

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030519\
 Data File : VF061845.D
 Acq On : 5 Mar 2019 15:12
 Operator : VA/AP
 Sample : VF0305SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0305SBS01

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 12:12:11 AM

Quant Time: Mar 06 06:00:46 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	304415	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.59	114	488339	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	394027	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	226498	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	106825	48.19	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	96.38%	
35) Dibromofluoromethane	4.11	113	158130	46.40	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	92.80%	
50) Toluene-d8	7.55	98	466926	46.10	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	92.20%	
62) 4-Bromofluorobenzene	11.41	95	181860	45.83	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	91.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.96	85	90984	24.345	ug/l	89
3) Chloromethane	1.09	50	84050	23.205	ug/l	96
4) Vinyl Chloride	1.14	62	85321	24.815	ug/l	98
5) Bromomethane	1.33	94	50377	21.499	ug/l	93
6) Chloroethane	1.40	64	39380	24.094	ug/l	100
7) Trichlorofluoromethane	1.49	101	101414m	24.150	ug/l	
8) Diethyl Ether	1.63	74	20937	21.925	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	1.84	101	65482	22.962	ug/l	89
10) Methyl Iodide	1.91	142	124535m	22.948	ug/l	
11) Tert butyl alcohol	2.57	59	15258	121.260	ug/l	93
12) 1,1-Dichloroethene	1.80	96	61223	23.516	ug/l	92
13) Acrolein	2.00	56	14567	91.364	ug/l	91
14) Allyl chloride	2.10	41	67850	23.656	ug/l	97
15) Acrylonitrile	2.95	53	45260	112.960	ug/l	89
16) Acetone	2.25	43	59846	128.875	ug/l	93
17) Carbon Disulfide	1.83	76	180849m	22.316	ug/l	
18) Methyl Acetate	2.34	43	24842	27.326	ug/l	99
19) Methyl tert-butyl Ether	2.43	73	98697	22.410	ug/l	97
20) Methylene Chloride	2.18	84	64508m	22.066	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	55133	22.501	ug/l	94
22) Diisopropyl ether	2.80	45	170574	22.863	ug/l	93
23) Vinyl Acetate	3.18	43	377415	113.235	ug/l	98
24) 1,1-Dichloroethane	2.87	63	104227	23.372	ug/l	99
25) 2-Butanone	4.34	43	111871	118.435	ug/l	99
26) 2,2-Dichloropropane	3.59	77	44359	22.283	ug/l	97
27) cis-1,2-Dichloroethene	3.48	96	76835	22.634	ug/l	91
28) Bromochloromethane	3.71	49	42633	21.932	ug/l #	95
29) Tetrahydrofuran	4.08	42	44341	108.847	ug/l	98
30) Chloroform	3.85	83	122006	23.953	ug/l	97
31) Cyclohexane	3.68	56	107817m	23.083	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	69328	22.081	ug/l	93
36) 1,1-Dichloropropene	4.28	75	99832	21.642	ug/l	99
37) Ethyl Acetate	4.11	43	39009	20.147	ug/l	98
38) Carbon Tetrachloride	3.99	117	73261	22.435	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	114134	20.948	ug/l	94
40) Benzene	4.63	78	261491	21.687	ug/l	98
41) Methacrylonitrile	4.74	41	22604	21.308	ug/l	96
42) 1,2-Dichloroethane	4.94	62	64838	21.578	ug/l	97
43) Isopropyl Acetate	6.96	43	45076	18.887	ug/l	99
44) Trichloroethene	5.50	130	85860	22.914	ug/l	98
45) 1,2-Dichloropropane	6.23	63	63710	22.220	ug/l	100
46) Dibromomethane	6.08	93	35065	19.432	ug/l	93
47) Bromodichloromethane	6.38	83	86401	21.673	ug/l	98
48) Methyl methacrylate	6.71	41	30677	20.310	ug/l	93
49) 1,4-Dioxane	6.70	88	5465	395.787	ug/l	88
51) 4-Methyl-2-Pentanone	8.25	43	170233	103.201	ug/l	98
52) Toluene	7.62	92	153157	21.472	ug/l	98
53) t-1,3-Dichloropropene	8.27	75	69709	21.183	ug/l	98
54) cis-1,3-Dichloropropene	7.29	75	96312	21.219	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	41553	20.219	ug/l	99
56) Ethyl methacrylate	8.62	69	46346	20.010	ug/l	97
57) 1,3-Dichloropropane	8.85	76	68712	20.444	ug/l	96
58) 2-Chloroethyl Vinyl ether	7.29	63	38017	103.758	ug/l	99
59) 2-Hexanone	9.49	43	122048	102.562	ug/l	97
60) Dibromochloromethane	8.71	129	62274	21.260	ug/l	98
61) 1,2-Dibromoethane	8.98	107	45769	20.251	ug/l	100
64) Tetrachloroethene	8.15	164	70537	23.297	ug/l	98
65) Chlorobenzene	9.80	112	171118	22.604	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	70225	23.943	ug/l	97
67) Ethyl Benzene	9.90	91	304194	24.244	ug/l	99
68) m/p-Xylenes	10.12	106	217319	45.212	ug/l	95
69) o-Xylene	10.71	106	124601	24.074	ug/l	94
70) Styrene	10.78	104	170196	23.365	ug/l	97
71) Bromoform	10.77	173	33557	21.648	ug/l	98
73) Isopropylbenzene	11.12	105	348108	22.324	ug/l	98
74) N-amyl acetate	11.37	43	77459	21.578	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.69	83	52727	20.345	ug/l	98
76) 1,2,3-Trichloropropane	11.79	75	38248	21.624	ug/l	95
77) Bromobenzene	11.49	156	80120	21.350	ug/l	91
78) n-propylbenzene	11.59	91	395795	22.477	ug/l	98
79) 2-Chlorotoluene	11.72	91	222409	22.092	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	282865	22.594	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.87	75	17628m	21.795	ug/l	
82) 4-Chlorotoluene	11.90	91	227377	22.081	ug/l	96
83) tert-Butylbenzene	12.13	119	304354	22.895	ug/l	91
84) 1,2,4-Trimethylbenzene	12.20	105	268711	21.895	ug/l	97
85) sec-Butylbenzene	12.30	105	390346	22.564	ug/l	97
86) p-Isopropyltoluene	12.46	119	329338	22.396	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	159655	22.405	ug/l	97
88) 1,4-Dichlorobenzene	12.56	146	153589	22.344	ug/l	98
89) n-Butylbenzene	12.85	91	322586	22.955	ug/l	96
90) Hexachloroethane	12.91	117	76675	21.663	ug/l	84
91) 1,2-Dichlorobenzene	12.94	146	153804	22.782	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8235	20.687	ug/l	93

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QLast Update : Tue Mar 05 04:50:44 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	106898	22.585	ug/l	96
94) Hexachlorobutadiene	14.19	225	68202	20.815	ug/l	94
95) Naphthalene	14.45	128	171504	20.344	ug/l	99
96) 1,2,3-Trichlorobenzene	14.60	180	97541	22.320	ug/l	93

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

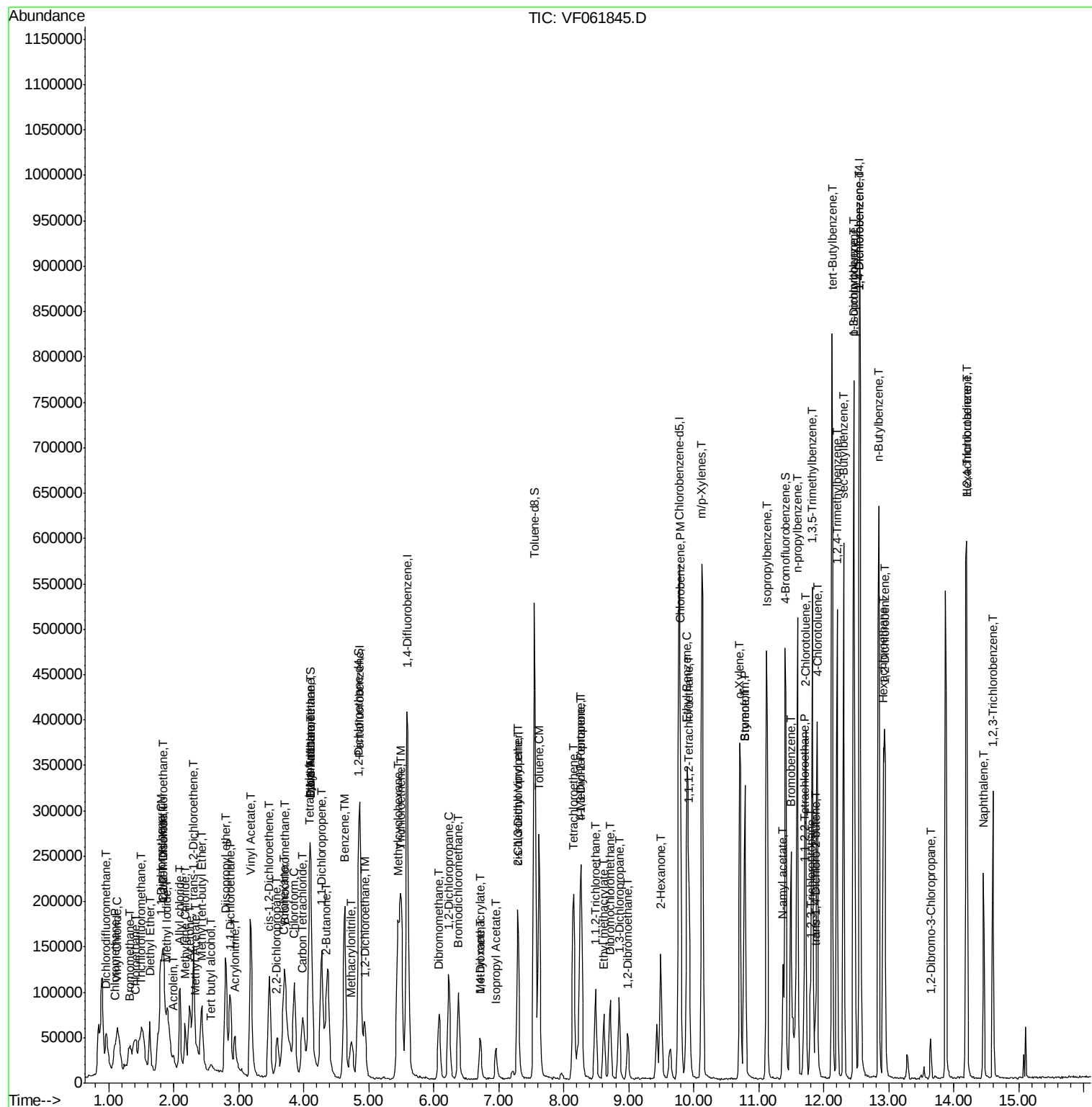
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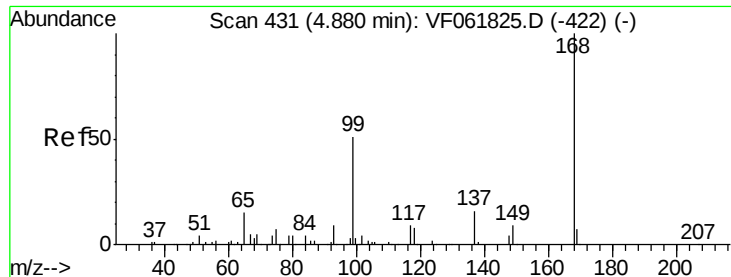
Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion:168 Resp: 304415

Ion Ratio Lower Upper

168 100

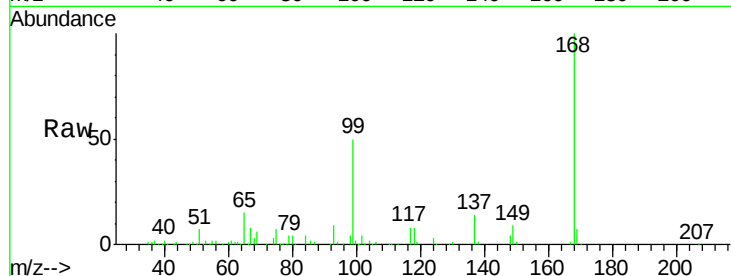
99 50.3 40.8 61.2

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

100000

80000

60000

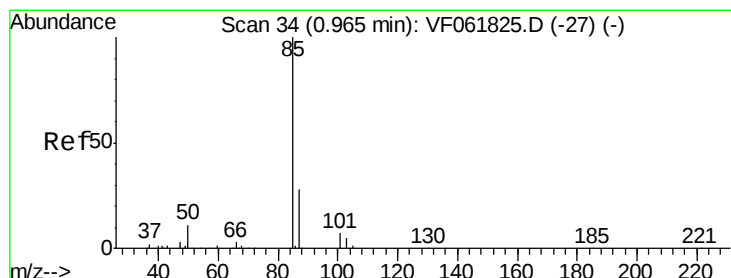
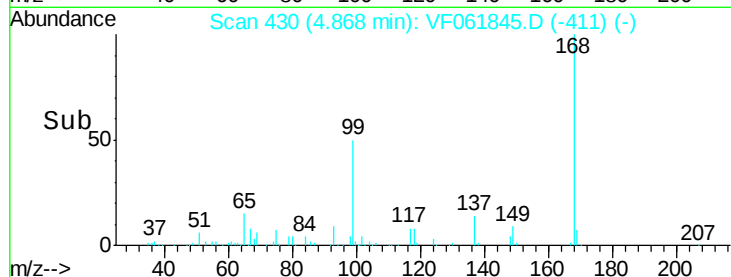
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 24.345 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061845.D

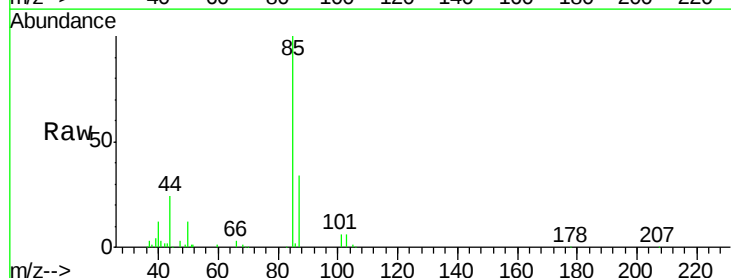
Acq: 5 Mar 2019 15:12

Tgt Ion: 85 Resp: 90984

Ion Ratio Lower Upper

85 100

87 33.8 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

25000

20000

15000

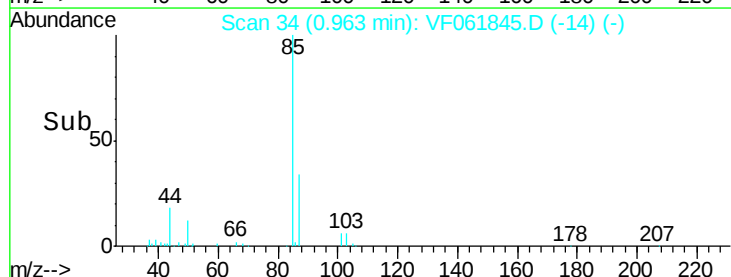
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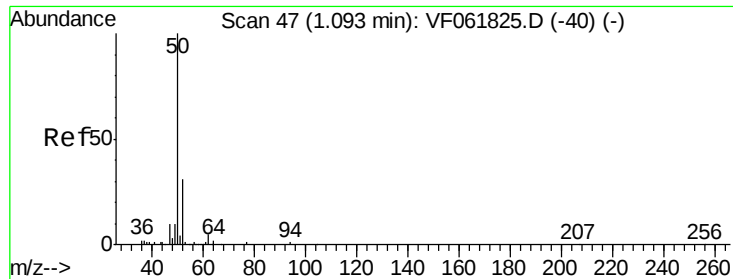
5000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 23.205 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion: 50 Resp: 84050

Ion Ratio Lower Upper

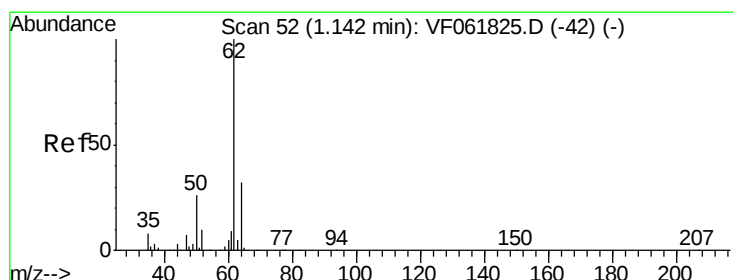
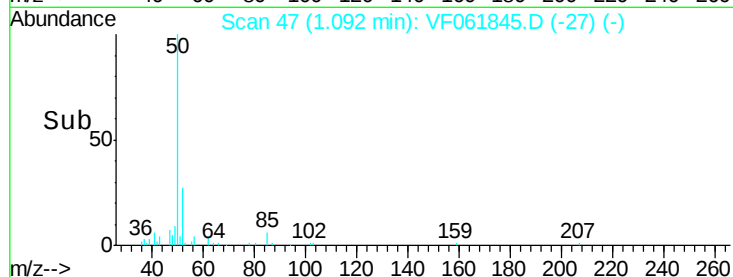
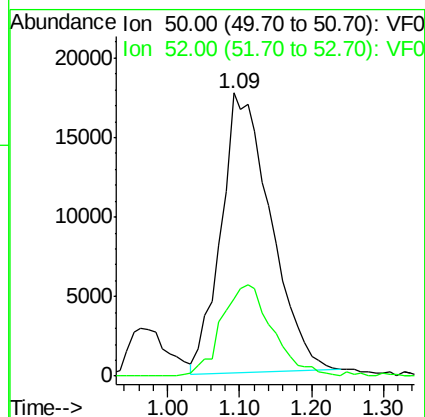
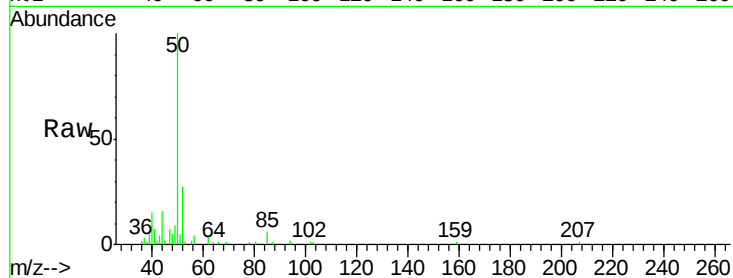
50 100

52 27.5 23.8 35.8

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#4

Vinyl Chloride

Concen: 24.815 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061845.D

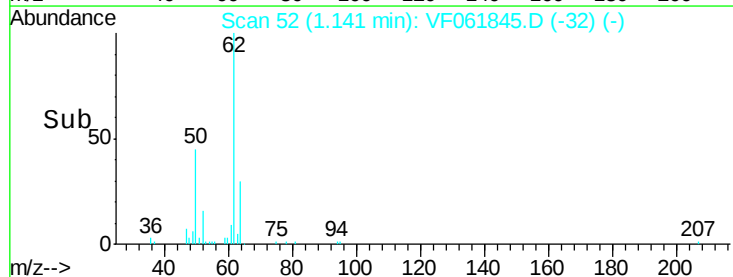
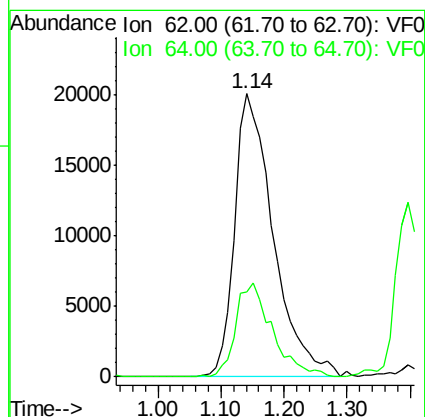
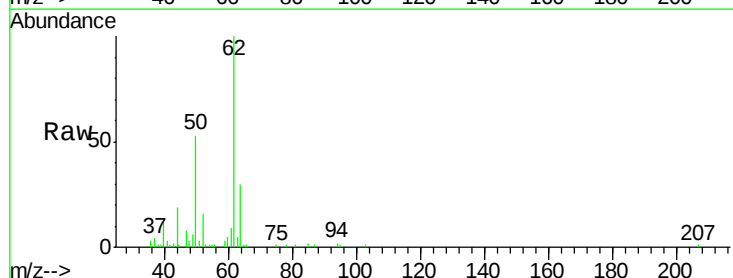
Acq: 5 Mar 2019 15:12

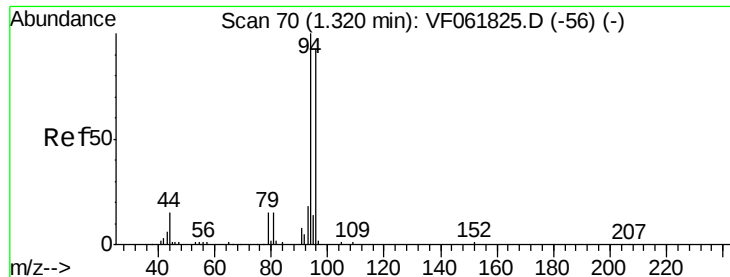
Tgt Ion: 62 Resp: 85321

Ion Ratio Lower Upper

62 100

64 30.2 25.2 37.8





#5

Bromomethane

Concen: 21.499 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion: 94 Resp: 50377

Ion Ratio Lower Upper

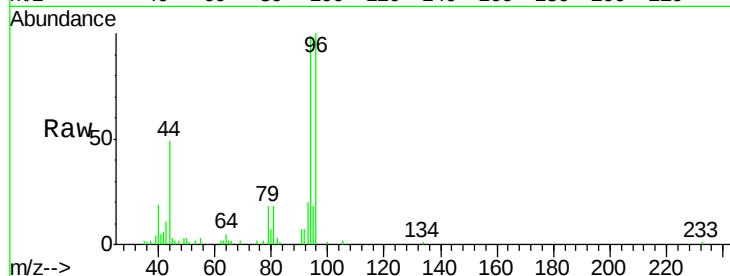
94 100

96 101.1 75.2 112.8

Manual Integrations
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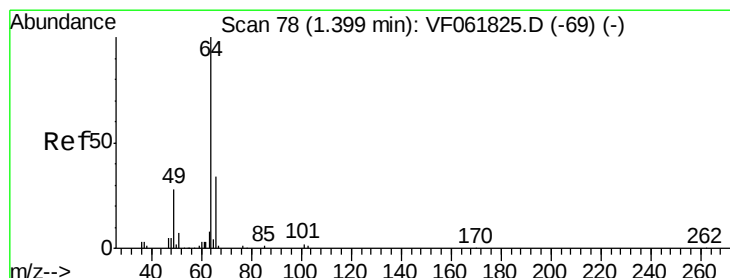
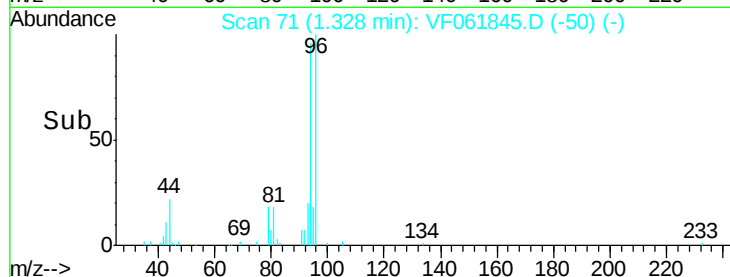
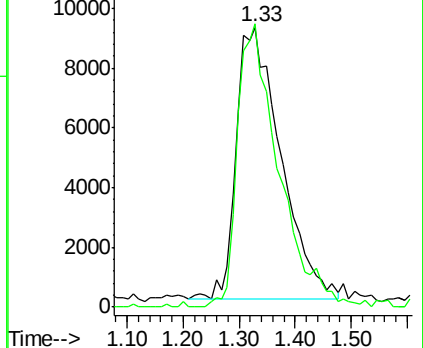
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 24.094 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF061845.D

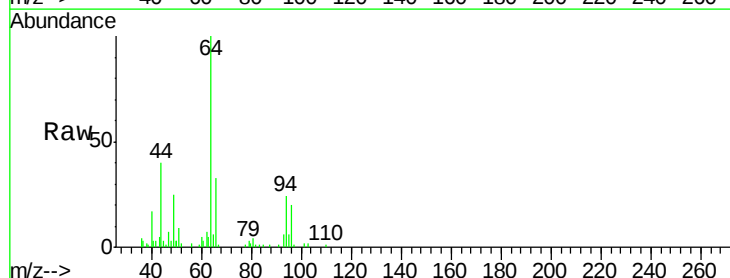
Acq: 5 Mar 2019 15:12

Tgt Ion: 64 Resp: 39380

Ion Ratio Lower Upper

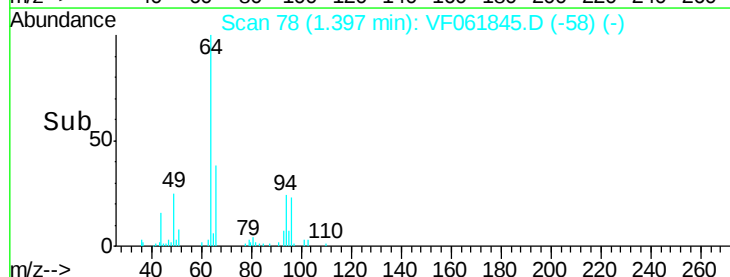
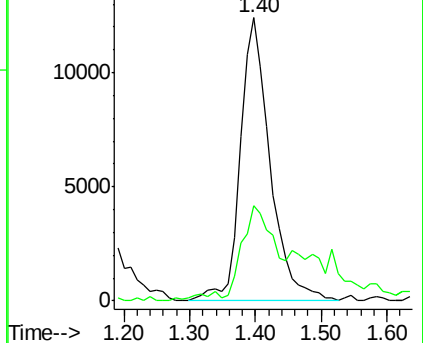
64 100

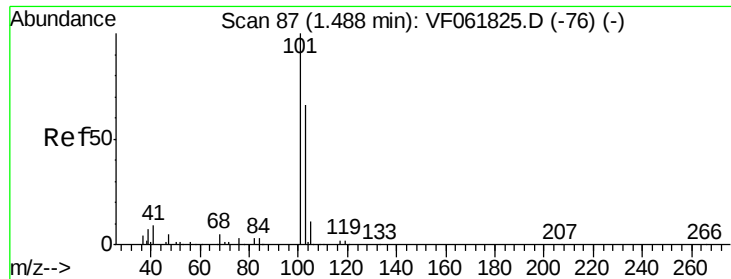
66 33.5 27.0 40.4



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

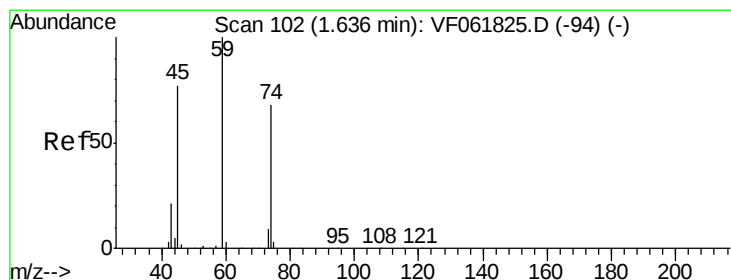
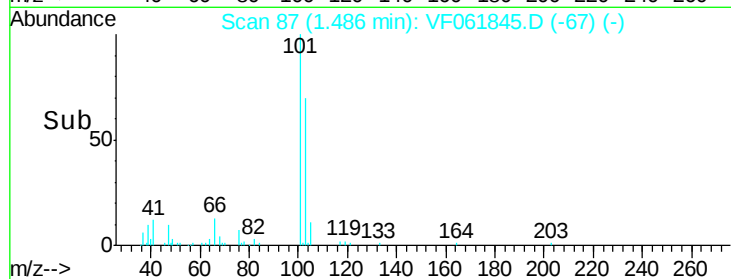
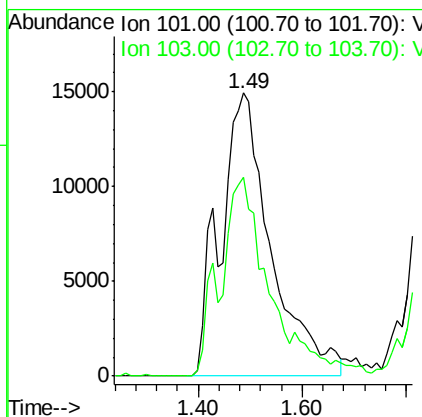
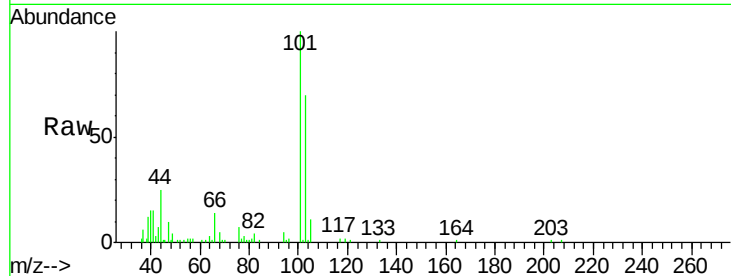
Trichlorofluoromethane
Concen: 24.150 ug/l
RT: 1.49 min Scan# 87
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	70.1	52.8	79.2

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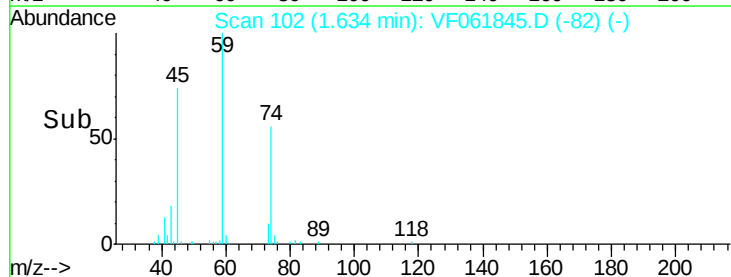
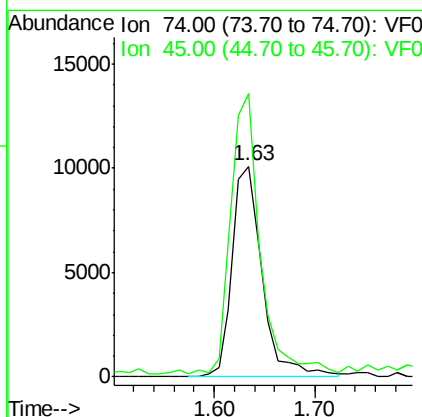
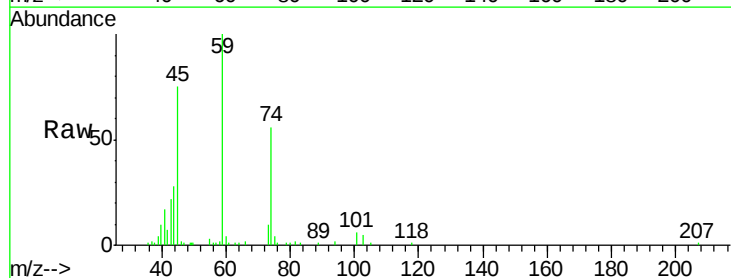
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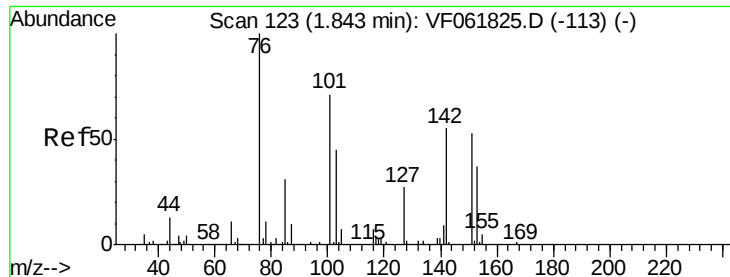


#8

Diethyl Ether
Concen: 21.925 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
74	100		
45	134.3	57.2	171.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.962 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

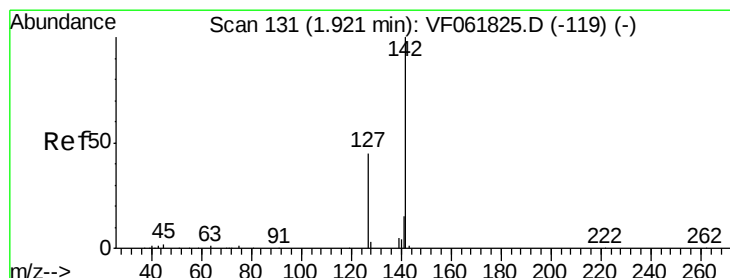
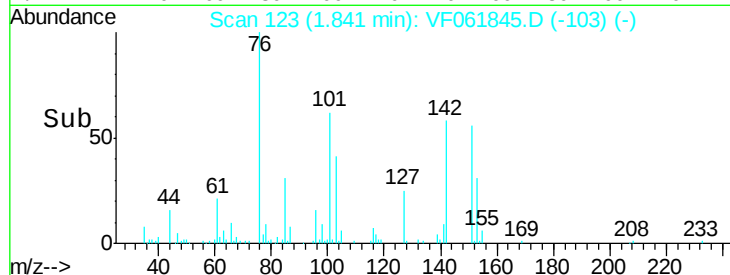
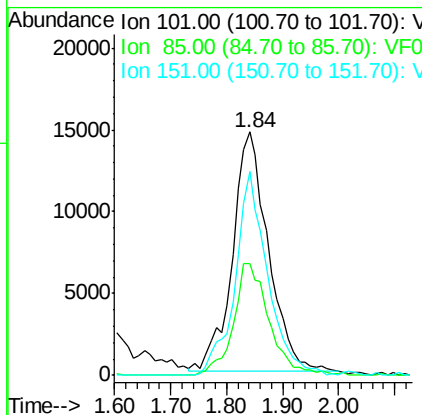
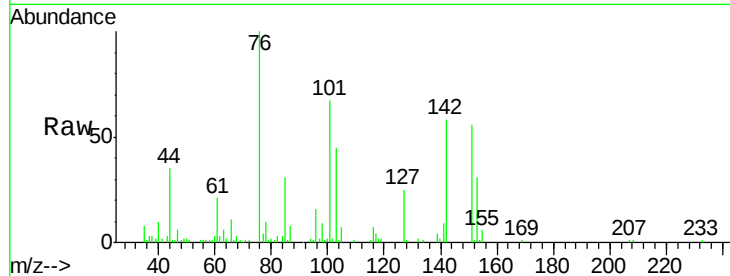
ClientSampleId :

