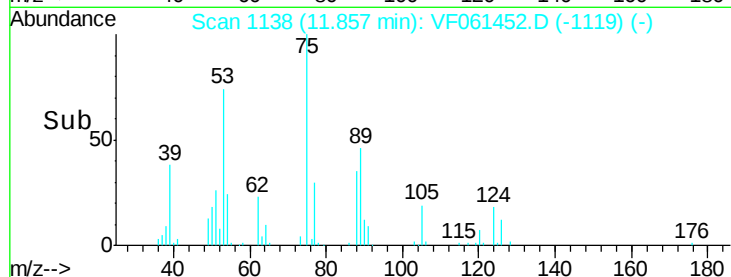
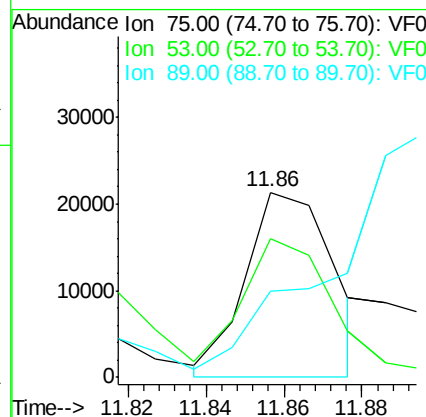
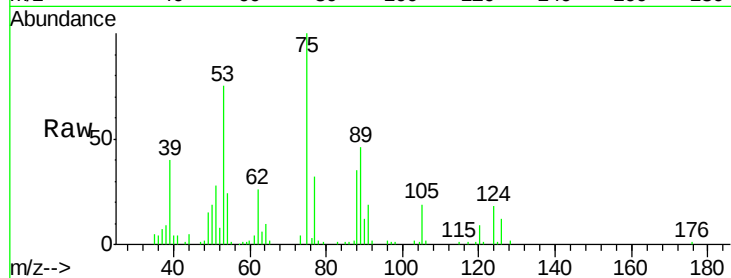
53 75.0 57.8 86.6

89 46.4 40.7 61.1

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#82

4-Chlorotoluene

Concen: 51.416 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF061452.D

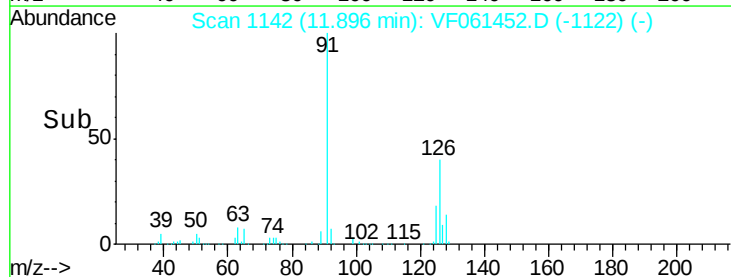
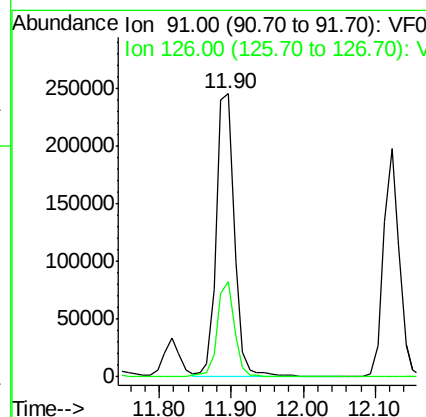
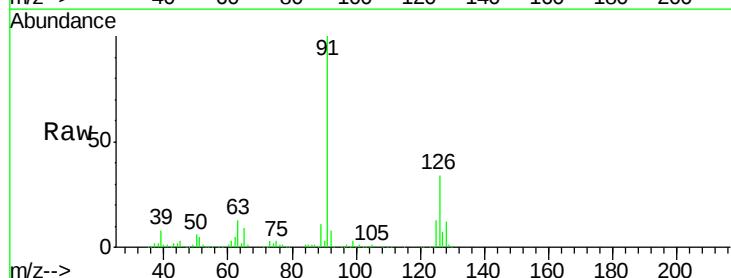
Acq: 18 Jan 2019 11:24

