

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061841.D
 Acq On : 5 Mar 2019 2:33
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:48:42 AM

Quant Time: Mar 05 05:55:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	288045	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.59	114	430663	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	367174	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.55	152	201068	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	115166	54.52	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	109.04%	
35) Dibromofluoromethane	4.11	113	158289	49.49	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	98.98%	
50) Toluene-d8	7.55	98	458032	49.82	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	99.64%	
62) 4-Bromofluorobenzene	11.41	95	181114	48.69	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	97.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	163767	49.508	ug/l	94
3) Chloromethane	1.10	50	159891	46.069	ug/l	96
4) Vinyl Chloride	1.14	62	155498	48.195	ug/l	93
5) Bromomethane	1.32	94	117295	52.822	ug/l	99
6) Chloroethane	1.38	64	80672	50.736	ug/l	96
7) Trichlorofluoromethane	1.49	101	195510m	50.240	ug/l	
8) Diethyl Ether	1.62	74	43809	44.671	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	1.83	101	134662	47.967	ug/l	90
10) Methyl Iodide	1.90	142	266671m	49.727	ug/l	
11) Tert butyl alcohol	2.57	59	27783	227.273	ug/l #	92
12) 1,1-Dichloroethene	1.79	96	123282	49.947	ug/l	93
13) Acrolein	2.00	56	34686	225.761	ug/l	90
14) Allyl chloride	2.09	41	142133	46.927	ug/l	97
15) Acrylonitrile	2.94	53	90161	207.932	ug/l #	91
16) Acetone	2.23	43	80111	176.767	ug/l	94
17) Carbon Disulfide	1.83	76	378556	48.792	ug/l	99
18) Methyl Acetate	2.34	43	49331m	48.319	ug/l	
19) Methyl tert-butyl Ether	2.42	73	210707	49.950	ug/l	100
20) Methylene Chloride	2.18	84	123809m	45.224	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	129669	48.326	ug/l	97
22) Diisopropyl ether	2.80	45	376906	51.841	ug/l	97
23) Vinyl Acetate	3.18	43	831186	234.064	ug/l	97
24) 1,1-Dichloroethane	2.87	63	211447	48.058	ug/l	99
25) 2-Butanone	4.33	43	197469	199.478	ug/l	99
26) 2,2-Dichloropropane	3.60	77	88333	47.397	ug/l	93
27) cis-1,2-Dichloroethene	3.47	96	169933	48.251	ug/l	98
28) Bromochloromethane	3.71	49	91958	43.559	ug/l	98
29) Tetrahydrofuran	4.07	42	91262	202.835	ug/l	98
30) Chloroform	3.85	83	242505	48.466	ug/l	100
31) Cyclohexane	3.68	56	212740m	44.665	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	158969	48.500	ug/l	99
36) 1,1-Dichloropropene	4.27	75	202251	47.407	ug/l	95
37) Ethyl Acetate	4.11	43	83427	42.102	ug/l	90
38) Carbon Tetrachloride	3.98	117	154807	52.550	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	243297	48.220	ug/l	100
40) Benzene	4.62	78	549984	49.286	ug/l	97
41) Methacrylonitrile	4.74	41	45647	45.045	ug/l	96
42) 1,2-Dichloroethane	4.94	62	139368	52.211	ug/l	93
43) Isopropyl Acetate	6.95	43	101317	43.195	ug/l #	93
44) Trichloroethene	5.50	130	167142	46.318	ug/l	96
45) 1,2-Dichloropropane	6.23	63	124778	46.260	ug/l	96
46) Dibromomethane	6.08	93	79471	47.852	ug/l	93
47) Bromodichloromethane	6.38	83	184061	50.610	ug/l	94
48) Methyl methacrylate	6.71	41	64468	45.672	ug/l	98
49) 1,4-Dioxane	6.69	88	11803	889.511	ug/l #	86
51) 4-Methyl-2-Pentanone	8.25	43	354165	211.319	ug/l	97
52) Toluene	7.62	92	306241	45.250	ug/l	99
53) t-1,3-Dichloropropene	8.27	75	146307	48.336	ug/l	99
54) cis-1,3-Dichloropropene	7.29	75	194609	48.269	ug/l	97
55) 1,1,2-Trichloroethane	8.48	97	94087	47.317	ug/l	94
56) Ethyl methacrylate	8.61	69	103658	46.823	ug/l	93
57) 1,3-Dichloropropane	8.84	76	154022	46.407	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.28	63	74575	195.239	ug/l	96
59) 2-Hexanone	9.48	43	237268	201.962	ug/l	98
60) Dibromochloromethane	8.71	129	132044	47.710	ug/l	98
61) 1,2-Dibromoethane	8.98	107	98196	45.530	ug/l	97
64) Tetrachloroethene	8.14	164	157408	52.448	ug/l	97
65) Chlorobenzene	9.79	112	360948	48.444	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.93	131	145151	49.716	ug/l	98
67) Ethyl Benzene	9.89	91	616757	49.776	ug/l	98
68) m/p-Xylenes	10.12	106	452266	95.374	ug/l	98
69) o-Xylene	10.71	106	255121	50.419	ug/l	94
70) Styrene	10.78	104	355718	49.693	ug/l	99
71) Bromoform	10.76	173	76653	48.349	ug/l	97
73) Isopropylbenzene	11.12	105	718018	50.156	ug/l	98
74) N-amyl acetate	11.37	43	160760	46.785	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.69	83	116283	45.340	ug/l	99
76) 1,2,3-Trichloropropane	11.79	75	81234	46.587	ug/l	98
77) Bromobenzene	11.48	156	165017	46.660	ug/l	87
78) n-propylbenzene	11.58	91	774336	47.136	ug/l	96
79) 2-Chlorotoluene	11.71	91	450738	48.992	ug/l	95
80) 1,3,5-Trimethylbenzene	11.82	105	557652	48.739	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.86	75	35036m	41.911	ug/l	
82) 4-Chlorotoluene	11.89	91	450647	47.191	ug/l	93
83) tert-Butylbenzene	12.13	119	611058	48.218	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	554641	48.794	ug/l	96
85) sec-Butylbenzene	12.30	105	768120	46.871	ug/l	99
86) p-Isopropyltoluene	12.45	119	649375	47.215	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	313472	45.466	ug/l	96
88) 1,4-Dichlorobenzene	12.56	146	320969	48.406	ug/l	98
89) n-Butylbenzene	12.84	91	607302	46.762	ug/l	99
90) Hexachloroethane	12.91	117	162580	50.827	ug/l	97
91) 1,2-Dichlorobenzene	12.93	146	300086	45.759	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	16818	41.360	ug/l	83

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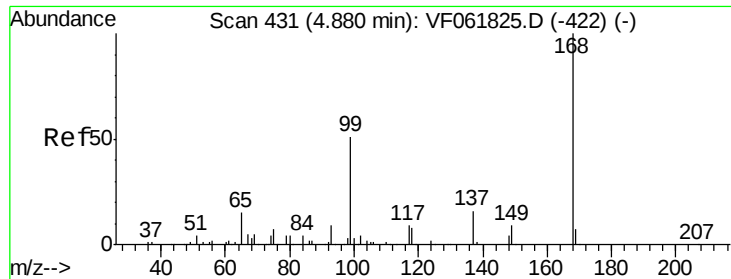
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	207221	44.084	ug/l	99
94) Hexachlorobutadiene	14.19	225	139438	48.031	ug/l	99
95) Naphthalene	14.45	128	384147	46.709	ug/l	100
96) 1,2,3-Trichlorobenzene	14.60	180	194170	45.005	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. -0.03 min

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Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 288045

Ion Ratio Lower Upper

168 100

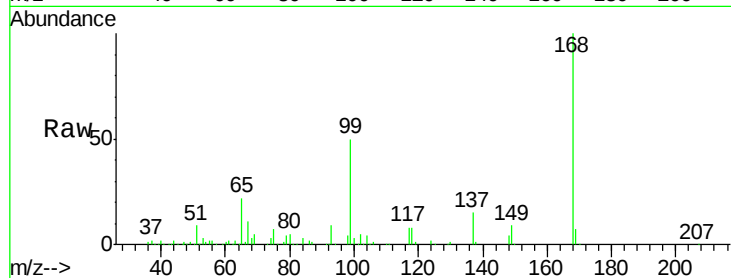
99 50.4 34.9 52.3

Manual Integrations

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3/5/2019 10:48:42 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

100000

80000

60000

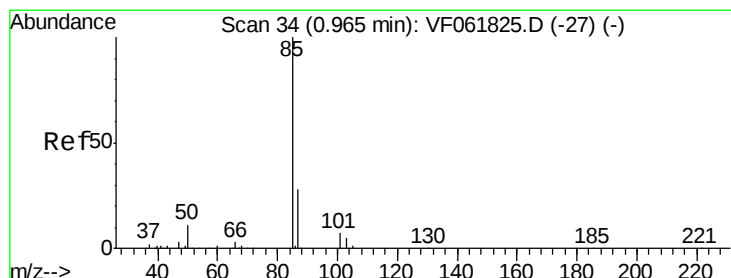
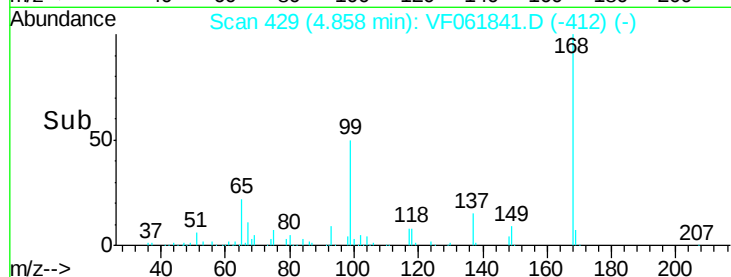
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#2

Dichlorodifluoromethane

Concen: 49.508 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061841.D

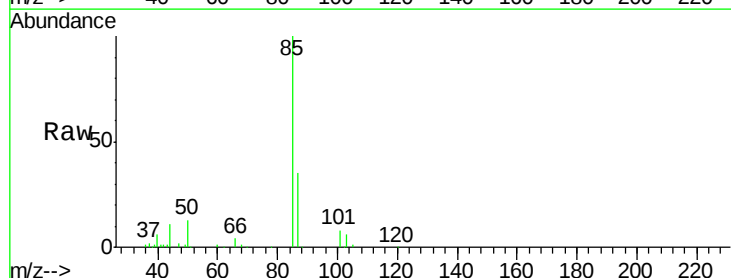
Acq: 5 Mar 2019 2:33

Tgt Ion: 85 Resp: 163767

Ion Ratio Lower Upper

85 100

87 35.4 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

50000

40000

30000

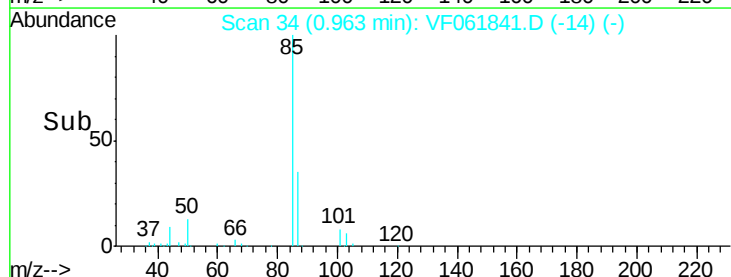
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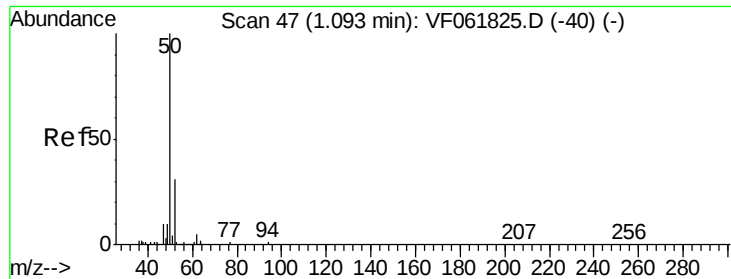
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0

Time-->

0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 46.069 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 159891

Ion Ratio Lower Upper

50 100

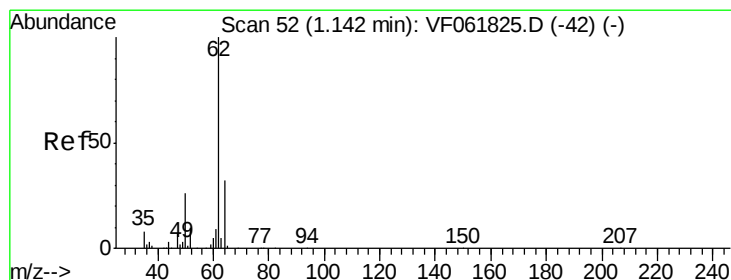
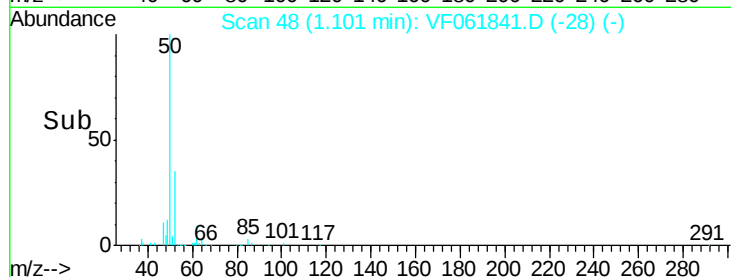
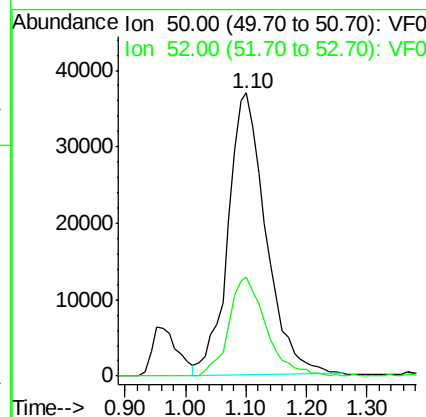
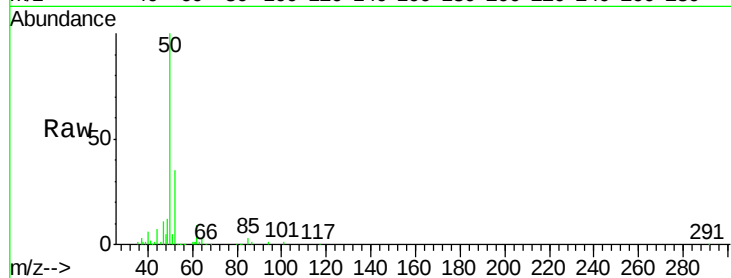
52 35.2 26.2 39.4

Manual Integrations

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#4

Vinyl Chloride

Concen: 48.195 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061841.D

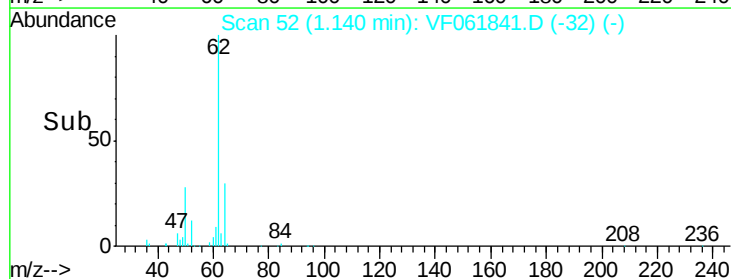
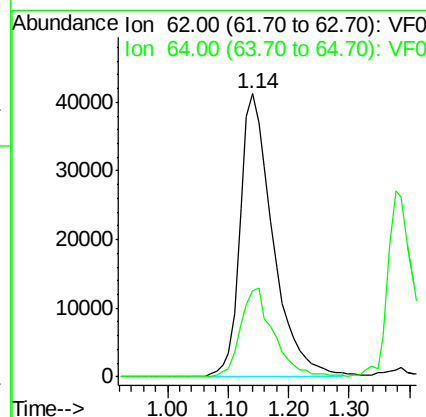
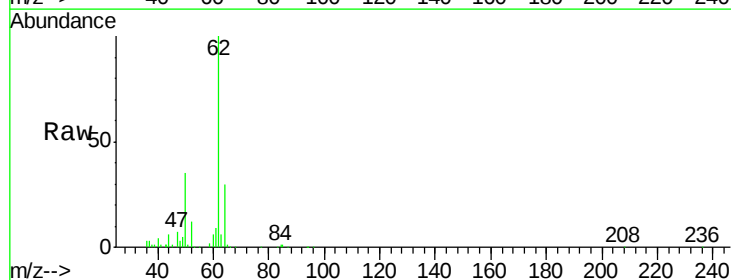
Acq: 5 Mar 2019 2:33

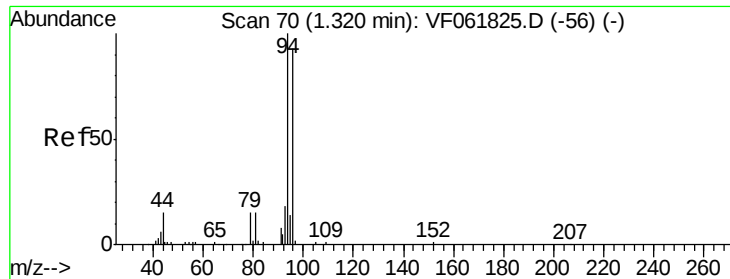
Tgt Ion: 62 Resp: 155498

Ion Ratio Lower Upper

62 100

64 30.5 27.5 41.3





#5

Bromomethane

Concen: 52.822 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 117295

Ion Ratio Lower Upper

94 100

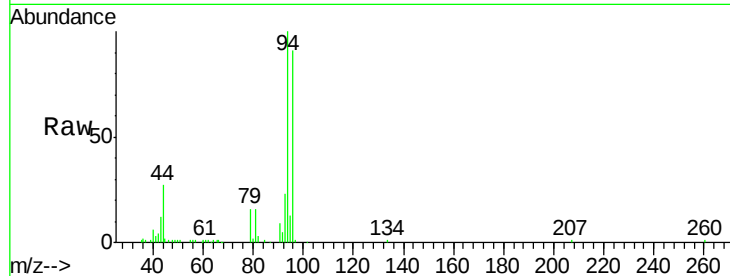
96 92.5 74.6 112.0

Manual Integrations

APPROVED

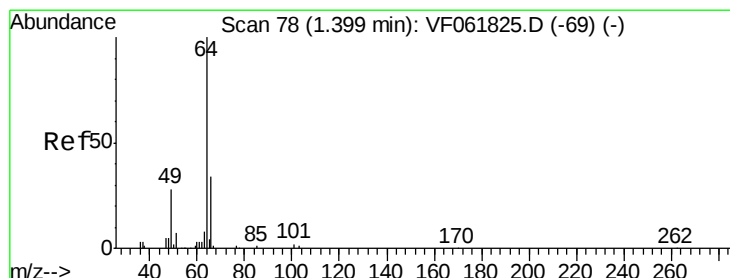
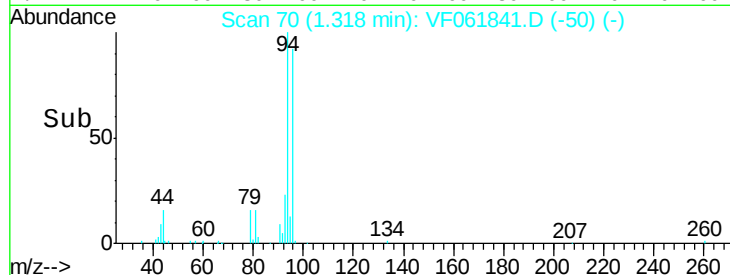
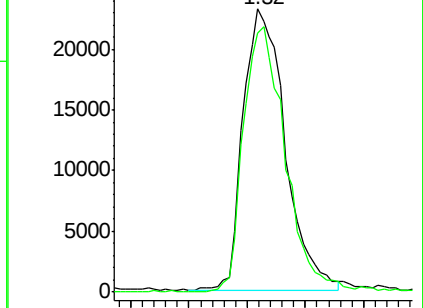
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3/5/2019 10:48:42 AM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 50.736 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.02 min

Lab File: VF061841.D

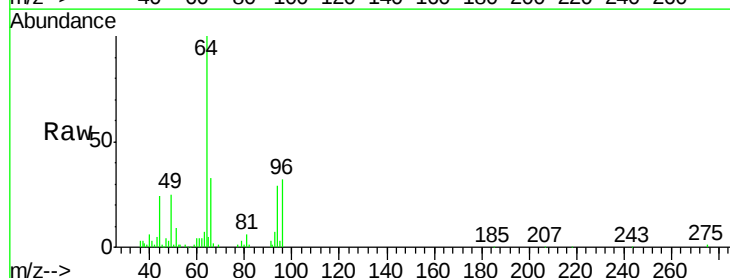
Acq: 5 Mar 2019 2:33

Tgt Ion: 64 Resp: 80672

Ion Ratio Lower Upper

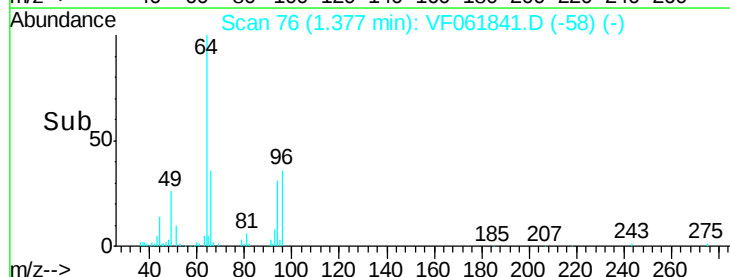
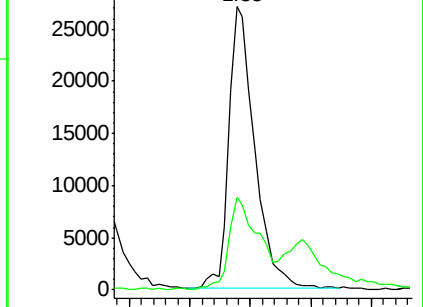
64 100

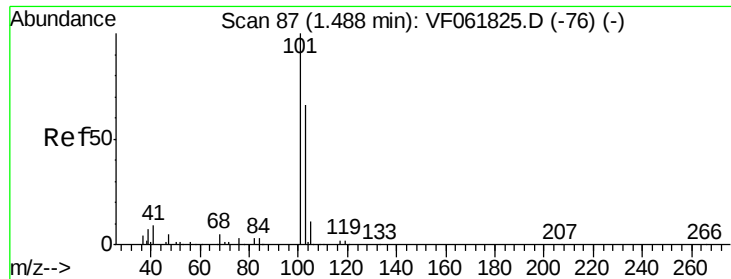
66 32.6 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

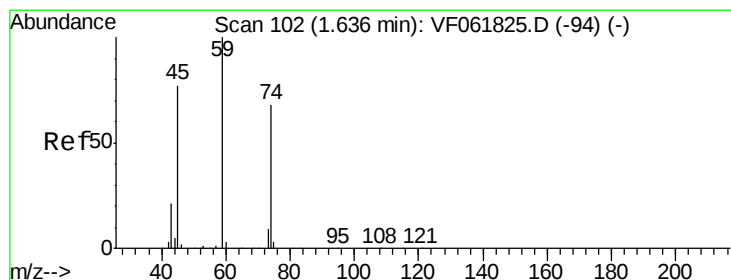
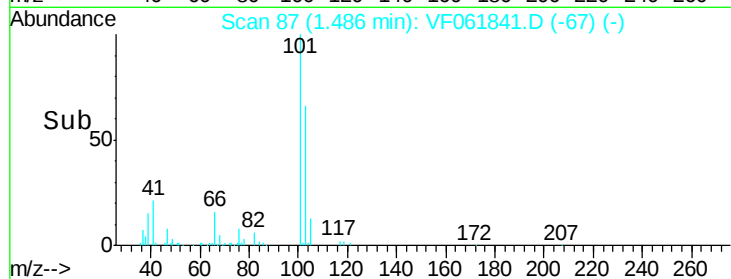
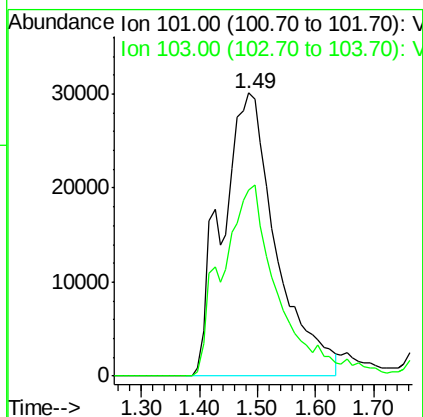
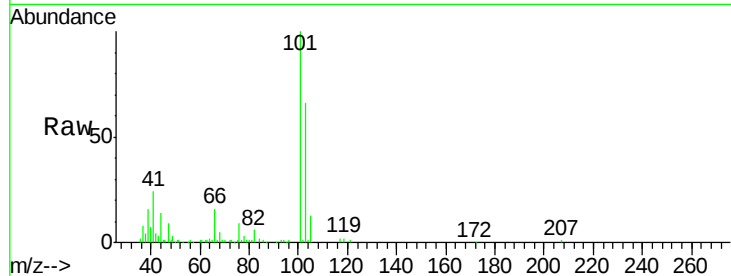
Trichlorofluoromethane
 Concen: 50.240 ug/l
 RT: 1.49 min Scan# 87
 Delta R.T. -0.00 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.8	49.3	73.9

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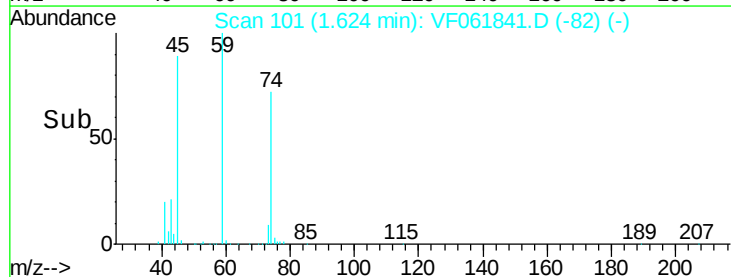
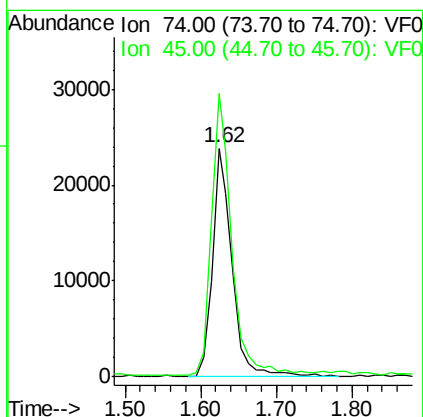
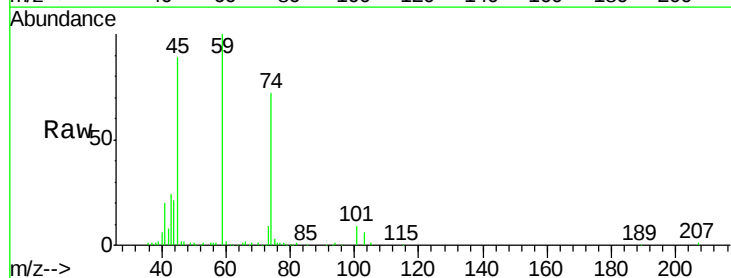
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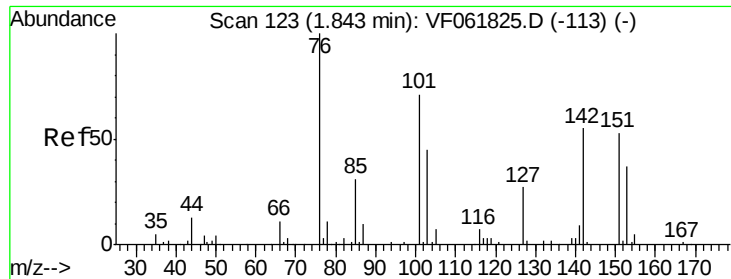


#8

Diethyl Ether
 Concen: 44.671 ug/l
 RT: 1.62 min Scan# 101
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
74	100		
45	123.8	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.967 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

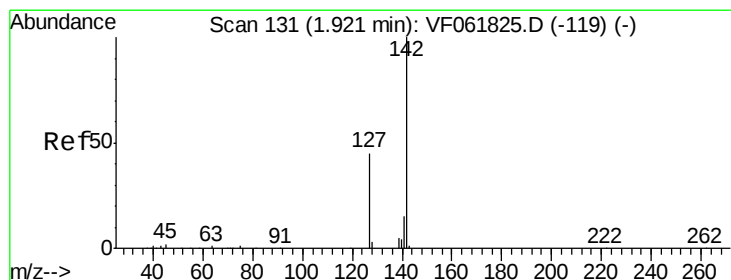
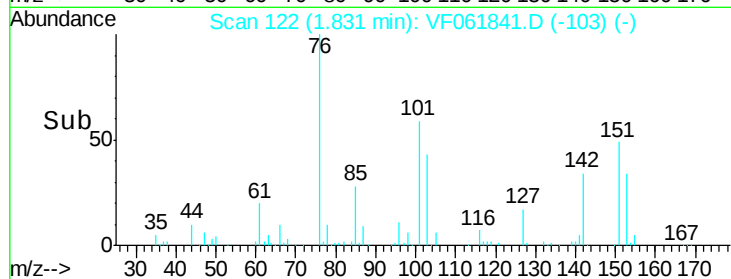
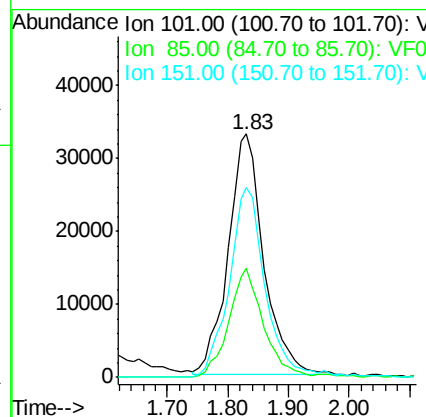
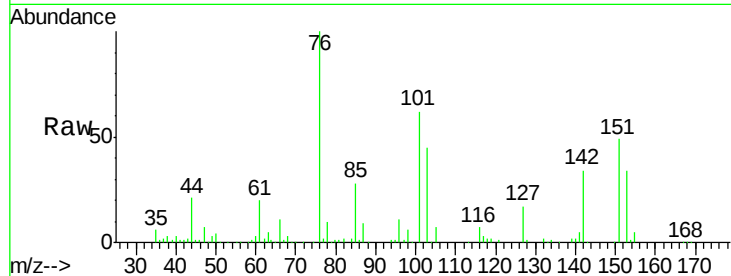
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	134662
Ion Ratio	Lower	Upper	
101	100		
85	44.6	29.8	44.6
151	78.2	56.3	84.5

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3/5/2019 10:48:42 AM



#10

Methyl Iodide

Concen: 49.727 ug/l m

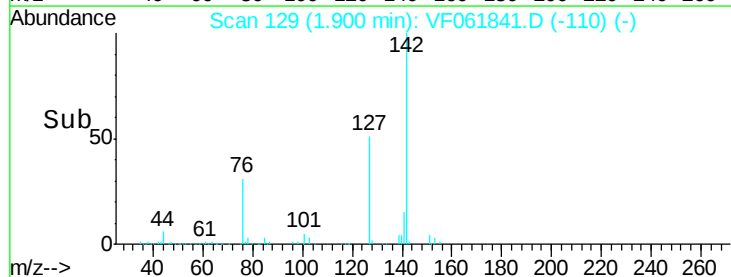
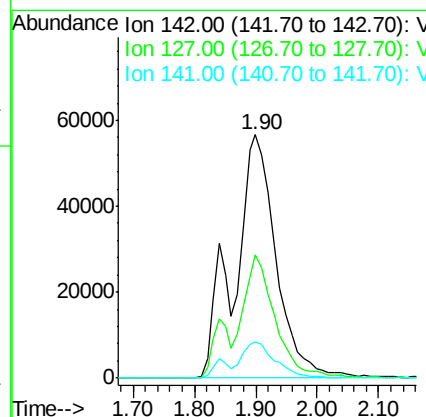
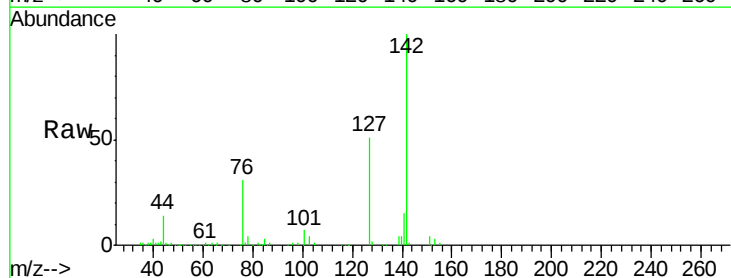
RT: 1.90 min Scan# 129

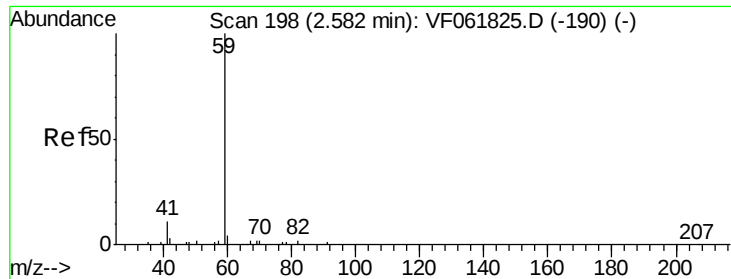
Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tgt Ion:	142	Resp:	266671
Ion Ratio	Lower	Upper	
142	100		
127	50.8	36.6	55.0
141	14.7	11.0	16.6