VF0305SBS01

Tot Ion:	101	Resp:	65482
Ion Ratio	Lower	Upper	
101	100		
85	45.8	34.0	51.0
151	83.5	57.3	85.9

Manual Integrations
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#10

Methyl Iodide

Concen: 22.948 ug/l m

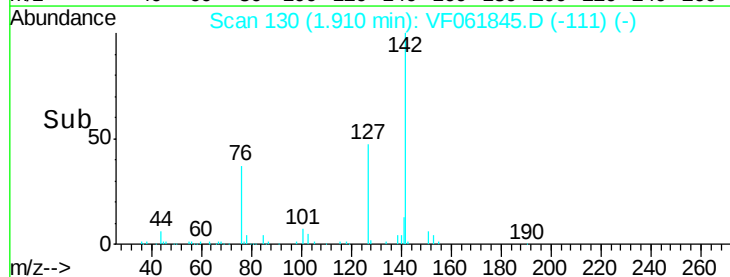
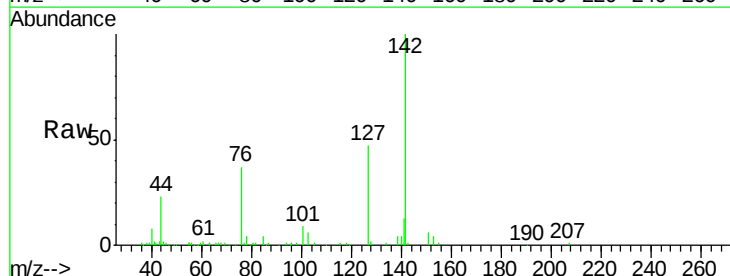
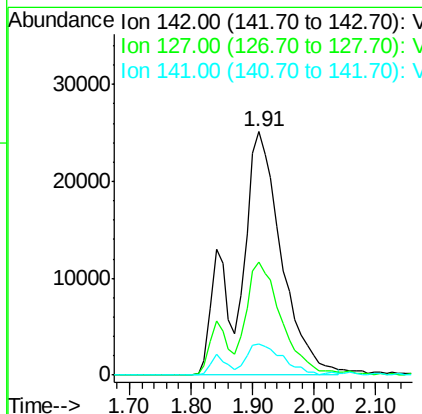
RT: 1.91 min Scan# 130

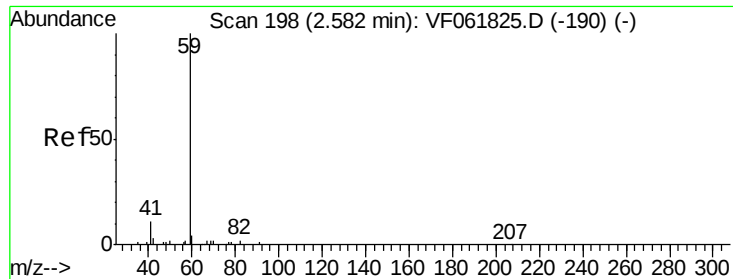
Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion:	142	Resp:	124535
Ion Ratio	Lower	Upper	
142	100		
127	46.6	35.8	53.6
141	12.9	11.7	17.5





#11

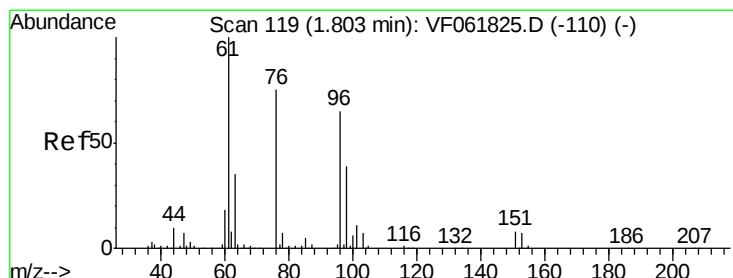
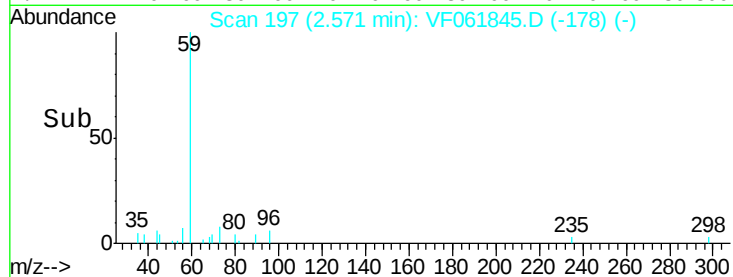
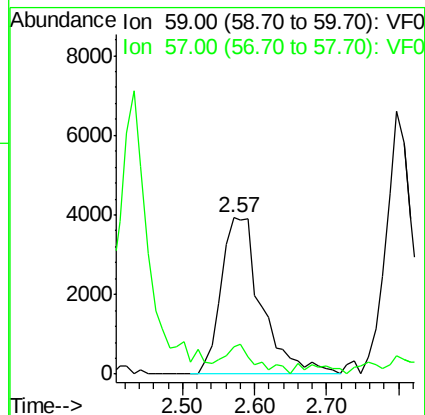
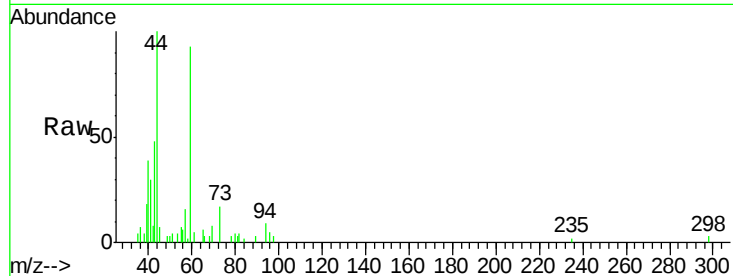
Tert butyl alcohol
Concen: 121.260 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion: 59 Resp: 15258
Ion Ratio Lower Upper
59 100
57 17.4 11.8 17.6

Manual Integrations
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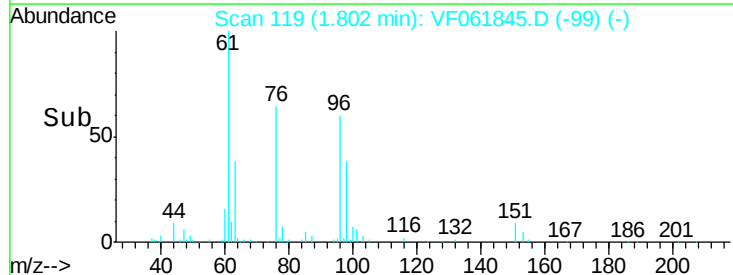
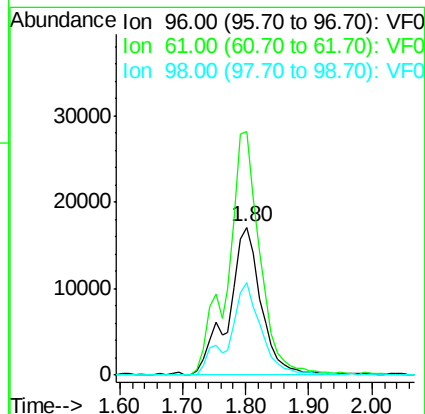
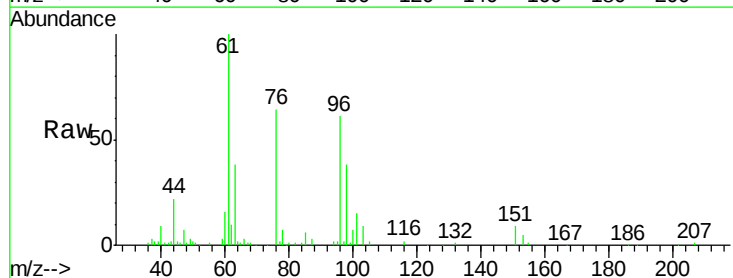
MMDadoda
3/8/2019 12:12:11 AM

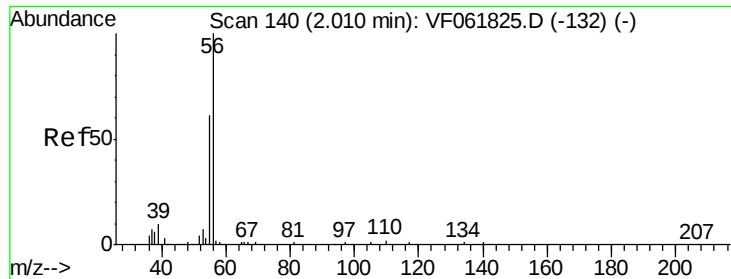


#12

1,1-Dichloroethene
Concen: 23.516 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion: 96 Resp: 61223
Ion Ratio Lower Upper
96 100
61 164.9 122.5 183.7
98 62.4 47.1 70.7





#13

Acrolein

Concen: 91.364 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion: 56 Resp: 14567

Ion Ratio Lower Upper

56 100

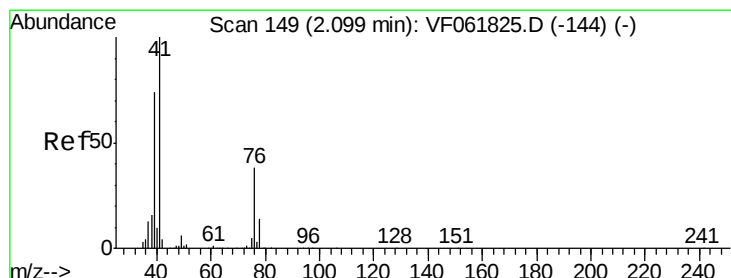
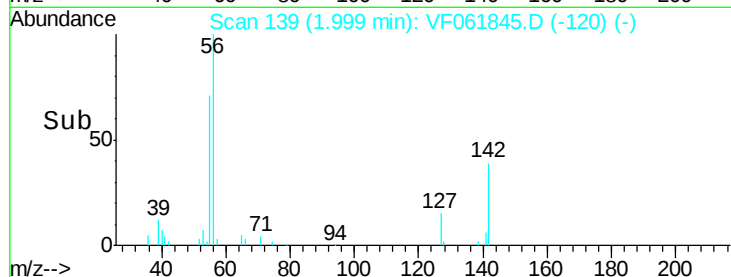
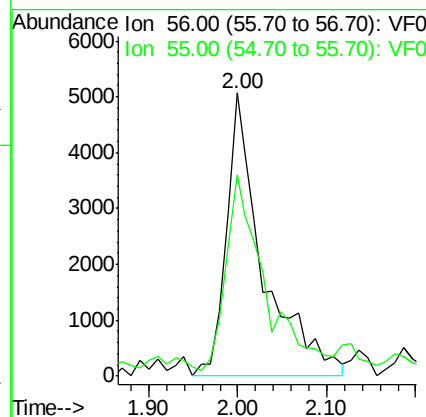
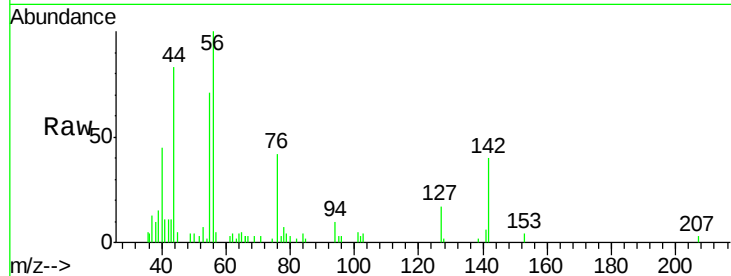
55 71.3 51.3 76.9

Manual Integrations

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#14

Allyl chloride

Concen: 23.656 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

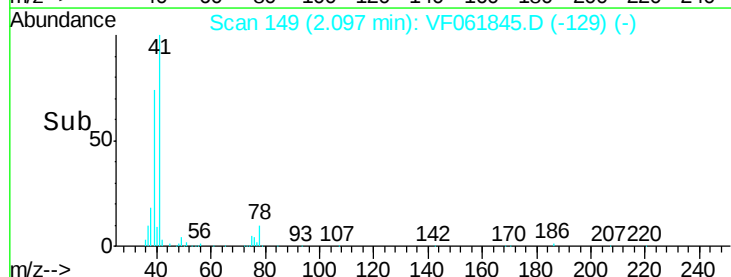
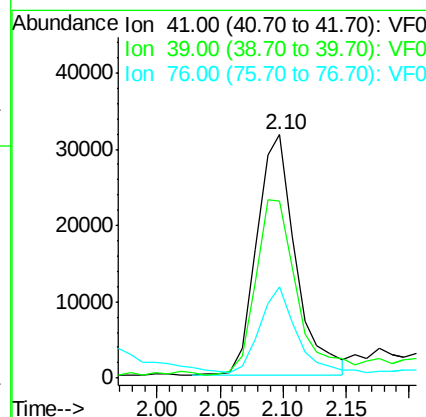
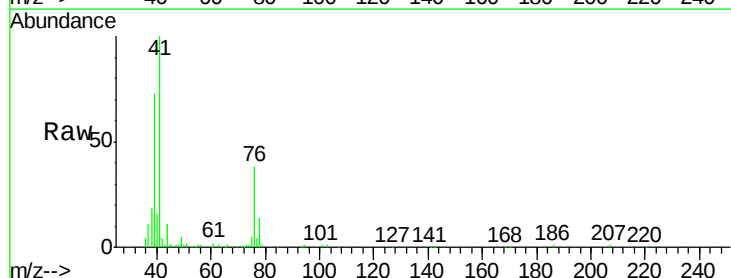
Tgt Ion: 41 Resp: 67850

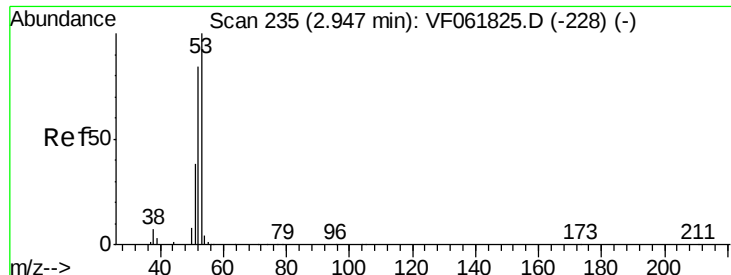
Ion Ratio Lower Upper

41 100

39 72.6 59.6 89.4

76 37.5 32.3 48.5





#15

Acrylonitrile

Concen: 112.960 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

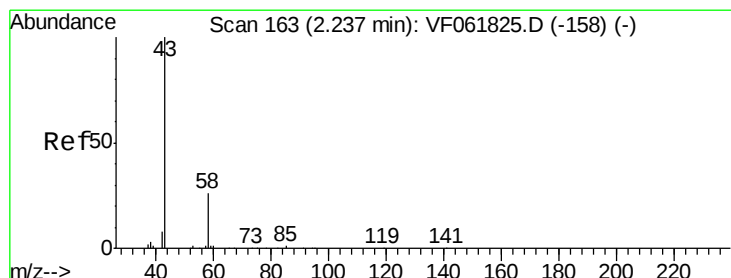
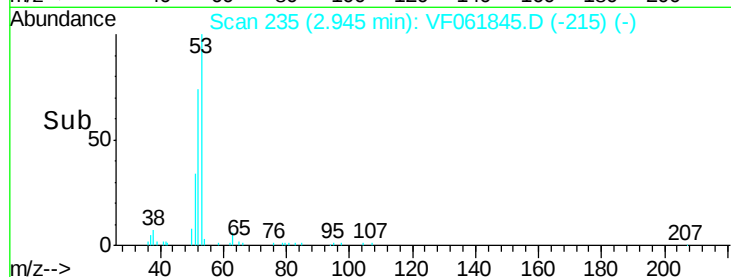
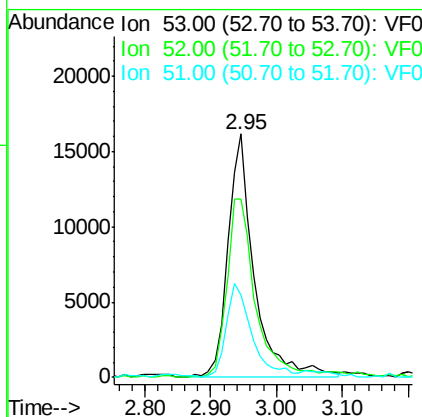
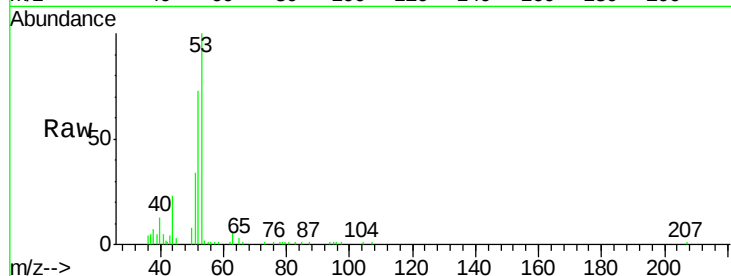
ClientSampleId :

VF0305SBS01

Tot Ion:	53	Resp:	45260
Ion	Ratio	Lower	Upper
53	100		
52	73.4	67.4	101.0
51	33.7	30.7	46.1

Manual Integrations
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#16

Acetone

Concen: 128.875 ug/l

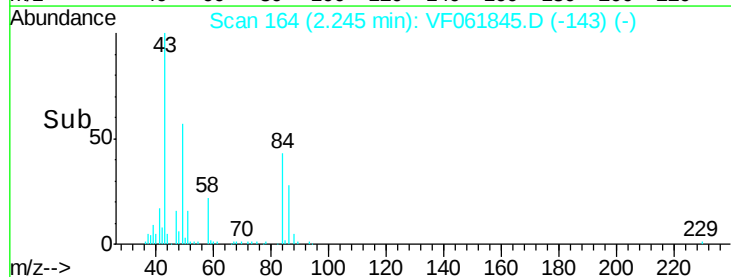
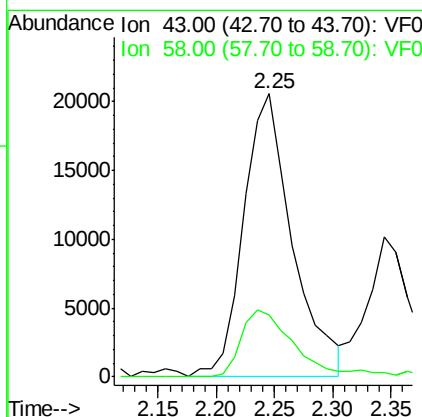
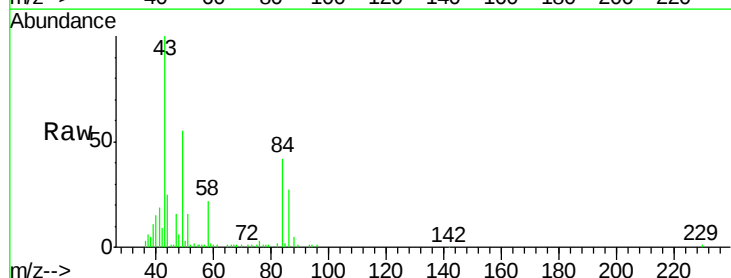
RT: 2.25 min Scan# 164

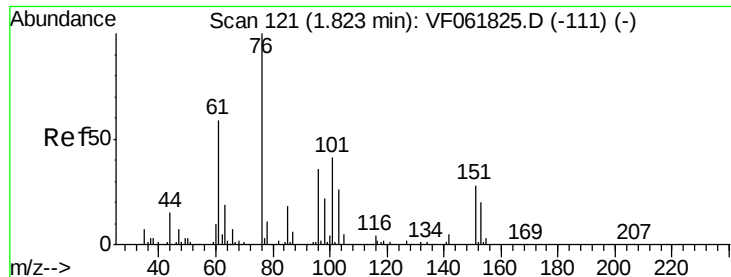
Delta R.T. 0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion:	43	Resp:	59846
Ion	Ratio	Lower	Upper
43	100		
58	22.1	20.3	30.5





#17

Carbon Disulfide

Concen: 22.316 ug/l m

RT: 1.83 min Scan# 122

Delta R.T. 0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tot Ion: 76 Resp: 180849

Ion Ratio Lower Upper

76 100

78 9.9 9.1 13.7

Instrument :

MSVOA_F

ClientSampleId :

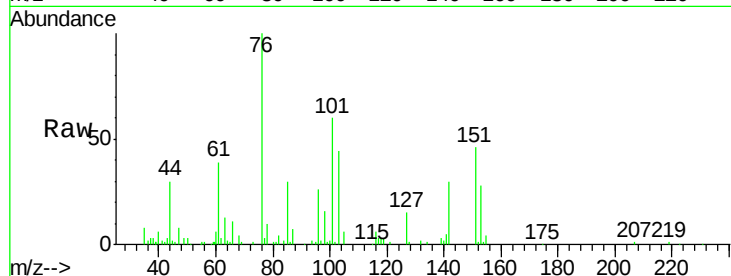
VF0305SBS01

Manual Integrations

APPROVED

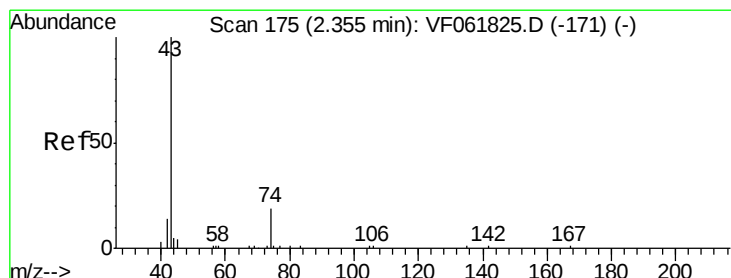
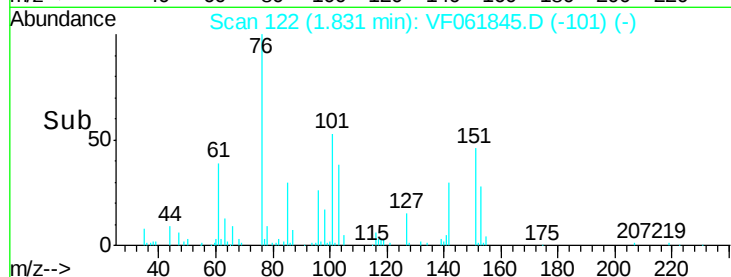
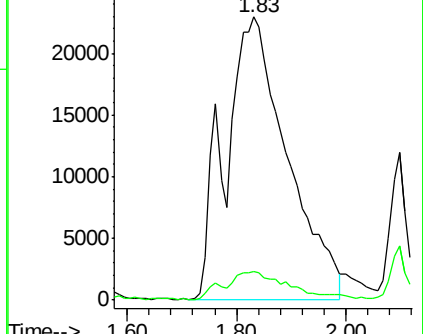
MMDadoda

3/8/2019 12:12:11 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 27.326 ug/l

RT: 2.34 min Scan# 174

Delta R.T. -0.01 min

Lab File: VF061845.D

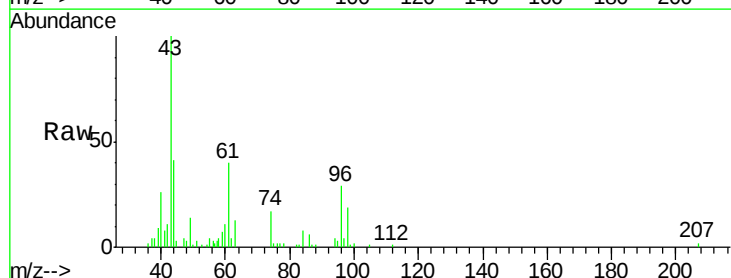
Acq: 5 Mar 2019 15:12

Tgt Ion: 43 Resp: 24842

Ion Ratio Lower Upper

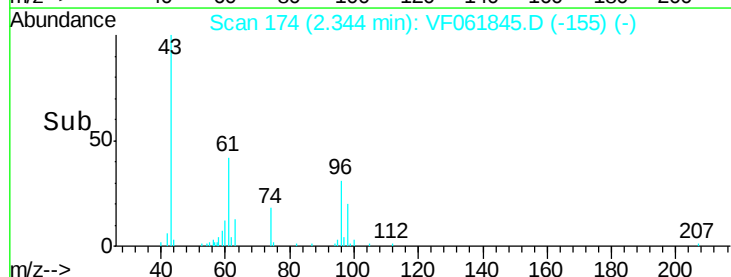
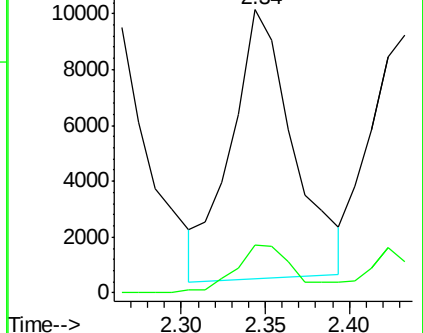
43 100

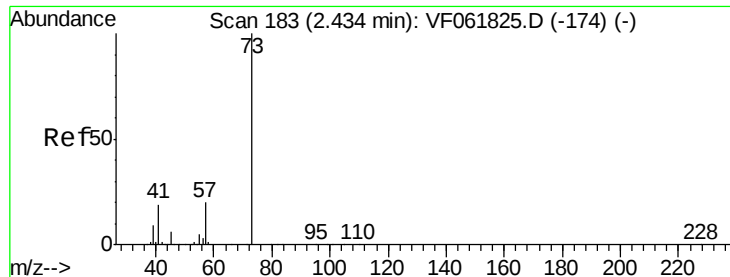
74 16.8 13.2 19.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





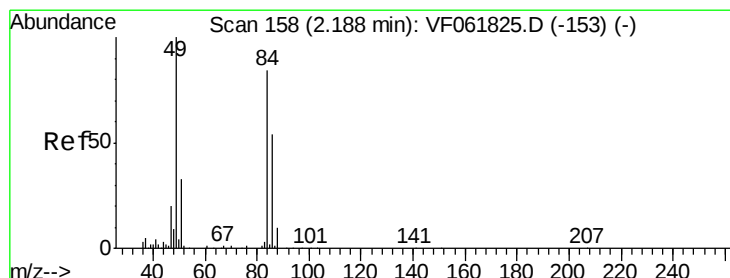
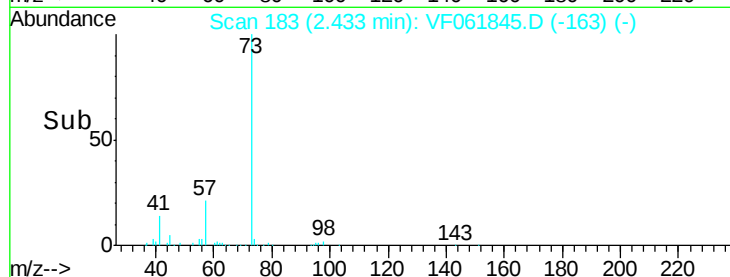
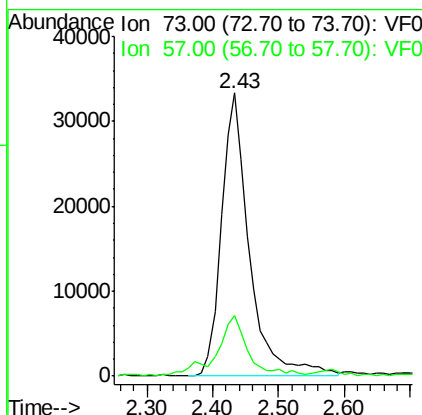
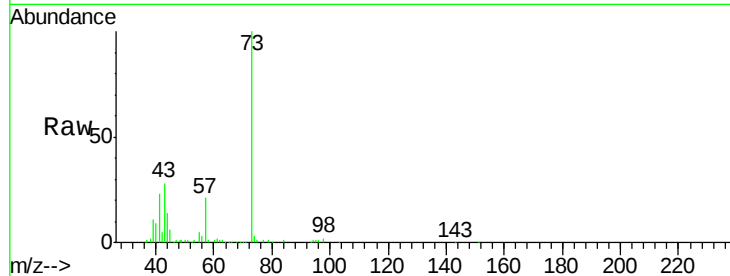
#19
Methyl tert-butyl Ether
Concen: 22.410 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ion	Ratio	Lower	Upper
73	73	100		
57	57	21.3	16.1	24.1

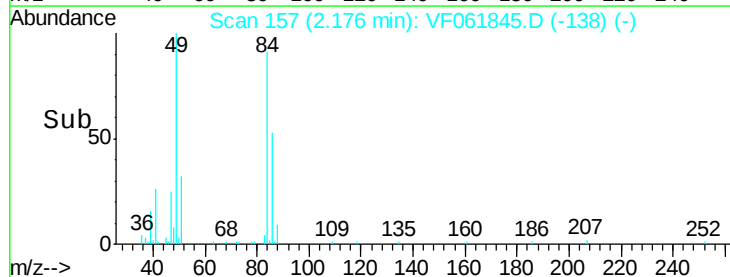
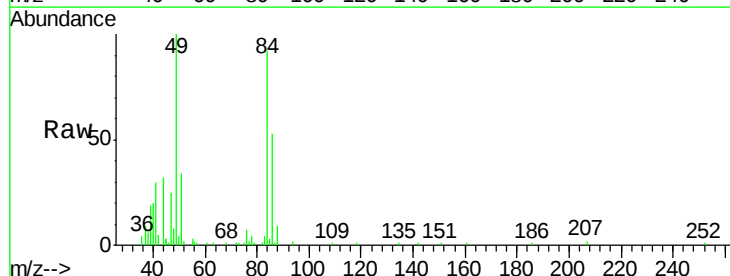
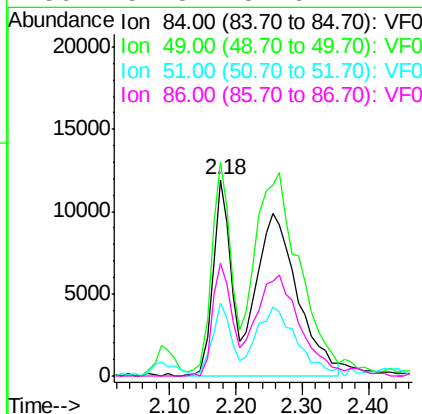
Manual Integrations
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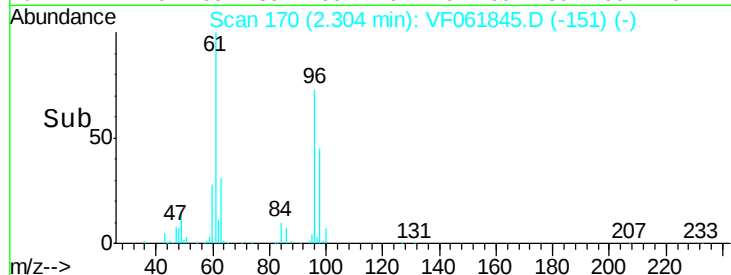
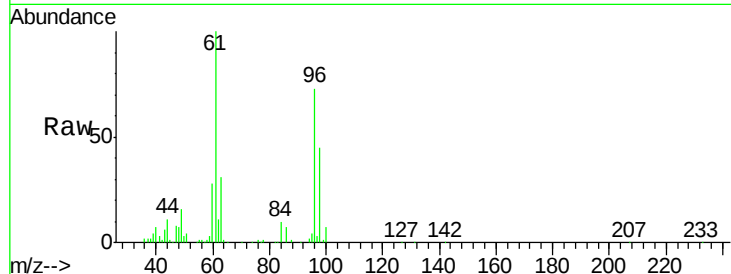
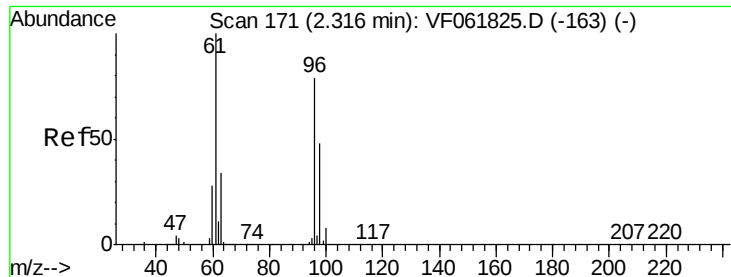
MMDadoda
3/8/2019 12:12:11 AM



#20
Methylene Chloride
Concen: 22.066 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ion	Ratio	Lower	Upper
84	84	100		
49	49	109.0	96.8	145.2
51	51	37.0	31.8	47.6
86	86	57.8	51.6	77.4