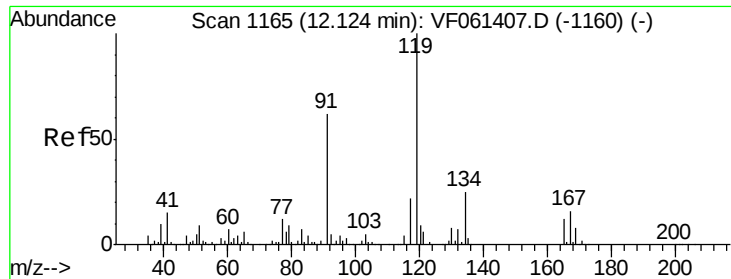
Tgt Ion: 91 Resp: 421183

Ion Ratio Lower Upper

91 100

126 33.7 16.0 47.9





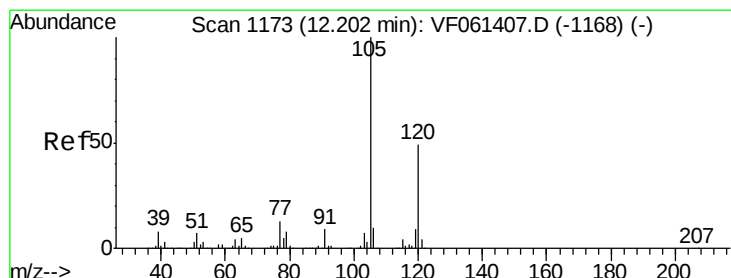
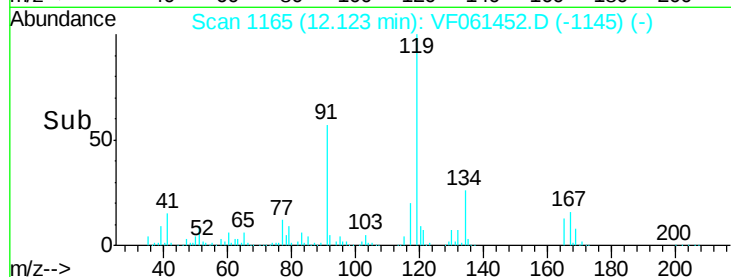
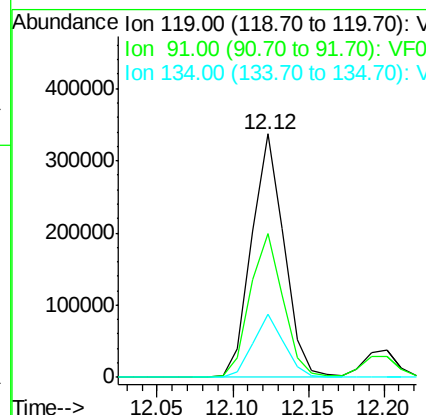
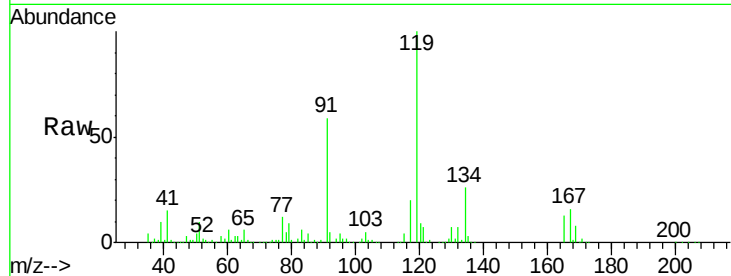
#83
 tert-Butylbenzene
 Concen: 51.973 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	507919		
91	58.8		31.3	93.8
134	25.7		12.4	37.0

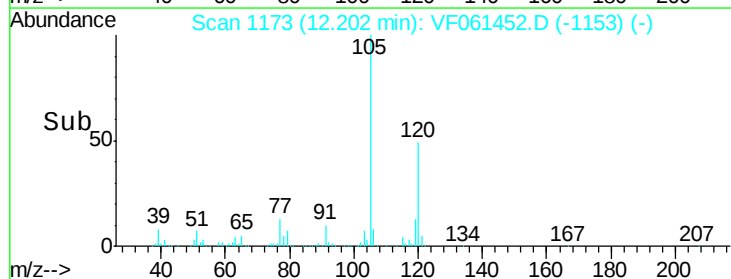
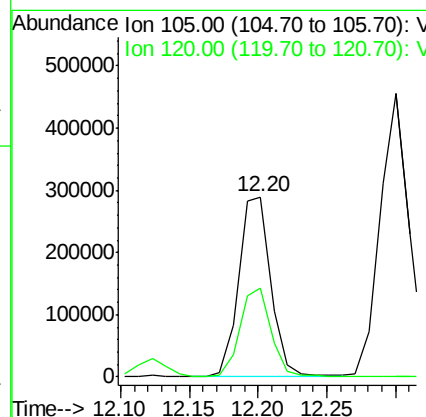
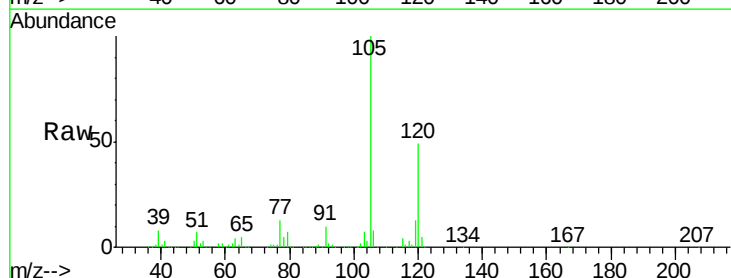
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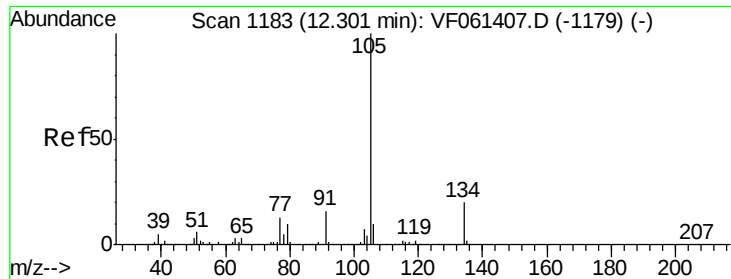
MMDadoda
 1/21/2019 11:10:53 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 48.621 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	472880		
120	49.2		24.9	74.6