#11

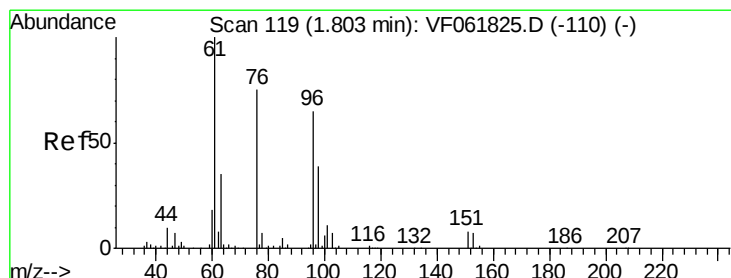
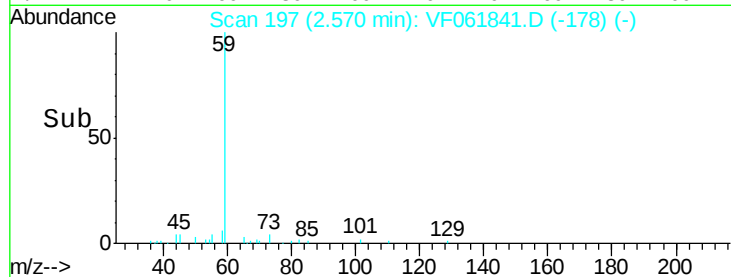
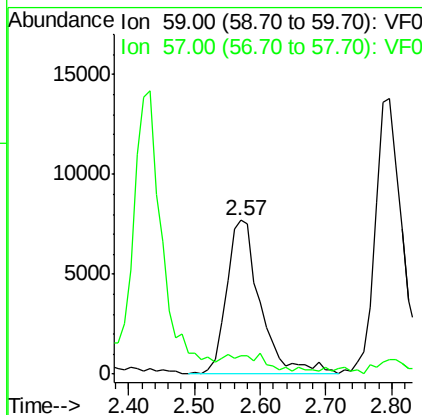
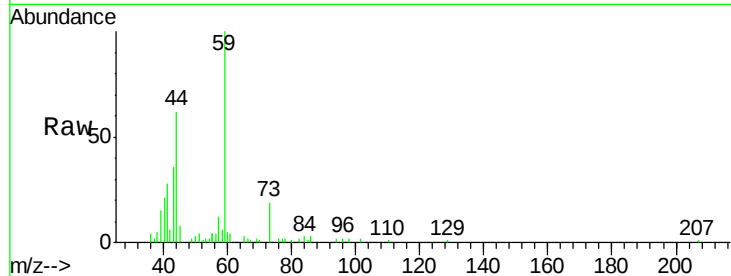
Tert butyl alcohol
Concen: 227.273 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	59	Resp	27783
Ion Ratio	100	Lower	Upper
57	12.3	12.5	18.7#

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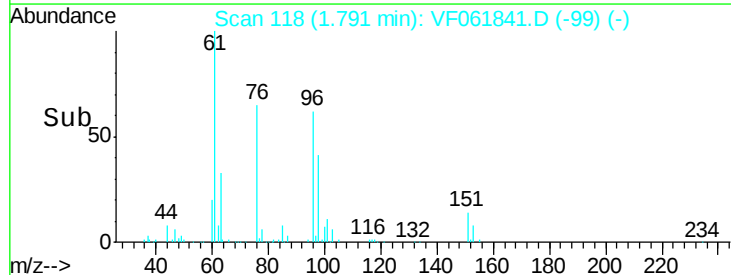
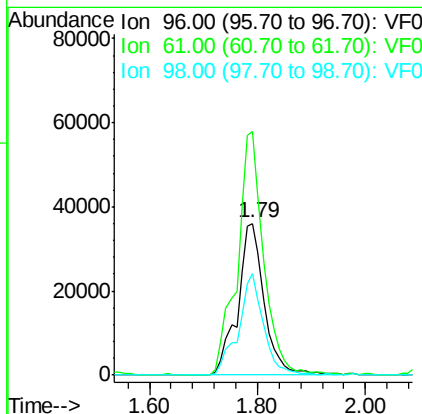
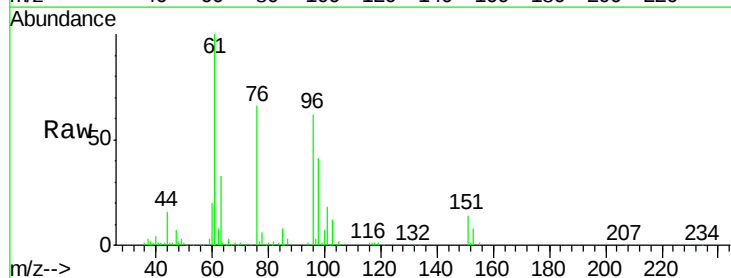
MMDadoda
3/5/2019 10:48:42 AM

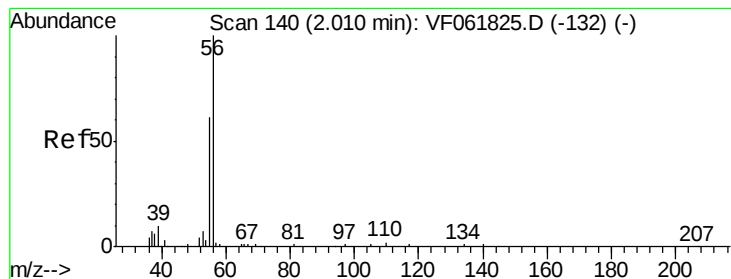


#12

1,1-Dichloroethene
Concen: 49.947 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	96	Resp	123282
Ion Ratio	100	Lower	Upper
61	160.1	122.6	184.0
98	66.4	47.2	70.8





#13

Acrolein

Concen: 225.761 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 34686

Ion Ratio Lower Upper

56 100

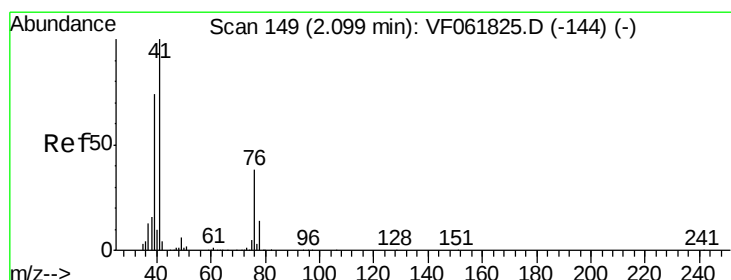
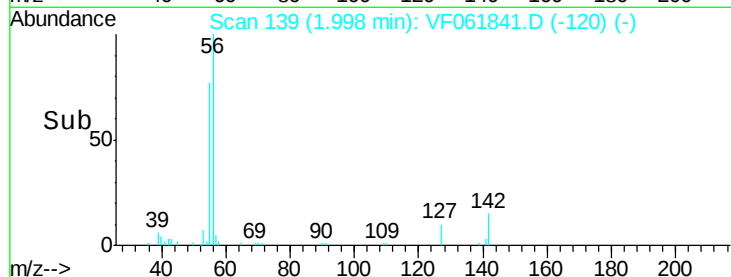
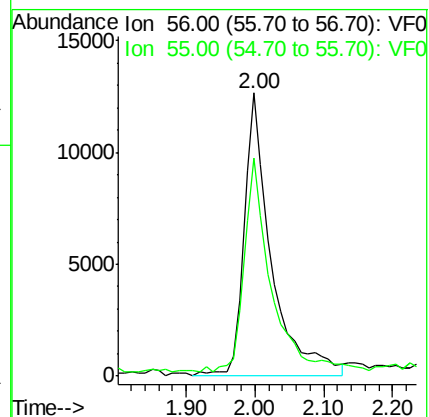
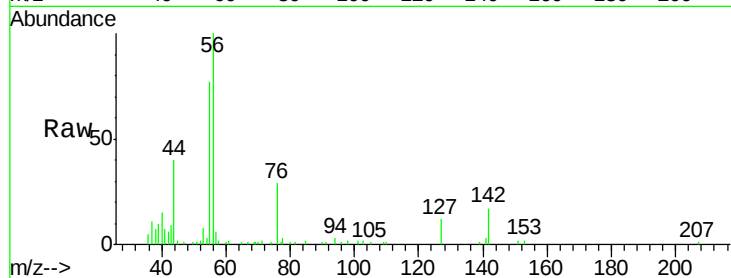
55 77.2 55.0 82.6

Manual Integrations

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#14

Allyl chloride

Concen: 46.927 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

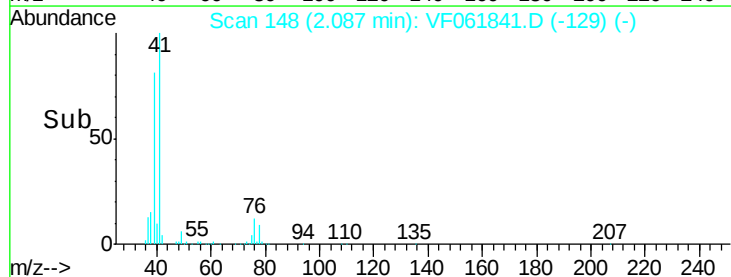
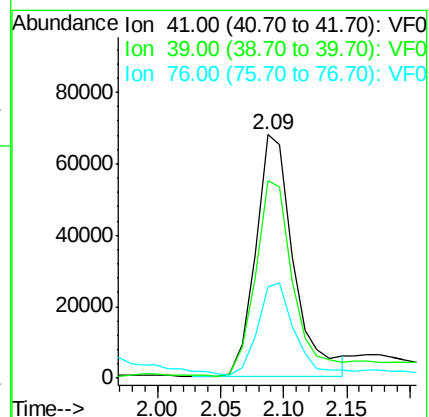
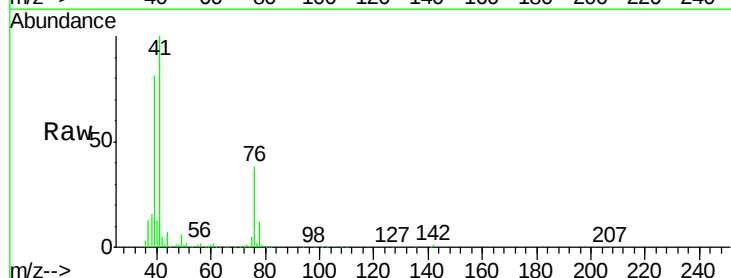
Tgt Ion: 41 Resp: 142133

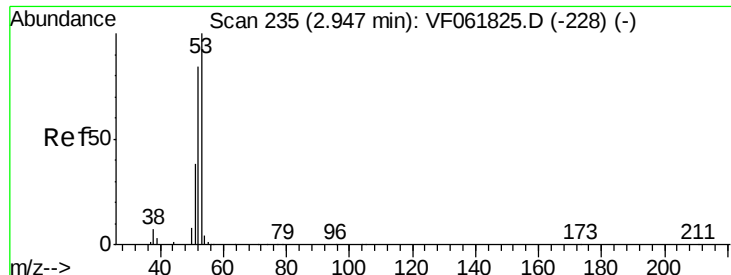
Ion Ratio Lower Upper

41 100

39 80.9 61.6 92.4

76 37.6 30.3 45.5





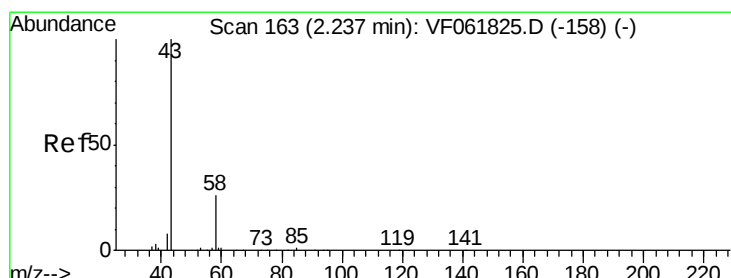
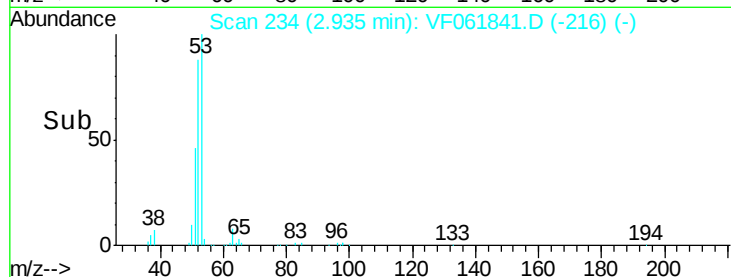
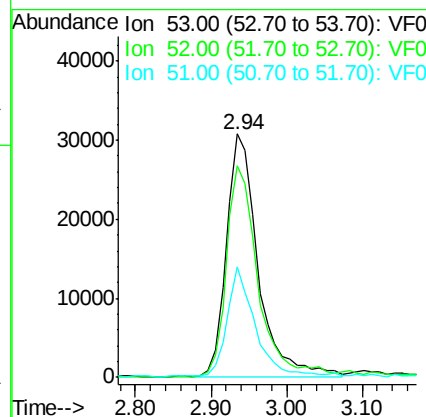
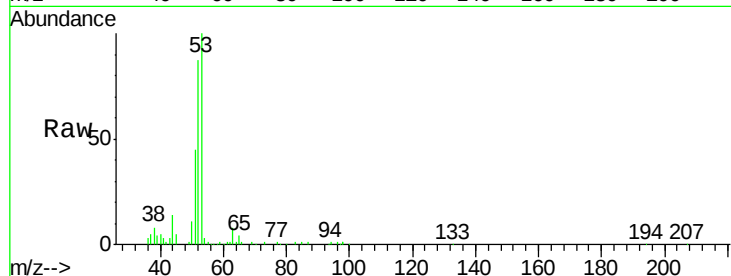
#15
 Acrylonitrile
 Concen: 207.932 ug/l
 RT: 2.94 min Scan# 234
 Delta R.T. -0.02 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
53	100		
52	86.8	64.6	97.0
51	45.1	29.8	44.8#

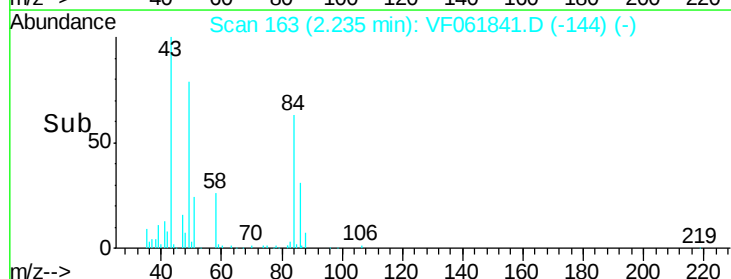
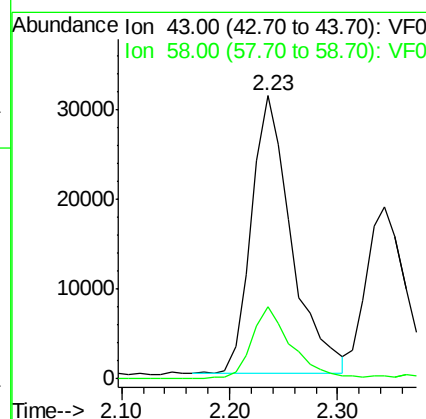
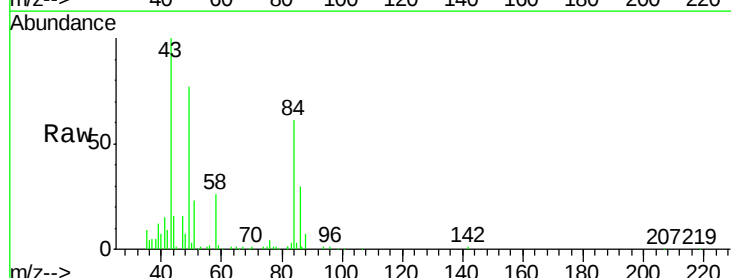
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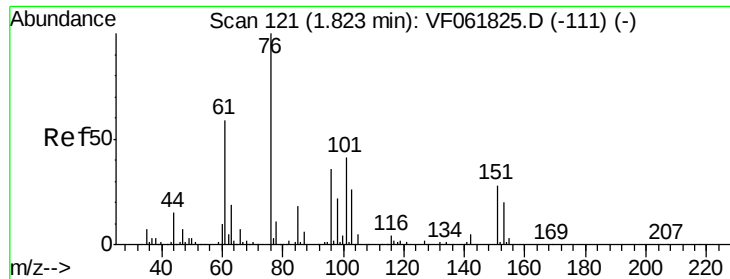
MMDadoda
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#16
 Acetone
 Concen: 176.767 ug/l
 RT: 2.23 min Scan# 163
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.6	22.9	34.3





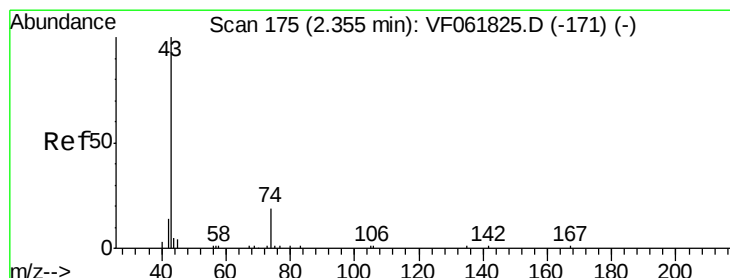
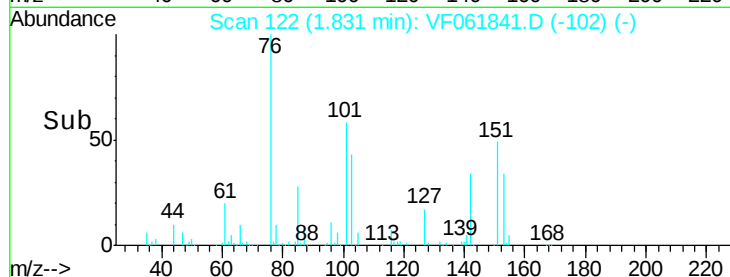
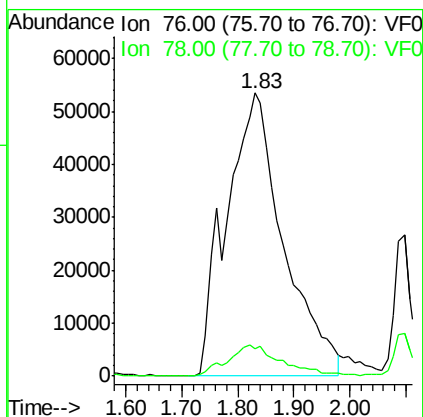
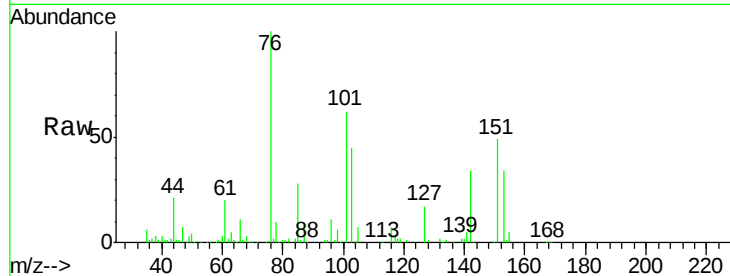
#17
Carbon Disulfide
Concen: 48.792 ug/l
RT: 1.83 min Scan# 122
Delta R.T. -0.00 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 76 Resp: 378556
Ion Ratio Lower Upper
76 100
78 10.3 7.9 11.9

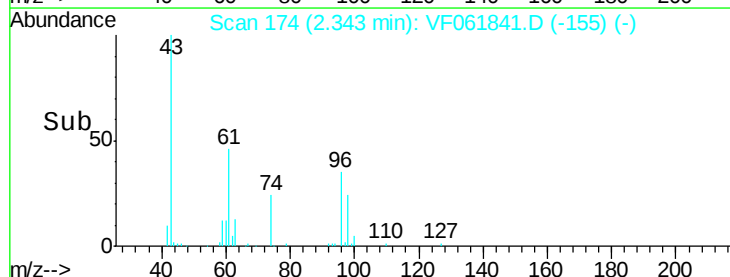
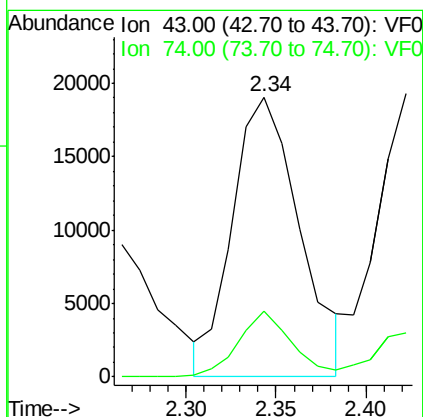
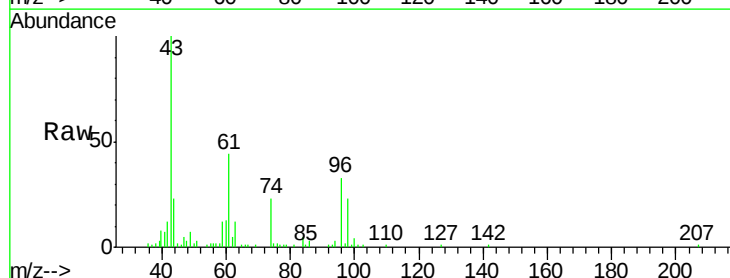
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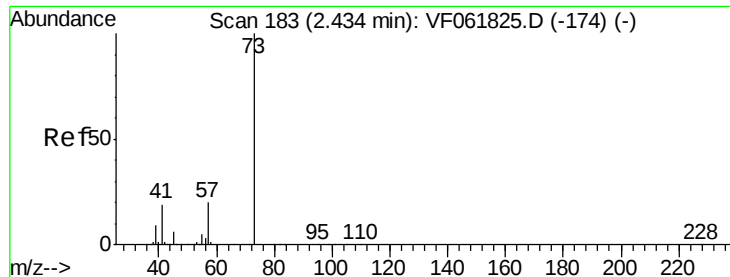
MMDadoda
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#18
Methyl Acetate
Concen: 48.319 ug/l m
RT: 2.34 min Scan# 174
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion: 43 Resp: 49331
Ion Ratio Lower Upper
43 100
74 23.4 14.6 21.8#





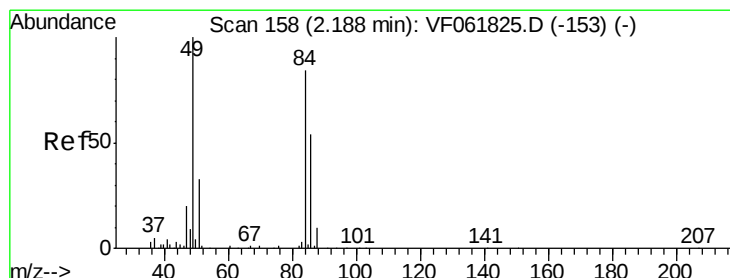
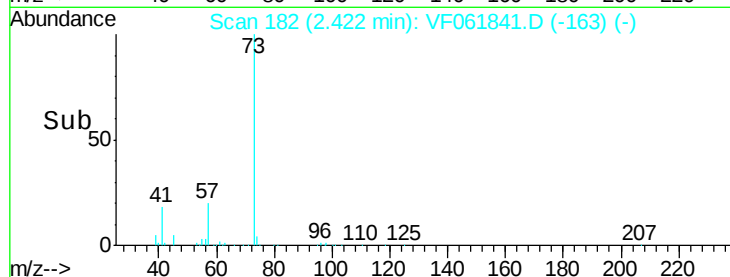
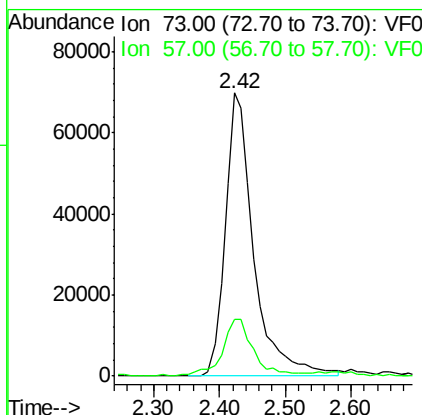
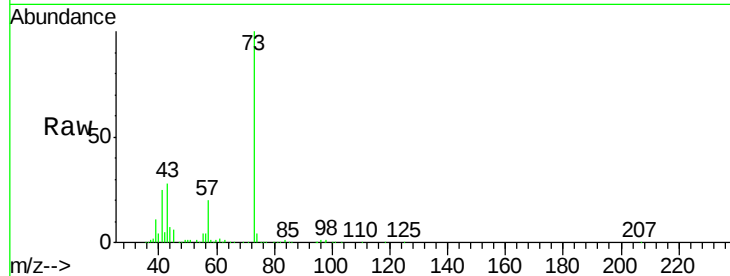
#19
Methyl tert-butyl Ether
Concen: 49.950 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 210707
Ion Ratio Lower Upper
73 100
57 19.9 15.8 23.8

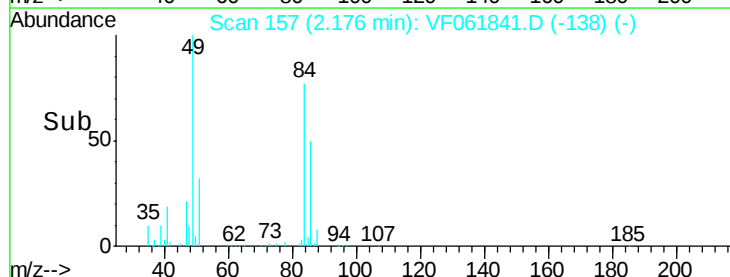
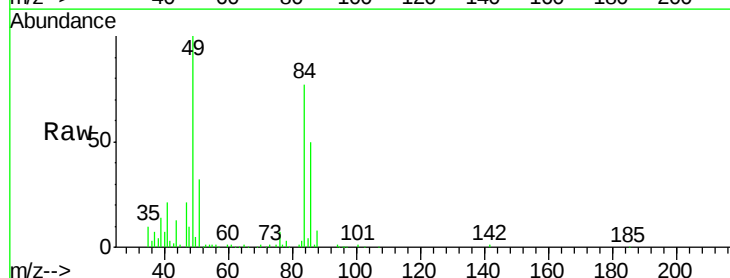
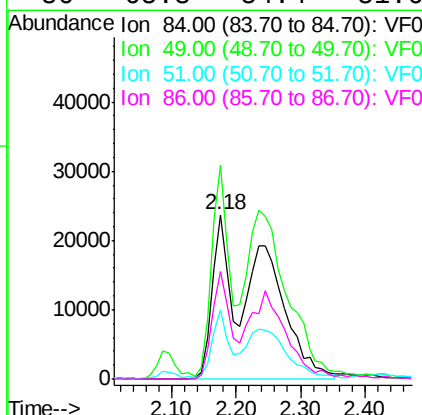
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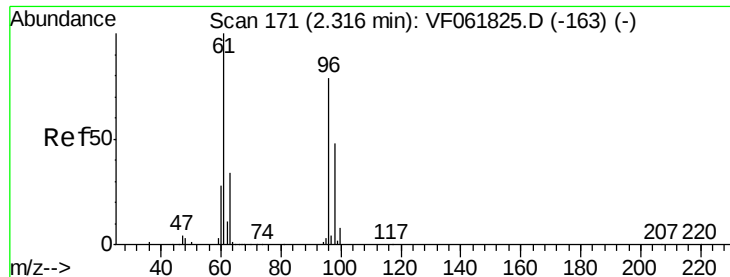
MMDadoda
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#20
Methylene Chloride
Concen: 45.224 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion: 84 Resp: 123809
Ion Ratio Lower Upper
84 100
49 129.9 101.8 152.8
51 42.1 31.1 46.7
86 65.3 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 48.326 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 96 Resp: 129669

Ion Ratio Lower Upper

96 100

61 137.9 108.2 162.4

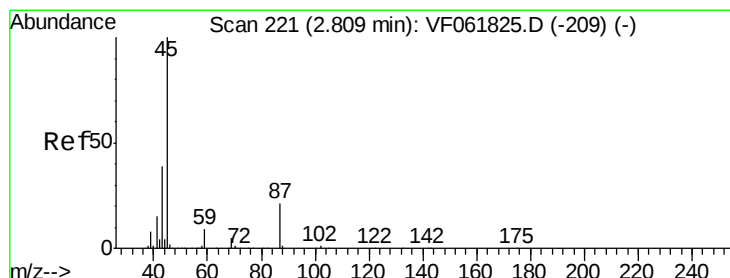
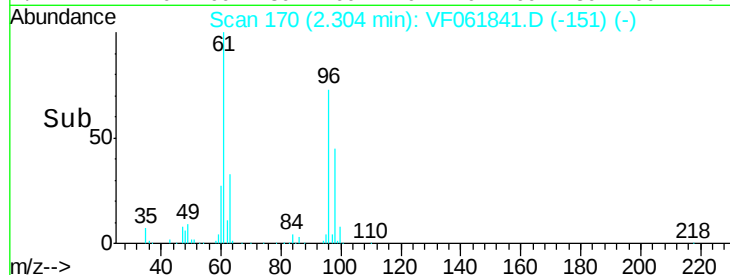
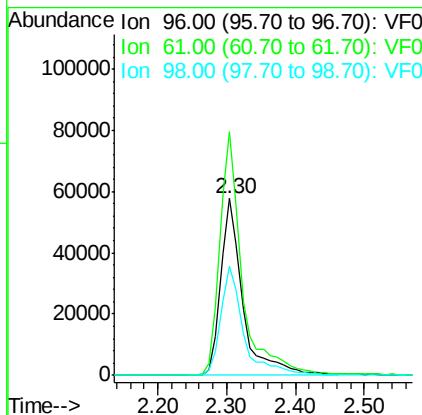
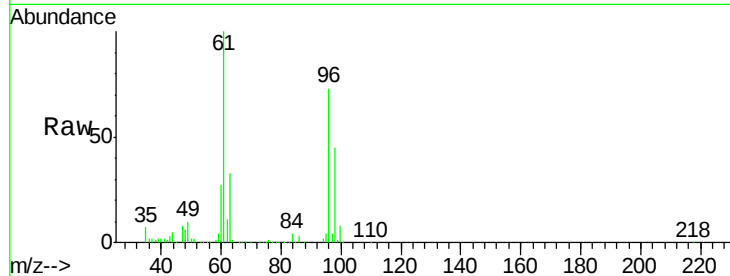
98 62.1 52.2 78.2

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#22

Diisopropyl ether

Concen: 51.841 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tgt Ion: 45 Resp: 376906

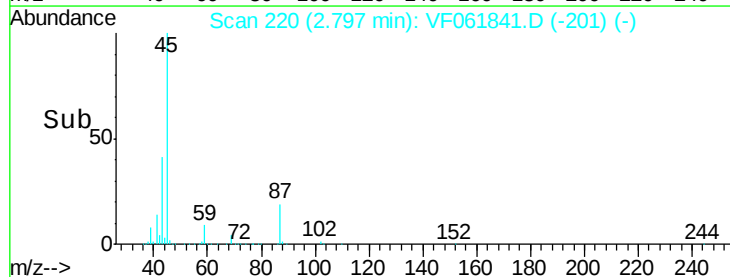
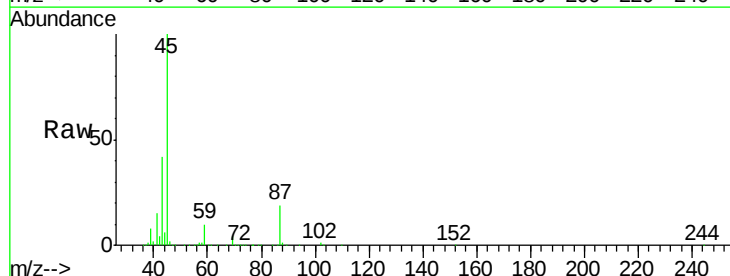
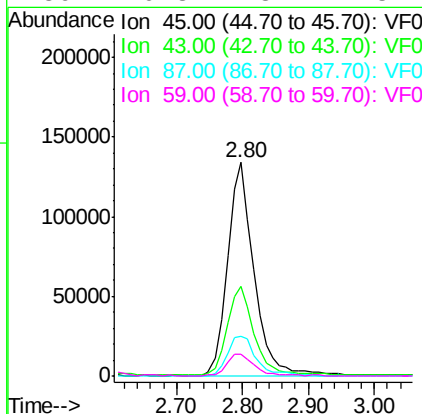
Ion Ratio Lower Upper