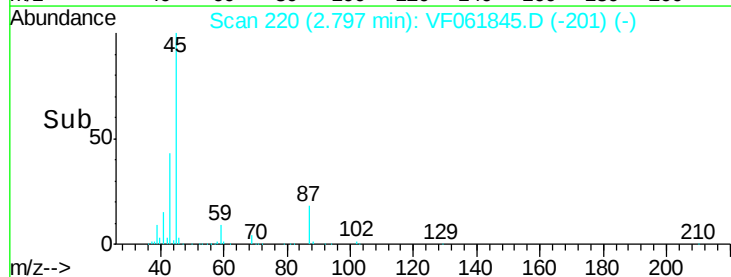
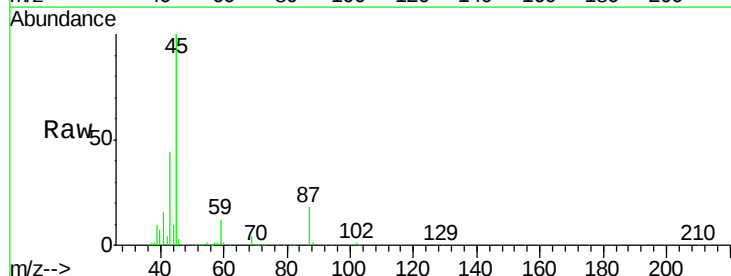
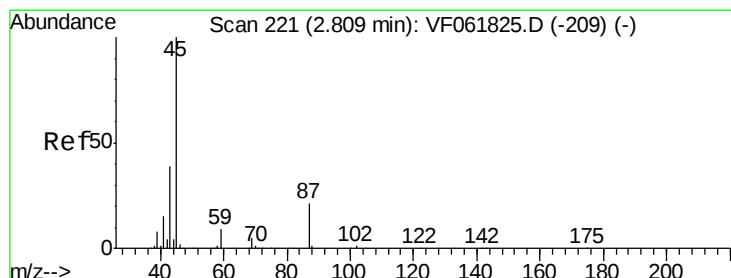
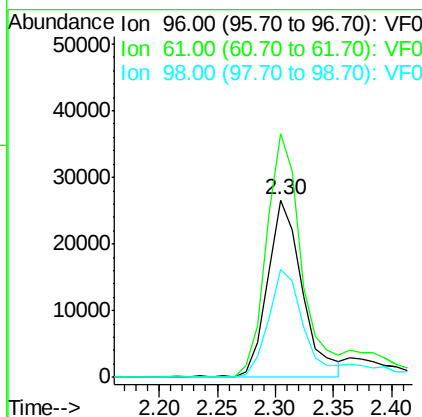
#21
trans-1,2-Dichloroethene
Concen: 22.501 ug/l
RT: 2.30 min Scan# 170
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tot Ion:	96	Resp:	55133
Ion	Ratio	Lower	Upper
96	100		
61	137.2	101.0	151.6
98	61.2	48.8	73.2

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

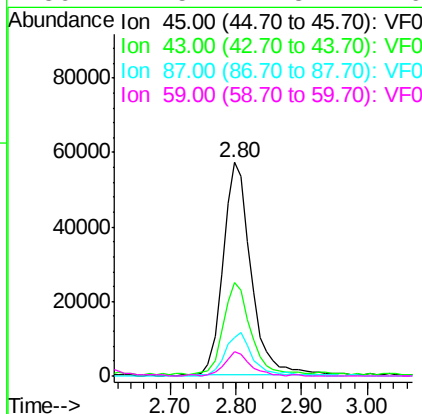
Manual Integrations
APPROVED

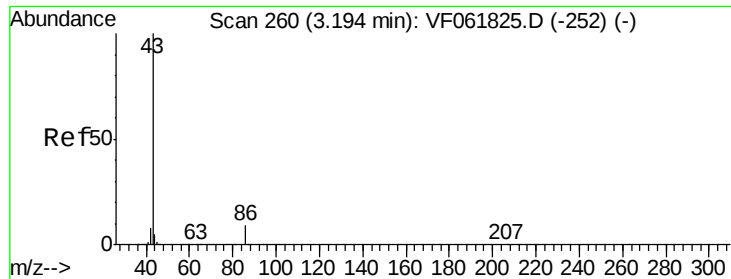
MMDadoda
3/8/2019 12:12:11 AM



#22
Diisopropyl ether
Concen: 22.863 ug/l
RT: 2.80 min Scan# 220
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion:	45	Resp:	170574
Ion	Ratio	Lower	Upper
45	100		
43	43.8	31.8	47.8
87	17.7	17.1	25.7
59	11.5	7.8	11.6





#23

Vinyl Acetate

Concen: 113.235 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion: 43 Resp: 377415

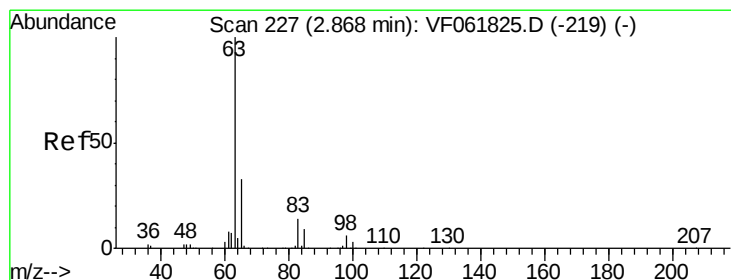
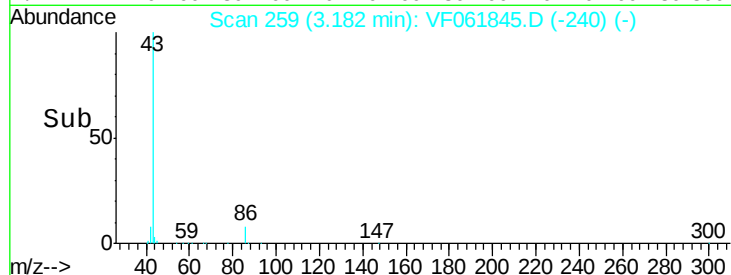
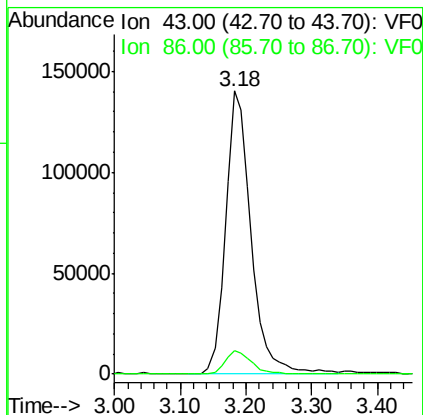
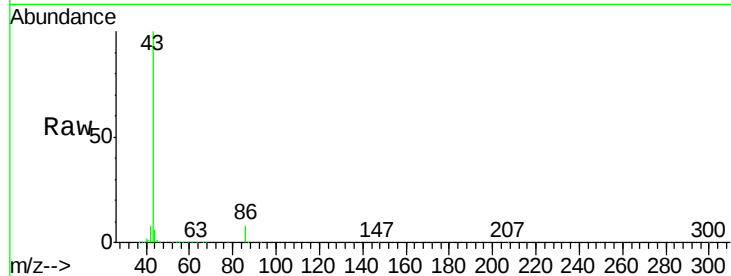
Ion Ratio Lower Upper

43 100

86 8.1 7.0 10.4

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:11 AM



#24

1,1-Dichloroethane

Concen: 23.372 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

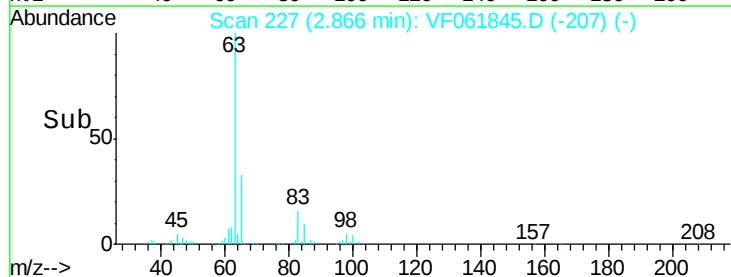
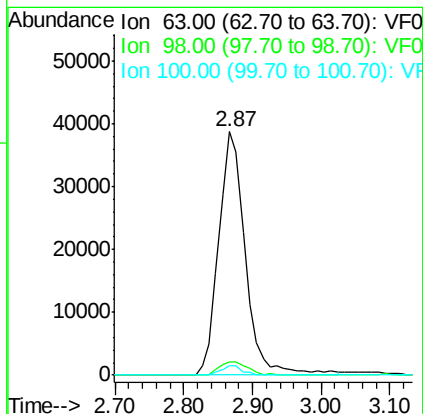
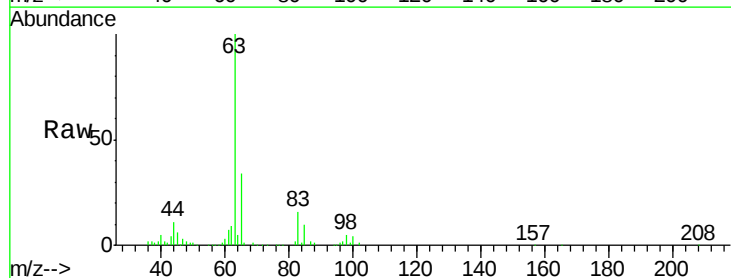
Tgt Ion: 63 Resp: 104227

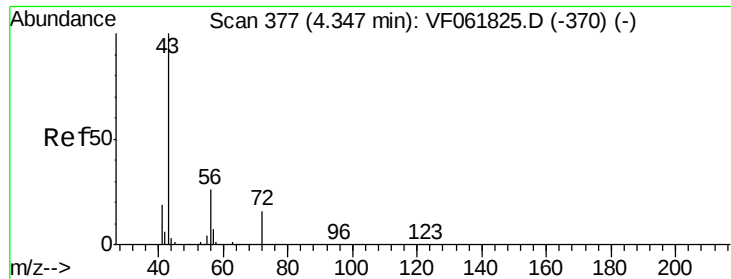
Ion Ratio Lower Upper

63 100

98 5.3 2.9 8.6

100 4.0 1.8 5.3





#25

2-Butanone

Concen: 118.435 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion: 43 Resp: 111871

Ion Ratio Lower Upper

43 100

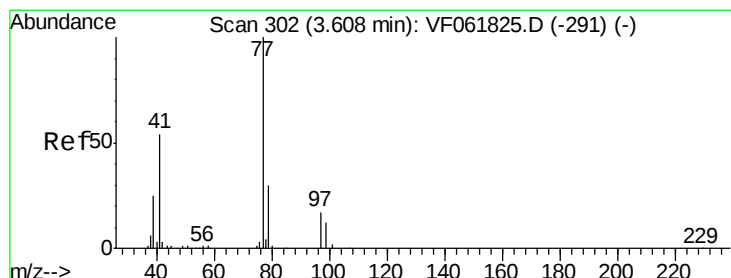
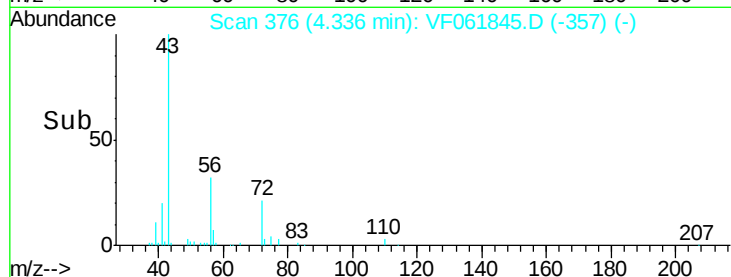
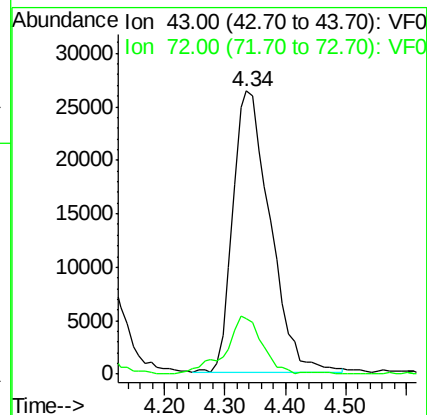
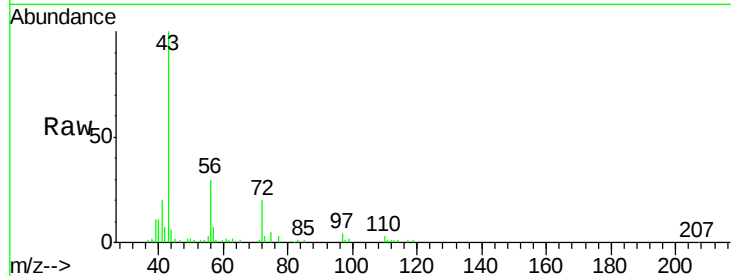
72 19.7 16.2 24.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 22.283 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.02 min

Lab File: VF061845.D

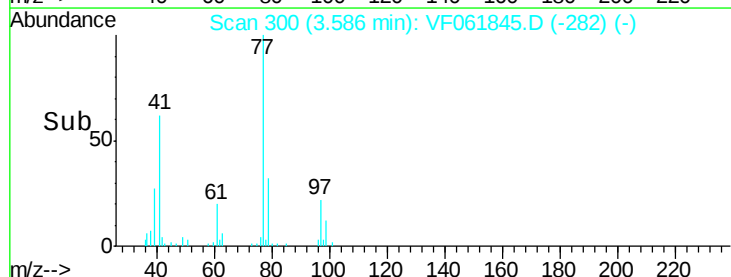
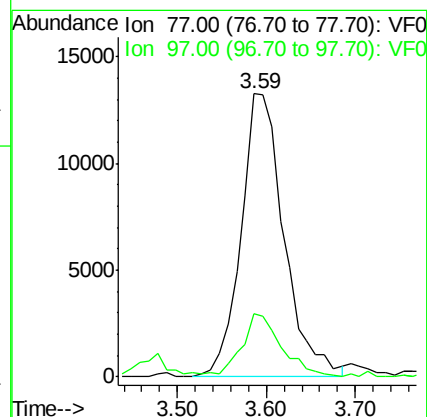
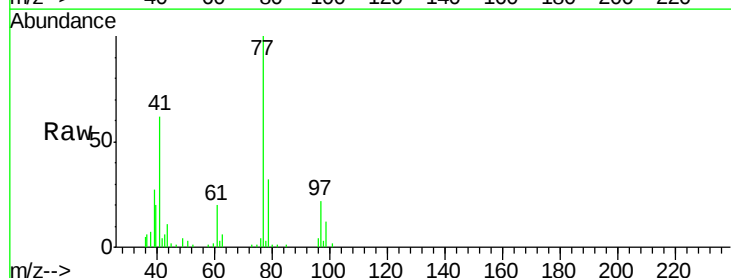
Acq: 5 Mar 2019 15:12

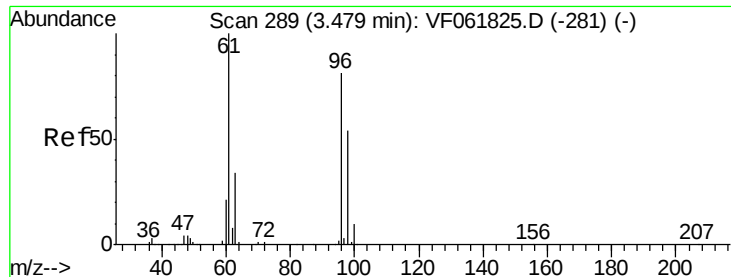
Tgt Ion: 77 Resp: 44359

Ion Ratio Lower Upper

77 100

97 22.2 10.4 31.4





#27

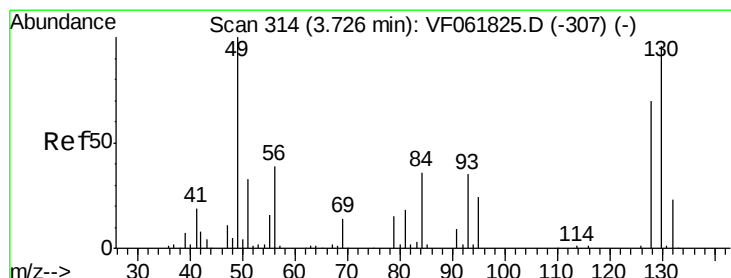
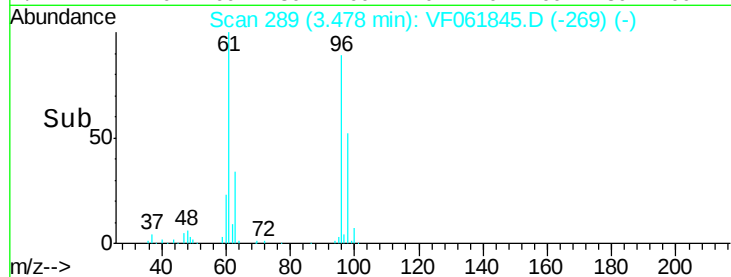
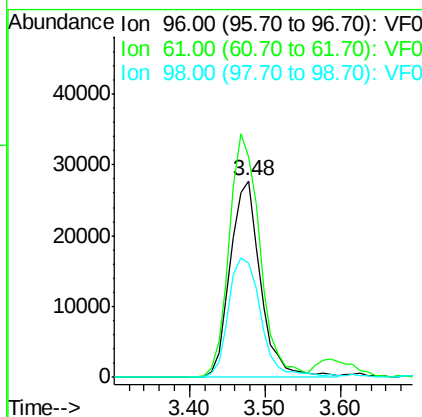
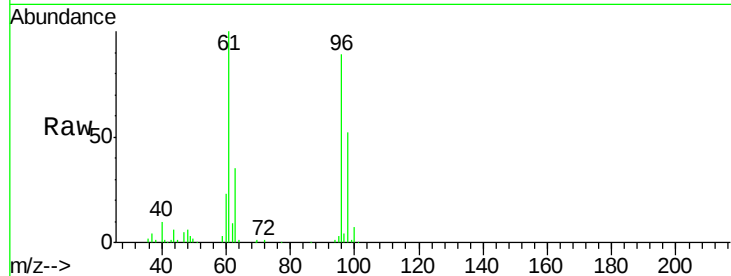
cis-1,2-Dichloroethene
Concen: 22.634 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	112.5	0.0	245.8
98	58.4	0.0	132.6

Manual Integrations
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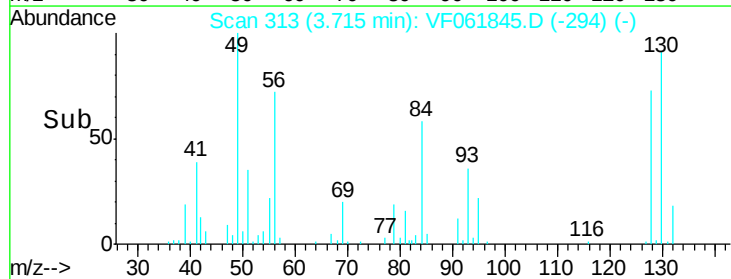
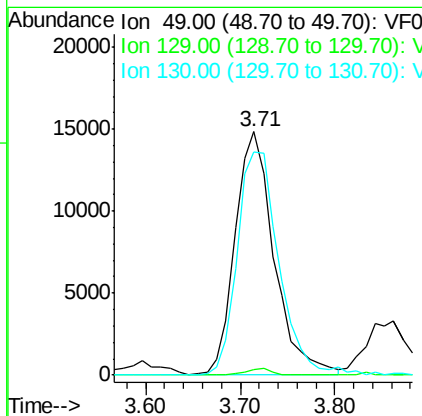
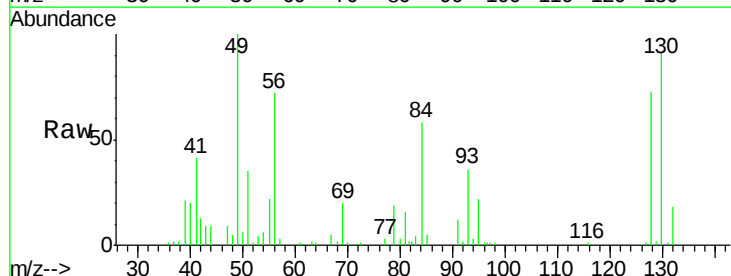
MMDadoda
3/8/2019 12:12:11 AM

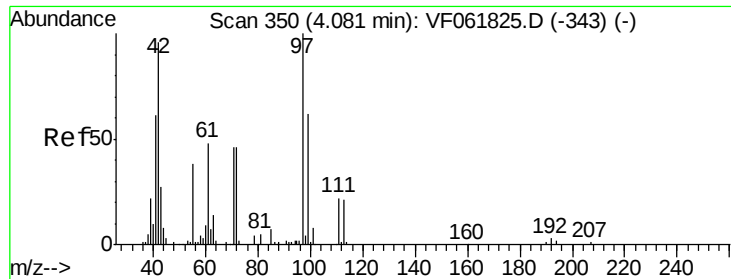


#28

Bromochloromethane
Concen: 21.932 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	0.0#
130	91.4	76.9	115.3





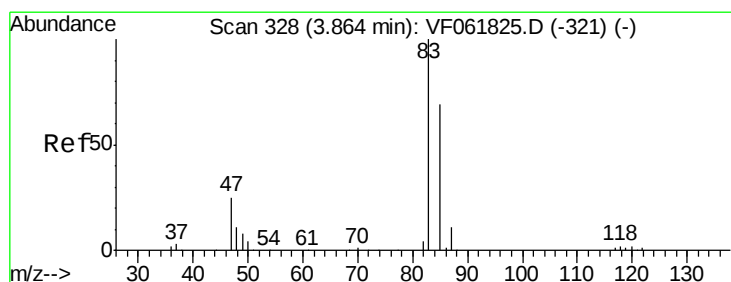
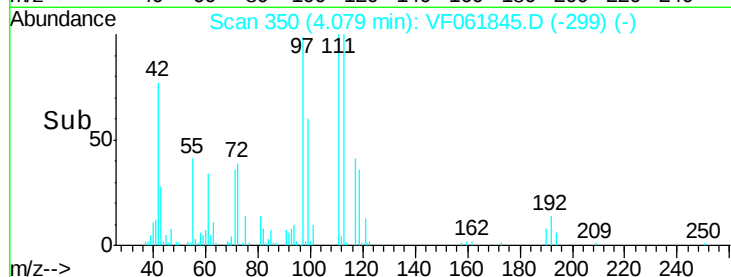
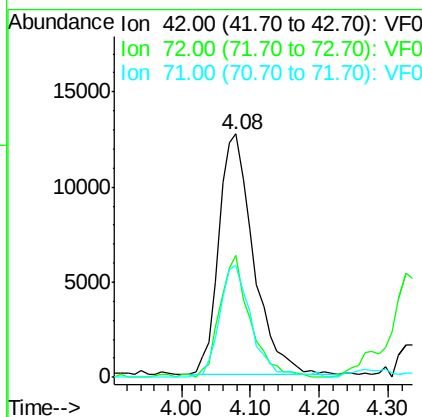
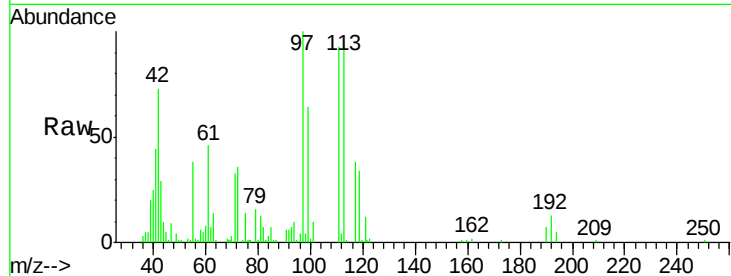
#29
Tetrahydrofuran
Concen: 108.847 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.9	34.4	51.6
71	42.1	34.6	52.0

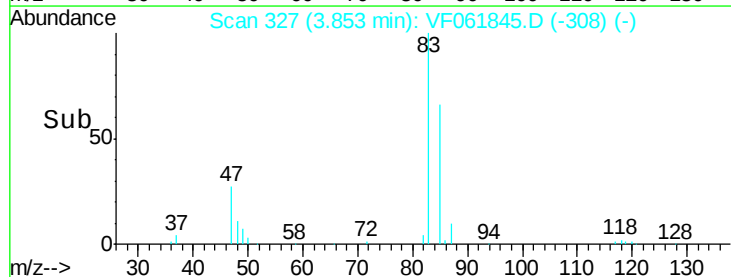
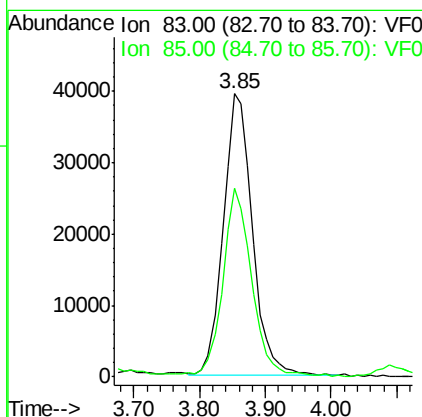
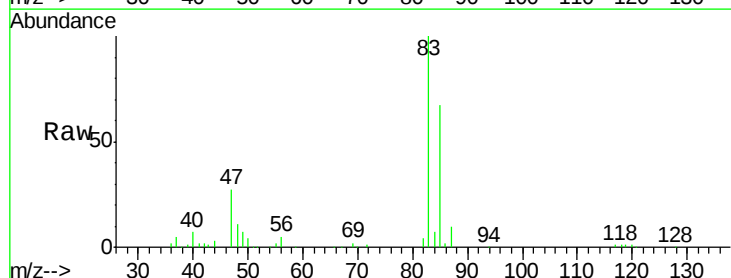
Manual Integrations
APPROVED

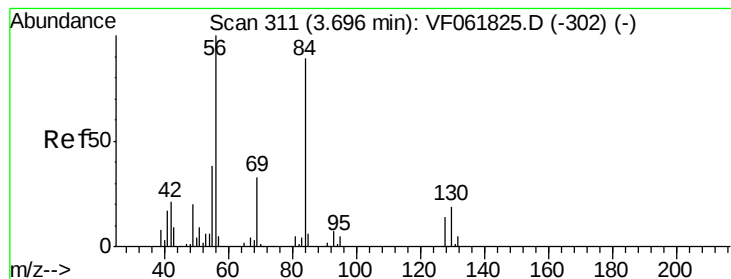
MMDadoda
3/8/2019 12:12:11 AM



#30
Chloroform
Concen: 23.953 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.6	55.3	82.9





#31

Cyclohexane

Concen: 23.083 ug/l m

RT: 3.68 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

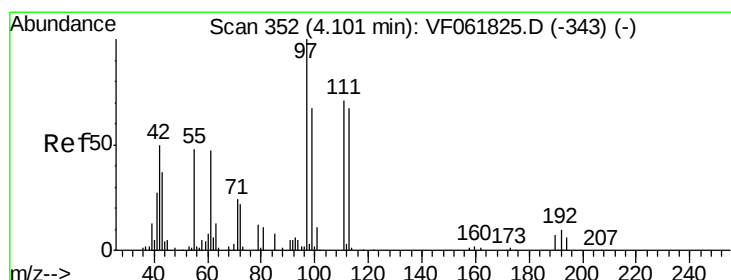
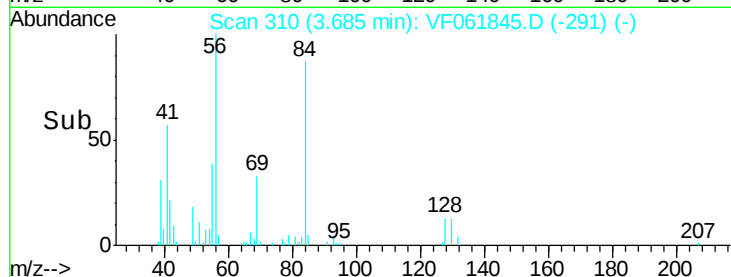
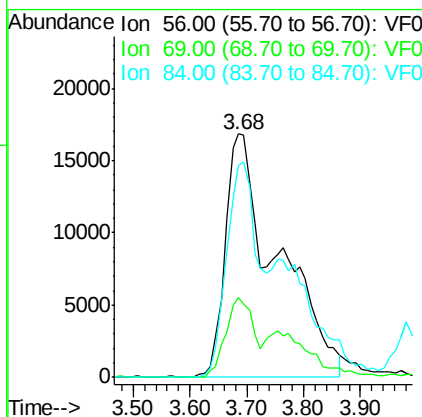
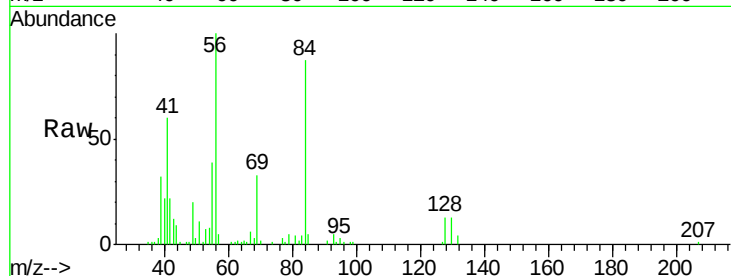
ClientSampleId :

VF0305SBS01

Tot Ion:	56	Resp:	107817
Ion Ratio	Lower	Upper	
56	100		
69	32.8	26.0	39.0
84	86.9	71.0	106.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 22.081 ug/l

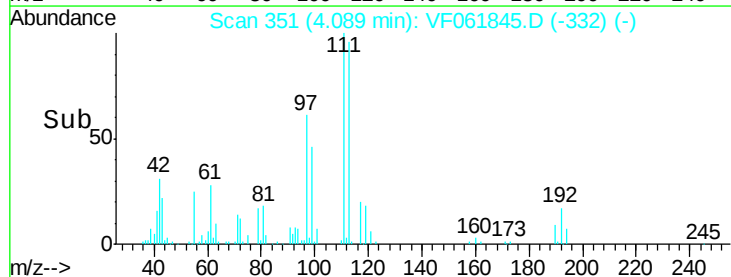
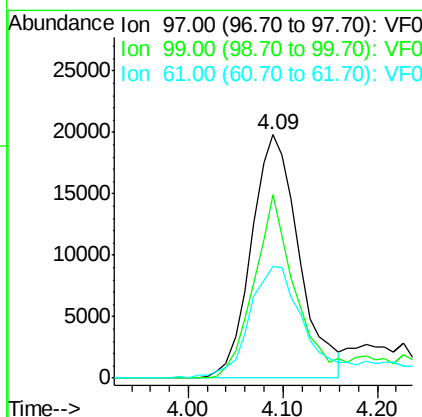
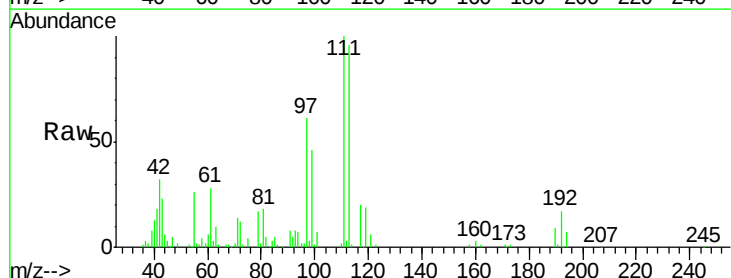
RT: 4.09 min Scan# 351

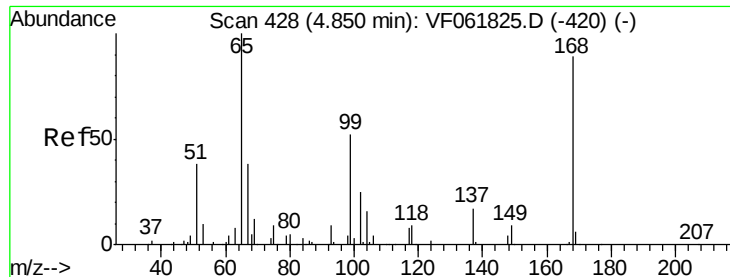
Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion:	97	Resp:	69328
Ion Ratio	Lower	Upper	
97	100		
99	75.4	53.8	80.8
61	46.1	37.9	56.9





#33

1,2-Dichloroethane-d4

Concen: 48.187 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tot Ion: 65 Resp: 106825

Ion Ratio Lower Upper

65 100

67 58.7 0.0 108.6

Instrument :

MSVOA_F

ClientSampleId :

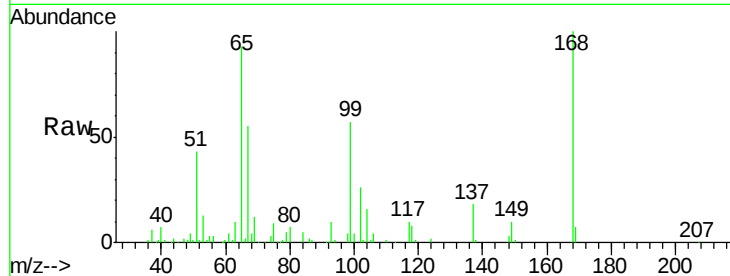
VF0305SBS01

Manual Integrations

APPROVED

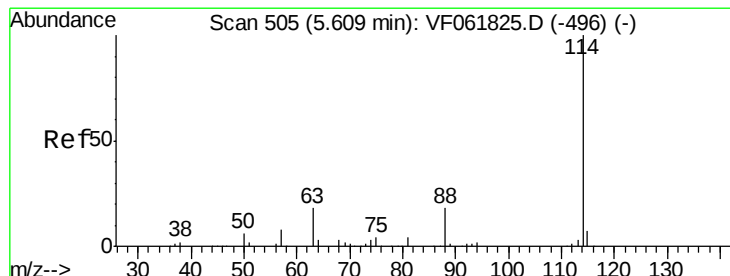
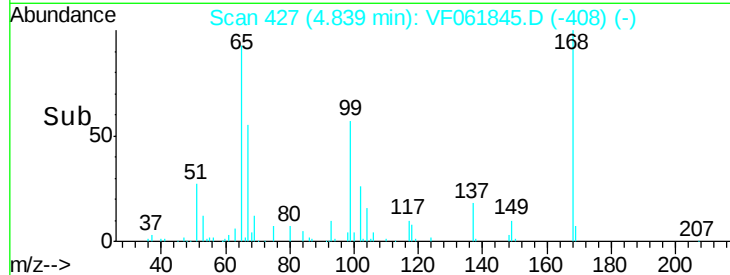
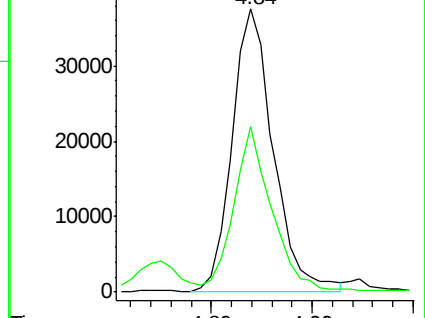
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.02 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

