

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
 Data File : VF061843.D
 Acq On : 5 Mar 2019 13:49
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 12:12:09 AM

Quant Time: Mar 06 05:54:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	311668	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	469488	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.77	117	394204	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	205682	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	114252	50.34	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	100.68%	
35) Dibromofluoromethane	4.11	113	170193	51.94	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	103.88%	
50) Toluene-d8	7.55	98	496503	50.98	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	101.96%	
62) 4-Bromofluorobenzene	11.41	95	186108	48.79	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	97.58%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	188609	49.292	ug/l	91
3) Chloromethane	1.10	50	184244	49.684	ug/l	90
4) Vinyl Chloride	1.14	62	179119	50.882	ug/l	100
5) Bromomethane	1.31	94	129854	54.126	ug/l	96
6) Chloroethane	1.40	64	86167	51.494	ug/l	96
7) Trichlorofluoromethane	1.48	101	232826m	54.153	ug/l	
8) Diethyl Ether	1.63	74	49615	50.747	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.85	101	152557	52.251	ug/l	97
10) Methyl Iodide	1.92	142	292035m	52.561	ug/l	
11) Tert butyl alcohol	2.57	59	29663	230.255	ug/l #	83
12) 1,1-Dichloroethene	1.80	96	116503	43.707	ug/l	92
13) Acrolein	2.00	56	46136	282.630	ug/l	89
14) Allyl chloride	2.10	41	150553	51.269	ug/l	99
15) Acrylonitrile	2.94	53	93492	227.908	ug/l	97
16) Acetone	2.23	43	129249	271.852	ug/l	97
17) Carbon Disulfide	1.81	76	440004m	53.031	ug/l	
18) Methyl Acetate	2.34	43	50403	54.962	ug/l	96
19) Methyl tert-butyl Ether	2.42	73	228172	50.602	ug/l	98
20) Methylene Chloride	2.18	84	134321m	50.964	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	120058	47.857	ug/l	89
22) Diisopropyl ether	2.80	45	401339	52.541	ug/l	98
23) Vinyl Acetate	3.18	43	863965	253.182	ug/l	100
24) 1,1-Dichloroethane	2.87	63	227635	49.858	ug/l	98
25) 2-Butanone	4.34	43	235344	243.354	ug/l	98
26) 2,2-Dichloropropane	3.60	77	104423	51.234	ug/l	99
27) cis-1,2-Dichloroethene	3.47	96	189184	54.432	ug/l	99
28) Bromochloromethane	3.71	49	95623	48.047	ug/l #	97
29) Tetrahydrofuran	4.07	42	98533	236.248	ug/l	100
30) Chloroform	3.85	83	272679	52.287	ug/l	96
31) Cyclohexane	3.68	56	243167m	50.849	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	155615	48.411	ug/l	96
36) 1,1-Dichloropropene	4.28	75	226995	51.184	ug/l	98
37) Ethyl Acetate	4.11	43	87473	46.992	ug/l #	97
38) Carbon Tetrachloride	3.98	117	156215	49.759	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
 Data File : VF061843.D
 Acq On : 5 Mar 2019 13:49
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 12:12:09 AM

Quant Time: Mar 06 05:54:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:50:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	277002	52.881	ug/l	98
40) Benzene	4.63	78	595518	51.372	ug/l	99
41) Methacrylonitrile	4.74	41	46500	45.594	ug/l	95
42) 1,2-Dichloroethane	4.94	62	145389	50.327	ug/l	97
43) Isopropyl Acetate	6.96	43	107473	46.838	ug/l #	98
44) Trichloroethene	5.50	130	184583	51.238	ug/l	97
45) 1,2-Dichloropropane	6.23	63	143179	51.942	ug/l	99
46) Dibromomethane	6.08	93	86351	49.774	ug/l	96
47) Bromodichloromethane	6.38	83	193056	50.370	ug/l	99
48) Methyl methacrylate	6.71	41	67528	46.502	ug/l	92
49) 1,4-Dioxane	6.71	88	13037	982.078	ug/l #	82
51) 4-Methyl-2-Pentanone	8.25	43	375364	236.696	ug/l	97
52) Toluene	7.62	92	352152	51.352	ug/l	99
53) t-1,3-Dichloropropene	8.27	75	157253	49.705	ug/l	95
54) cis-1,3-Dichloropropene	7.29	75	215643	49.416	ug/l	99
55) 1,1,2-Trichloroethane	8.49	97	92709	46.921	ug/l	94
56) Ethyl methacrylate	8.61	69	104255	46.819	ug/l	97
57) 1,3-Dichloropropane	8.85	76	159363	49.319	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.28	63	78854	223.854	ug/l	97
59) 2-Hexanone	9.48	43	269763	235.796	ug/l	98
60) Dibromochloromethane	8.71	129	147172	52.261	ug/l	94
61) 1,2-Dibromoethane	8.98	107	108248	49.820	ug/l	92
64) Tetrachloroethene	8.15	164	156272	51.591	ug/l	95
65) Chlorobenzene	9.80	112	400586	52.893	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.93	131	159374	54.314	ug/l	97
67) Ethyl Benzene	9.90	91	678658	54.064	ug/l	99
68) m/p-Xylenes	10.12	106	516338	107.373	ug/l	100
69) o-Xylene	10.71	106	270846	52.305	ug/l	99
70) Styrene	10.78	104	383364	52.606	ug/l	98
71) Bromoform	10.77	173	76460	49.303	ug/l	98
73) Isopropylbenzene	11.12	105	775964	54.799	ug/l	99
74) N-amyl acetate	11.37	43	168636	51.731	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.69	83	120459	51.184	ug/l	93
76) 1,2,3-Trichloropropane	11.79	75	81808	50.931	ug/l	93
77) Bromobenzene	11.49	156	179842	52.773	ug/l	91
78) n-propylbenzene	11.59	91	830197	51.917	ug/l	95
79) 2-Chlorotoluene	11.72	91	490431	53.645	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	602164	52.966	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.87	75	40875m	55.651	ug/l	
82) 4-Chlorotoluene	11.90	91	492472	52.665	ug/l	94
83) tert-Butylbenzene	12.13	119	660659	54.727	ug/l	91
84) 1,2,4-Trimethylbenzene	12.20	105	602439	54.055	ug/l	99
85) sec-Butylbenzene	12.30	105	850762	54.156	ug/l	96
86) p-Isopropyltoluene	12.46	119	738105	55.274	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	337288	52.124	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	329097	52.723	ug/l	97
89) n-Butylbenzene	12.85	91	679123	53.216	ug/l	98
90) Hexachloroethane	12.91	117	177397	55.192	ug/l	85
91) 1,2-Dichlorobenzene	12.94	146	324431	52.918	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	18780	46.258	ug/l	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
Data File : VF061843.D
Acq On : 5 Mar 2019 13:49
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA-F/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

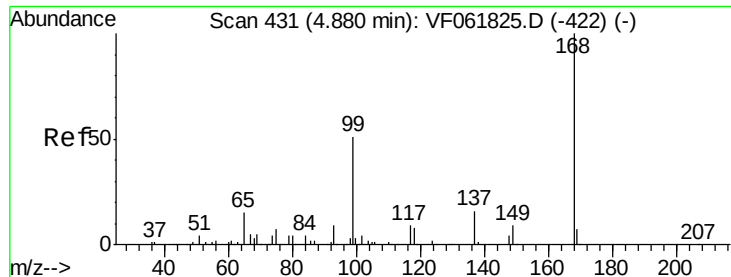
Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM

Quant Time: Mar 06 05:54:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
Quant Title : SW846 8260
QLast Update : Tue Mar 05 04:50:44 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	230368	53.598	ug/l	96
94) Hexachlorobutadiene	14.19	225	152525	51.261	ug/l	98
95) Naphthalene	14.45	128	388298	50.723	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	217076	54.700	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 311668

Ion Ratio Lower Upper

168 100

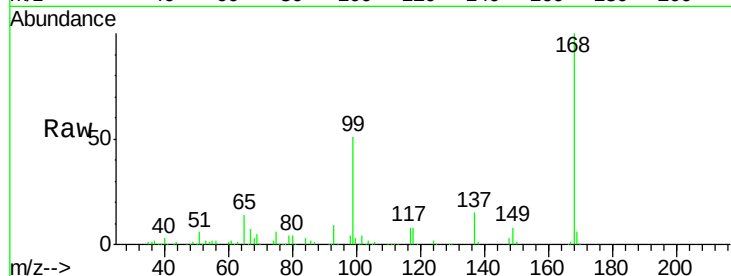
99 50.6 40.8 61.2

Manual Integrations

APPROVED

MMDadoda

3/8/2019 12:12:09 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

120000

100000

80000

60000

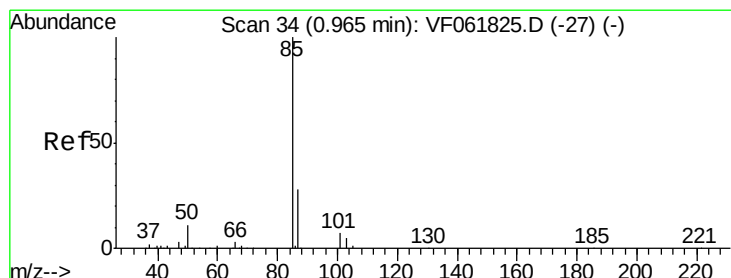
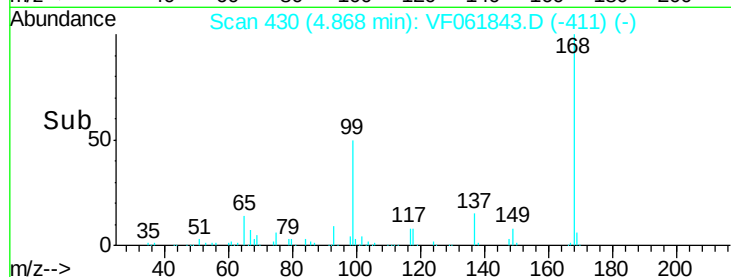
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 49.292 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061843.D

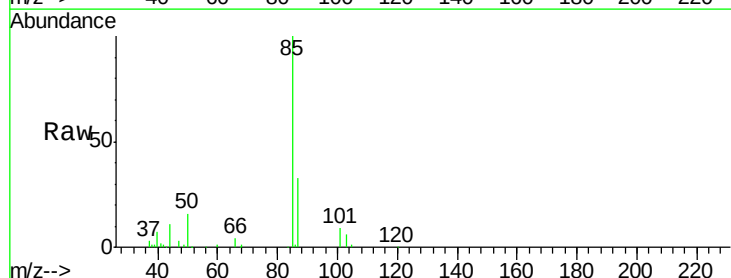
Acq: 5 Mar 2019 13:49

Tgt Ion: 85 Resp: 188609

Ion Ratio Lower Upper

85 100

87 32.7 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

50000

40000

30000

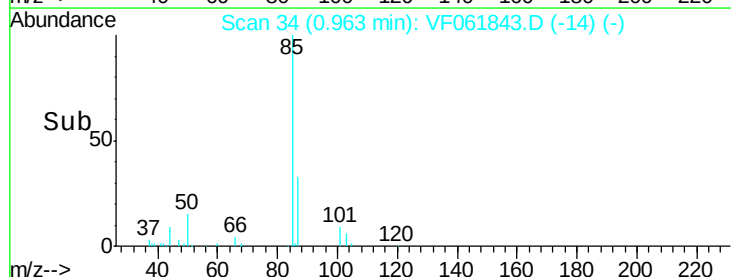
20000

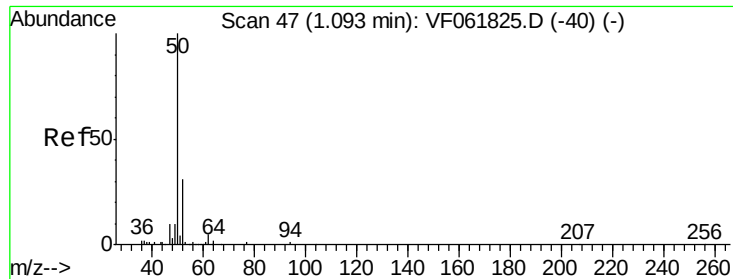
10000

0

Time-->

0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 49.684 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 184244

Ion Ratio Lower Upper

50 100

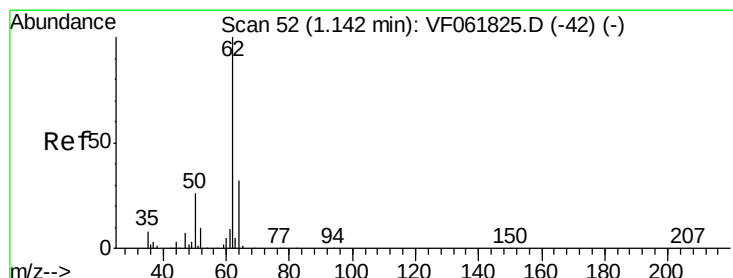
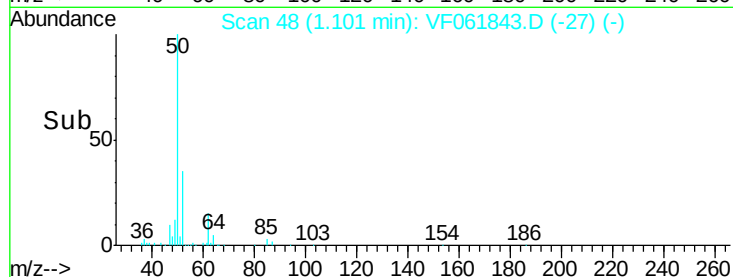
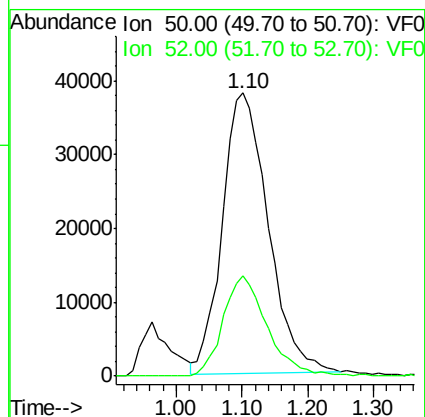
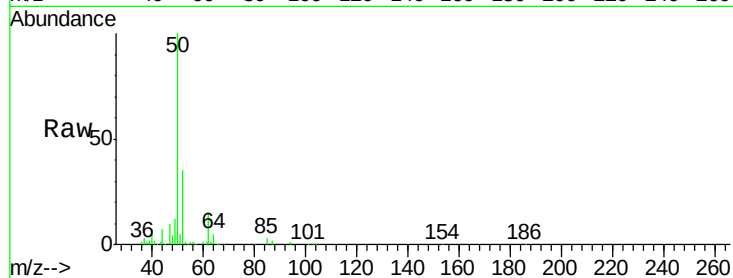
52 35.4 23.8 35.8

Manual Integrations

APPROVED

MMDadoda

3/8/2019 12:12:09 AM



#4

Vinyl Chloride

Concen: 50.882 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061843.D

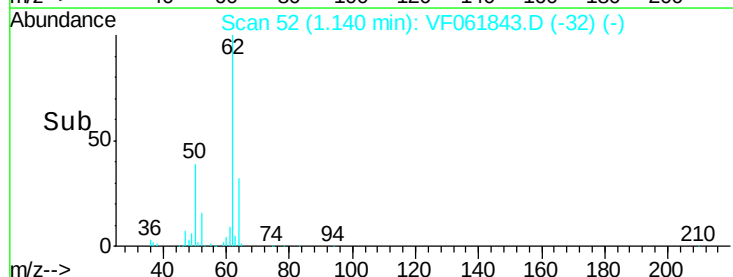
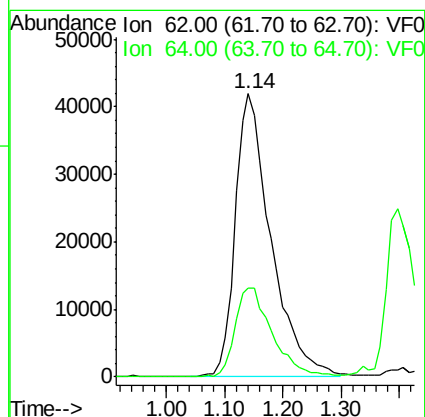
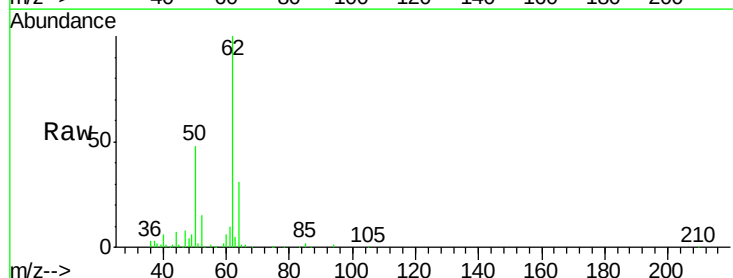
Acq: 5 Mar 2019 13:49

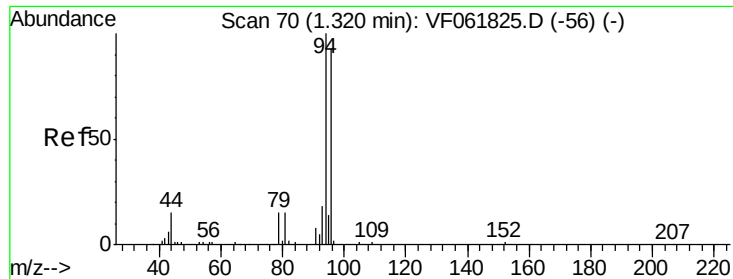
Tgt Ion: 62 Resp: 179119

Ion Ratio Lower Upper

62 100

64 31.5 25.2 37.8





#5

Bromomethane

Concen: 54.126 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 94 Resp: 129854

Ion Ratio Lower Upper

94 100

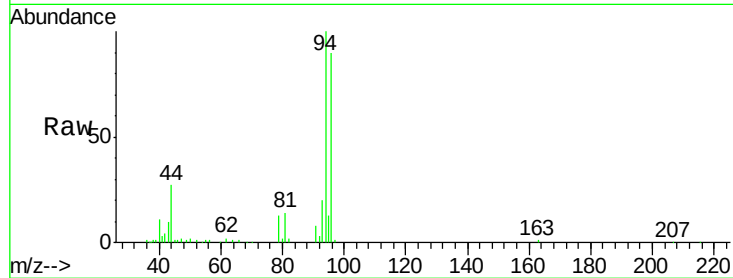
96 90.5 75.2 112.8

Manual Integrations

APPROVED

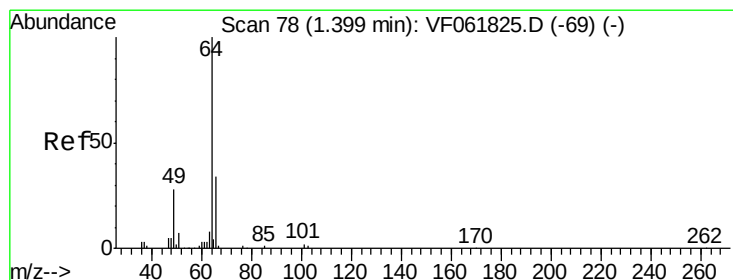
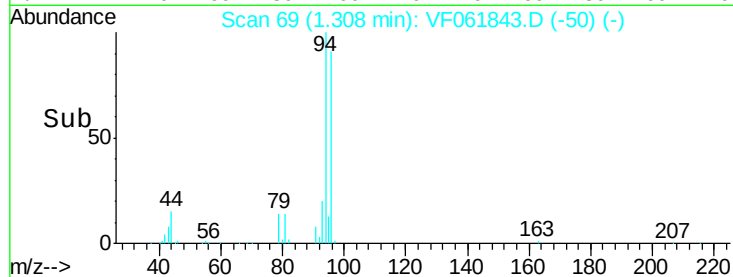
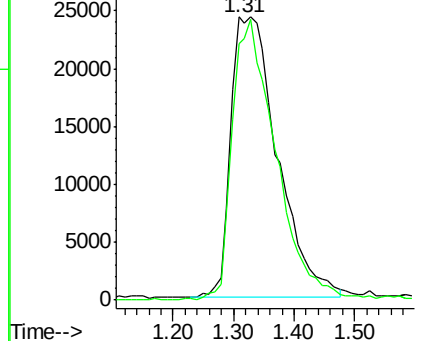
MMDadoda

3/8/2019 12:12:09 AM



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 51.494 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF061843.D

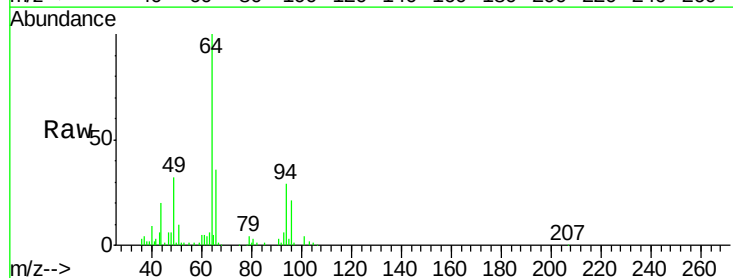
Acq: 5 Mar 2019 13:49

Tgt Ion: 64 Resp: 86167

Ion Ratio Lower Upper

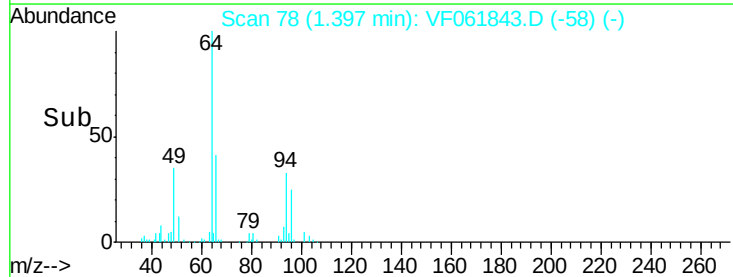
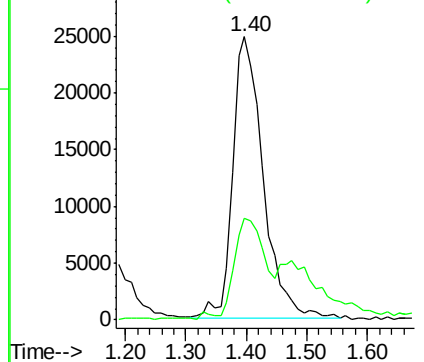
64 100

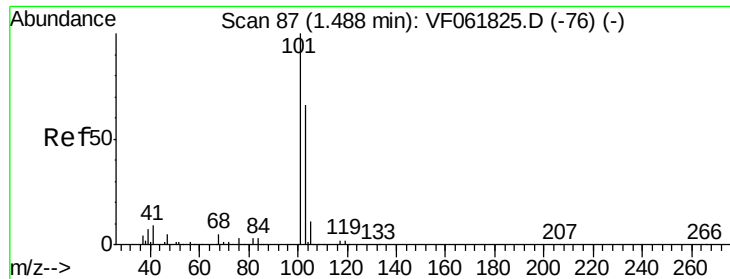
66 35.8 27.0 40.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

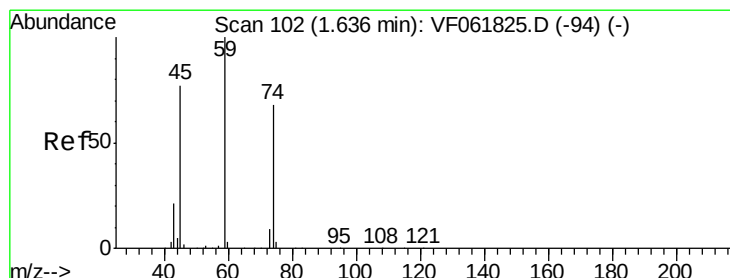
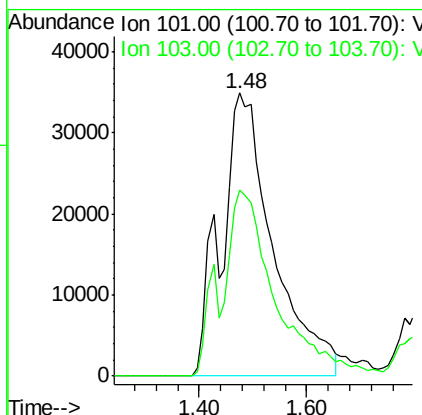
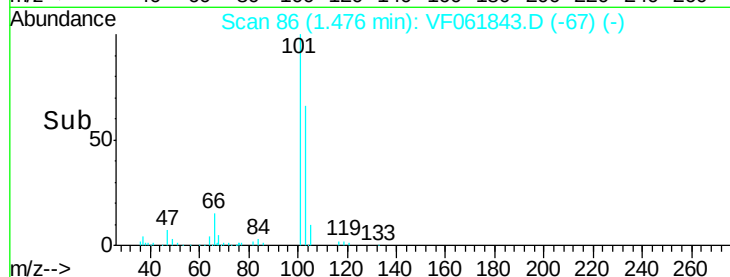
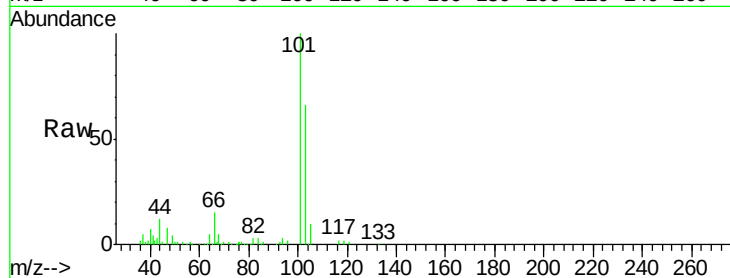
Trichlorofluoromethane
Concen: 54.153 ug/l m
RT: 1.48 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.8	79.2

Manual Integrations
APPROVED

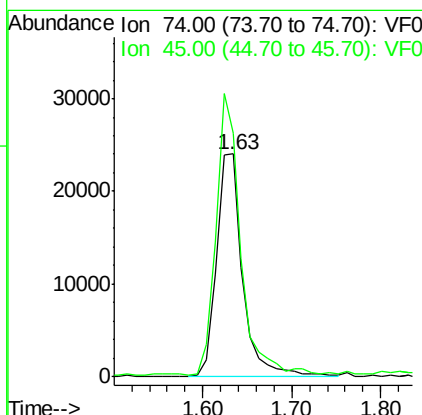
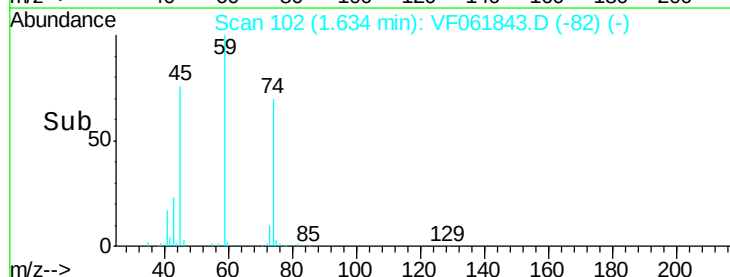
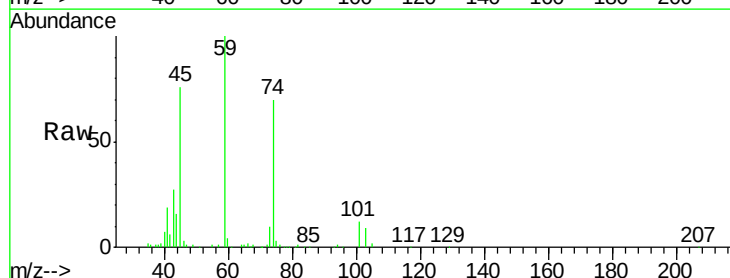
MMDadoda
3/8/2019 12:12:09 AM

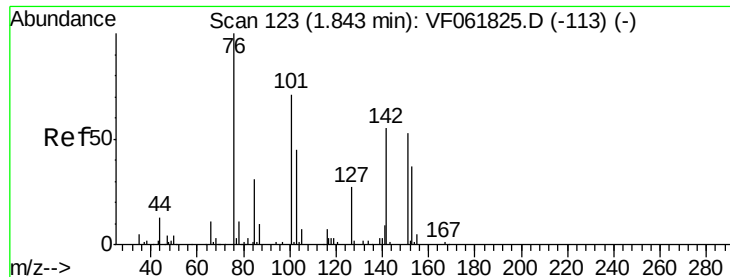


#8

Diethyl Ether
Concen: 50.747 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.00 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
74	100		
45	109.3	57.2	171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 52.251 ug/l

RT: 1.85 min Scan# 124

Delta R.T. 0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

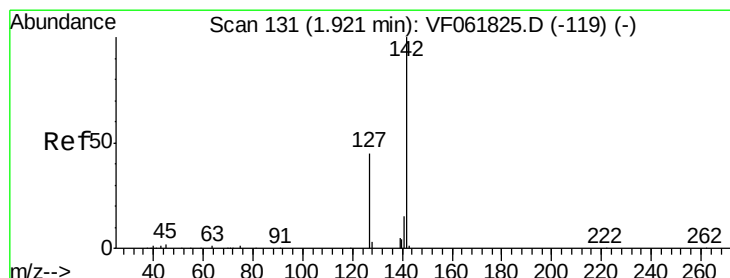
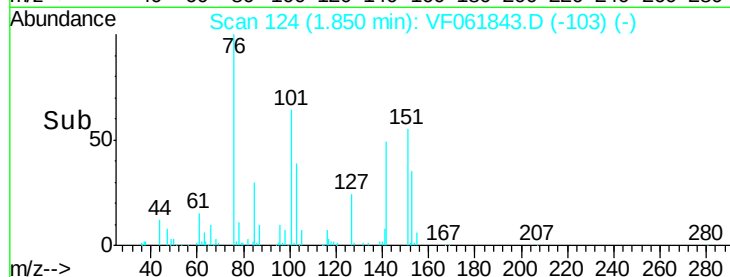
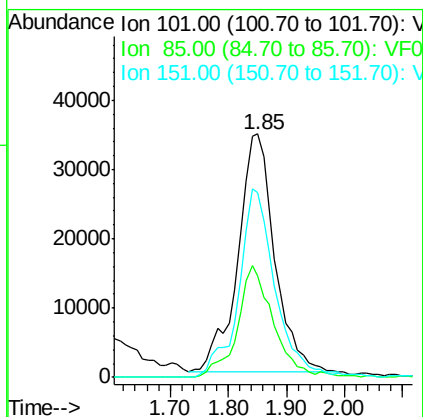
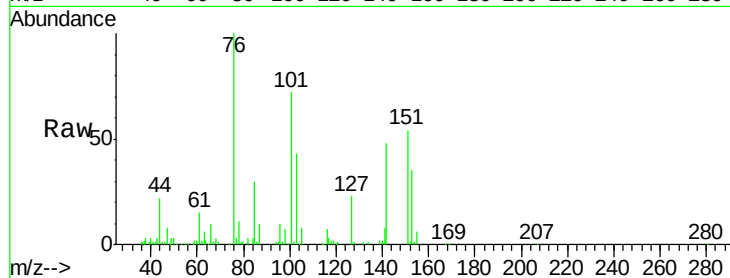
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	152557
Ion Ratio	Lower	Upper	
101	100		
85	41.9	34.0	51.0
151	75.6	57.3	85.9

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#10

Methyl Iodide

Concen: 52.561 ug/l m

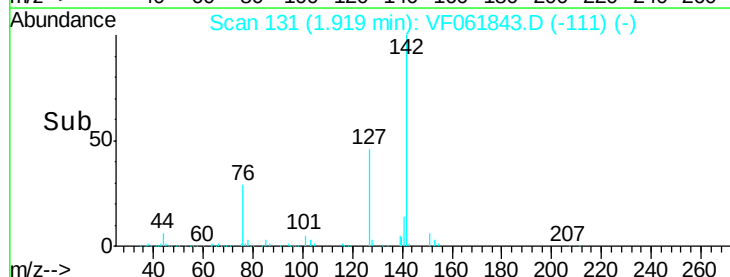
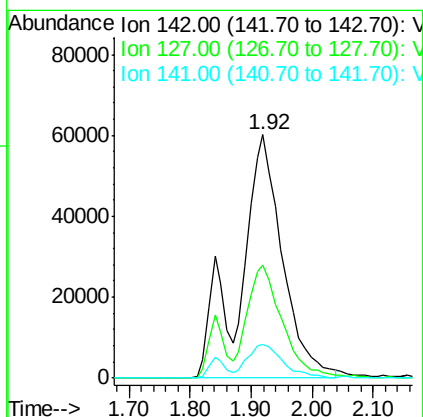
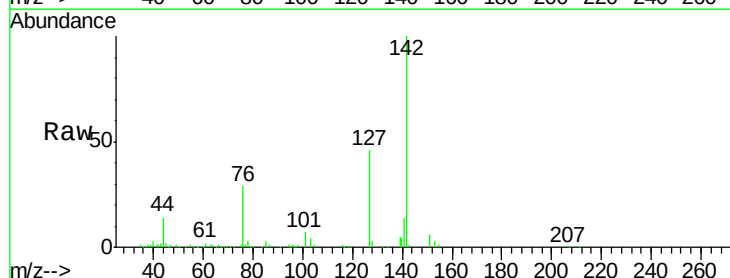
RT: 1.92 min Scan# 131