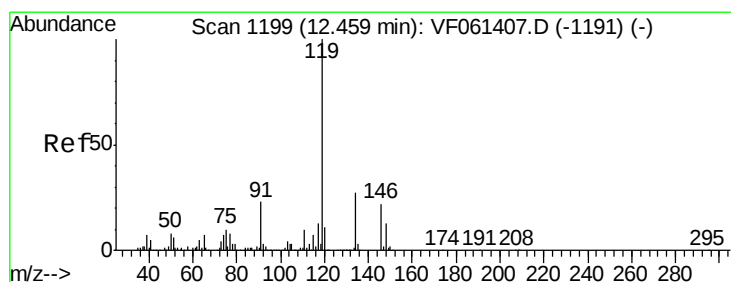
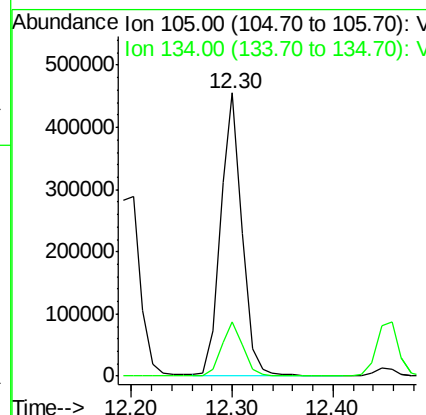
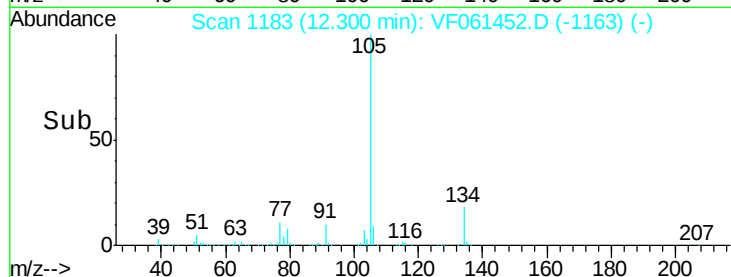
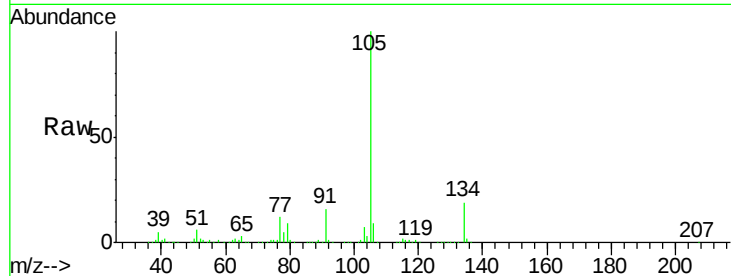
#85
 sec-Butylbenzene
 Concen: 50.618 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.2	10.0	30.0

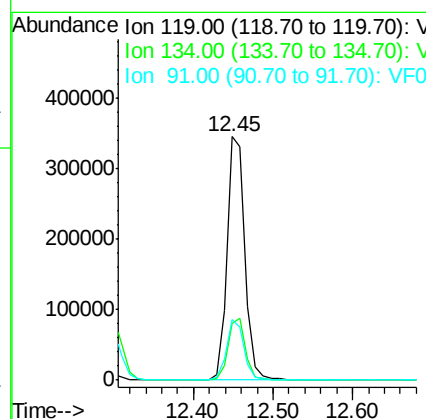
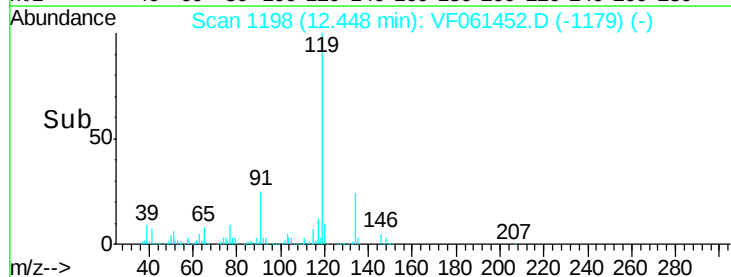
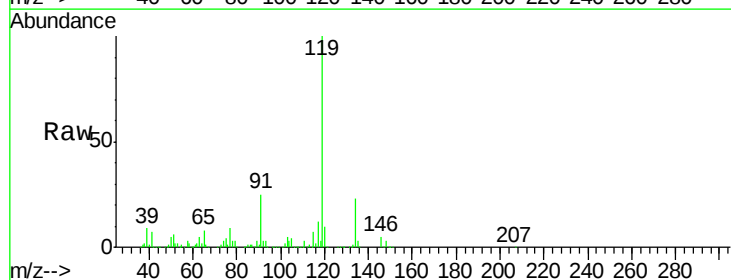
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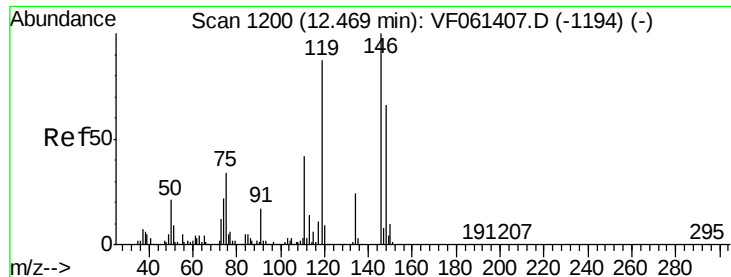
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#86
 p-Isopropyltoluene
 Concen: 50.101 ug/l
 RT: 12.45 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.5	13.4	40.2
91	25.1	11.4	34.2