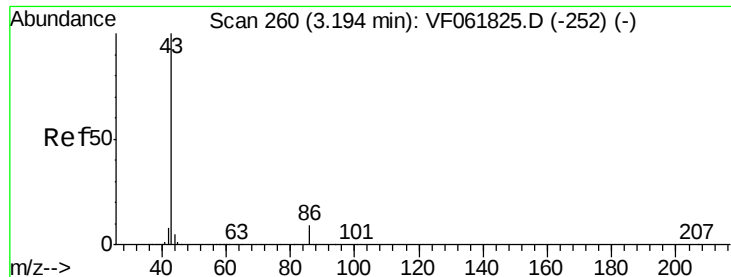
45 100

43 41.7 31.4 47.2

87 18.9 16.3 24.5

59 10.3 8.7 13.1





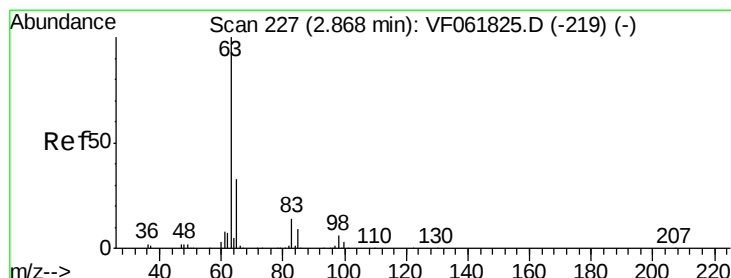
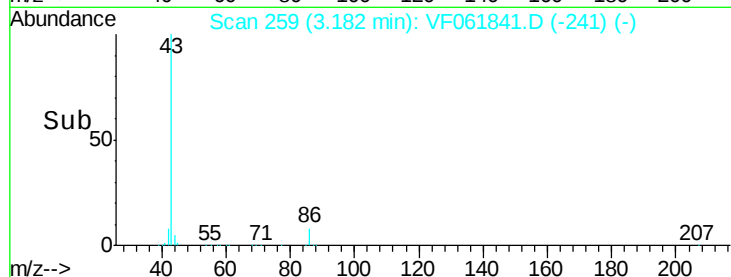
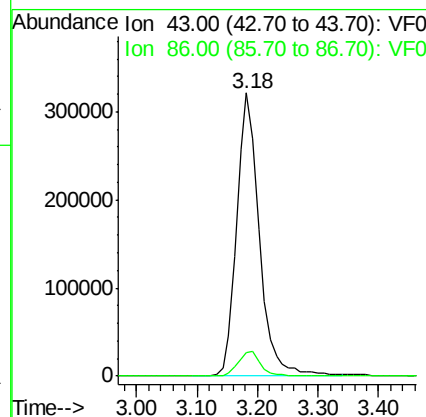
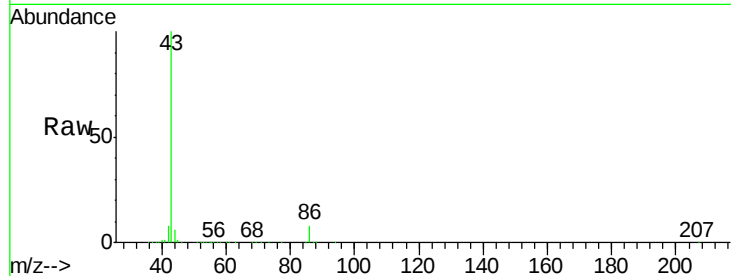
#23
 Vinyl Acetate
 Concen: 234.064 ug/l
 RT: 3.18 min Scan# 259
 Delta R.T. -0.02 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	43	Resp	831186
Ion Ratio	100	Lower	Upper
43	100		
86	8.3	7.5	11.3

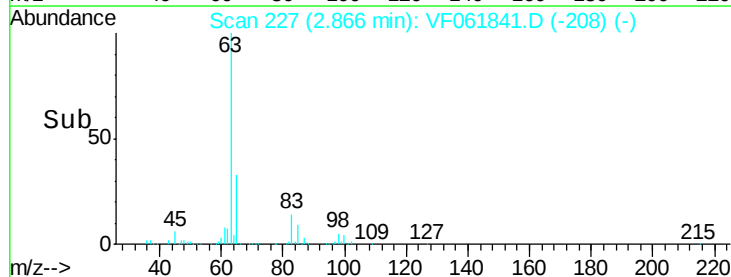
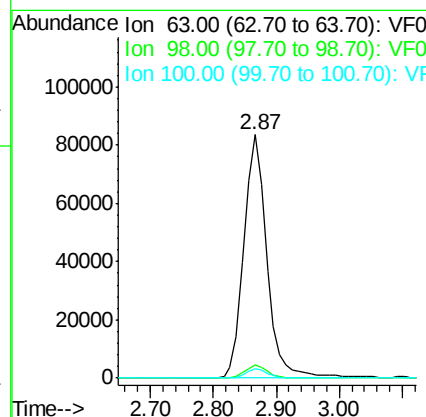
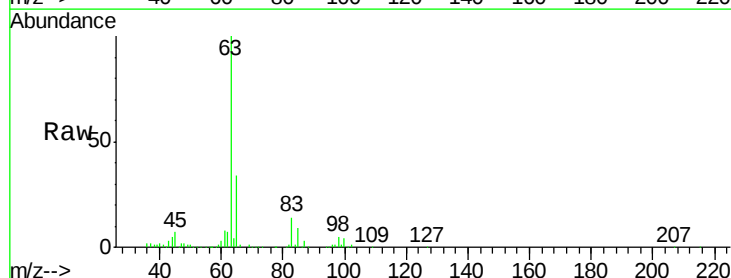
Manual Integrations
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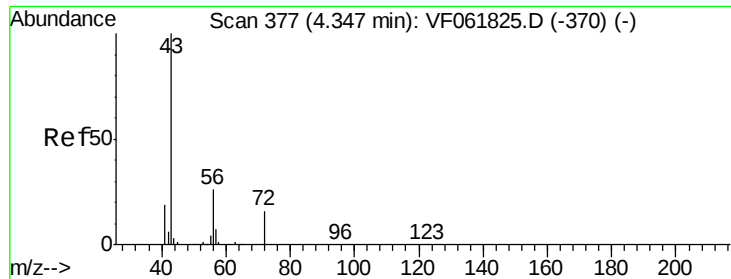
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 48.058 ug/l
 RT: 2.87 min Scan# 227
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Tgt Ion	63	Resp	211447
Ion Ratio	100	Lower	Upper
63	100		
98	5.3	2.8	8.3
100	3.7	1.8	5.4





#25

2-Butanone

Concen: 199.478 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tot Ion: 43 Resp: 197469

Ion Ratio Lower Upper

43 100

72 21.0 17.1 25.7

Instrument :

MSVOA_F

ClientSampleId :

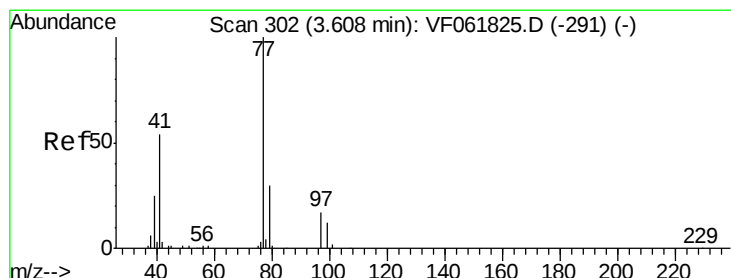
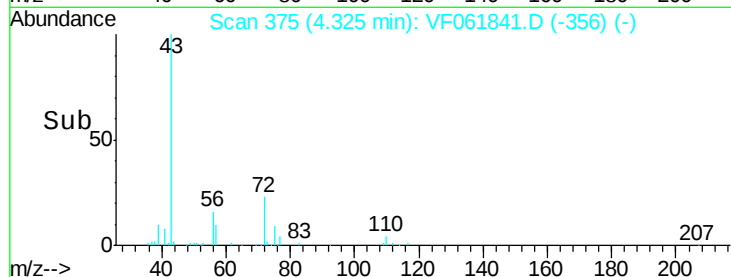
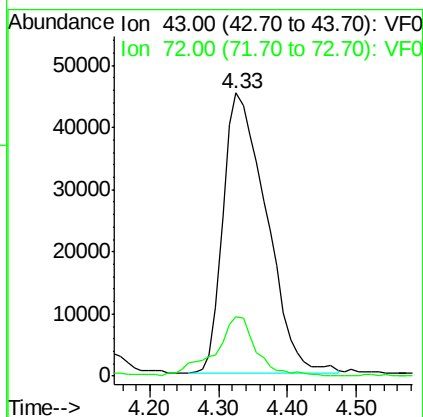
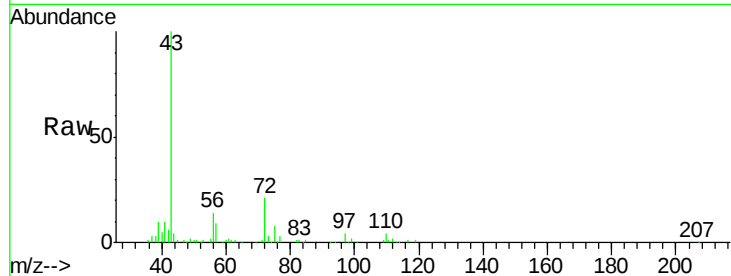
VSTDCCC050EC

Manual Integrations

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MMDadoda

3/5/2019 10:48:42 AM



#26

2,2-Dichloropropane

Concen: 47.397 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061841.D

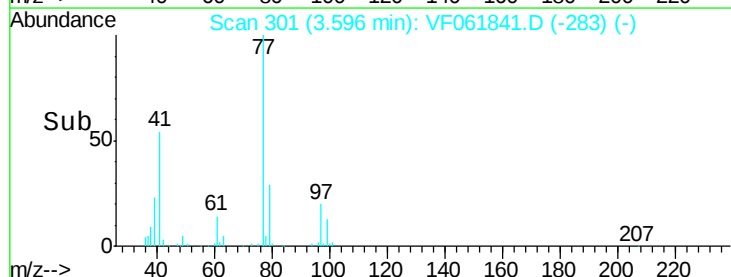
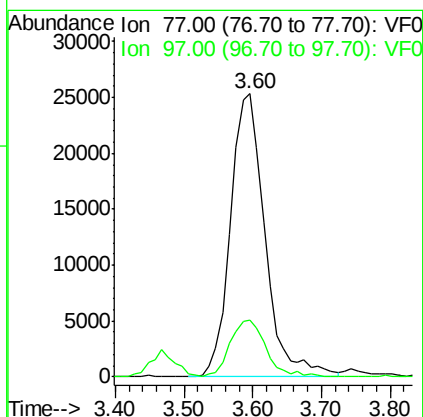
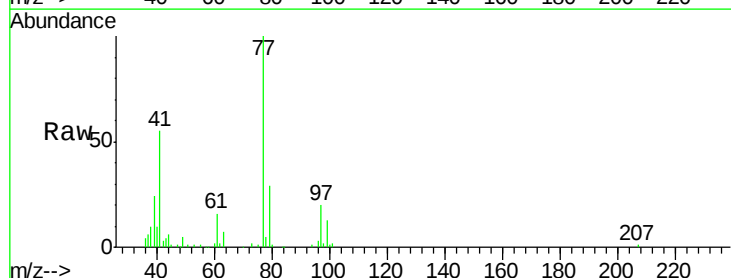
Acq: 5 Mar 2019 2:33

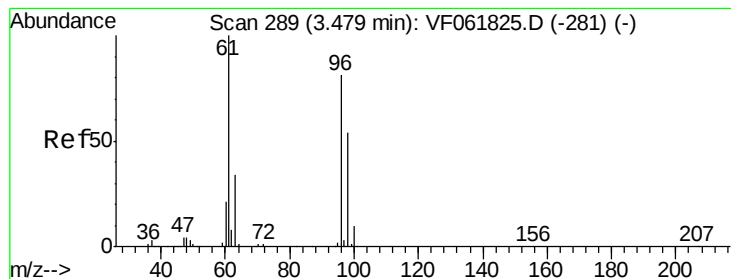
Tgt Ion: 77 Resp: 88333

Ion Ratio Lower Upper

77 100

97 19.9 11.7 35.0





#27

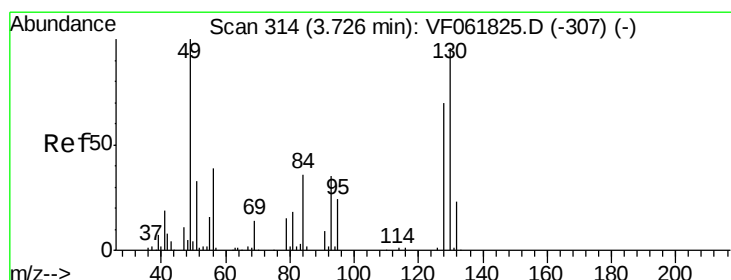
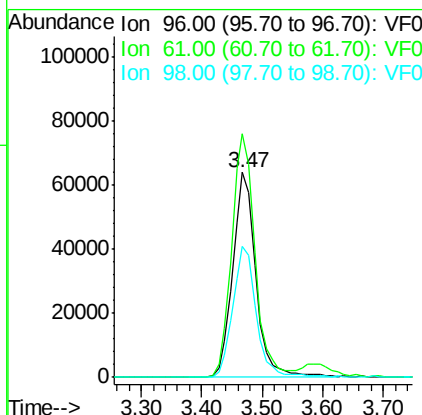
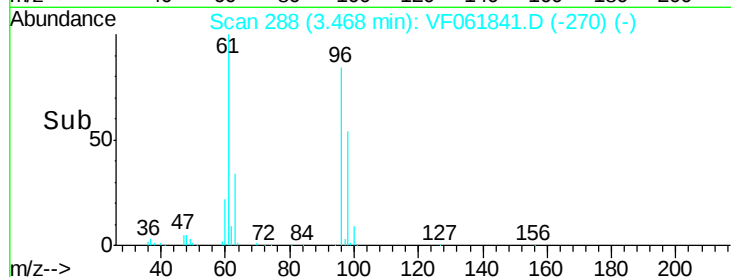
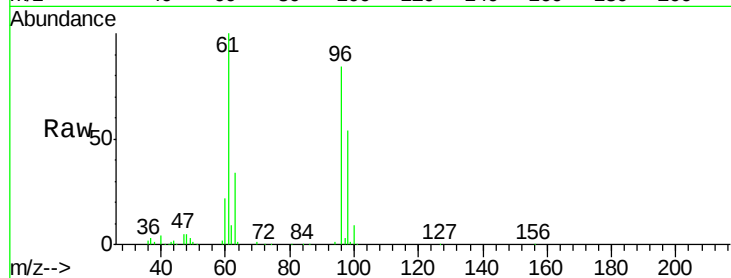
cis-1,2-Dichloroethene
 Concen: 48.251 ug/l
 RT: 3.47 min Scan# 288
 Delta R.T. -0.02 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
96	100	169933		
61	119.0		0.0	241.6
98	64.0		0.0	130.2

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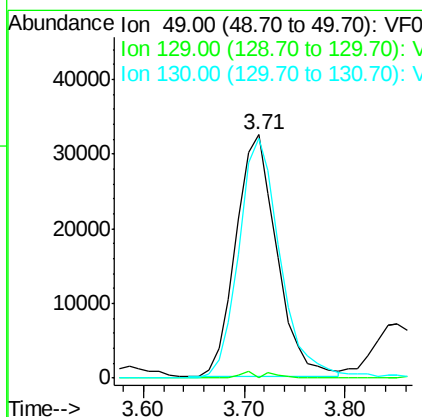
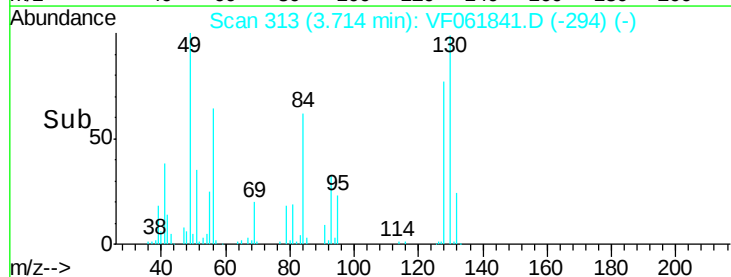
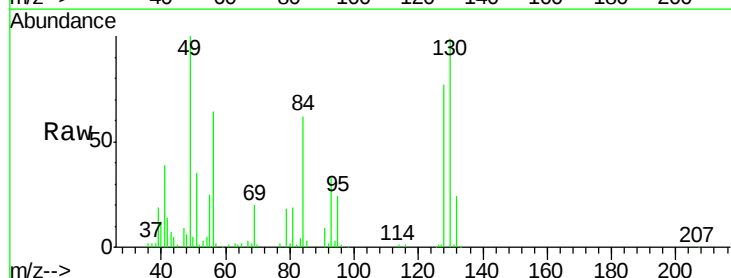
MMDadoda
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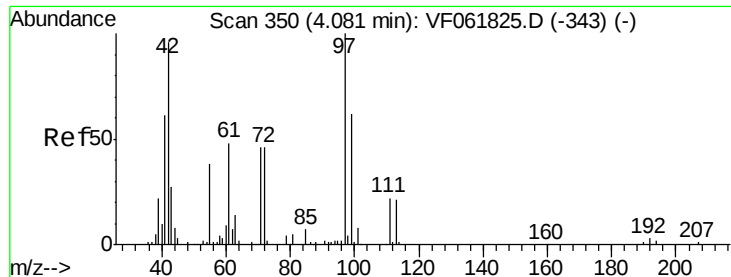


#28

Bromochloromethane
 Concen: 43.559 ug/l
 RT: 3.71 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	91958		
129	0.0		0.0	3.4
130	98.6		77.7	116.5





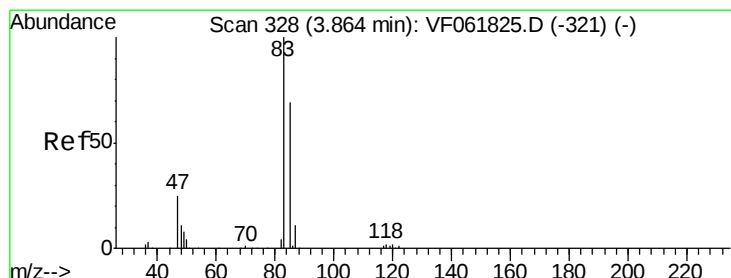
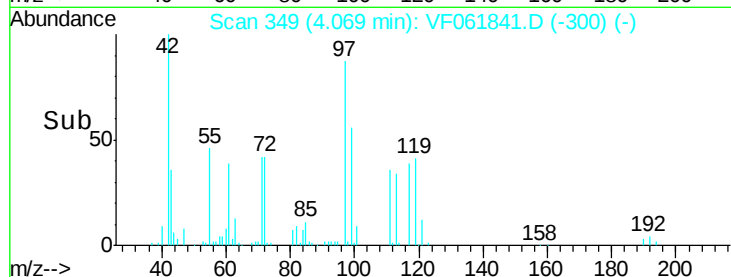
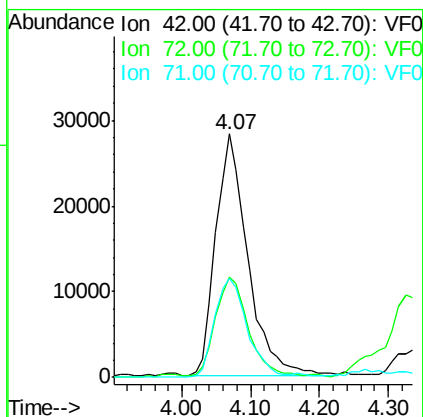
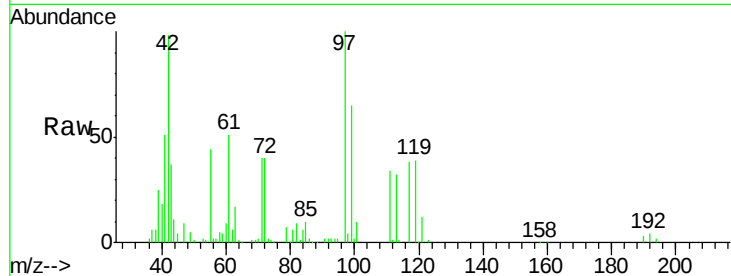
#29
Tetrahydrofuran
Concen: 202.835 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
42	100	91262		
72	42.4		35.2	52.8
71	41.5		32.9	49.3

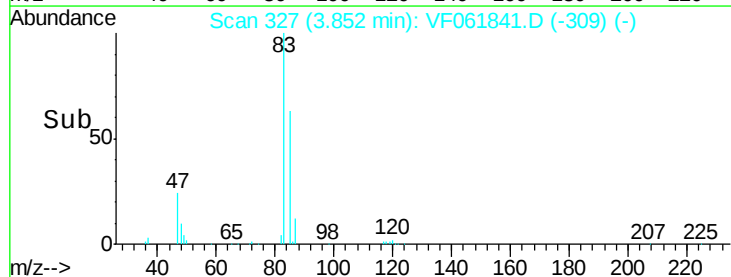
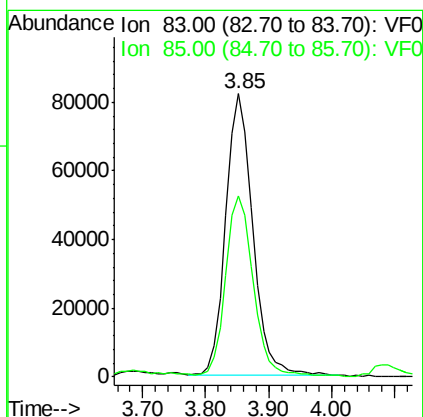
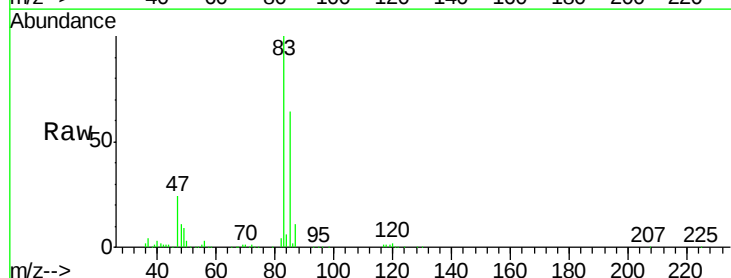
Manual Integrations
APPROVED

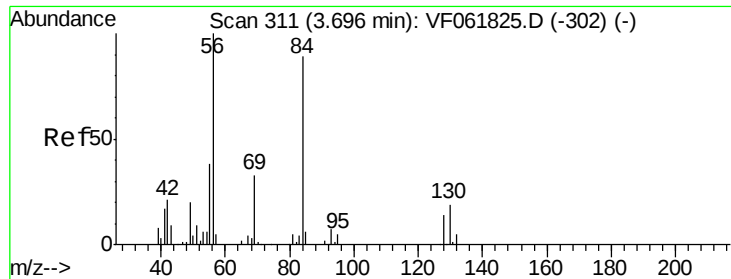
MMDadoda
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#30
Chloroform
Concen: 48.466 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	242505		
85	64.1		51.1	76.7





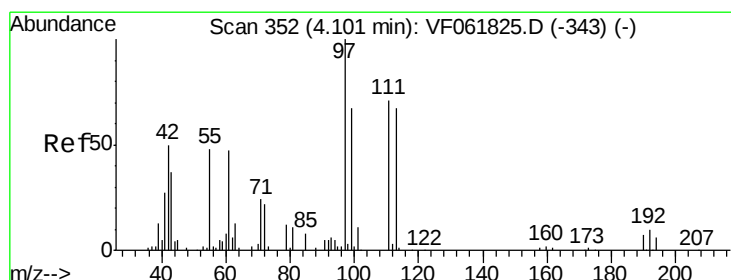
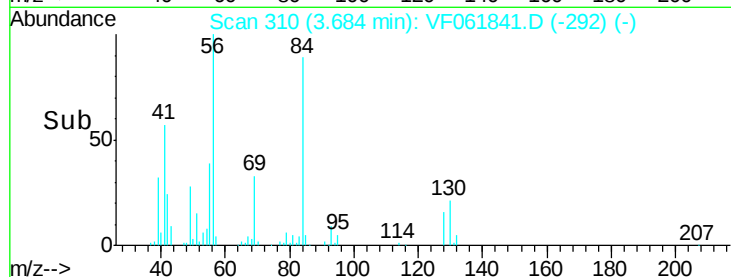
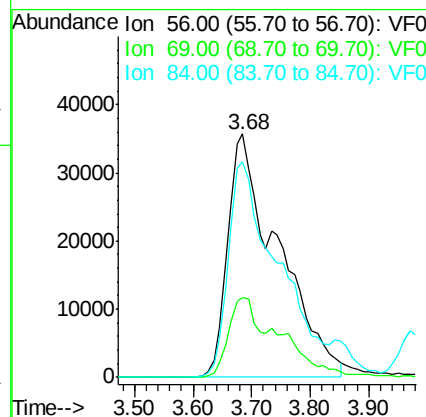
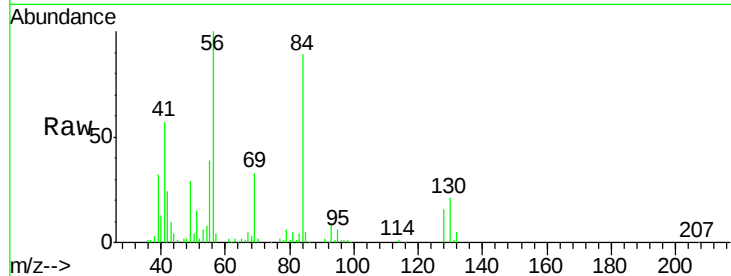
#31
Cyclohexane
Concen: 44.665 ug/l m
RT: 3.68 min Scan# 310
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.9	23.8	35.8
84	88.5	68.6	103.0

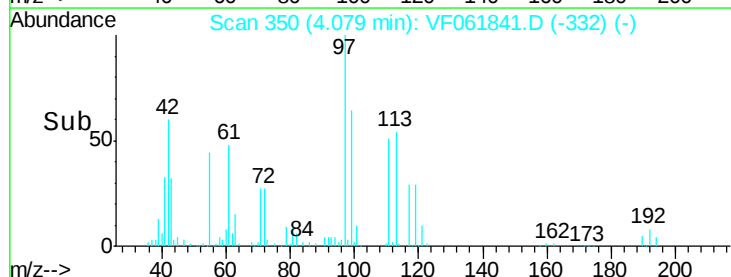
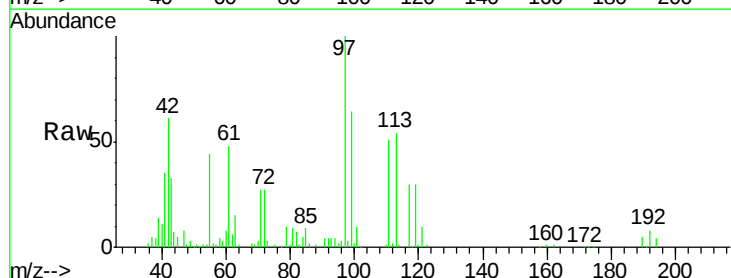
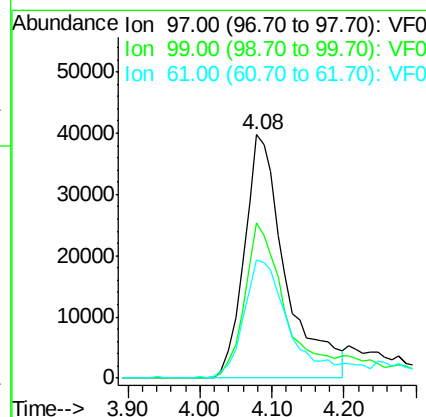
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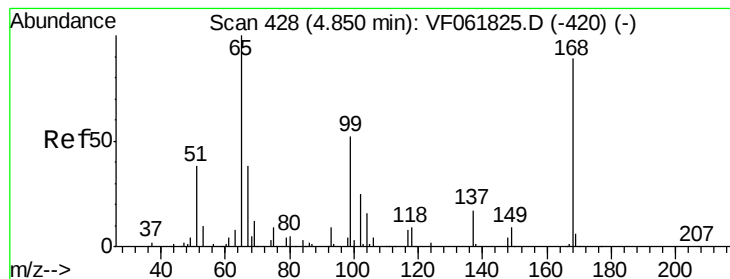
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#32
1,1,1-Trichloroethane
Concen: 48.500 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.2	78.2
61	48.5	39.2	58.8





#33

1,2-Dichloroethane-d4

Concen: 54.522 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 115166

Ion Ratio Lower Upper

65 100

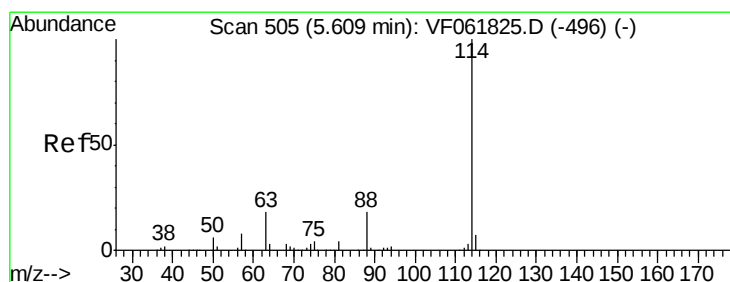
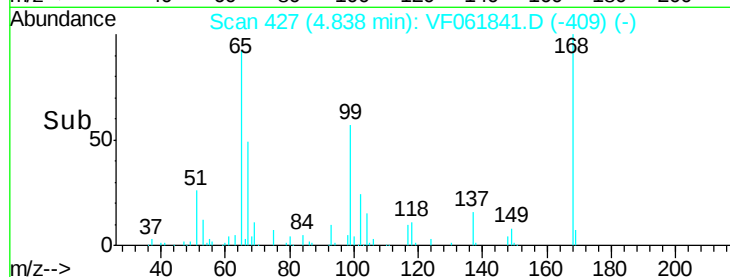
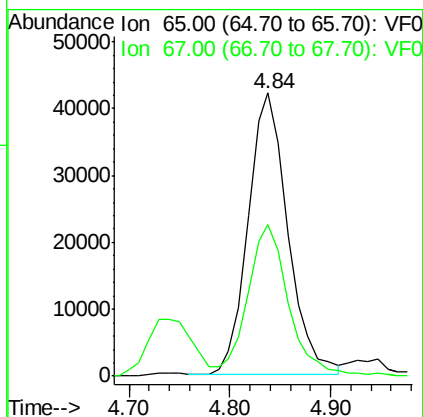
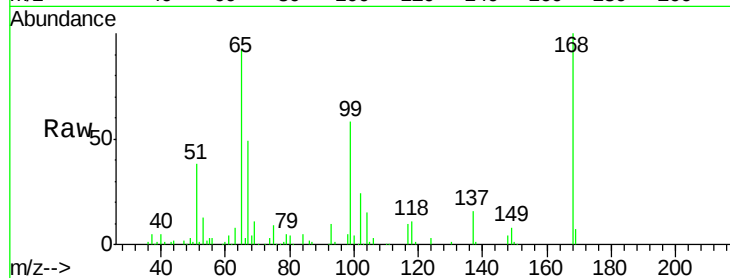
67 53.4 0.0 104.0

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

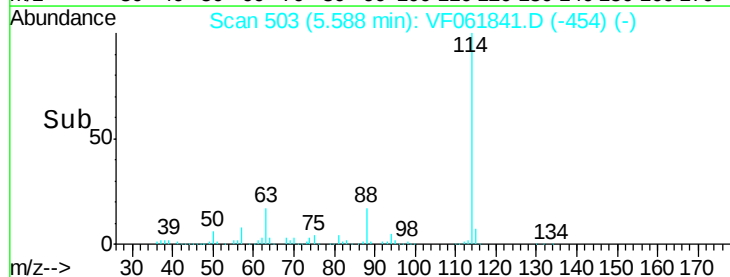
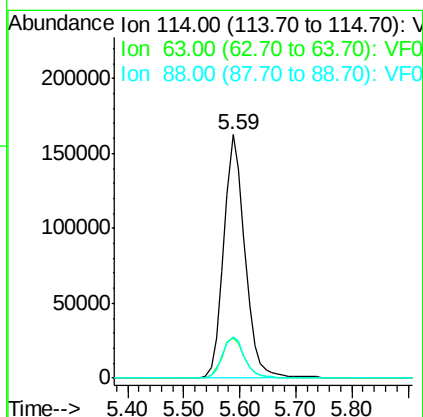
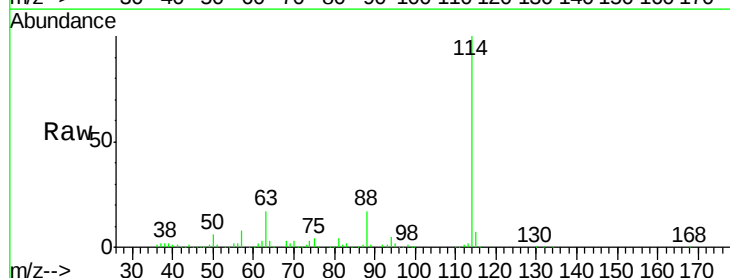
Tgt Ion: 114 Resp: 430663