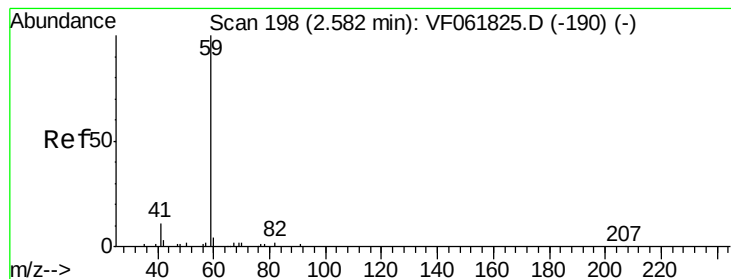
Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion:	142	Resp:	292035
Ion Ratio	Lower	Upper	
142	100		
127	46.4	35.8	53.6
141	13.9	11.7	17.5





#11

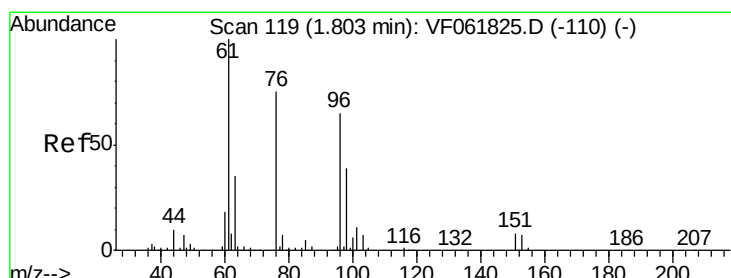
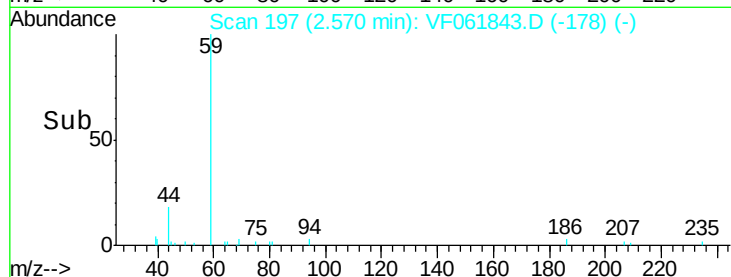
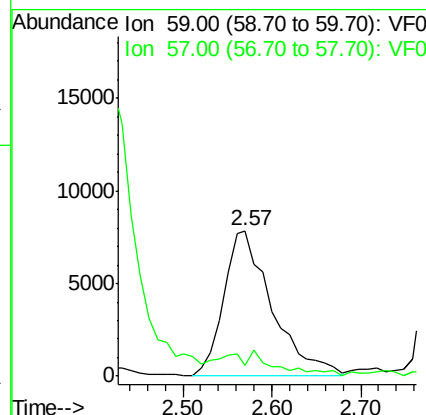
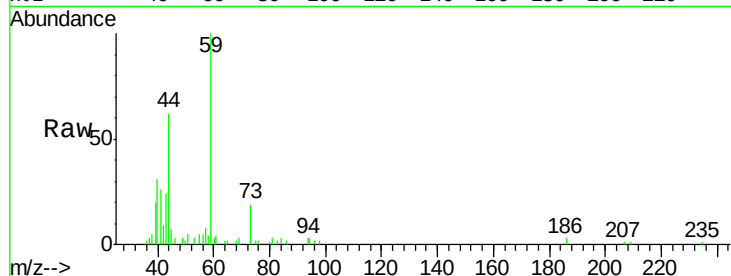
Tert butyl alcohol
Concen: 230.255 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	7.7	11.8	17.6#

Manual Integrations
APPROVED

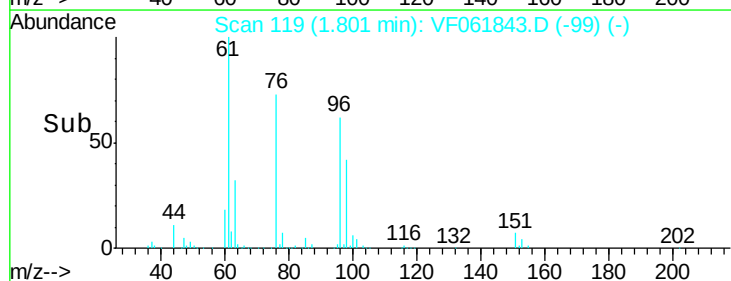
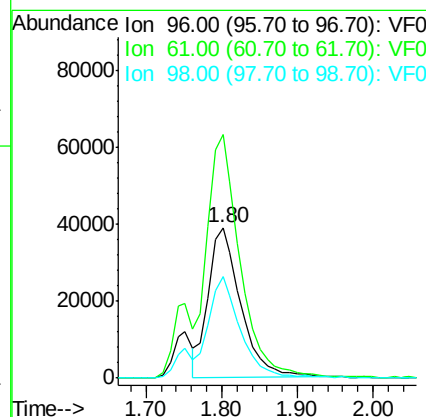
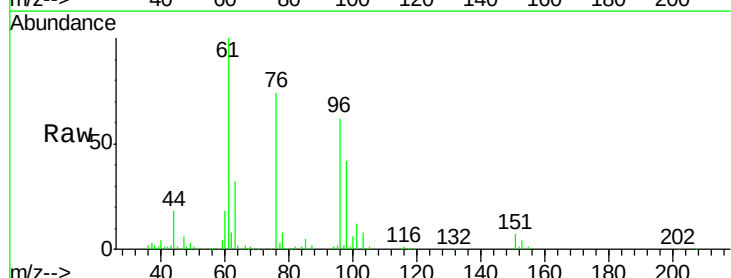
MMDadoda
3/8/2019 12:12:09 AM

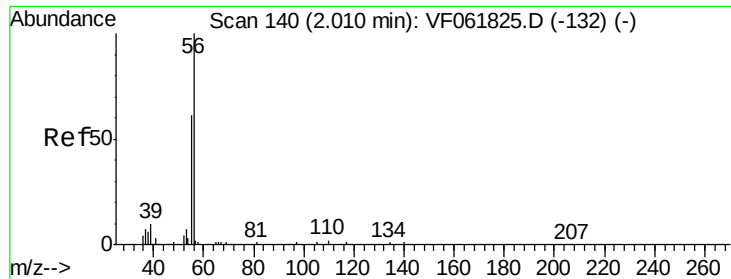


#12

1,1-Dichloroethene
Concen: 43.707 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.5	122.5	183.7
98	67.5	47.1	70.7





#13

Acrolein

Concen: 282.630 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 46136

Ion Ratio Lower Upper

56 100

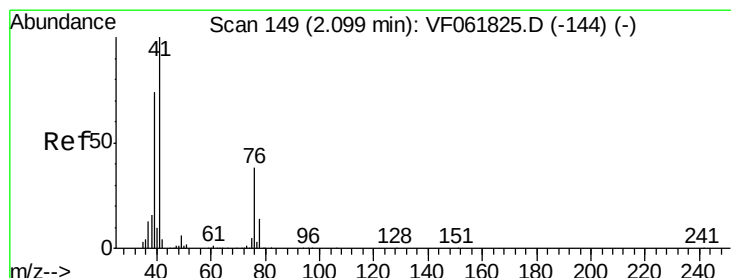
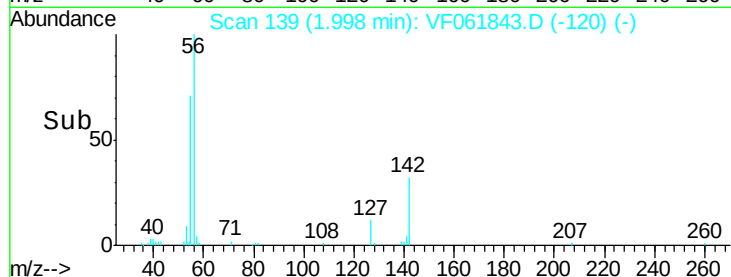
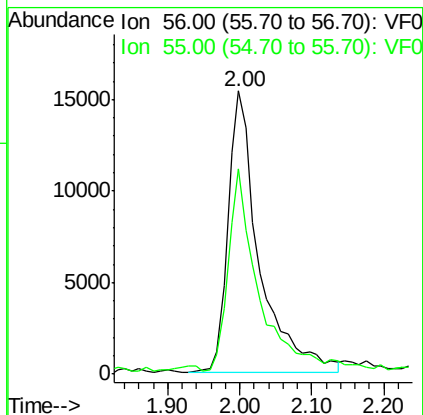
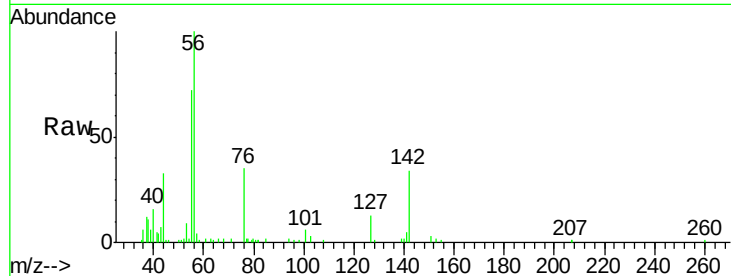
55 72.4 51.3 76.9

Manual Integrations

APPROVED

MMDadoda

3/8/2019 12:12:09 AM



#14

Allyl chloride

Concen: 51.269 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

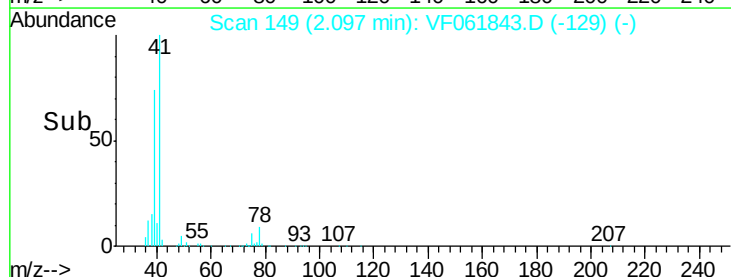
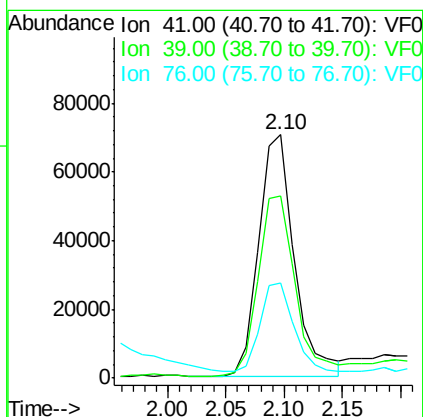
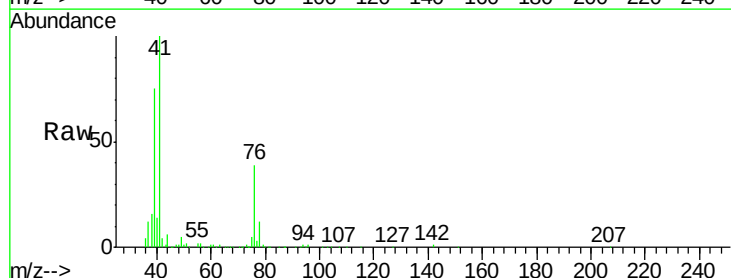
Tgt Ion: 41 Resp: 150553

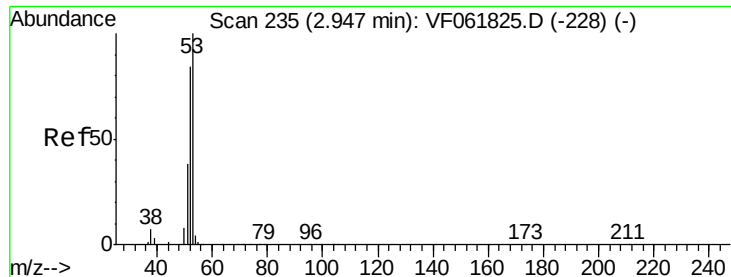
Ion Ratio Lower Upper

41 100

39 74.8 59.6 89.4

76 39.1 32.3 48.5





#15

Acrylonitrile

Concen: 227.908 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

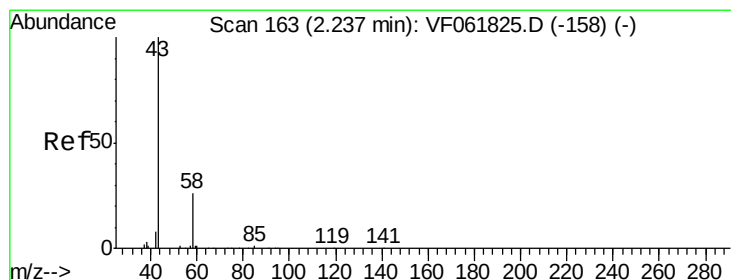
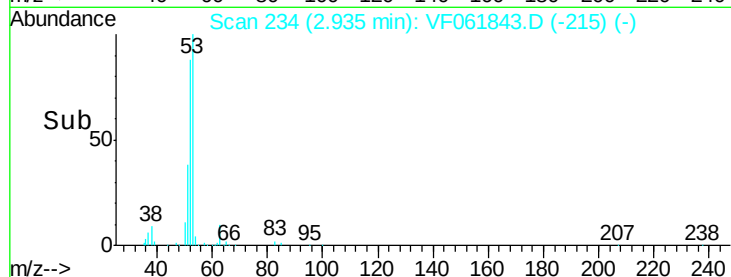
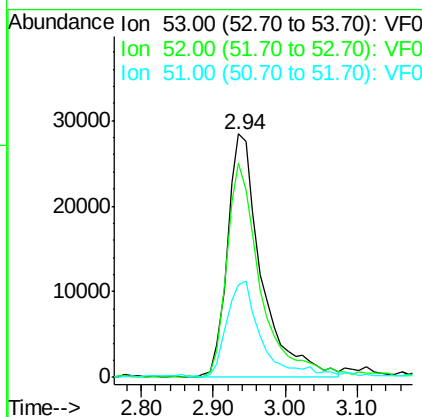
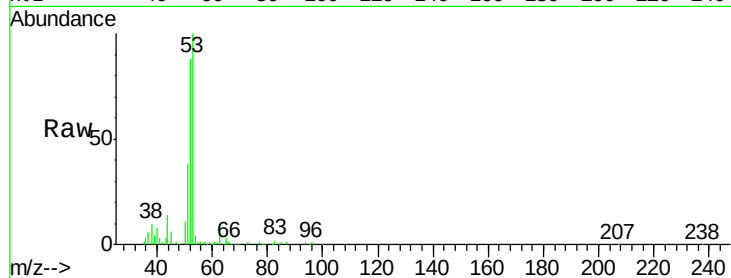
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	93492
Ion	Ratio	Lower	Upper
53	100		
52	87.8	67.4	101.0
51	38.1	30.7	46.1

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#16

Acetone

Concen: 271.852 ug/l

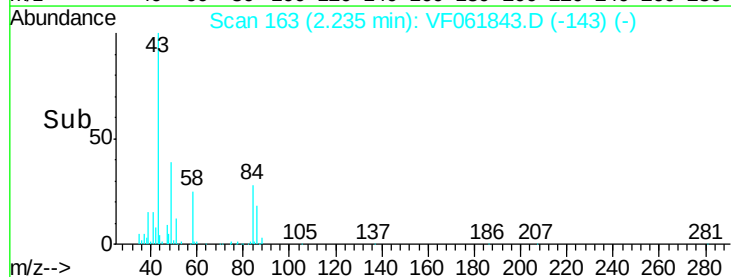
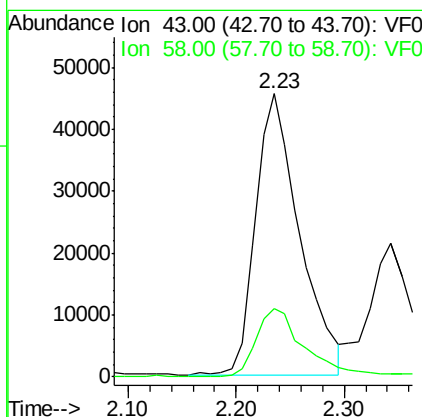
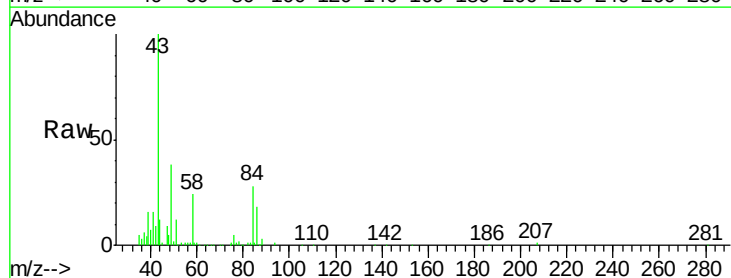
RT: 2.23 min Scan# 163

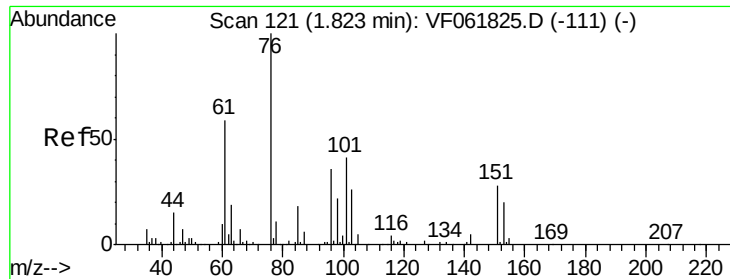
Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion:	43	Resp:	129249
Ion	Ratio	Lower	Upper
43	100		
58	23.9	20.3	30.5





#17

Carbon Disulfide

Concen: 53.031 ug/l m

RT: 1.81 min Scan# 120

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 440004

Ion Ratio Lower Upper

76 100

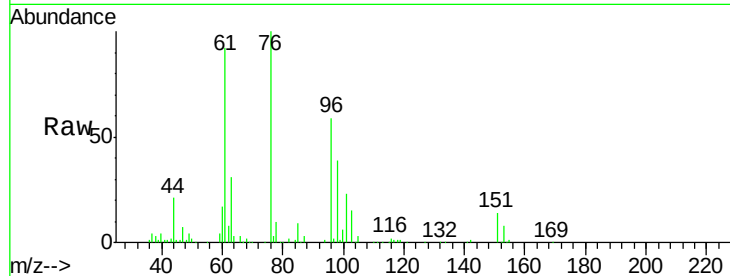
78 10.0 9.1 13.7

Manual Integrations

APPROVED

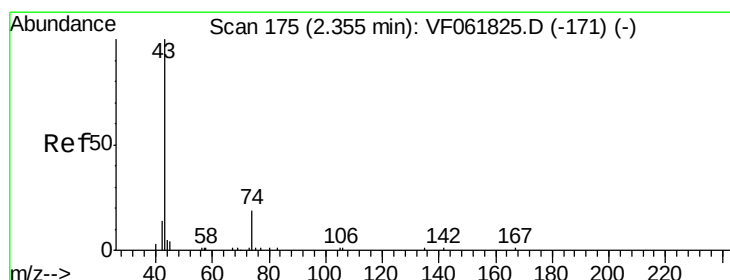
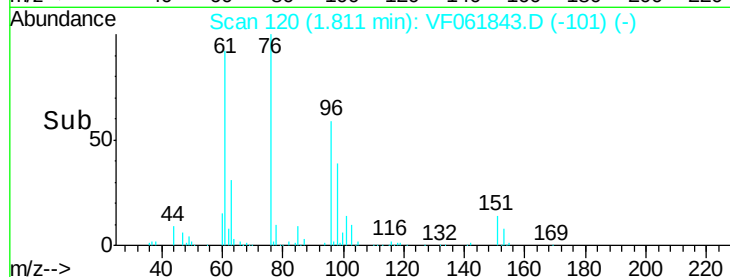
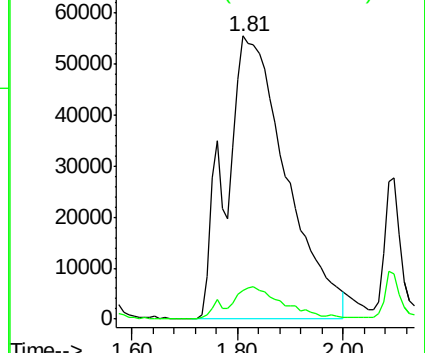
MMDadoda

3/8/2019 12:12:09 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 54.962 ug/l

RT: 2.34 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061843.D

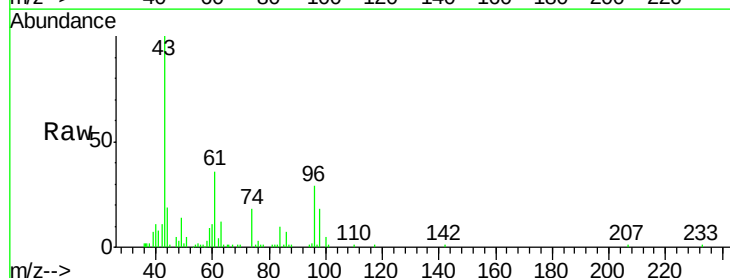
Acq: 5 Mar 2019 13:49

Tgt Ion: 43 Resp: 50403

Ion Ratio Lower Upper

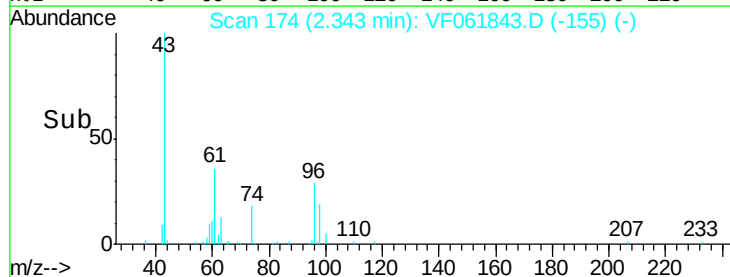
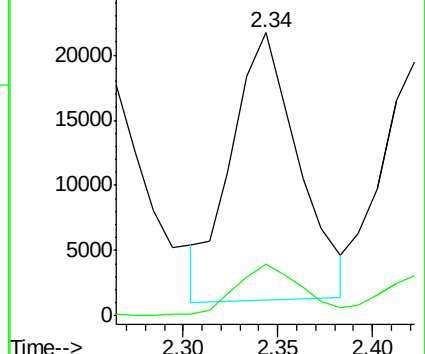
43 100

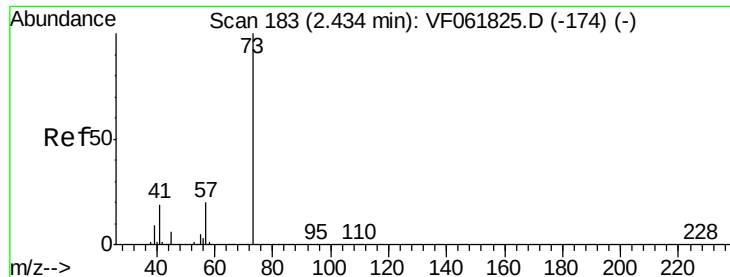
74 18.3 13.2 19.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





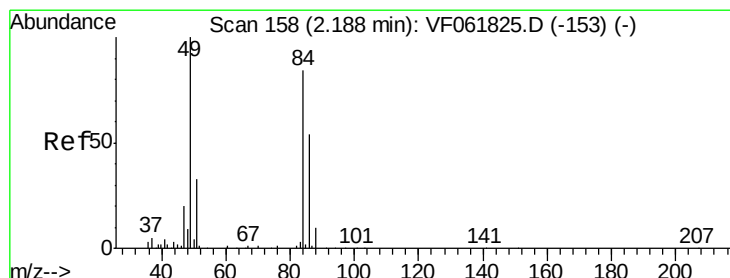
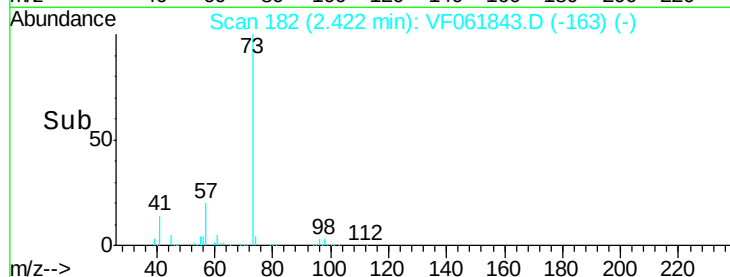
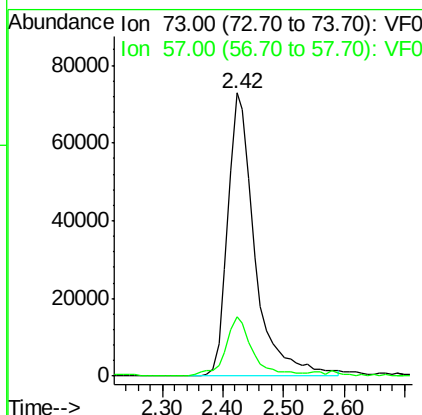
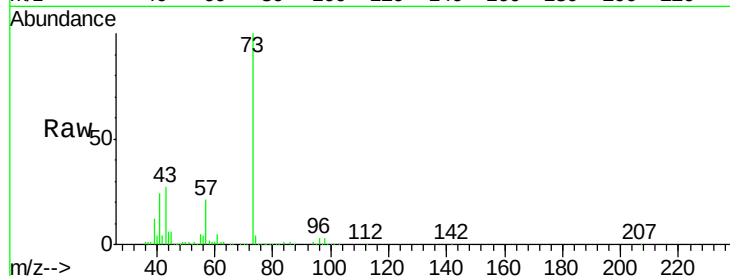
#19
Methyl tert-butyl Ether
Concen: 50.602 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	73	Resp	228172
Ion Ratio	Lower	Upper	
73	100		
57	21.0	16.1	24.1

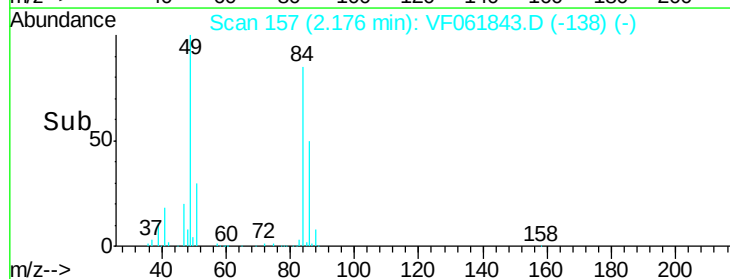
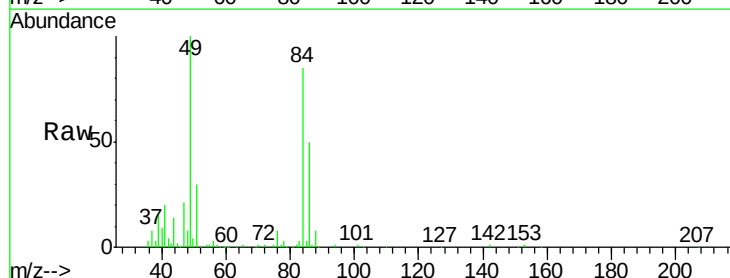
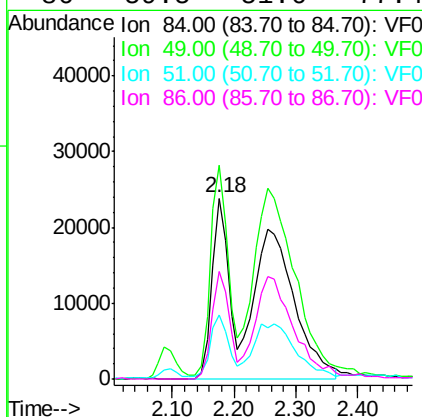
Manual Integrations
APPROVED

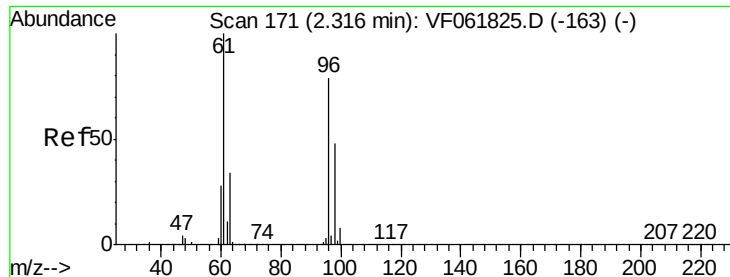
MMDadoda
3/8/2019 12:12:09 AM



#20
Methylene Chloride
Concen: 50.964 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	84	Resp	134321
Ion Ratio	Lower	Upper	
84	100		
49	117.9	96.8	145.2
51	35.6	31.8	47.6
86	59.5	51.6	77.4





#21

trans-1,2-Dichloroethene

Concen: 47.857 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

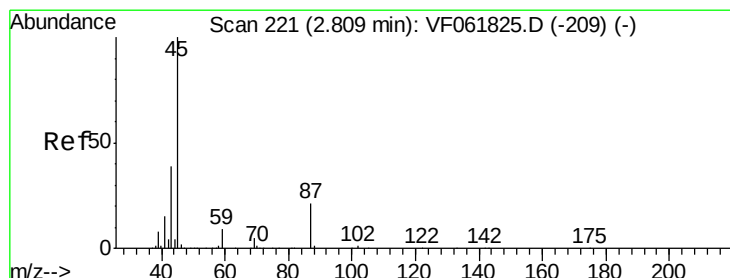
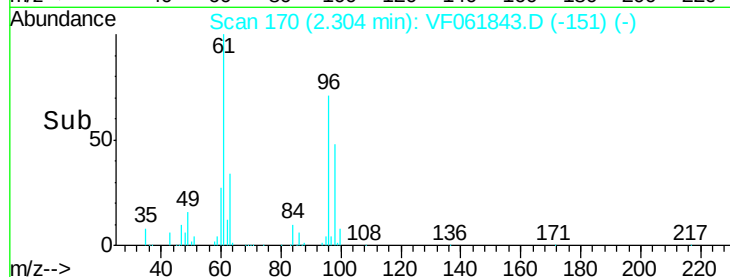
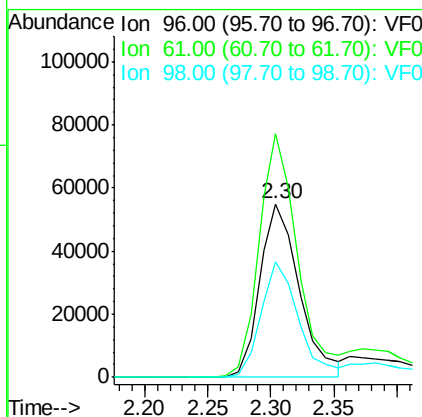
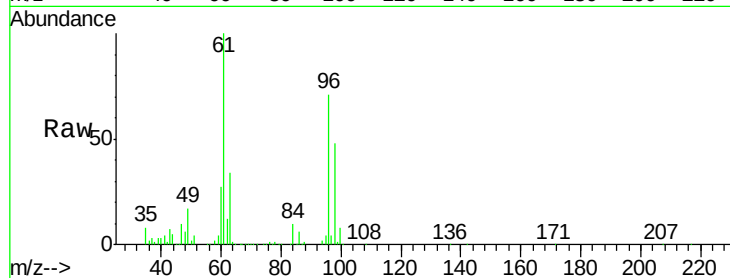
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	120058
Ion	Ratio	Lower	Upper
96	100		
61	140.4	101.0	151.6
98	66.9	48.8	73.2

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#22

Diisopropyl ether

Concen: 52.541 ug/l

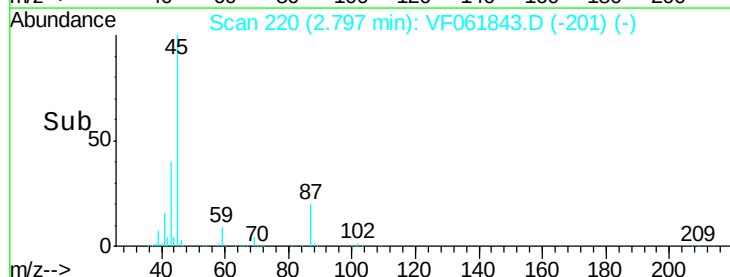
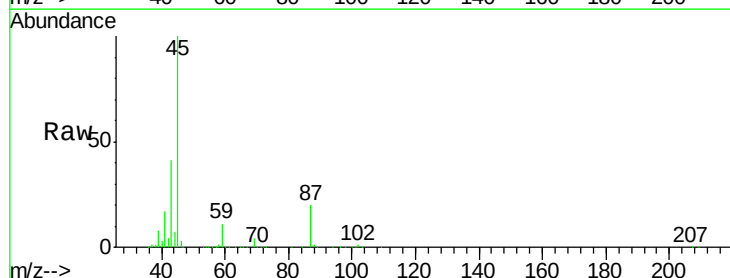
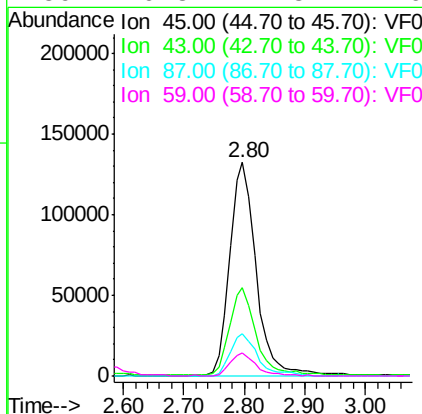
RT: 2.80 min Scan# 220

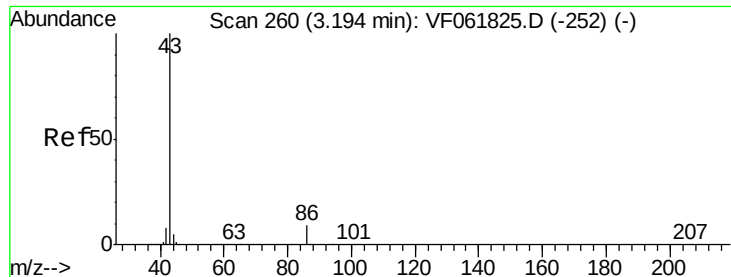
Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion:	45	Resp:	401339
Ion	Ratio	Lower	Upper
45	100		
43	41.1	31.8	47.8
87	20.0	17.1	25.7
59	10.8	7.8	11.6





