

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF031119\
 Data File : VF061886.D
 Acq On : 11 Mar 2019 13:36
 Operator : VA/AP
 Sample : VF0311SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0311SBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/12/2019 4:36:55 PM

Quant Time: Mar 12 05:28:28 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	286305	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.59	114	419997	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.77	117	367893	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	198682	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	111556	53.50	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	107.00%	
35) Dibromofluoromethane	4.11	113	152374	51.99	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	103.98%	
50) Toluene-d8	7.55	98	408638	46.91	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	93.82%	
62) 4-Bromofluorobenzene	11.41	95	169564	49.69	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	99.38%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	89333	25.415	ug/l	90
3) Chloromethane	1.10	50	80180	23.537	ug/l	96
4) Vinyl Chloride	1.14	62	80016	24.744	ug/l	94
5) Bromomethane	1.33	94	51345	23.298	ug/l	96
6) Chloroethane	1.40	64	36819	23.952	ug/l	93
7) Trichlorofluoromethane	1.50	101	99262m	25.133	ug/l	
8) Diethyl Ether	1.62	74	22298	24.827	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	1.84	101	65243	24.326	ug/l	97
10) Methyl Iodide	1.91	142	125187m	24.527	ug/l	
11) Tert butyl alcohol	2.57	59	14451	122.111	ug/l #	86
12) 1,1-Dichloroethene	1.79	96	57777	23.596	ug/l	95
13) Acrolein	2.00	56	14800	98.697	ug/l	97
14) Allyl chloride	2.09	41	73682	27.314	ug/l	91
15) Acrylonitrile	2.94	53	44311	117.587	ug/l	100
16) Acetone	2.24	43	58701	134.405	ug/l	93
17) Carbon Disulfide	1.81	76	176664	23.178	ug/l	100
18) Methyl Acetate	2.34	43	26450	31.551	ug/l	94
19) Methyl tert-butyl Ether	2.42	73	99954	24.131	ug/l	97
20) Methylene Chloride	2.18	84	65564m	24.321	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	59102	25.646	ug/l	88
22) Diisopropyl ether	2.80	45	166706	23.757	ug/l	95
23) Vinyl Acetate	3.18	43	369632	117.915	ug/l	100
24) 1,1-Dichloroethane	2.87	63	105260	25.097	ug/l	99
25) 2-Butanone	4.33	43	103891	116.944	ug/l #	86
26) 2,2-Dichloropropane	3.60	77	47969	25.620	ug/l	99
27) cis-1,2-Dichloroethene	3.47	96	75595	23.677	ug/l	97
28) Bromochloromethane	3.71	49	42587	23.294	ug/l #	98
29) Tetrahydrofuran	4.07	42	45007	117.471	ug/l	97
30) Chloroform	3.85	83	114104	23.818	ug/l	97
31) Cyclohexane	3.68	56	94327m	21.472	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	69403	23.504	ug/l	95
36) 1,1-Dichloropropene	4.28	75	94410	23.797	ug/l	96
37) Ethyl Acetate	4.11	43	40058	24.056	ug/l	90