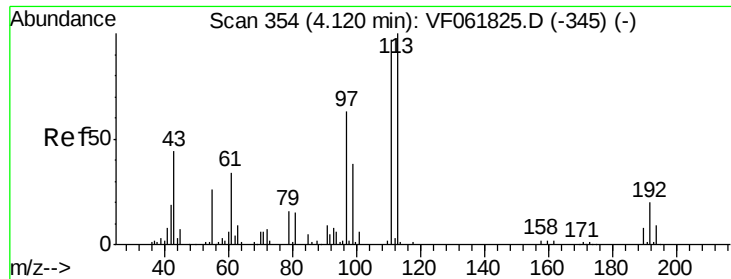
Ion Ratio Lower Upper

114 100

63 16.7 0.0 36.6

88 17.0 0.0 34.4





#35

Dibromofluoromethane

Concen: 49.494 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

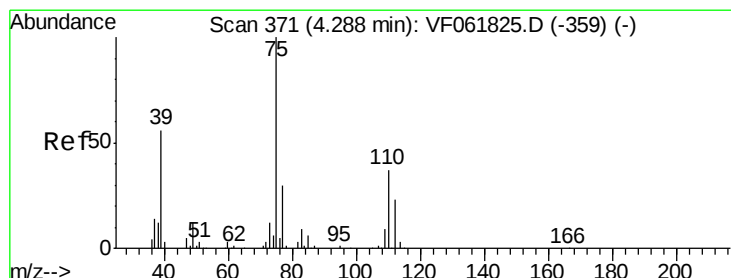
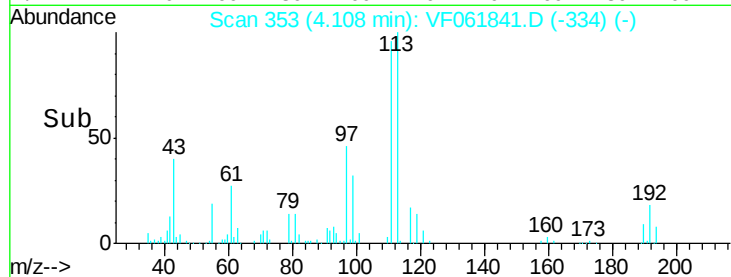
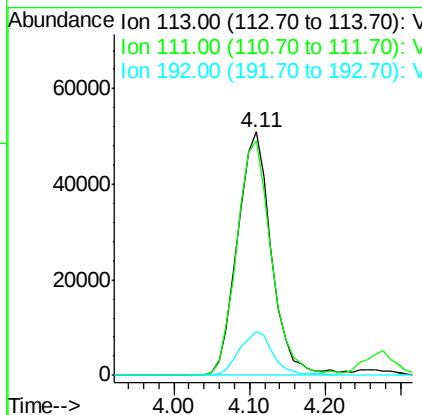
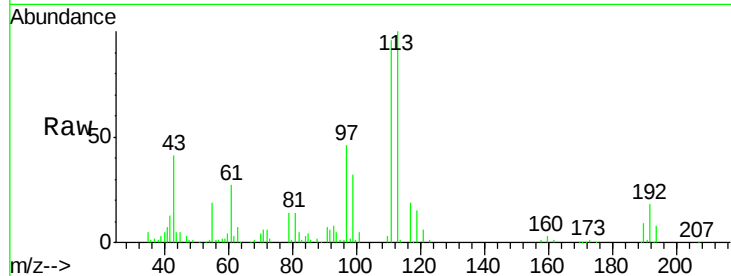
ClientSampleId :

VSTDCCC050EC

Tot Ion:	113	Resp:	158289
Ion Ratio	Lower	Upper	
113	100		
111	96.2	78.8	118.2
192	18.2	13.4	20.0

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 47.407 ug/l

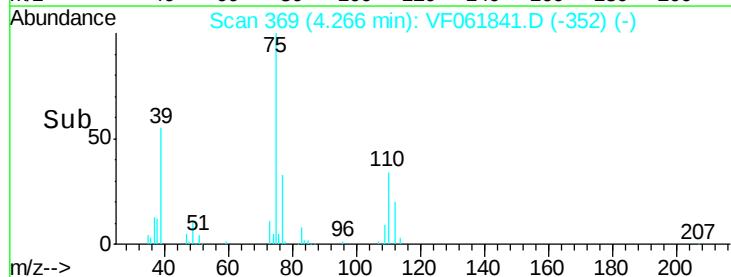
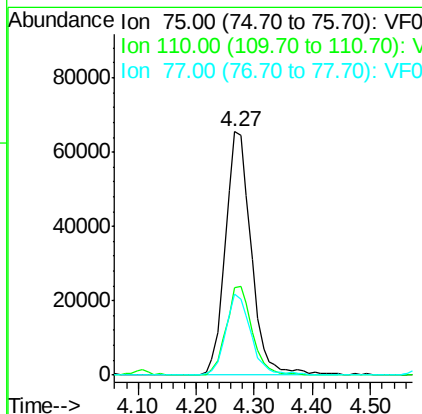
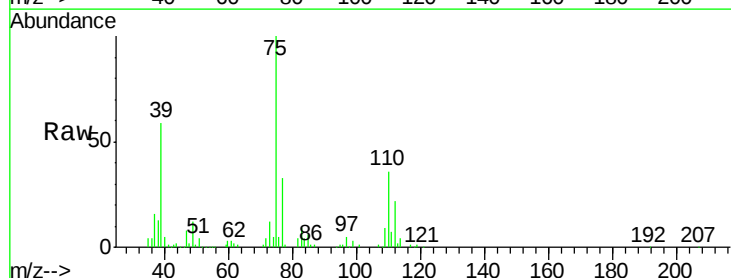
RT: 4.27 min Scan# 369

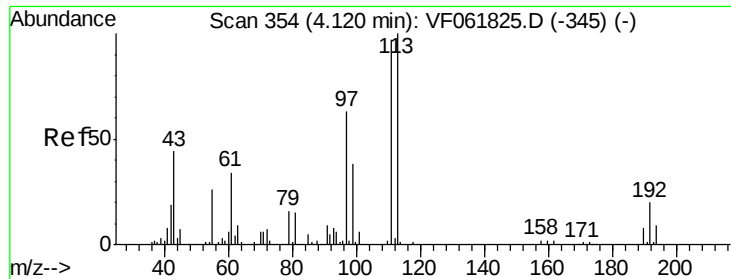
Delta R.T. -0.03 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tgt Ion:	75	Resp:	202251
Ion Ratio	Lower	Upper	
75	100		
110	36.0	20.5	61.6
77	33.3	27.0	40.4





#37

Ethyl Acetate

Concen: 42.102 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

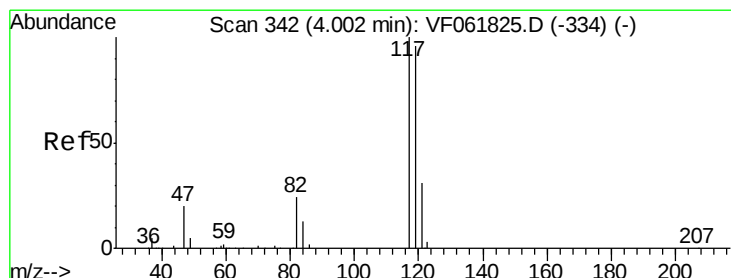
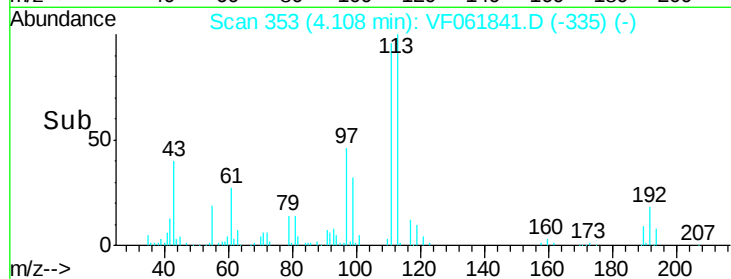
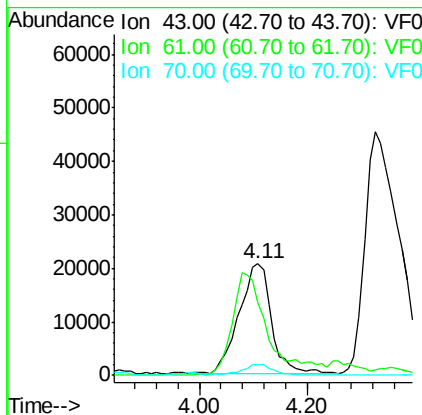
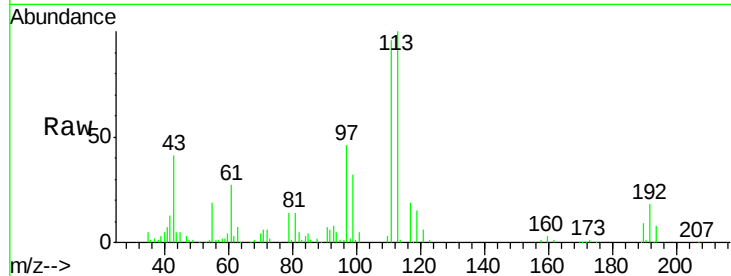
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	83427
Ion	Ratio	Lower	Upper
43	100		
61	65.6	45.7	68.5
70	9.9	8.5	12.7

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 52.550 ug/l

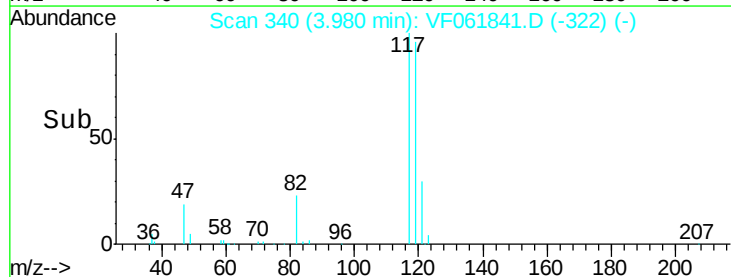
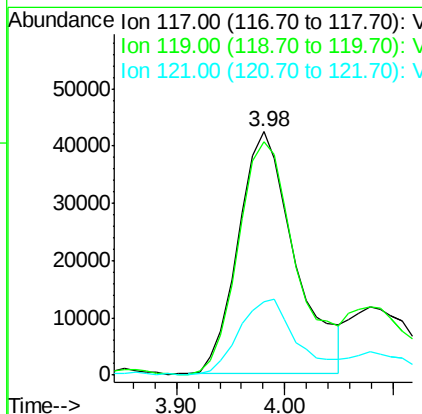
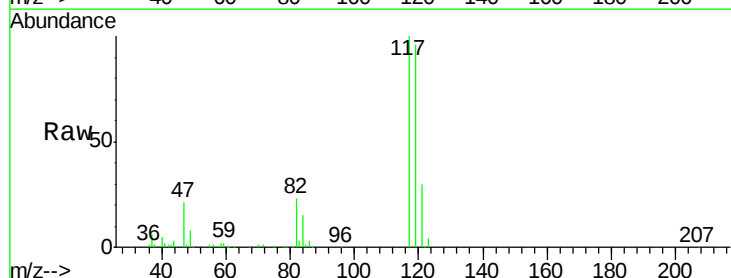
RT: 3.98 min Scan# 340

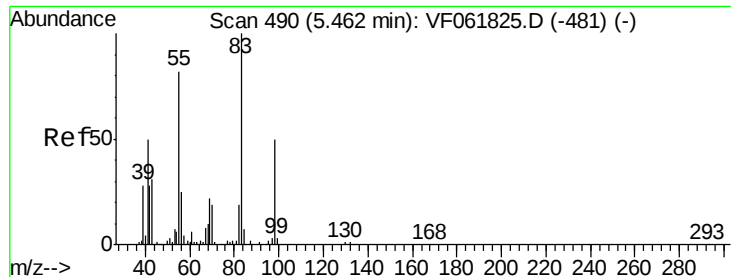
Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tgt Ion:	117	Resp:	154807
Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.6	113.4
121	30.3	25.2	37.8





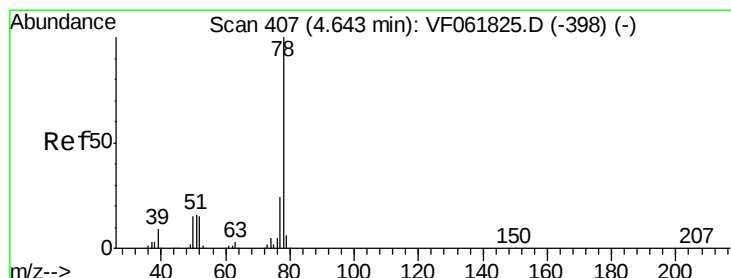
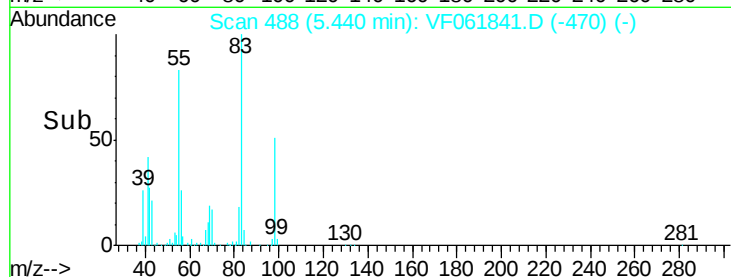
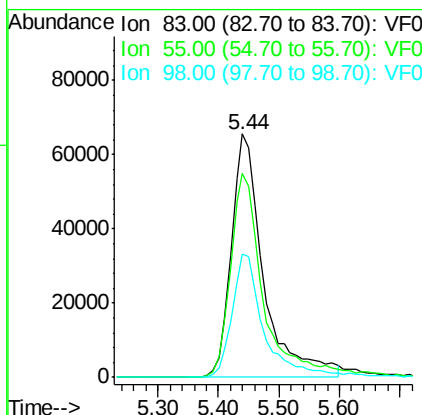
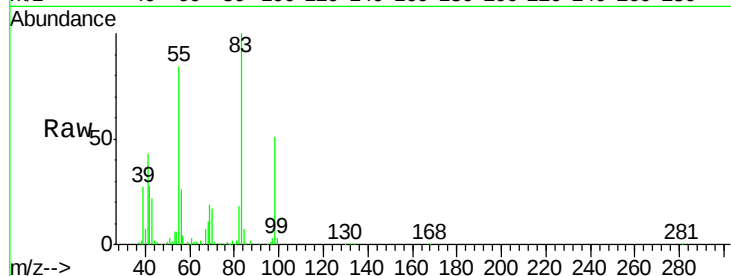
#39
Methvlcvclohexane
Concen: 48.220 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	83.5	66.6	99.8
98	50.7	40.4	60.6

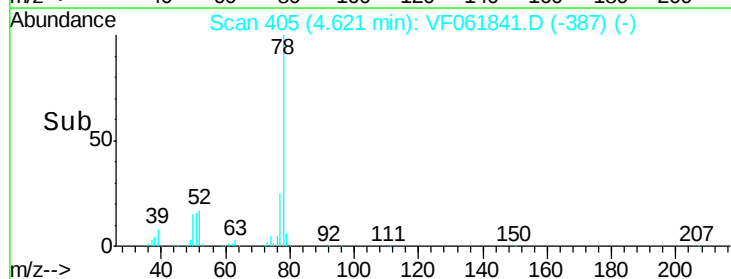
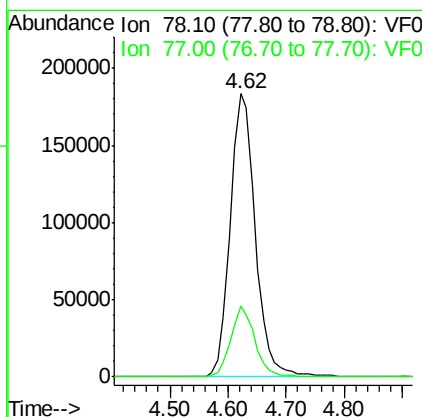
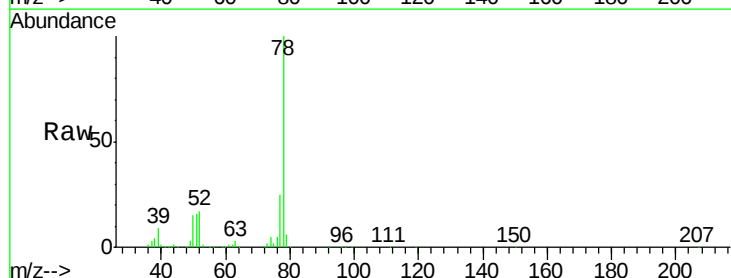
Manual Integrations
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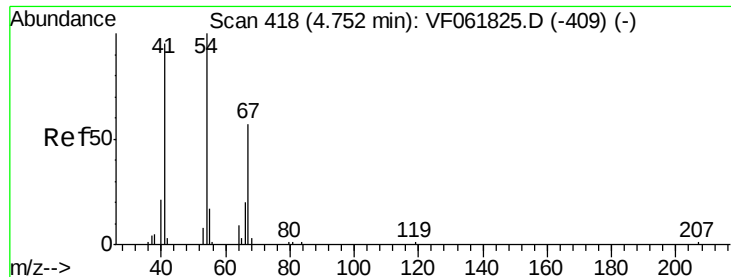
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#40
Benzene
Concen: 49.286 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.0	28.6





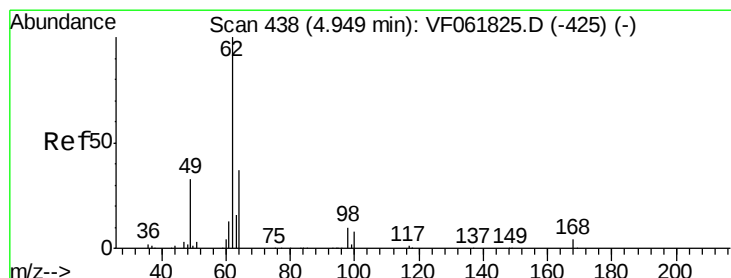
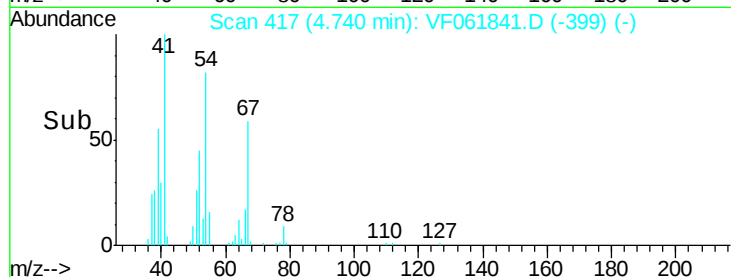
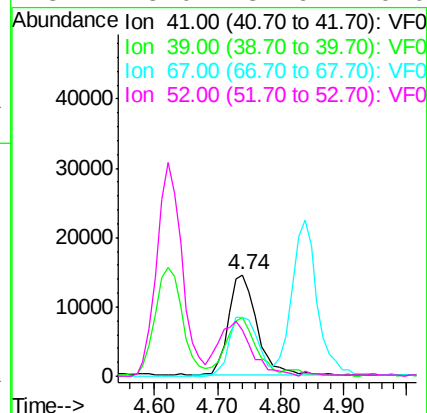
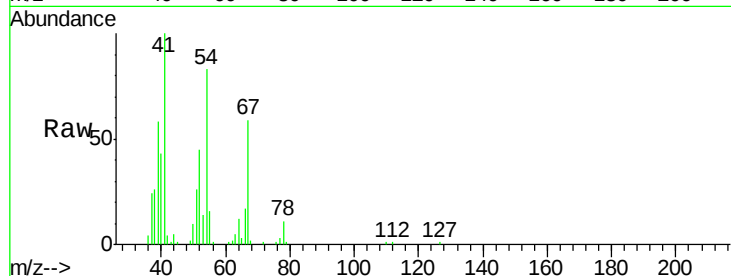
#41
Methacrylonitrile
Concen: 45.045 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	58.1	45.3	67.9	
67	58.7	49.3	73.9	
52	45.0	32.6	49.0	

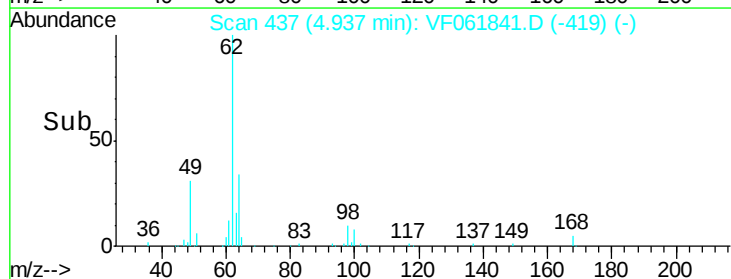
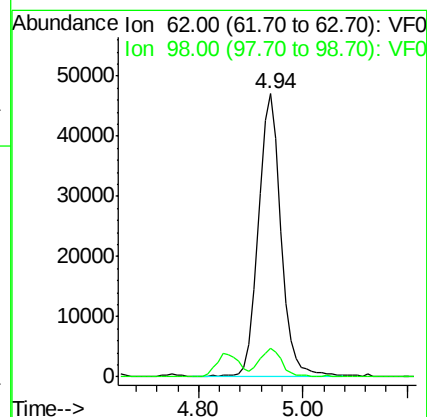
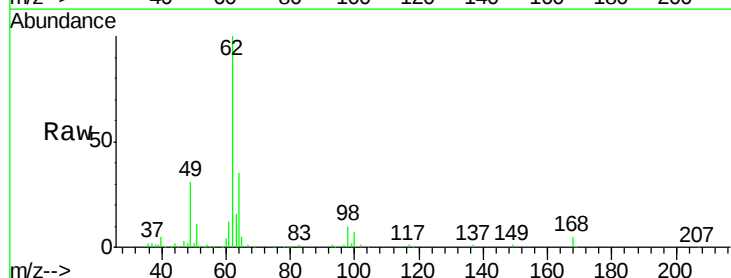
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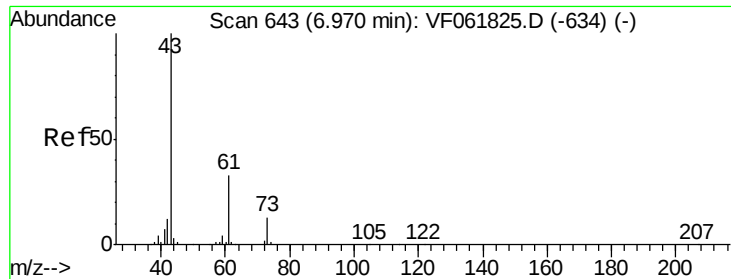
MMDadoda
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#42
1,2-Dichloroethane
Concen: 52.211 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.2	0.0	26.0	





#43

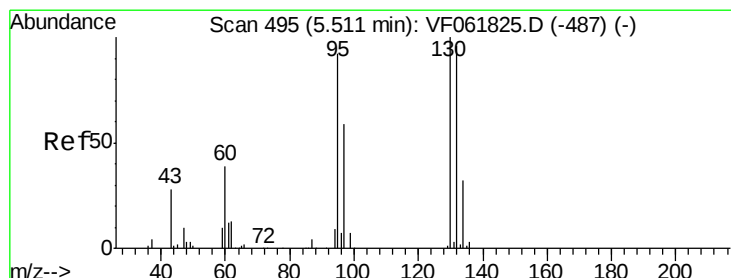
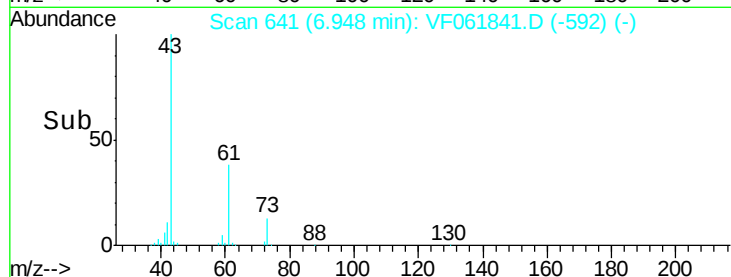
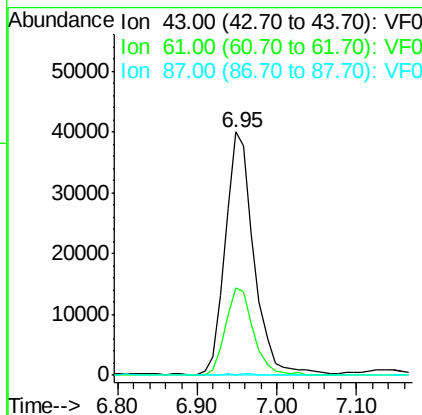
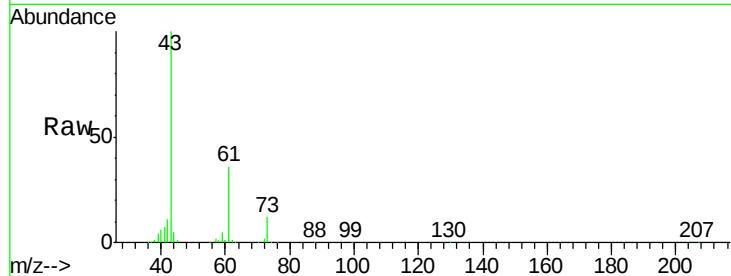
Isopropyl Acetate
 Concen: 43.195 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.02 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.9	25.8	38.6
87	0.0	0.4	0.6

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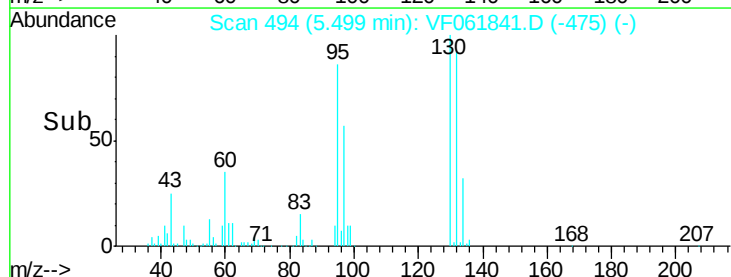
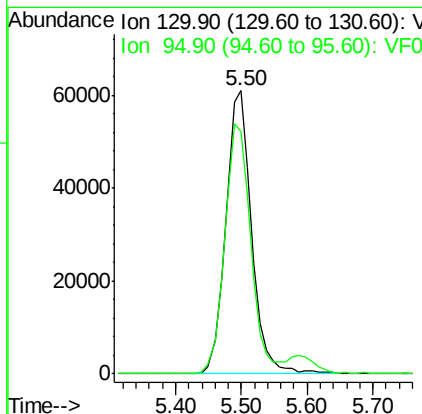
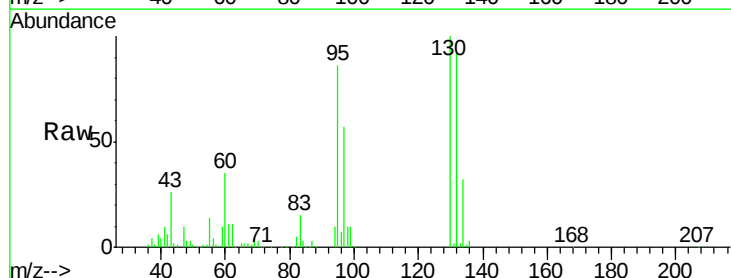
MMDadoda
 3/5/2019 10:48:42 AM

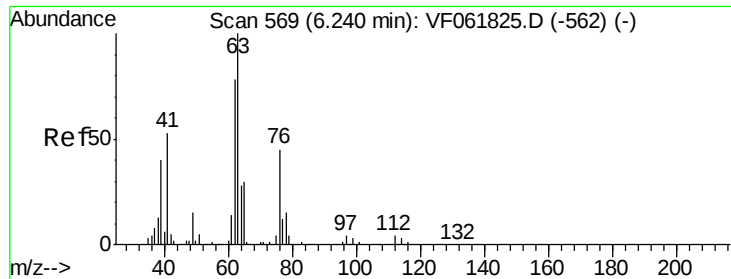


#44

Trichloroethene
 Concen: 46.318 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
130	100		
95	85.7	0.0	179.4





#45

1,2-Dichloropropane

Concen: 46.260 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 124778

Ion Ratio Lower Upper

63 100

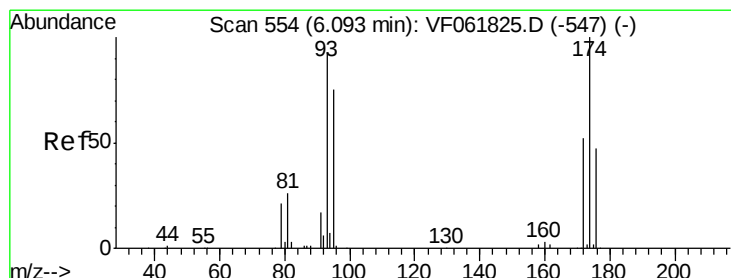
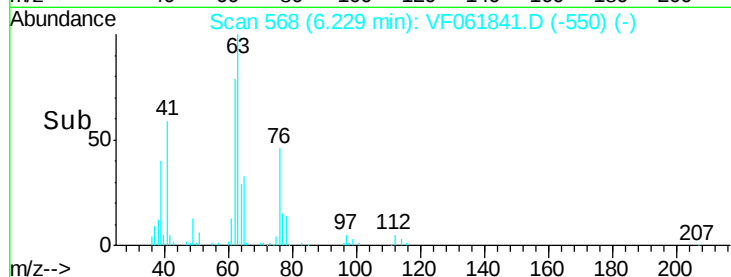
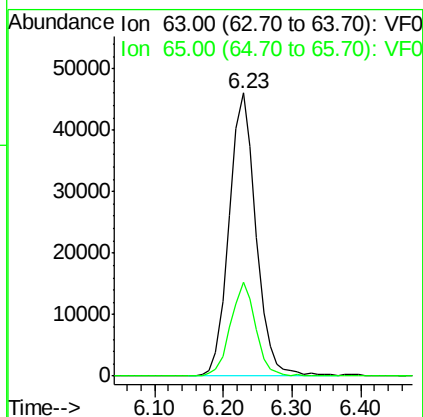
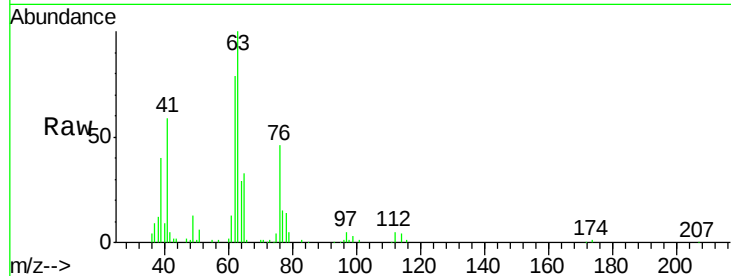
65 33.1 24.9 37.3

Manual Integrations

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#46

Dibromomethane

Concen: 47.852 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

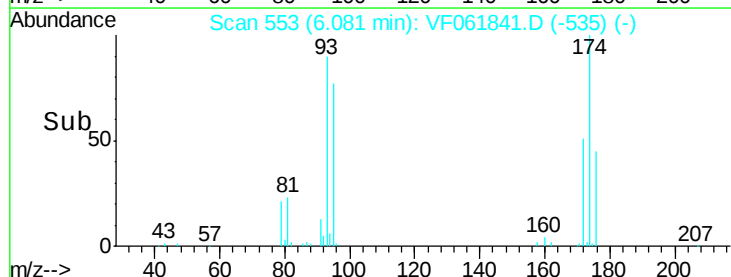
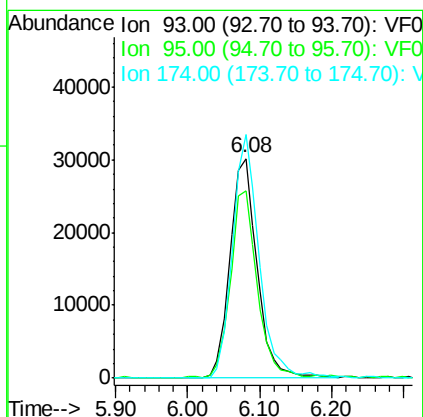
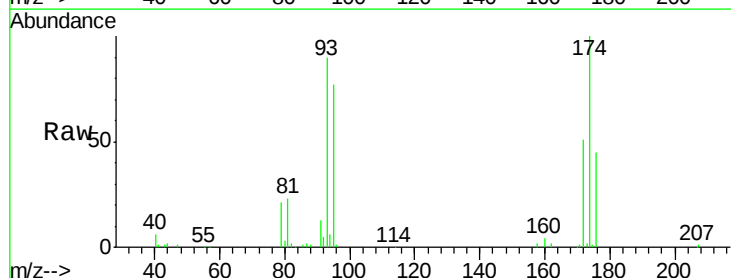
Tgt Ion: 93 Resp: 79471

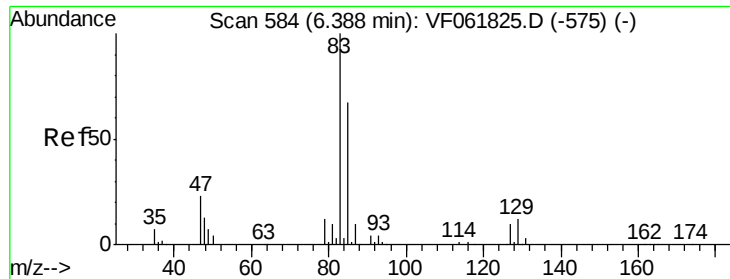
Ion Ratio Lower Upper

93 100

95 85.4 69.0 103.6

174 110.8 99.3 148.9





#47

Bromodichloromethane

Concen: 50.610 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

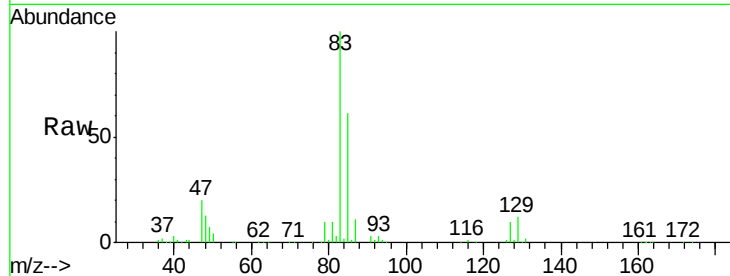
ClientSampleId :