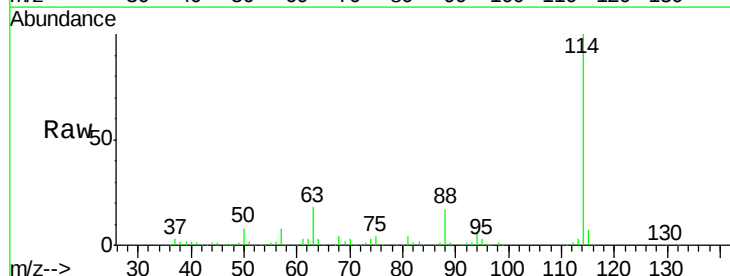
Tgt Ion: 114 Resp: 488339

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.6

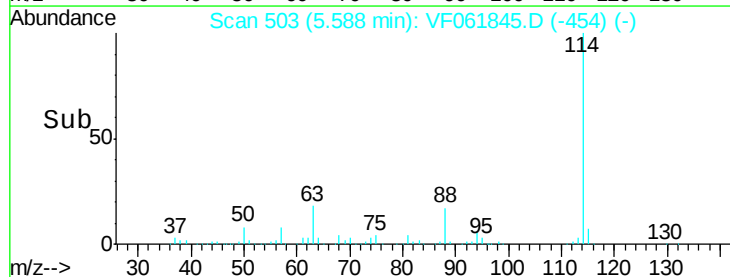
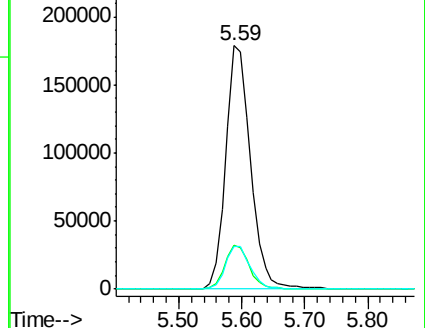
88 17.3 0.0 35.6

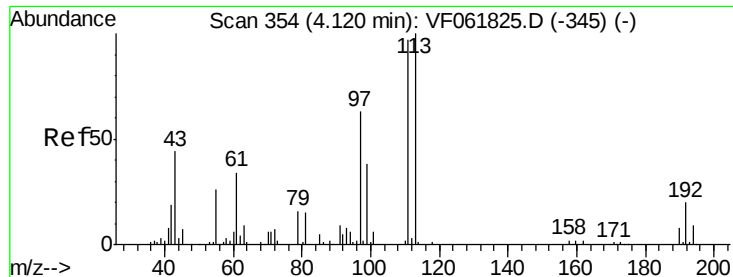


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





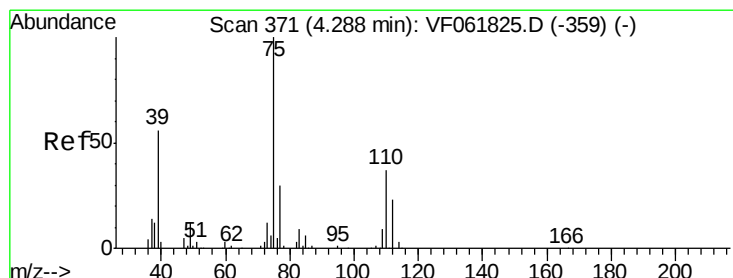
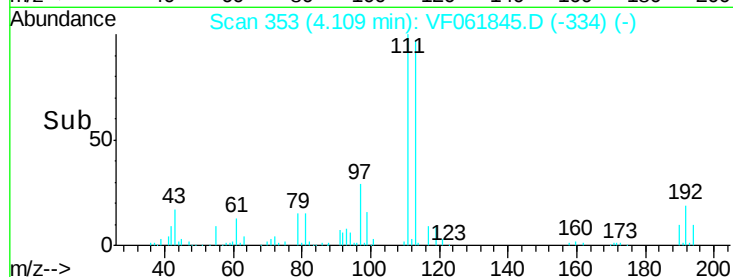
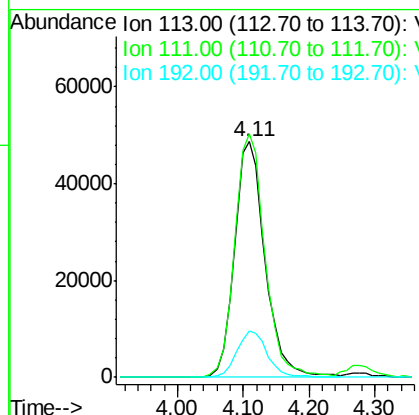
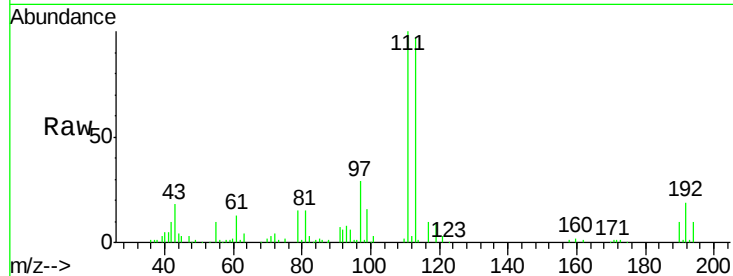
#35
Dibromofluoromethane
Concen: 46.400 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	158130		
111	103.4	77.6	116.4	
192	19.7	15.9	23.9	

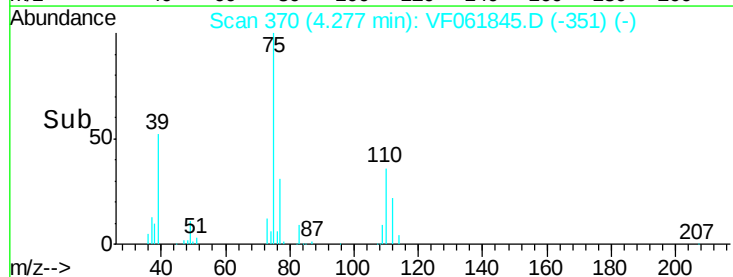
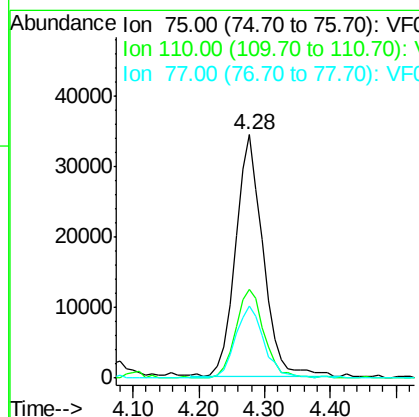
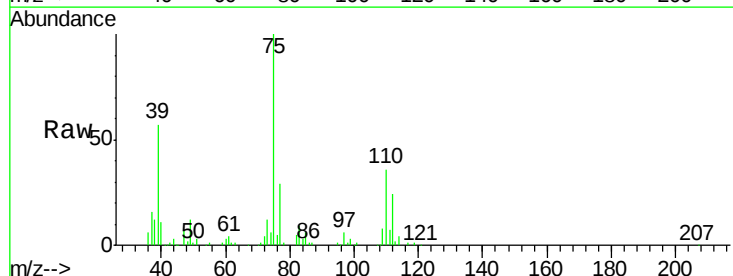
Manual Integrations
APPROVED

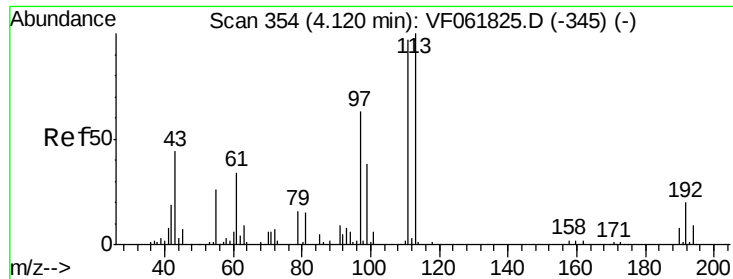
MMDadoda
3/8/2019 12:12:11 AM



#36
1,1-Dichloropropene
Concen: 21.642 ug/l
RT: 4.28 min Scan# 370
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	99832		
110	36.2	18.6	55.6	
77	29.4	24.2	36.2	





#37

Ethyl Acetate

Concen: 20.147 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

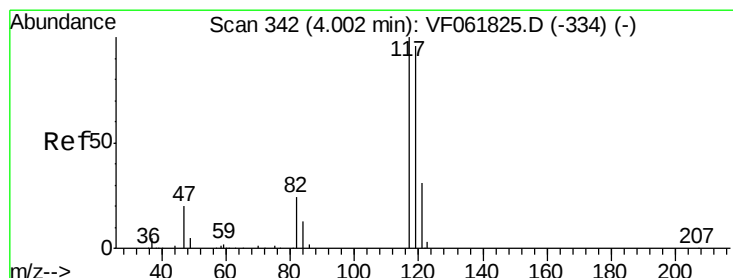
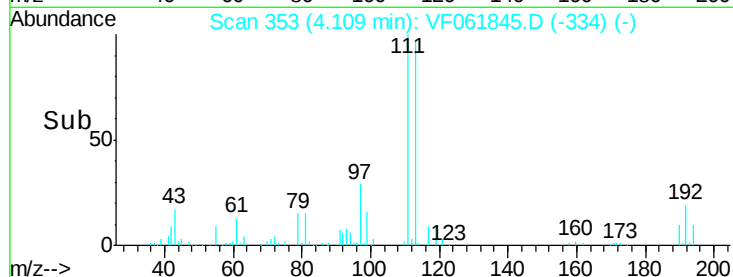
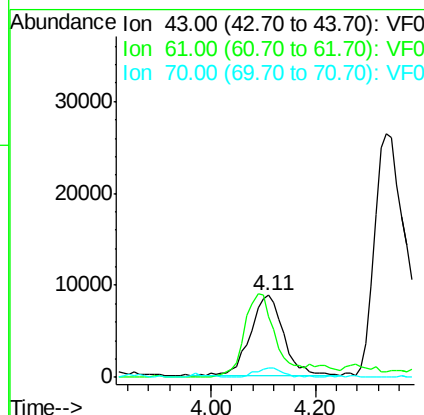
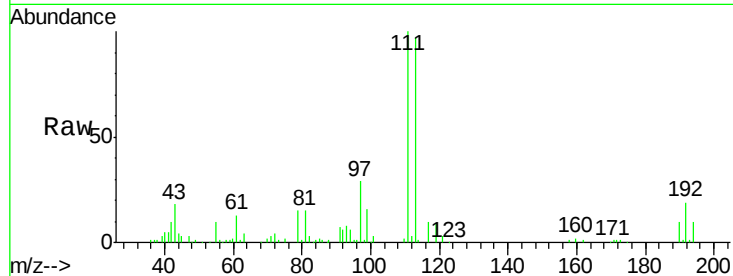
ClientSampleId :

VF0305SBS01

Tot Ion:	43	Resp:	39009
Ion	Ratio	Lower	Upper
43	100		
61	74.3	60.7	91.1
70	10.8	10.6	15.8

Manual Integrations
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3/8/2019 12:12:11 AM



#38

Carbon Tetrachloride

Concen: 22.435 ug/l

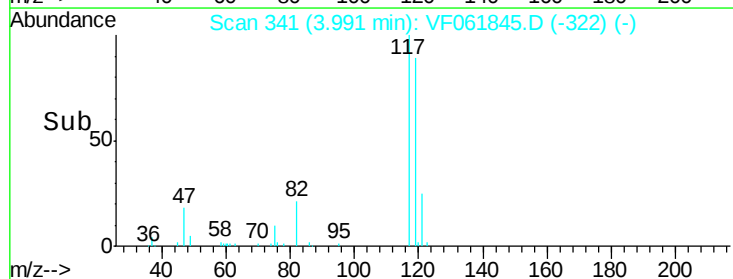
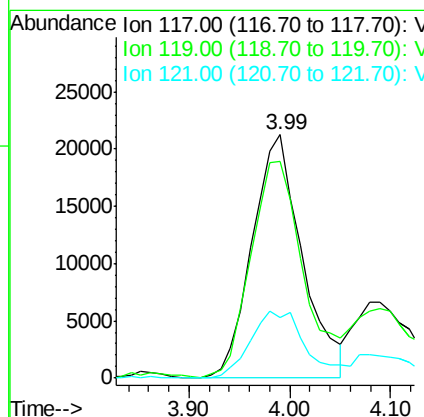
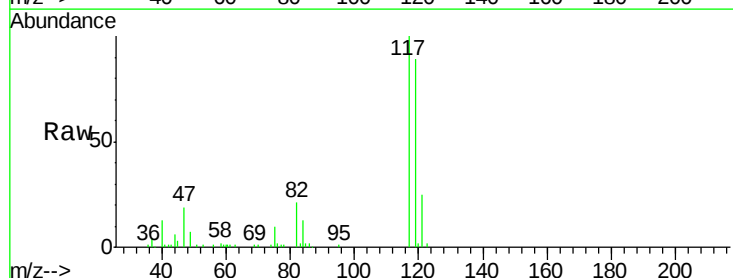
RT: 3.99 min Scan# 341

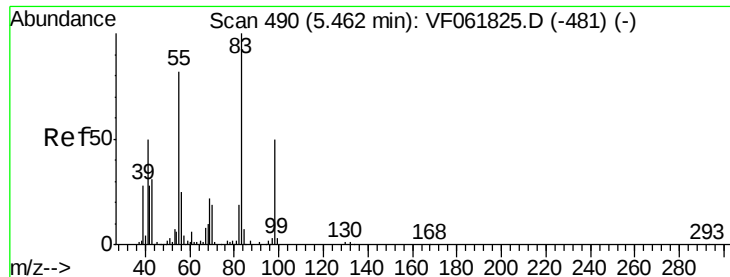
Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion:	117	Resp:	73261
Ion	Ratio	Lower	Upper
117	100		
119	88.9	76.6	114.8
121	24.7	24.4	36.6





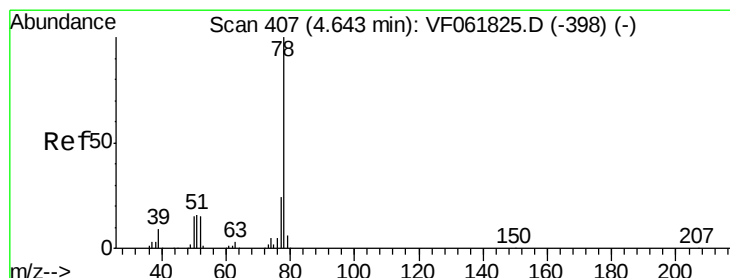
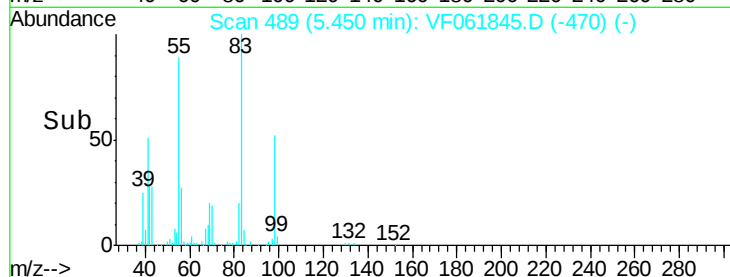
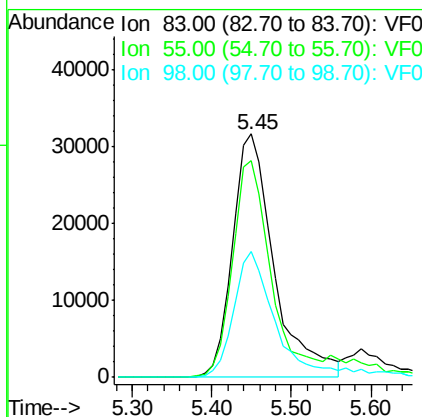
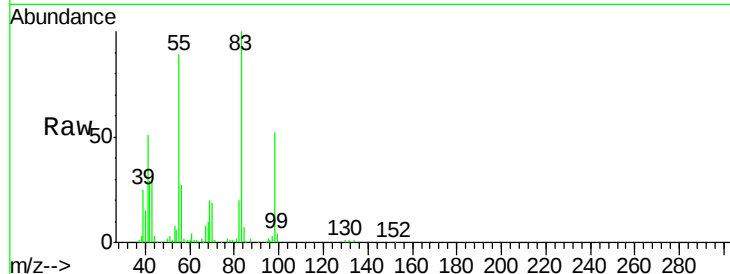
#39
Methvlcvclohexane
Concen: 20.948 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	88.9	66.0	99.0
98	51.9	39.8	59.6

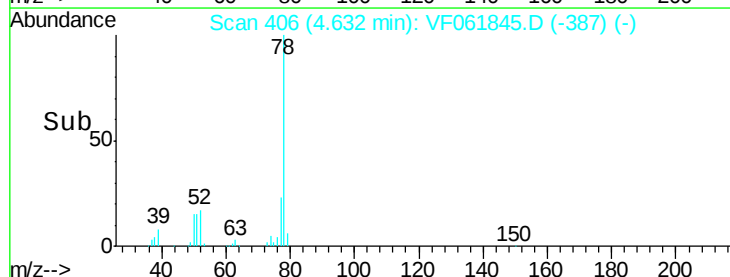
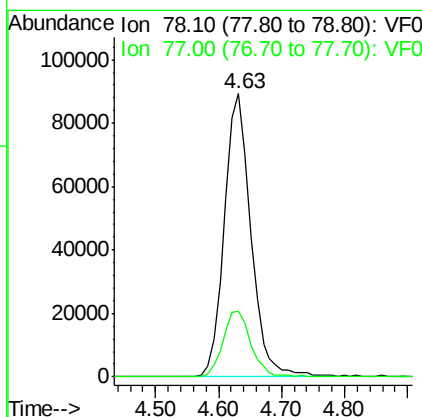
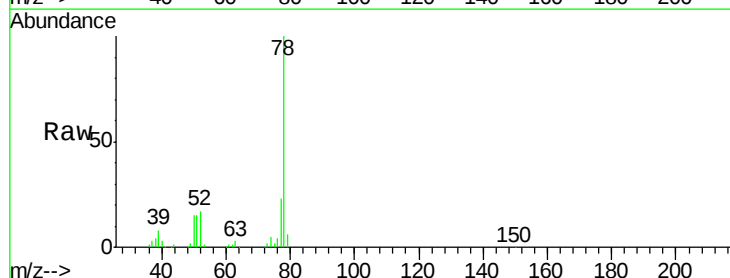
Manual Integrations
APPROVED

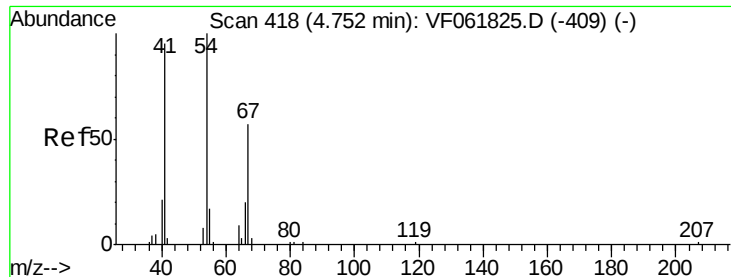
MMDadoda
3/8/2019 12:12:11 AM



#40
Benzene
Concen: 21.687 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.5	29.3





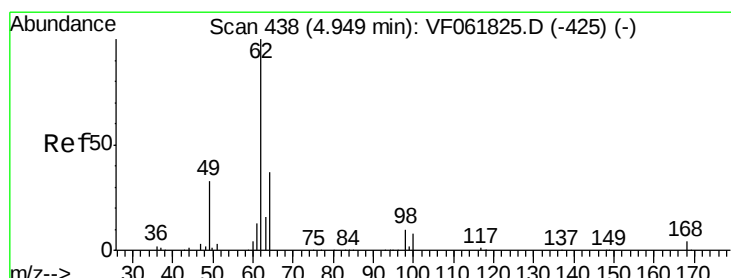
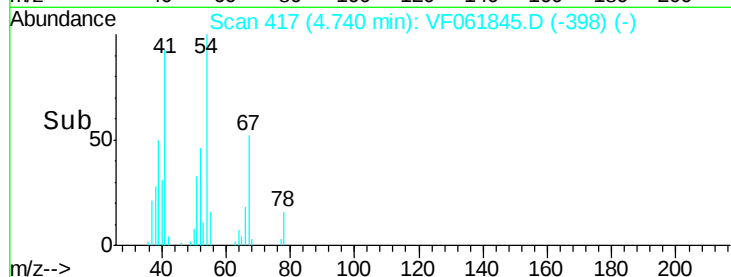
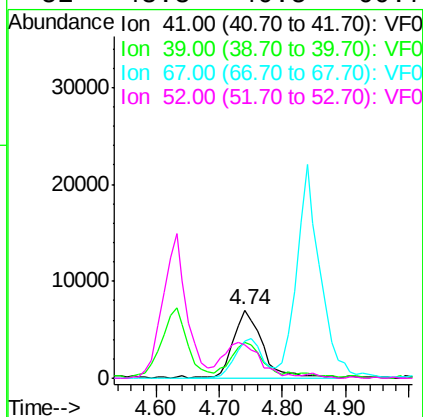
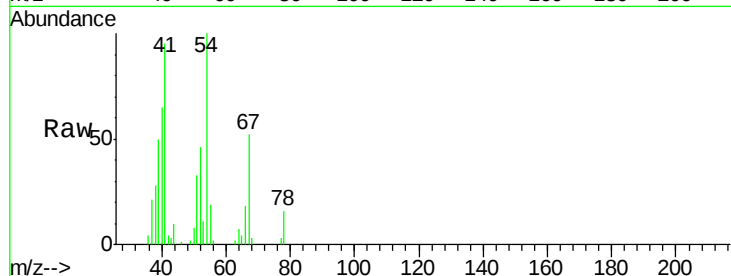
#41
Methacrylonitrile
Concen: 21.308 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	41	Resp	22604
Ion	Ratio	Lower	Upper
41	100		
39	52.6	43.0	64.6
67	55.0	47.8	71.8
52	48.8	40.5	60.7

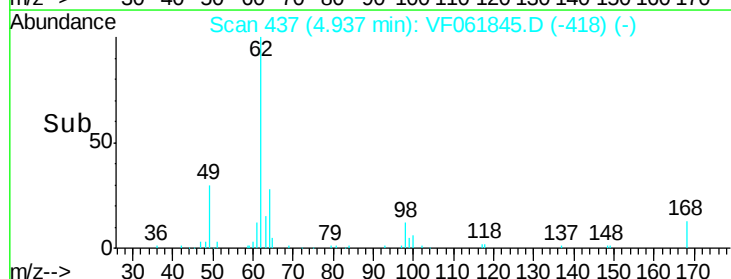
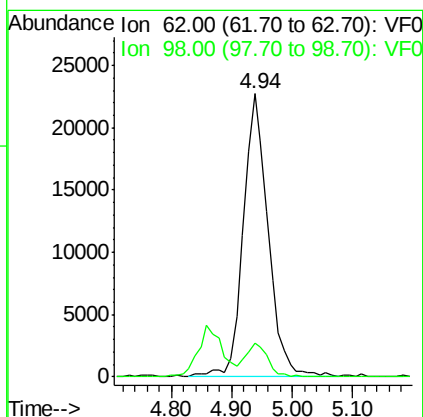
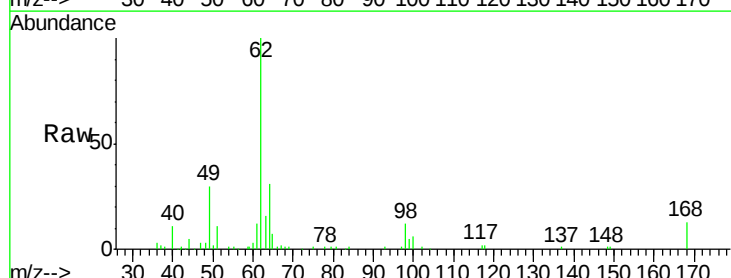
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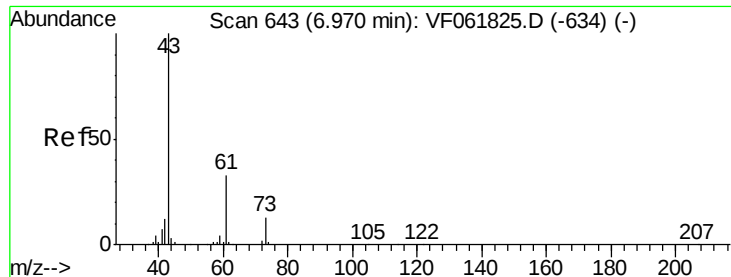
MMDadoda
3/8/2019 12:12:11 AM



#42
1,2-Dichloroethane
Concen: 21.578 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	62	Resp	64838
Ion	Ratio	Lower	Upper
62	100		
98	11.8	0.0	21.0





#43

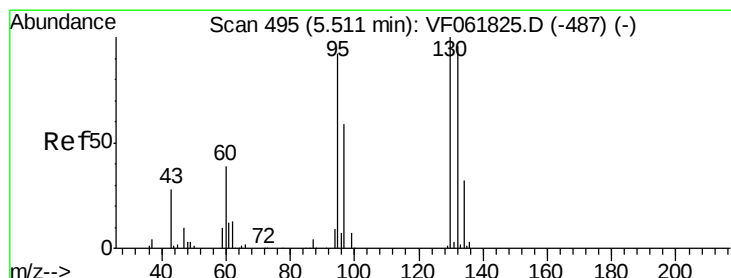
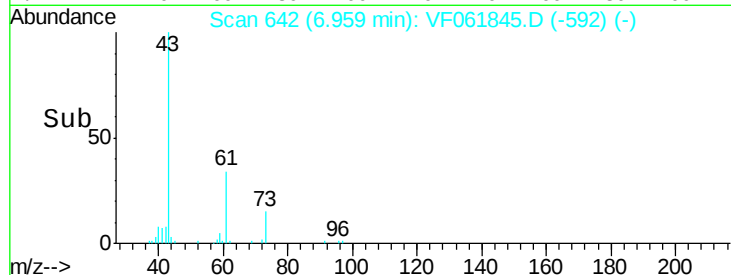
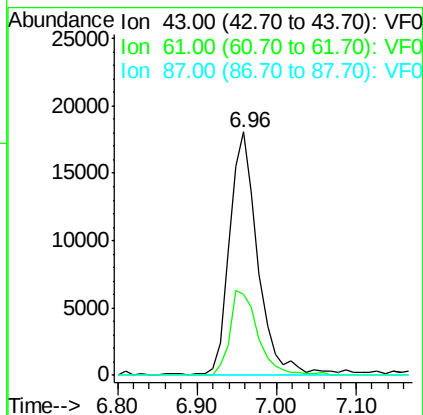
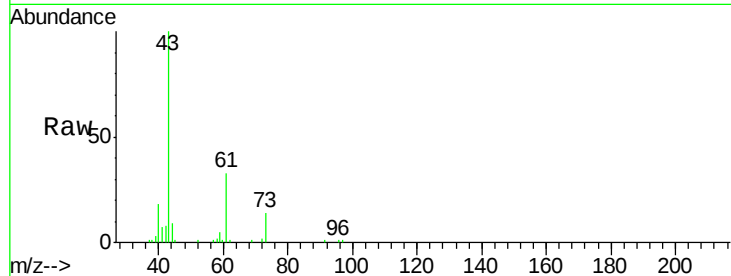
Isopropyl Acetate
 Concen: 18.887 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0305SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	33.0	26.1	39.1
87	0.0	0.0	0.0

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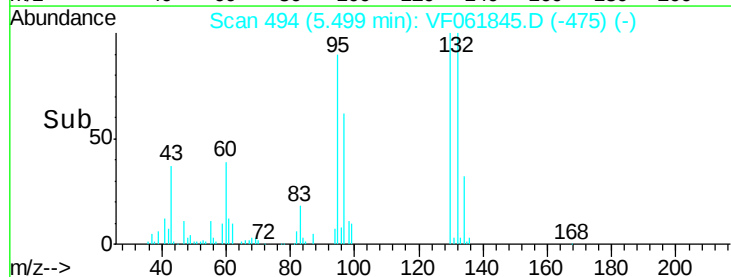
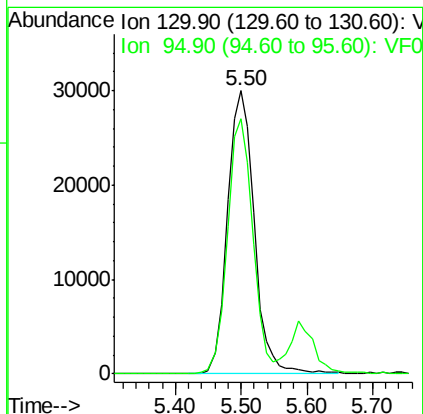
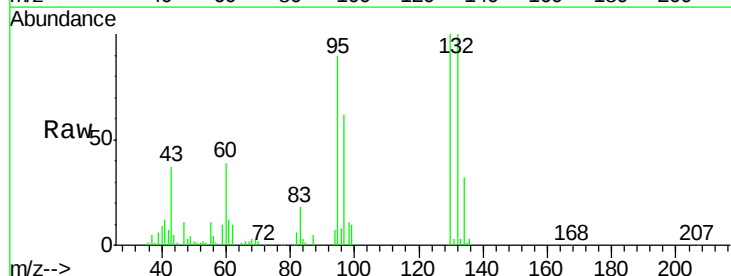
MMDadoda
 3/8/2019 12:12:11 AM

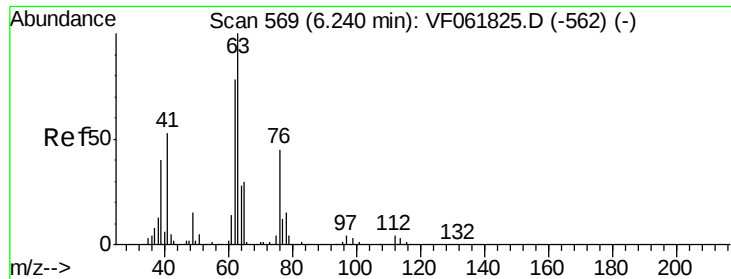


#44

Trichloroethene
 Concen: 22.914 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.3	0.0	184.0





#45

1,2-Dichloropropane

Concen: 22.220 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion: 63 Resp: 63710

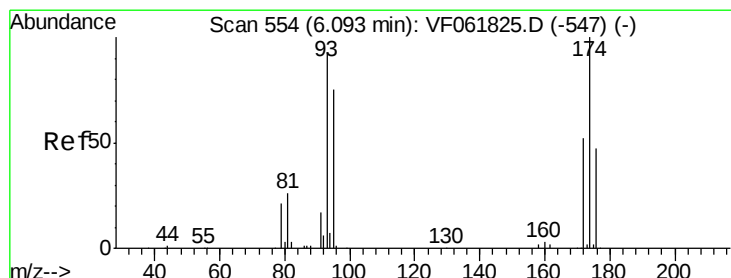
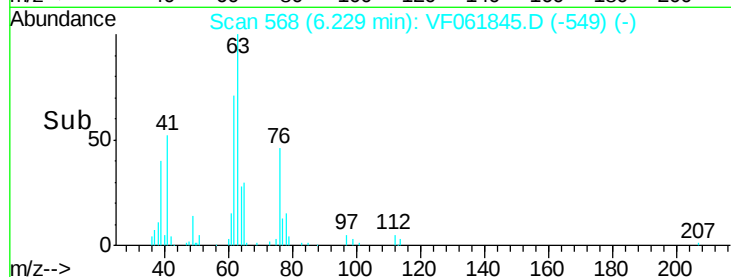
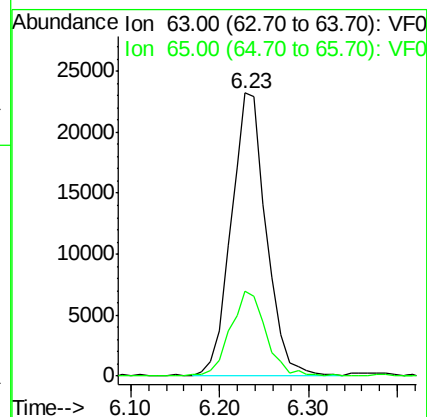
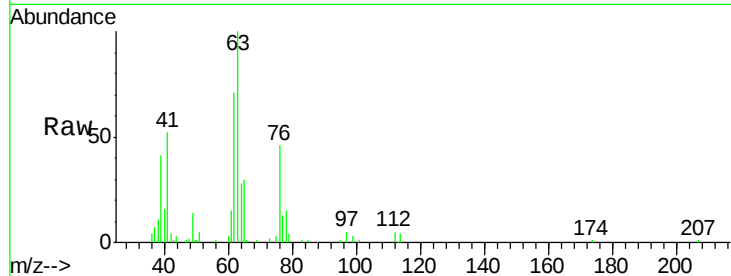
Ion Ratio Lower Upper