38) Carbon Tetrachloride	3.98	117	71982	25.630	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	107036	22.842	ug/l	99
40) Benzene	4.62	78	239371	23.083	ug/l	98
41) Methacrylonitrile	4.74	41	20233	22.177	ug/l	92
42) 1,2-Dichloroethane	4.94	62	62334	24.120	ug/l	91
43) Isopropyl Acetate	6.95	43	45014	21.930	ug/l	93
44) Trichloroethene	5.50	130	77323	23.993	ug/l	100
45) 1,2-Dichloropropane	6.23	63	55479	22.498	ug/l	96
46) Dibromomethane	6.08	93	36220	23.338	ug/l	97
47) Bromodichloromethane	6.38	83	79309	23.131	ug/l	98
48) Methyl methacrylate	6.71	41	29887	23.006	ug/l	93
49) 1,4-Dioxane	6.71	88	4926	414.802	ug/l #	72
51) 4-Methyl-2-Pentanone	8.25	43	163900	115.530	ug/l	95
52) Toluene	7.62	92	140219	22.857	ug/l	96
53) t-1,3-Dichloropropene	8.27	75	62140	21.956	ug/l	94
54) cis-1,3-Dichloropropene	7.29	75	88884	22.769	ug/l	98
55) 1,1,2-Trichloroethane	8.49	97	39942	22.597	ug/l	97
56) Ethyl methacrylate	8.62	69	45166	22.673	ug/l	98
57) 1,3-Dichloropropane	8.84	76	67965	23.512	ug/l	91
58) 2-Chloroethyl Vinyl ether	7.28	63	36464	115.713	ug/l	89
59) 2-Hexanone	9.48	43	118269	115.559	ug/l	94
60) Dibromochloromethane	8.70	129	58372	23.170	ug/l	95
61) 1,2-Dibromoethane	8.98	107	42446	21.837	ug/l	100
64) Tetrachloroethene	8.14	164	68531	24.243	ug/l	94
65) Chlorobenzene	9.79	112	156871	22.194	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.93	131	65908	24.067	ug/l	96
67) Ethyl Benzene	9.90	91	272542	23.264	ug/l	97
68) m/p-Xylenes	10.12	106	197737	44.060	ug/l	92
69) o-Xylene	10.71	106	112246	23.227	ug/l	95
70) Styrene	10.78	104	152591	22.437	ug/l	99
71) Bromoform	10.76	173	32651	22.560	ug/l #	99
73) Isopropylbenzene	11.12	105	330143	24.136	ug/l	98
74) N-amyl acetate	11.37	43	75367	23.934	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	53509	23.537	ug/l	94
76) 1,2,3-Trichloropropane	11.79	75	35834	23.095	ug/l	95
77) Bromobenzene	11.48	156	73126	22.214	ug/l	99
78) n-propylbenzene	11.58	91	366384	23.719	ug/l	97
79) 2-Chlorotoluene	11.71	91	206434	23.376	ug/l	96
80) 1,3,5-Trimethylbenzene	11.82	105	259291	23.611	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	15699m	22.127	ug/l	
82) 4-Chlorotoluene	11.89	91	211120	23.372	ug/l	97
83) tert-Butylbenzene	12.13	119	278227	23.859	ug/l	93
84) 1,2,4-Trimethylbenzene	12.19	105	248649	23.097	ug/l	95
85) sec-Butylbenzene	12.30	105	372110	24.521	ug/l	98
86) p-Isopropyltoluene	12.45	119	302696	23.467	ug/l	98
87) 1,3-Dichlorobenzene	12.47	146	144845	23.173	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	137464	22.798	ug/l	98
89) n-Butylbenzene	12.84	91	302807	24.564	ug/l	95
90) Hexachloroethane	12.91	117	72621	23.390	ug/l	82
91) 1,2-Dichlorobenzene	12.93	146	142509	24.064	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.63	75	8909	24.635	ug/l	71