VSTDCCC050EC

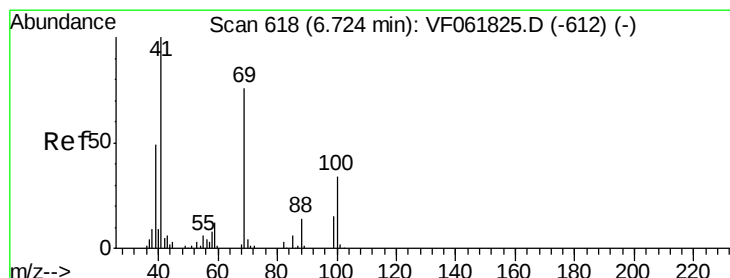
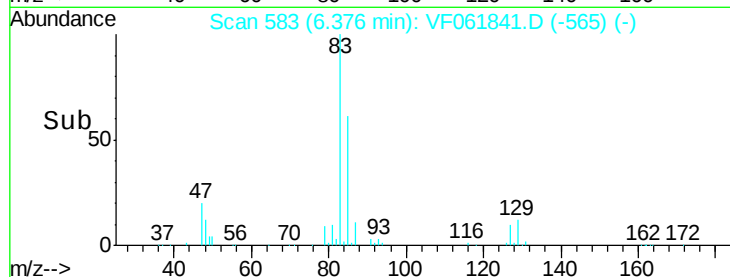
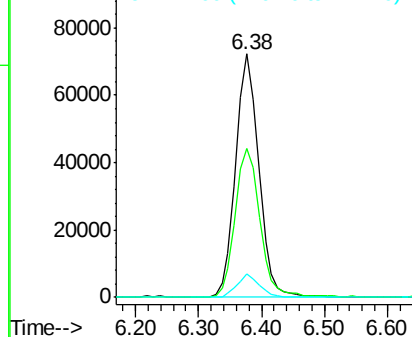
Tot Ion:	83	Resp:	184061
Ion Ratio	Lower	Upper	
83	100		
85	61.4	53.4	80.2
127	9.7	7.5	11.3

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



#48

Methyl methacrylate

Concen: 45.672 ug/l

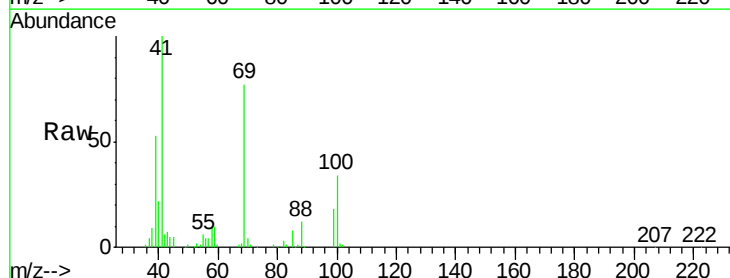
RT: 6.71 min Scan# 617

Delta R.T. -0.01 min

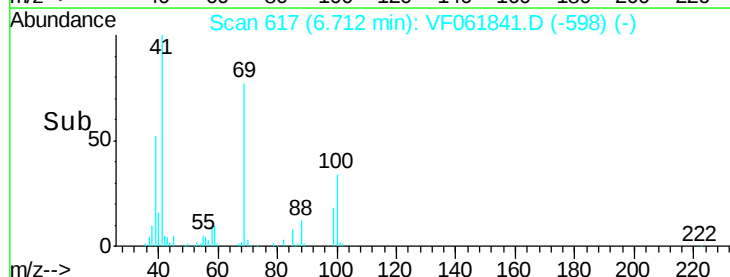
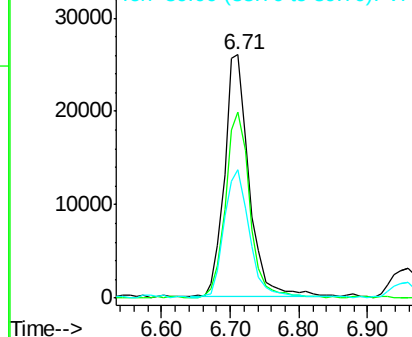
Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tgt Ion:	41	Resp:	64468
Ion Ratio	Lower	Upper	
41	100		
69	76.6	60.4	90.6
39	52.6	43.7	65.5



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





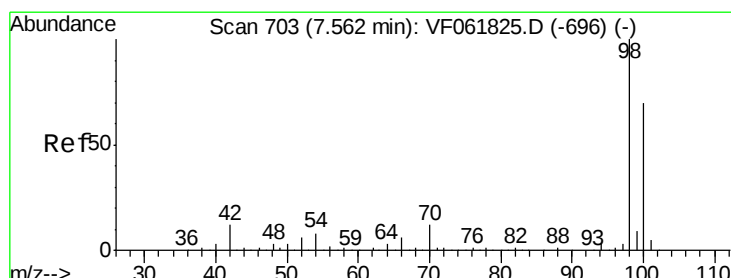
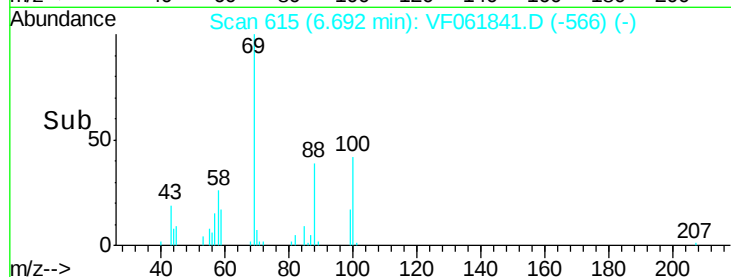
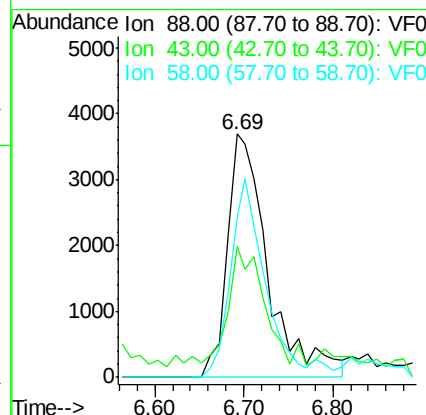
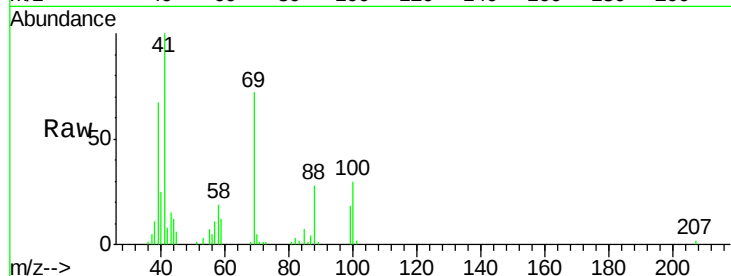
#49
1,4-Dioxane
Concen: 889.511 ug/l
RT: 6.69 min Scan# 615
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
88	100			
43	53.7	32.3	48.5#	
58	66.1	59.4	89.2	

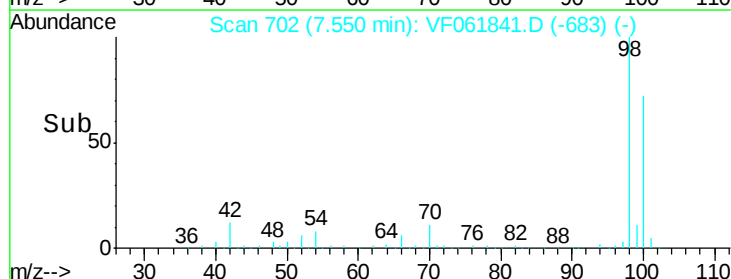
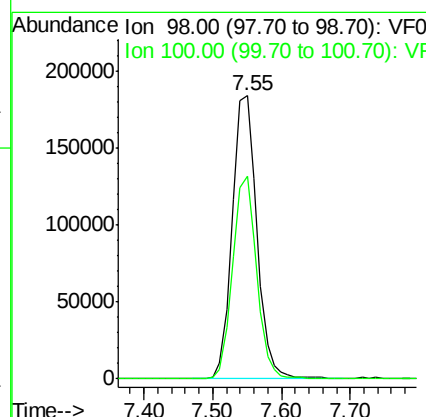
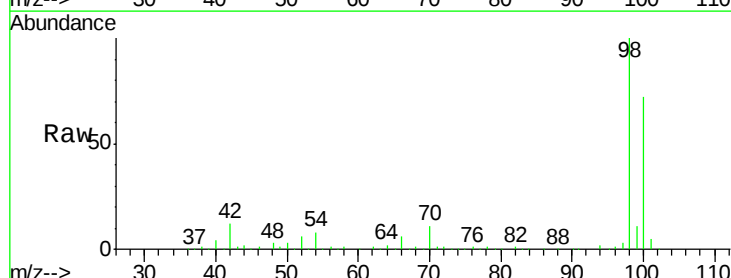
Manual Integrations
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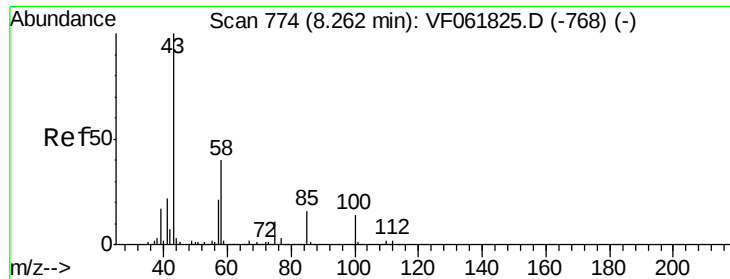
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#50
Toluene-d8
Concen: 49.820 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Resp	Lower	Upper
98	100			
100	71.6	55.4	83.2	





#51

4-Methyl-2-Pentanone

Concen: 211.319 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 354165

Ion Ratio Lower Upper

43 100

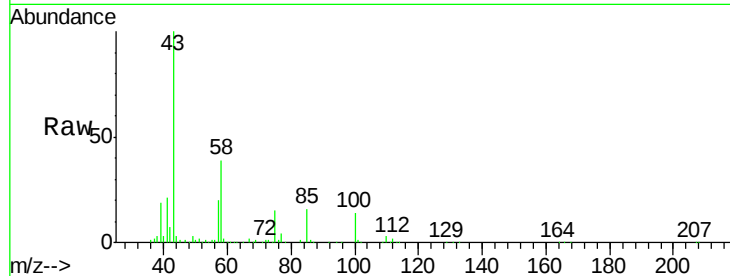
58 39.5 33.1 49.7

Manual Integrations

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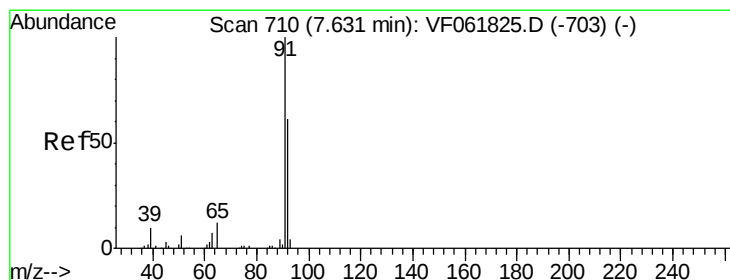
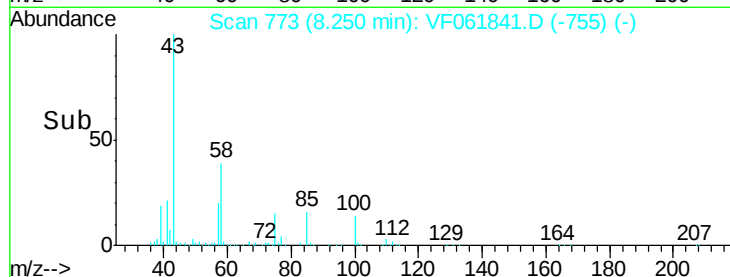
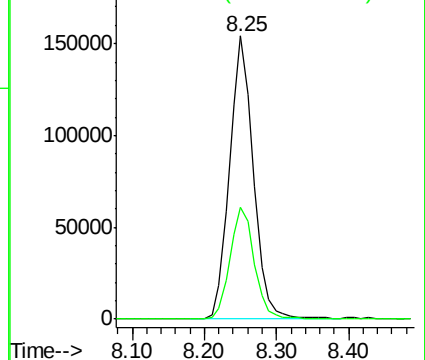
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 45.250 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061841.D

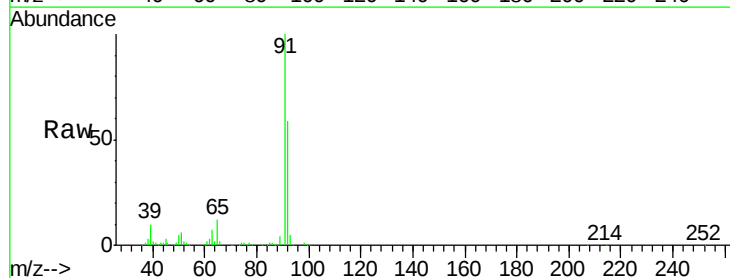
Acq: 5 Mar 2019 2:33

Tgt Ion: 92 Resp: 306241

Ion Ratio Lower Upper

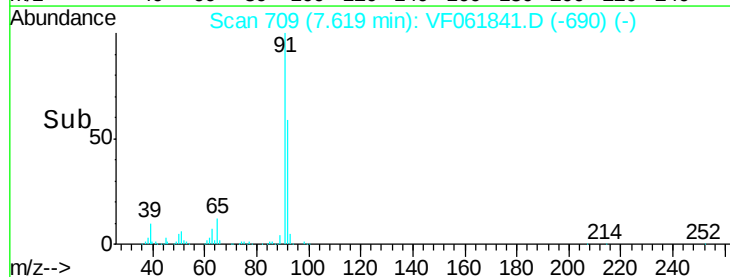
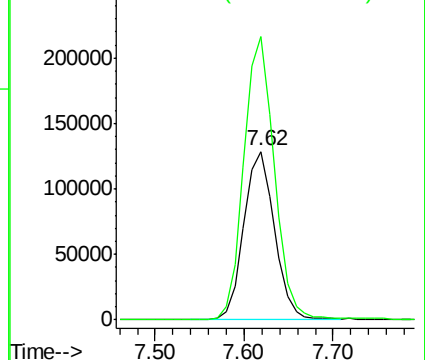
92 100

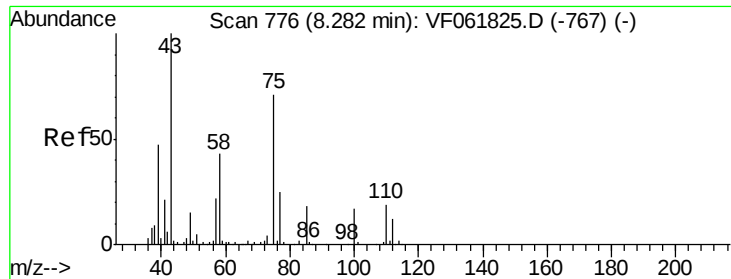
91 168.2 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





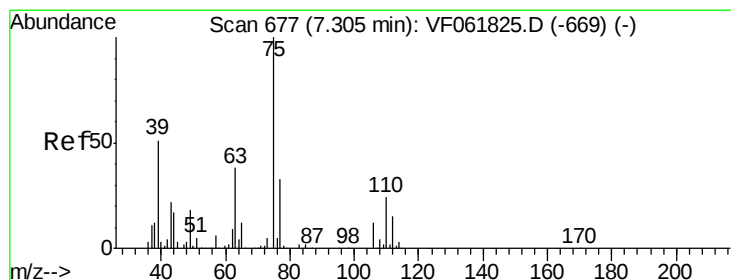
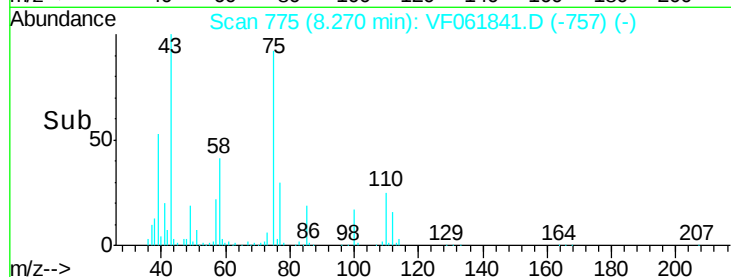
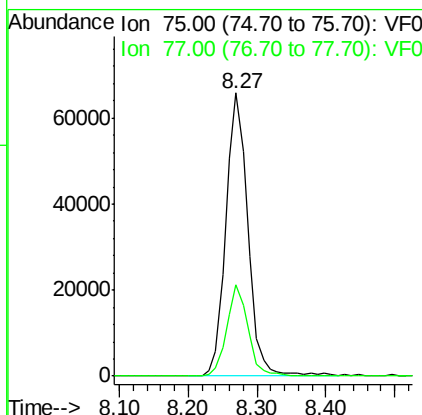
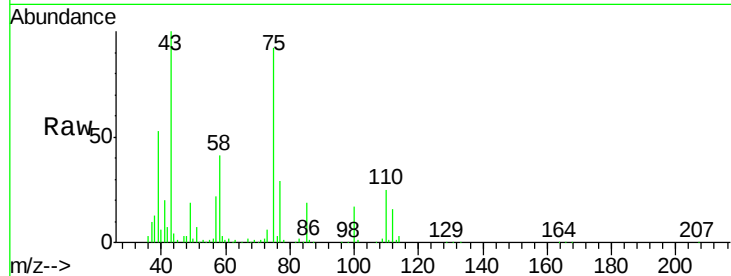
#53
t-1,3-Dichloropropene
Concen: 48.336 ug/l
RT: 8.27 min Scan# 775
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.2	26.2	39.2

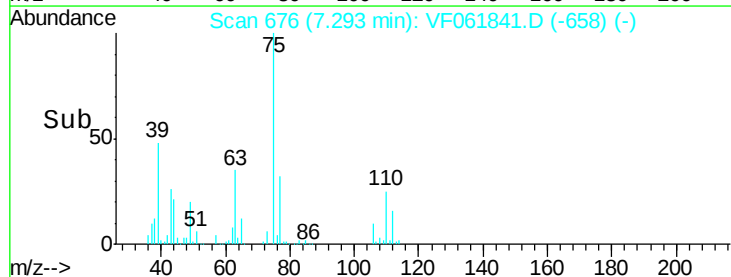
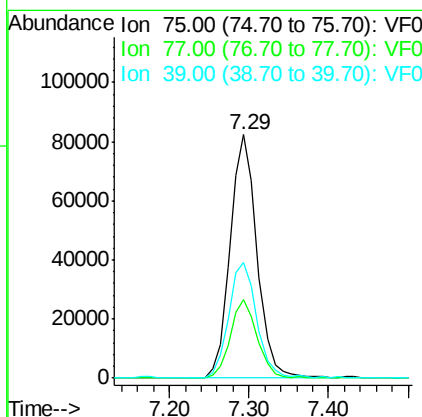
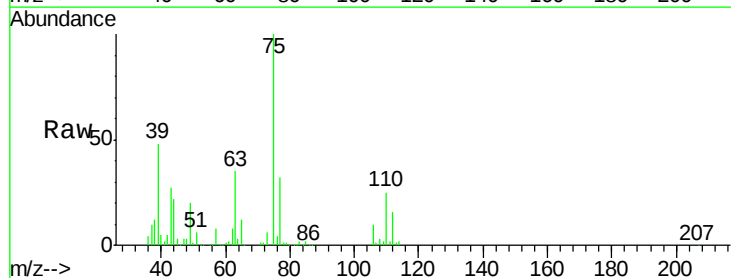
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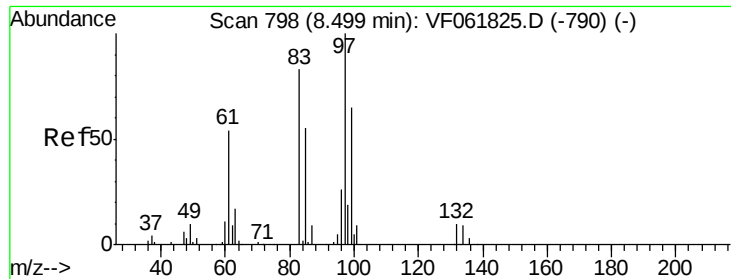
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 48.269 ug/l
RT: 7.29 min Scan# 676
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.4	39.6
39	47.6	36.0	54.0





#55

1,1,2-Trichloroethane

Concen: 47.317 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

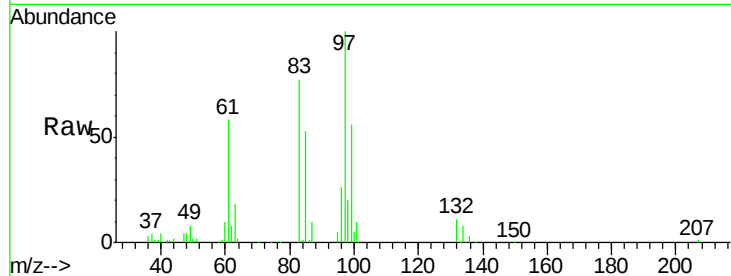
ClientSampleId :

VSTDCCC050EC

Tot Ion:	97	Resp:	94087
Ion	Ratio	Lower	Upper
97	100		
83	77.4	69.2	103.8
85	53.3	43.0	64.4
99	56.2	47.2	70.8

Manual Integrations
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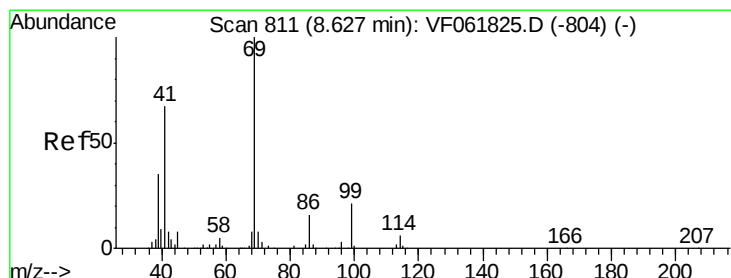
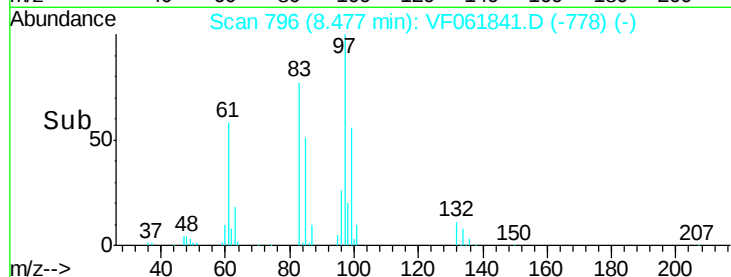
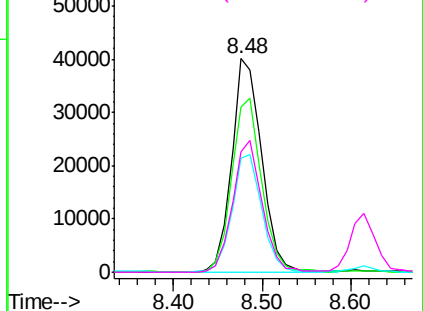


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 46.823 ug/l

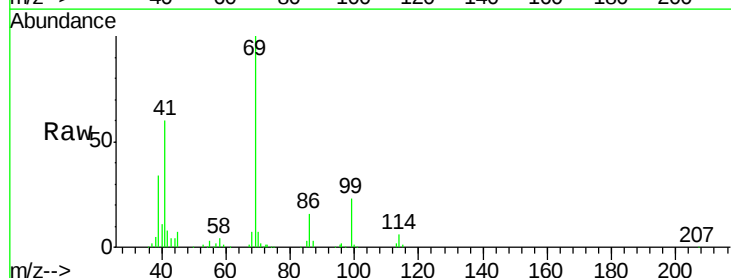
RT: 8.61 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

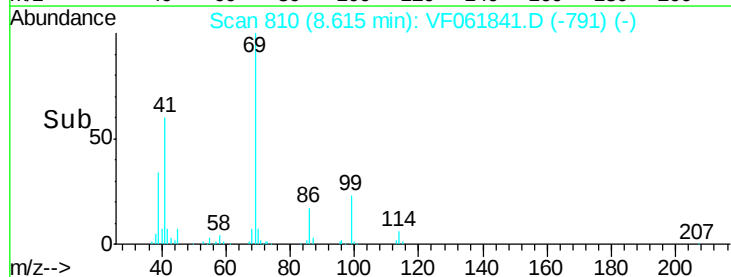
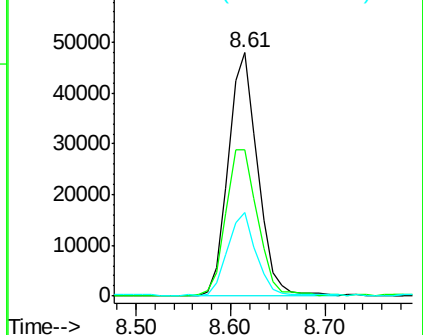
Tgt Ion:	69	Resp:	103658
Ion	Ratio	Lower	Upper
69	100		
41	60.0	52.9	79.3
39	34.2	24.5	36.7

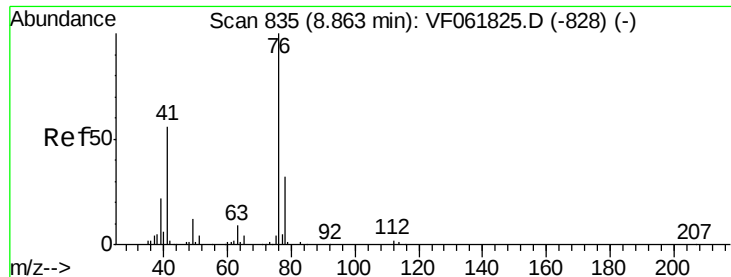


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 46.407 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 76 Resp: 154022

Ion Ratio Lower Upper

76 100

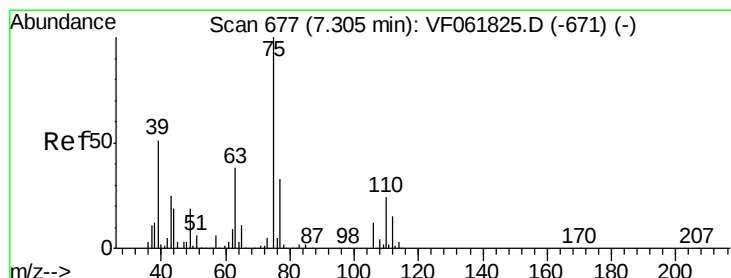
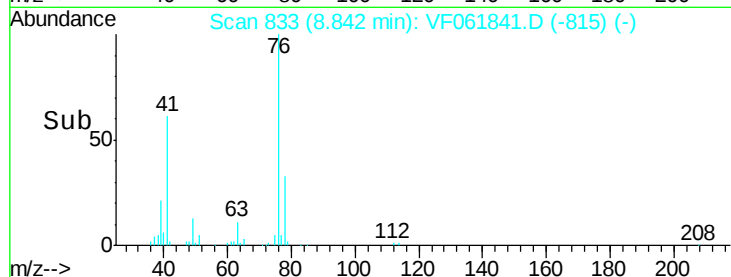
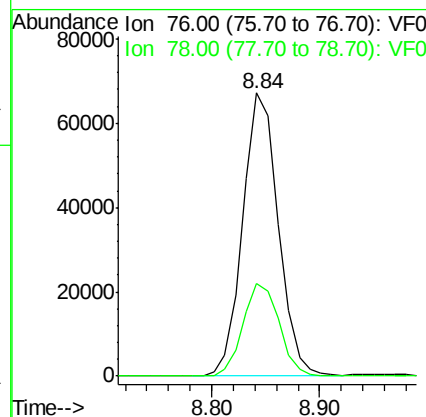
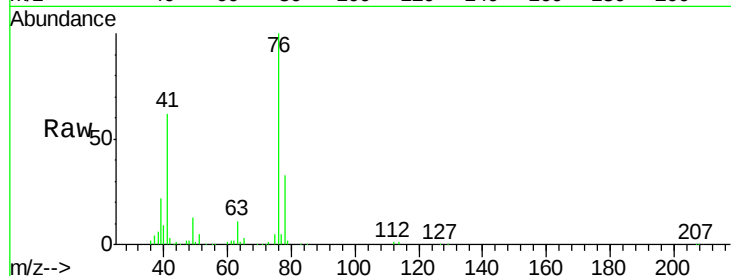
78 32.9 27.8 41.6

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#58

2-Chloroethyl Vinyl ether

Concen: 195.239 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061841.D

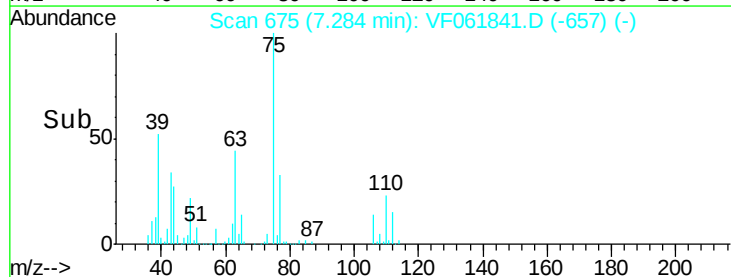
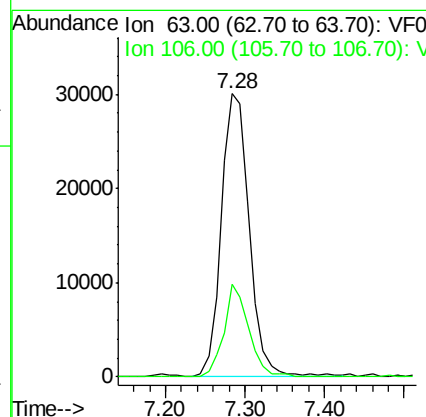
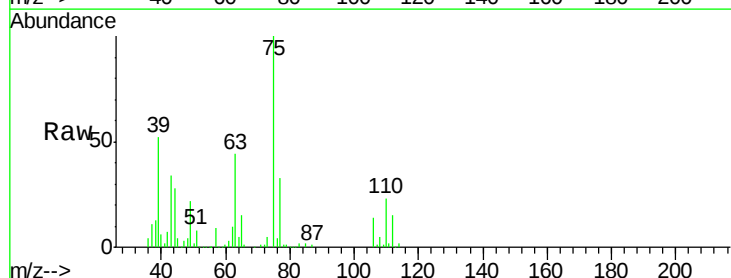
Acq: 5 Mar 2019 2:33

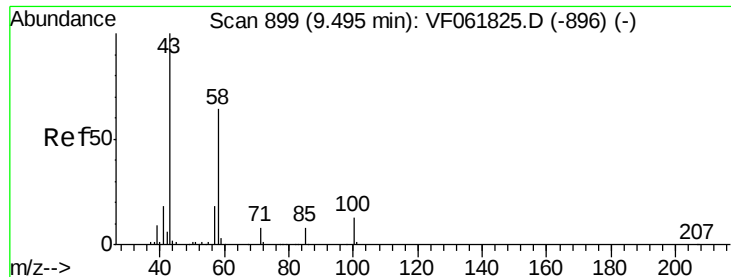
Tgt Ion: 63 Resp: 74575

Ion Ratio Lower Upper

63 100

106 32.7 24.6 36.8





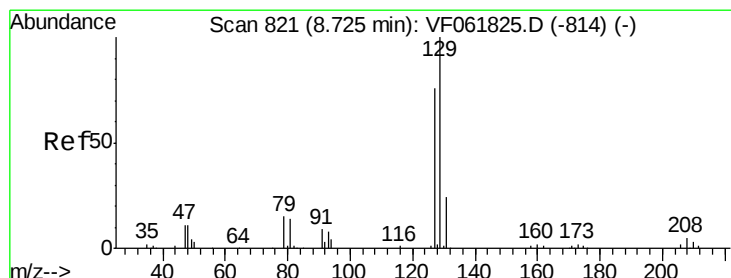
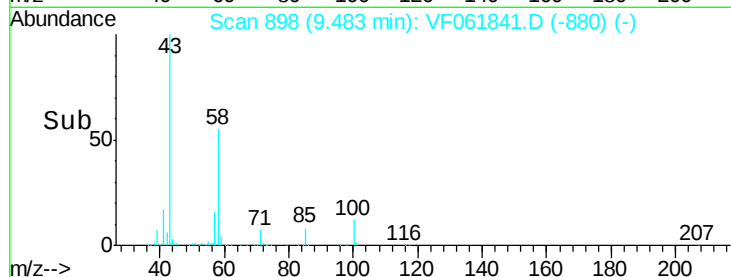
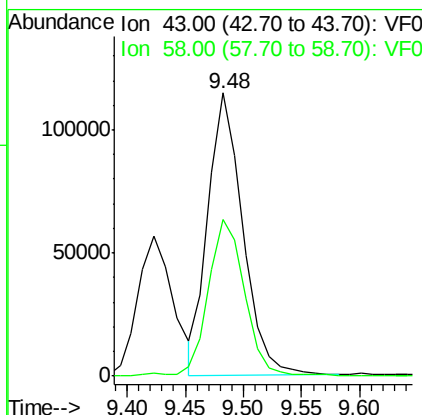
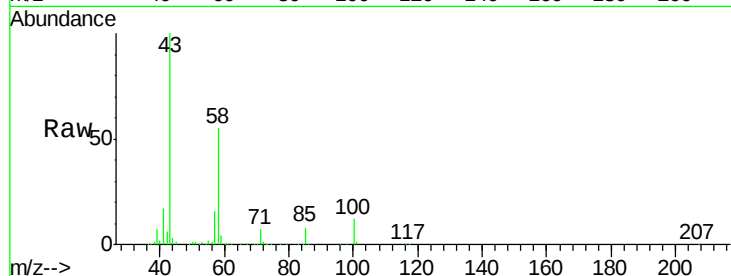
#59
2-Hexanone
Concen: 201.962 ug/l
RT: 9.48 min Scan# 898
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.2	28.5	85.5