#23

Vinyl Acetate

Concen: 253.182 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 863965

Ion Ratio Lower Upper

43 100

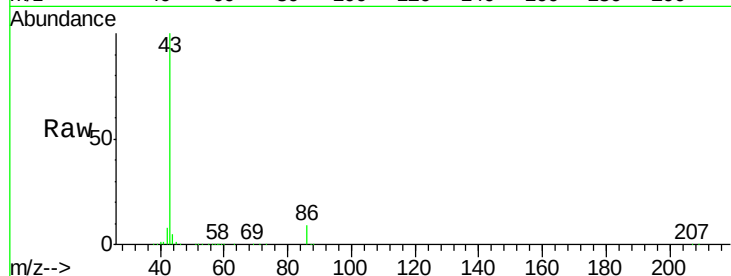
86 8.6 7.0 10.4

Manual Integrations

APPROVED

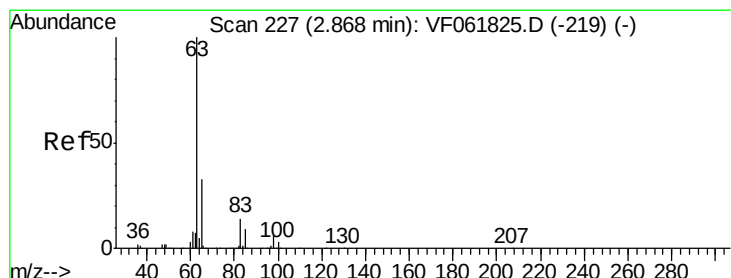
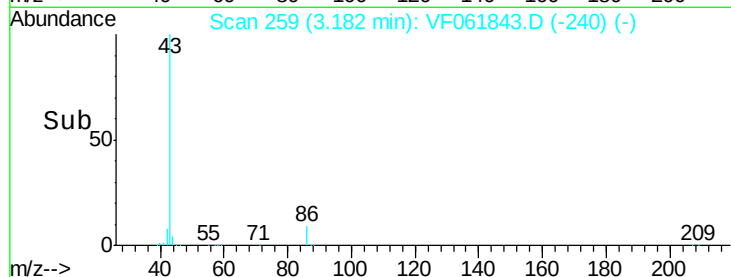
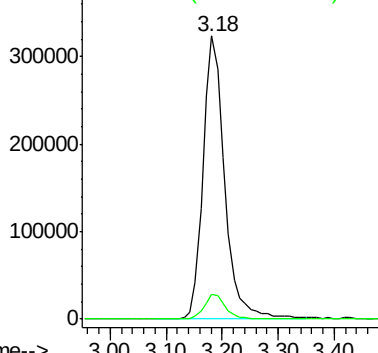
MMDadoda

3/8/2019 12:12:09 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 49.858 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

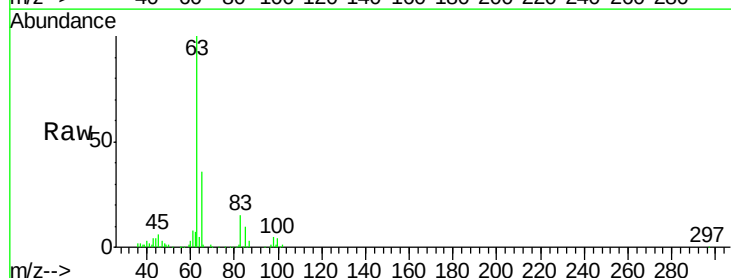
Tgt Ion: 63 Resp: 227635

Ion Ratio Lower Upper

63 100

98 4.9 2.9 8.6

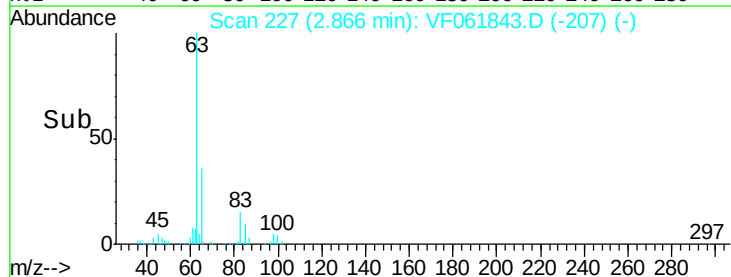
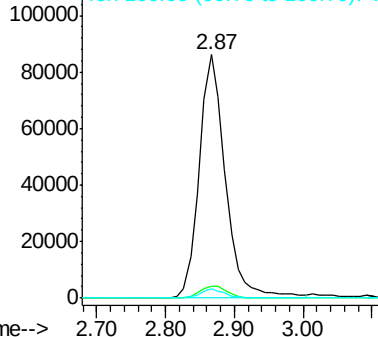
100 3.8 1.8 5.3

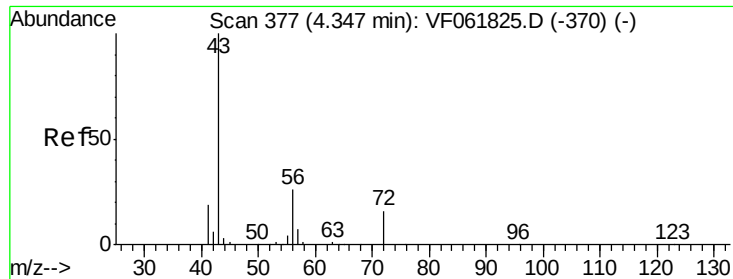


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 243.354 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 235344

Ion Ratio Lower Upper

43 100

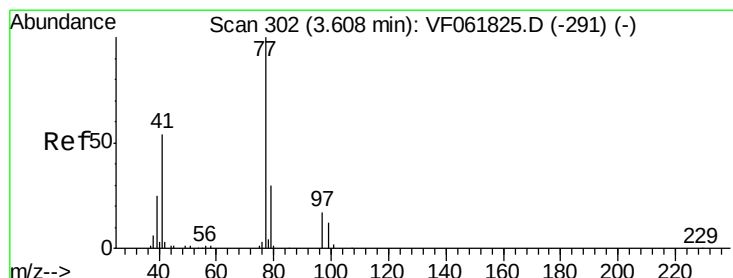
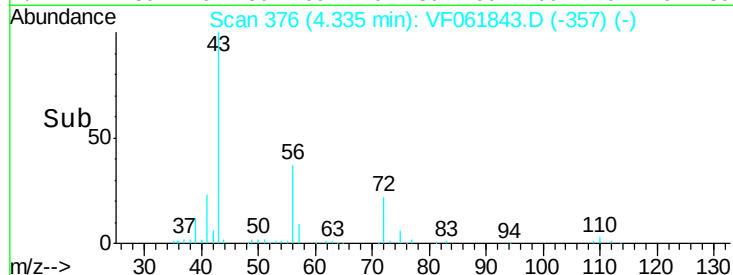
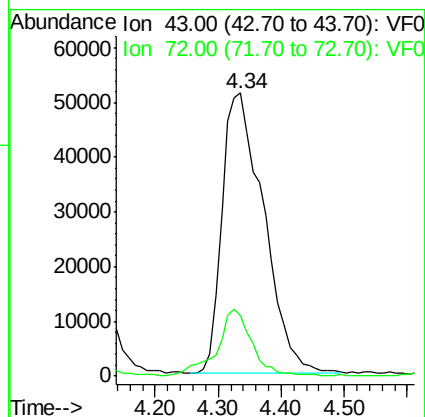
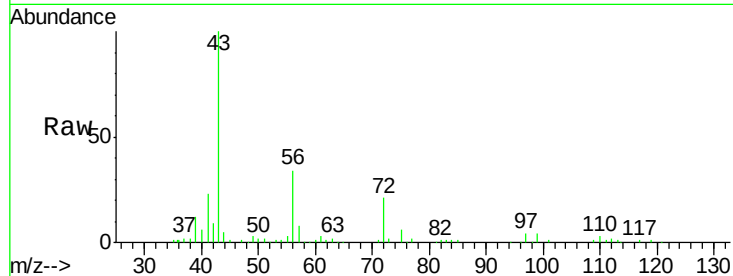
72 21.3 16.2 24.4

Manual Integrations

APPROVED

MMDadoda

3/8/2019 12:12:09 AM



#26

2,2-Dichloropropane

Concen: 51.234 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061843.D

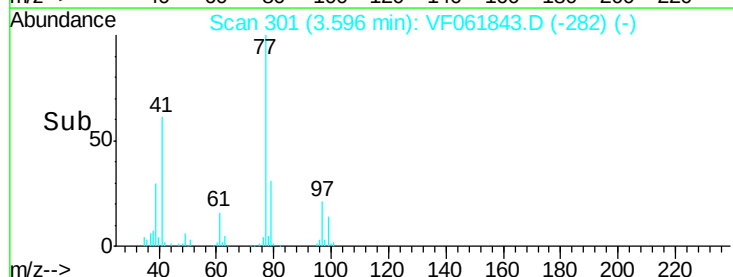
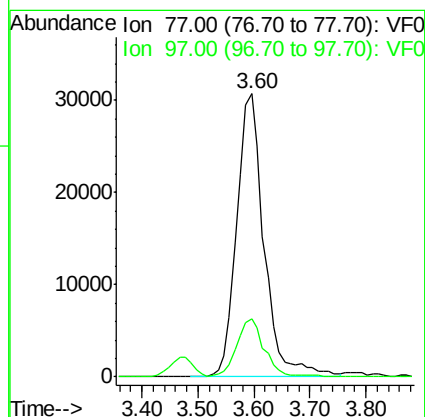
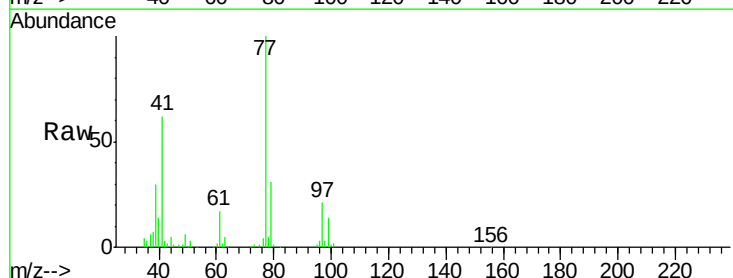
Acq: 5 Mar 2019 13:49

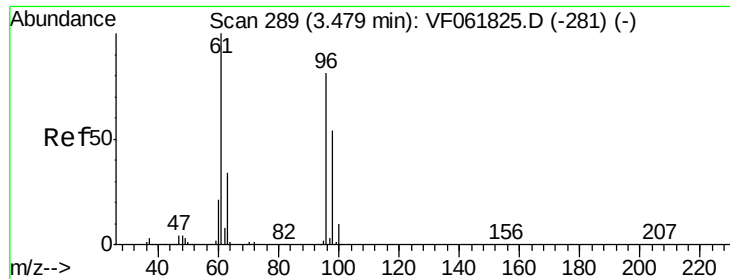
Tgt Ion: 77 Resp: 104423

Ion Ratio Lower Upper

77 100

97 20.5 10.4 31.4





#27

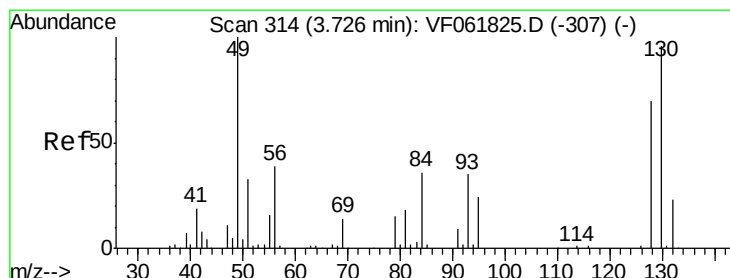
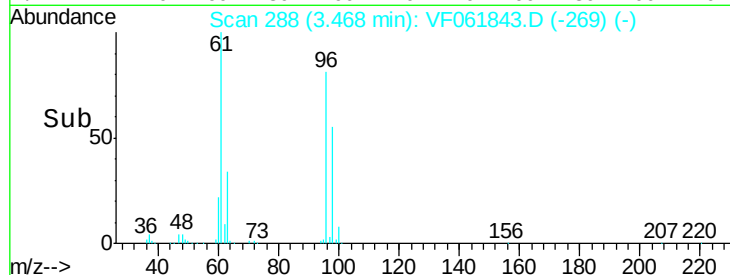
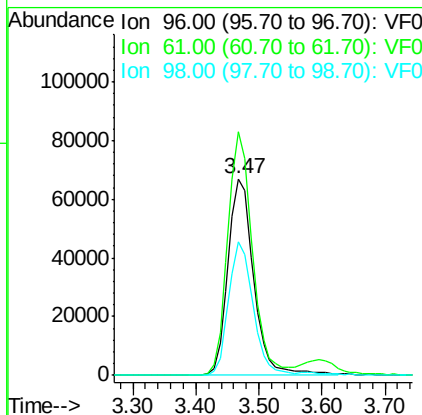
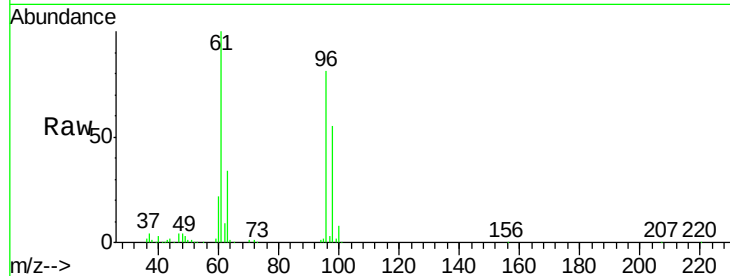
cis-1,2-Dichloroethene
Concen: 54.432 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	123.7	0.0	245.8
98	67.7	0.0	132.6

Manual Integrations
APPROVED

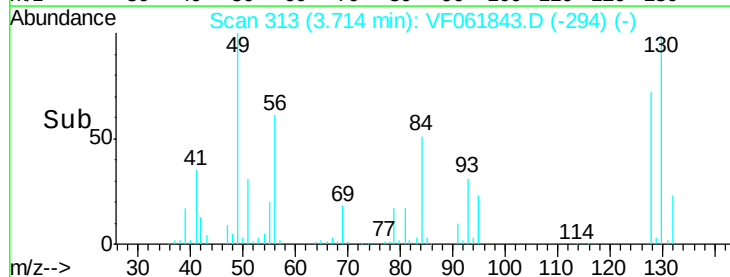
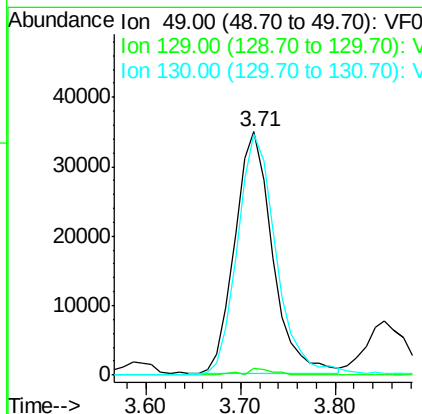
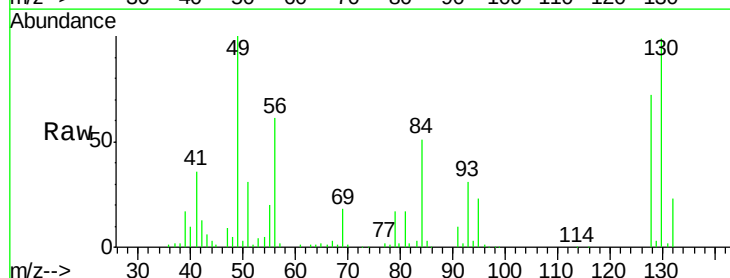
MMDadoda
3/8/2019 12:12:09 AM

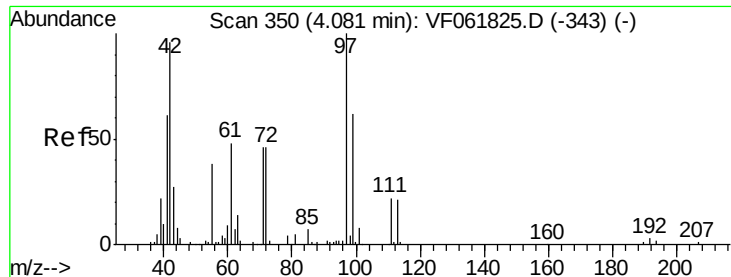


#28

Bromochloromethane
Concen: 48.047 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	0.0#
130	98.9	76.9	115.3





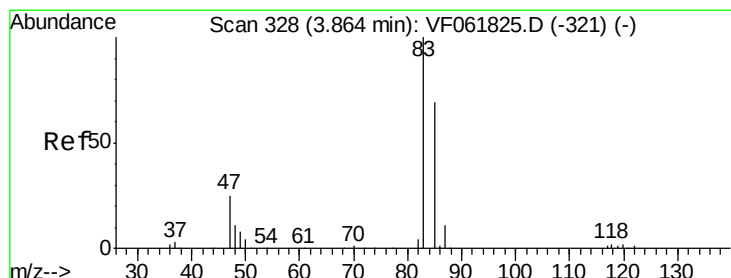
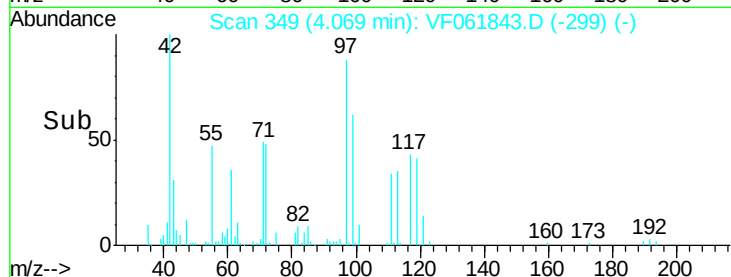
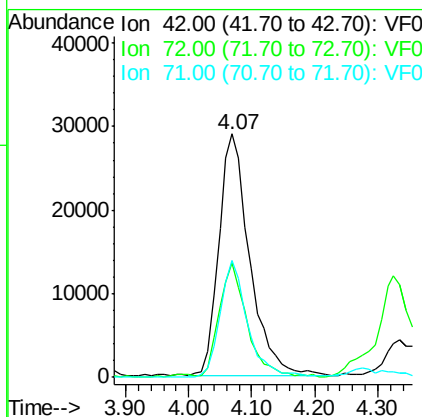
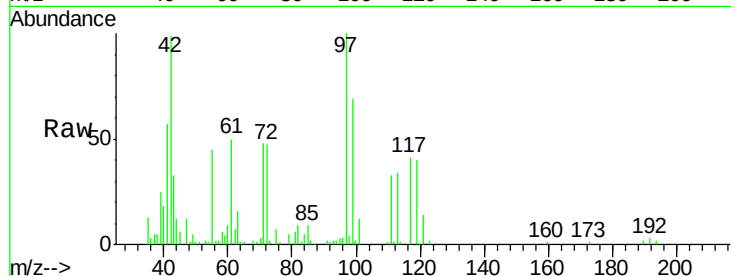
#29
Tetrahydrofuran
Concen: 236.248 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.1	34.4	51.6
71	43.4	34.6	52.0

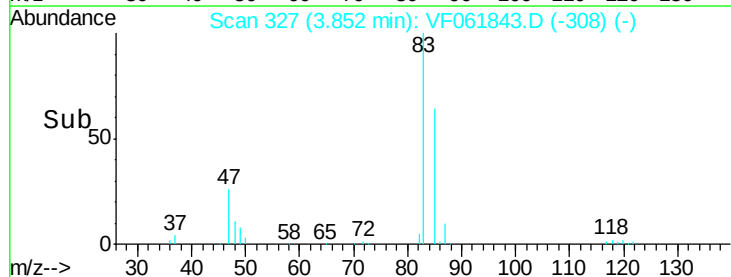
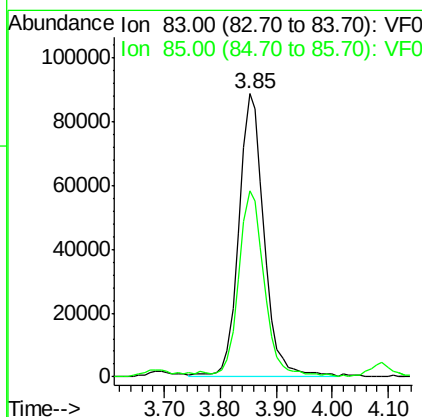
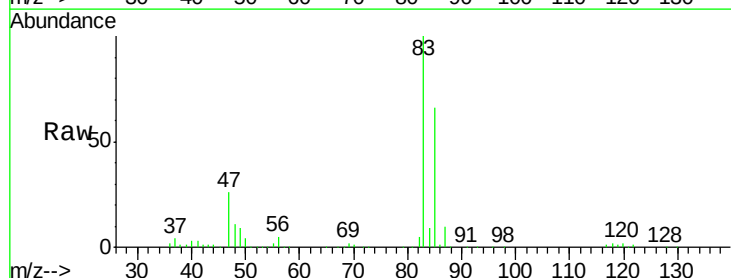
Manual Integrations
APPROVED

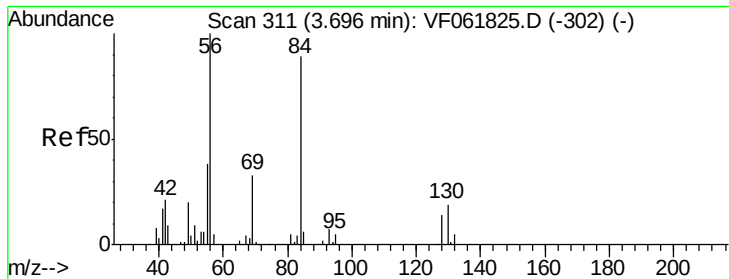
MMDadoda
3/8/2019 12:12:09 AM



#30
Chloroform
Concen: 52.287 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.6	55.3	82.9





#31

Cyclohexane

Concen: 50.849 ug/l m

RT: 3.68 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

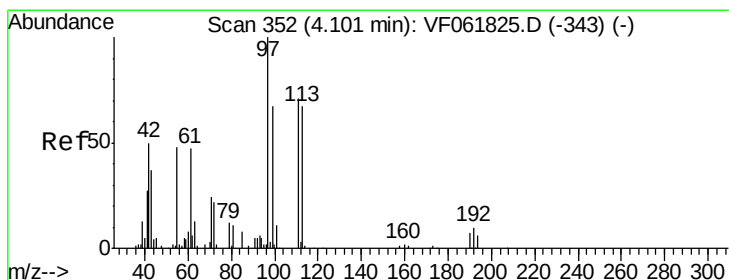
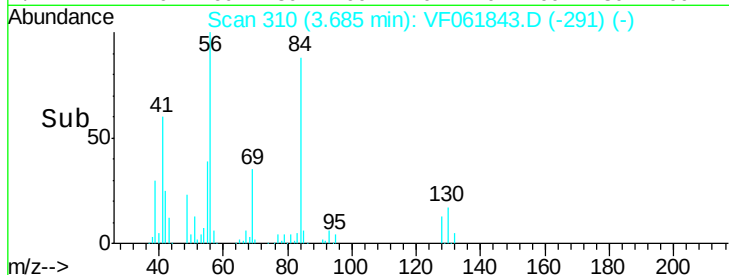
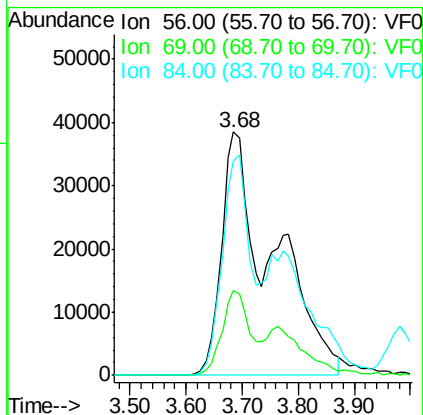
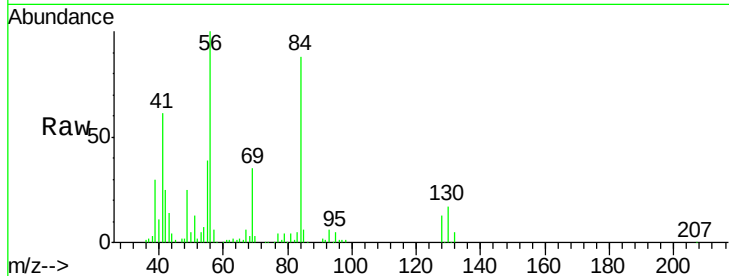
ClientSampleId :

VSTDCCC050

Tot Ion:	56	Resp:	243167
Ion	Ratio	Lower	Upper
56	100		
69	34.9	26.0	39.0
84	88.1	71.0	106.6

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#32

1,1,1-Trichloroethane

Concen: 48.411 ug/l

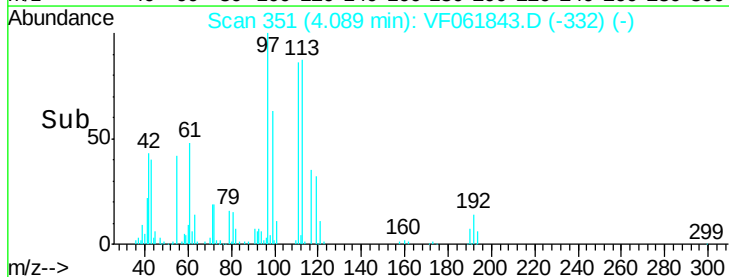
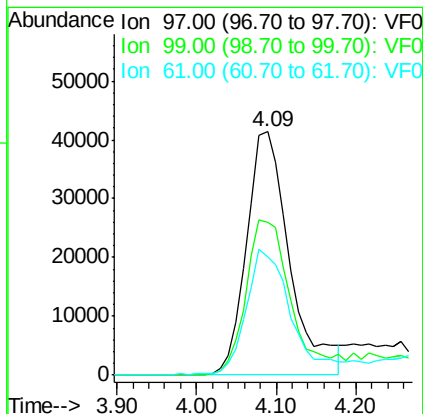
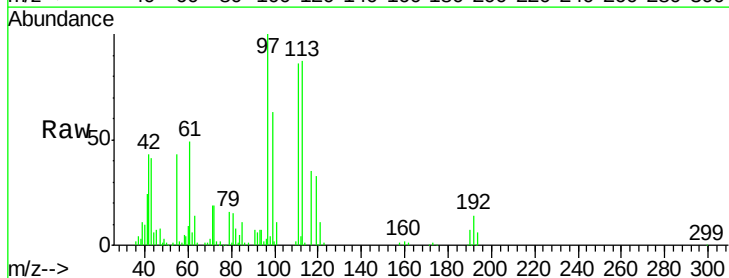
RT: 4.09 min Scan# 351

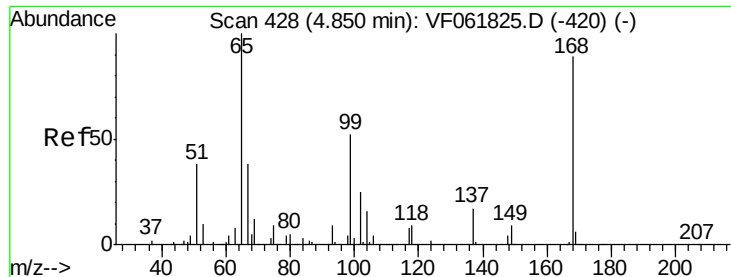
Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion:	97	Resp:	155615
Ion	Ratio	Lower	Upper
97	100		
99	62.9	53.8	80.8
61	48.6	37.9	56.9





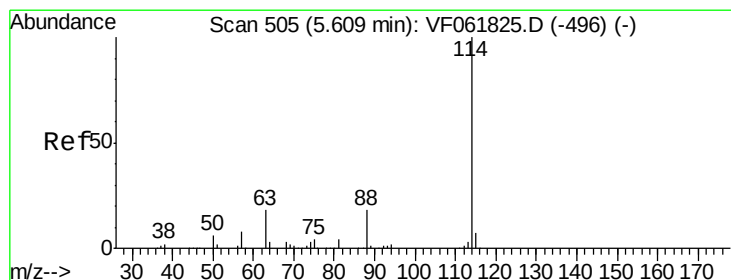
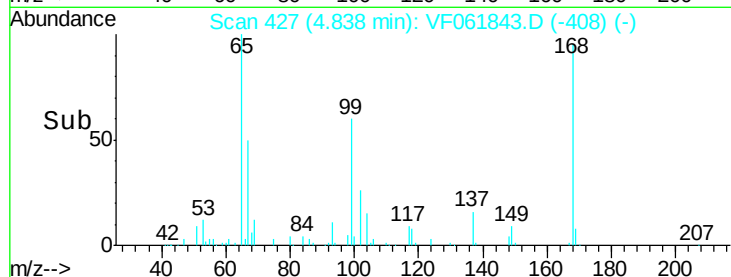
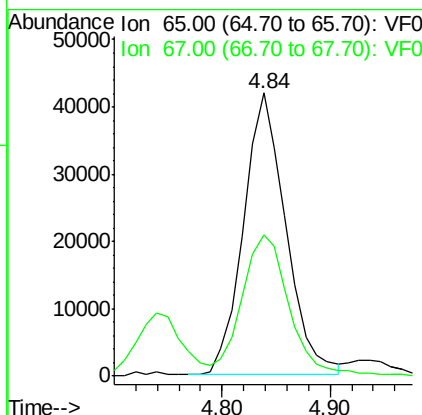
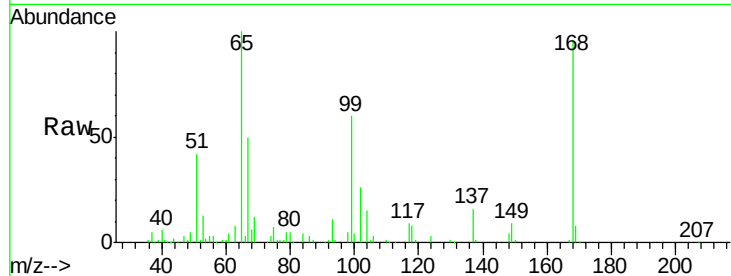
#33
 1,2-Dichloroethane-d4
 Concen: 50.338 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	114252		
67	49.9	0.0	108.6	

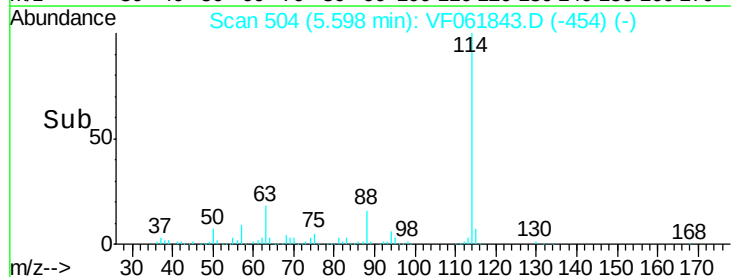
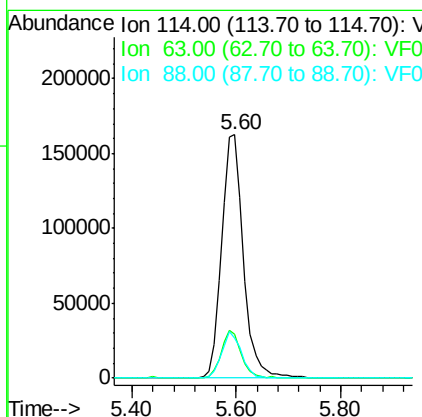
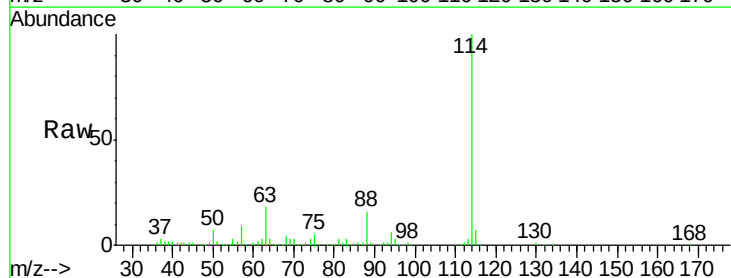
Manual Integrations
 APPROVED

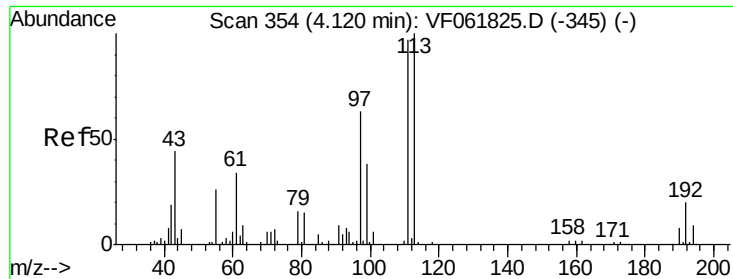
MMDadoda
 3/8/2019 12:12:09 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.01 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	469488		
63	18.3	0.0	35.6	
88	16.4	0.0	35.6	