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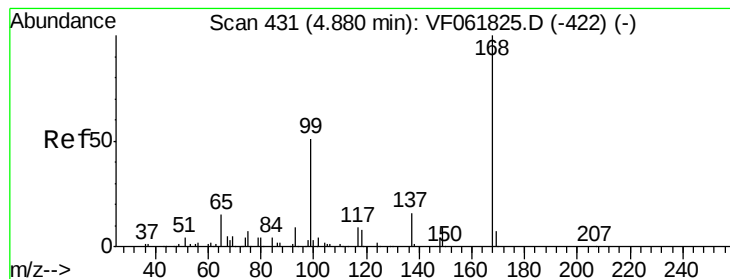
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	97080	23.383	ug/l	98
94) Hexachlorobutadiene	14.19	225	63055	21.938	ug/l	95
95) Naphthalene	14.45	128	166226	22.479	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	88699	23.138	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBS01

Tot Ion:168 Resp: 286305

Ion Ratio Lower Upper

168 100

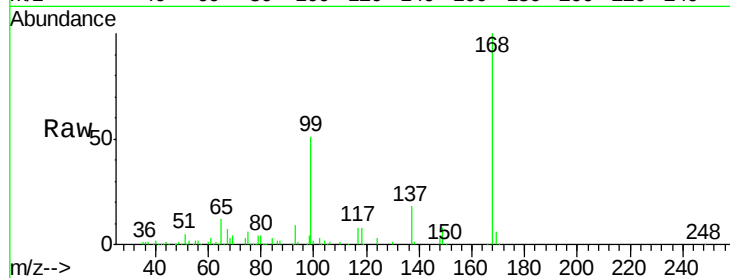
99 50.9 40.8 61.2

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

100000

80000

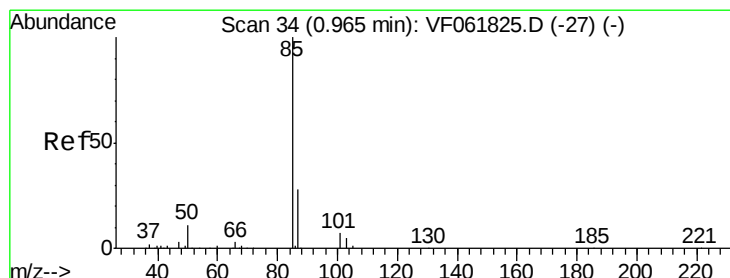
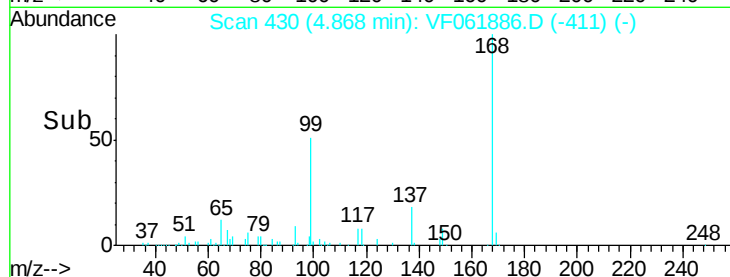
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 25.415 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061886.D

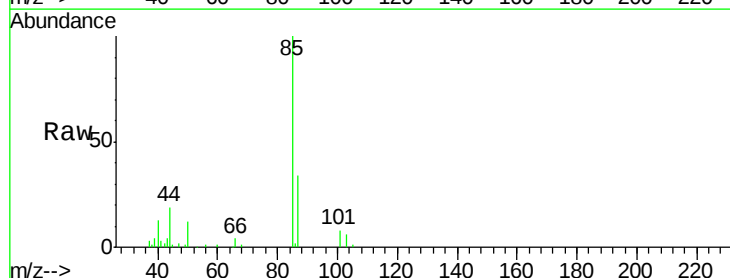
Acq: 11 Mar 2019 13:36

Tgt Ion: 85 Resp: 89333

Ion Ratio Lower Upper

85 100

87 33.5 14.1 42.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

25000

20000

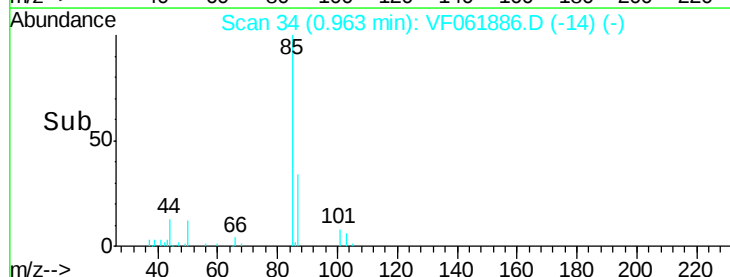
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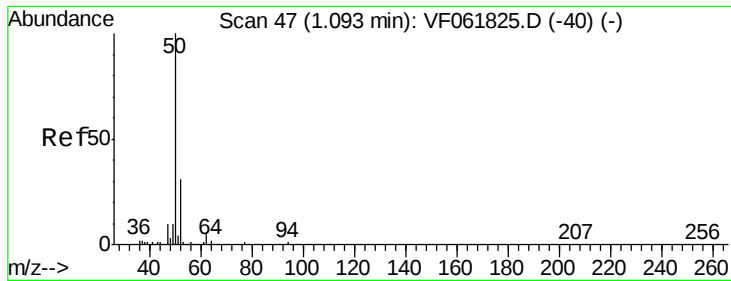
10000