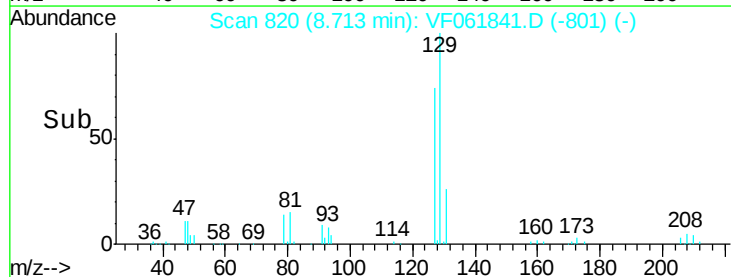
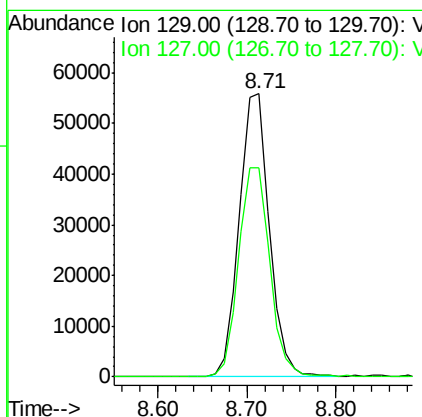
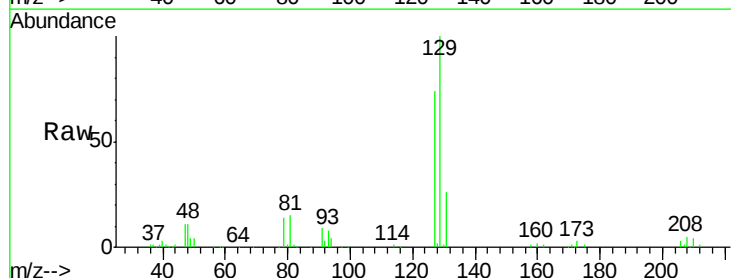
Manual Integrations
APPROVED

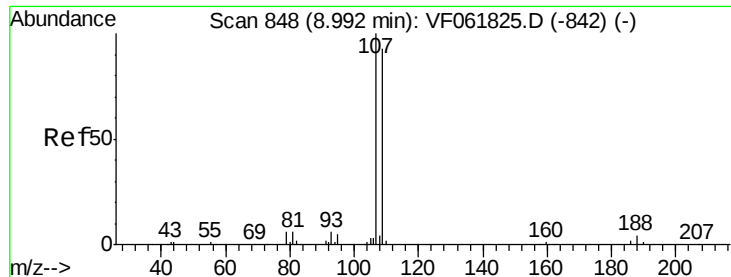
MMDadoda
3/5/2019 10:48:42 AM



#60
Dibromochloromethane
Concen: 47.710 ug/l
RT: 8.71 min Scan# 820
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
129	100		
127	73.9	37.8	113.4





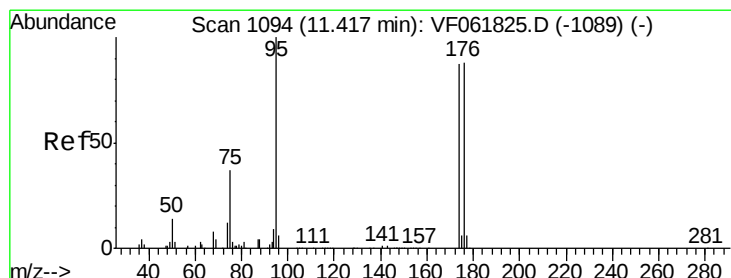
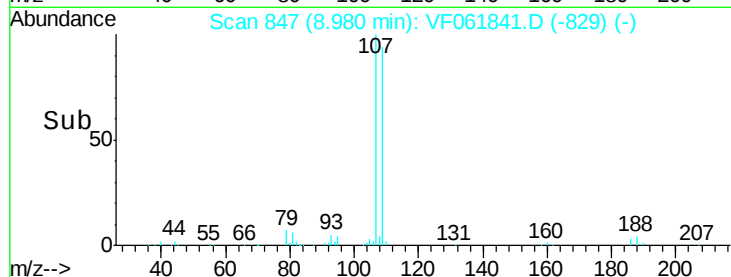
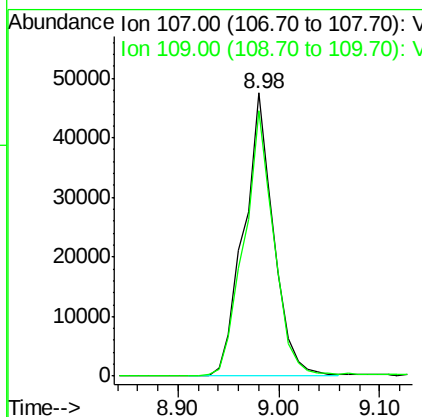
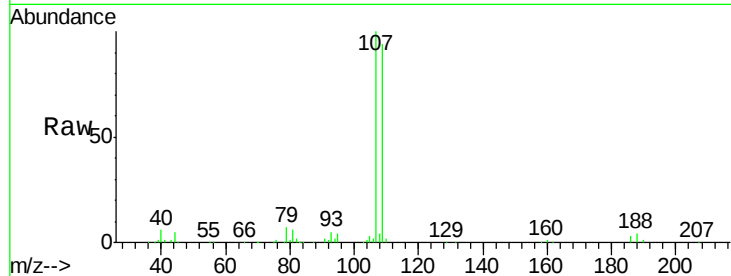
#61
1,2-Dibromoethane
Concen: 45.530 ug/l
RT: 8.98 min Scan# 847
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion: 107 Resp: 98196
Ion Ratio Lower Upper
107 100
109 93.9 77.4 116.0

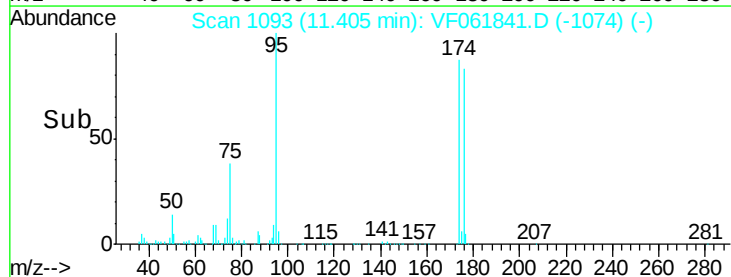
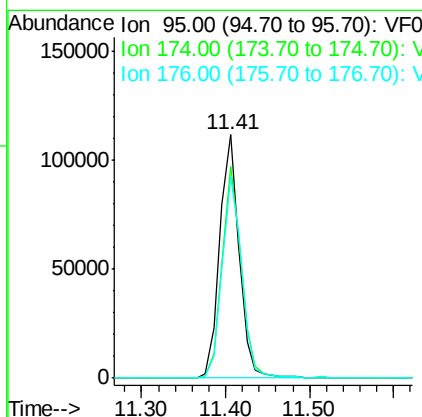
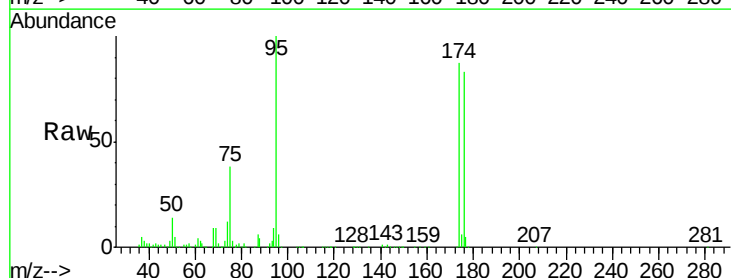
Manual Integrations
APPROVED

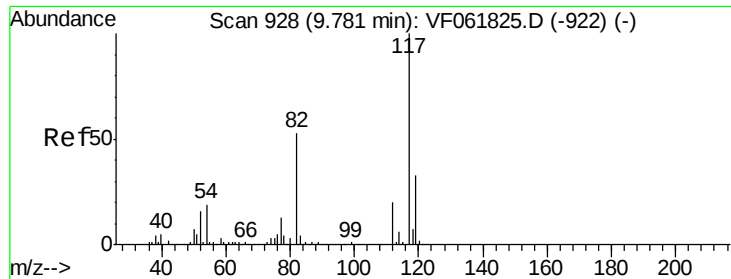
MMDadoda
3/5/2019 10:48:42 AM



#62
4-Bromofluorobenzene
Concen: 48.687 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion: 95 Resp: 181114
Ion Ratio Lower Upper
95 100
174 86.7 0.0 165.8
176 82.7 0.0 167.0





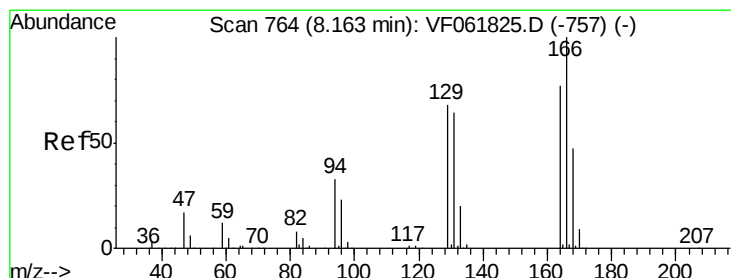
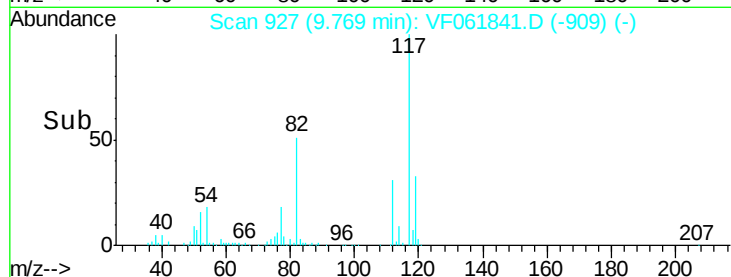
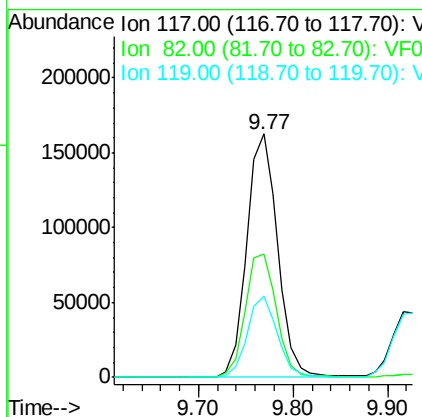
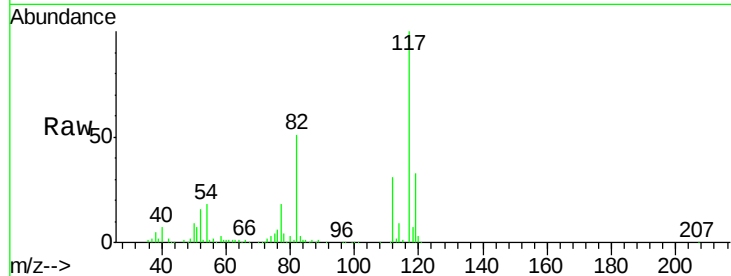
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
117	100	367174		
82	50.8		39.3	58.9
119	33.2		26.6	40.0

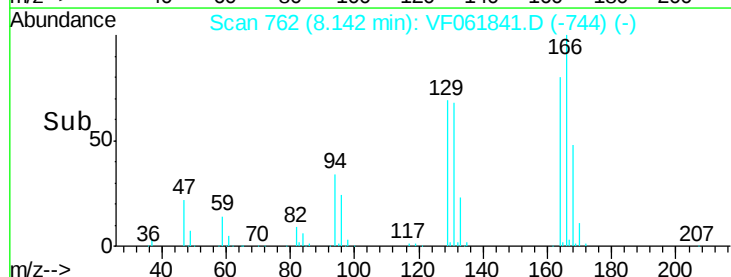
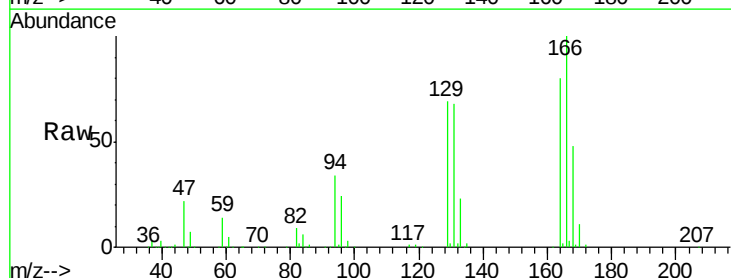
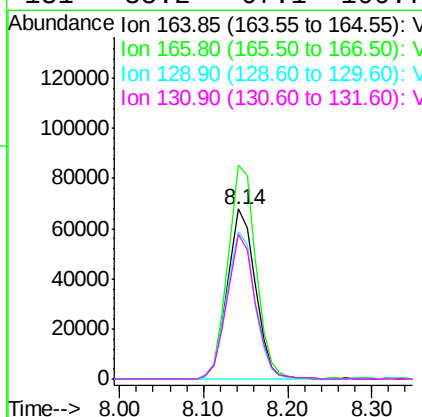
Manual Integrations
APPROVED

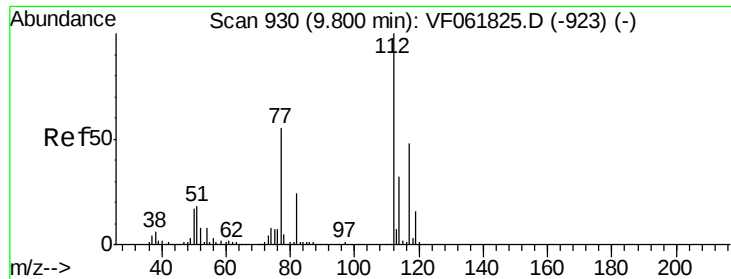
MMDadoda
3/5/2019 10:48:42 AM



#64
Tetrachloroethene
Concen: 52.448 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	157408		
166	125.8		103.9	155.9
129	86.9		71.3	106.9
131	85.2		67.1	100.7





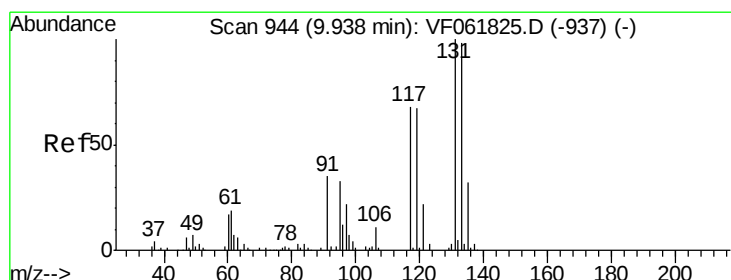
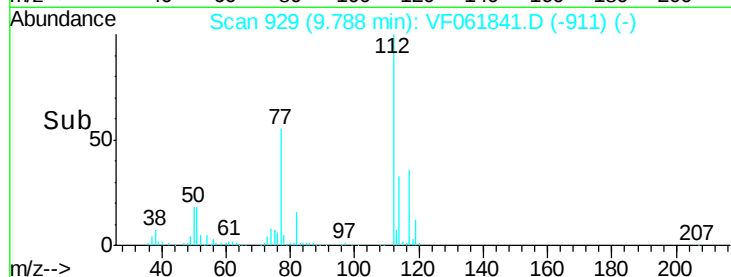
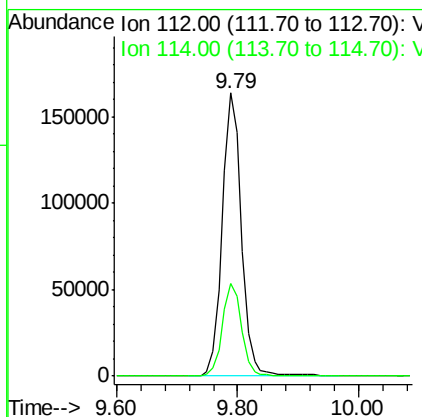
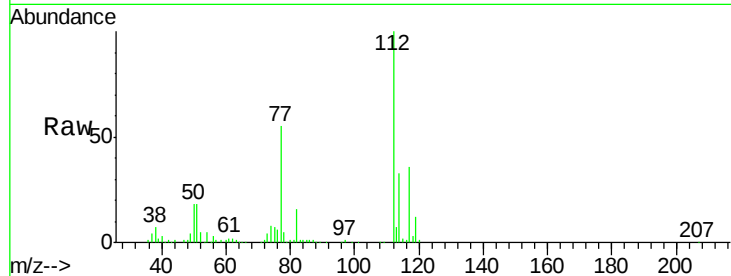
#65
Chlorobenzene
Concen: 48.444 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.2	39.2

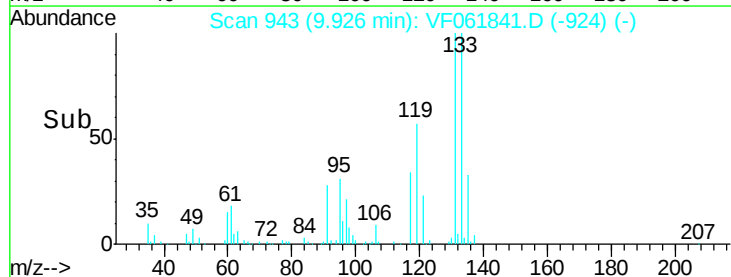
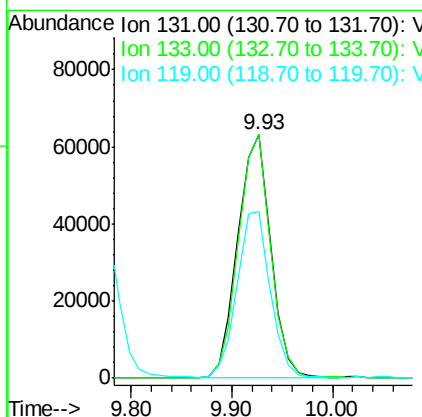
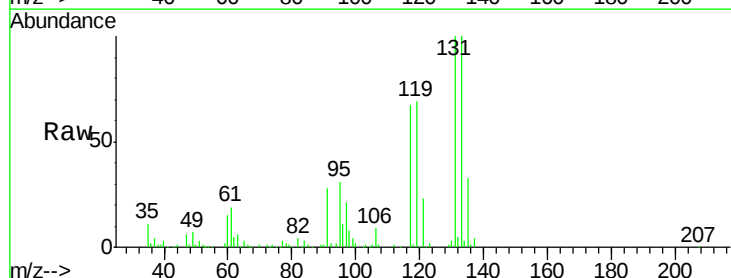
Manual Integrations
APPROVED

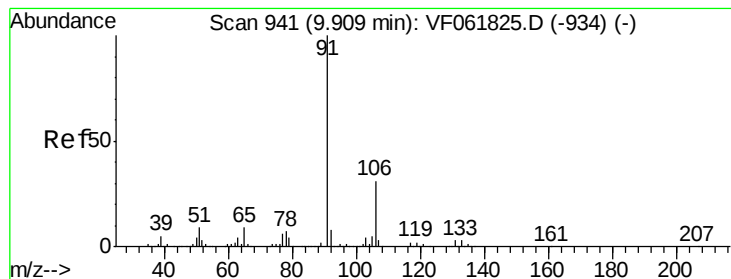
MMDadoda
3/5/2019 10:48:42 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 49.716 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
131	100		
133	100.0	48.9	146.6
119	68.7	34.8	104.3





#67

Ethyl Benzene

Concen: 49.776 ug/l

RT: 9.89 min Scan# 939

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tot Ion: 91 Resp: 616757

Ion Ratio Lower Upper

91 100

106 29.2 24.1 36.1

Instrument :

MSVOA_F

ClientSampleId :

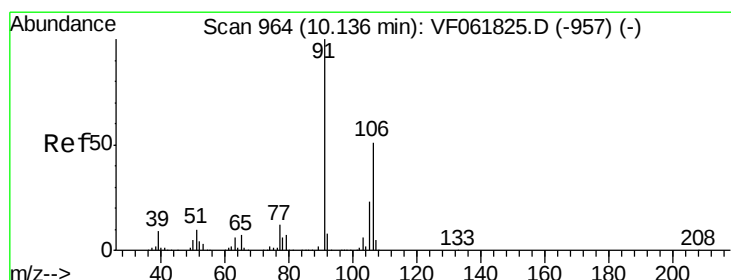
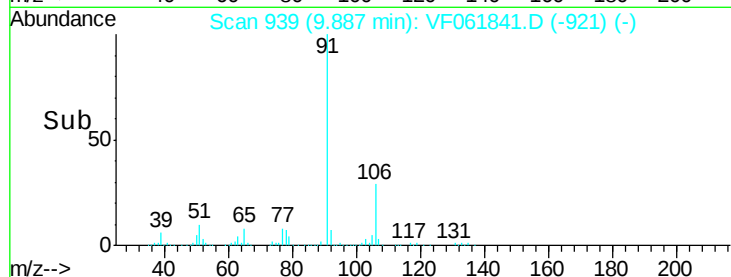
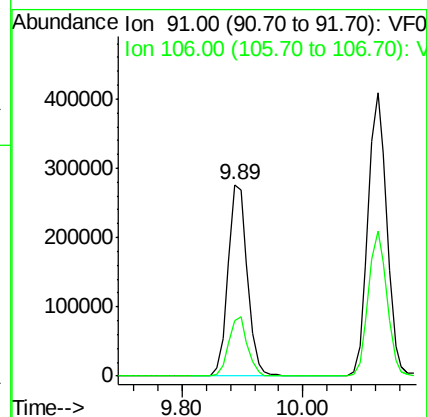
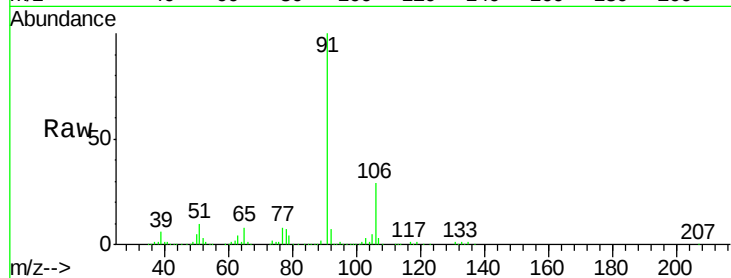
VSTDCCC050EC

Manual Integrations

APPROVED

MMDadoda

3/5/2019 10:48:42 AM



#68

m/p-Xylenes

Concen: 95.374 ug/l

RT: 10.12 min Scan# 963

Delta R.T. -0.02 min

Lab File: VF061841.D

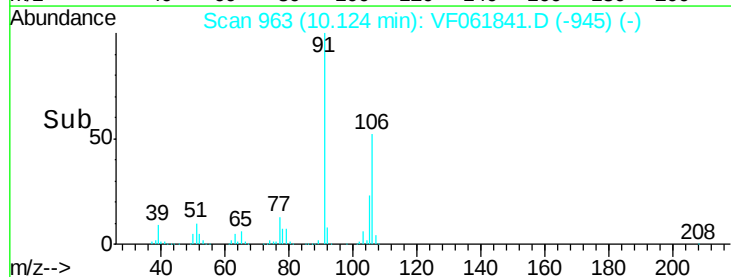
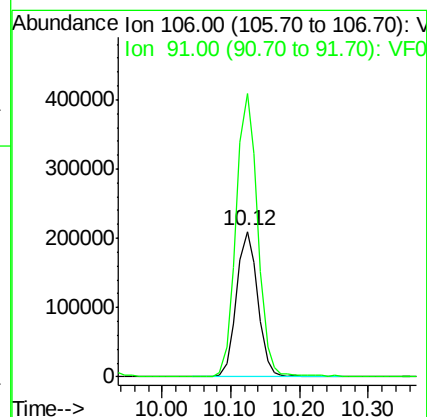
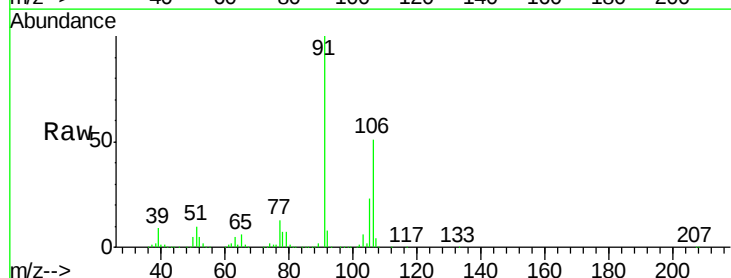
Acq: 5 Mar 2019 2:33

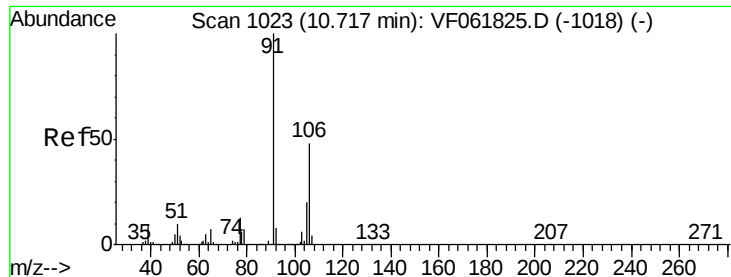
Tgt Ion: 106 Resp: 452266

Ion Ratio Lower Upper

106 100

91 194.4 153.0 229.6





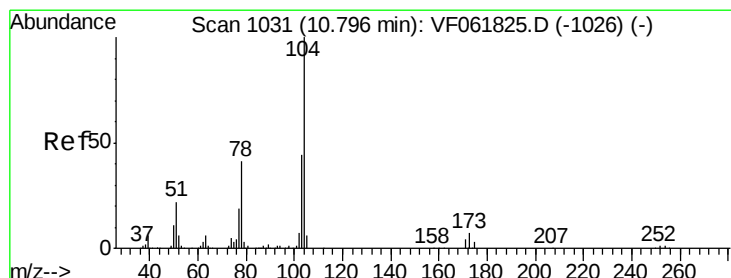
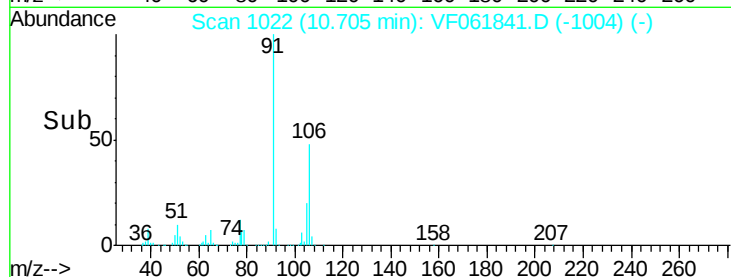
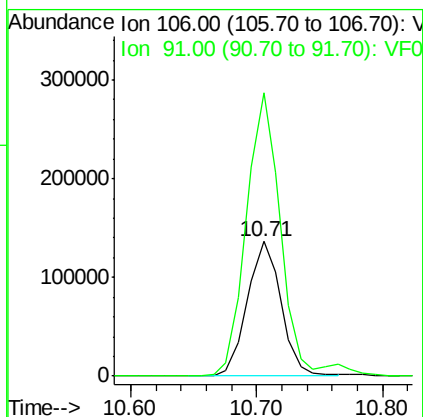
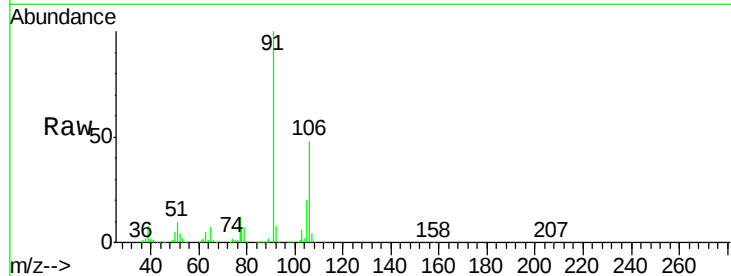
#69
o-Xylene
Concen: 50.419 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	100		255121		
91	209.9	100.1	300.1		

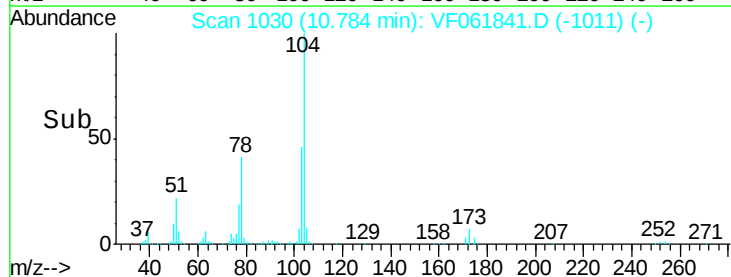
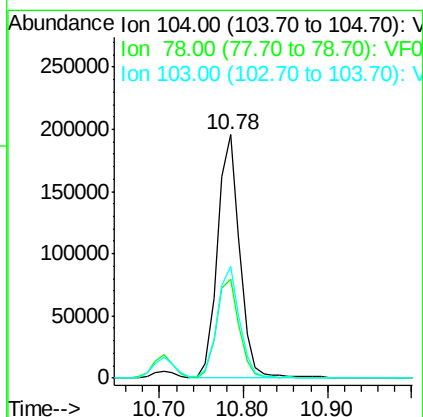
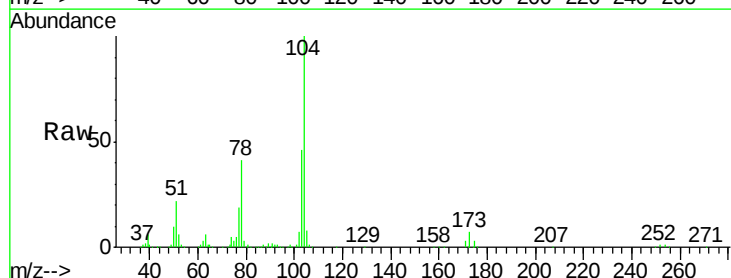
Manual Integrations
APPROVED

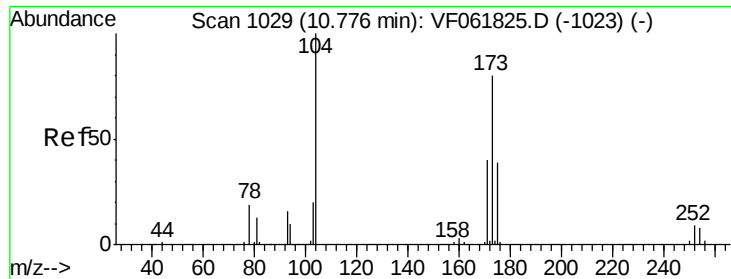
MMDadoda
3/5/2019 10:48:42 AM



#70
Styrene
Concen: 49.693 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	100		355718		
78	40.8	33.2	49.8		
103	46.0	37.2	55.8		





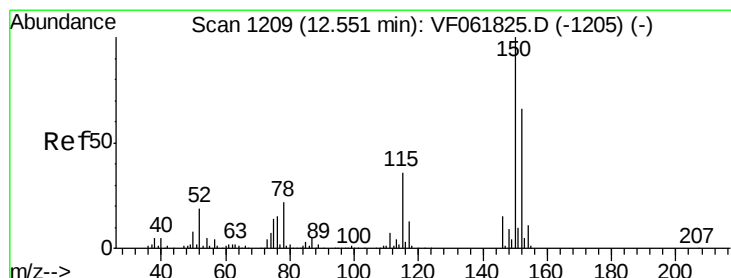
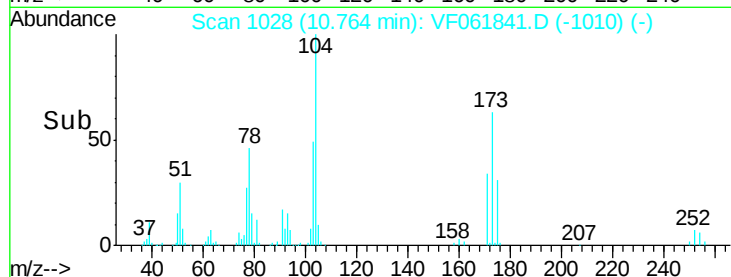
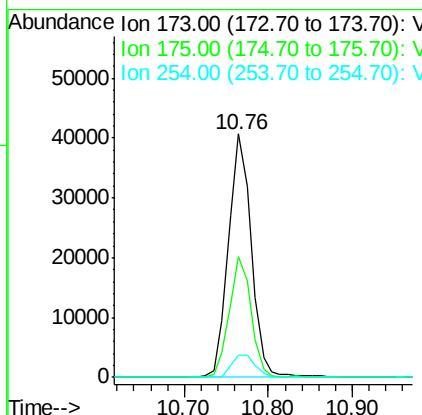
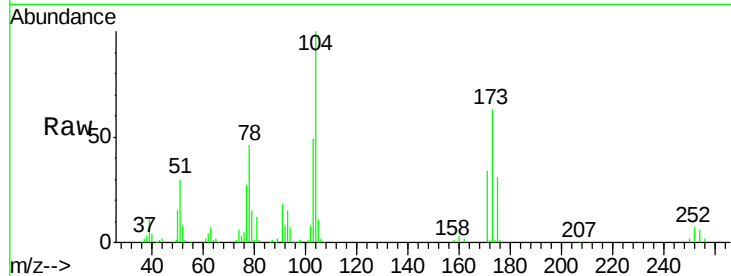
#71
Bromoform
Concen: 48.349 ug/l
RT: 10.76 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.0	72.0
254	9.2	8.2	12.2