63 100

65 30.2 24.0 36.0

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#46

Dibromomethane

Concen: 19.432 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

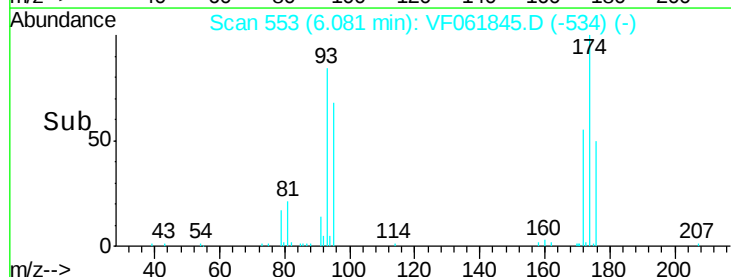
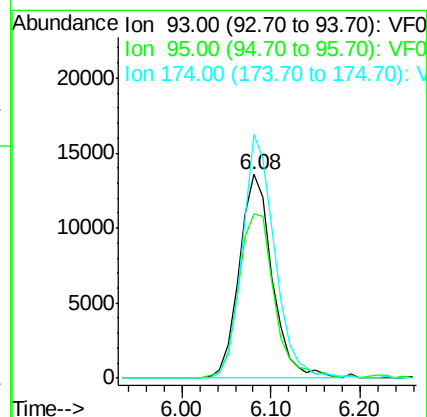
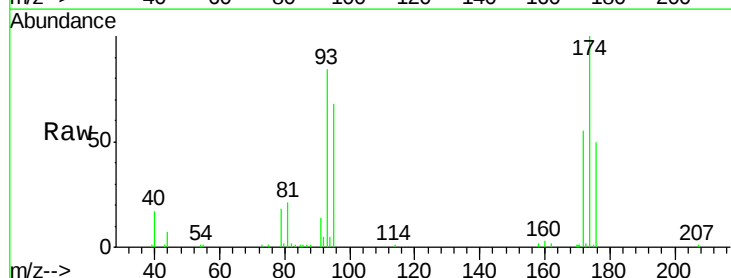
Tgt Ion: 93 Resp: 35065

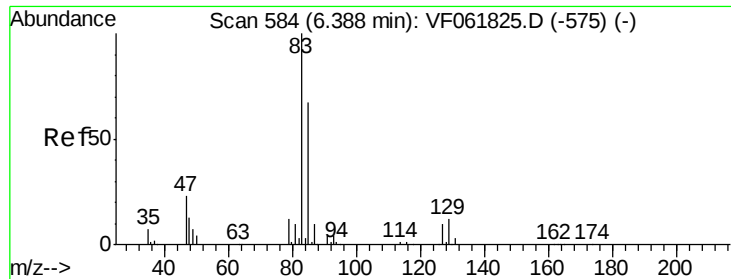
Ion Ratio Lower Upper

93 100

95 80.8 64.4 96.6

174 119.5 85.8 128.6





#47

Bromodichloromethane

Concen: 21.673 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

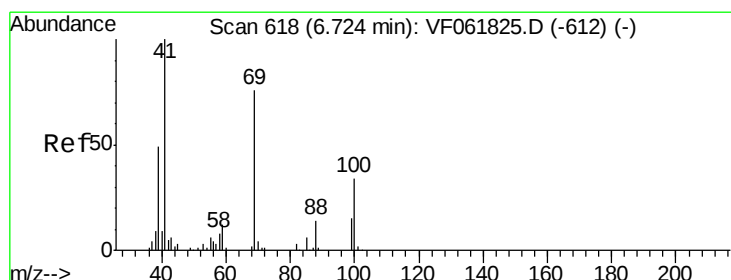
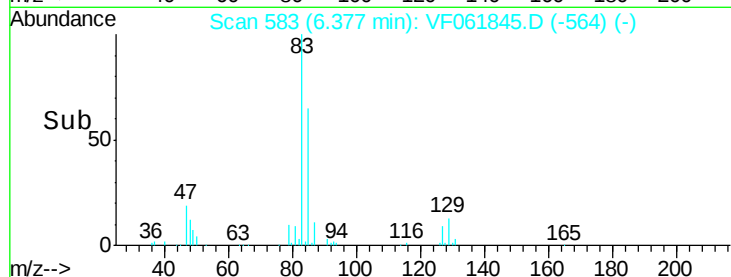
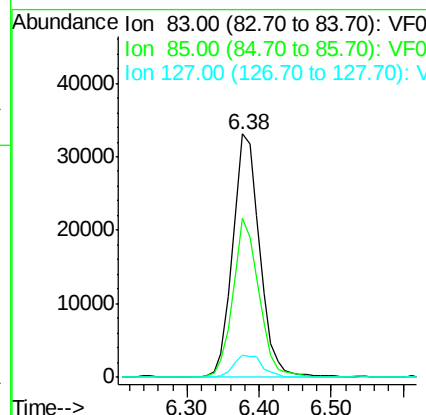
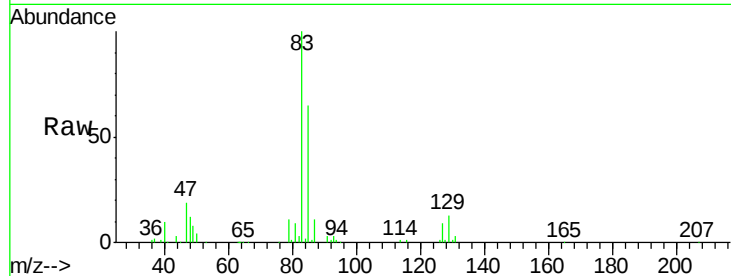
ClientSampleId :

VF0305SBS01

Tot Ion:	83	Resp:	86401
Ion Ratio	Lower	Upper	
83	100		
85	65.5	53.6	80.4
127	9.0	8.1	12.1

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#48

Methyl methacrylate

Concen: 20.310 ug/l

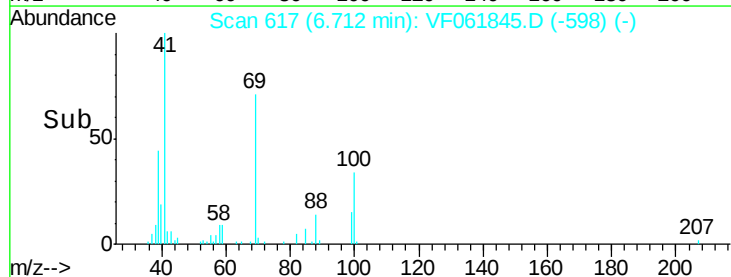
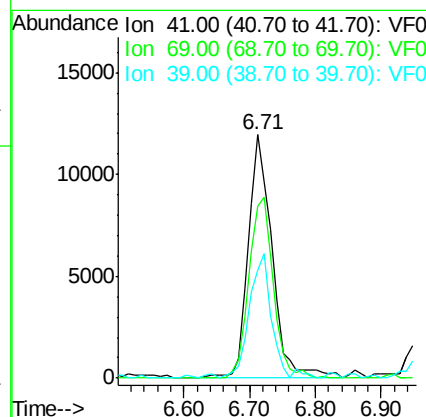
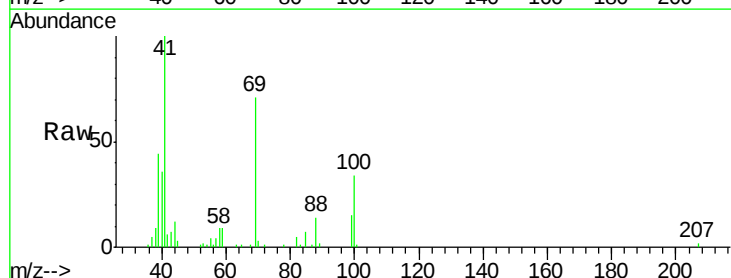
RT: 6.71 min Scan# 617

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion:	41	Resp:	30677
Ion Ratio	Lower	Upper	
41	100		
69	70.7	60.4	90.6
39	44.2	39.7	59.5





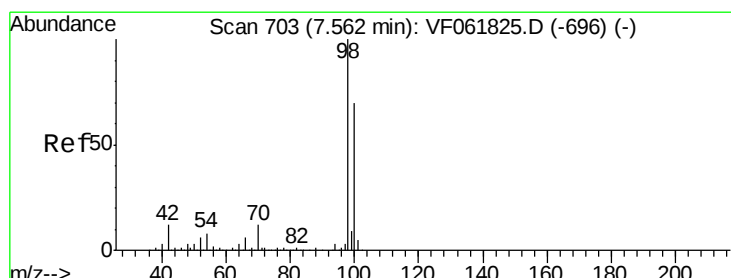
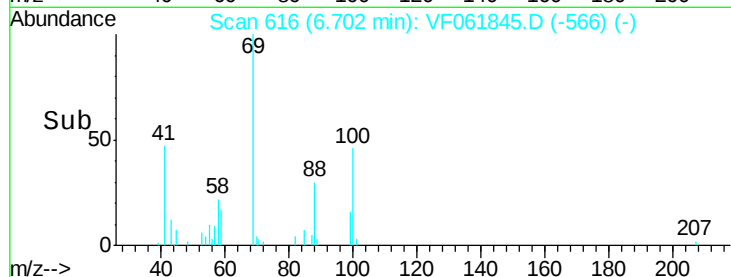
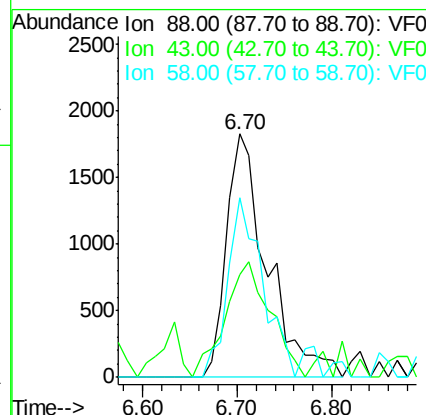
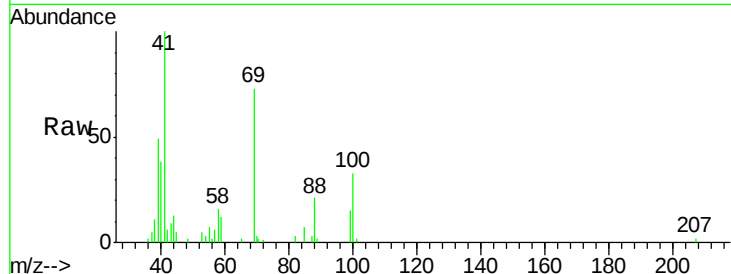
#49
1,4-Dioxane
Concen: 395.787 ug/l
RT: 6.70 min Scan# 616
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Resp	Lower	Upper
88	100	5465		
43	42.0		28.4	42.6
58	73.7		50.7	76.1

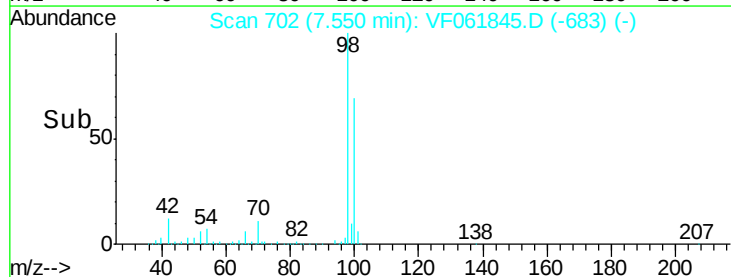
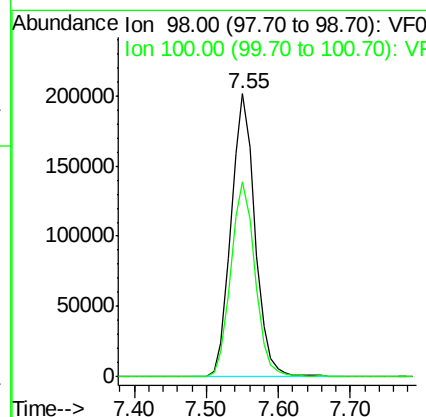
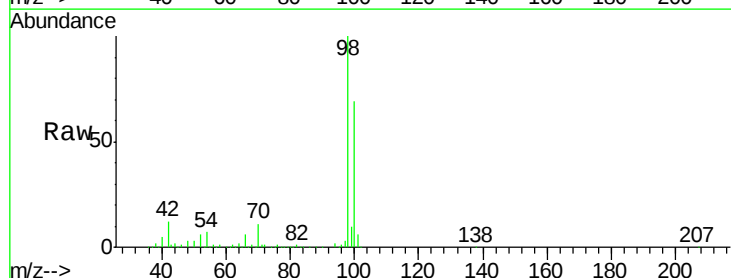
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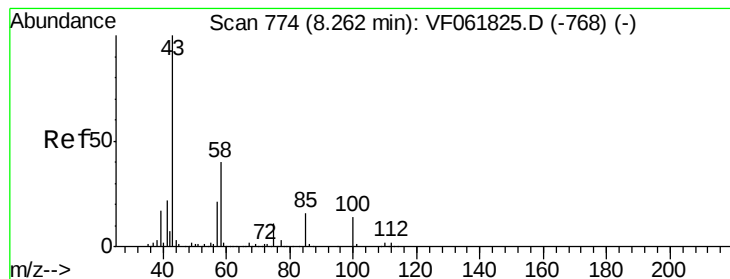
MMDadoda
3/8/2019 12:12:11 AM



#50
Toluene-d8
Concen: 46.096 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	466926		
100	68.9		56.0	84.0





#51

4-Methyl-2-Pentanone

Concen: 103.201 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion: 43 Resp: 170233

Ion Ratio Lower Upper

43 100

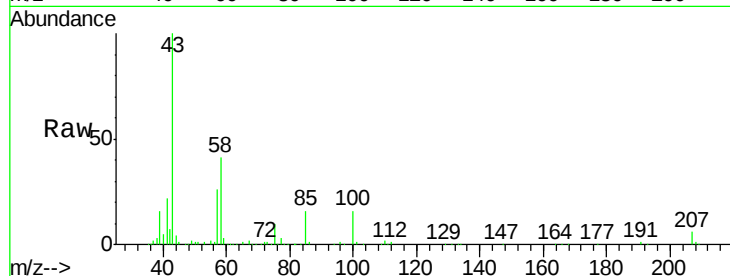
58 41.0 31.8 47.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

80000

60000

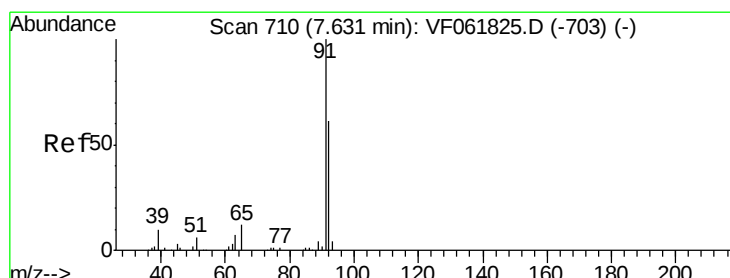
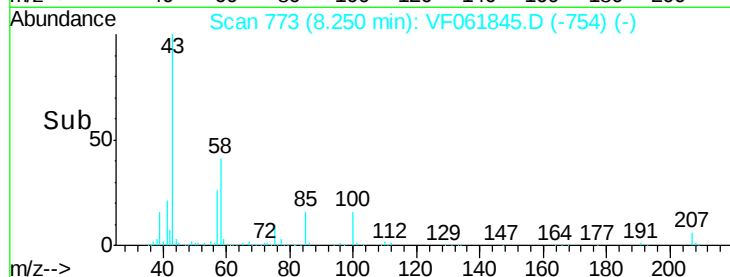
40000

20000

0

8.10 8.20 8.30 8.40

Time-->



#52

Toluene

Concen: 21.472 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061845.D

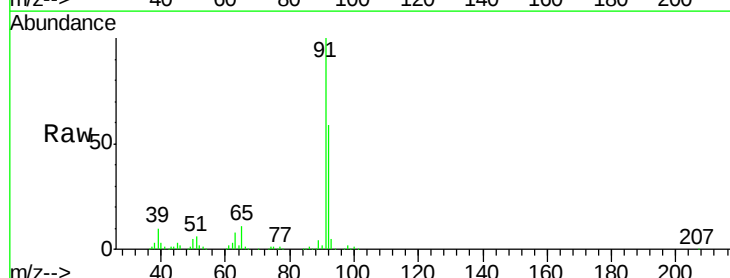
Acq: 5 Mar 2019 15:12

Tgt Ion: 92 Resp: 153157

Ion Ratio Lower Upper

92 100

91 168.2 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

120000

100000

80000

60000

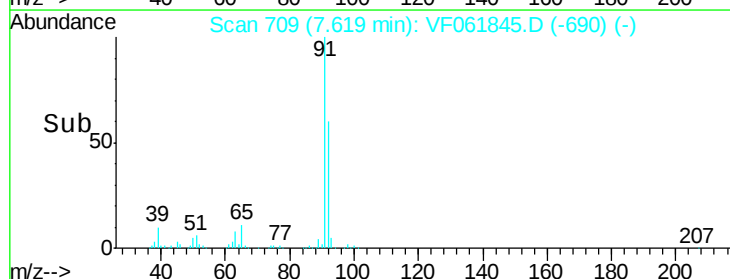
40000

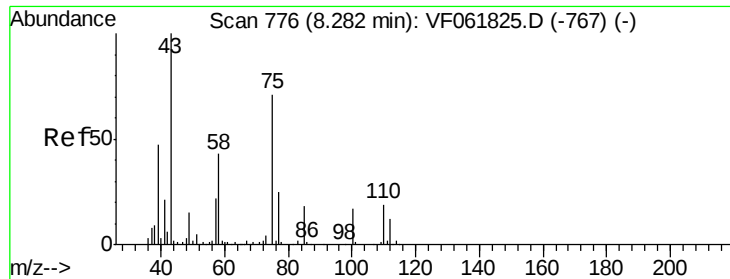
20000

0

7.50 7.60 7.70

Time-->





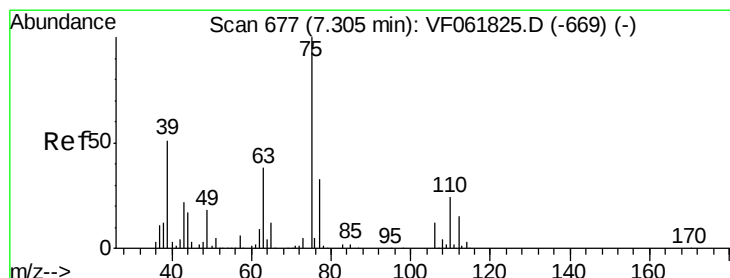
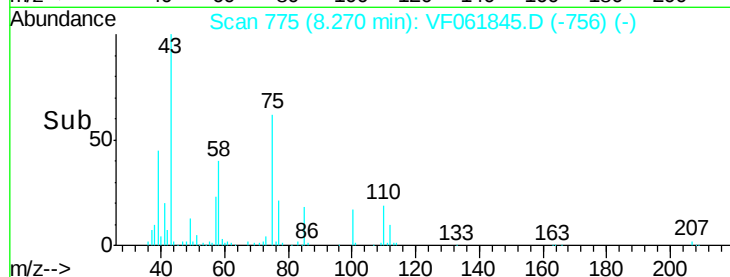
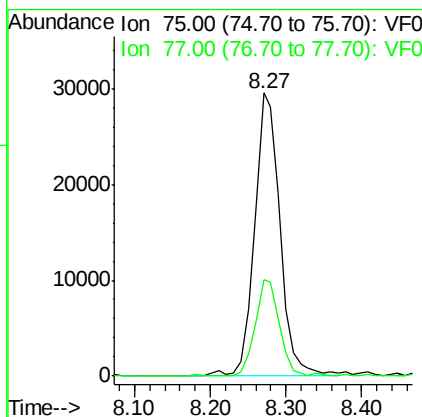
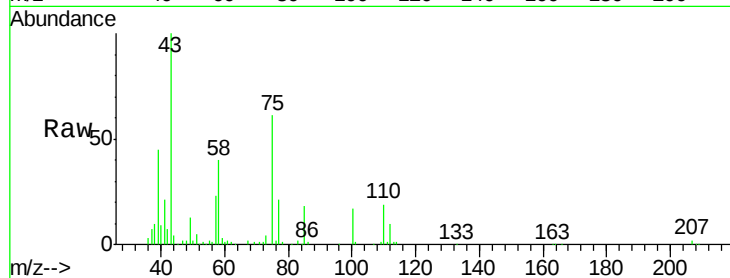
#53
 t-1,3-Dichloropropene
 Concen: 21.183 ug/l
 RT: 8.27 min Scan# 775
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0305SBS01

Tot Ion: 75 Resp: 69709
 Ion Ratio Lower Upper
 75 100
 77 33.9 28.0 42.0

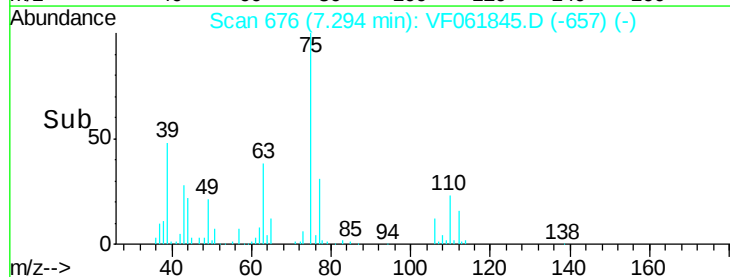
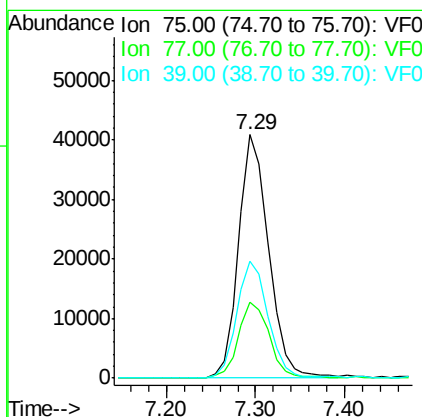
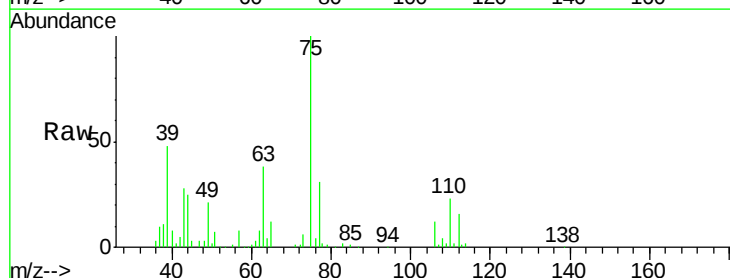
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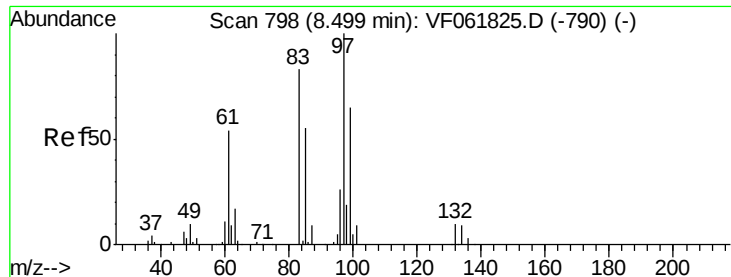
MMDadoda
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#54
 cis-1,3-Dichloropropene
 Concen: 21.219 ug/l
 RT: 7.29 min Scan# 676
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Tgt Ion: 75 Resp: 96312
 Ion Ratio Lower Upper
 75 100
 77 31.4 26.3 39.5
 39 47.9 40.8 61.2





#55

1,1,2-Trichloroethane

Concen: 20.219 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

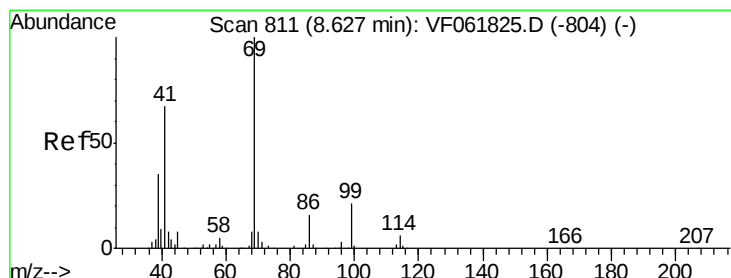
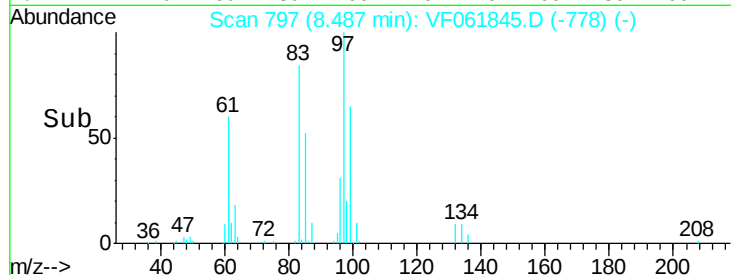
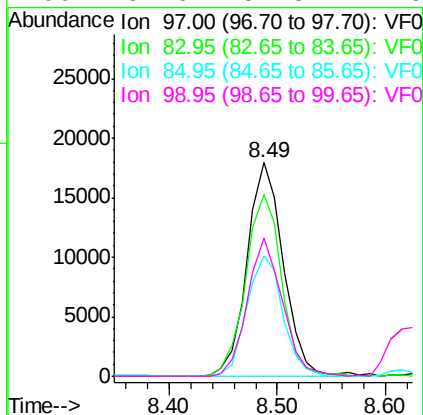
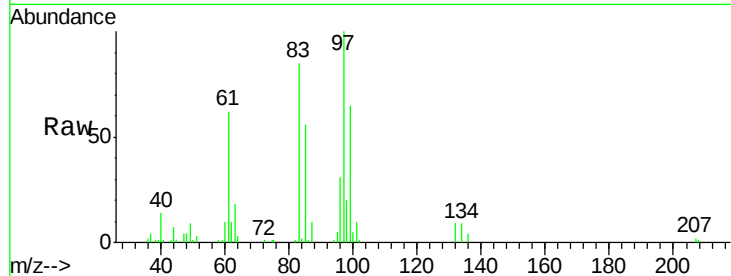
ClientSampleId :

VF0305SBS01

Tot Ion:	97	Resp:	41553
Ion	Ratio	Lower	Upper
97	100		
83	85.3	66.5	99.7
85	56.4	44.2	66.2
99	64.6	51.8	77.6

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.010 ug/l

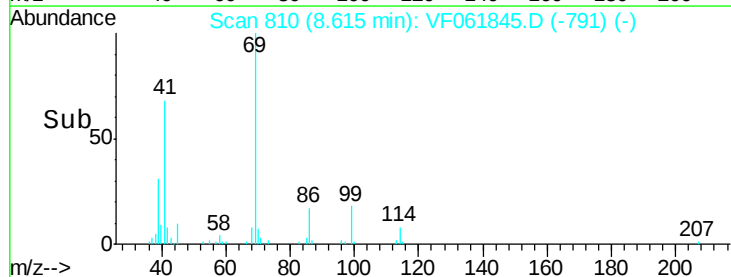
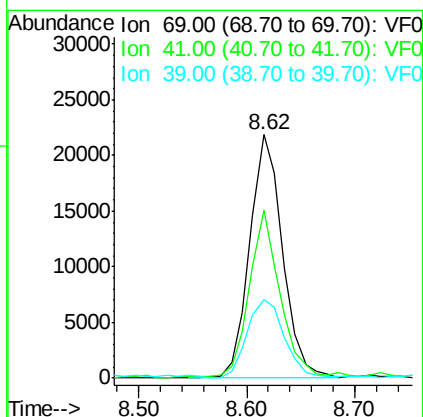
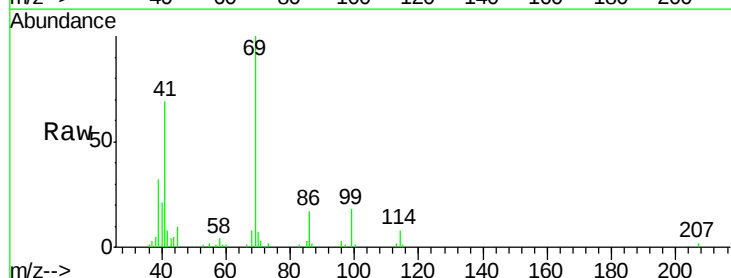
RT: 8.62 min Scan# 810

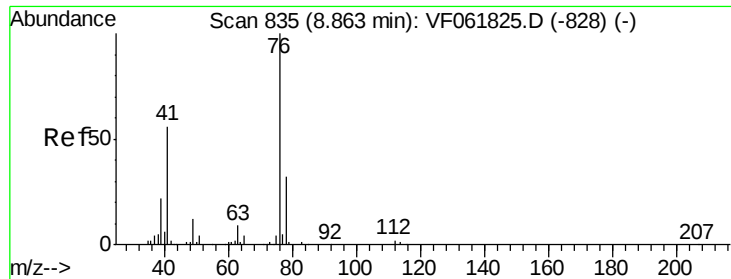
Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion:	69	Resp:	46346
Ion	Ratio	Lower	Upper
69	100		
41	69.3	53.9	80.9
39	32.4	28.3	42.5





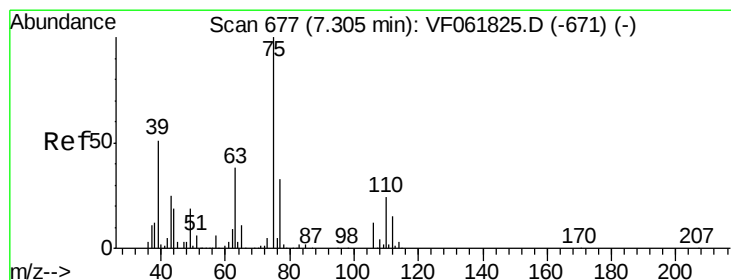
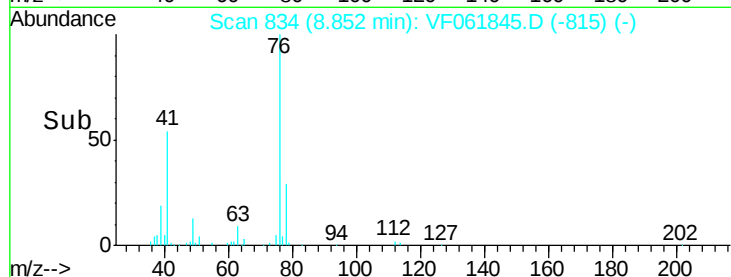
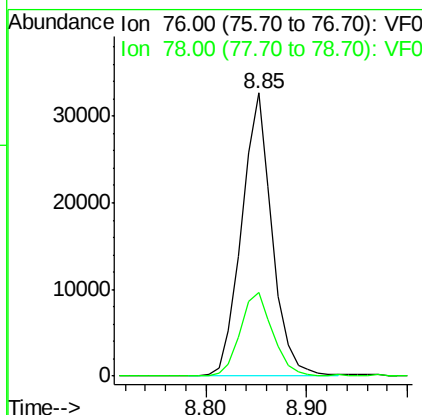
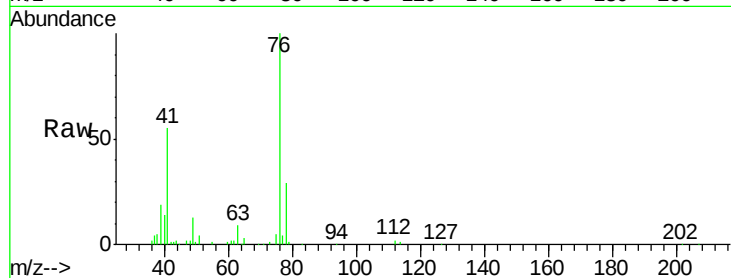
#57
 1,3-Dichloropropane
 Concen: 20.444 ug/l
 RT: 8.85 min Scan# 834
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0305SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	29.4	25.4	38.2

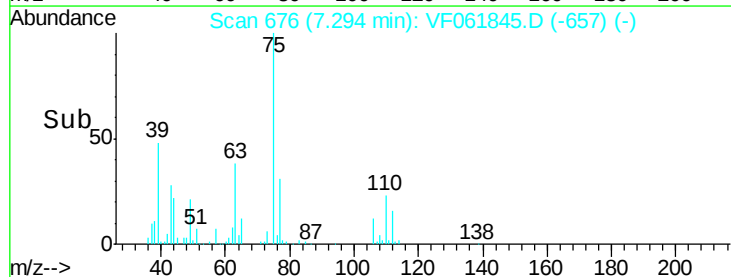
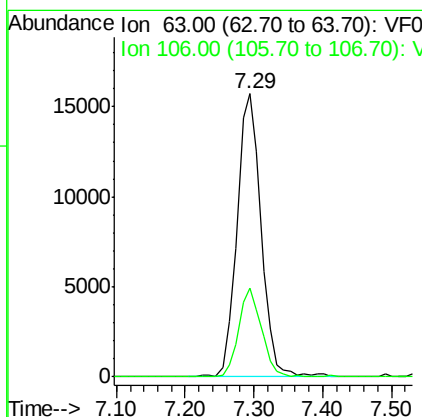
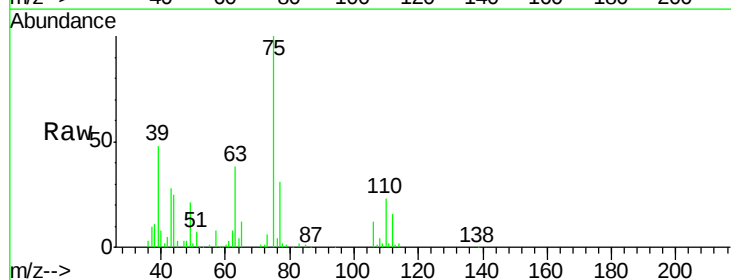
Manual Integrations
 APPROVED