5000

0

Time-->





#3

Chloromethane

Concen: 23.537 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBSD01

Tot Ion: 50 Resp: 80180

Ion Ratio Lower Upper

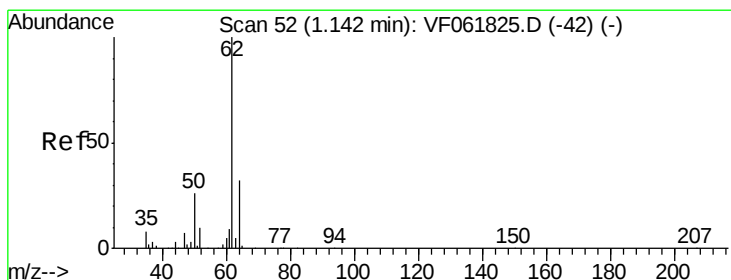
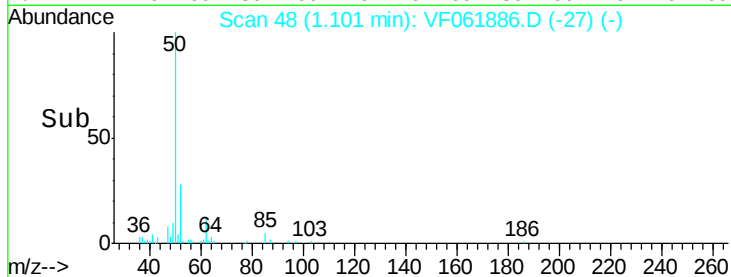
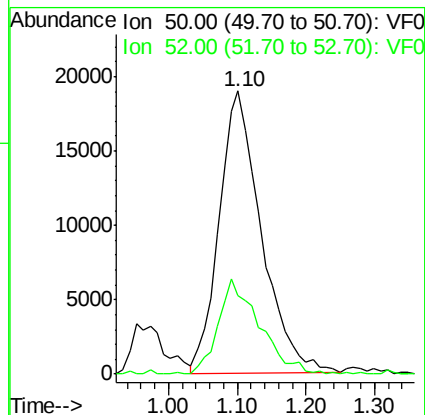
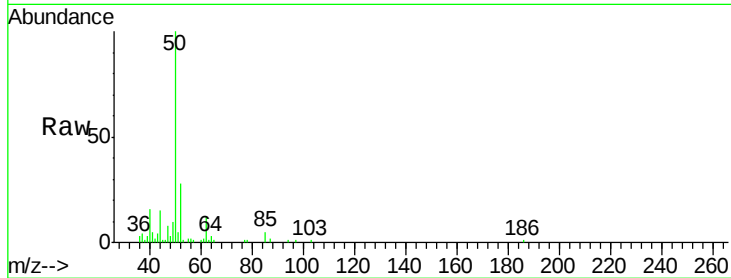
50 100

52 27.7 23.8 35.8

Manual Integrations
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#4

Vinyl Chloride

Concen: 24.744 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061886.D

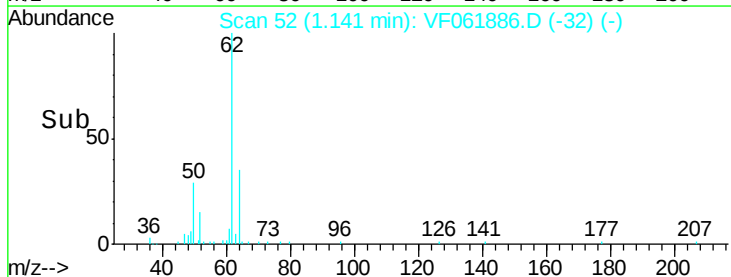
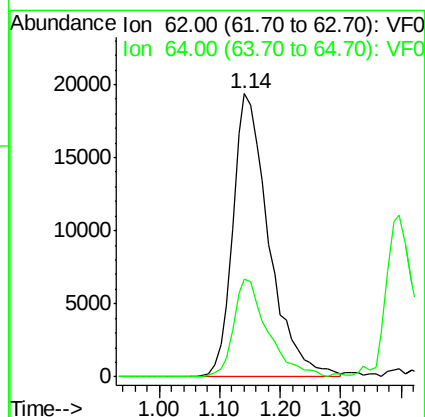
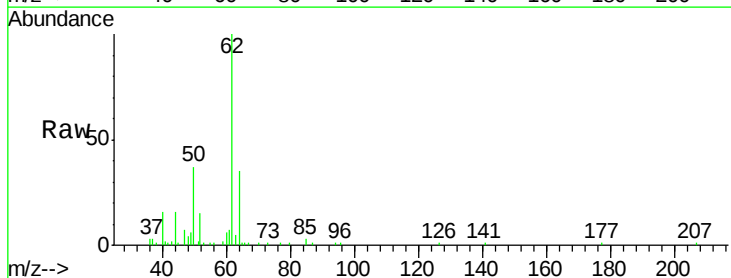
Acq: 11 Mar 2019 13:36