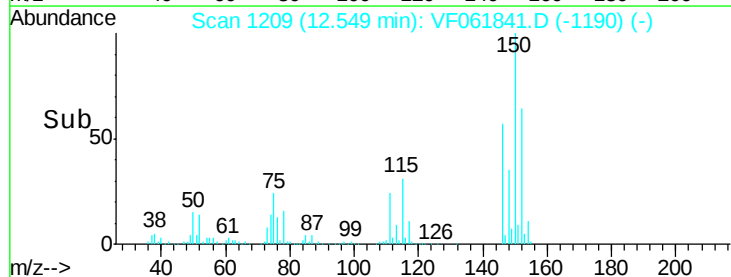
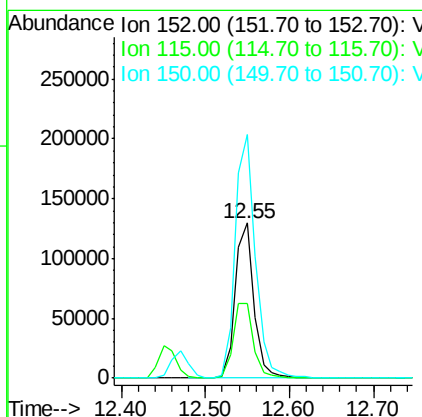
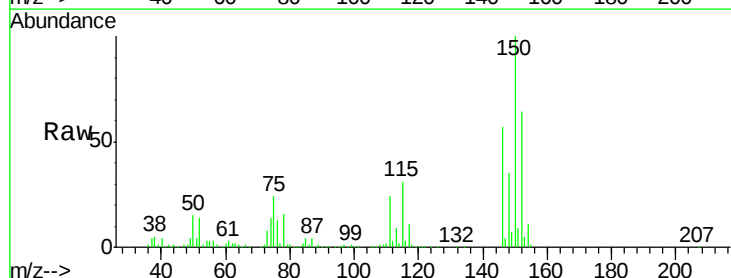
Manual Integrations
APPROVED

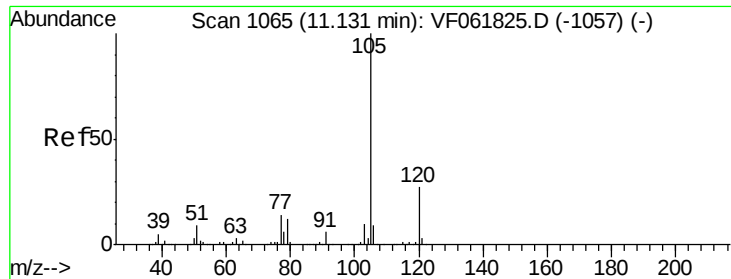
MMDadoda
3/5/2019 10:48:42 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
152	100		
115	48.5	24.3	72.8
150	157.0	0.0	312.0





#73

Isopropylbenzene

Concen: 50.156 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 718018

Ion Ratio Lower Upper

105 100

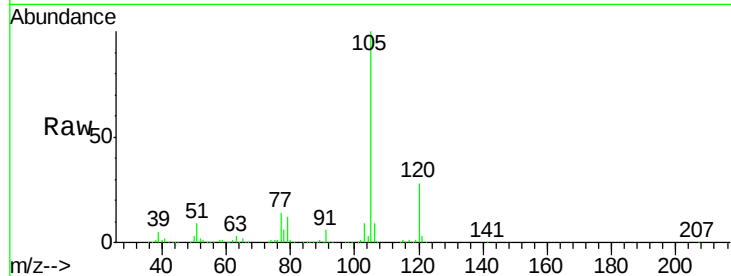
120 27.9 13.4 40.1

Manual Integrations

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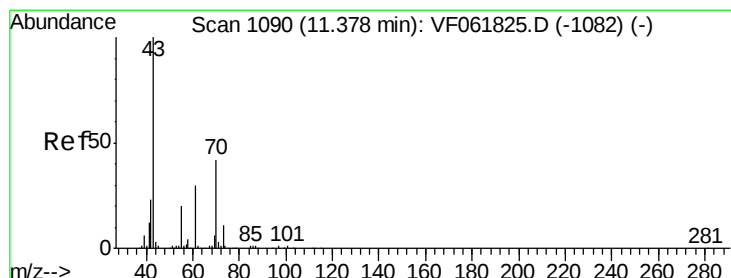
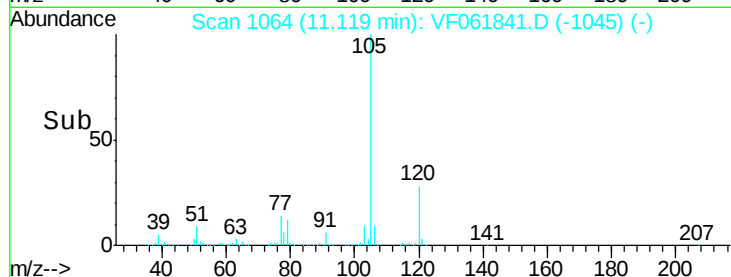
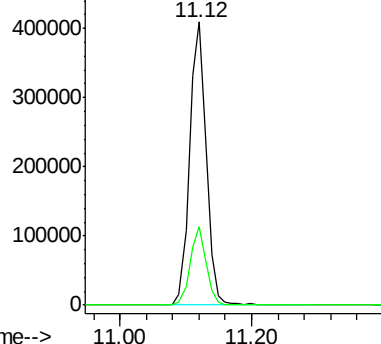
MMDadoda

3/5/2019 10:48:42 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 46.785 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tgt Ion: 43 Resp: 160760

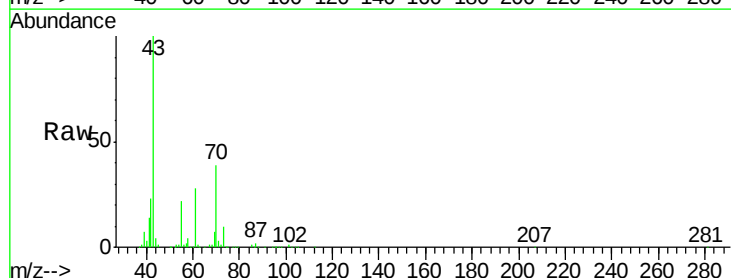
Ion Ratio Lower Upper

43 100

70 39.5 31.5 47.3

55 22.3 16.7 25.1

61 27.9 23.0 34.6

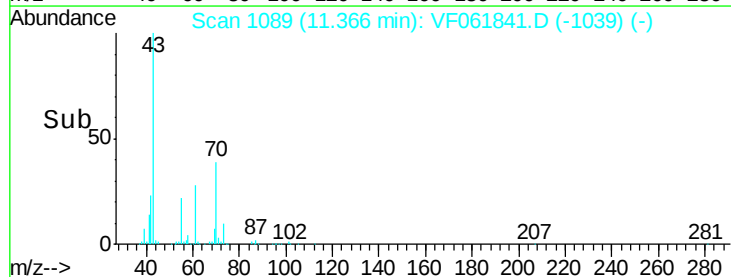
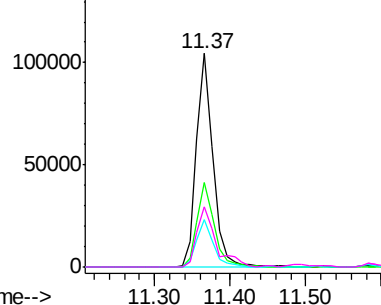


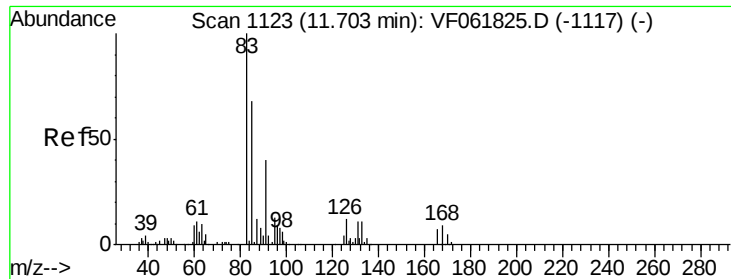
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 45.340 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

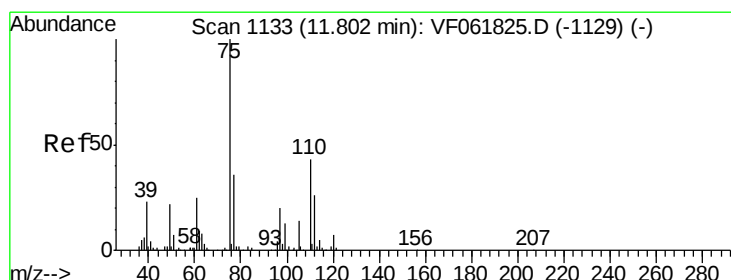
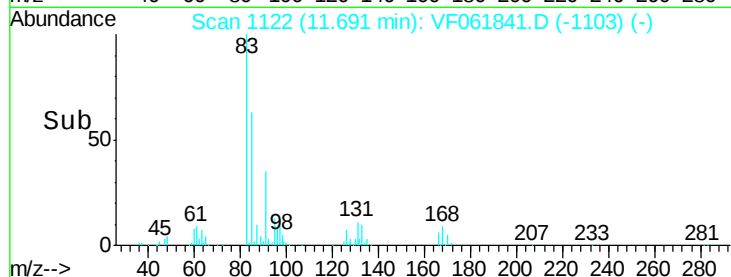
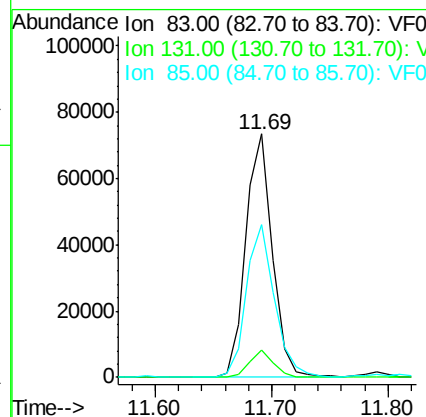
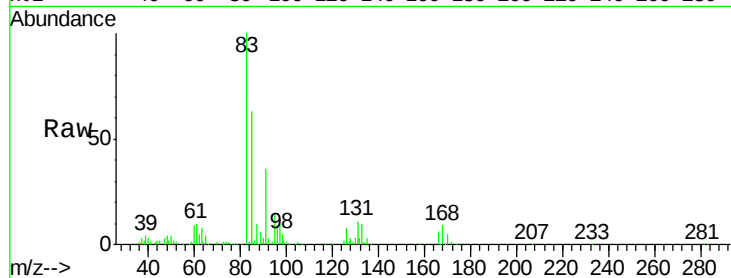
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	116283
Ion Ratio	Lower	Upper	
83	100		
131	11.0	4.4	13.2
85	62.8	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 46.587 ug/l

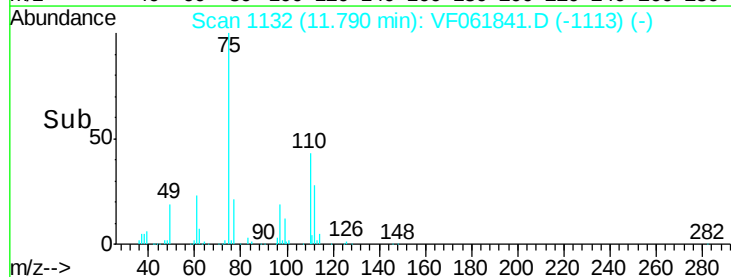
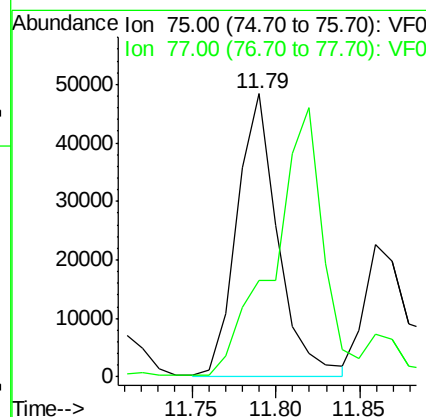
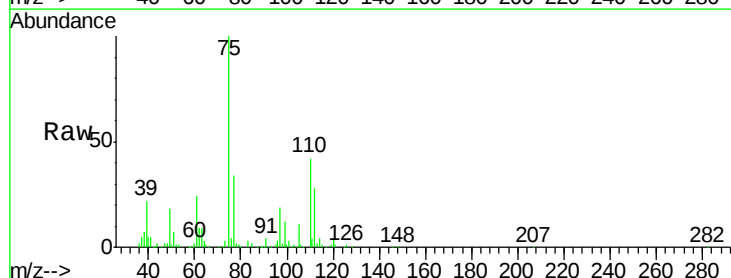
RT: 11.79 min Scan# 1132

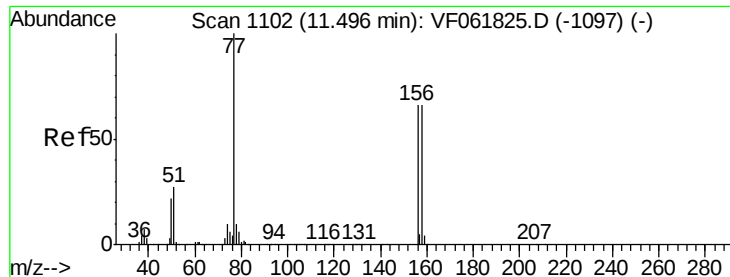
Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tgt Ion:	75	Resp:	81234
Ion Ratio	Lower	Upper	
75	100		
77	34.1	16.6	49.7





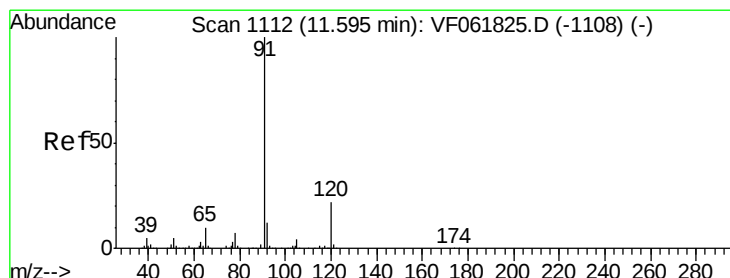
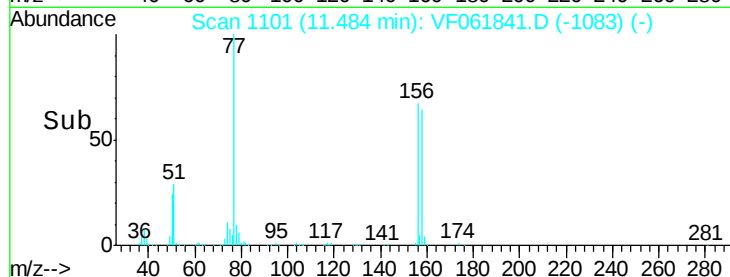
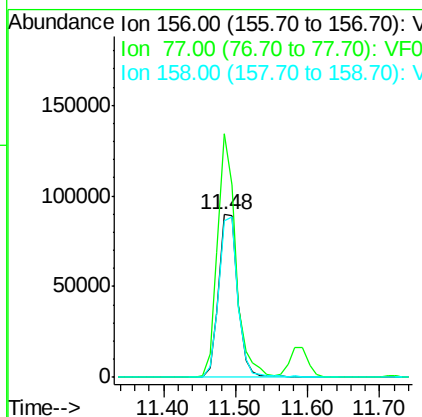
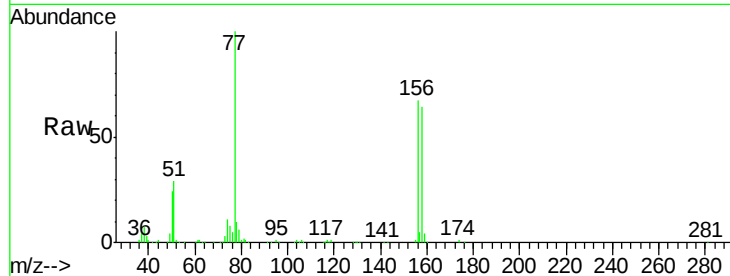
#77
Bromobenzene
Concen: 46.660 ug/l
RT: 11.48 min Scan# 1101
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
156	100		
77	149.8	64.3	192.7
158	96.0	50.9	152.7

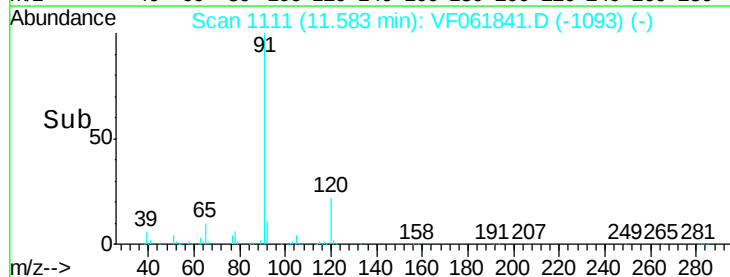
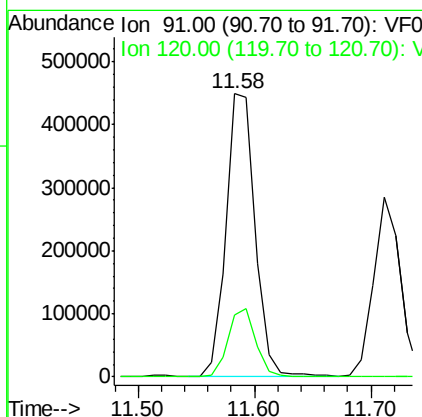
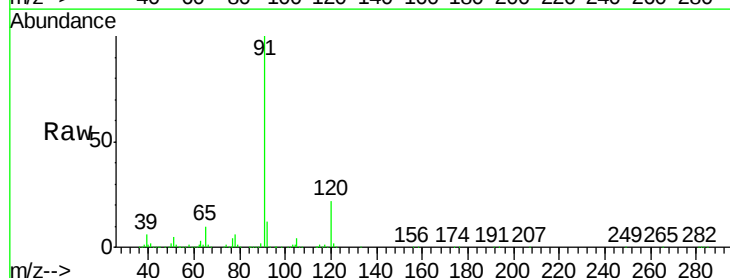
Manual Integrations
APPROVED

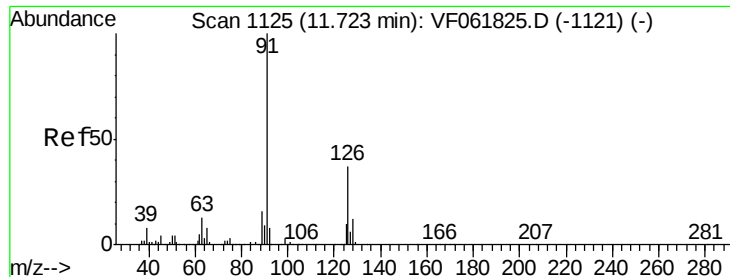
MMDadoda
3/5/2019 10:48:42 AM



#78
n-propylbenzene
Concen: 47.136 ug/l
RT: 11.58 min Scan# 1111
Delta R.T. -0.02 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.1	12.1	36.3





#79

2-Chlorotoluene

Concen: 48.992 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 450738

Ion Ratio Lower Upper

91 100

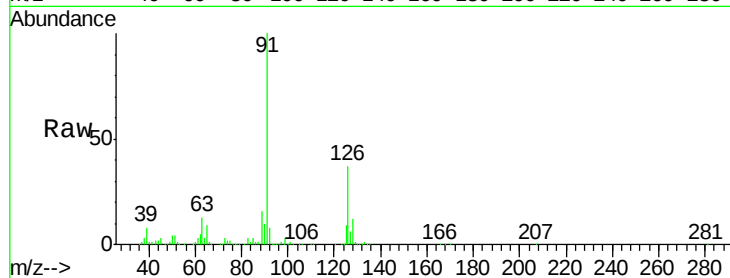
126 36.6 19.8 59.4

Manual Integrations

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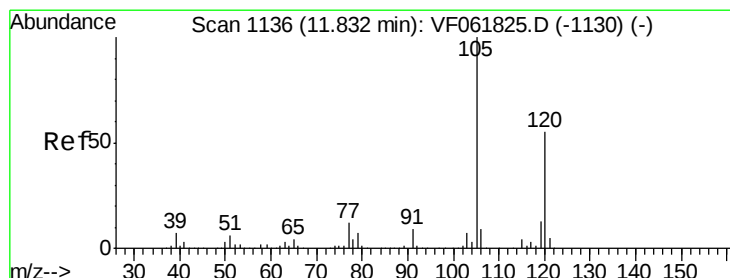
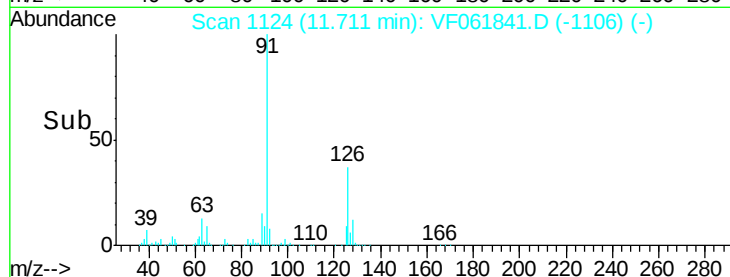
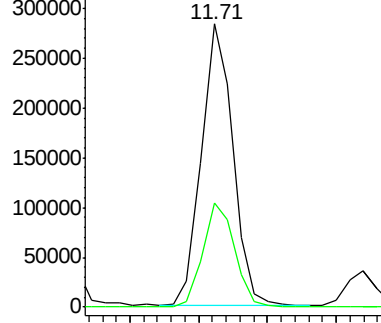
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 48.739 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061841.D

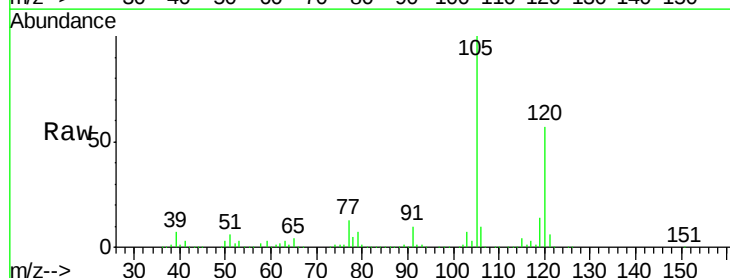
Acq: 5 Mar 2019 2:33

Tgt Ion:105 Resp: 557652

Ion Ratio Lower Upper

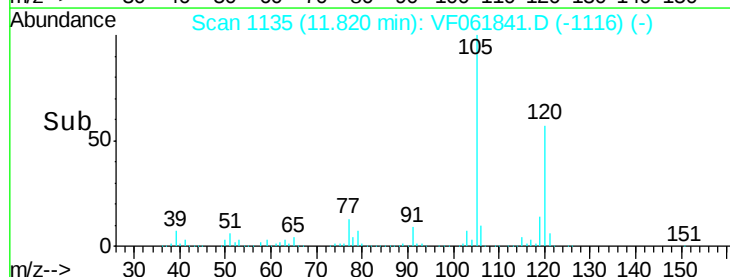
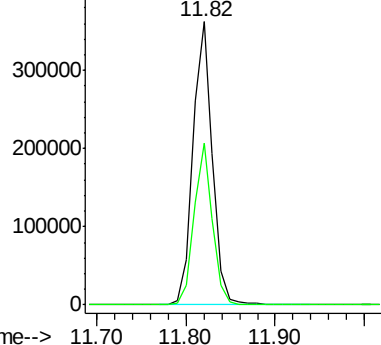
105 100

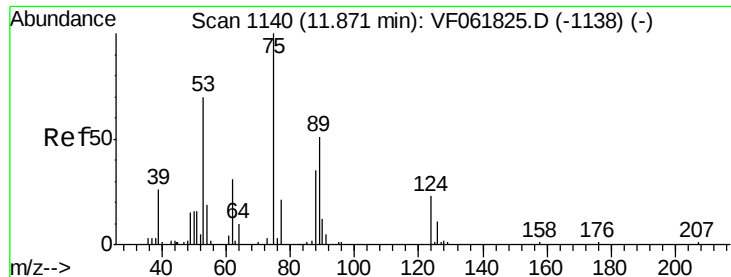
120 57.0 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 41.911 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.02 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 35036

Ion Ratio Lower Upper

75 100

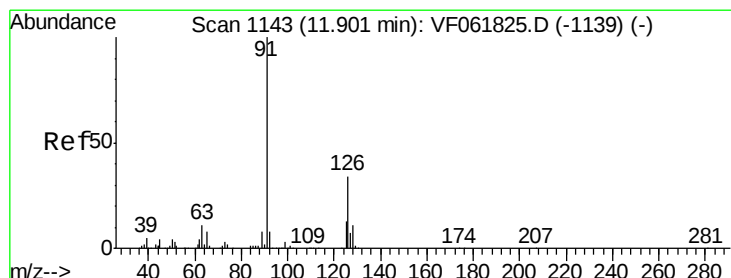
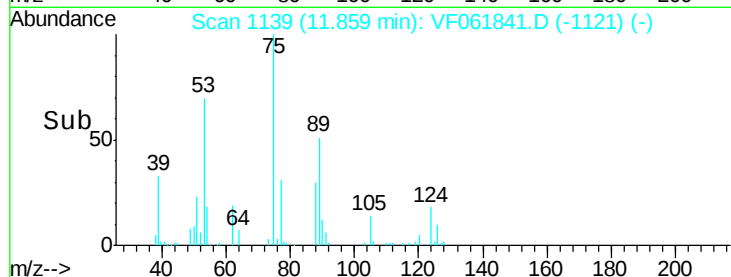
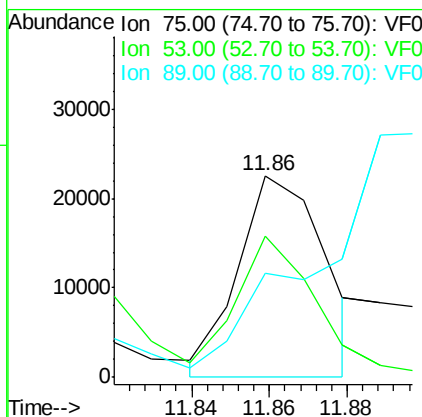
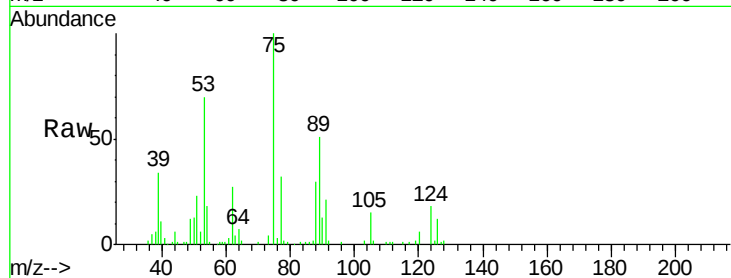
53 70.0 53.7 80.5

89 51.5 41.6 62.4

Manual Integrations
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#82

4-Chlorotoluene

Concen: 47.191 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VF061841.D

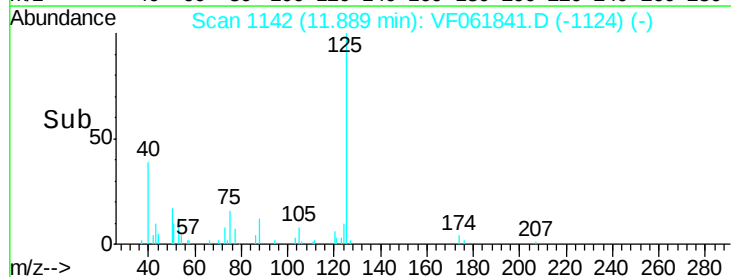
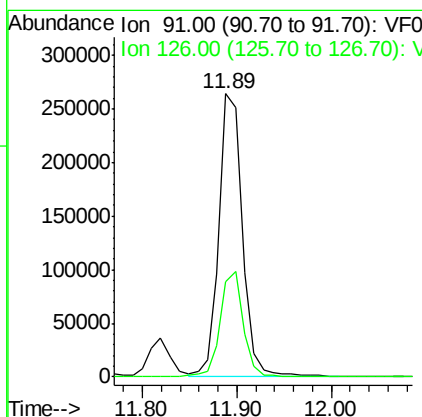
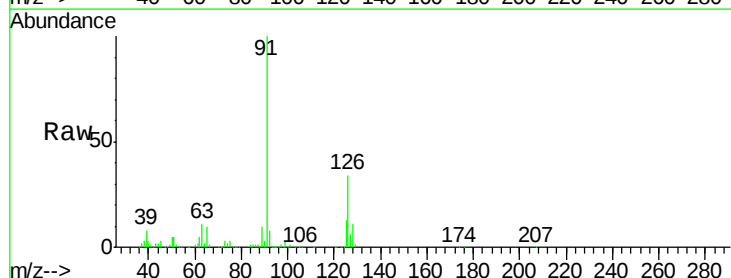
Acq: 5 Mar 2019 2:33

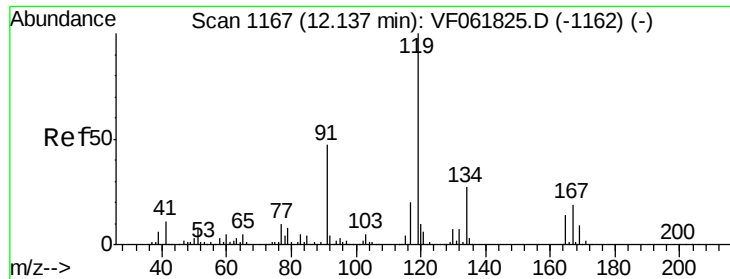
Tgt Ion: 91 Resp: 450647

Ion Ratio Lower Upper

91 100

126 33.9 19.1 57.1





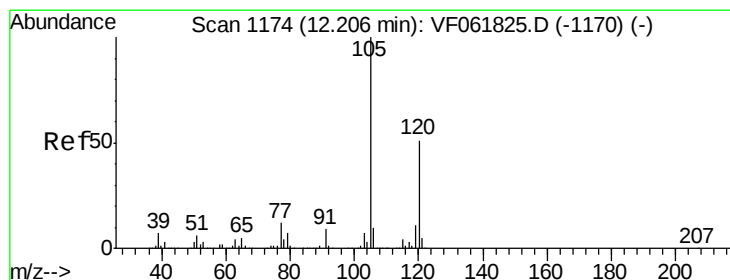
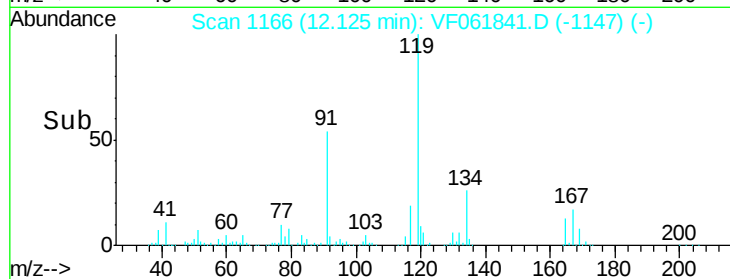
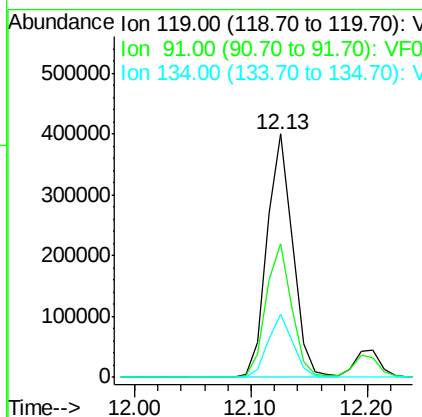
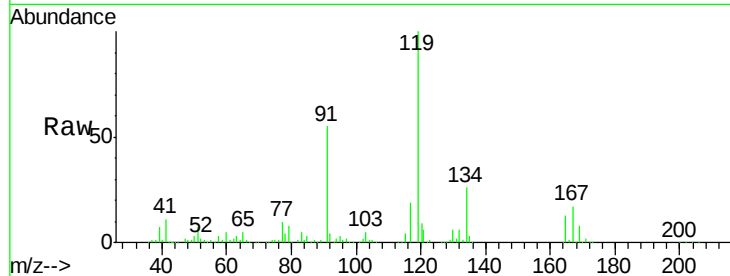
#83
 tert-Butylbenzene
 Concen: 48.218 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	54.7	26.3	78.8
134	26.0	12.9	38.7