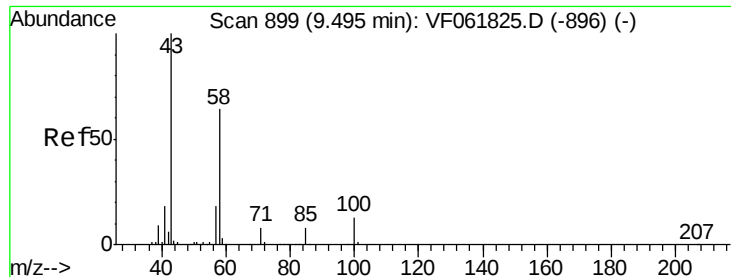
MMDadoda
 3/8/2019 12:12:11 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 103.758 ug/l
 RT: 7.29 min Scan# 676
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
63	100		
106	31.2	24.3	36.5





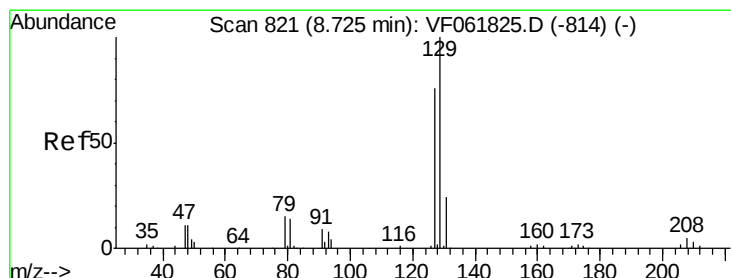
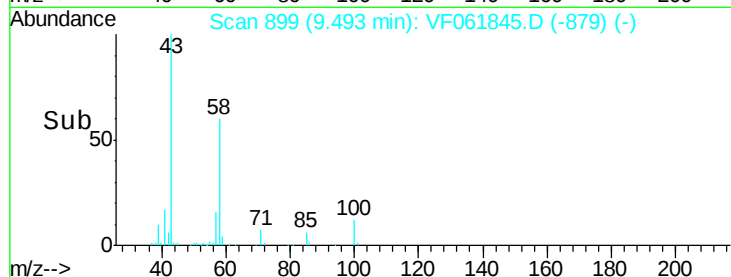
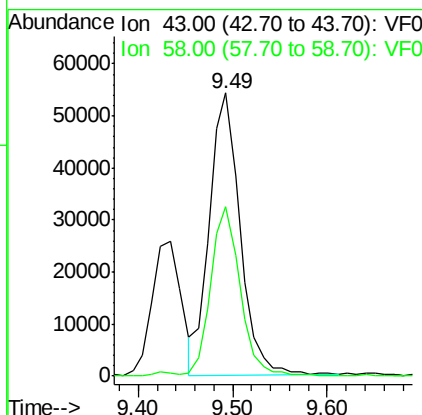
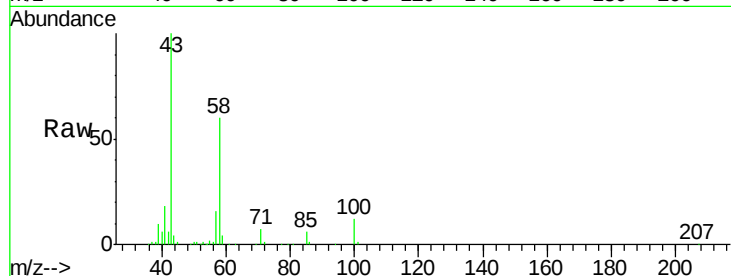
#59
2-Hexanone
Concen: 102.562 ug/l
RT: 9.49 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	59.9	28.8	86.4

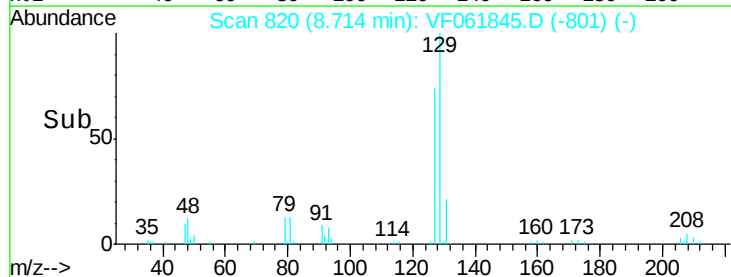
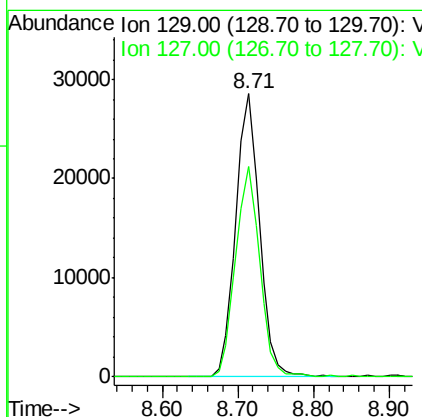
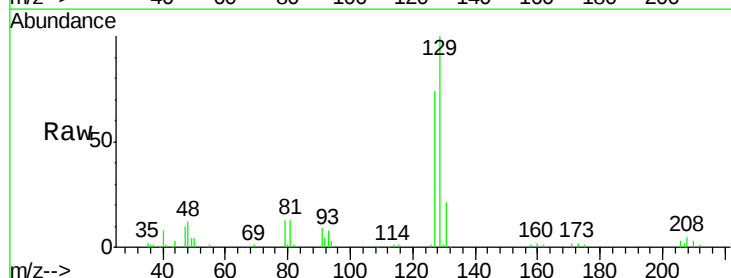
Manual Integrations
APPROVED

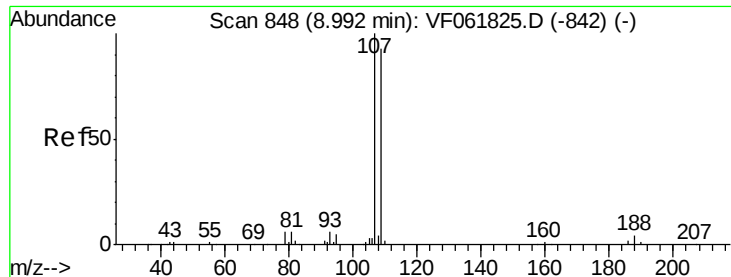
MMDadoda
3/8/2019 12:12:11 AM



#60
Dibromochloromethane
Concen: 21.260 ug/l
RT: 8.71 min Scan# 820
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
129	100		
127	74.4	38.2	114.6





#61

1,2-Dibromoethane

Concen: 20.251 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion:107 Resp: 45769

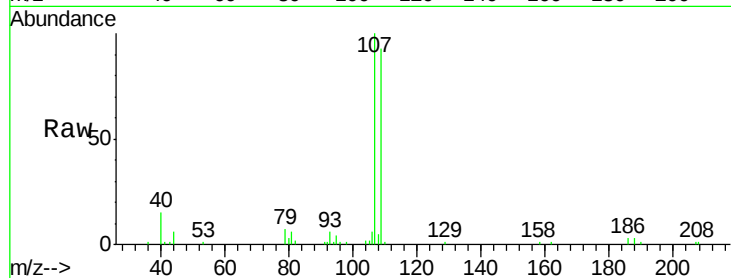
Ion Ratio Lower Upper

107 100

109 92.9 74.6 112.0

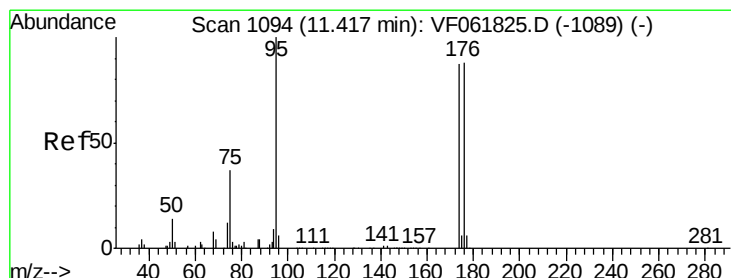
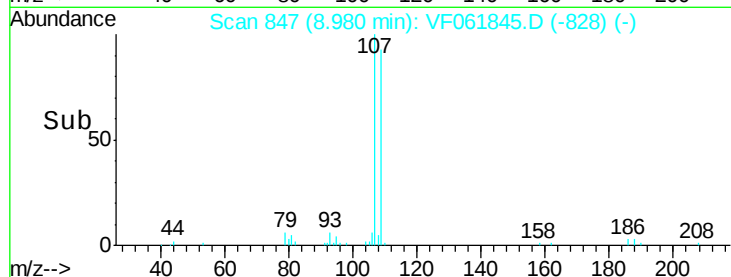
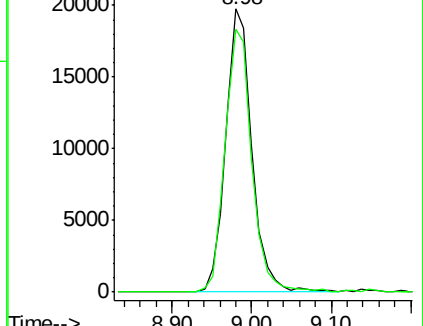
Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:11 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 45.832 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

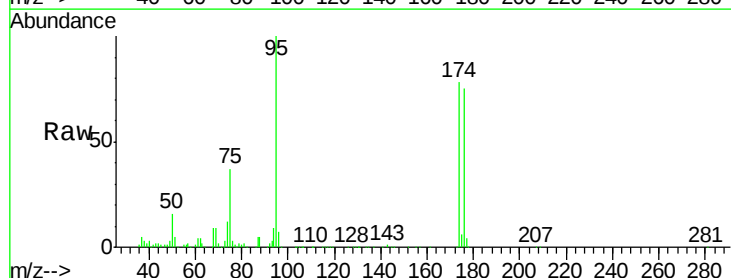
Tgt Ion: 95 Resp: 181860

Ion Ratio Lower Upper

95 100

174 77.9 0.0 174.0

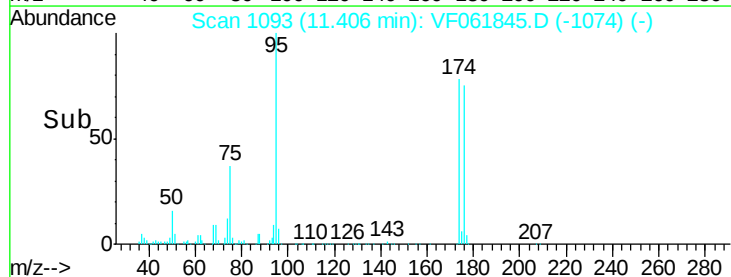
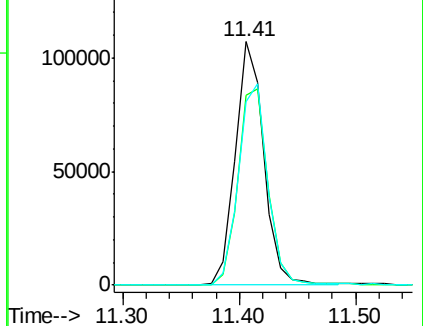
176 75.4 0.0 175.2

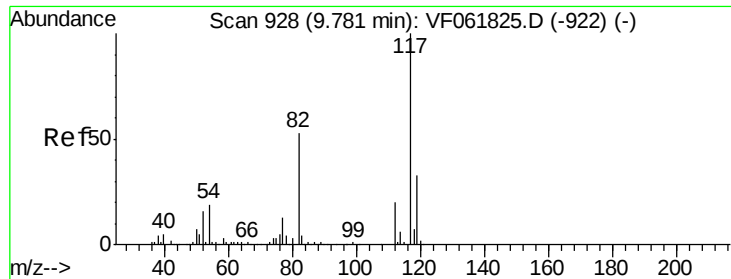


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





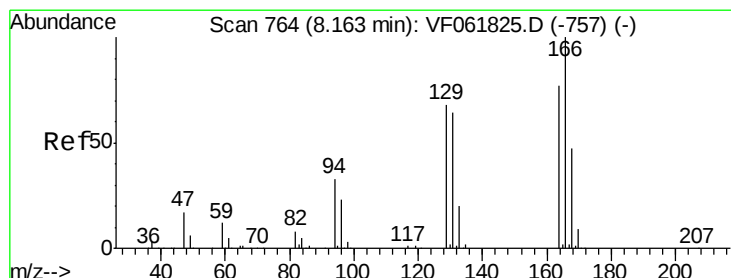
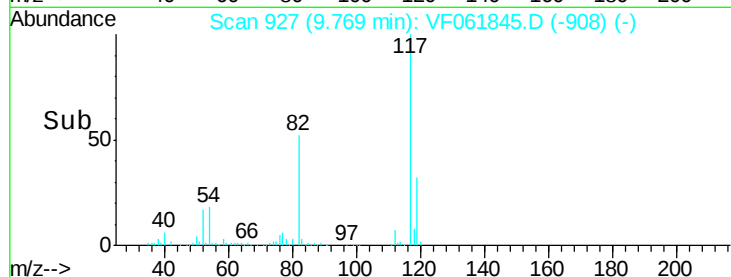
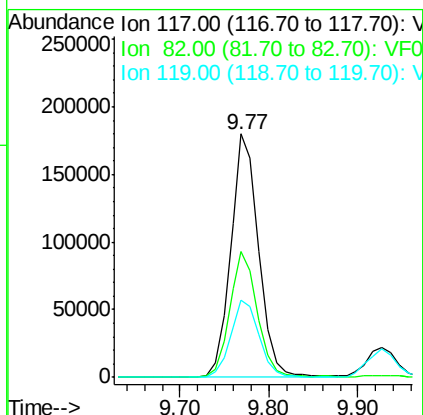
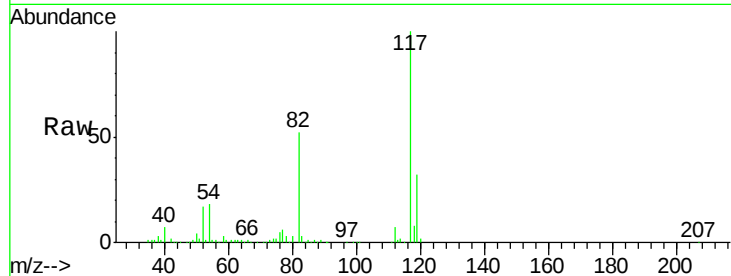
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	394027		
82	51.6	42.6	63.8	
119	31.8	26.0	39.0	

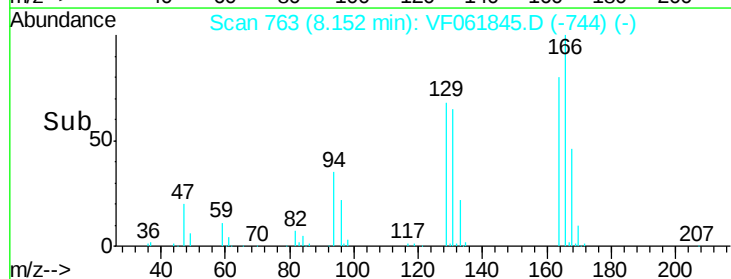
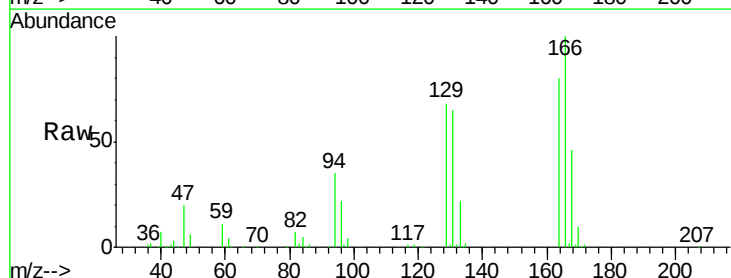
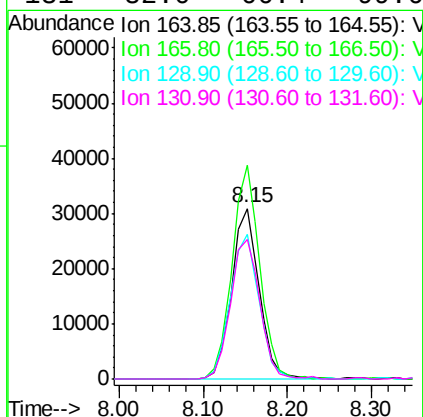
Manual Integrations
APPROVED

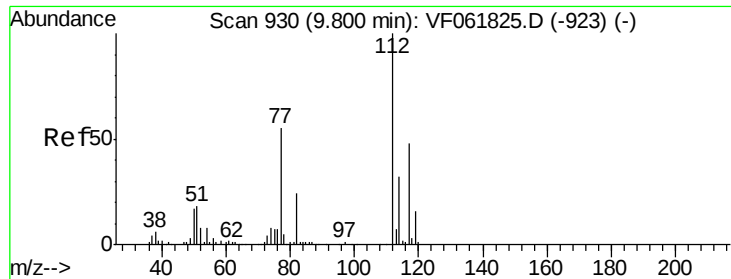
MMDadoda
3/8/2019 12:12:11 AM



#64
Tetrachloroethene
Concen: 23.297 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	70537		
166	125.4	103.4	155.0	
129	85.3	69.9	104.9	
131	82.0	66.4	99.6	





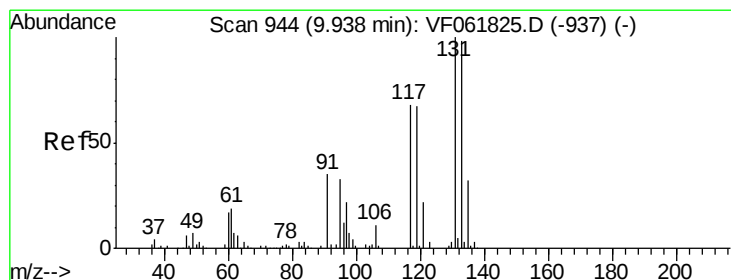
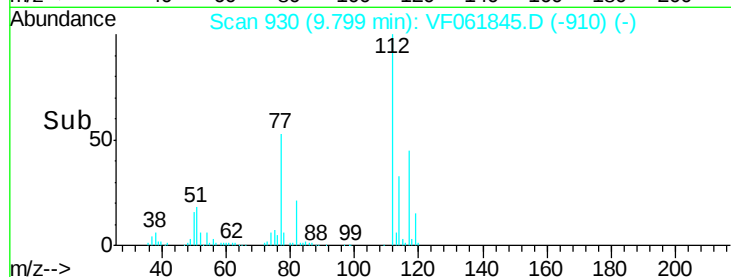
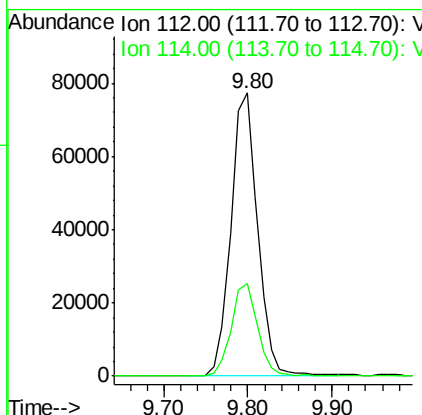
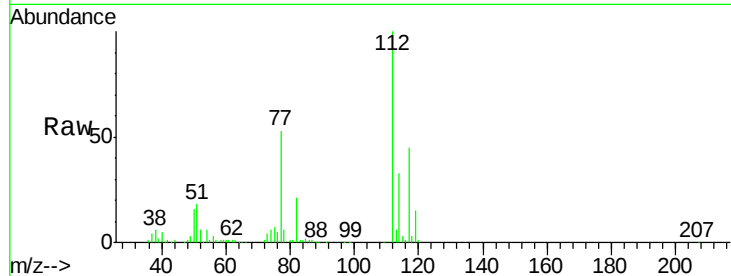
#65
Chlorobenzene
Concen: 22.604 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	171118		
114	32.5	25.5	38.3	

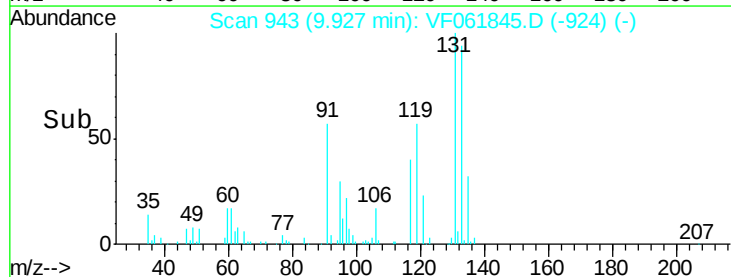
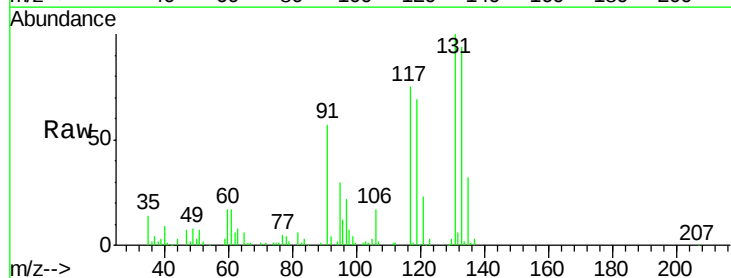
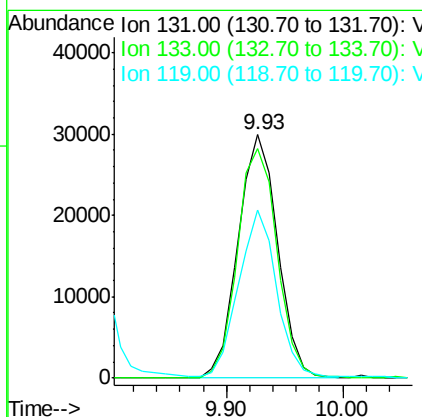
Manual Integrations
APPROVED

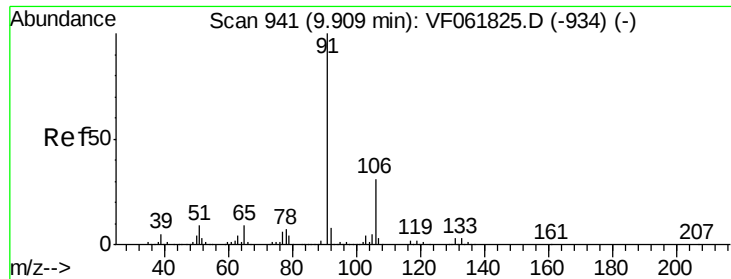
MMDadoda
3/8/2019 12:12:11 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 23.943 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	70225		
133	94.4	48.9	146.7	
119	69.2	33.6	100.8	





#67

Ethyl Benzene

Concen: 24.244 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion: 91 Resp: 304194

Ion Ratio Lower Upper

91 100

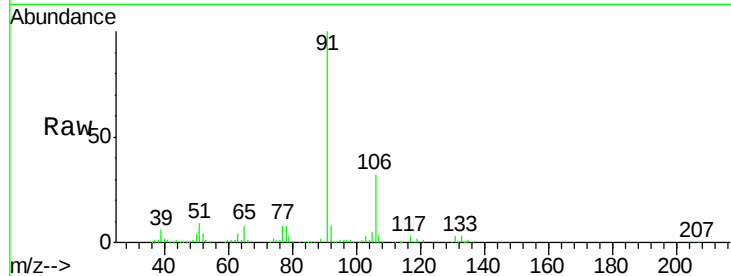
106 32.0 25.0 37.4

Manual Integrations

APPROVED

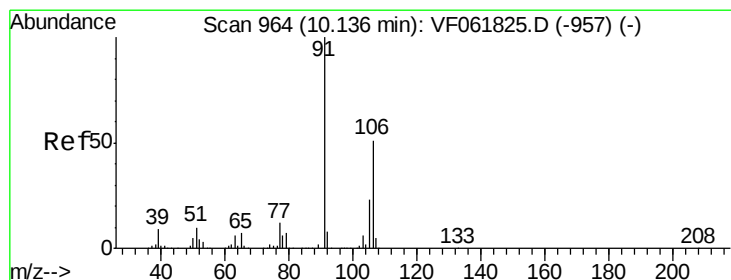
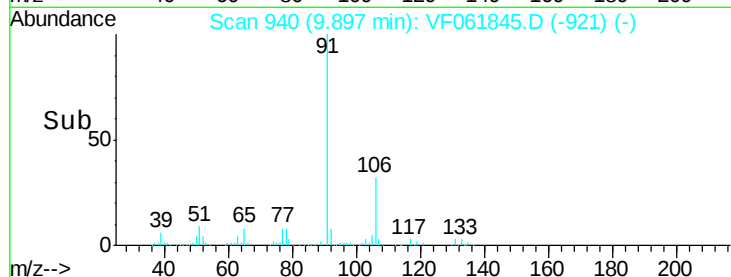
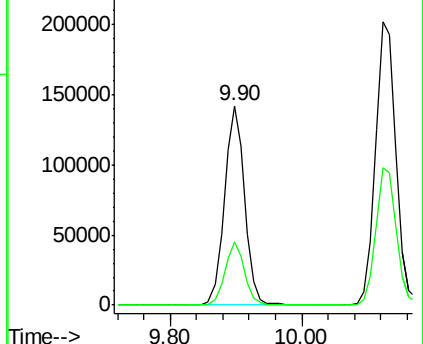
MMDadoda

3/8/2019 12:12:11 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 45.212 ug/l

RT: 10.12 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061845.D

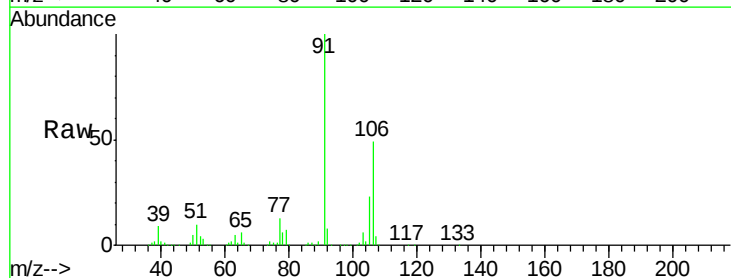
Acq: 5 Mar 2019 15:12

Tgt Ion: 106 Resp: 217319

Ion Ratio Lower Upper

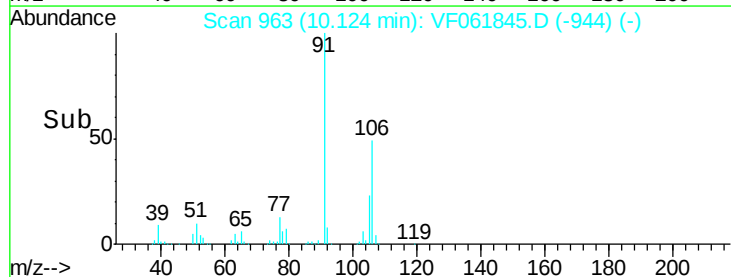
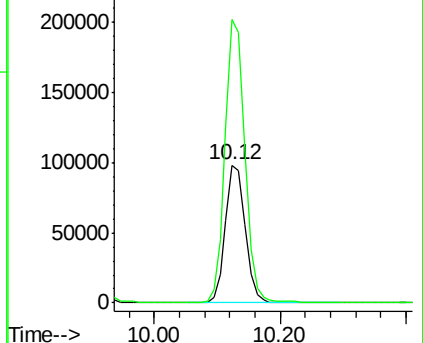
106 100

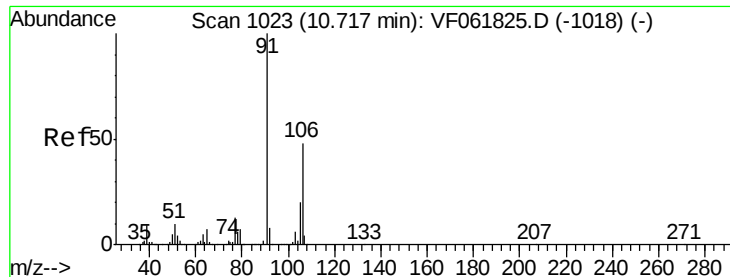
91 205.0 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





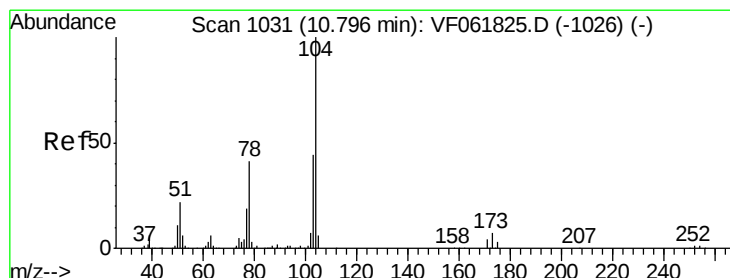
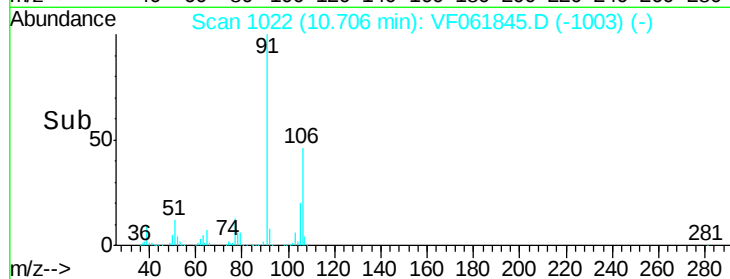
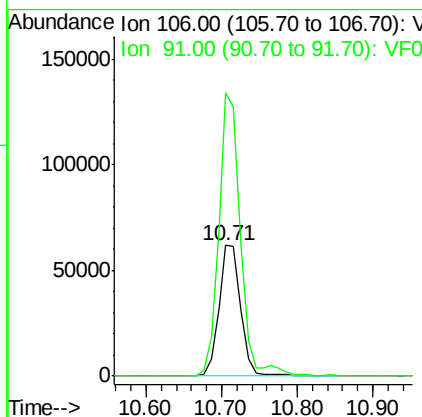
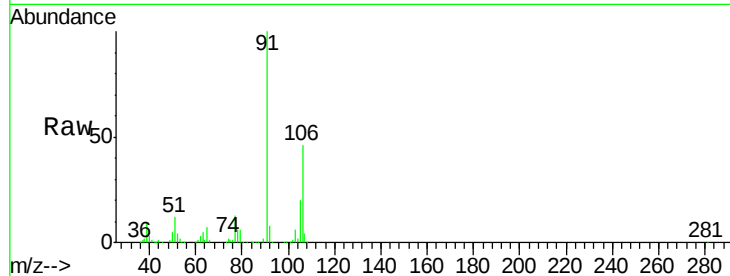
#69
o-Xylene
Concen: 24.074 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	124601		
91	91	216.7	103.5	310.3	

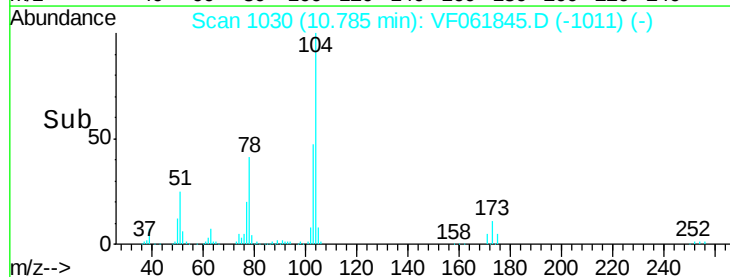
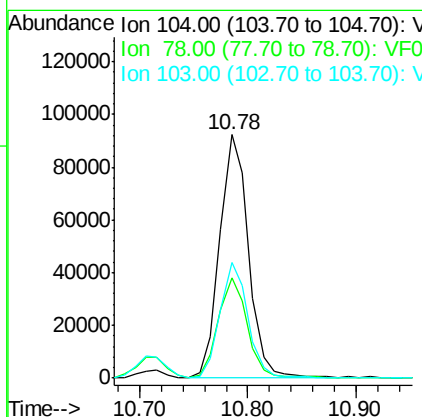
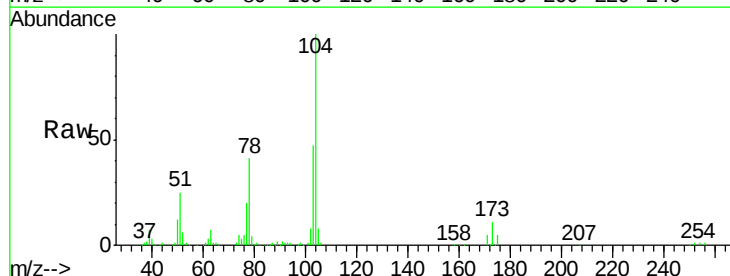
Manual Integrations
APPROVED

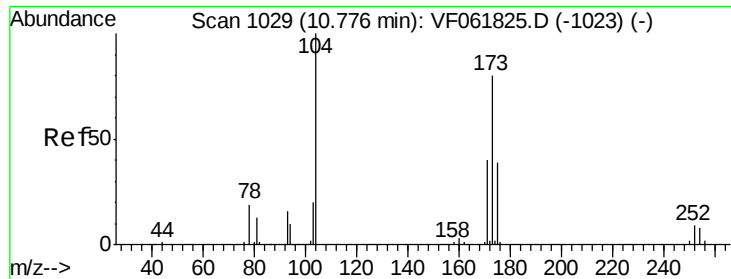
MMDadoda
3/8/2019 12:12:11 AM



#70
Styrene
Concen: 23.365 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	170196		
78	78	41.2	33.3	49.9	
103	103	47.5	35.4	53.0	