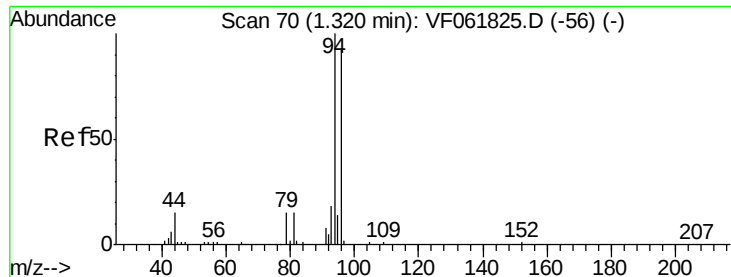
Tgt Ion: 62 Resp: 80016

Ion Ratio Lower Upper

62 100

64 34.7 25.2 37.8





#5

Bromomethane

Concen: 23.298 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampled :

VF0311SBSD01

Tot Ion: 94 Resp: 51345

Ion Ratio Lower Upper

94 100

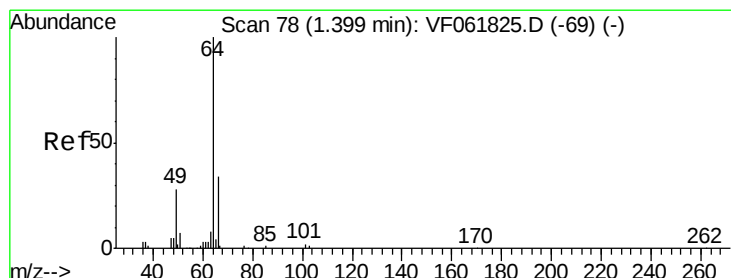
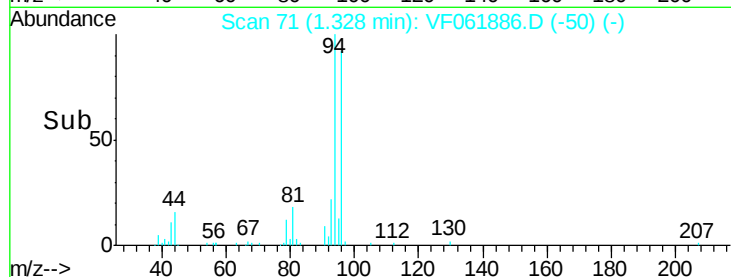
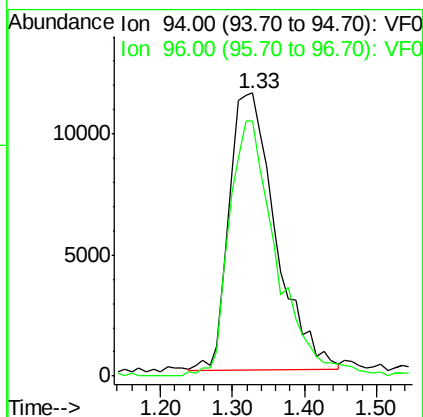
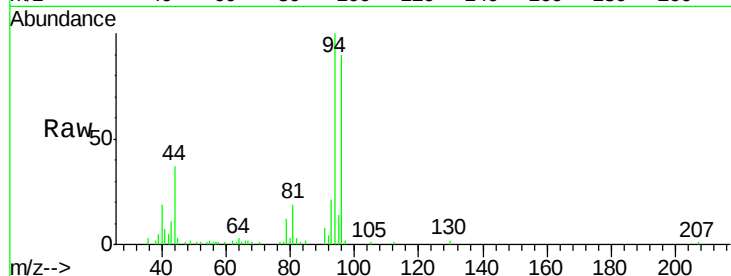
96 90.3 75.2 112.8