#87

1,3-Dichlorobenzene

Concen: 48.265 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

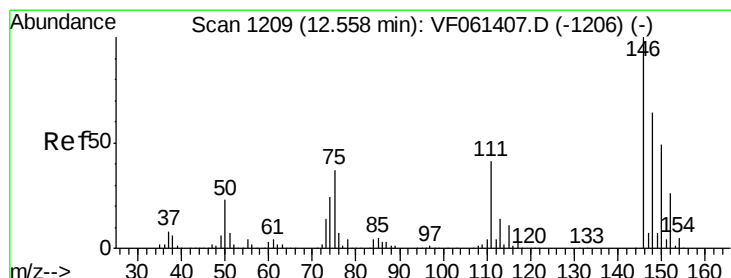
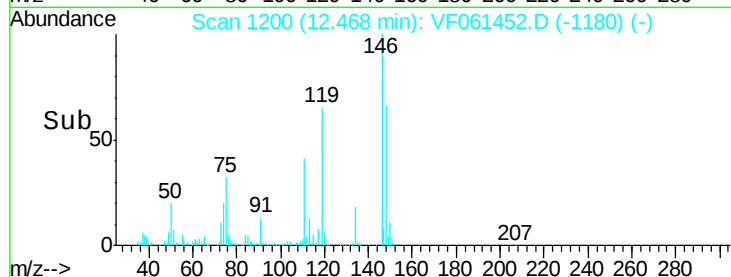
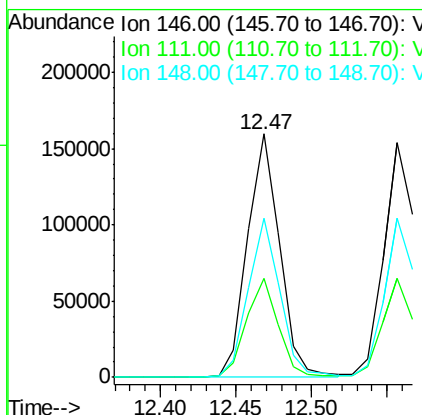
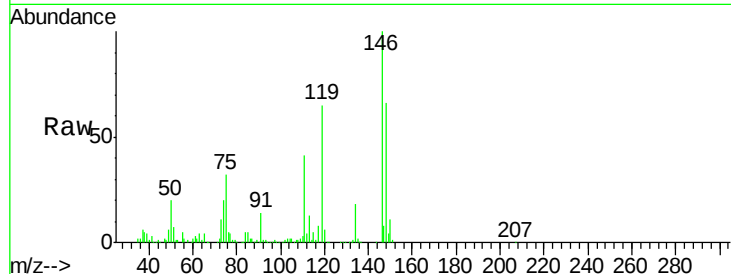
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	237972
Ion Ratio	Lower	Upper	
146	100		
111	40.8	21.1	63.4
148	65.5	32.9	98.6

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#88

1,4-Dichlorobenzene

Concen: 49.566 ug/l

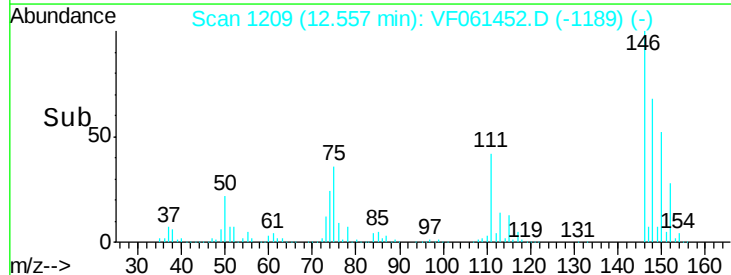
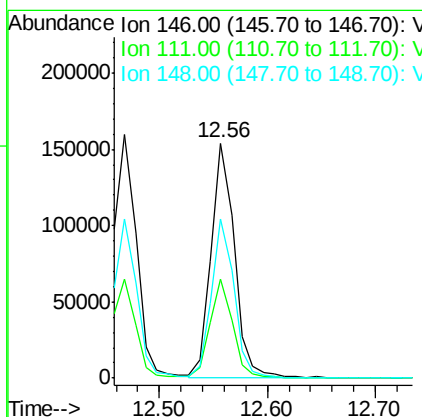
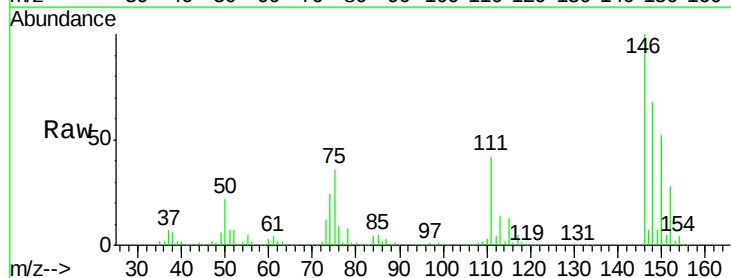
RT: 12.56 min Scan# 1209