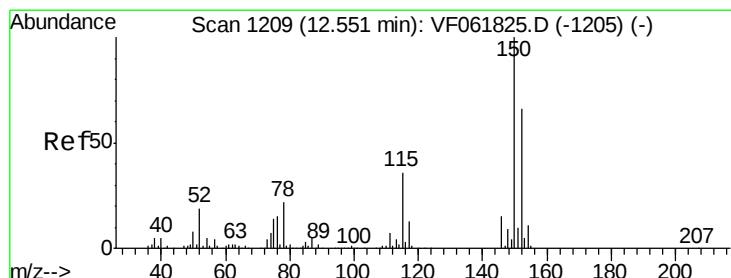
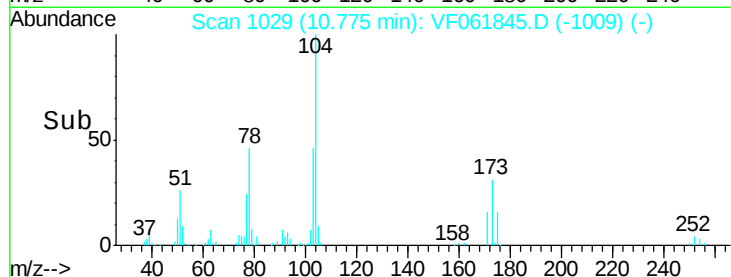
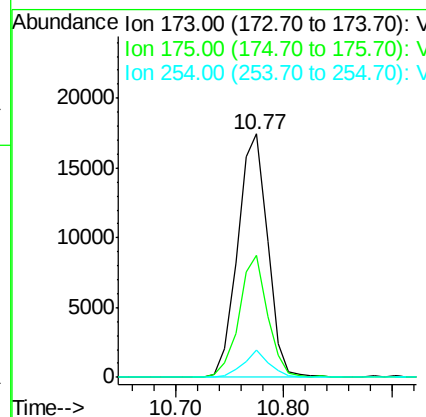
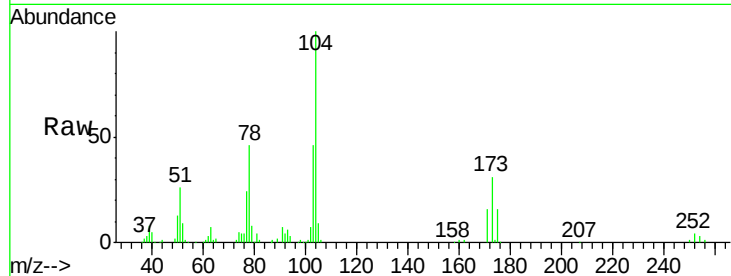
#71
Bromoform
Concen: 21.648 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.1	24.5	73.5
254	11.3	8.0	12.0

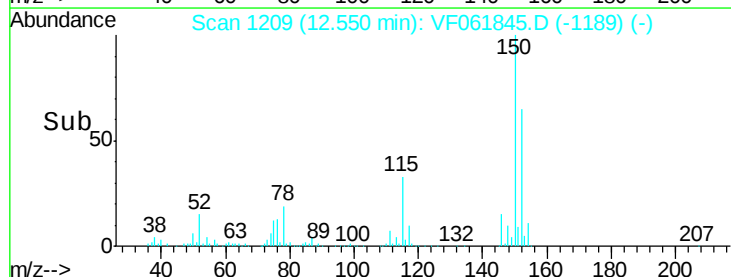
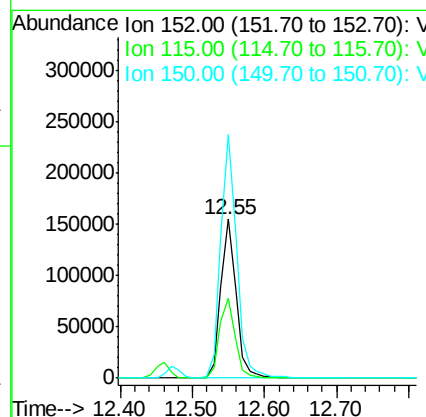
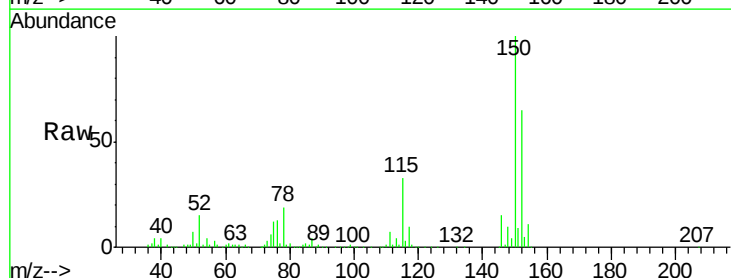
Manual Integrations
APPROVED

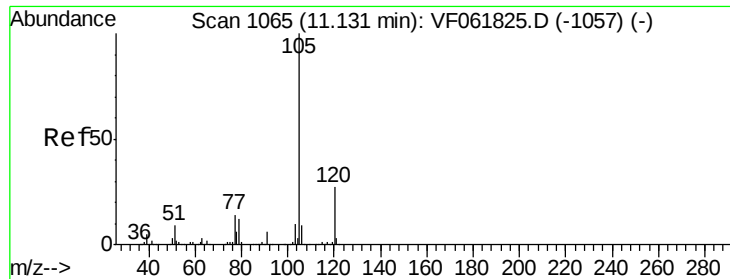
MMDadoda
3/8/2019 12:12:11 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	50.5	27.7	83.1
150	153.2	0.0	304.2





#73

Isopropylbenzene

Concen: 22.324 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion:105 Resp: 348108

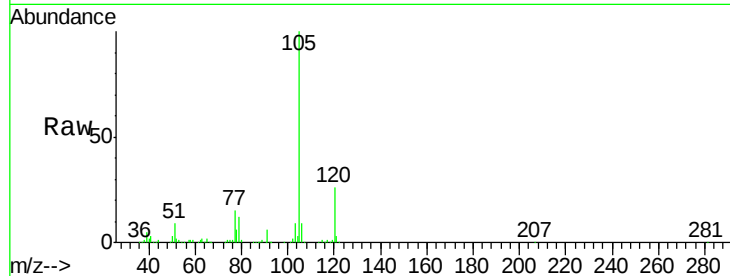
Ion Ratio Lower Upper

105 100

120 26.2 13.7 41.0

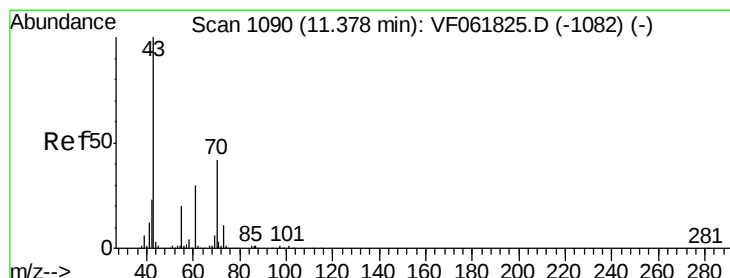
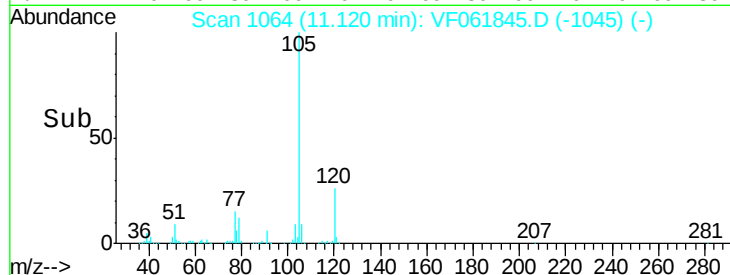
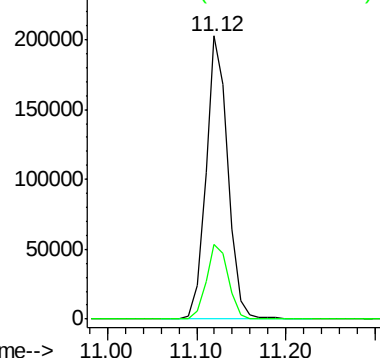
Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:11 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: 21.578 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion: 43 Resp: 77459

Ion Ratio Lower Upper

43 100

70 41.0 33.4 50.0

55 21.6 16.3 24.5

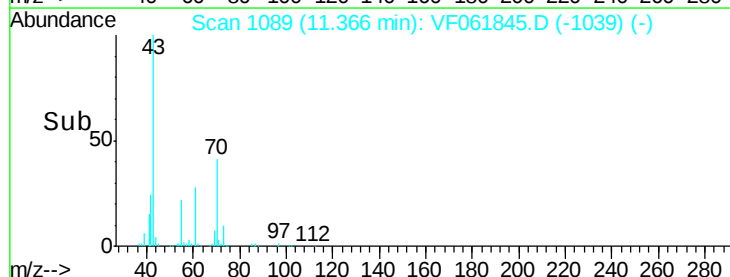
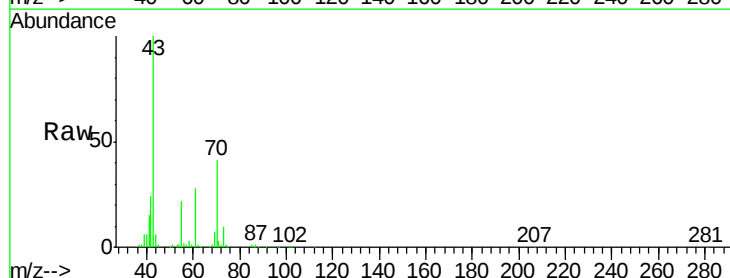
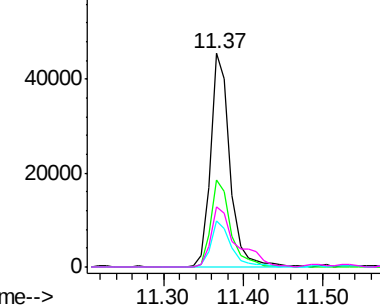
61 28.2 24.0 36.0

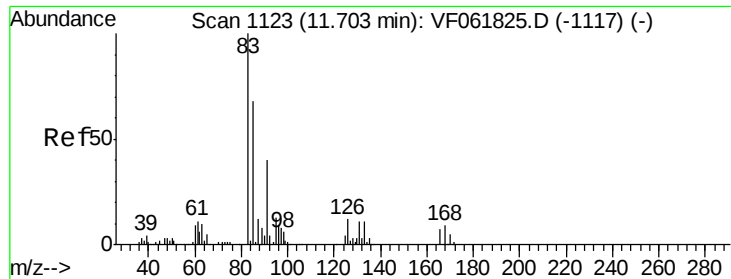
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 20.345 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

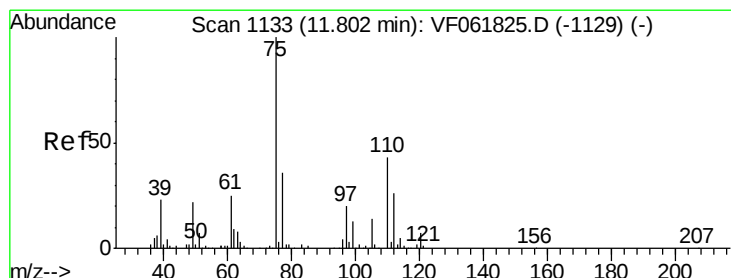
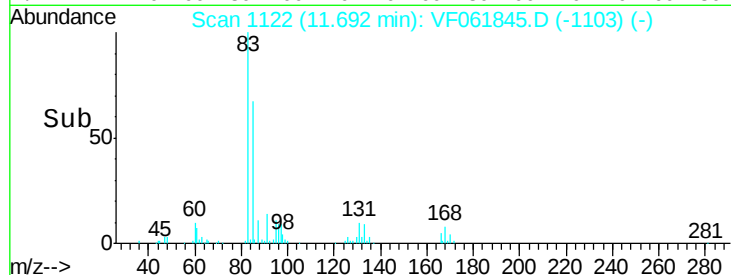
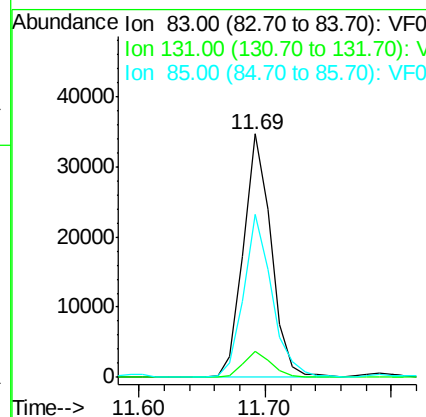
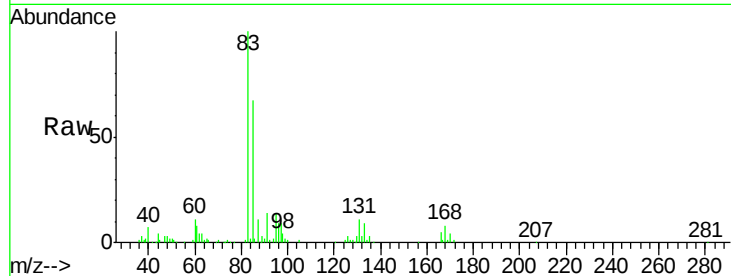
ClientSampleId :

VF0305SBS01

Tot Ion	83	Resp	52727
Ion Ratio	100	Lower	Upper
83	100		
131	10.7	5.5	16.7
85	66.9	34.2	102.6

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#76

1,2,3-Trichloropropane

Concen: 21.624 ug/l

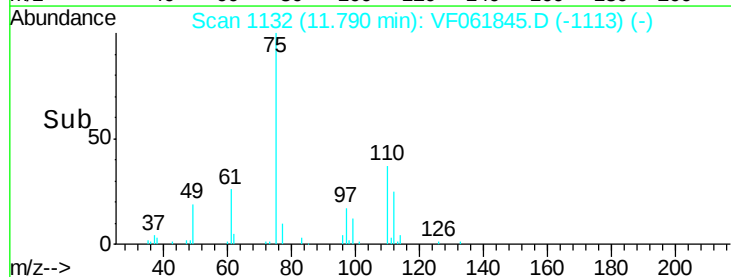
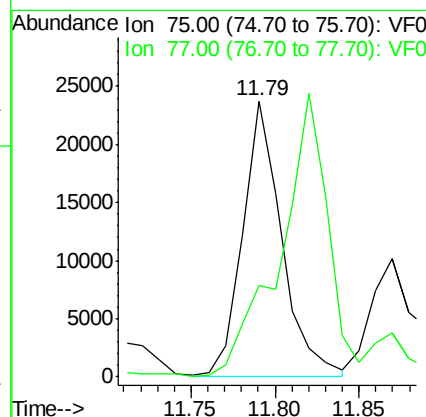
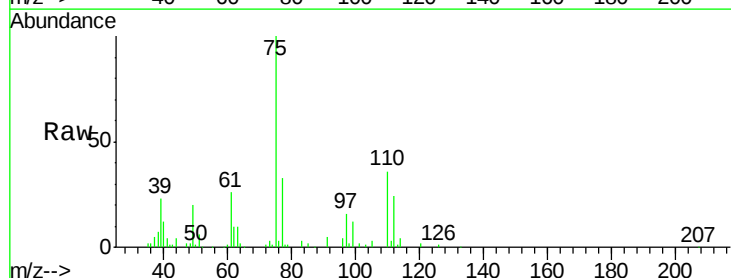
RT: 11.79 min Scan# 1132

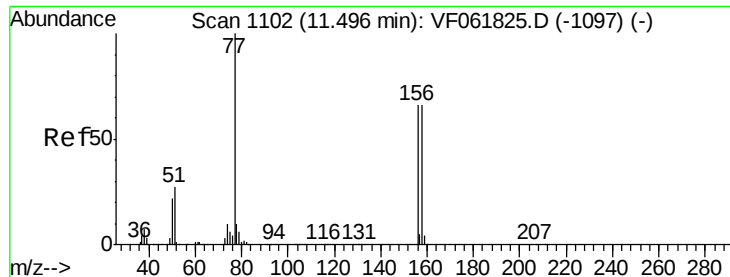
Delta R.T. -0.01 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion	75	Resp	38248
Ion Ratio	100	Lower	Upper
75	100		
77	33.2	18.1	54.4





#77

Bromobenzene

Concen: 21.350 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

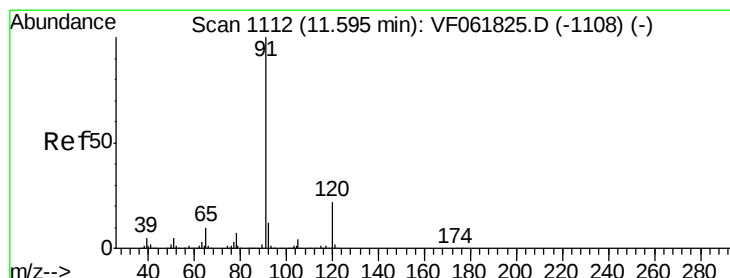
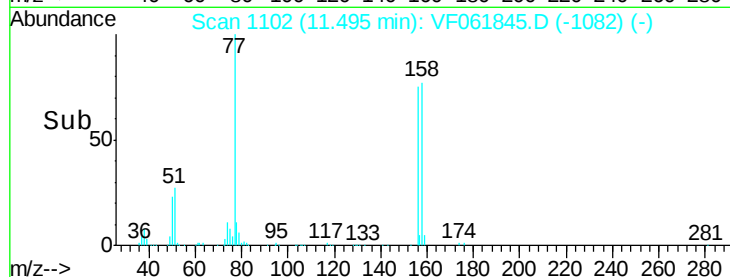
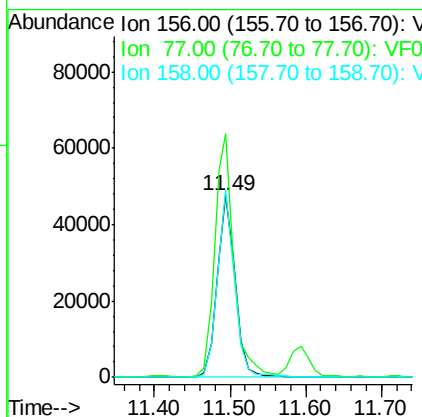
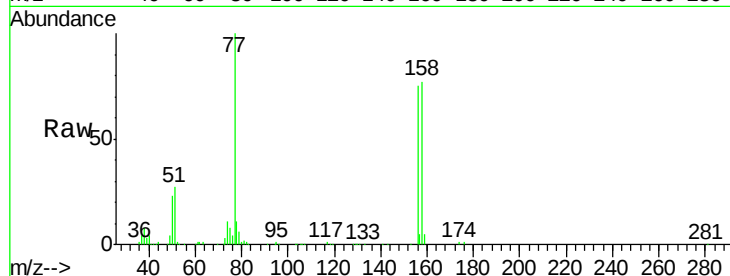
ClientSampleId :

VF0305SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	133.8	75.7	227.1	
158	103.1	50.0	150.1	

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#78

n-propylbenzene

Concen: 22.477 ug/l

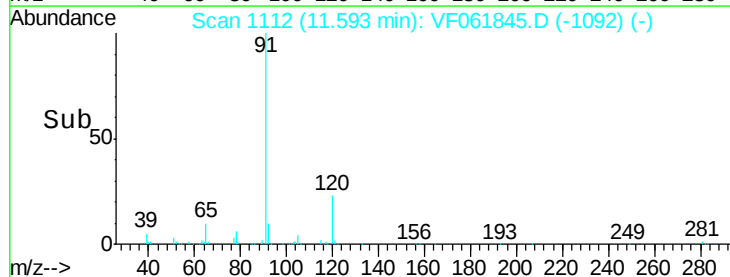
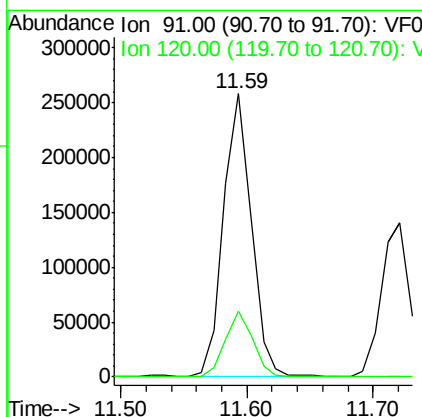
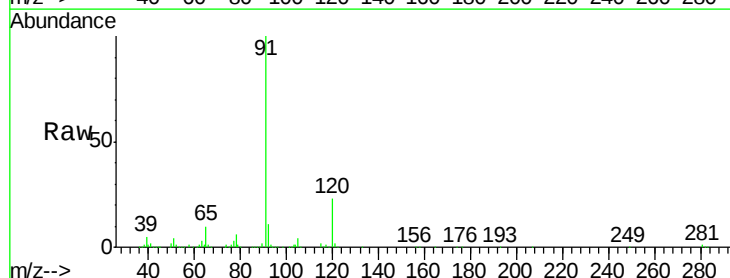
RT: 11.59 min Scan# 1112

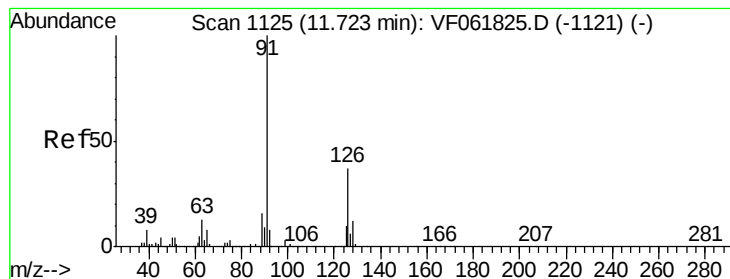
Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.1	11.1	33.1	





#79

2-Chlorotoluene

Concen: 22.092 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

ClientSampleId :

VF0305SBS01

Tot Ion: 91 Resp: 222409

Ion Ratio Lower Upper

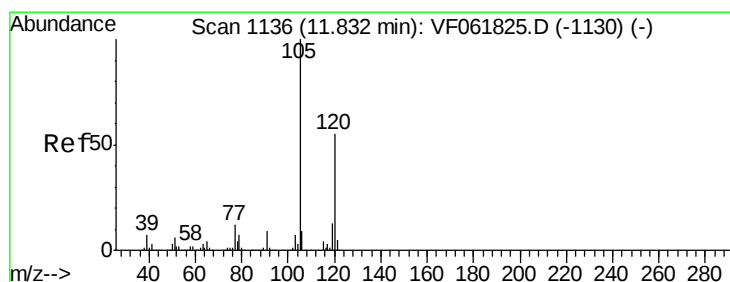
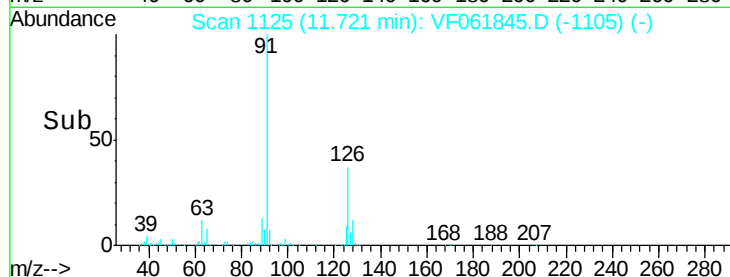
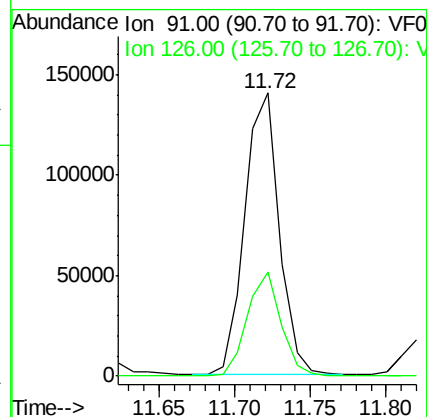
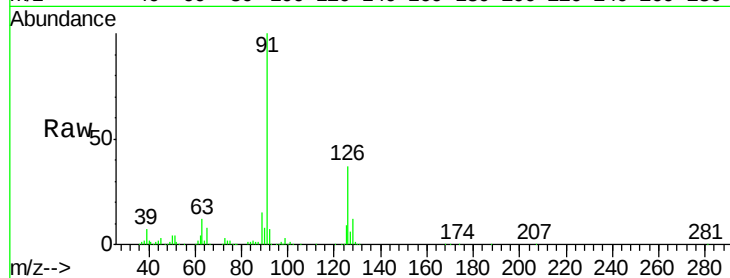
91 100

126 36.7 18.1 54.4

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#80

1,3,5-Trimethylbenzene

Concen: 22.594 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061845.D

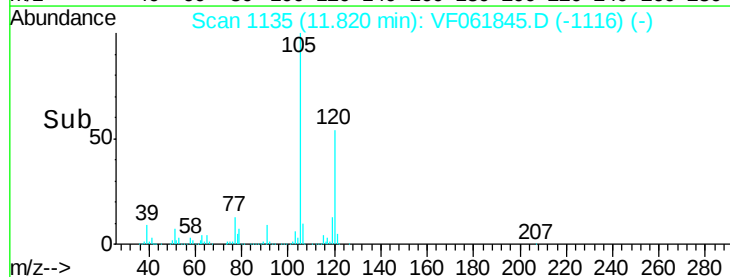
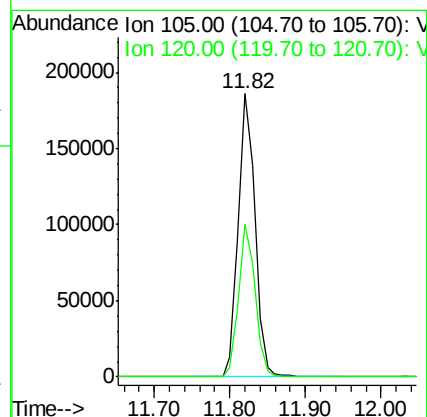
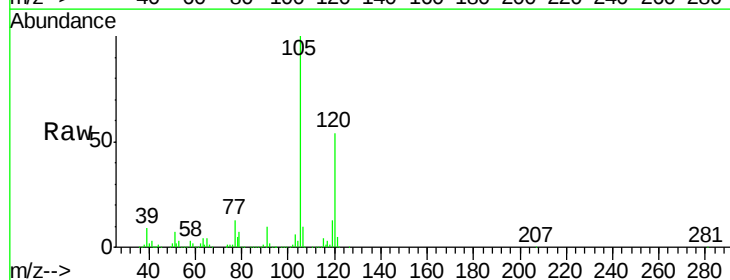
Acq: 5 Mar 2019 15:12

Tgt Ion:105 Resp: 282865

Ion Ratio Lower Upper

105 100

120 53.8 27.4 82.2





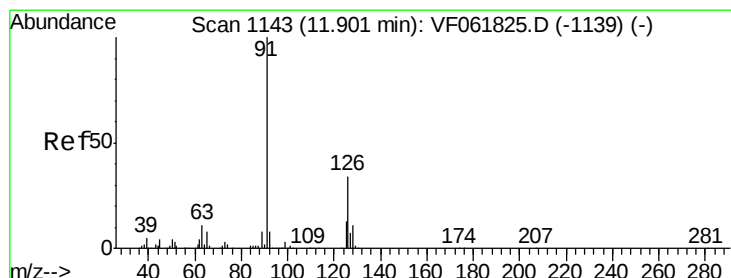
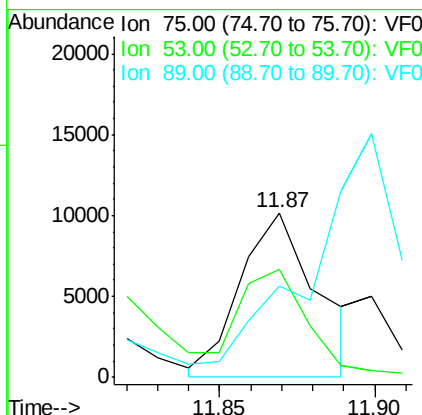
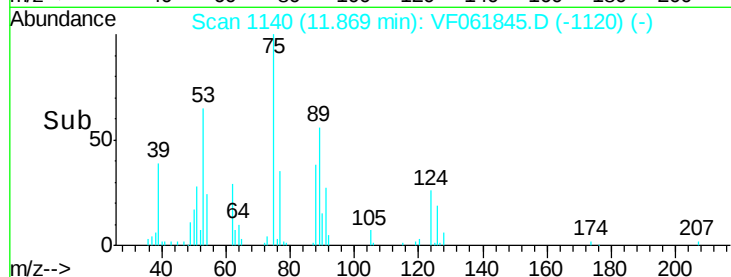
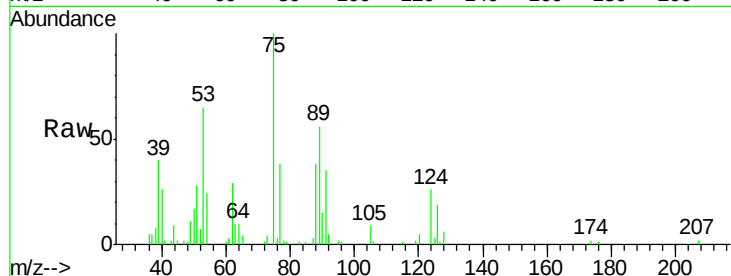
#81
trans-1,4-Dichloro-2-butene
Concen: 21.795 ug/l m
RT: 11.87 min Scan# 1140
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	65.2	58.6	88.0
89	55.7	41.4	62.0

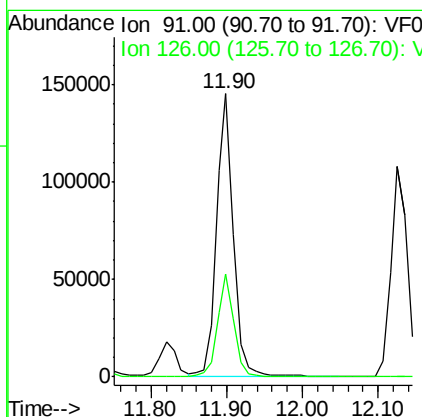
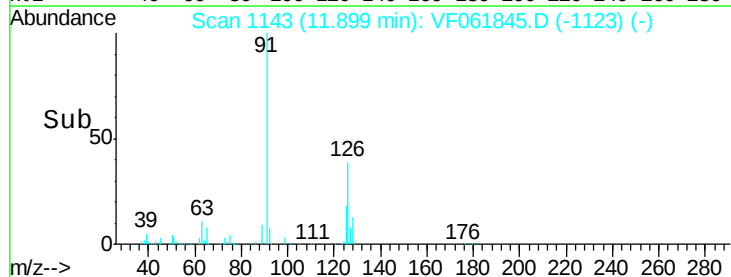
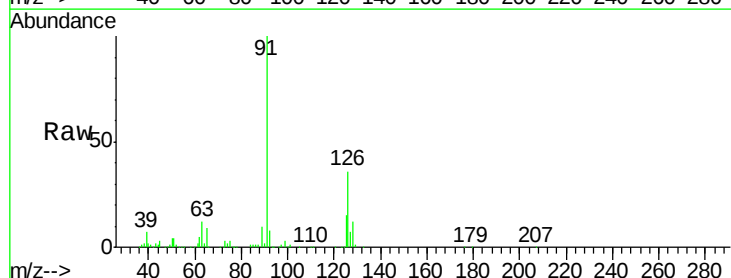
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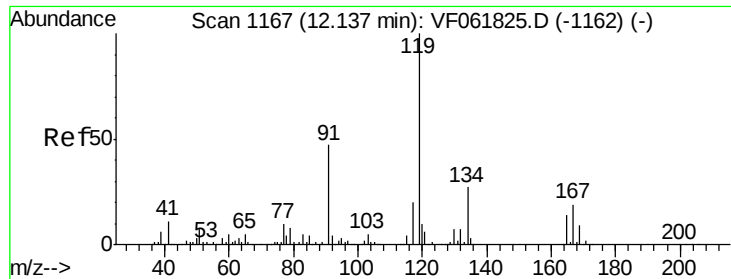
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#82
4-Chlorotoluene
Concen: 22.081 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
91	100		
126	36.3	17.0	50.9





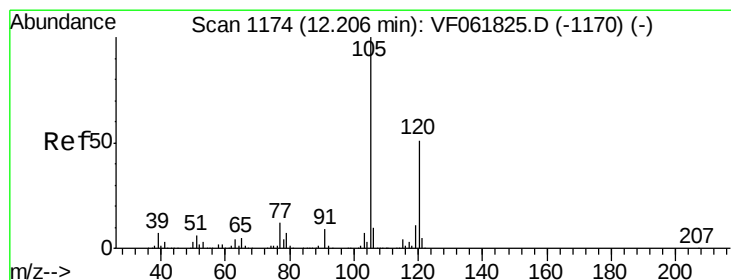
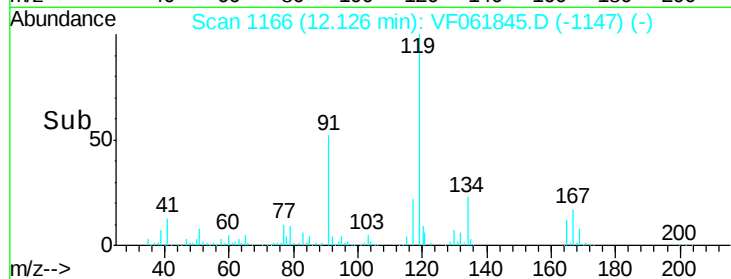
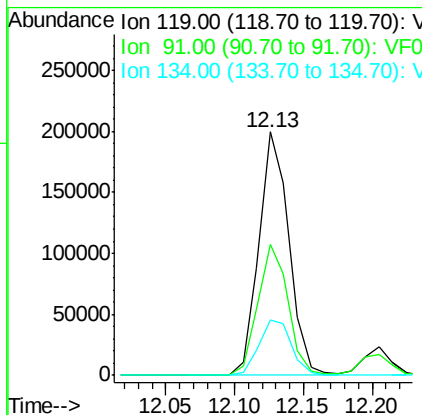
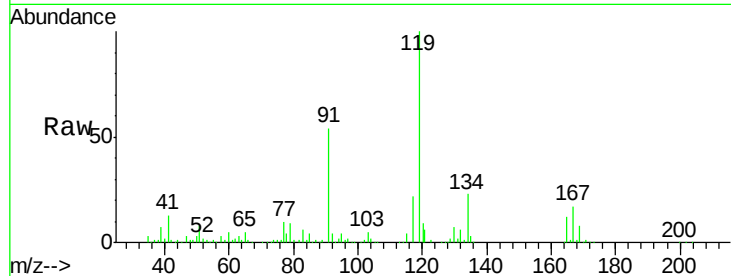
#83
 tert-Butylbenzene
 Concen: 22.895 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0305SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	304354		
91	54.0	23.5	70.5	
134	22.9	13.3	39.8	