#35

Dibromofluoromethane

Concen: 51.945 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

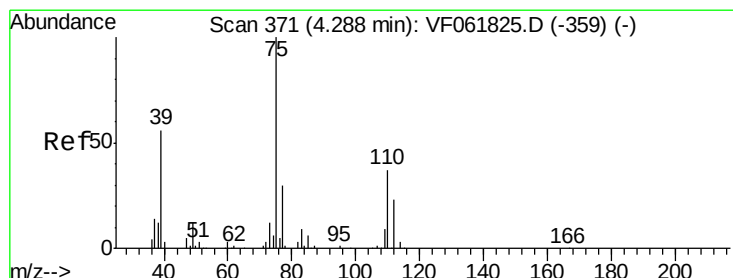
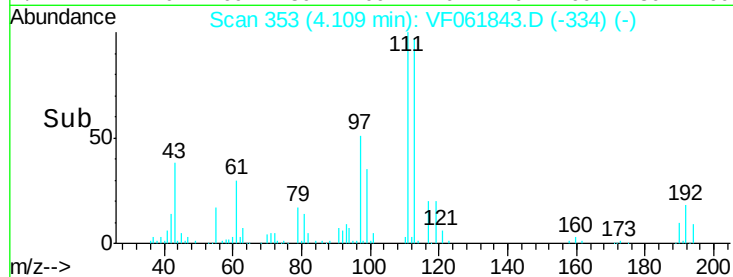
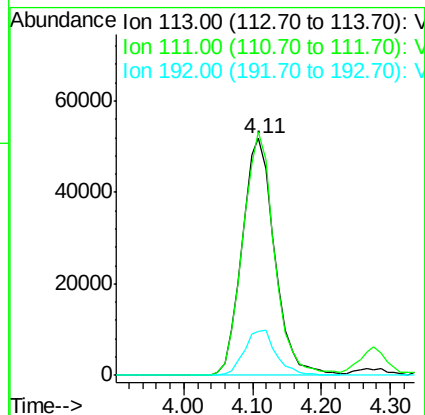
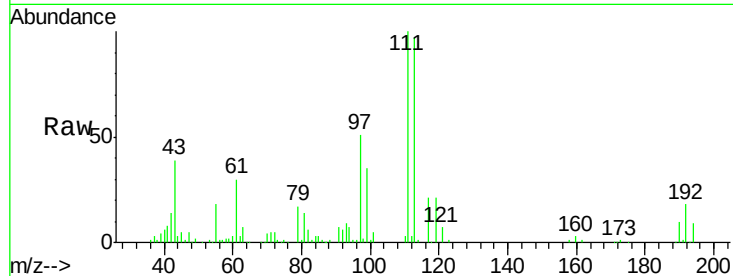
ClientSampleId :

VSTDCCC050

Tot Ion:	113	Resp:	170193
Ion Ratio	Lower	Upper	
113	100		
111	102.8	77.6	116.4
192	18.7	15.9	23.9

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#36

1,1-Dichloropropene

Concen: 51.184 ug/l

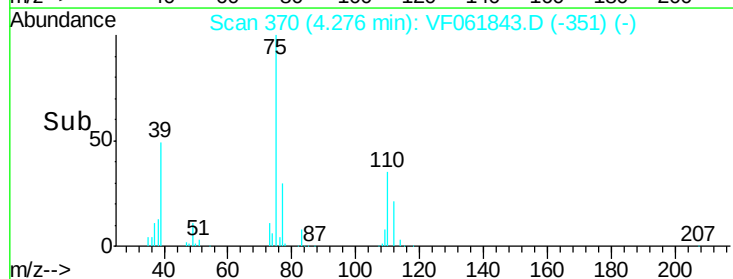
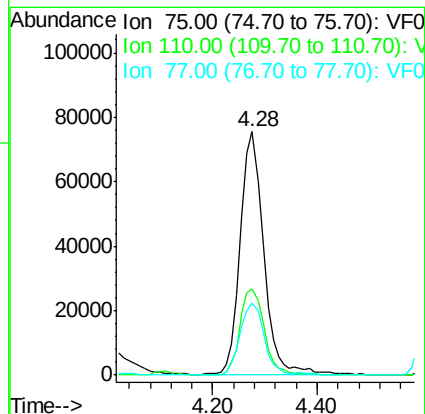
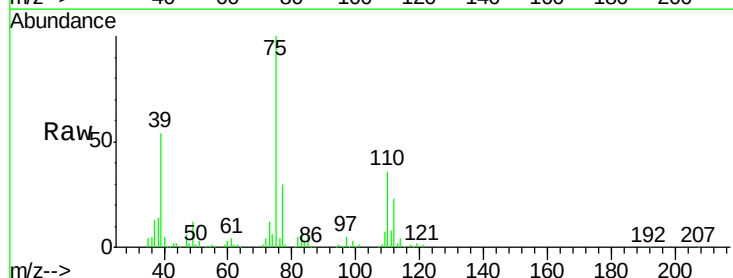
RT: 4.28 min Scan# 370

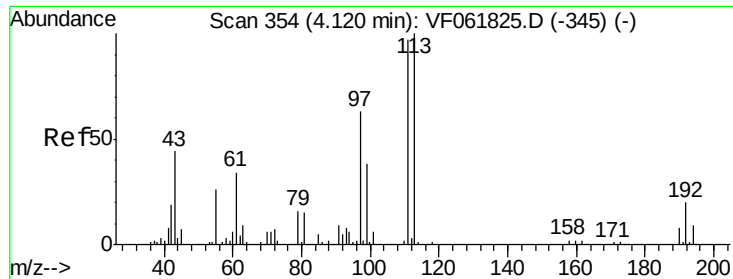
Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion:	75	Resp:	226995
Ion Ratio	Lower	Upper	
75	100		
110	35.5	18.6	55.6
77	29.6	24.2	36.2





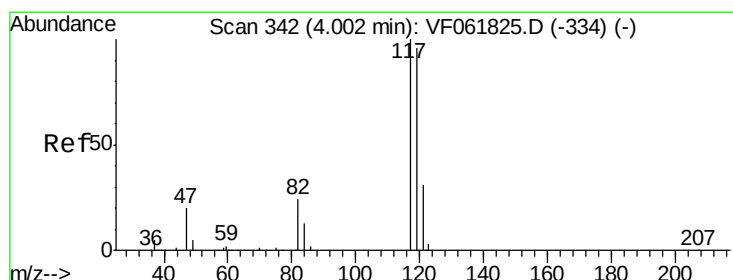
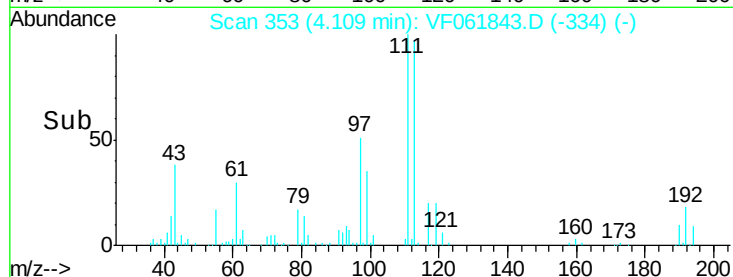
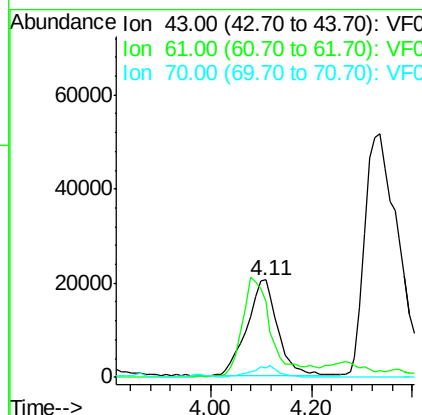
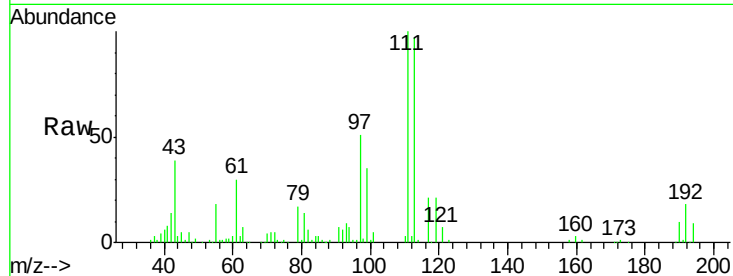
#37
Ethyl Acetate
Concen: 46.992 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	43	61	70	Ratio	Lower	Upper
43	100					
61	77.2	60.7				91.1
70	10.0	10.6				15.8#

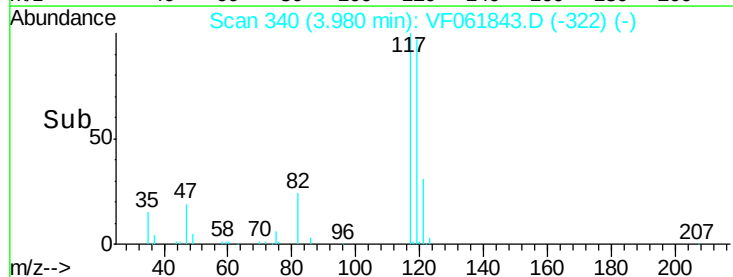
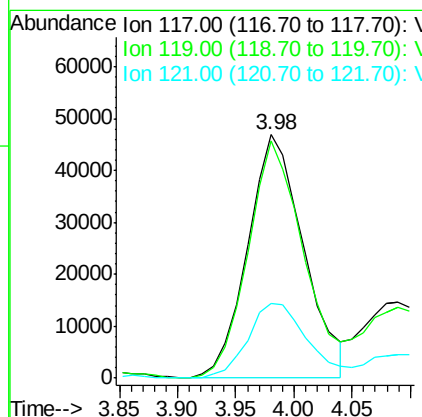
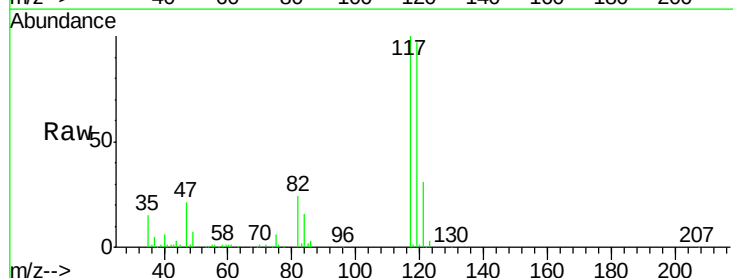
Manual Integrations
APPROVED

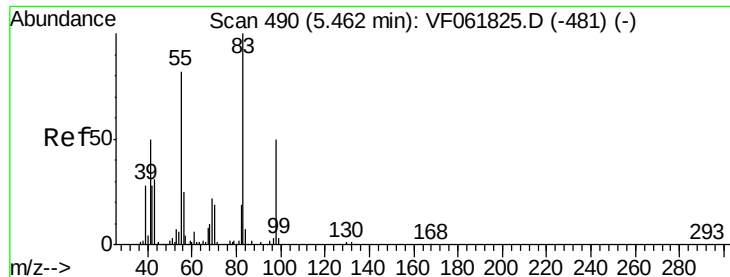
MMDadoda
3/8/2019 12:12:09 AM



#38
Carbon Tetrachloride
Concen: 49.759 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	117	119	121	Ratio	Lower	Upper
117	100					
119	97.5	76.6				114.8
121	30.8	24.4				36.6





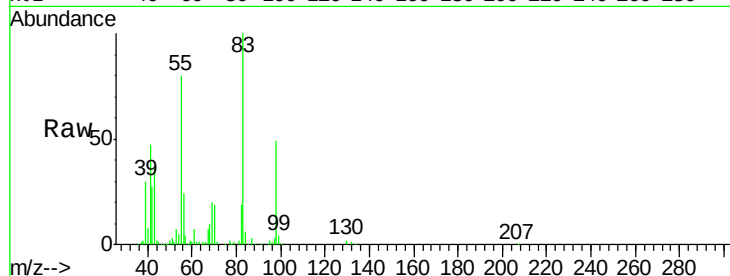
#39
Methylvlcyclohexane
Concen: 52.881 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

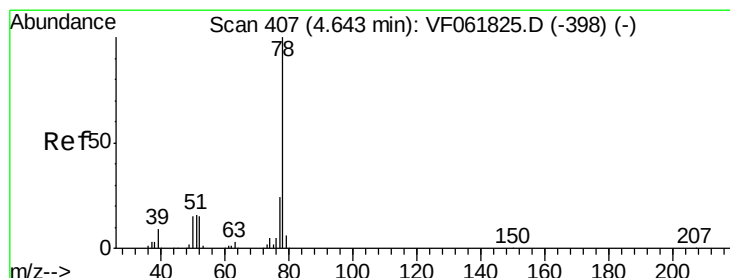
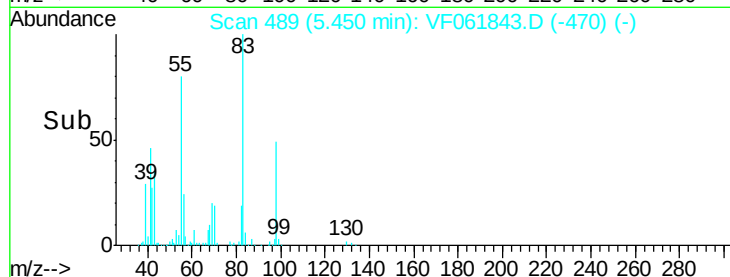
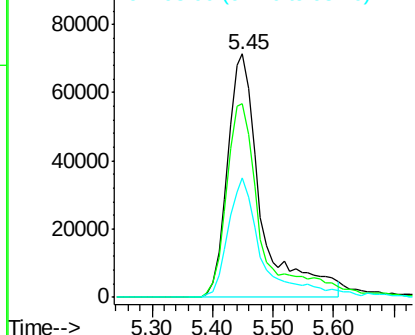
Tot Ion	Ratio	Lower	Upper
83	100		
55	79.6	66.0	99.0
98	48.9	39.8	59.6

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM

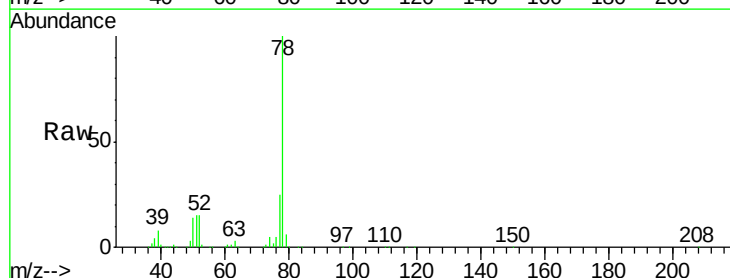


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

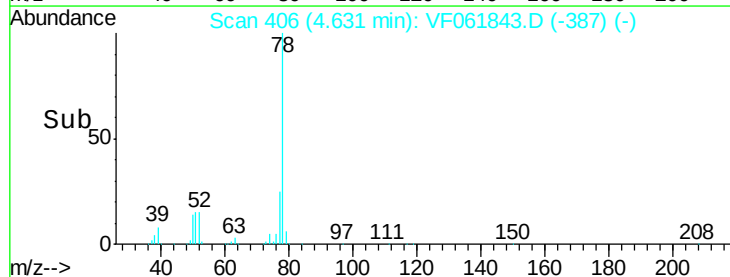
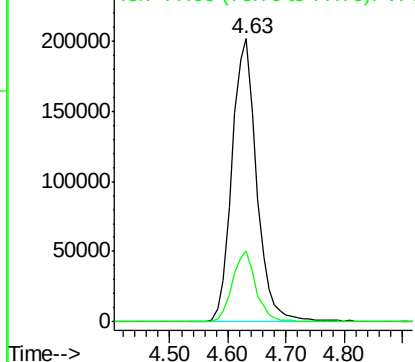


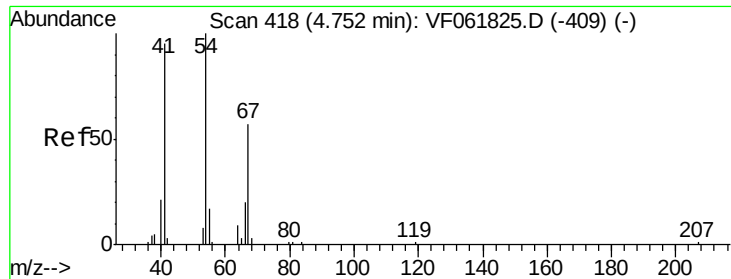
#40
Benzene
Concen: 51.372 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	19.5	29.3



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0





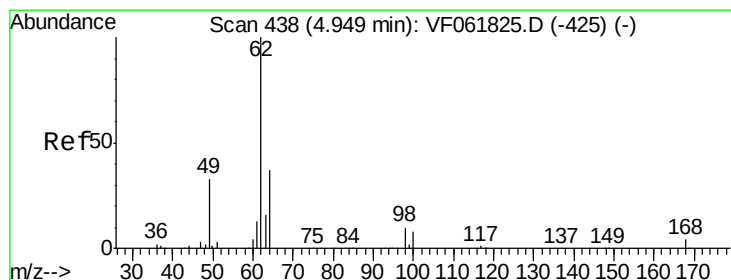
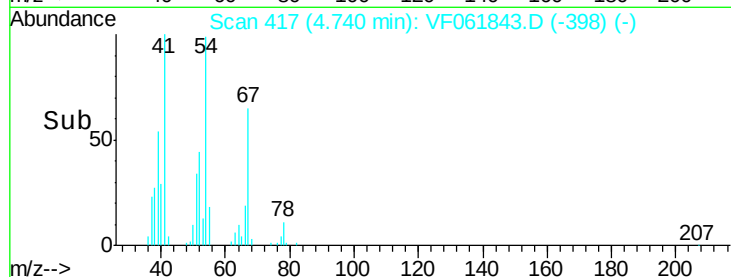
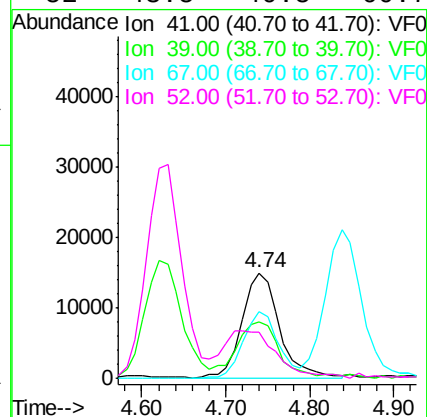
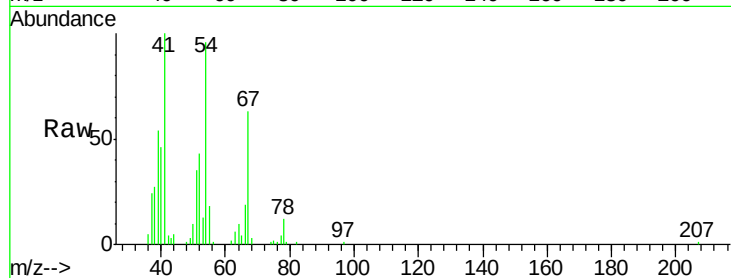
#41
Methacrylonitrile
Concen: 45.594 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.9	43.0	64.6	
67	63.2	47.8	71.8	
52	43.5	40.5	60.7	

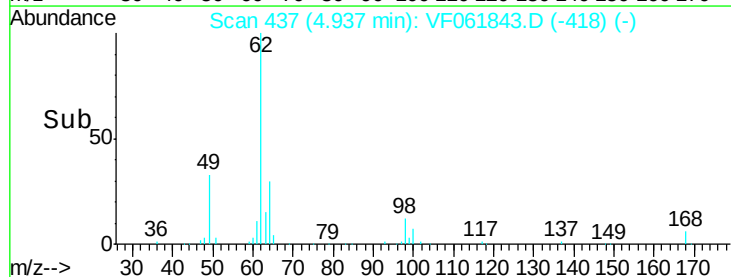
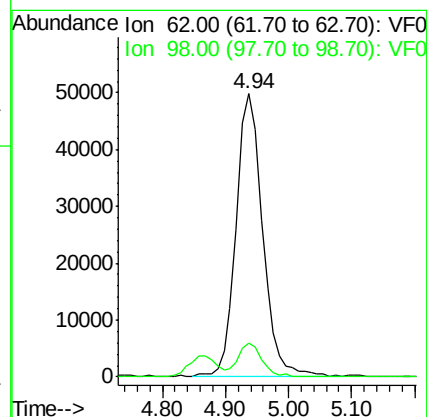
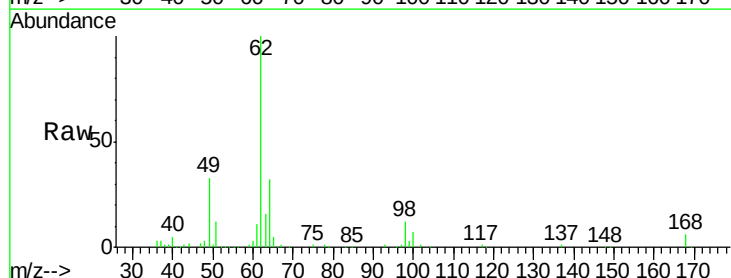
Manual Integrations
APPROVED

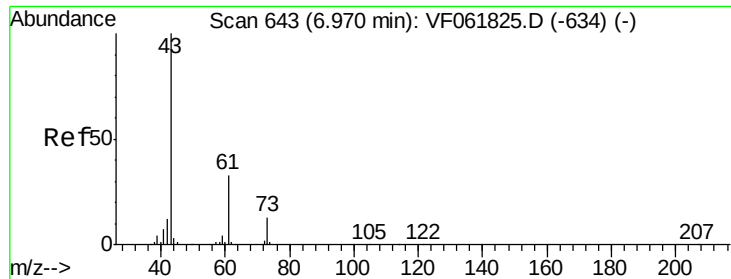
MMDadoda
3/8/2019 12:12:09 AM



#42
1,2-Dichloroethane
Concen: 50.327 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	11.8	0.0	21.0	





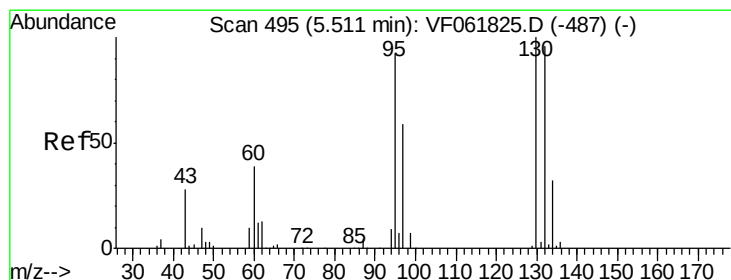
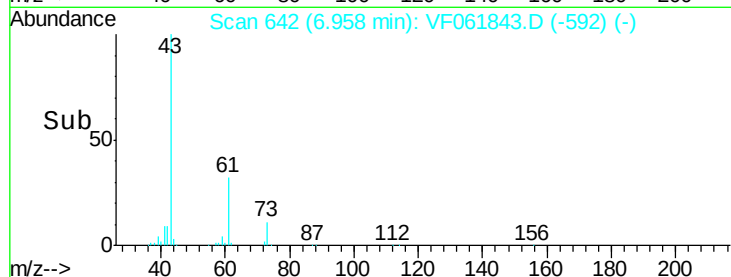
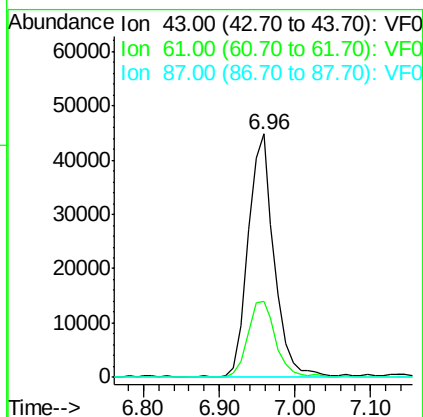
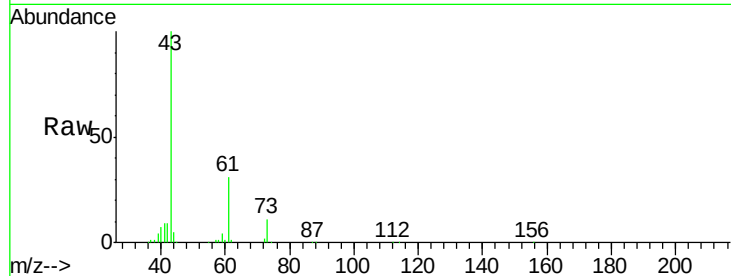
#43
Isopropyl Acetate
Concen: 46.838 ug/l
RT: 6.96 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.4	26.1	39.1
87	0.3	0.0	0.0

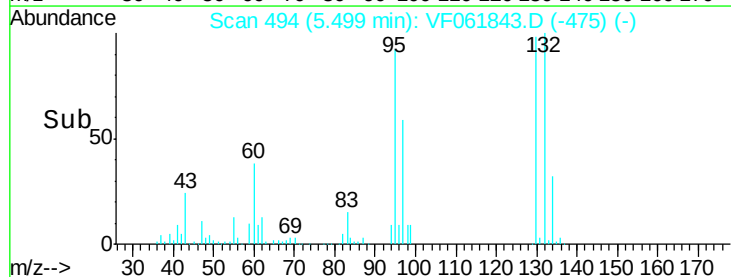
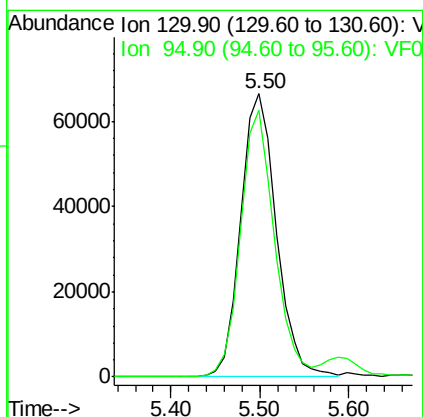
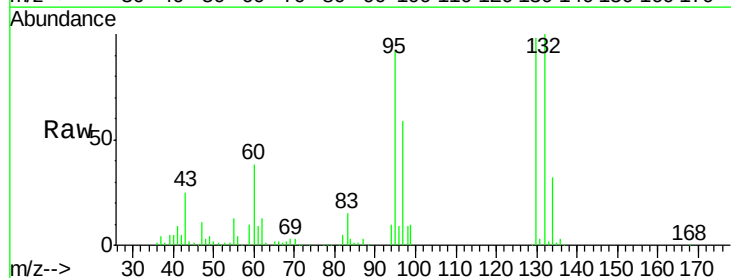
Manual Integrations
APPROVED

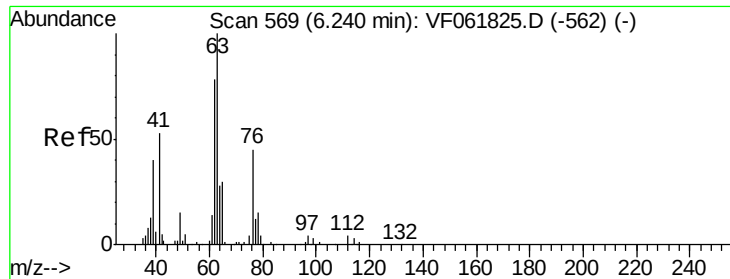
MMDadoda
3/8/2019 12:12:09 AM



#44
Trichloroethene
Concen: 51.238 ug/l
RT: 5.50 min Scan# 494
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.4	0.0	184.0





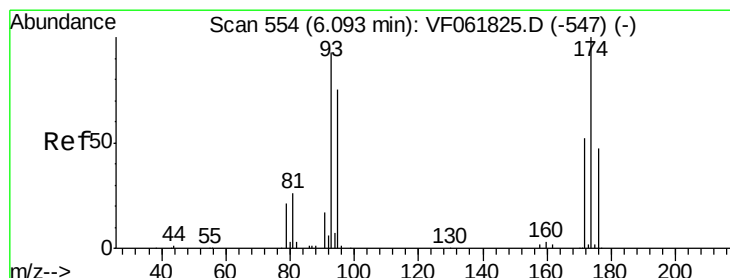
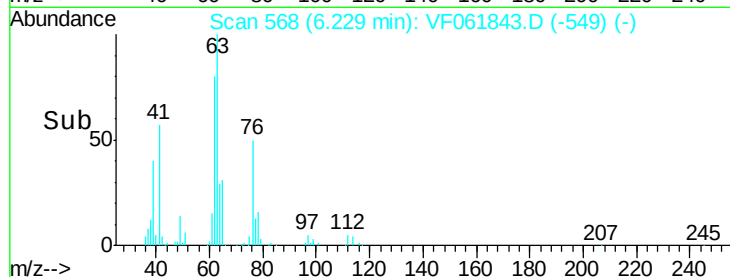
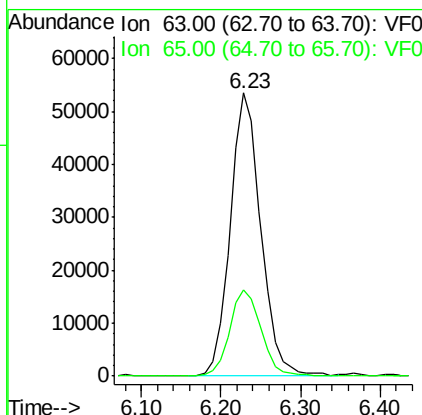
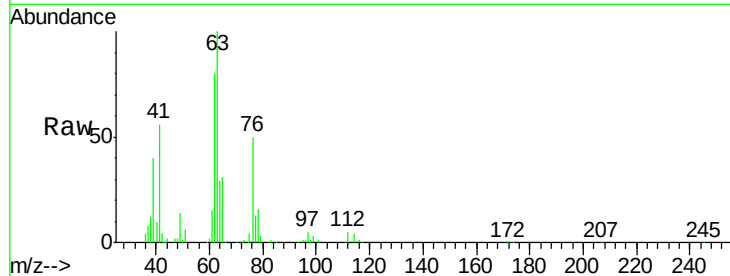
#45
 1,2-Dichloropropane
 Concen: 51.942 ug/l
 RT: 6.23 min Scan# 568
 Delta R.T. -0.01 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 63 Resp: 143179
 Ion Ratio Lower Upper
 63 100
 65 30.7 24.0 36.0

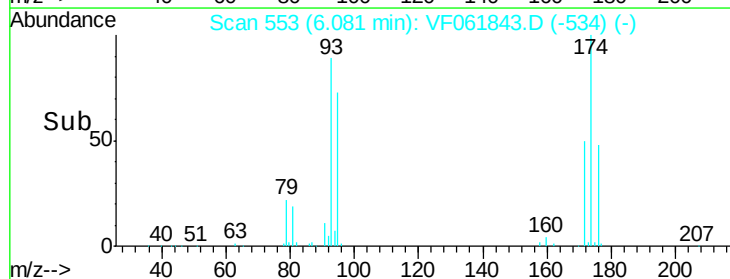
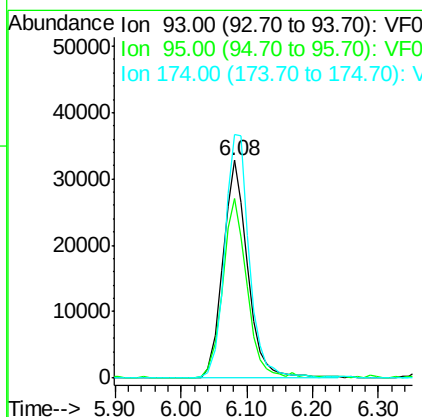
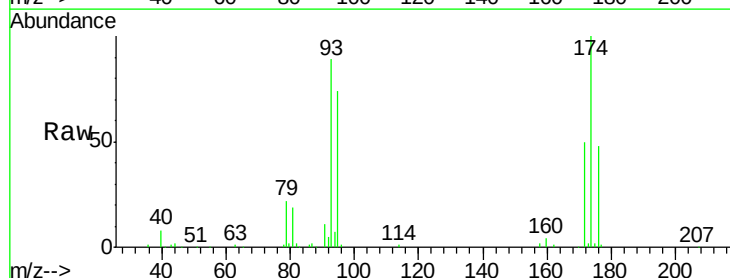
Manual Integrations
 APPROVED

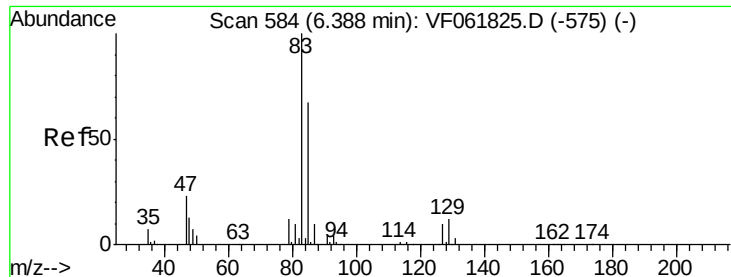
MMDadoda
 3/8/2019 12:12:09 AM



#46
 Dibromomethane
 Concen: 49.774 ug/l
 RT: 6.08 min Scan# 553
 Delta R.T. -0.01 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Tgt Ion: 93 Resp: 86351
 Ion Ratio Lower Upper
 93 100
 95 82.8 64.4 96.6
 174 111.9 85.8 128.6