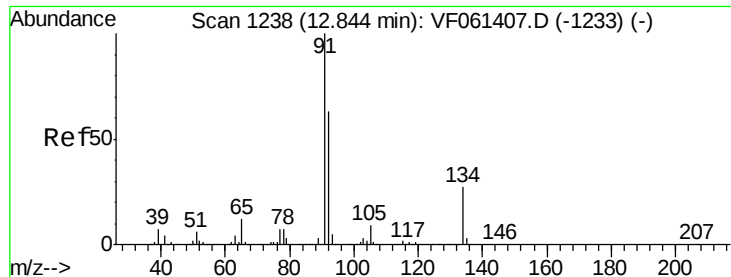
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	146	Resp:	231433
Ion Ratio	Lower	Upper	
146	100		
111	42.0	20.8	62.2
148	67.9	32.1	96.5





#89

n-Butylbenzene

Concen: 51.934 ug/l

RT: 12.83 min Scan# 1237

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

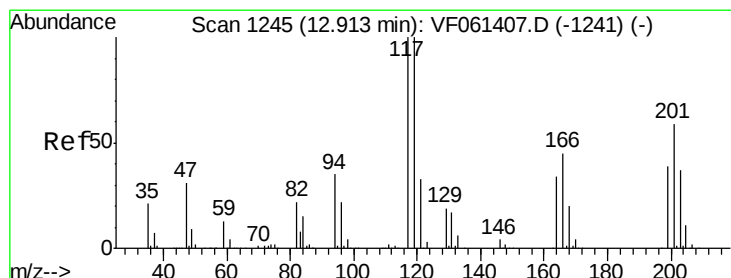
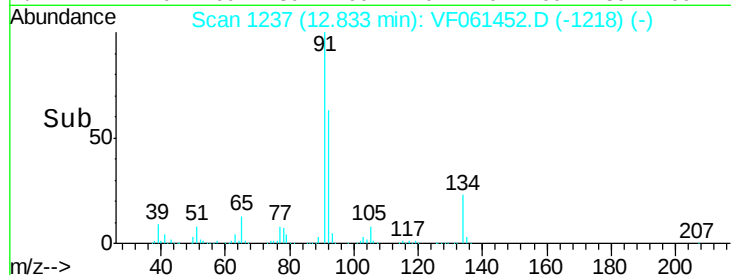
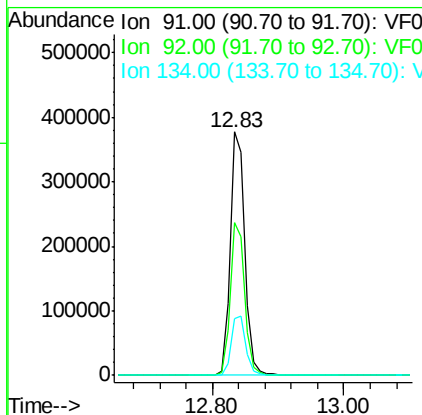
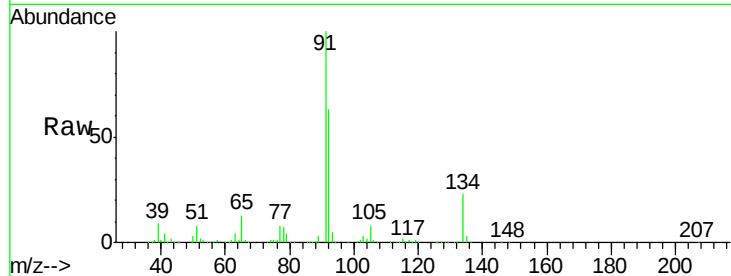
ClientSampleId :

VSTDCCC050

Tot Ion:	91	Resp:	583508
Ion	Ratio	Lower	Upper
91	100		
92	62.6	31.6	94.7
134	23.3	13.6	40.8

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#90

Hexachloroethane

Concen: 52.533 ug/l

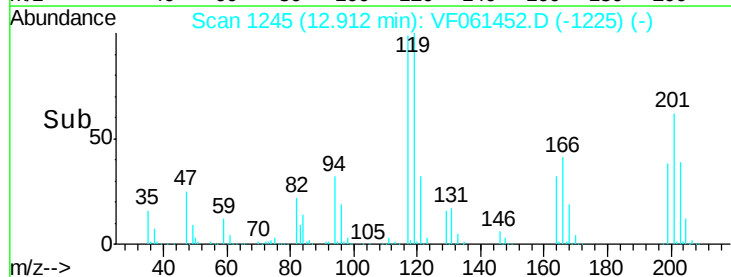
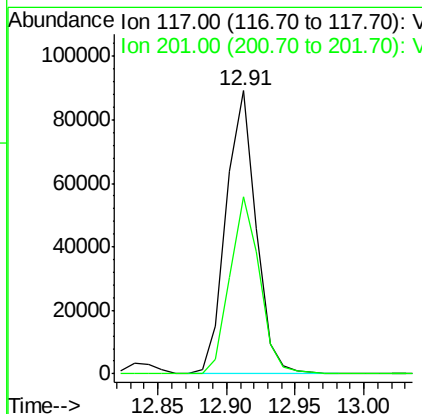
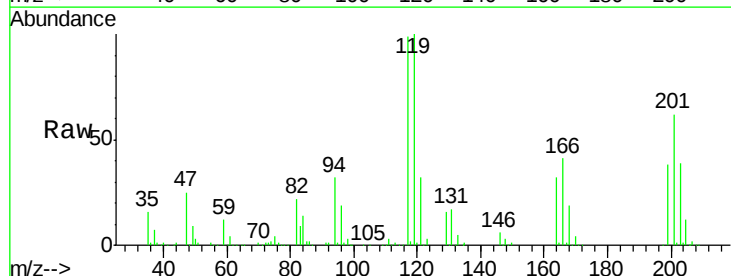
RT: 12.91 min Scan# 1245