Manual Integrations

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#6

Chloroethane

Concen: 23.952 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.00 min

Lab File: VF061886.D

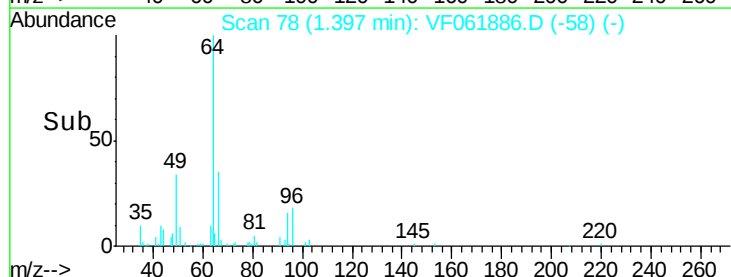
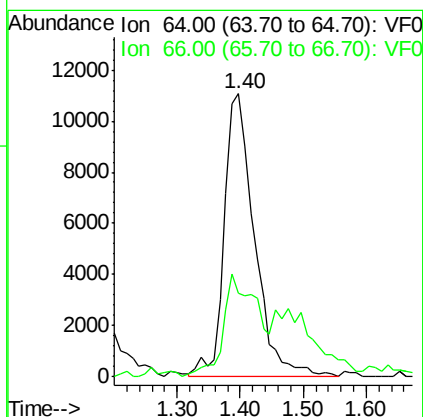
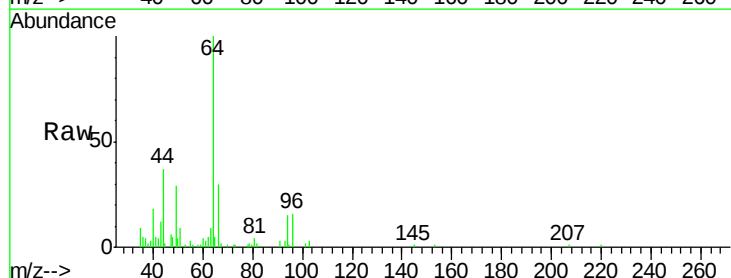
Acq: 11 Mar 2019 13:36

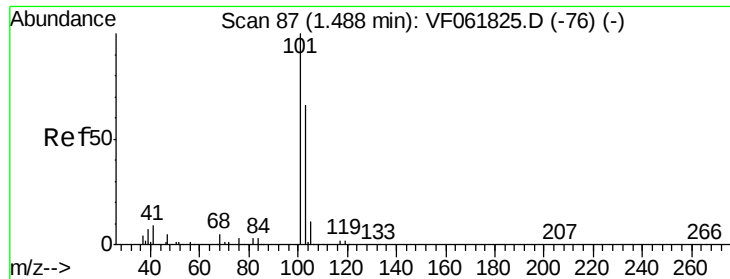
Tgt Ion: 64 Resp: 36819

Ion Ratio Lower Upper

64 100

66 29.7 27.0 40.4





#7

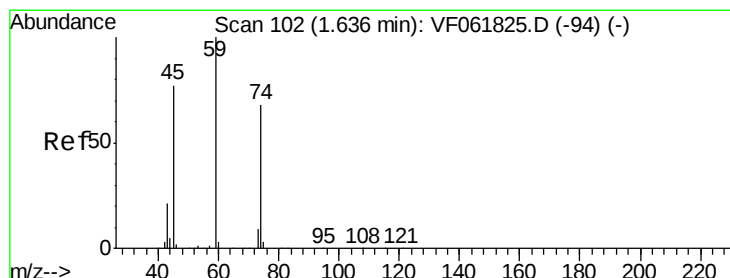
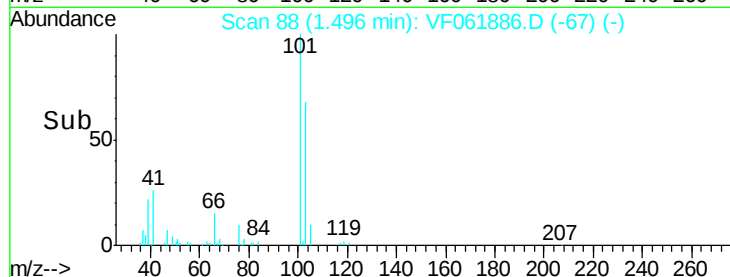
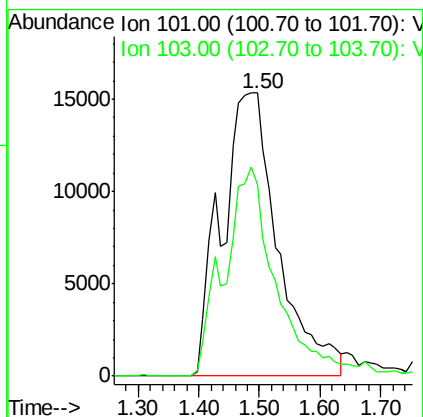
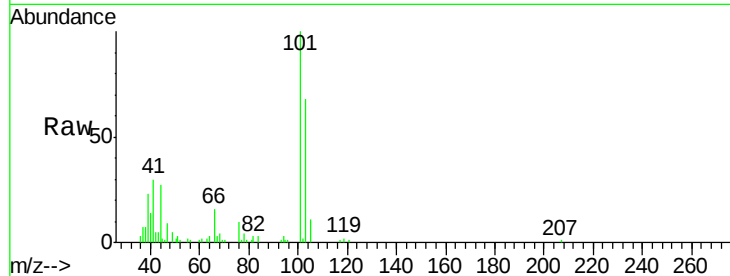
Trichlorofluoromethane
Concen: 25.133 ug/l m
RT: 1.50 min Scan# 88
Delta R.T. 0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
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ClientSampleId :
VF0311SBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		99262		
103	67.5	52.8	79.2		