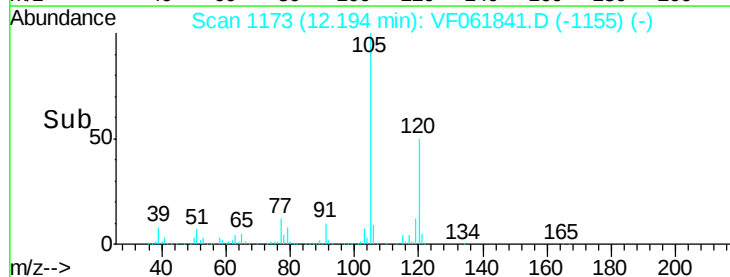
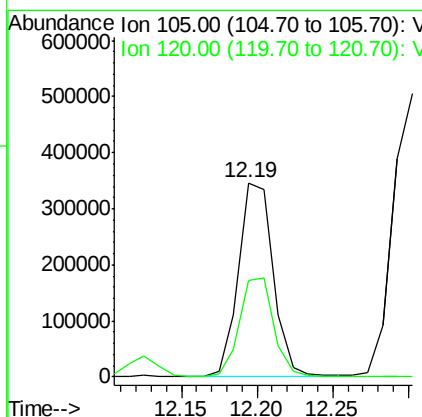
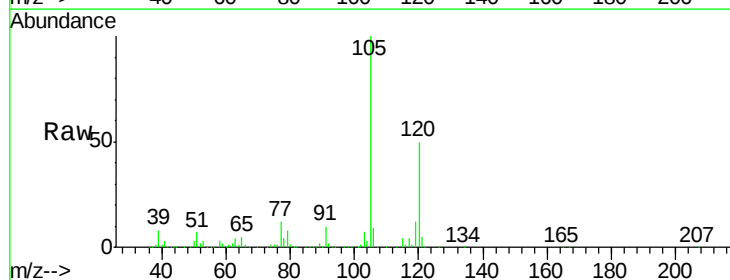
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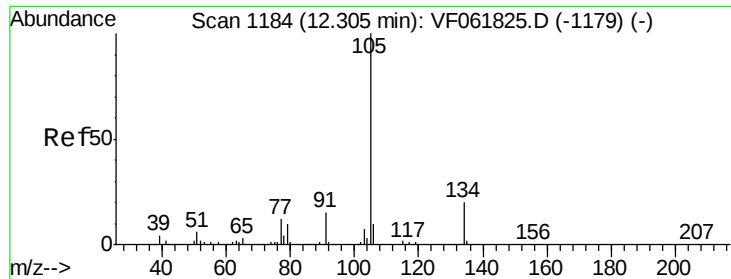
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 48.794 ug/l
 RT: 12.19 min Scan# 1173
 Delta R.T. -0.02 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.7	26.1	78.3





#85

sec-Butylbenzene

Concen: 46.871 ug/l

RT: 12.30 min Scan# 1184

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 768120

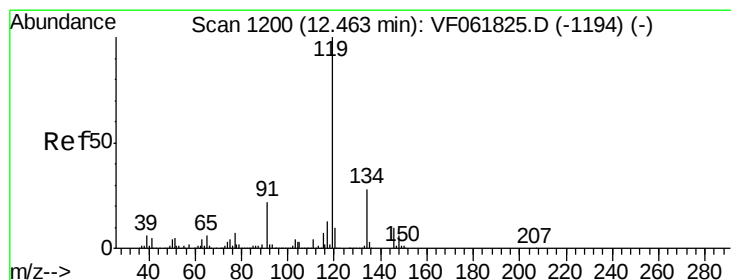
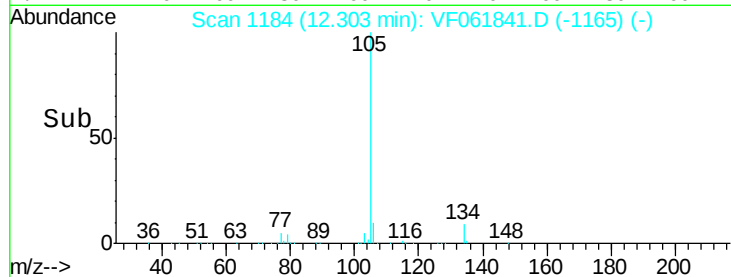
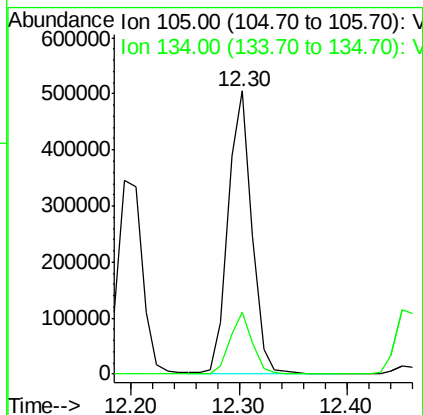
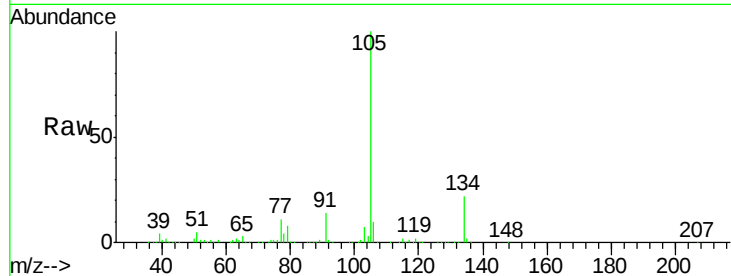
Ion Ratio Lower Upper

105 100

134 22.1 10.8 32.4

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 47.215 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

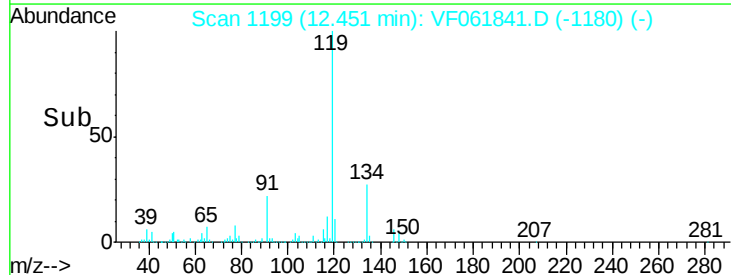
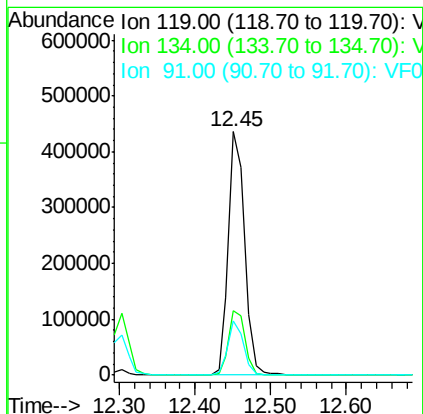
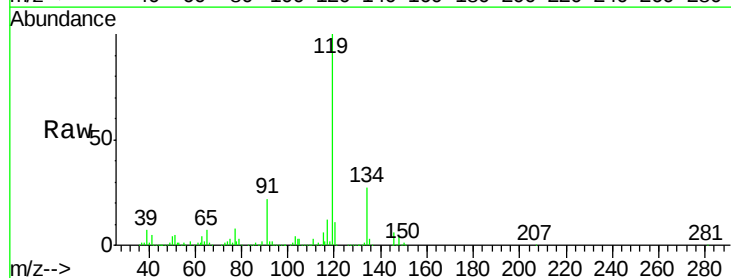
Tgt Ion:119 Resp: 649375

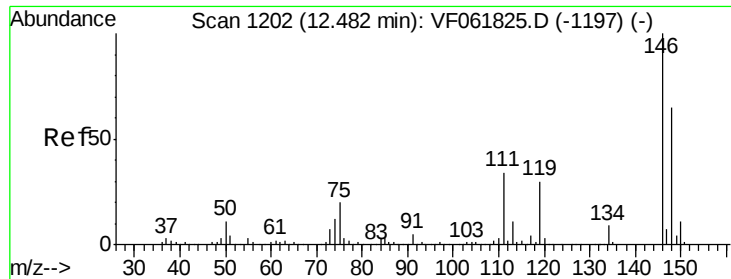
Ion Ratio Lower Upper

119 100

134 26.7 13.7 41.1

91 22.3 10.8 32.4





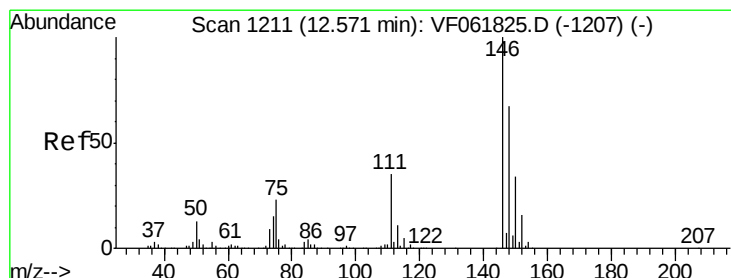
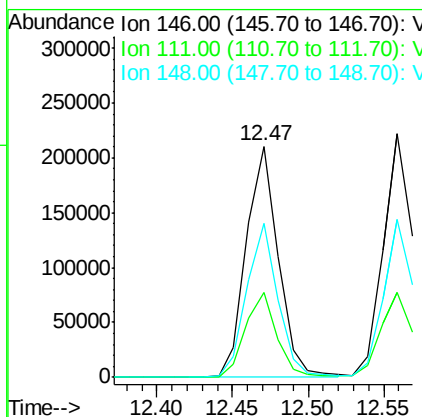
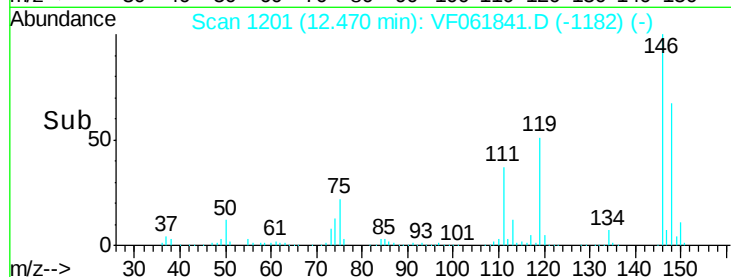
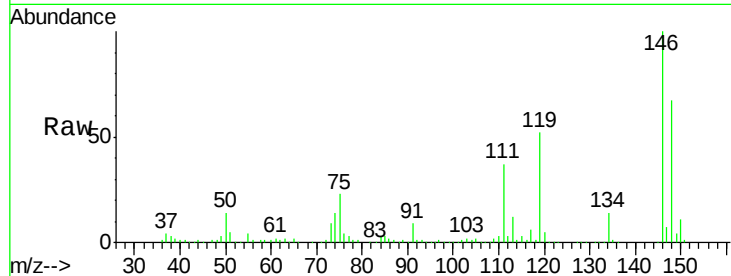
#87
 1,3-Dichlorobenzene
 Concen: 45.466 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	17.5	52.6
148	66.7	31.4	94.3

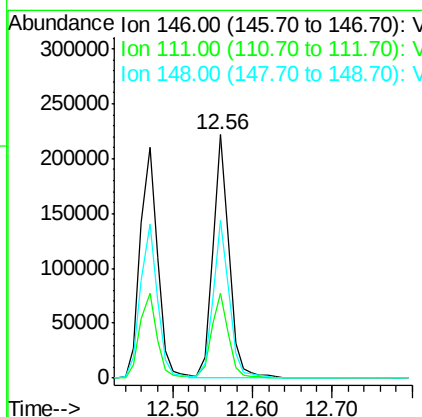
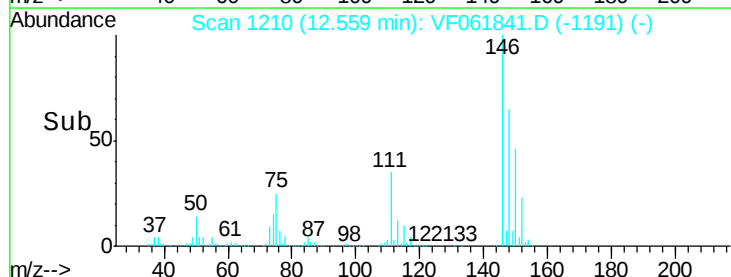
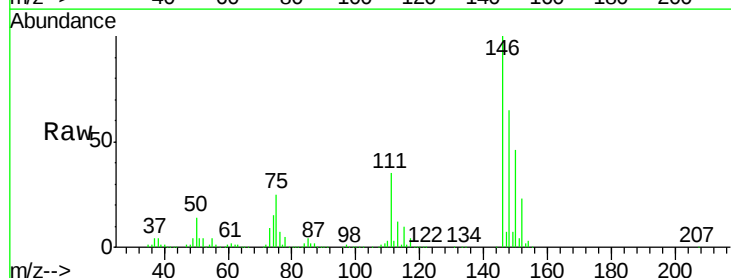
Manual Integrations
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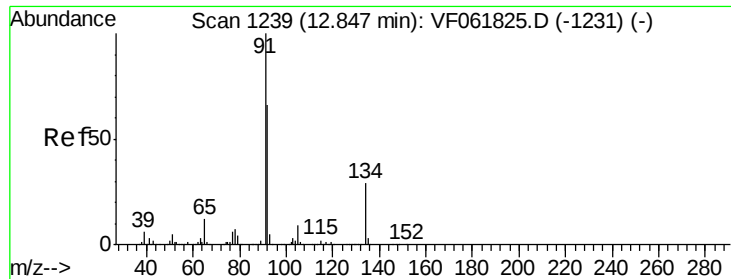
MMDadoda
 3/5/2019 10:48:42 AM



#88
 1,4-Dichlorobenzene
 Concen: 48.406 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	34.7	18.4	55.4
148	64.8	32.2	96.6





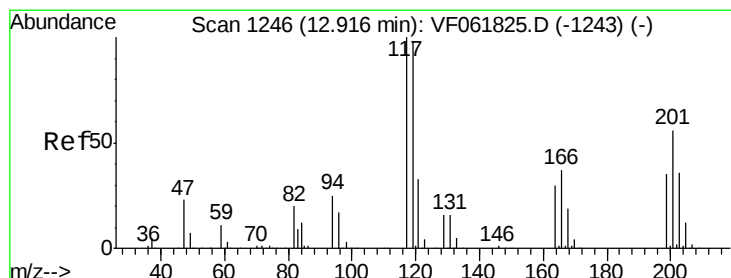
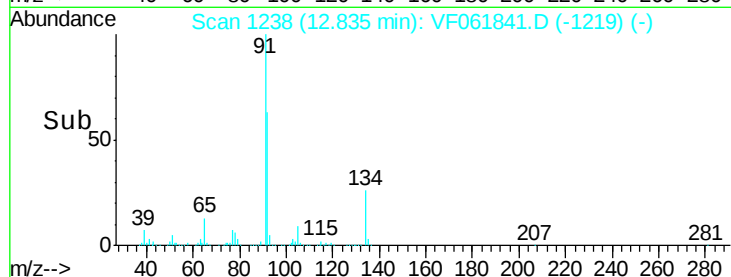
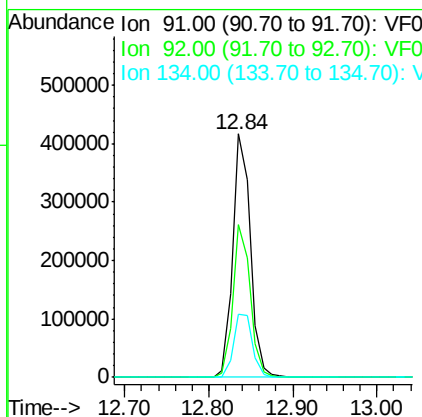
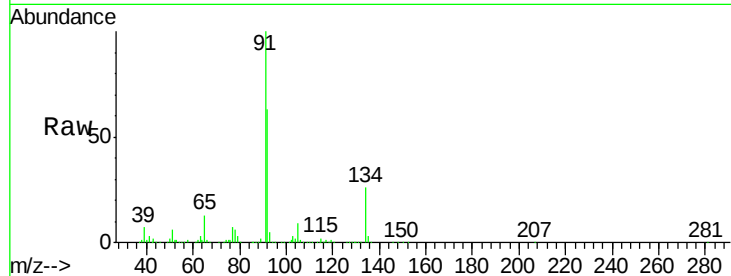
#89
n-Butylbenzene
Concen: 46.762 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.5	31.4	94.3
134	25.8	12.3	36.9

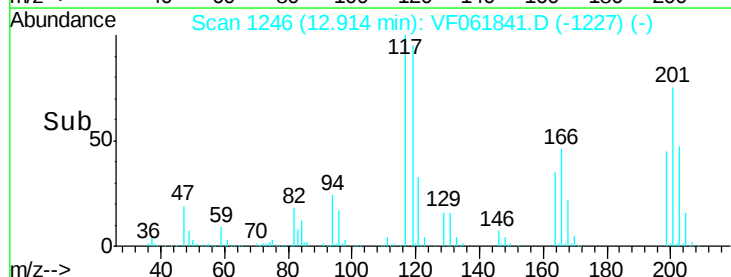
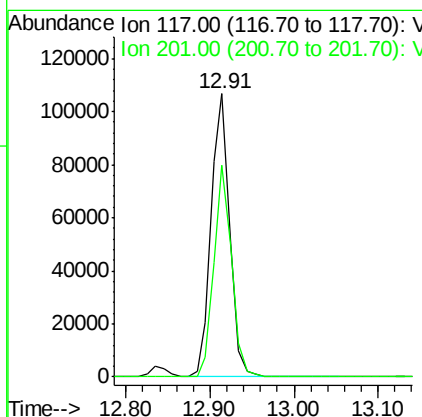
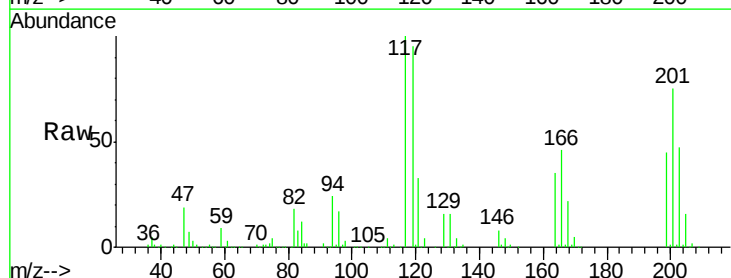
Manual Integrations
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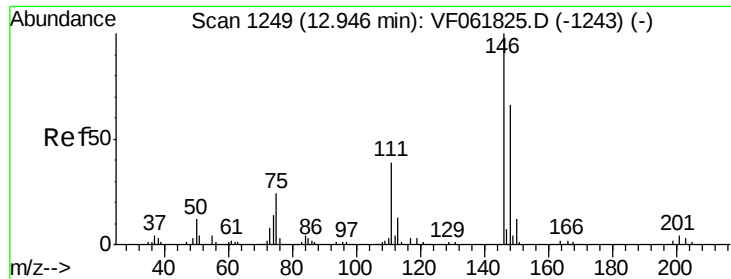
MMDadoda
3/5/2019 10:48:42 AM



#90
Hexachloroethane
Concen: 50.827 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF061841.D
Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.6	36.2	108.6





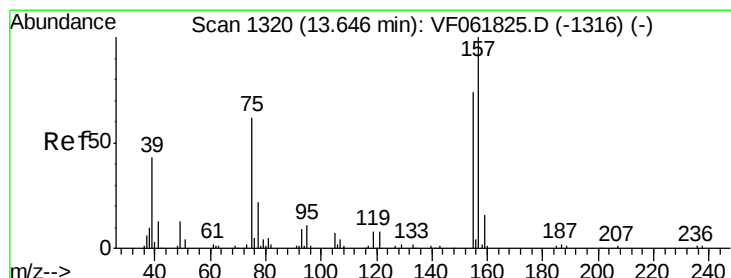
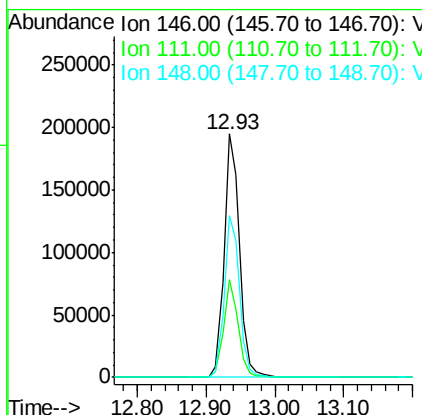
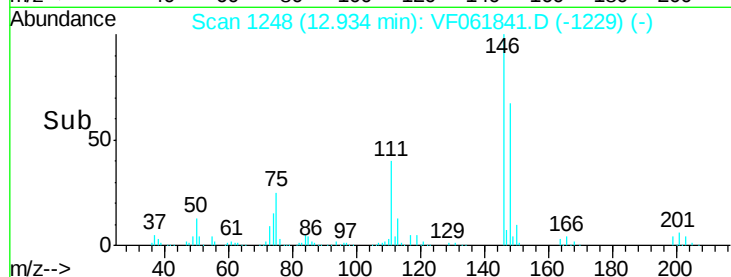
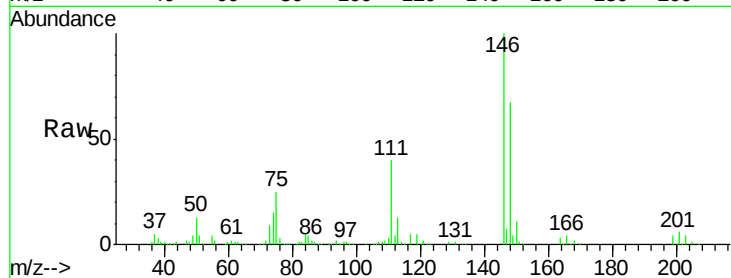
#91
 1,2-Dichlorobenzene
 Concen: 45.759 ug/l
 RT: 12.93 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.2	60.5
148	66.6	32.3	96.9

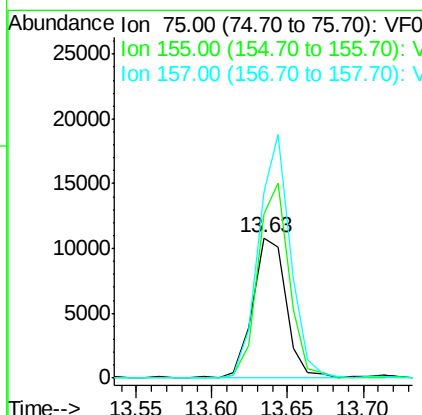
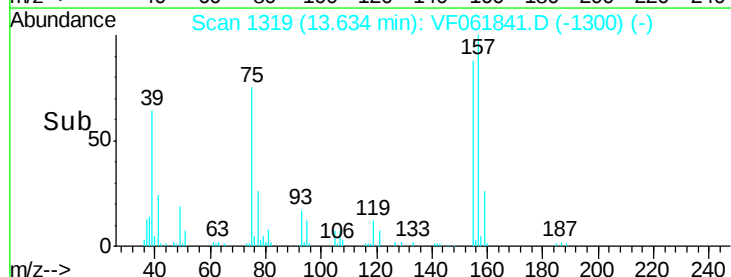
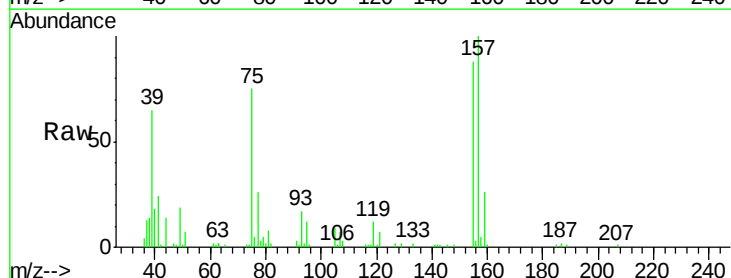
Manual Integrations
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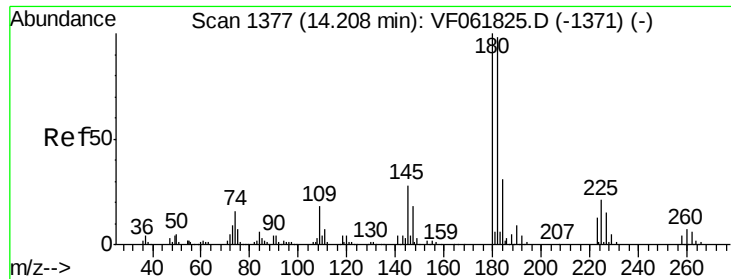
MMDadoda
 3/5/2019 10:48:42 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 41.360 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Lower	Upper
75	100		
155	117.6	48.9	146.8
157	132.9	58.3	174.8





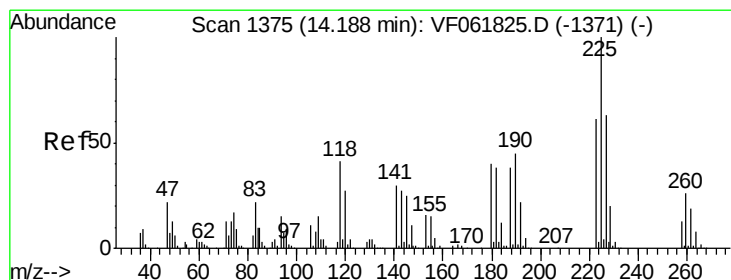
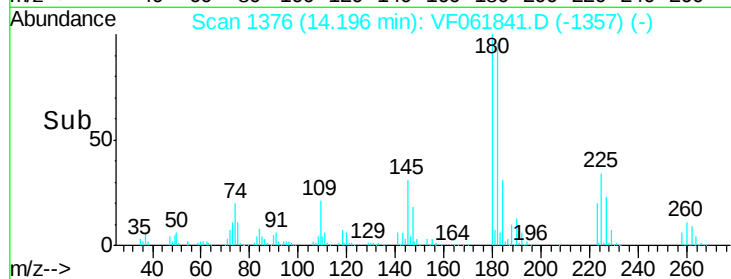
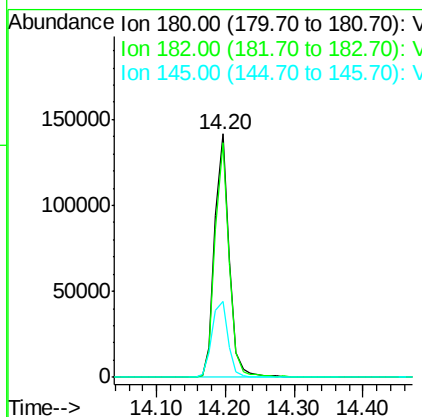
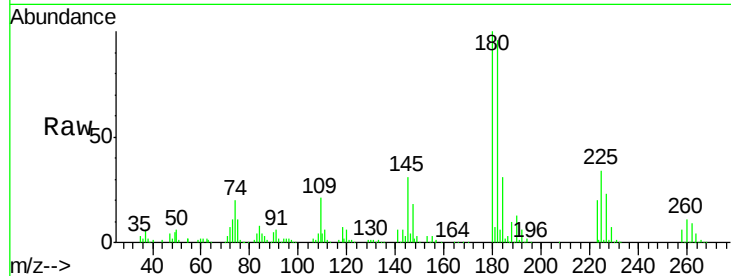
#93
 1,2,4-Trichlorobenzene
 Concen: 44.084 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	207221		
182	96.2	48.6	145.9	
145	31.3	15.3	45.9	

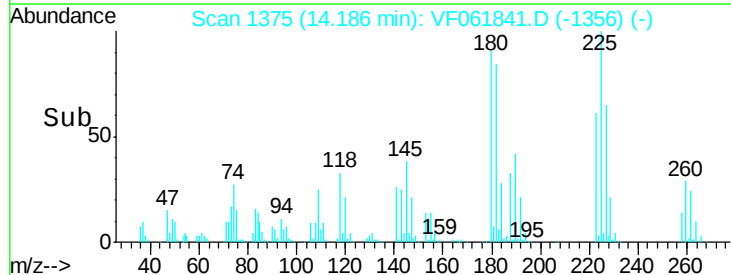
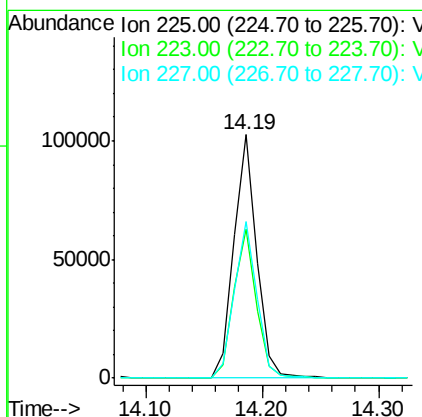
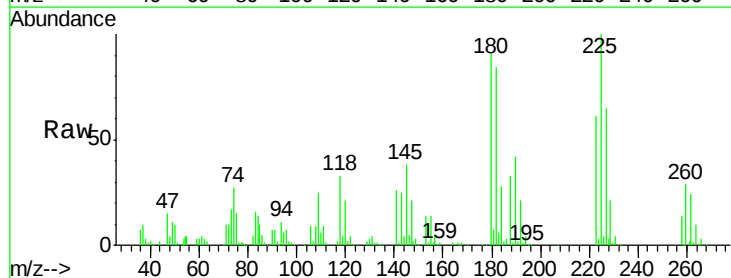
Manual Integrations
 APPROVED

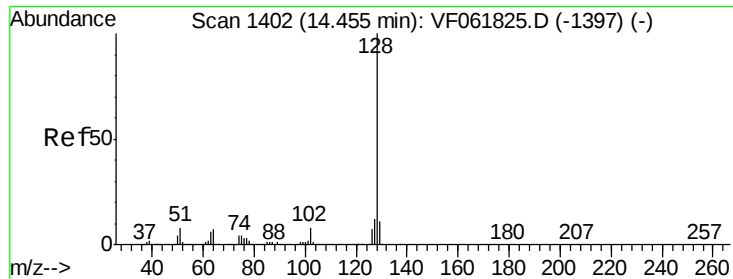
MMDadoda
 3/5/2019 10:48:42 AM



#94
 Hexachlorobutadiene
 Concen: 48.031 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061841.D
 Acq: 5 Mar 2019 2:33

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	139438		
223	61.1	30.9	92.7	
227	64.5	32.1	96.3	





#95

Naphthalene

Concen: 46.709 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Instrument :

MSVOA_F

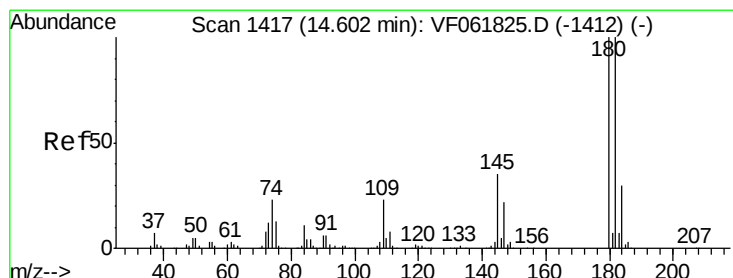
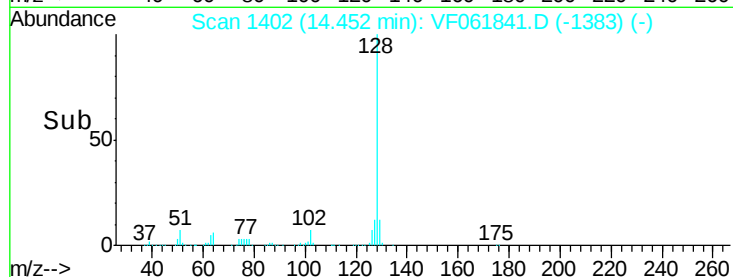
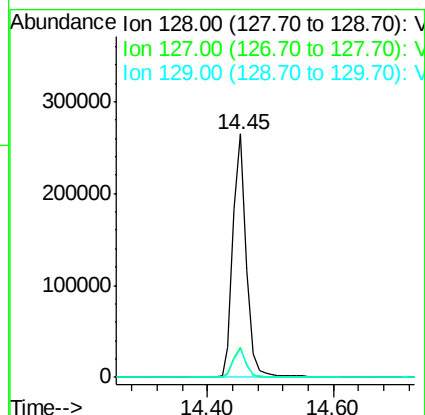
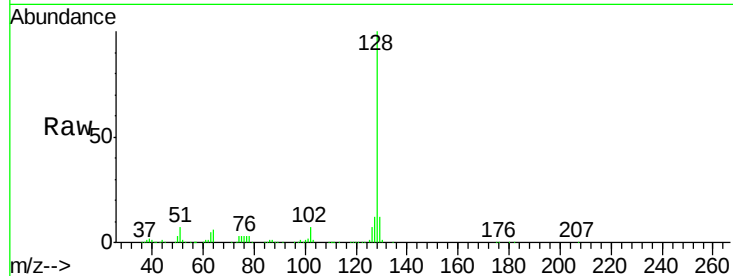
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	384147
Ion Ratio		Lower	Upper
128	100		
127	12.1	9.8	14.6
129	11.5	9.4	14.2

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:48:42 AM



#96

1,2,3-Trichlorobenzene

Concen: 45.005 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF061841.D

Acq: 5 Mar 2019 2:33

Tgt Ion:	180	Resp:	194170
Ion Ratio		Lower	Upper
180	100		
182	97.1	49.0	147.2
145	30.8	15.4	46.1