#47

Bromodichloromethane

Concen: 50.370 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

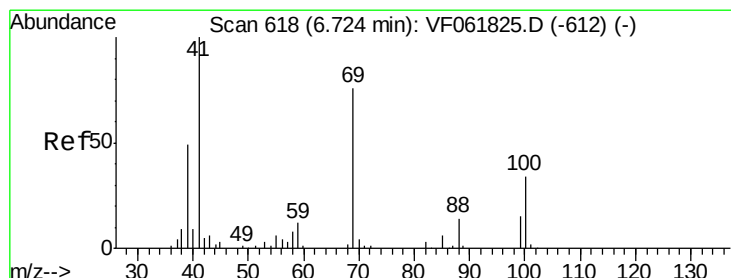
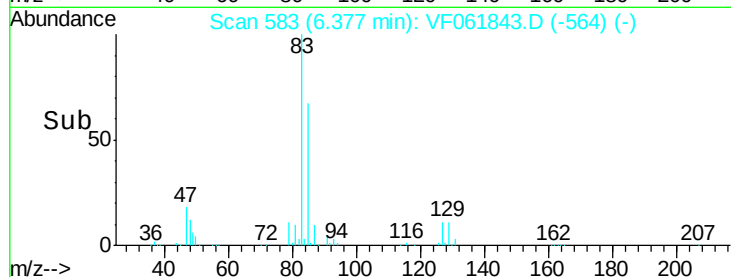
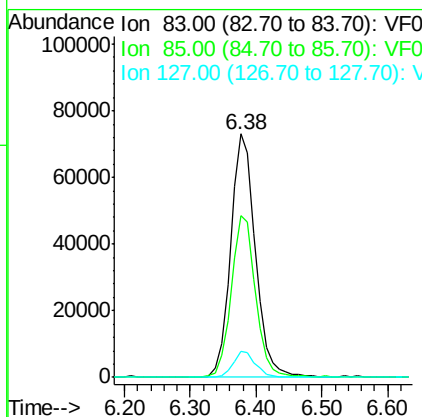
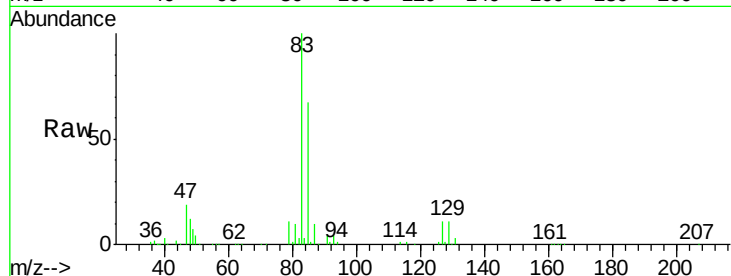
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	193056
Ion Ratio	Lower	Upper	
83	100		
85	66.6	53.6	80.4
127	10.5	8.1	12.1

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#48

Methyl methacrylate

Concen: 46.502 ug/l

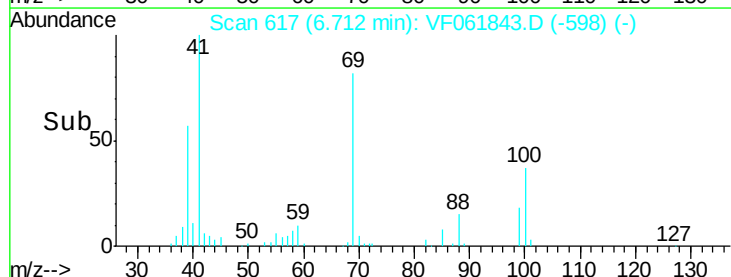
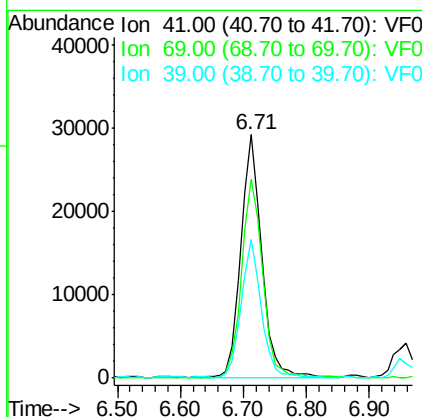
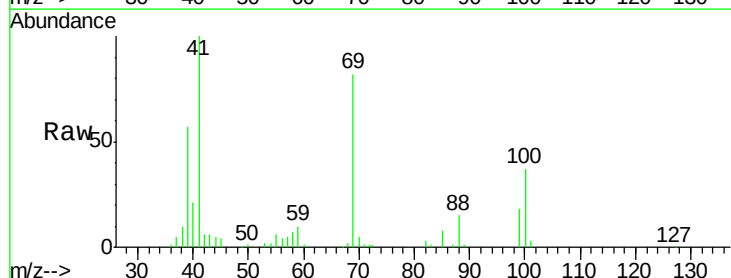
RT: 6.71 min Scan# 617

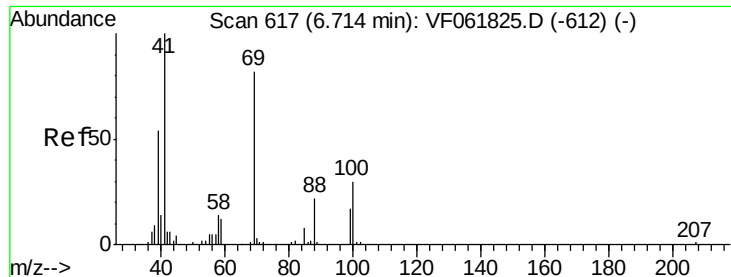
Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion:	41	Resp:	67528
Ion Ratio	Lower	Upper	
41	100		
69	81.6	60.4	90.6
39	56.8	39.7	59.5





#49

1,4-Dioxane

Concen: 982.078 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

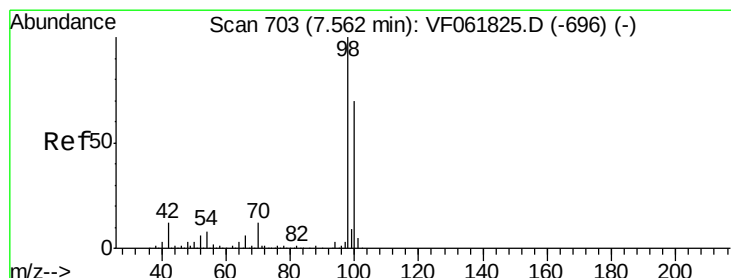
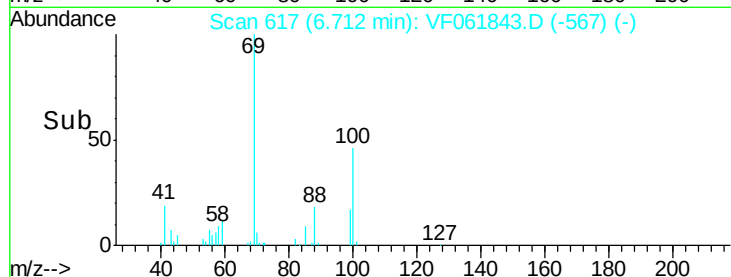
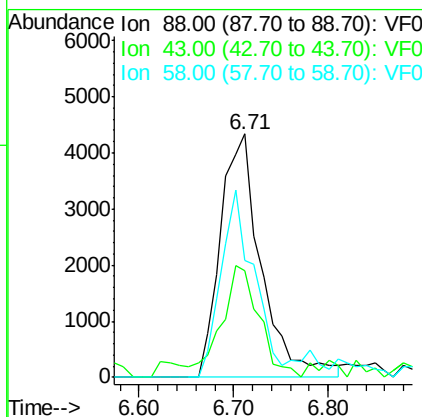
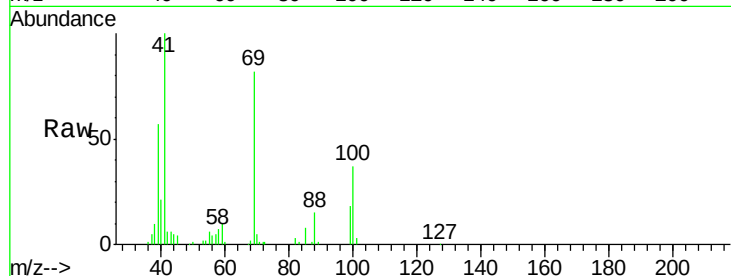
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	13037
Ion	Ratio	Lower	Upper
88	100		
43	43.6	28.4	42.6#
58	48.0	50.7	76.1#

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#50

Toluene-d8

Concen: 50.984 ug/l

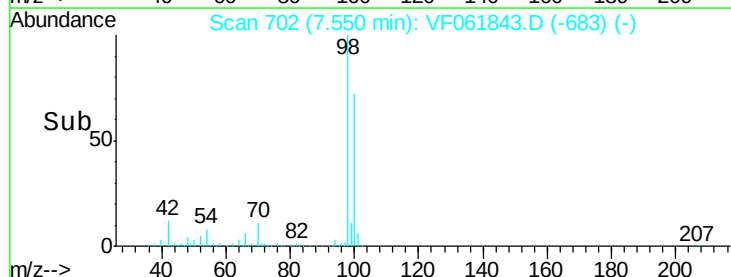
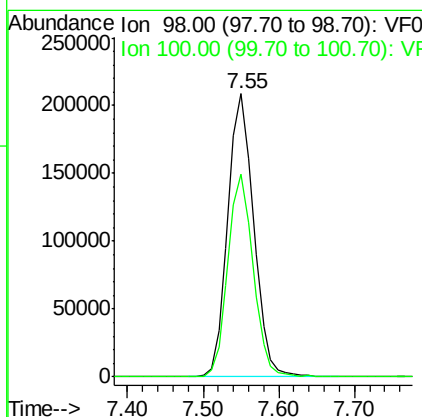
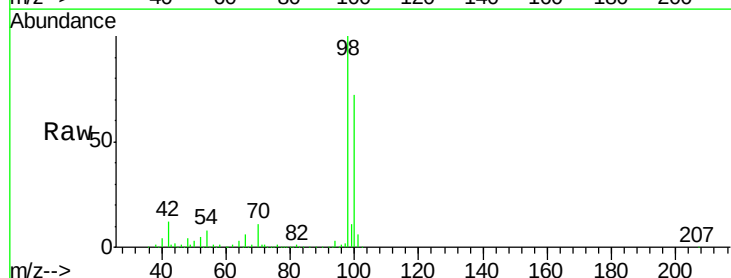
RT: 7.55 min Scan# 702

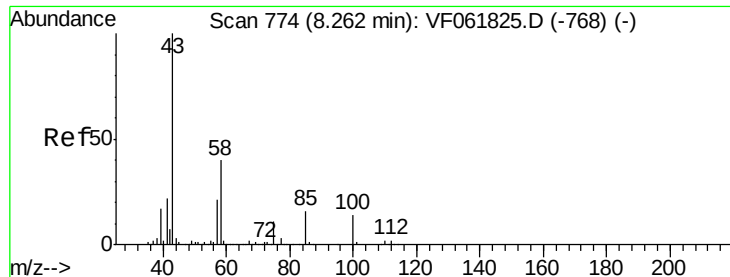
Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion:	98	Resp:	496503
Ion	Ratio	Lower	Upper
98	100		
100	71.7	56.0	84.0





#51

4-Methyl-2-Pentanone

Concen: 236.696 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 375364

Ion Ratio Lower Upper

43 100

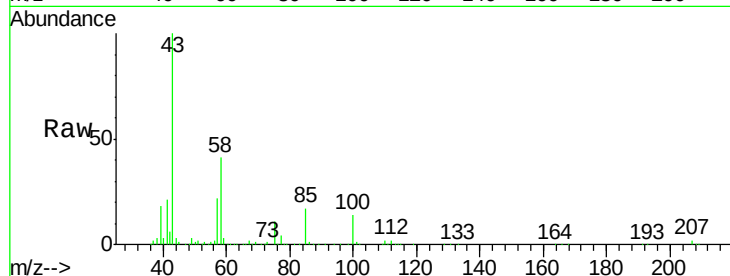
58 41.5 31.8 47.8

Manual Integrations

APPROVED

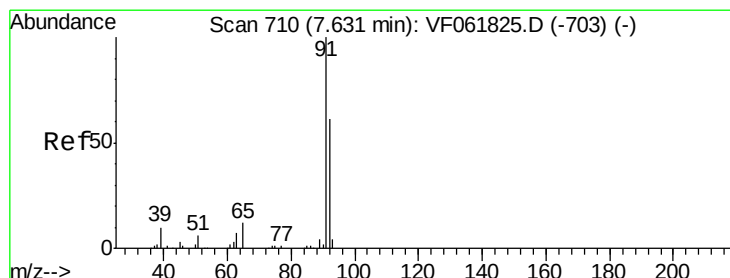
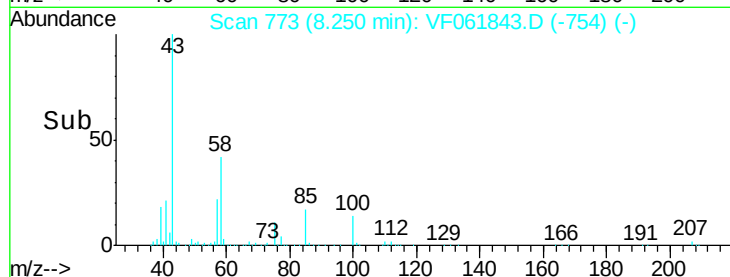
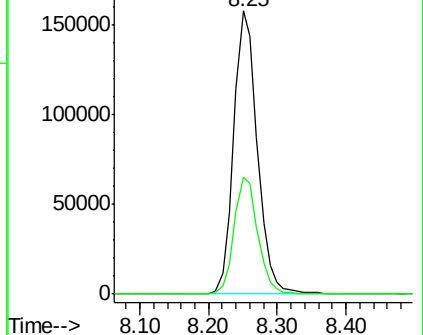
MMDadoda

3/8/2019 12:12:09 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 51.352 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061843.D

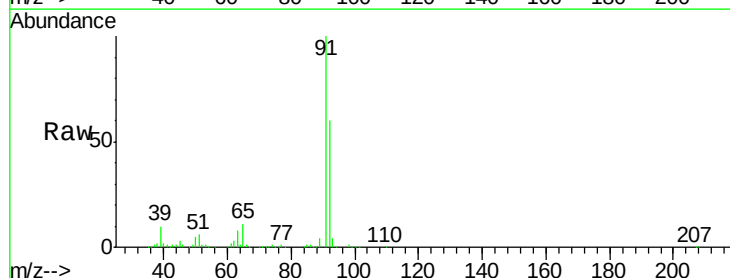
Acq: 5 Mar 2019 13:49

Tgt Ion: 92 Resp: 352152

Ion Ratio Lower Upper

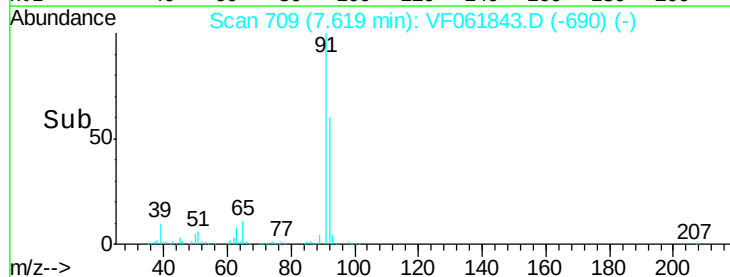
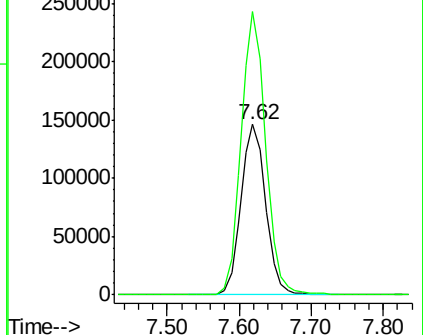
92 100

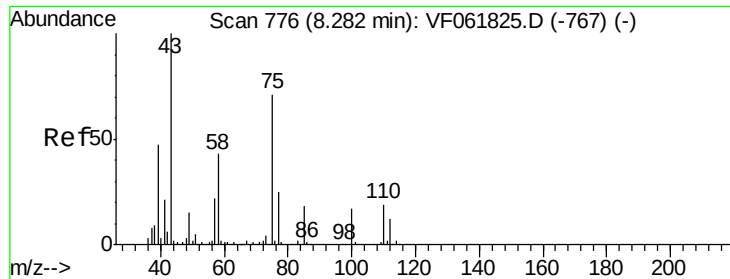
91 166.1 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





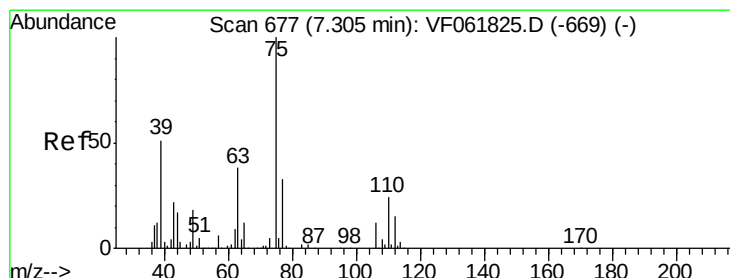
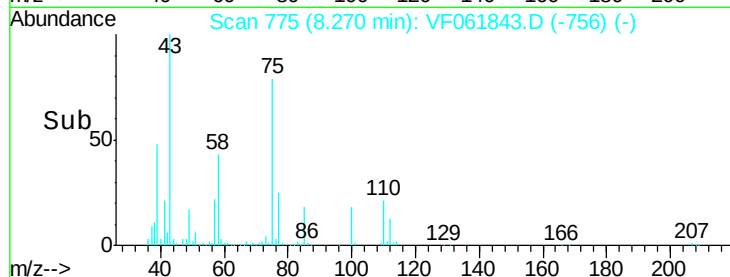
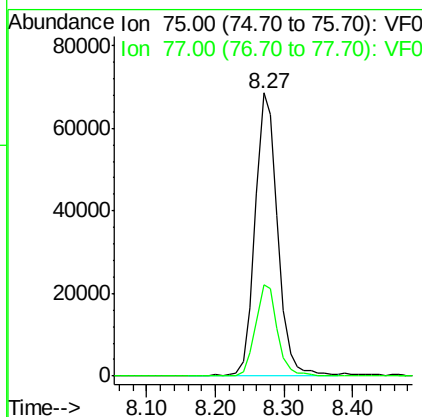
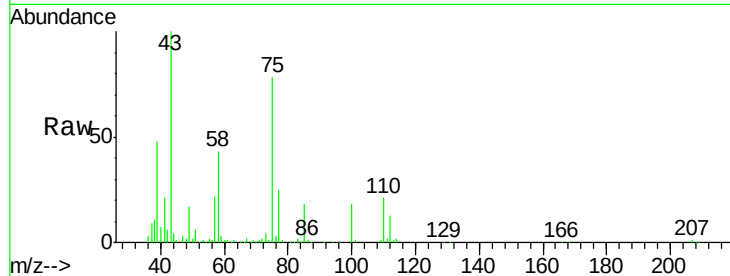
#53
t-1,3-Dichloropropene
Concen: 49.705 ug/l
RT: 8.27 min Scan# 775
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.2	28.0	42.0

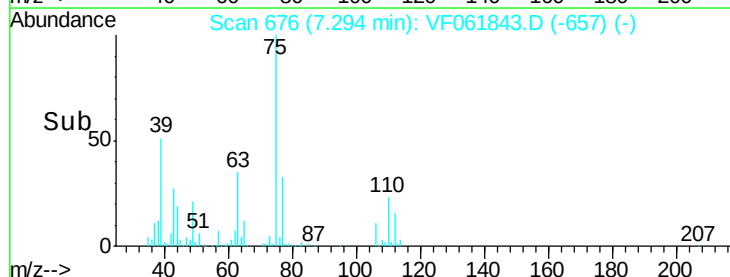
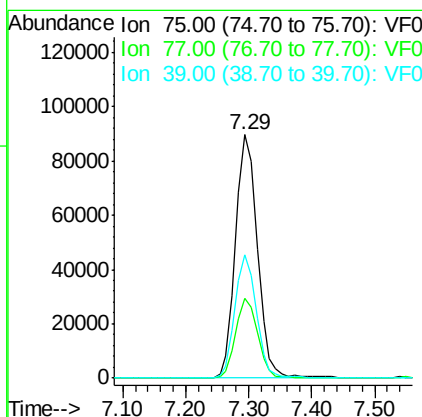
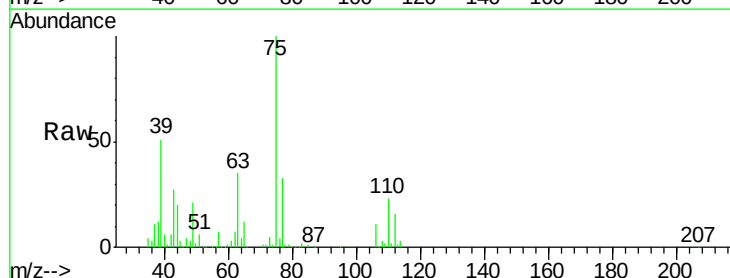
Manual Integrations
APPROVED

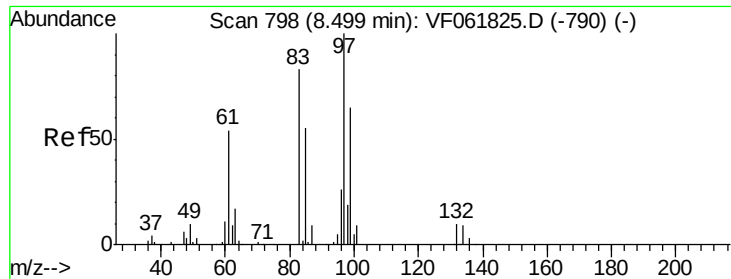
MMDadoda
3/8/2019 12:12:09 AM



#54
cis-1,3-Dichloropropene
Concen: 49.416 ug/l
RT: 7.29 min Scan# 676
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.6	26.3	39.5
39	50.6	40.8	61.2





#55

1,1,2-Trichloroethane

Concen: 46.921 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

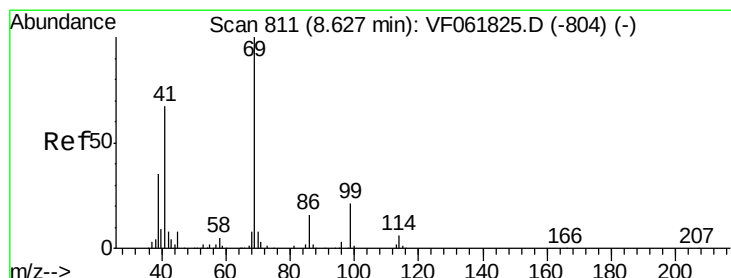
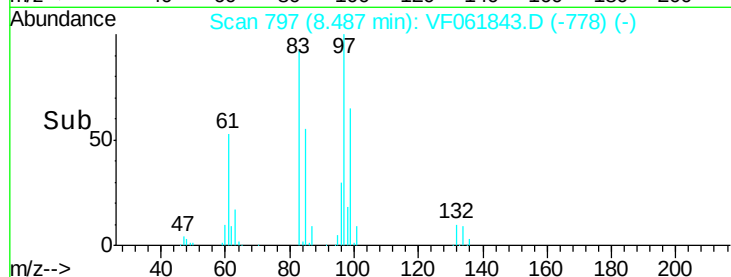
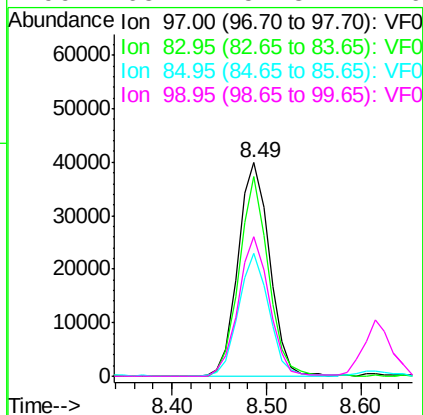
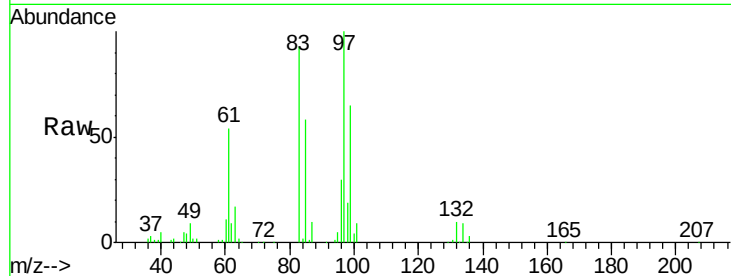
ClientSampleId :

VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		92709		
83	93.3	66.5	99.7		
85	57.8	44.2	66.2		
99	65.1	51.8	77.6		

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#56

Ethyl methacrylate

Concen: 46.819 ug/l

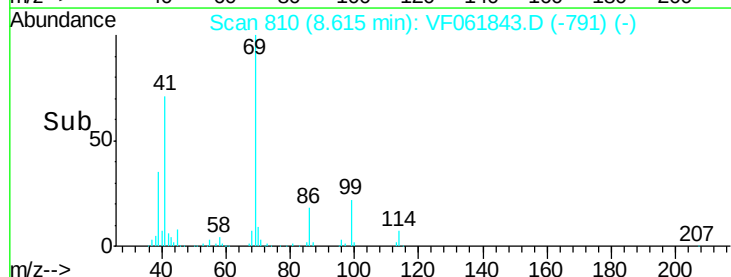
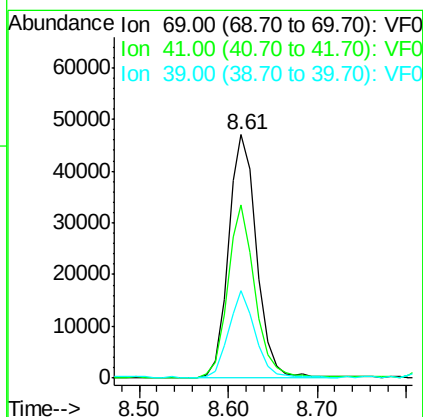
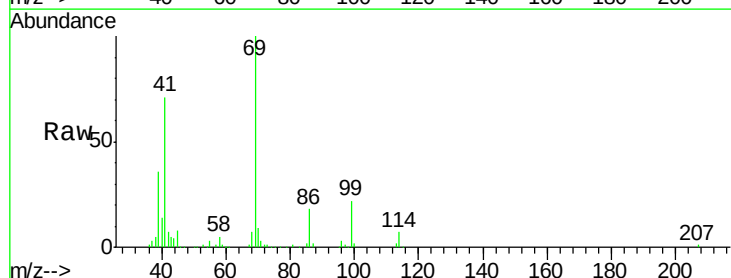
RT: 8.61 min Scan# 810

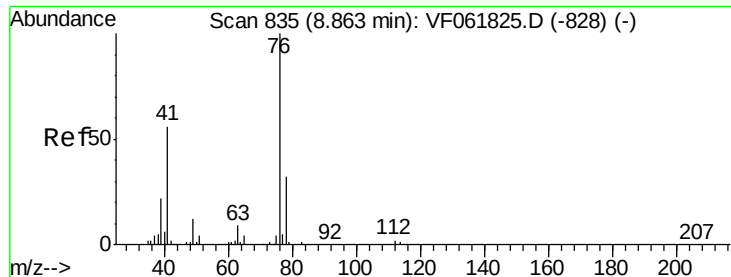
Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		104255		
41	71.0	53.9	80.9		
39	35.7	28.3	42.5		





#57

1,3-Dichloropropane

Concen: 49.319 ug/l

RT: 8.85 min Scan# 834

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 159363

Ion Ratio Lower Upper

76 100

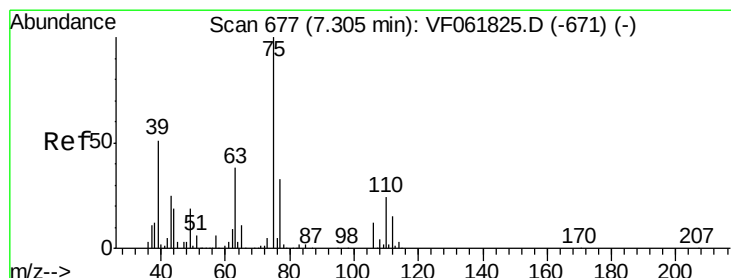
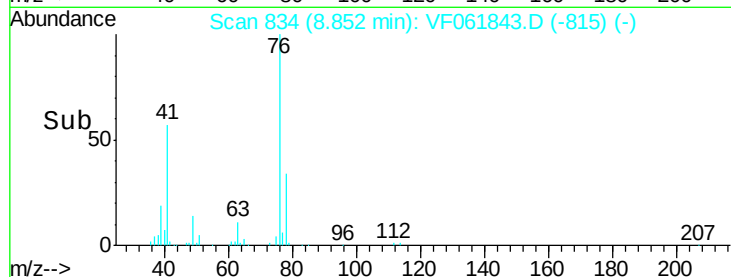
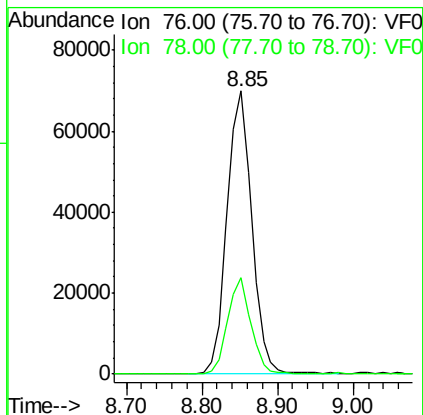
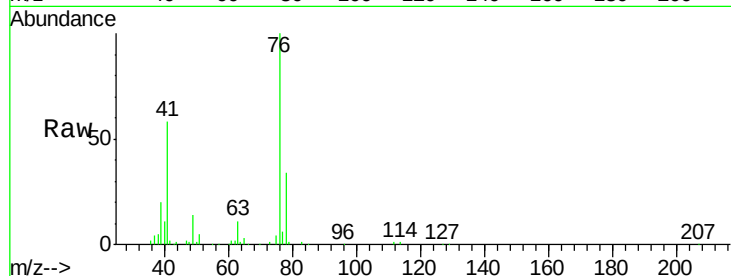
78 34.0 25.4 38.2

Manual Integrations

APPROVED

MMDadoda

3/8/2019 12:12:09 AM



#58

2-Chloroethyl Vinyl ether

Concen: 223.854 ug/l

RT: 7.28 min Scan# 675

Delta R.T. -0.02 min

Lab File: VF061843.D

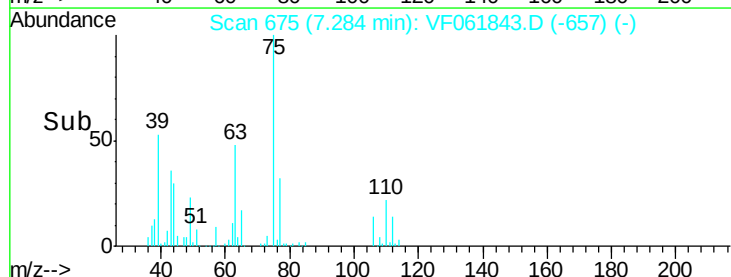
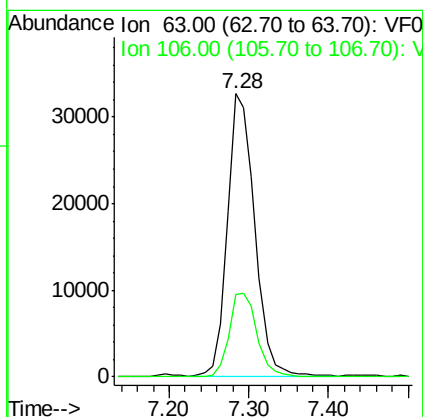
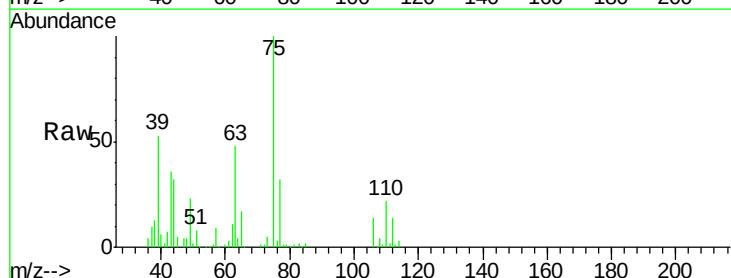
Acq: 5 Mar 2019 13:49