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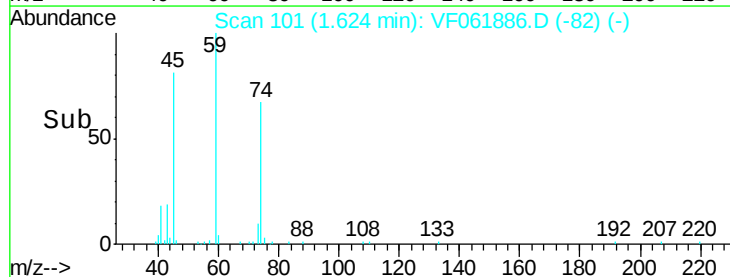
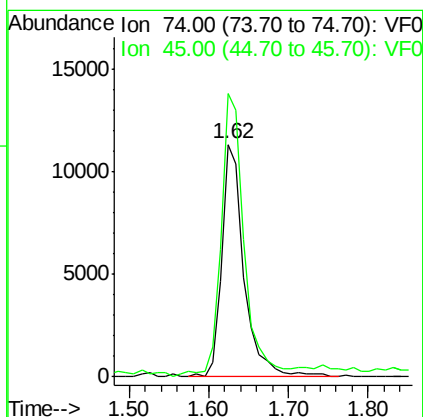
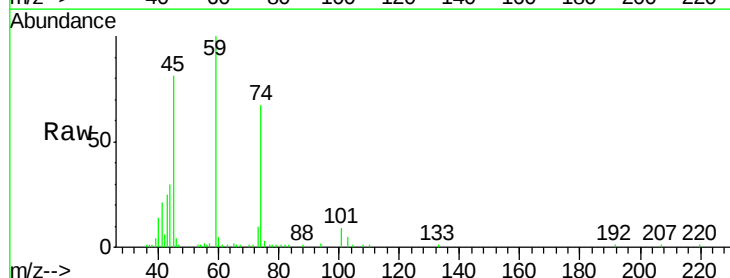
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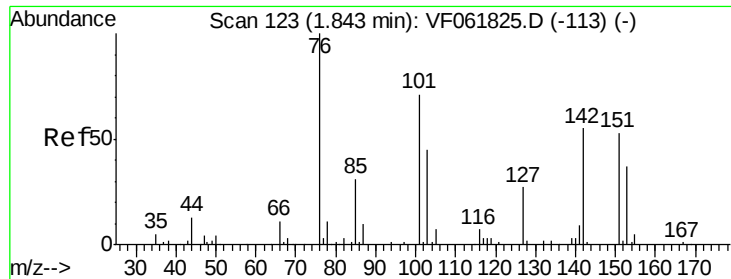


#8

Diethyl Ether
Concen: 24.827 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		22298		
45	121.6	57.2	171.6		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 24.326 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.00 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

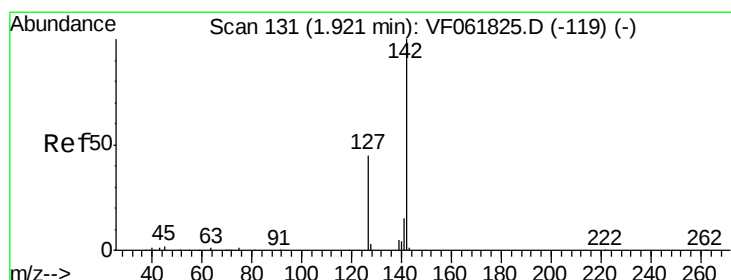
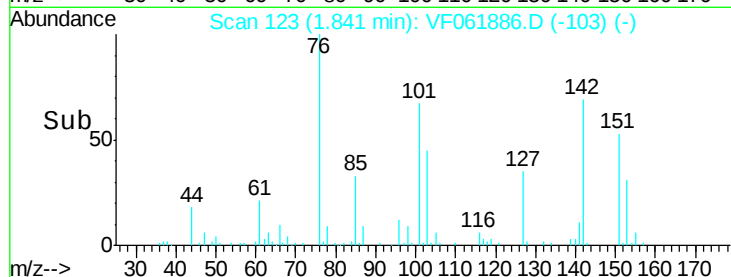
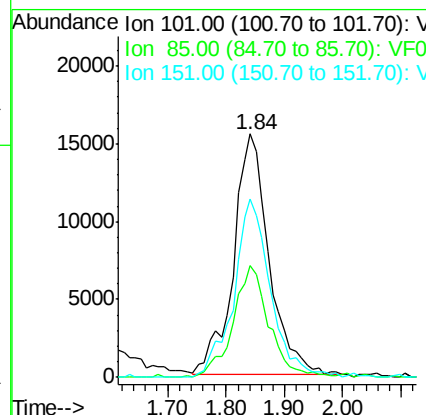
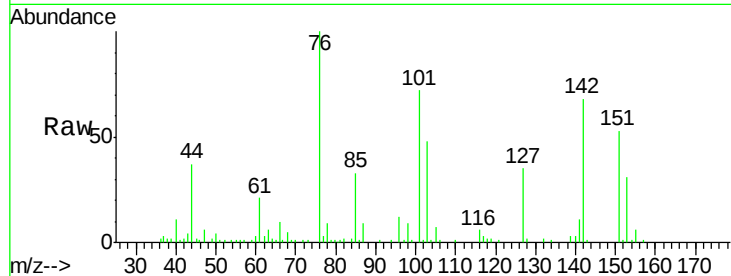
ClientSampleId :