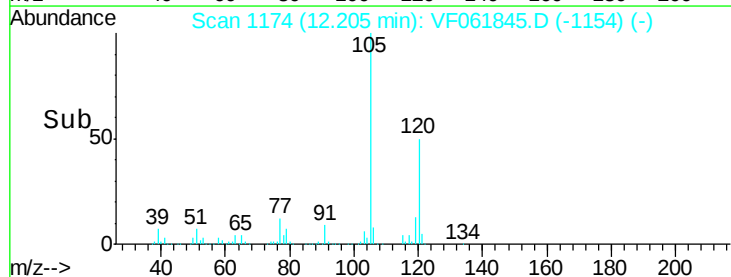
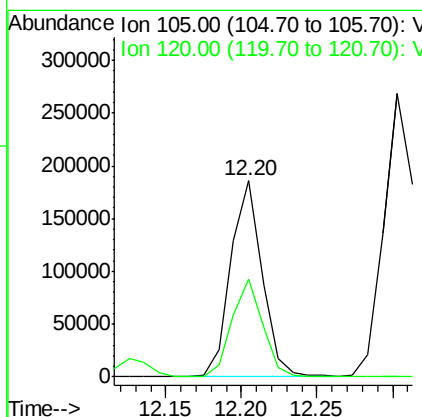
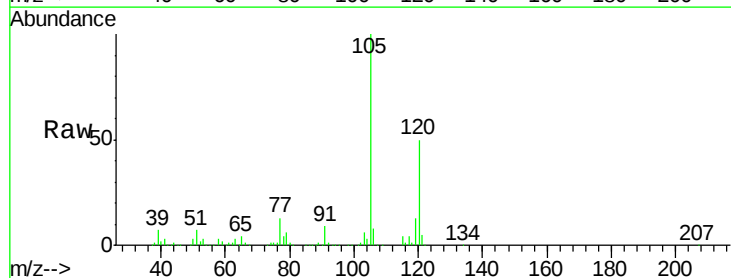
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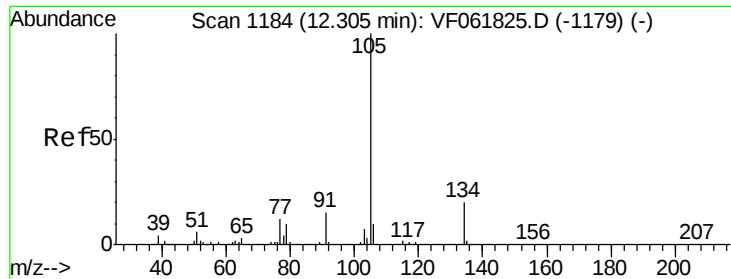
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.895 ug/l
 RT: 12.20 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	268711		
120	49.7	25.8	77.4	





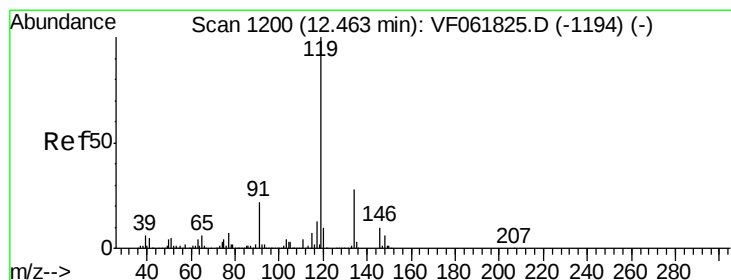
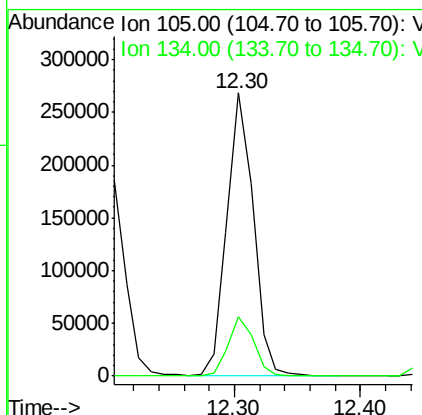
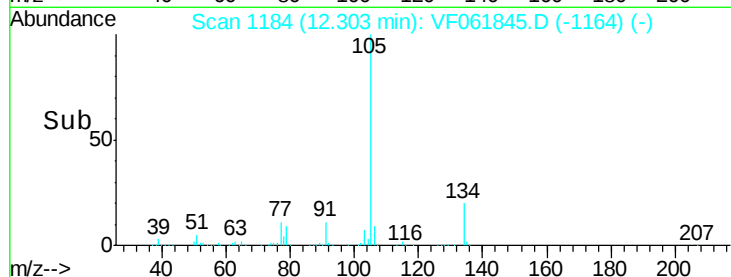
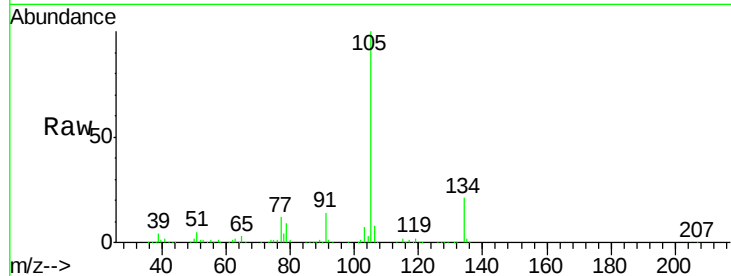
#85
 sec-Butylbenzene
 Concen: 22.564 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0305SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.0	9.8	29.5

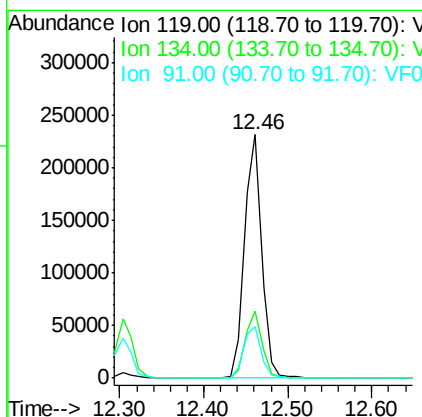
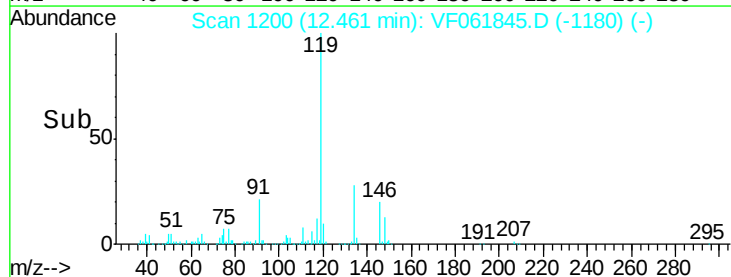
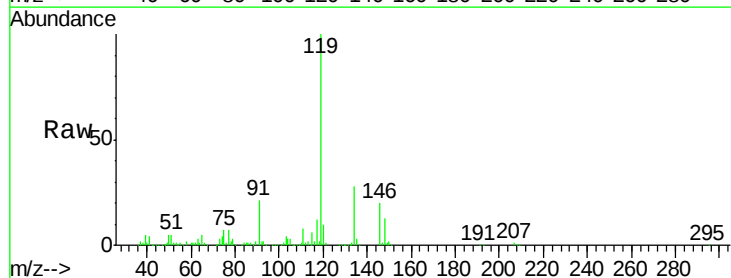
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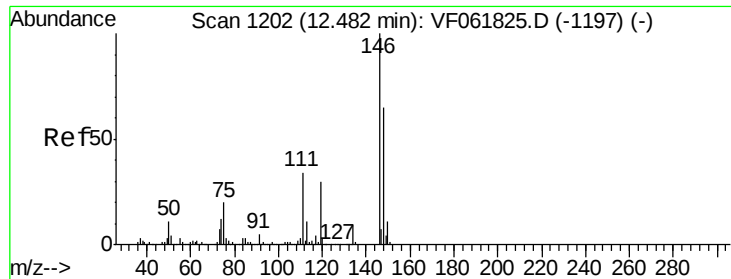
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#86
 p-Isopropyltoluene
 Concen: 22.396 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.7	14.0	42.0
91	21.4	11.1	33.3





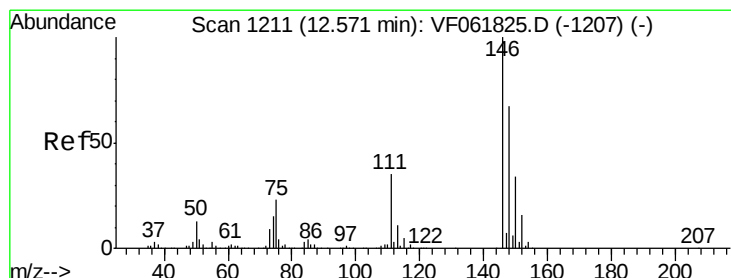
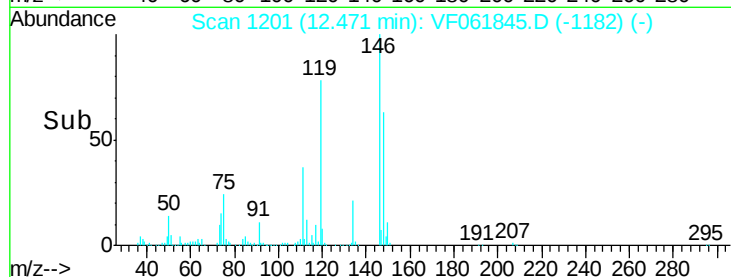
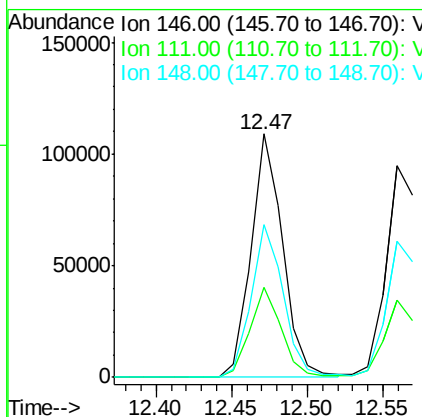
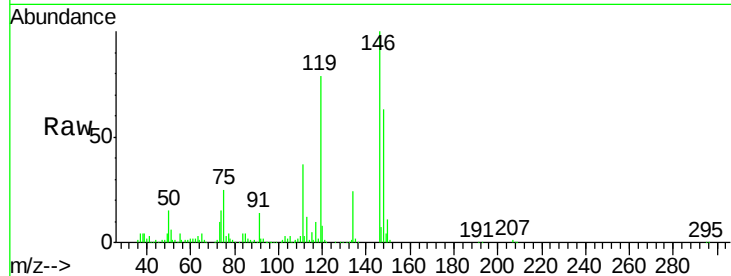
#87
 1,3-Dichlorobenzene
 Concen: 22.405 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0305SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.9	17.0	51.0
148	62.9	32.5	97.5

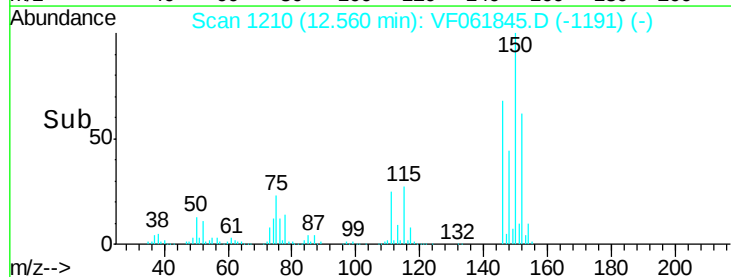
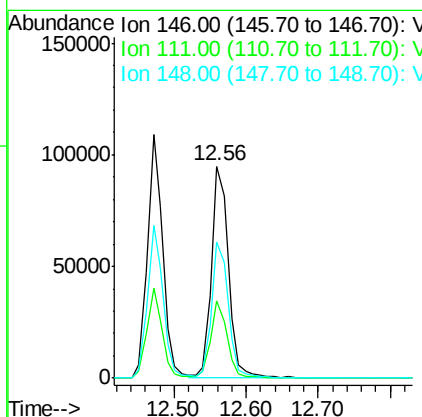
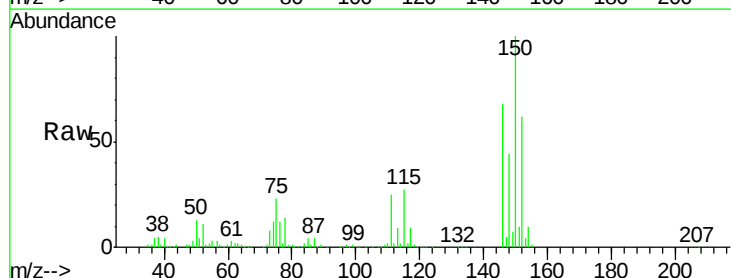
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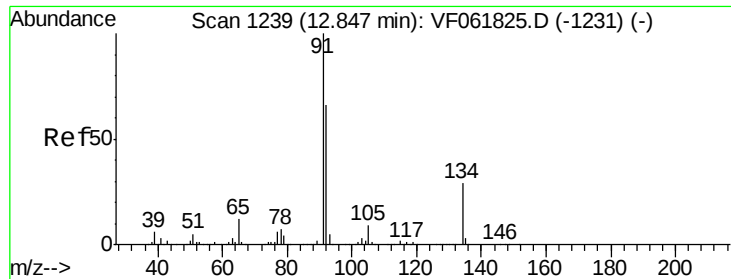
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#88
 1,4-Dichlorobenzene
 Concen: 22.344 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.1	17.6	52.9
148	64.5	33.5	100.4





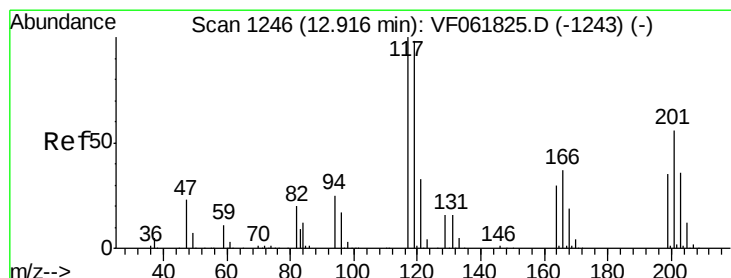
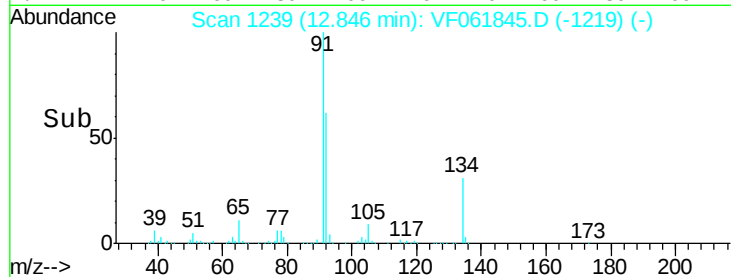
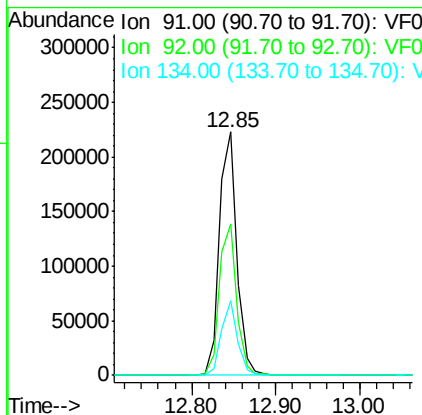
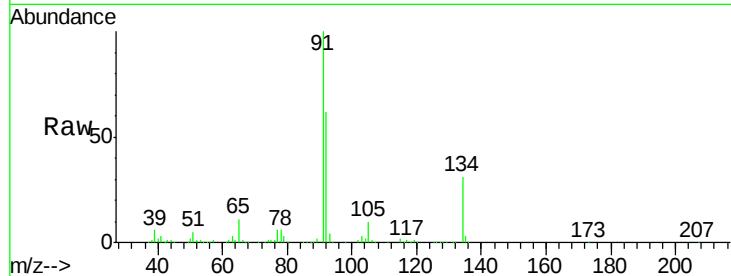
#89
n-Butylbenzene
Concen: 22.955 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Instrument :
MSVOA_F
ClientSampleId :
VF0305SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.0	32.9	98.6
134	30.7	14.5	43.6

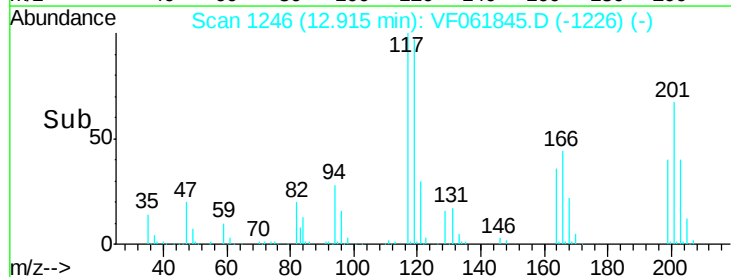
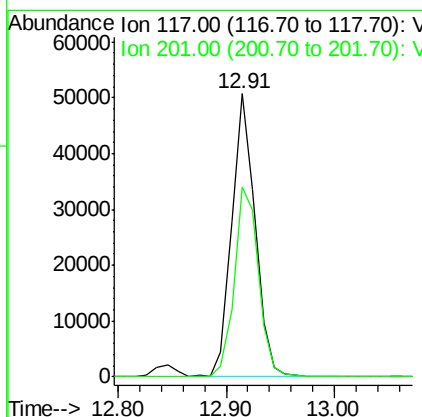
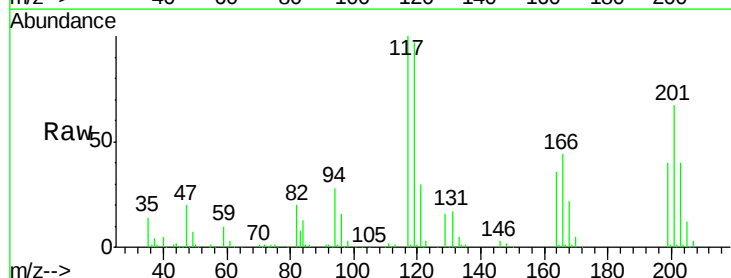
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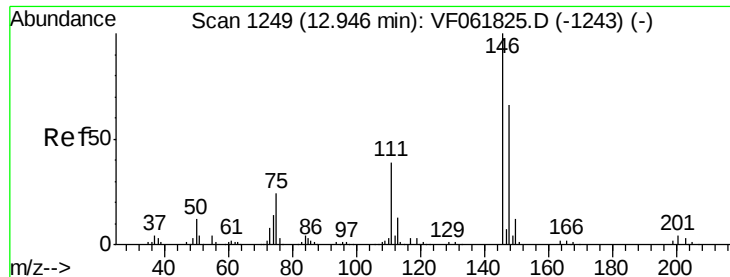
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#90
Hexachloroethane
Concen: 21.663 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061845.D
Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
117	100		
201	66.9	27.8	83.4





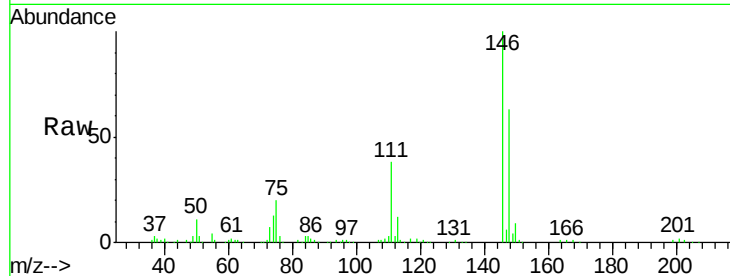
#91
 1,2-Dichlorobenzene
 Concen: 22.782 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0305SBS01

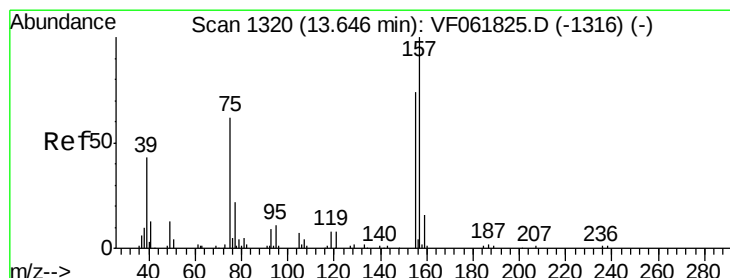
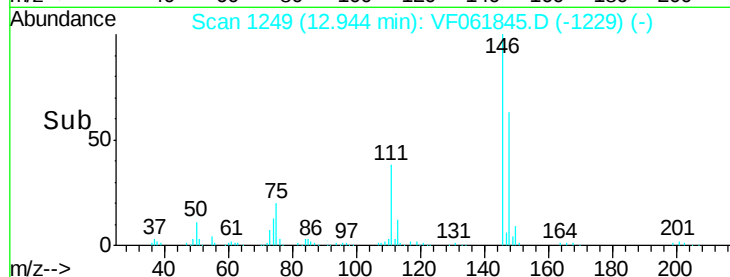
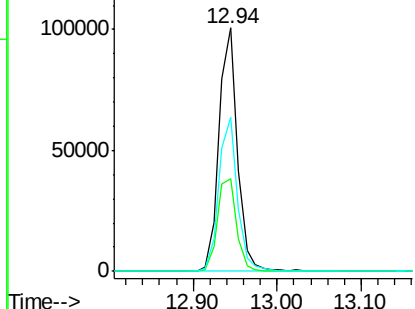
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.4	58.4
148	63.4	33.0	98.9

Manual Integrations
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 3/8/2019 12:12:11 AM

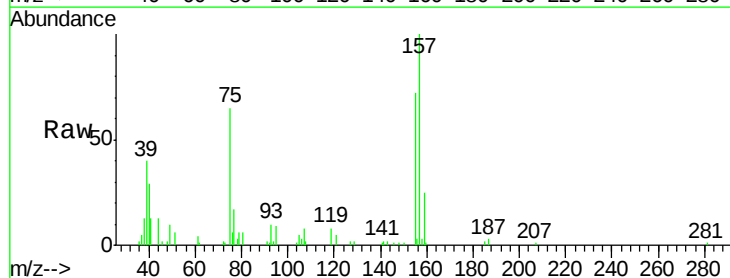


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

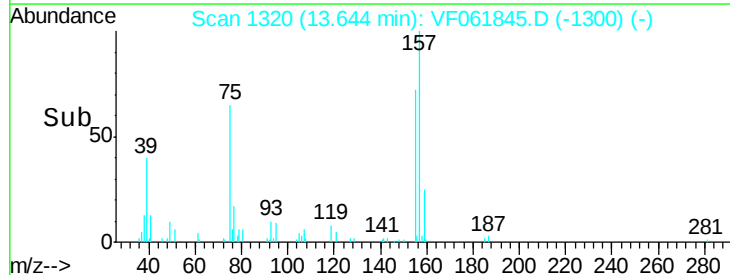
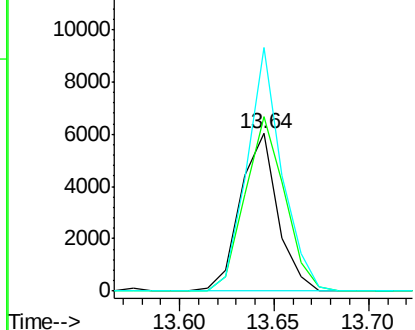


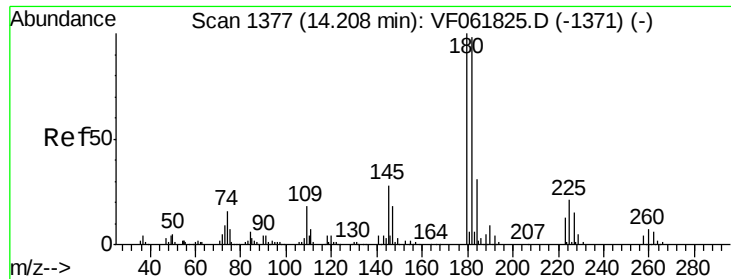
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.687 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Lower	Upper
75	100		
155	110.9	59.8	179.4
157	154.3	81.2	243.4



Abundance Ion 75.00 (74.70 to 75.70): VF0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V





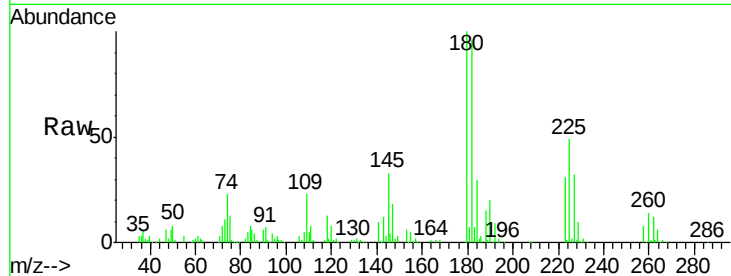
#93
 1,2,4-Trichlorobenzene
 Concen: 22.585 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0305SBS01

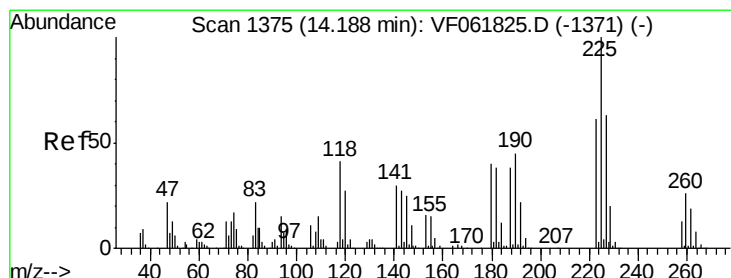
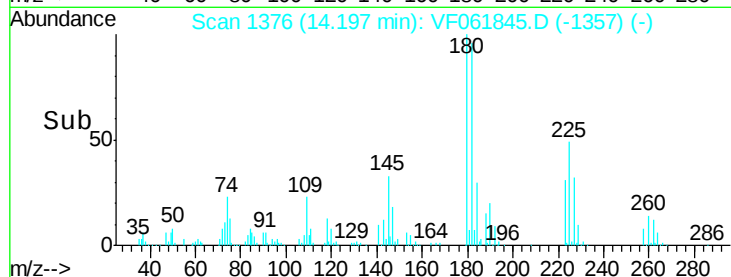
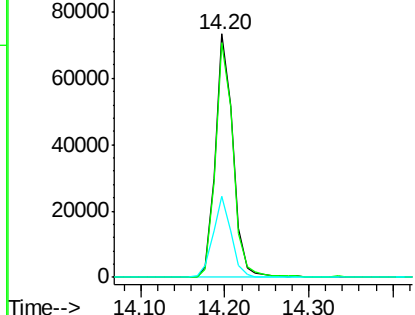
Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.3	49.0	147.2	
145	33.5	14.1	42.4	

Manual Integrations
 APPROVED

MMDadoda
 3/8/2019 12:12:11 AM

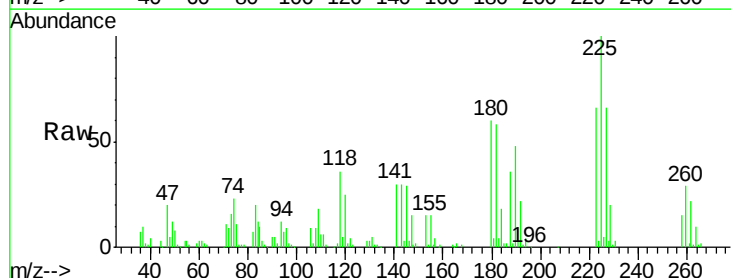


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

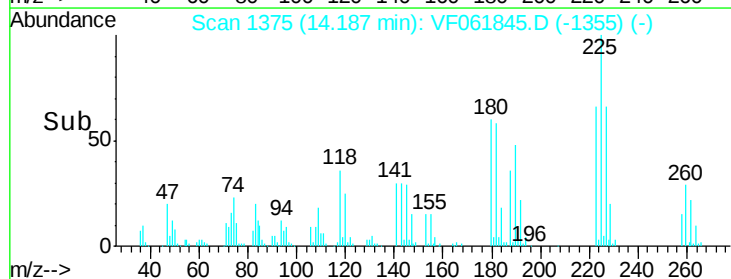
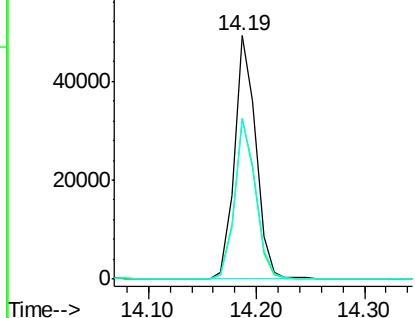


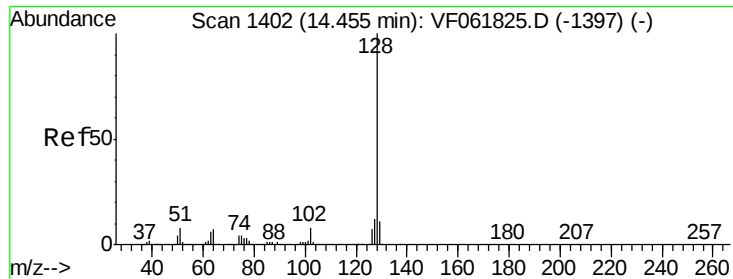
#94
 Hexachlorobutadiene
 Concen: 20.815 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061845.D
 Acq: 5 Mar 2019 15:12

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	65.9	30.3	90.9	
227	66.1	31.3	93.8	



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





#95

Naphthalene

Concen: 20.344 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Instrument :

MSVOA_F

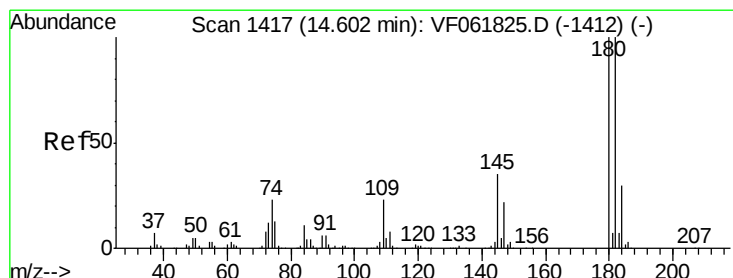
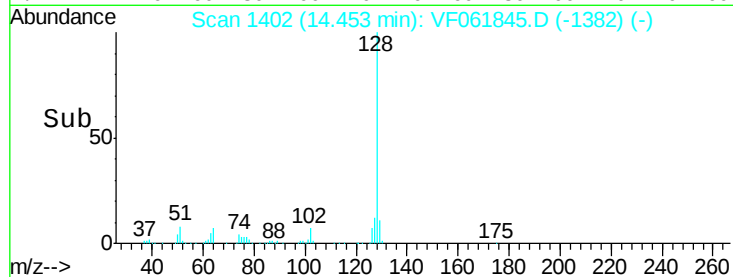
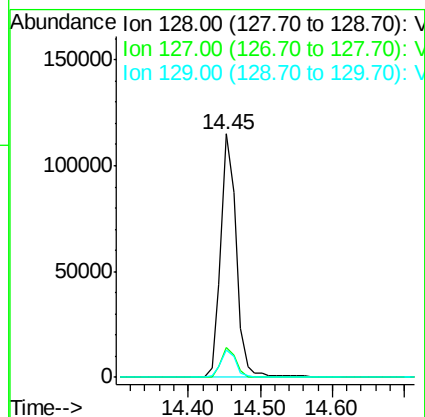
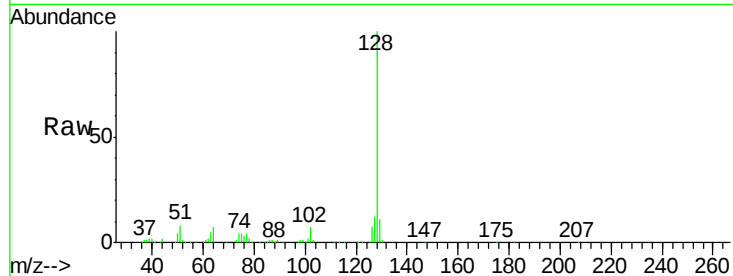
ClientSampleId :

VF0305SBS01

Tot Ion:	128	Resp:	171504
Ion Ratio	Lower	Upper	
128	100		
127	12.0	9.3	13.9
129	11.1	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
3/8/2019 12:12:11 AM



#96

1,2,3-Trichlorobenzene

Concen: 22.320 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF061845.D

Acq: 5 Mar 2019 15:12

Tgt Ion:	180	Resp:	97541
Ion Ratio	Lower	Upper	
180	100		
182	94.1	50.2	150.7
145	30.6	17.5	52.5