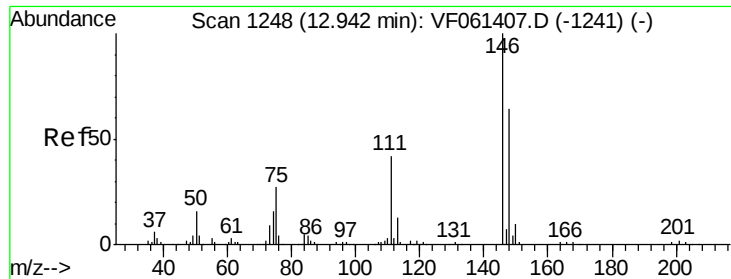
Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	117	Resp:	134910
Ion	Ratio	Lower	Upper
117	100		
201	62.4	29.3	87.8





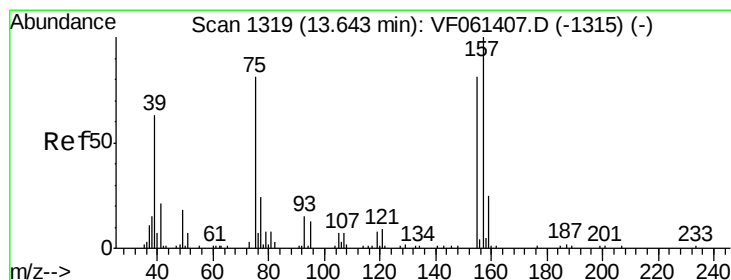
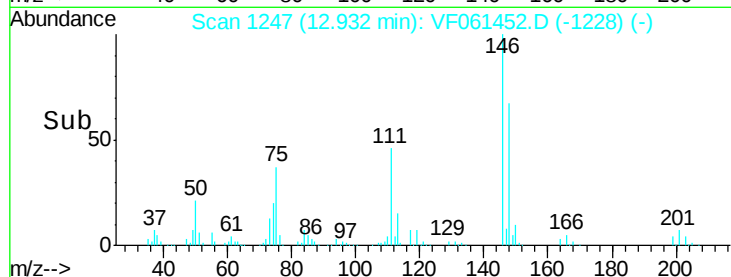
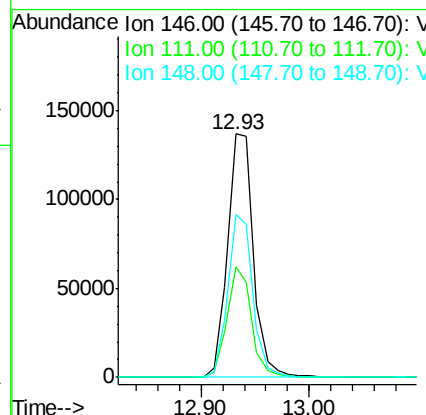
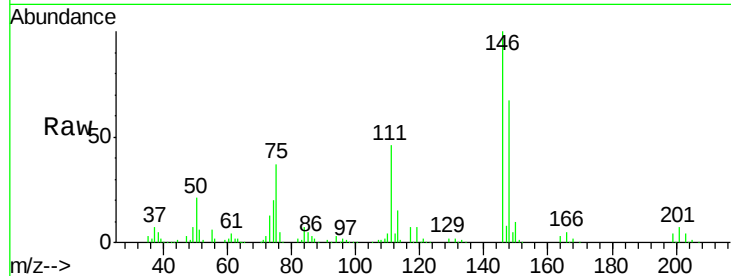
#91
 1,2-Dichlorobenzene
 Concen: 49.532 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	228952		
111	45.6	21.1	63.3	
148	67.2	31.9	95.7	