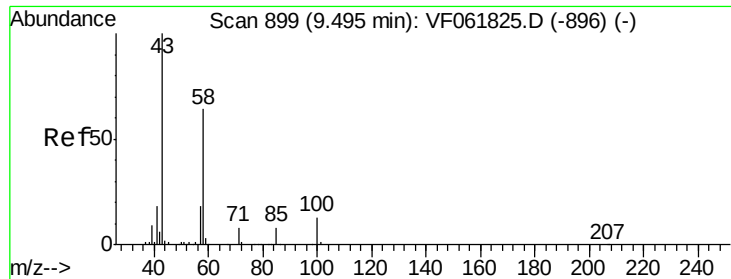
Tgt Ion: 63 Resp: 78854

Ion Ratio Lower Upper

63 100

106 28.9 24.3 36.5





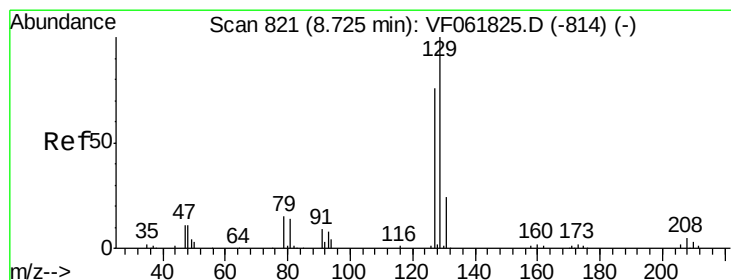
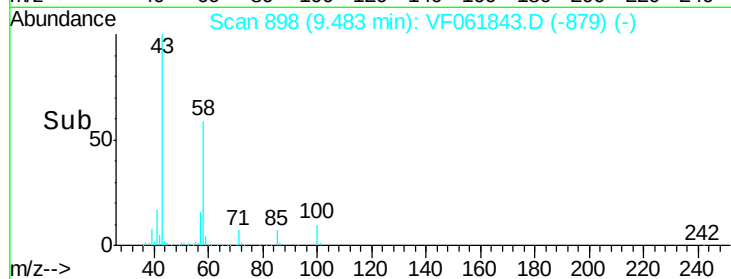
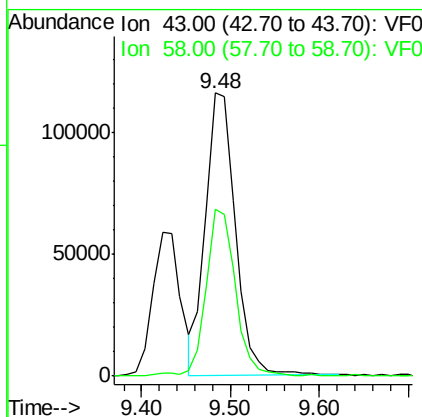
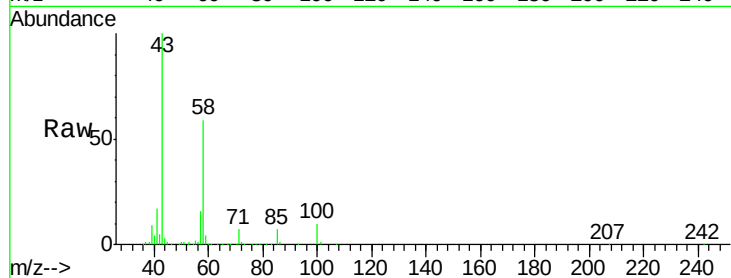
#59
2-Hexanone
Concen: 235.796 ug/l
RT: 9.48 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 269763
Ion Ratio Lower Upper
43 100
58 58.9 28.8 86.4

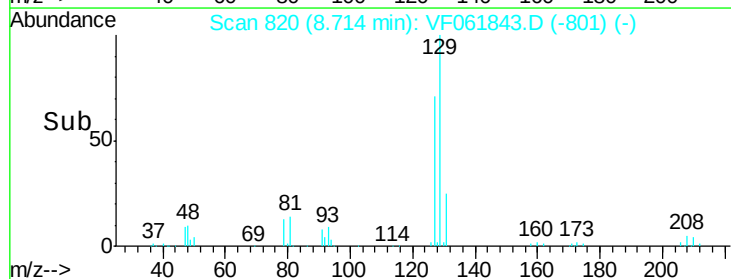
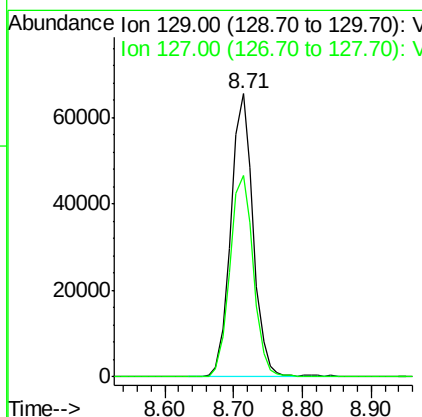
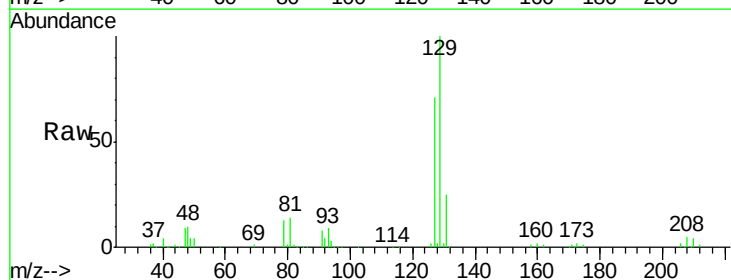
Manual Integrations
APPROVED

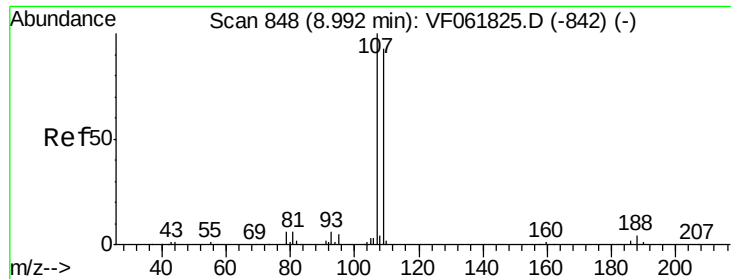
MMDadoda
3/8/2019 12:12:09 AM



#60
Dibromochloromethane
Concen: 52.261 ug/l
RT: 8.71 min Scan# 820
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion: 129 Resp: 147172
Ion Ratio Lower Upper
129 100
127 71.2 38.2 114.6





#61

1,2-Dibromoethane

Concen: 49.820 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 108248

Ion Ratio Lower Upper

107 100

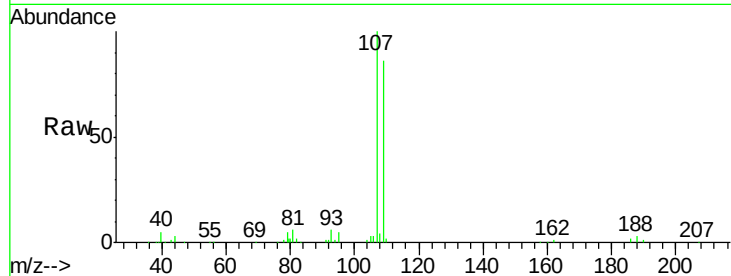
109 86.0 74.6 112.0

Manual Integrations

APPROVED

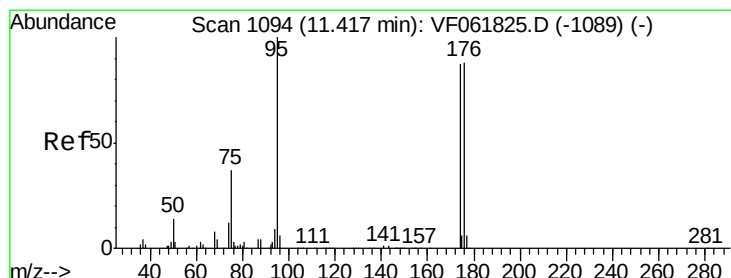
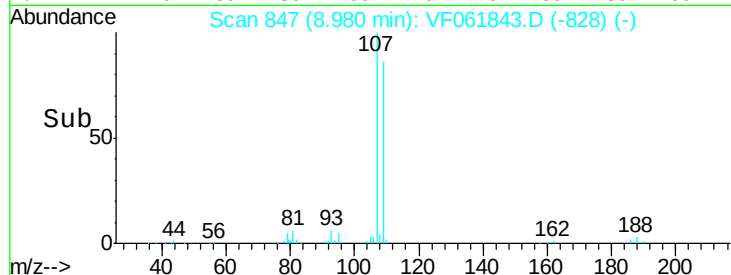
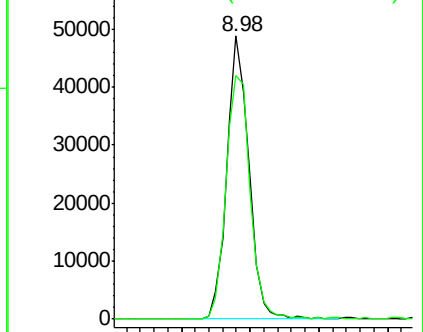
MMDadoda

3/8/2019 12:12:09 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 48.786 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

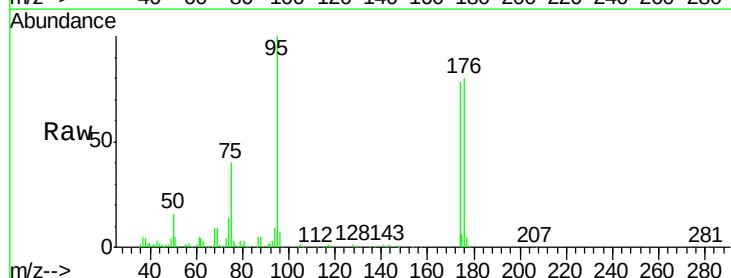
Tgt Ion: 95 Resp: 186108

Ion Ratio Lower Upper

95 100

174 78.2 0.0 174.0

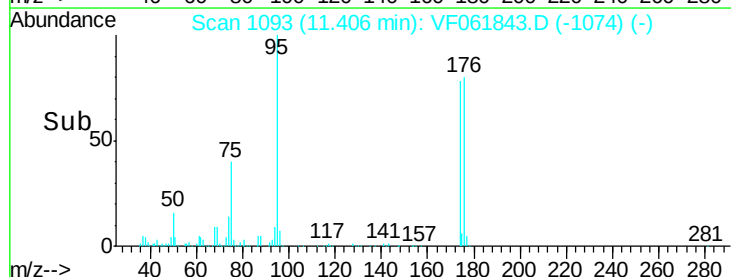
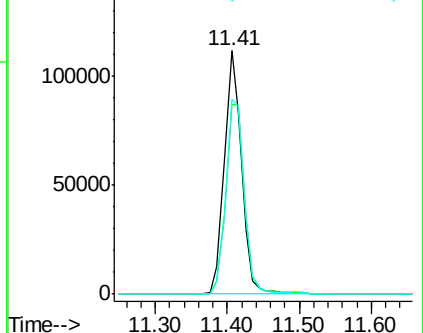
176 80.3 0.0 175.2

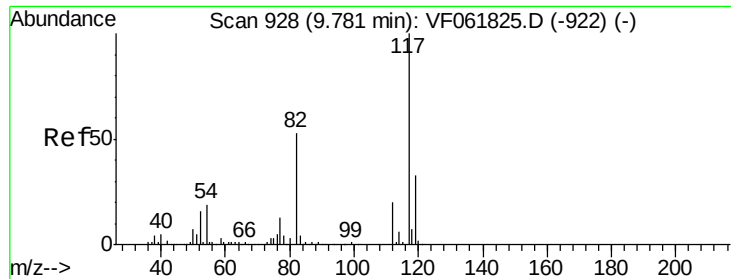


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





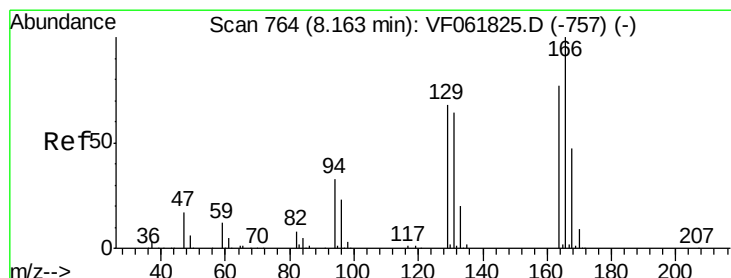
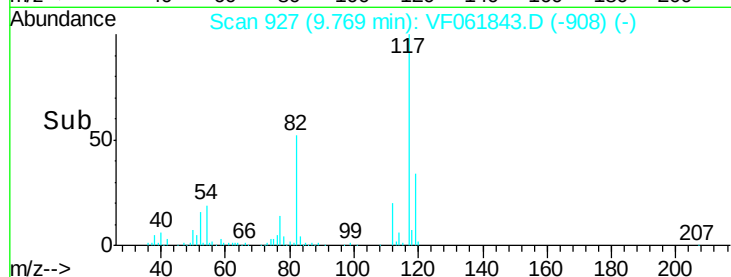
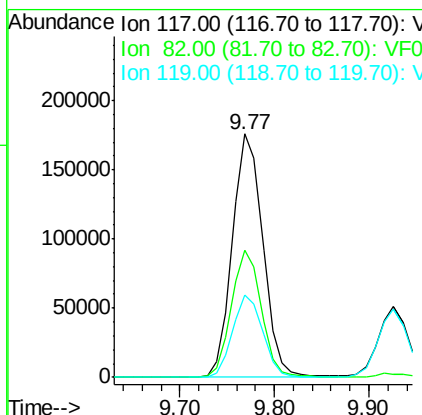
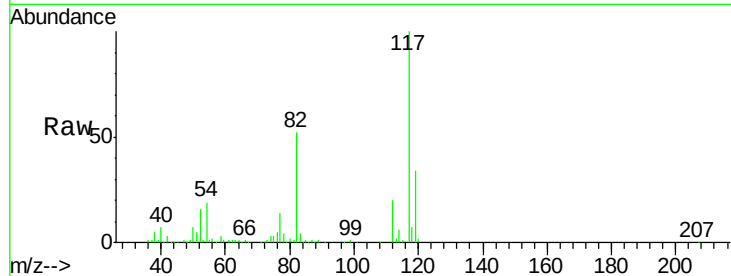
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.4	42.6	63.8
119	33.6	26.0	39.0

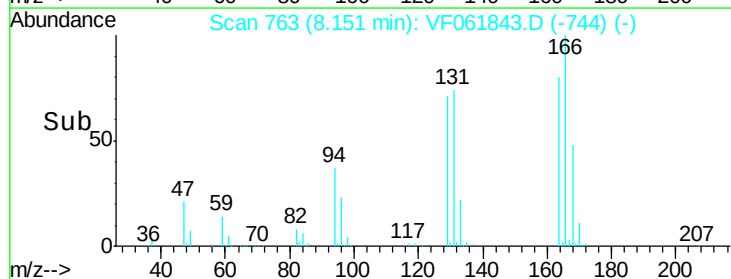
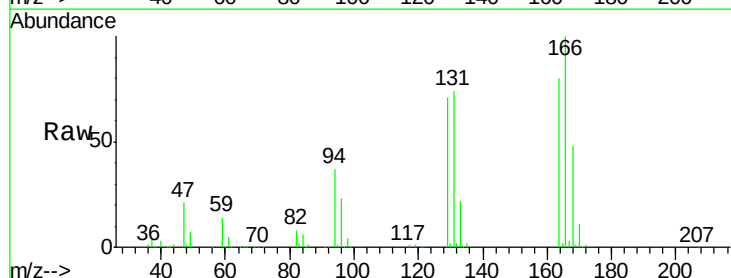
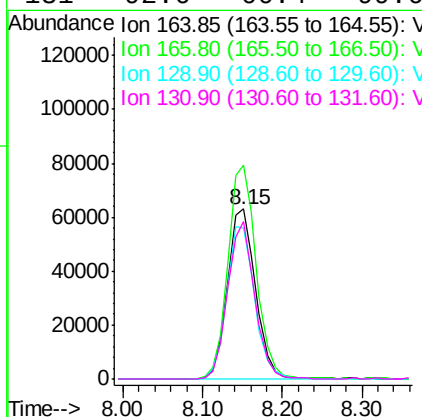
Manual Integrations
APPROVED

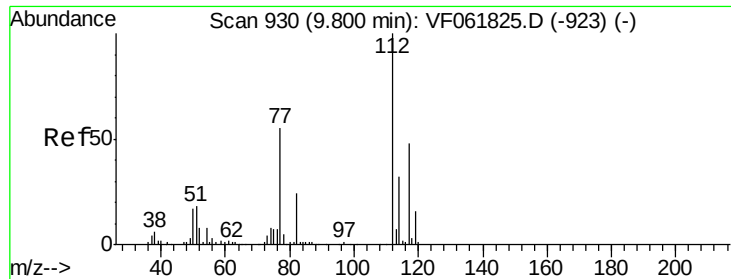
MMDadoda
3/8/2019 12:12:09 AM



#64
Tetrachloroethene
Concen: 51.591 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.5	103.4	155.0
129	88.8	69.9	104.9
131	92.6	66.4	99.6





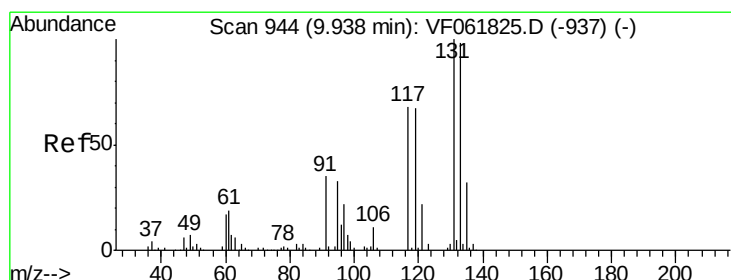
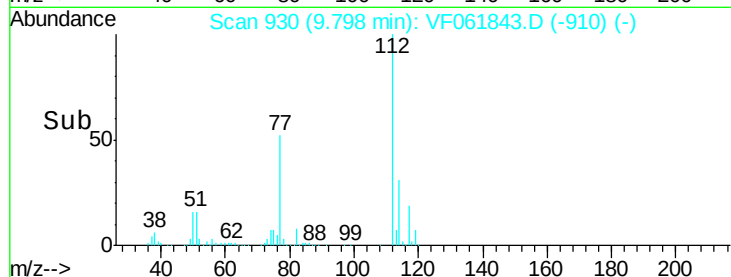
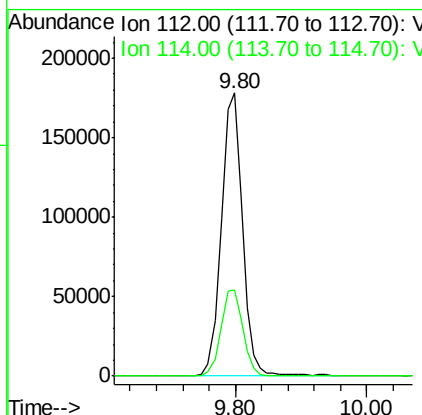
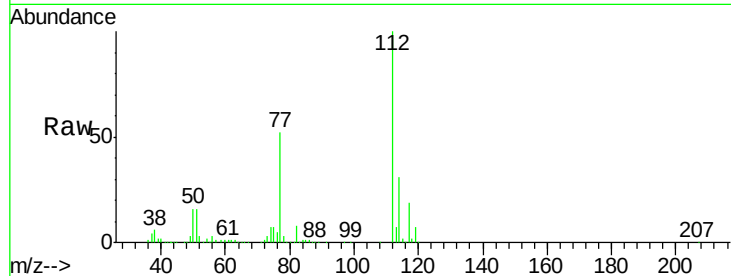
#65
Chlorobenzene
Concen: 52.893 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
112	100		
114	30.6	25.5	38.3

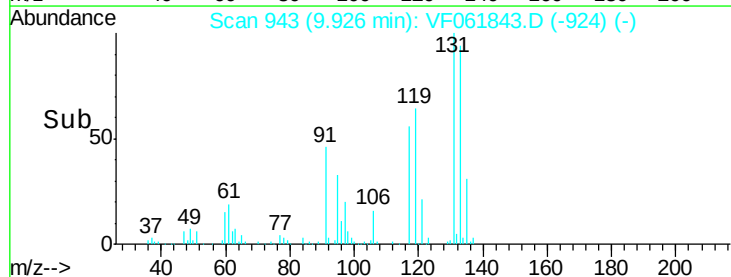
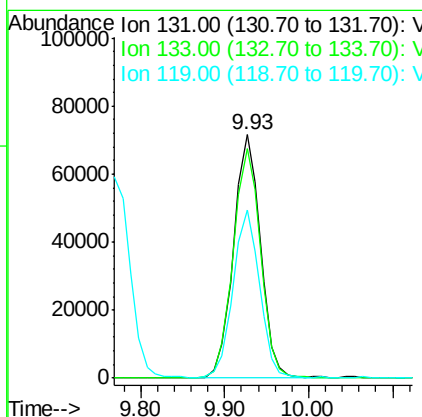
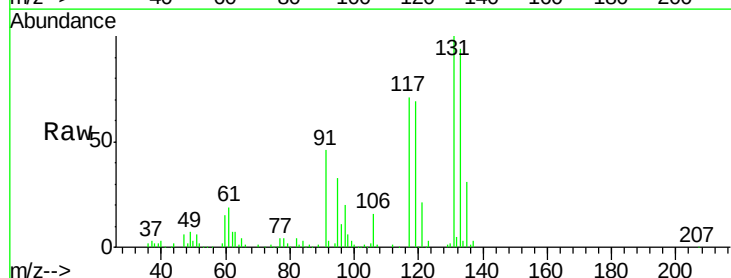
Manual Integrations
APPROVED

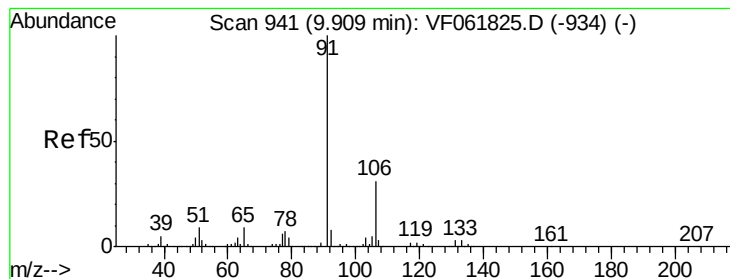
MMDadoda
3/8/2019 12:12:09 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 54.314 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.5	48.9	146.7
119	68.9	33.6	100.8





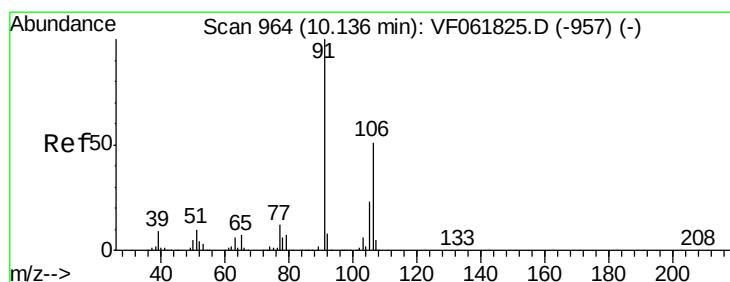
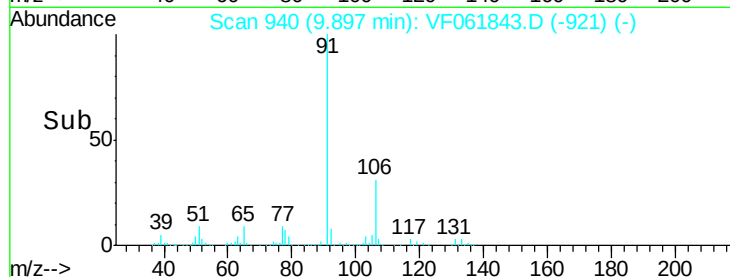
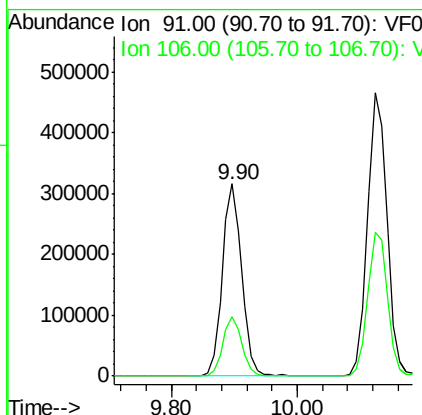
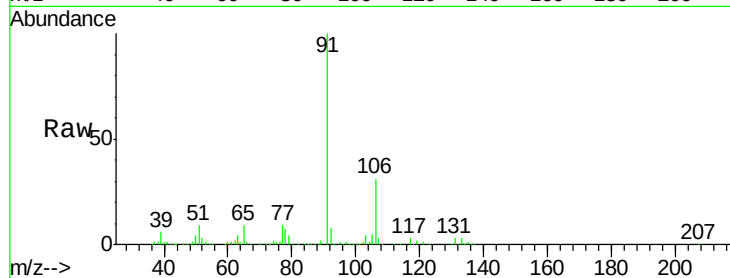
#67
Ethyl Benzene
Concen: 54.064 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 678658
Ion Ratio Lower Upper
91 100
106 30.6 25.0 37.4

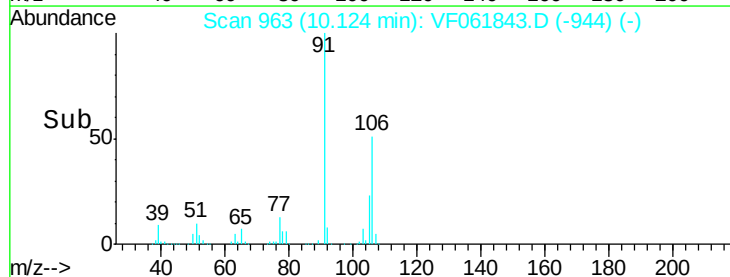
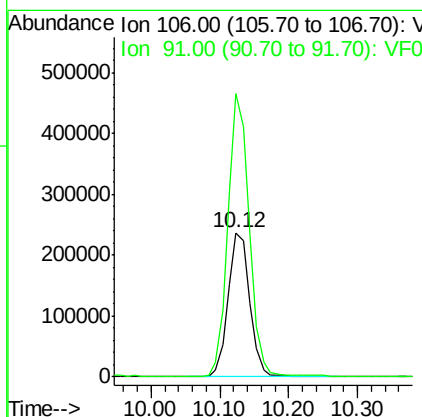
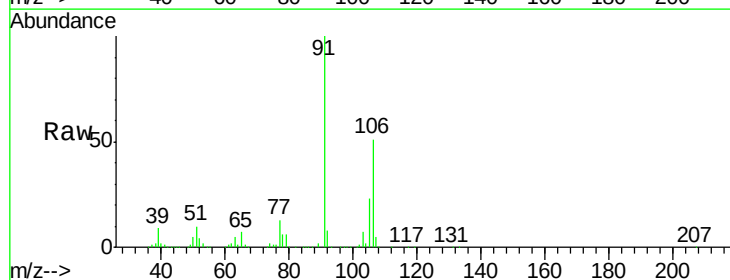
Manual Integrations
APPROVED

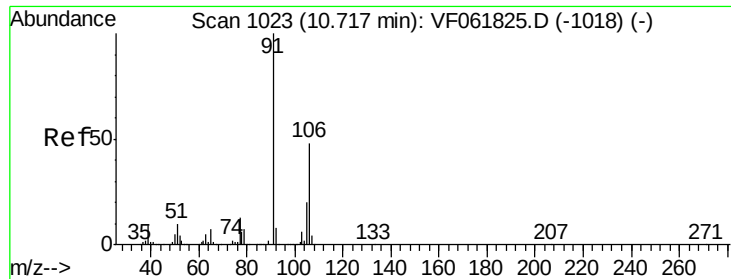
MMDadoda
3/8/2019 12:12:09 AM



#68
m/p-Xylenes
Concen: 107.373 ug/l
RT: 10.12 min Scan# 963
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion: 106 Resp: 516338
Ion Ratio Lower Upper
106 100
91 196.6 157.5 236.3





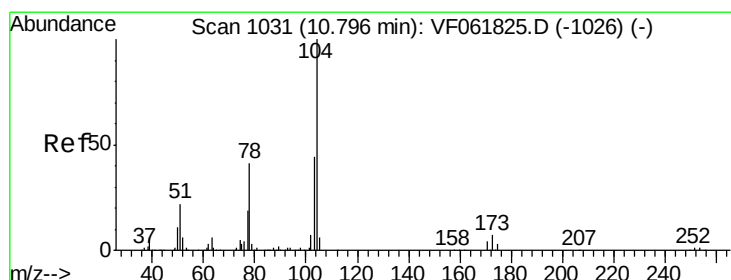
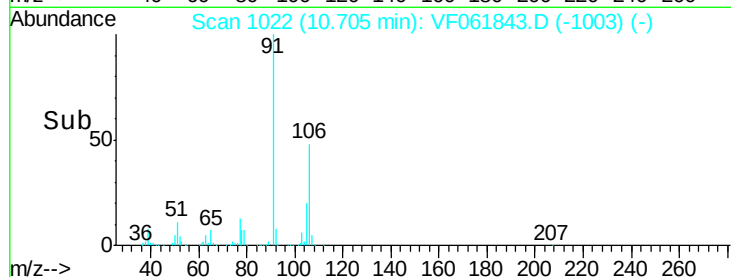
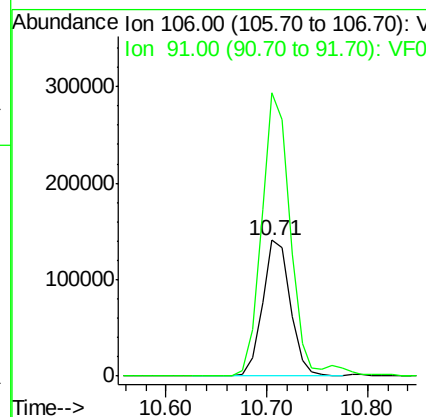
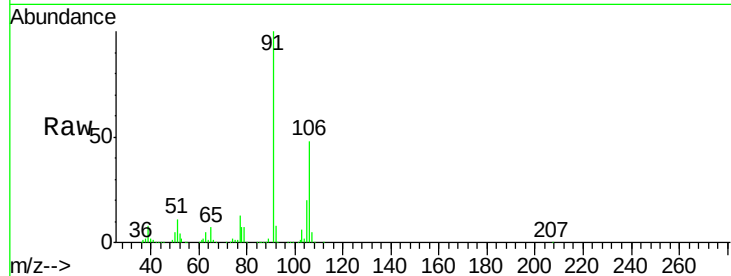
#69
o-Xylene
Concen: 52.305 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	270846		
91	91	208.6	103.5	310.3	

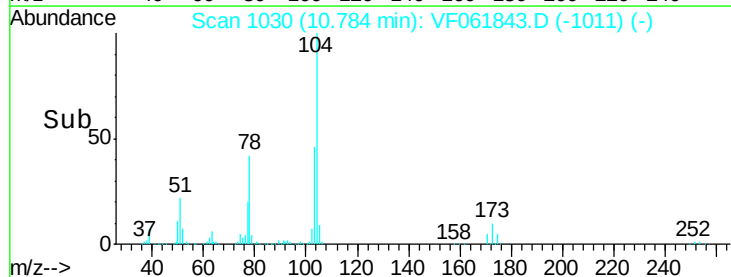
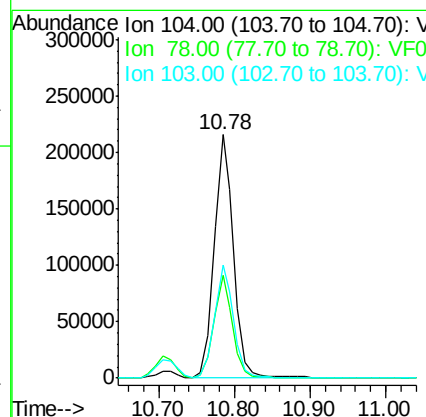
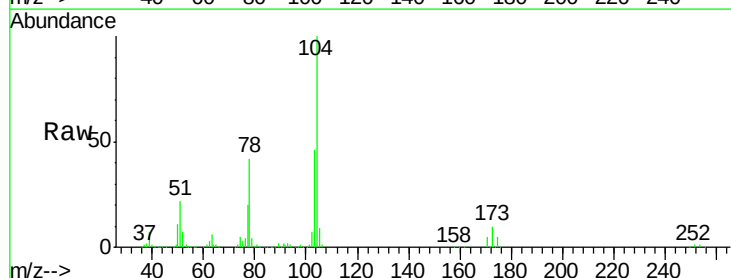
Manual Integrations
APPROVED

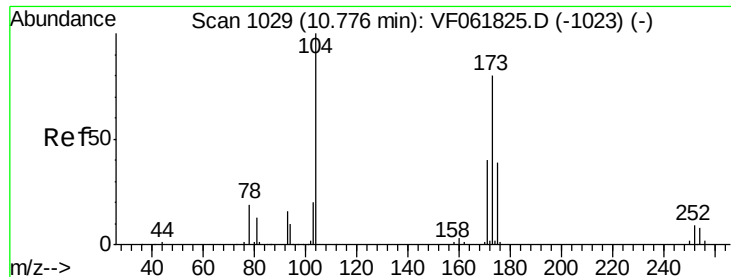
MMDadoda
3/8/2019 12:12:09 AM



#70
Styrene
Concen: 52.606 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	383364		
78	78	42.3	33.3	49.9	
103	103	46.3	35.4	53.0	





#71

Bromoform

Concen: 49.303 ug/l

RT: 10.77 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

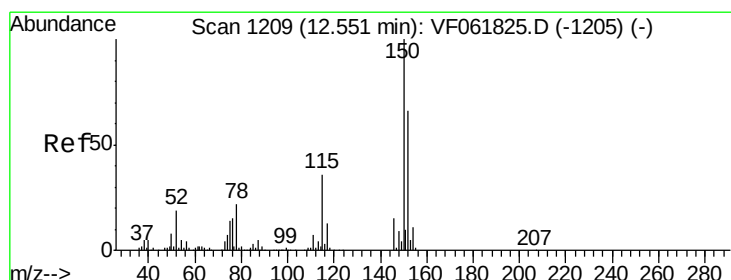
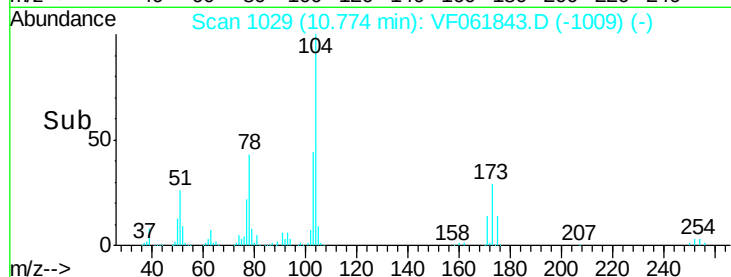
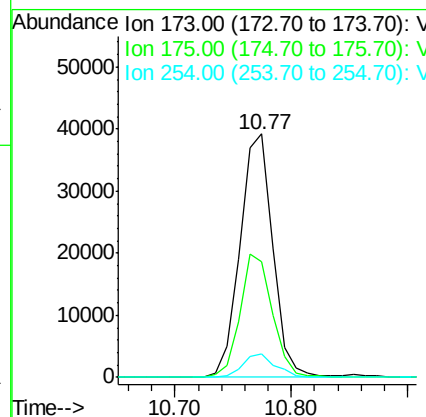
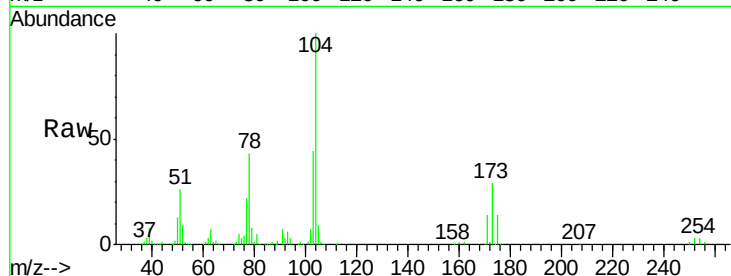
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.5	73.5
254	9.6	8.0	12.0