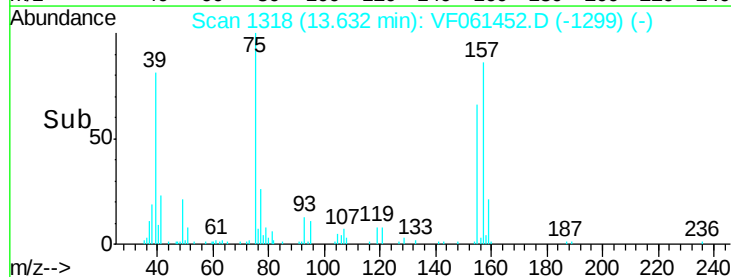
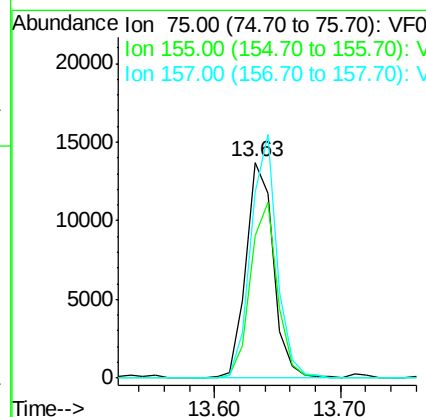
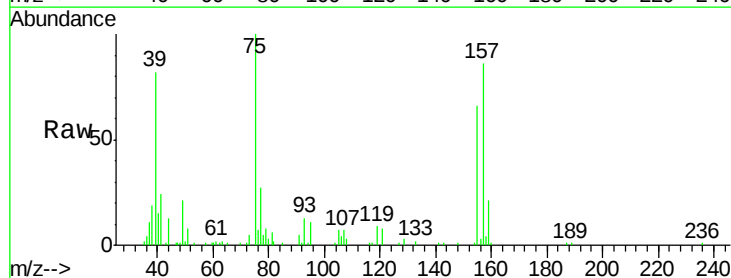
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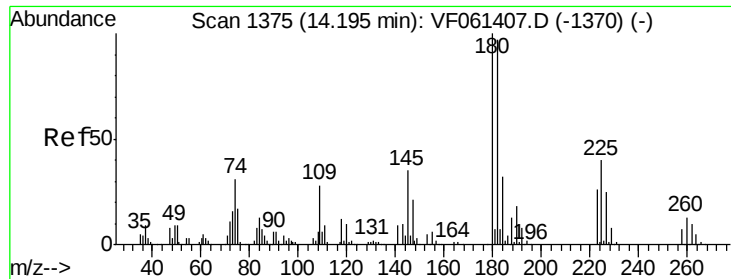
MMDadoda
 1/21/2019 11:10:53 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 56.174 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	20767		
155	66.1	49.7	149.1	
157	86.2	61.4	184.1	





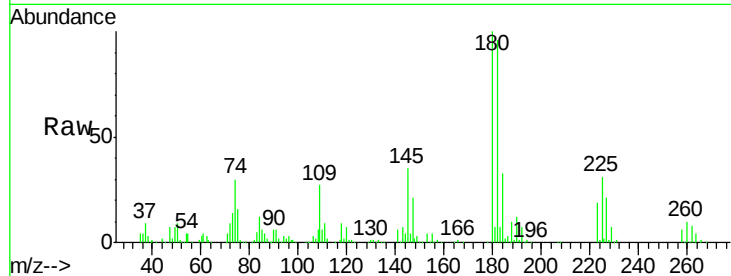
#93
 1,2,4-Trichlorobenzene
 Concen: 48.200 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

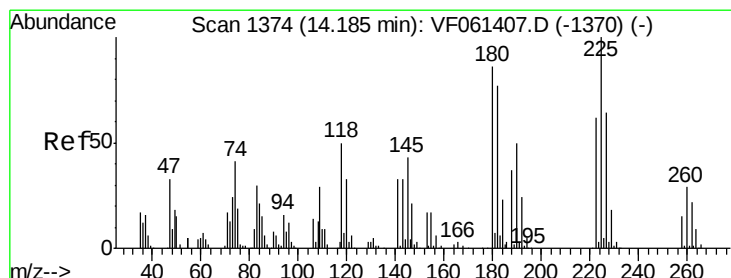
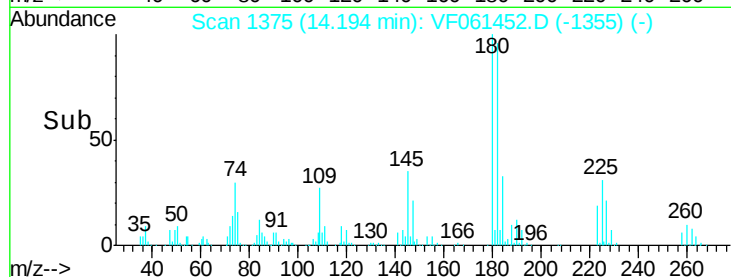
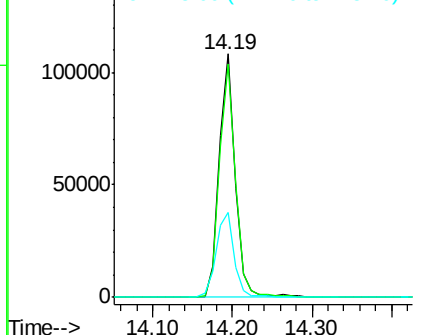
Tot Ion	Ratio	Resp	Lower	Upper
180	100	156074		
182	95.7	48.5	145.6	
145	34.7	17.5	52.6	

Manual Integrations
 APPROVED

MMDadoda
 1/21/2019 11:10:53 AM

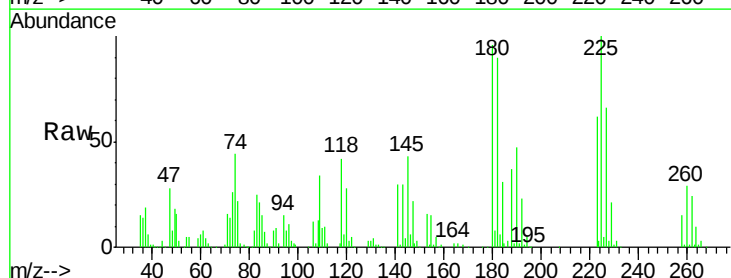


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

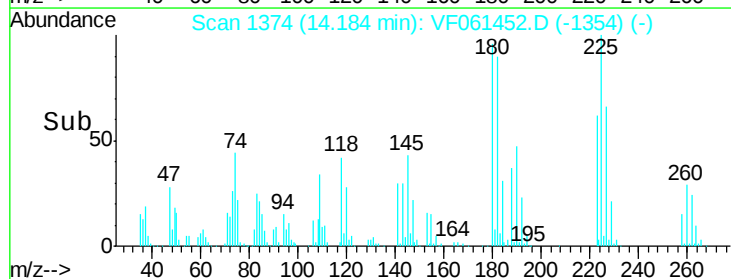
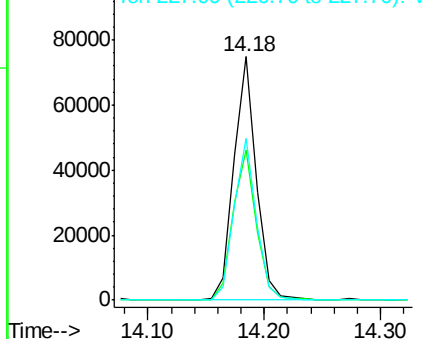


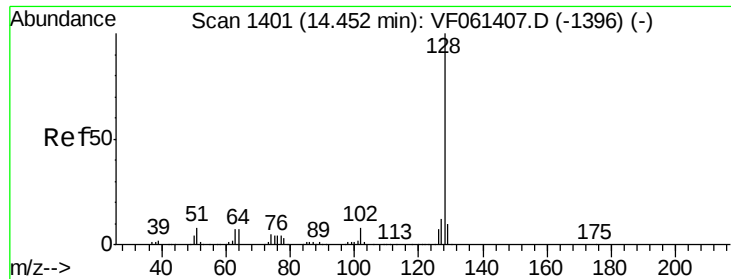
#94
 Hexachlorobutadiene
 Concen: 50.025 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	100513		
223	61.8	31.1	93.2	
227	66.3	32.2	96.6	



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





#95

Naphthalene

Concen: 50.260 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

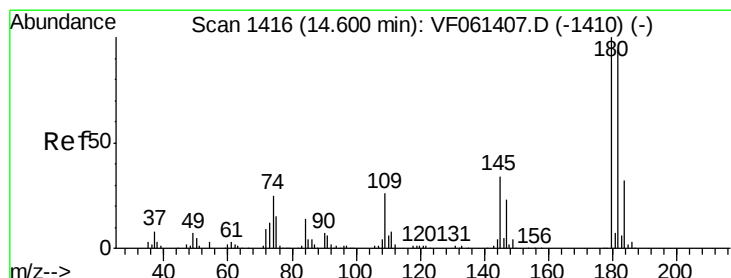
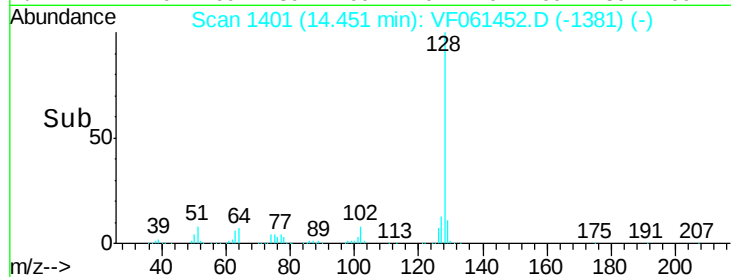
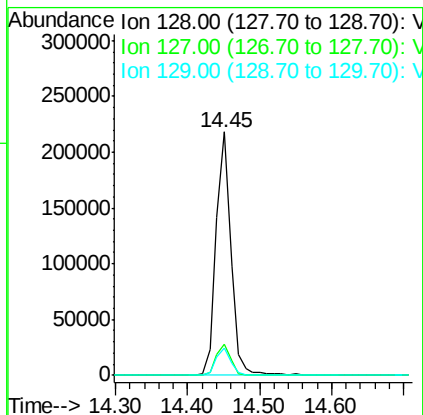
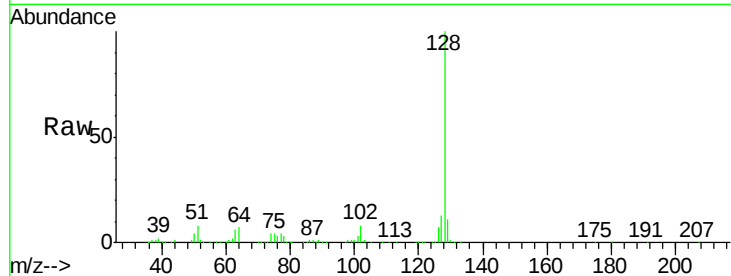
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	309197
Ion Ratio	Lower	Upper	
128	100		
127	12.5	9.5	14.3
129	11.3	8.4	12.6

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#96

1,2,3-Trichlorobenzene

Concen: 48.384 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion:	180	Resp:	145028
Ion Ratio	Lower	Upper	
180	100		
182	93.2	47.0	141.2
145	33.1	17.1	51.2