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

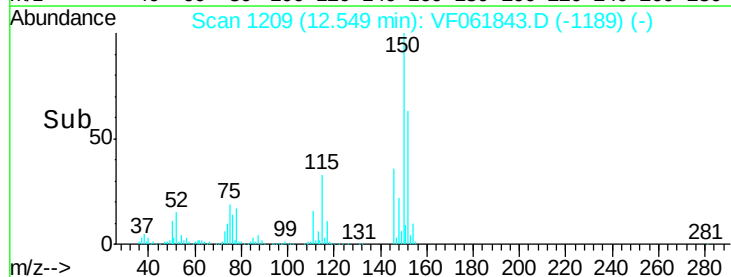
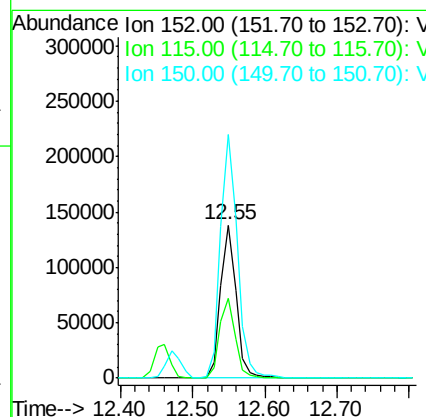
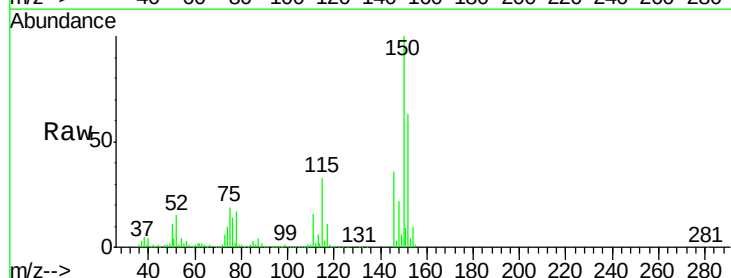
RT: 12.55 min Scan# 1209

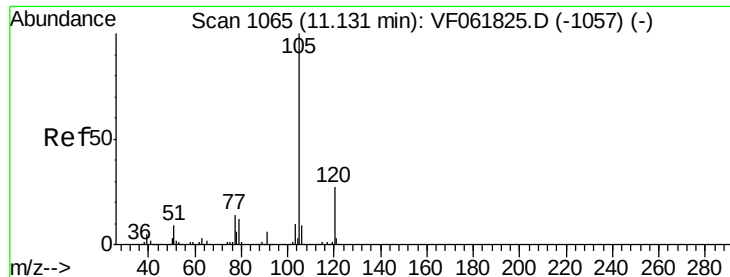
Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.2	27.7	83.1
150	158.9	0.0	304.2





#73

Isopropylbenzene

Concen: 54.799 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 775964

Ion Ratio Lower Upper

105 100

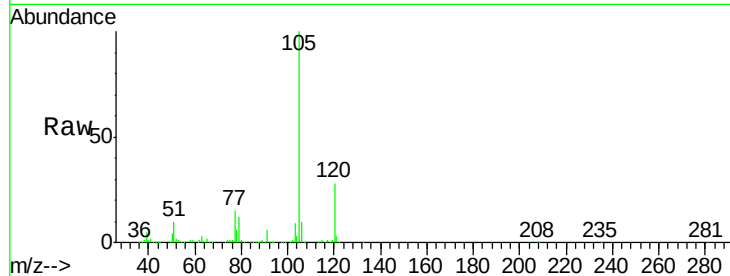
120 27.8 13.7 41.0

Manual Integrations

APPROVED

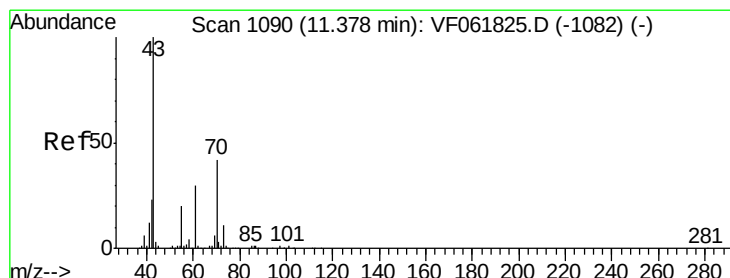
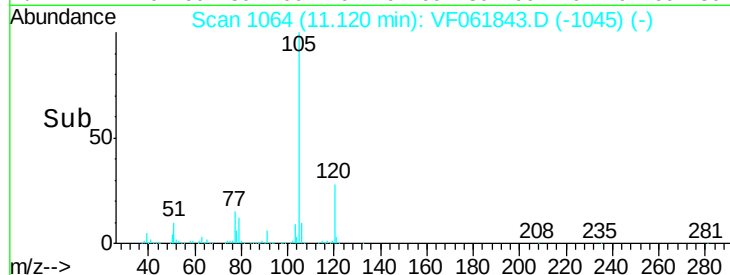
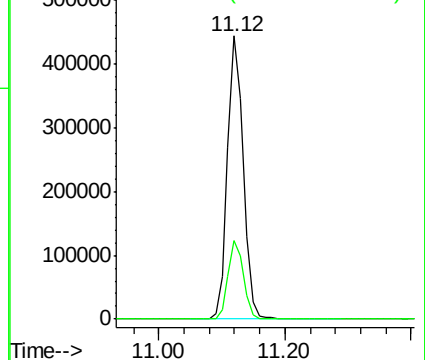
MMDadoda

3/8/2019 12:12:09 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: 51.731 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion: 43 Resp: 168636

Ion Ratio Lower Upper

43 100

70 39.7 33.4 50.0

55 22.0 16.3 24.5

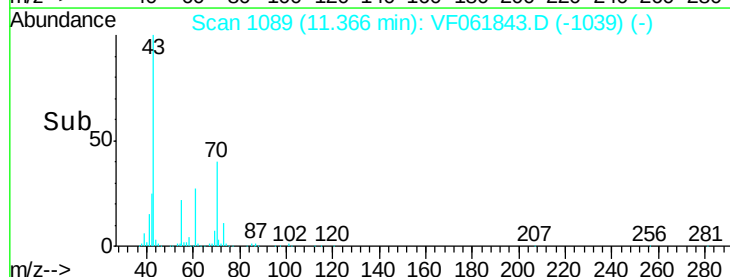
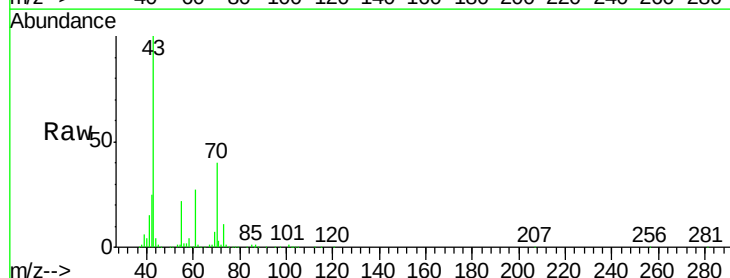
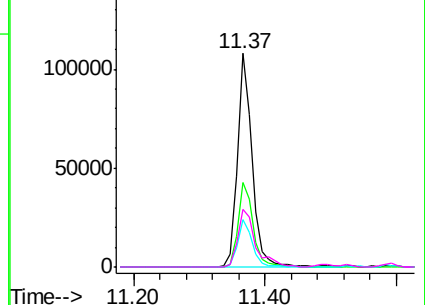
61 27.0 24.0 36.0

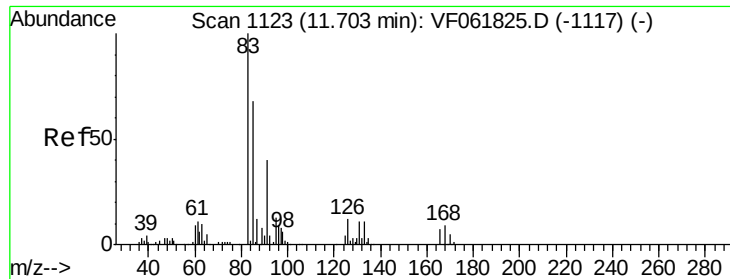
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 51.184 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 120459
Ion Ratio Lower Upper

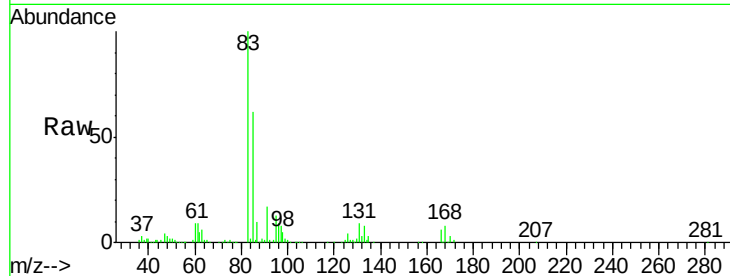
83 100

131 9.5 5.5 16.7

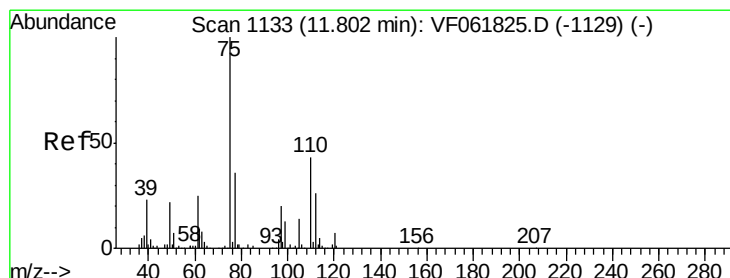
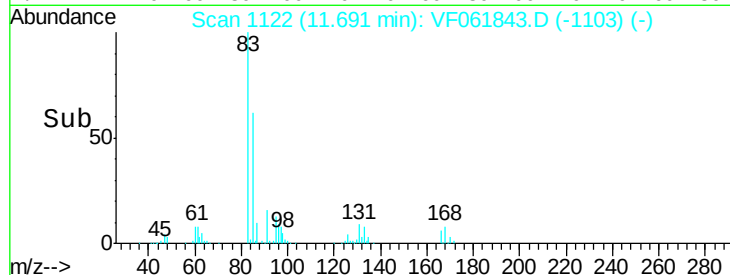
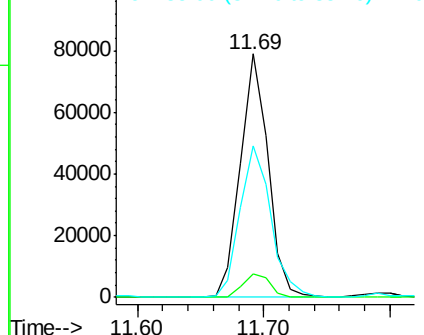
85 62.0 34.2 102.6

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 50.931 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

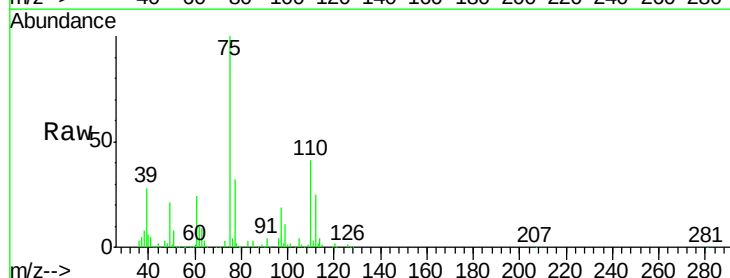
Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

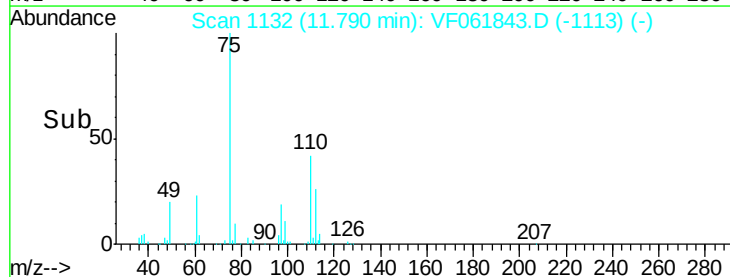
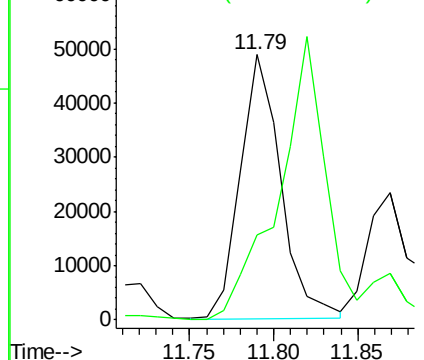
Tgt Ion: 75 Resp: 81808
Ion Ratio Lower Upper

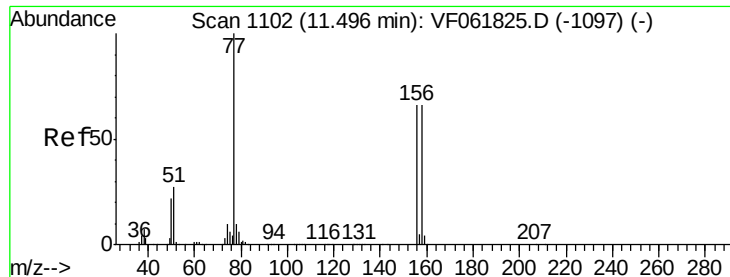
75 100

77 32.2 18.1 54.4



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 52.773 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:156 Resp: 179842

Ion Ratio Lower Upper

156 100

77 132.9 75.7 227.1

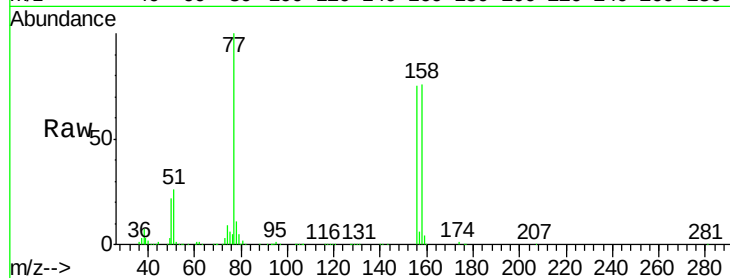
158 100.5 50.0 150.1

Manual Integrations

APPROVED

MMDadoda

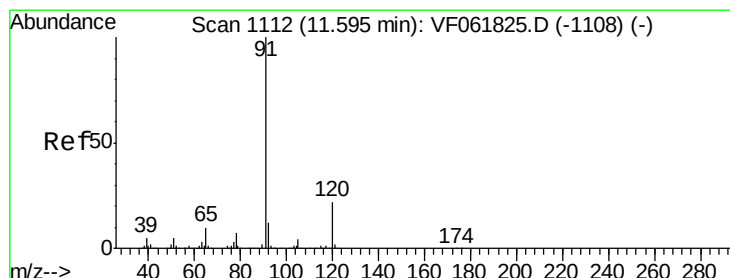
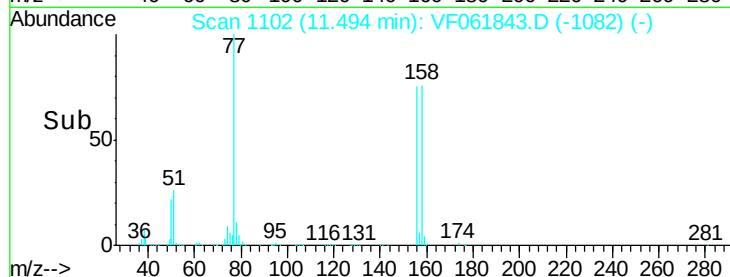
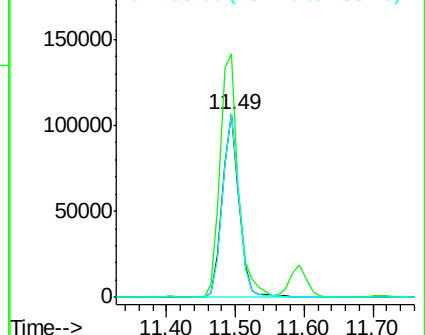
3/8/2019 12:12:09 AM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 51.917 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061843.D

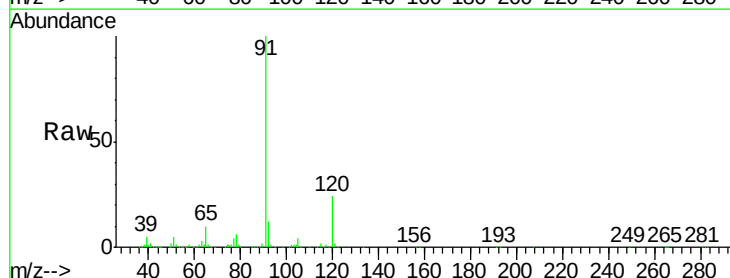
Acq: 5 Mar 2019 13:49

Tgt Ion: 91 Resp: 830197

Ion Ratio Lower Upper

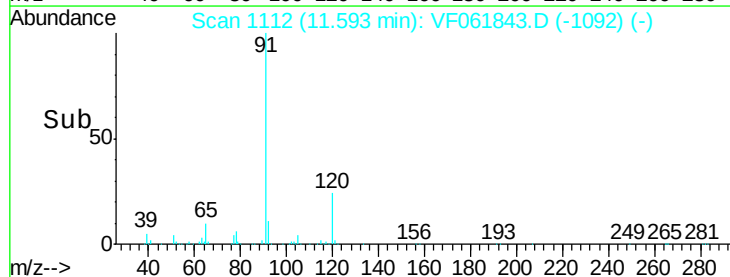
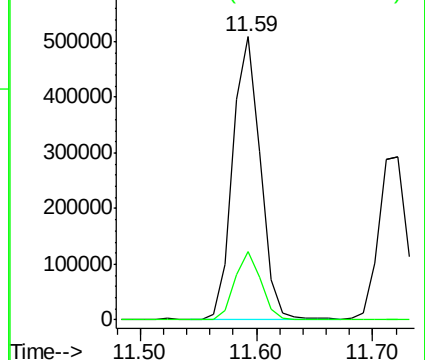
91 100

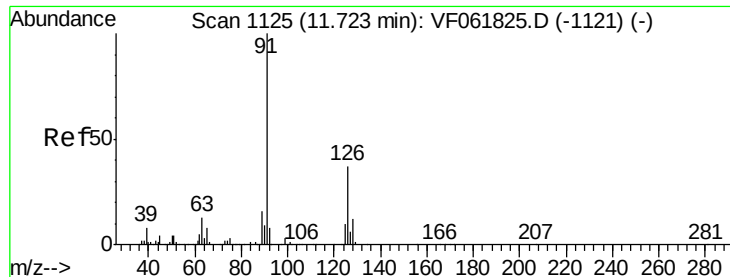
120 24.3 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 53.645 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 490431

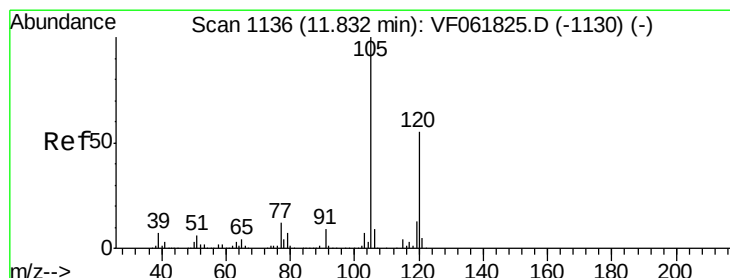
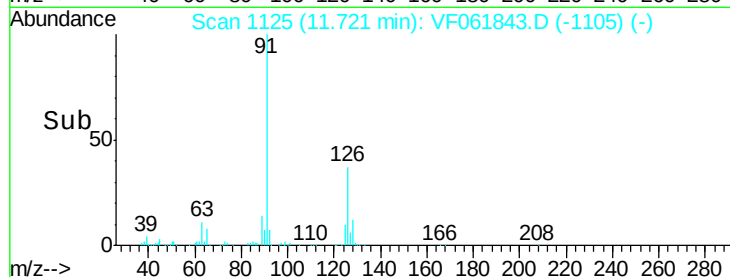
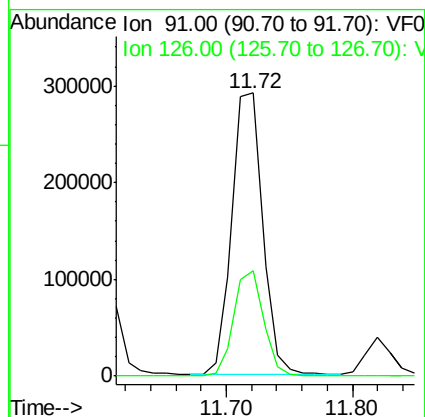
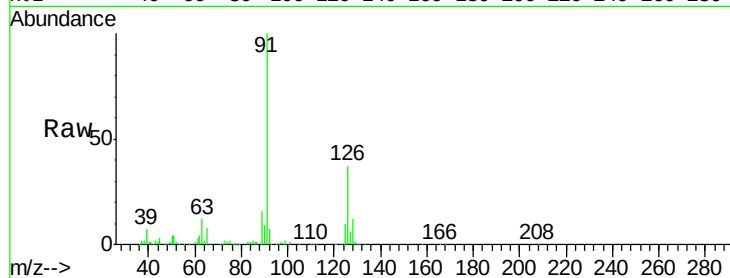
Ion Ratio Lower Upper

91 100

126 37.1 18.1 54.4

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#80

1,3,5-Trimethylbenzene

Concen: 52.966 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061843.D

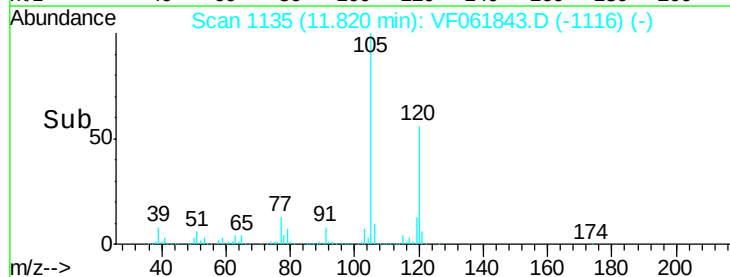
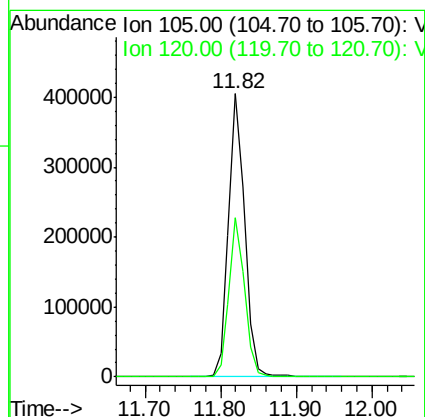
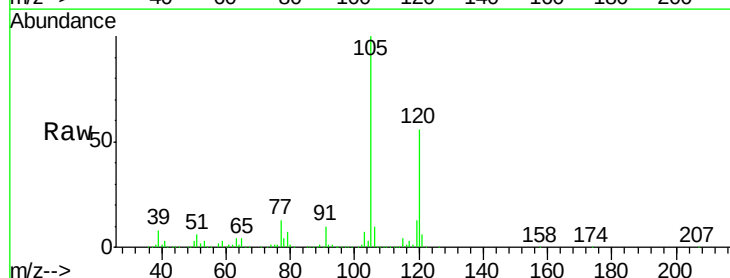
Acq: 5 Mar 2019 13:49

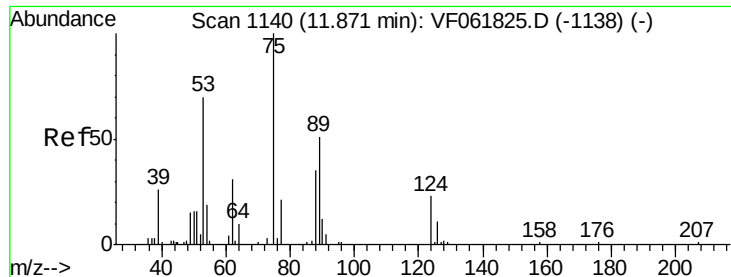
Tgt Ion: 105 Resp: 602164

Ion Ratio Lower Upper

105 100

120 56.2 27.4 82.2





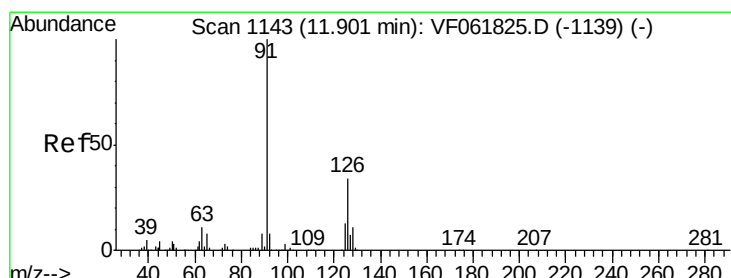
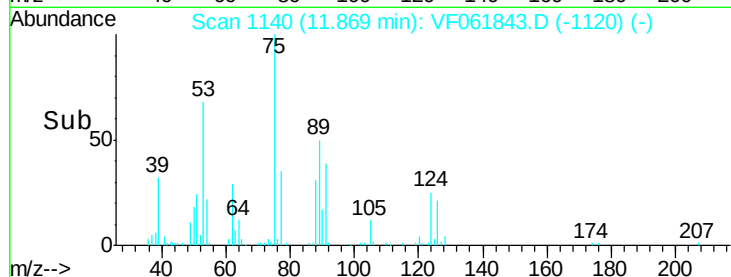
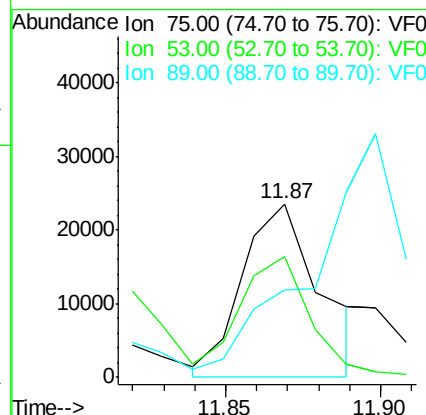
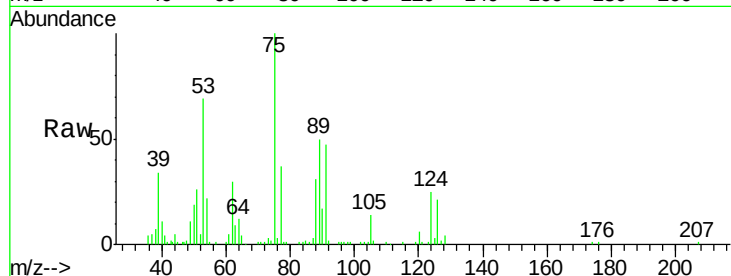
#81
trans-1,4-Dichloro-2-butene
Concen: 55.651 ug/l m
RT: 11.87 min Scan# 1140
Delta R.T. -0.00 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
53	69.4	58.6	88.0
89	50.3	41.4	62.0

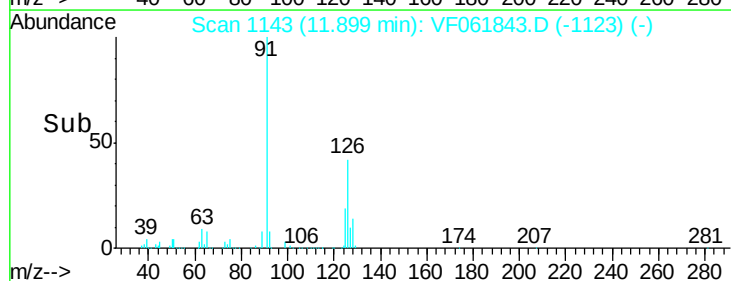
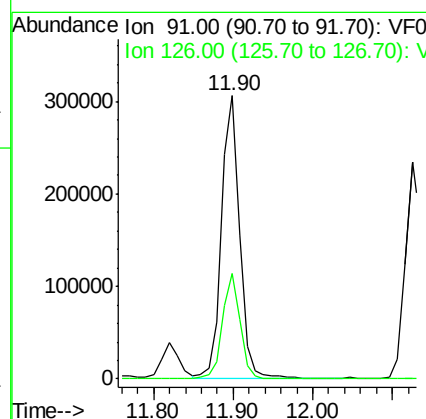
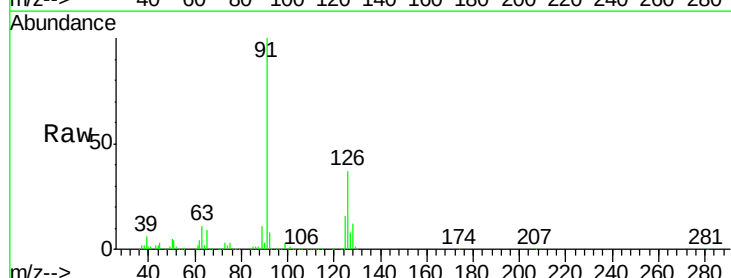
Manual Integrations
APPROVED

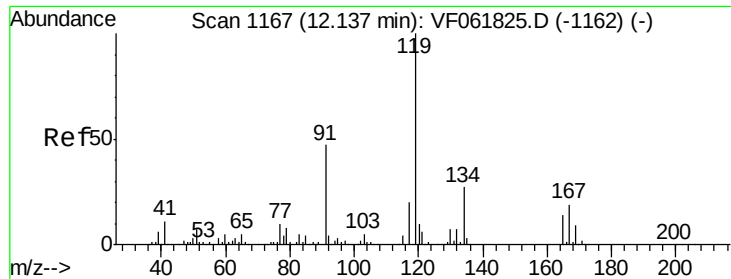
MMDadoda
3/8/2019 12:12:09 AM



#82
4-Chlorotoluene
Concen: 52.665 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
91	100		
126	37.4	17.0	50.9





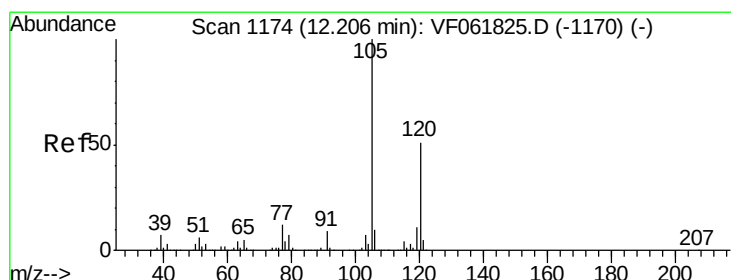
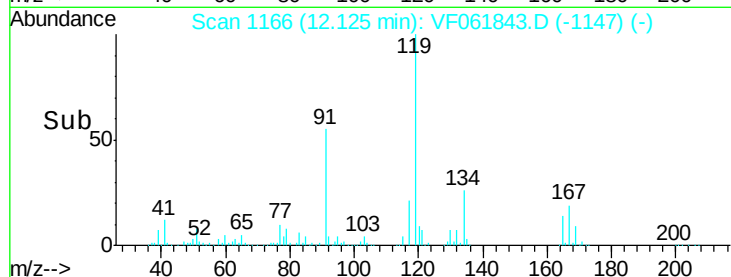
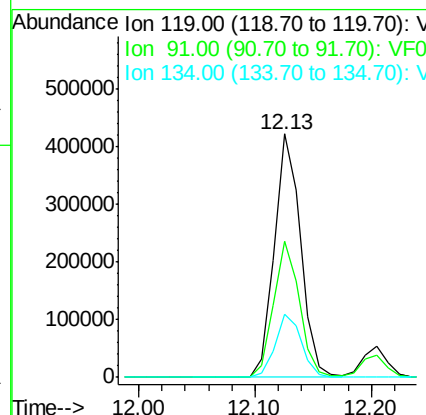
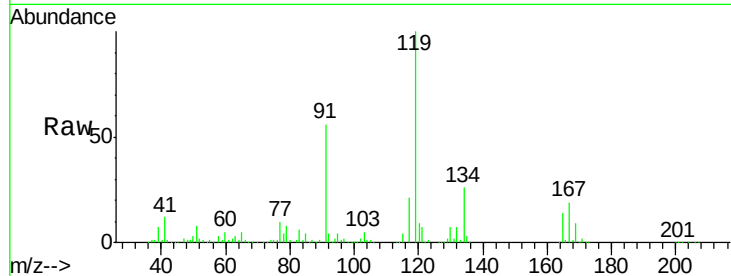
#83
 tert-Butylbenzene
 Concen: 54.727 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	55.7	23.5	70.5
134	26.2	13.3	39.8

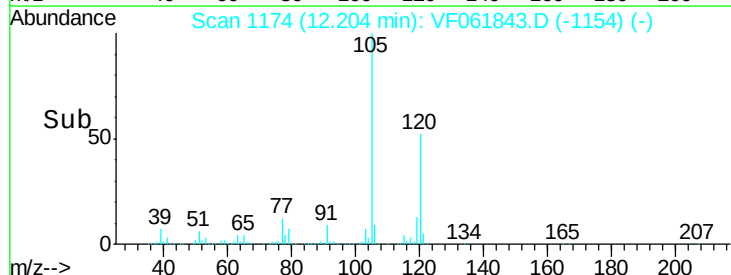
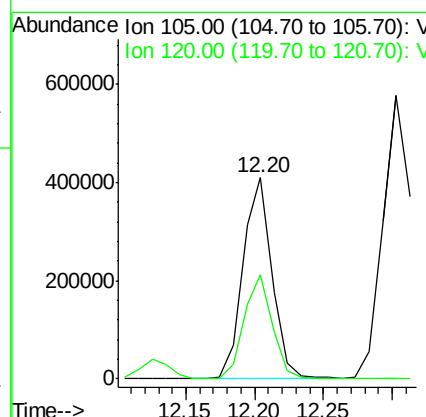
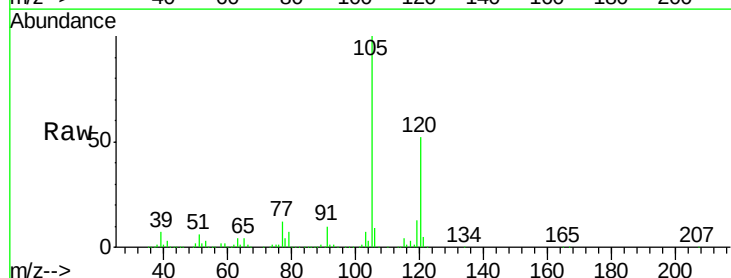
Manual Integrations
 APPROVED

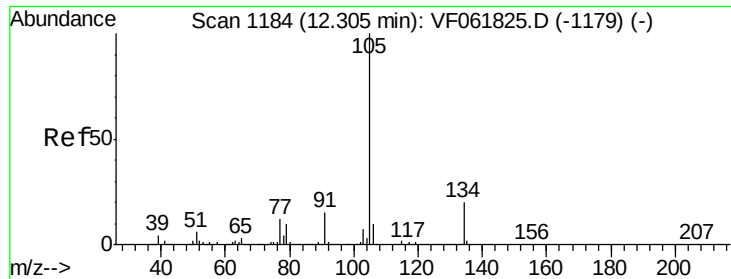
MMDadoda
 3/8/2019 12:12:09 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 54.055 ug/l
 RT: 12.20 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	52.1	25.8	77.4





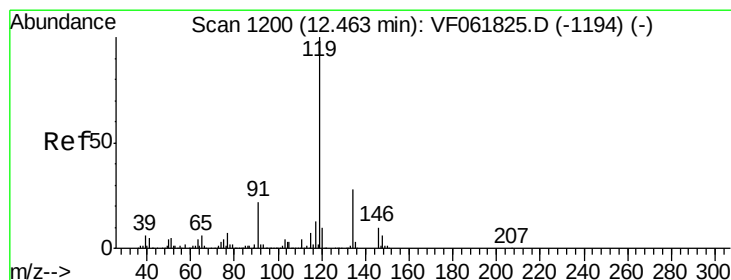
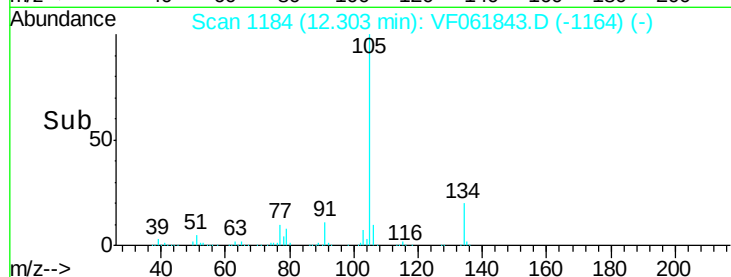
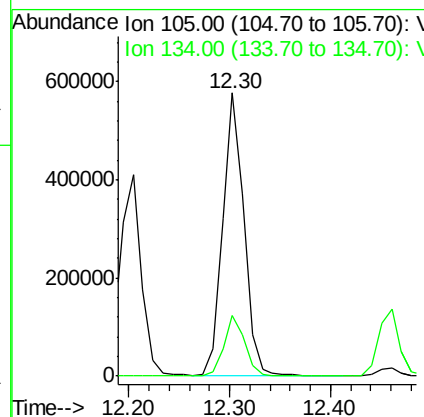
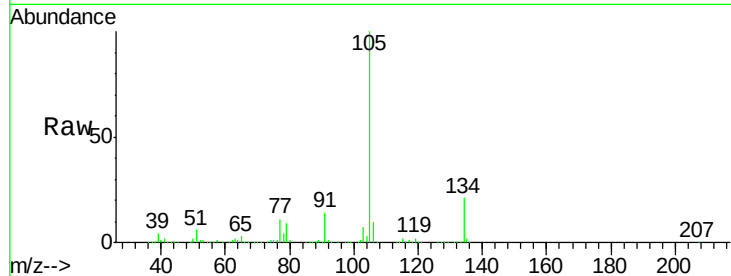
#85
 sec-Butylbenzene
 Concen: 54.156 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.4	9.8	29.5

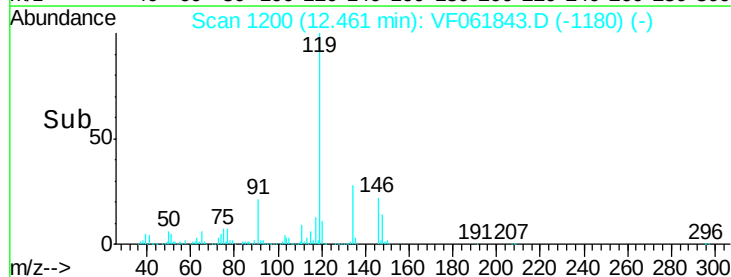
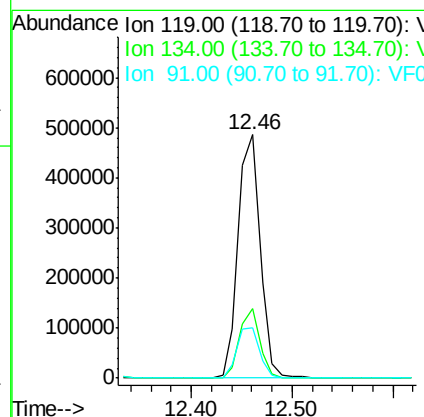
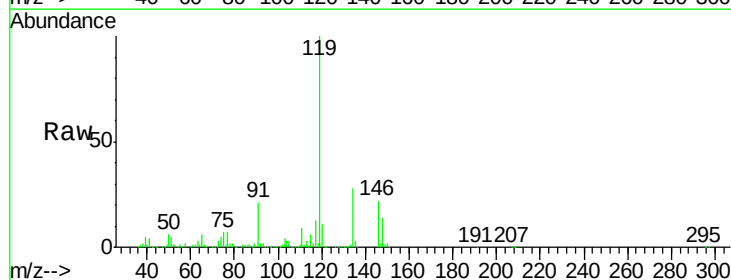
Manual Integrations
 APPROVED

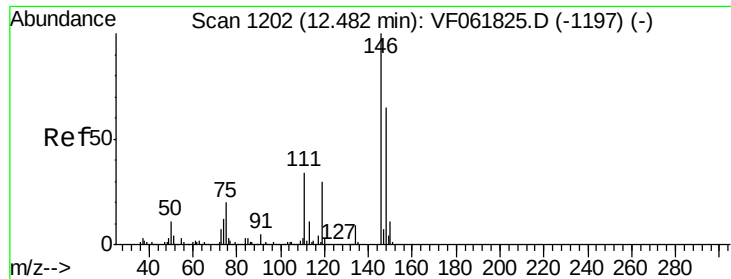
MMDadoda
 3/8/2019 12:12:09 AM



#86
 p-Isopropyltoluene
 Concen: 55.274 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.3	14.0	42.0
91	20.9	11.1	33.3





#87

1,3-Dichlorobenzene

Concen: 52.124 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

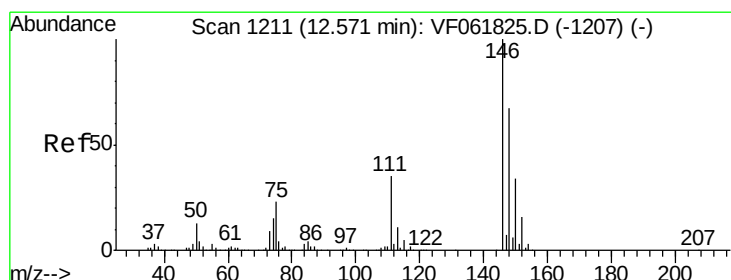
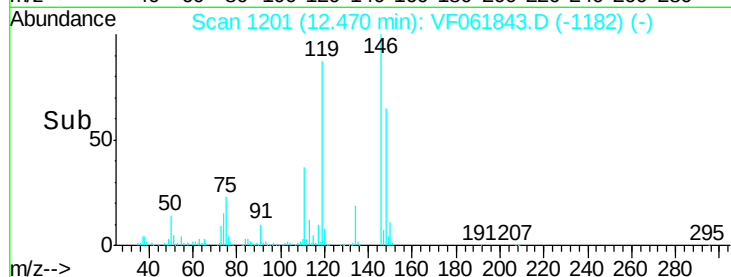
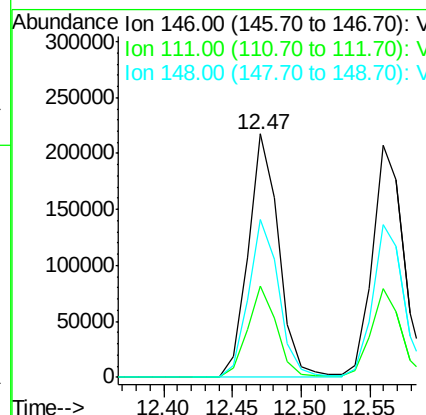
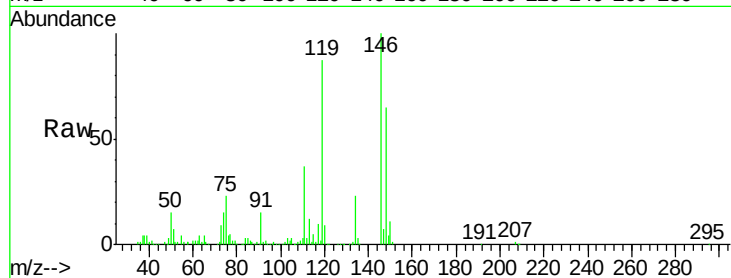
Instrument :
MSVOA_F

ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.4	17.0	51.0
148	65.0	32.5	97.5

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#88

1,4-Dichlorobenzene

Concen: 52.723 ug/l

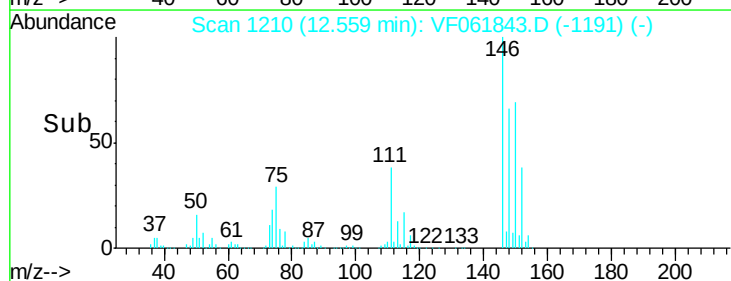
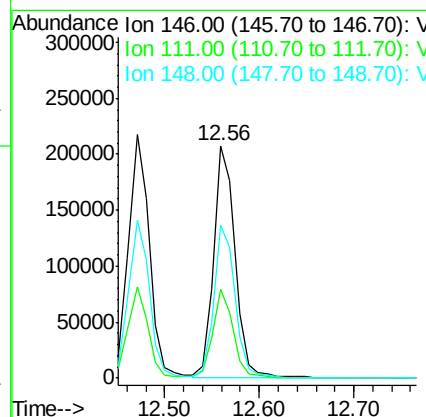
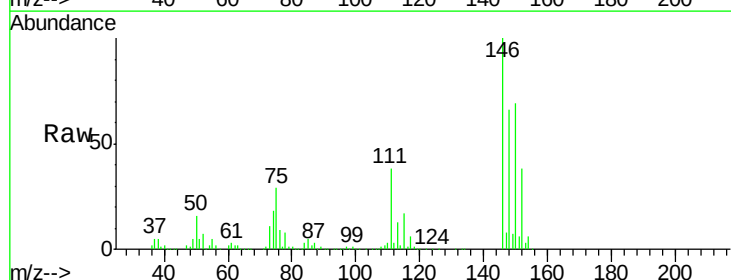
RT: 12.56 min Scan# 1210

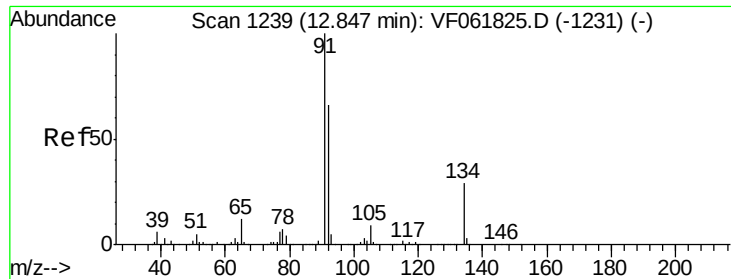
Delta R.T. -0.01 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	17.6	52.9
148	66.0	33.5	100.4





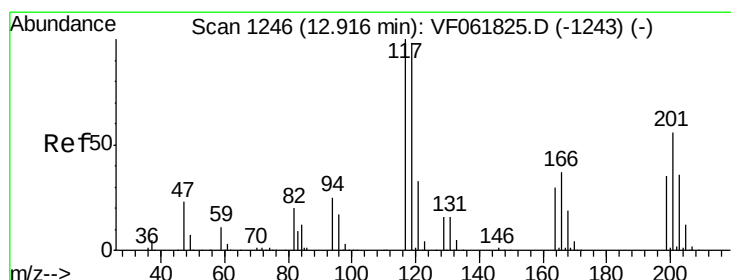
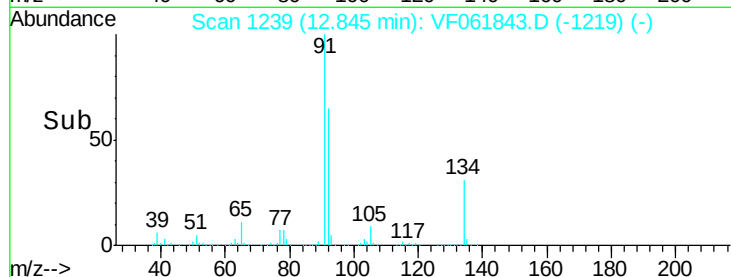
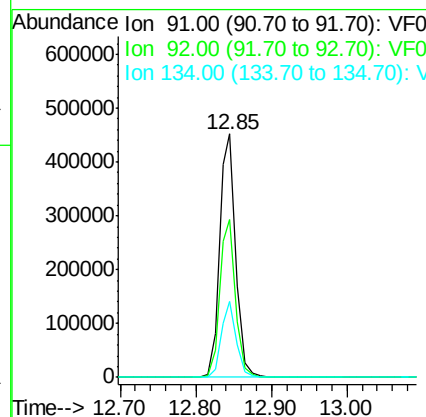
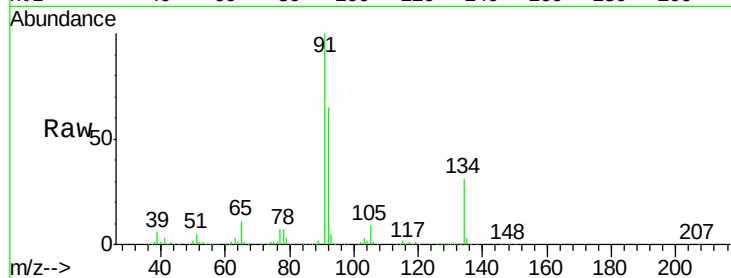
#89
n-Butylbenzene
Concen: 53.216 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.9	32.9	98.6
134	31.3	14.5	43.6

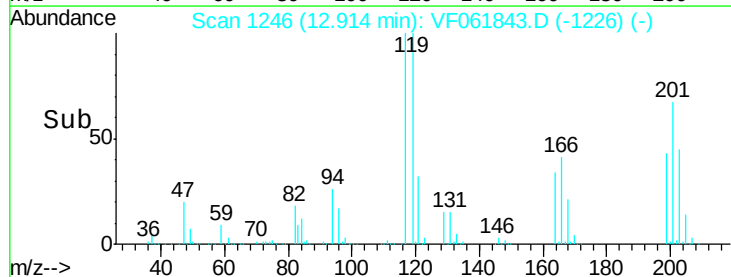
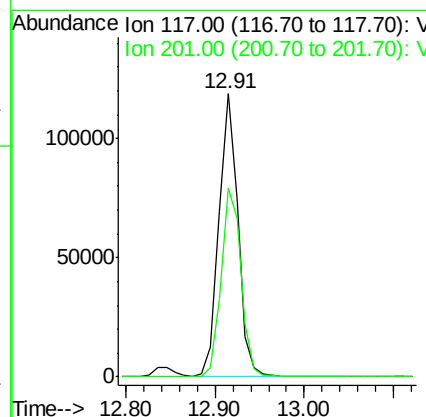
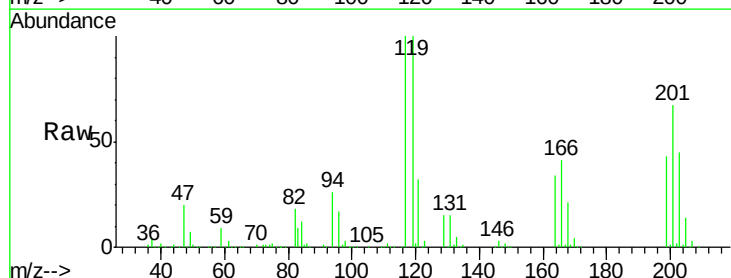
Manual Integrations
APPROVED

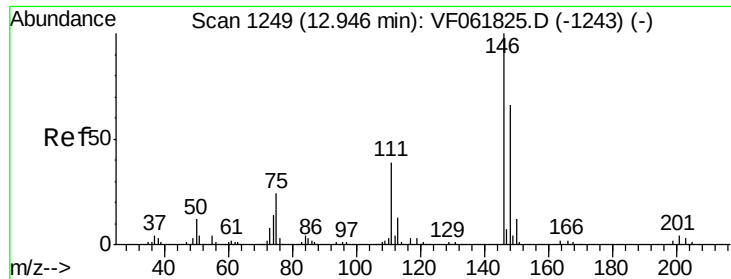
MMDadoda
3/8/2019 12:12:09 AM



#90
Hexachloroethane
Concen: 55.192 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061843.D
Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Lower	Upper
117	100		
201	66.9	27.8	83.4





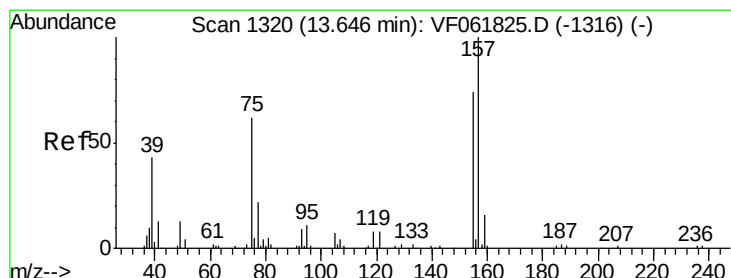
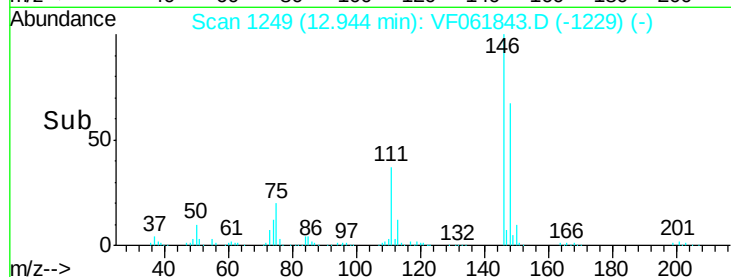
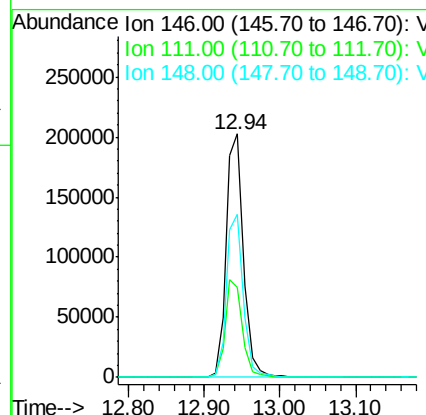
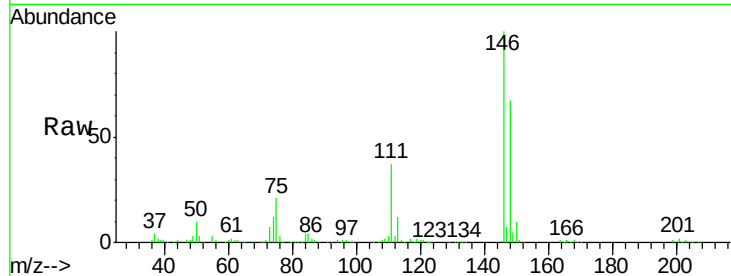
#91
 1,2-Dichlorobenzene
 Concen: 52.918 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
146	100	324431		
111	37.0	19.4	58.4	
148	66.9	33.0	98.9	

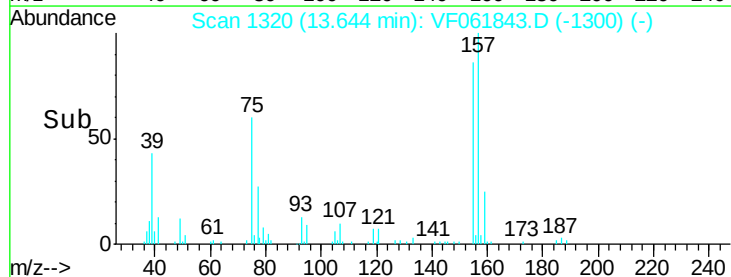
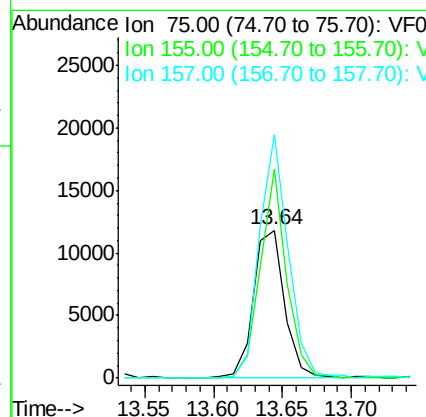
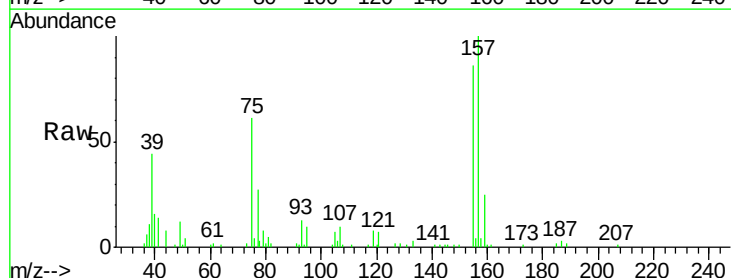
Manual Integrations
 APPROVED

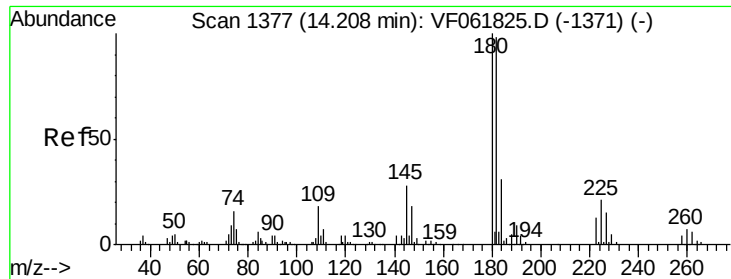
MMDadoda
 3/8/2019 12:12:09 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 46.258 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	18780		
155	141.2	59.8	179.4	
157	164.4	81.2	243.4	





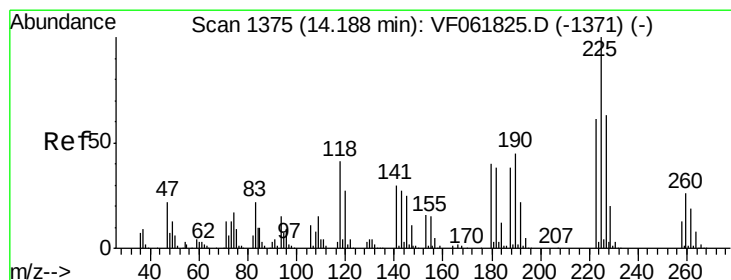
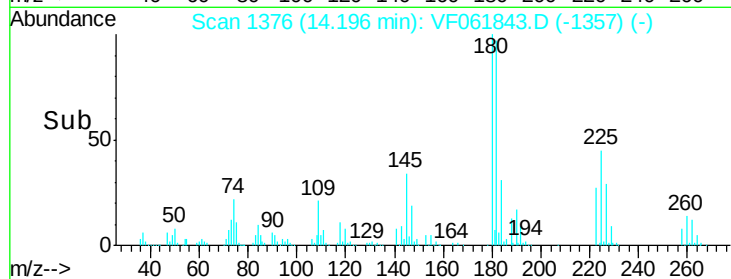
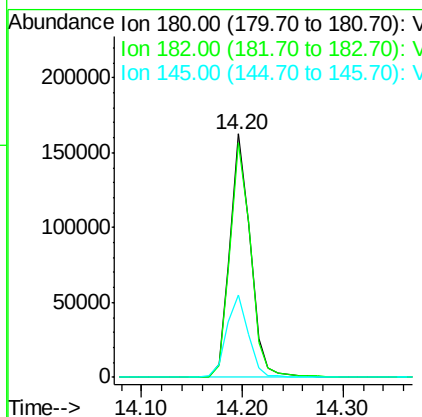
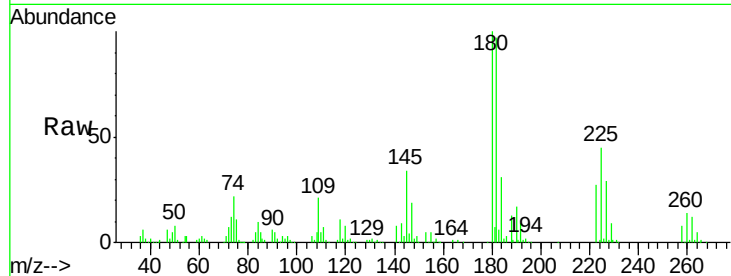
#93
 1,2,4-Trichlorobenzene
 Concen: 53.598 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	230368		
182	96.6	49.0	147.2	
145	33.8	14.1	42.4	

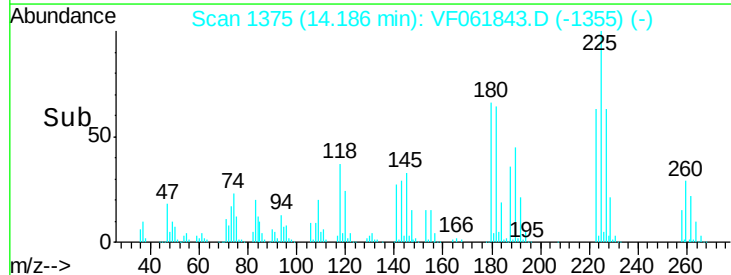
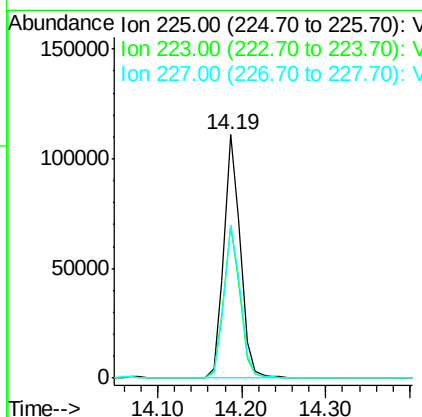
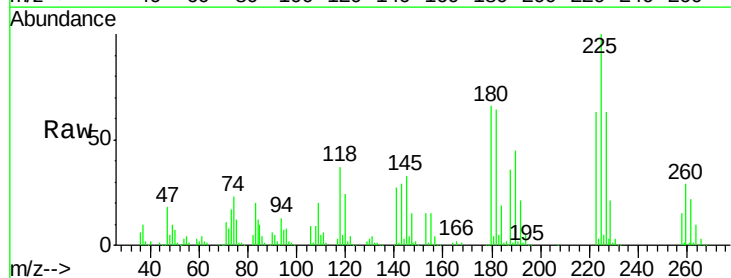
Manual Integrations
 APPROVED

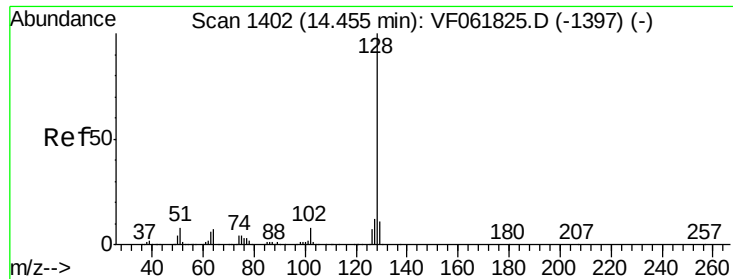
MMDadoda
 3/8/2019 12:12:09 AM



#94
 Hexachlorobutadiene
 Concen: 51.261 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061843.D
 Acq: 5 Mar 2019 13:49

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	152525		
223	62.7	30.3	90.9	
227	62.9	31.3	93.8	





#95

Naphthalene

Concen: 50.723 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Instrument :

MSVOA_F

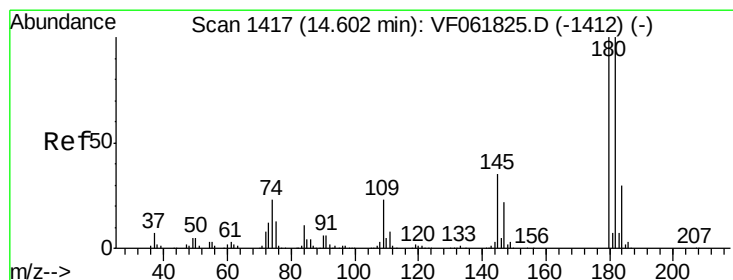
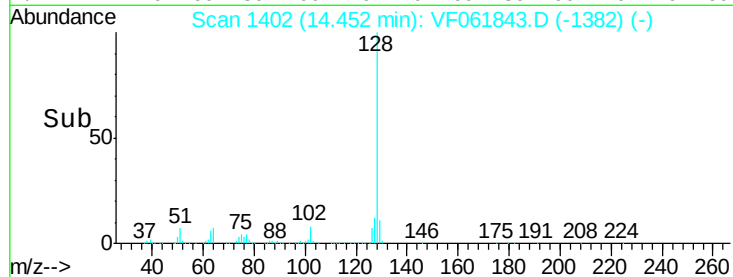
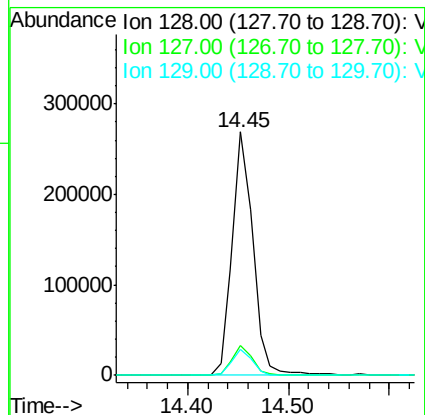
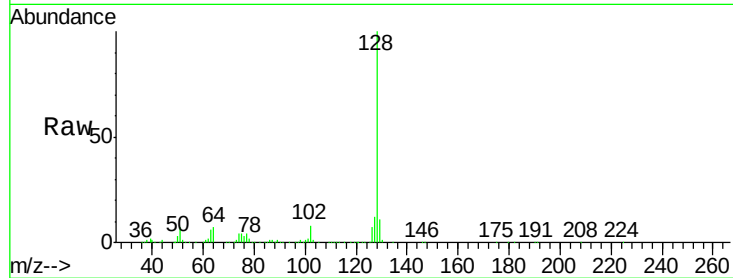
ClientSampleId :

VSTDCCC050

Tot Ion:	128	Resp:	388298
Ion Ratio	Lower	Upper	
128	100		
127	12.5	9.3	13.9
129	10.9	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:09 AM



#96

1,2,3-Trichlorobenzene

Concen: 54.700 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF061843.D

Acq: 5 Mar 2019 13:49

Tgt Ion:	180	Resp:	217076
Ion Ratio	Lower	Upper	
180	100		
182	97.3	50.2	150.7
145	32.9	17.5	52.5