VF0311SBSD01

Tot Ion:	101	Resp:	65243
Ion Ratio	Lower	Upper	
101	100		
85	45.7	34.0	51.0
151	73.3	57.3	85.9

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#10

Methyl Iodide

Concen: 24.527 ug/l m

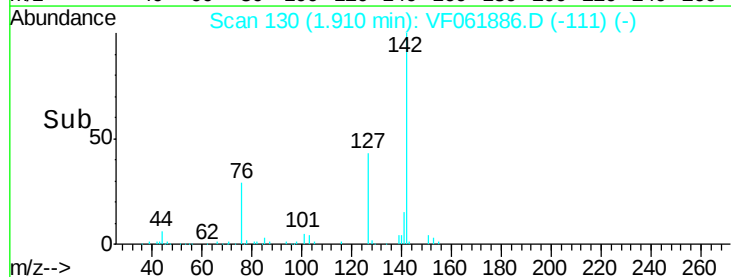
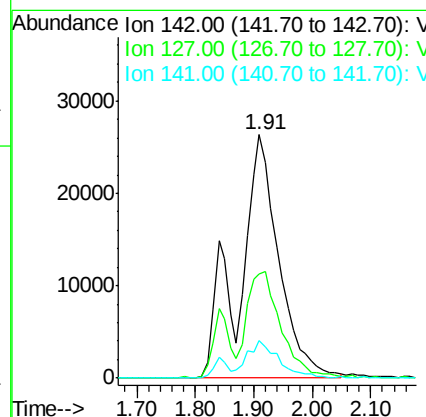
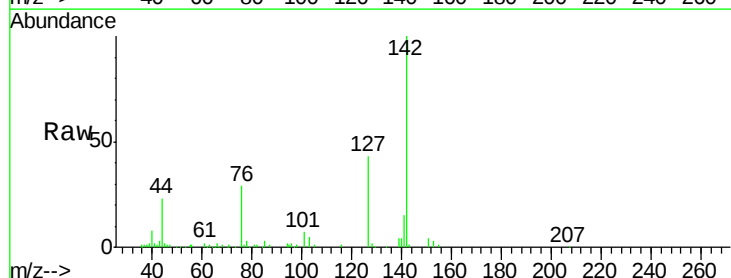
RT: 1.91 min Scan# 130

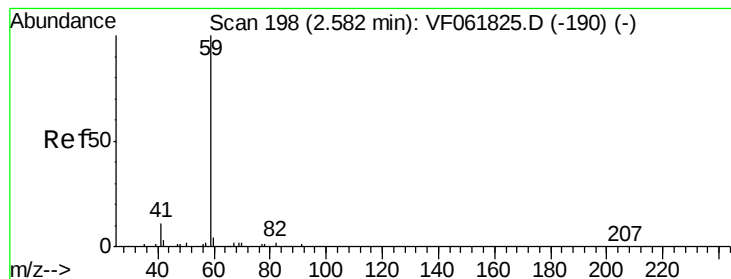
Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Tgt Ion:	142	Resp:	125187
Ion Ratio	Lower	Upper	
142	100		
127	43.0	35.8	53.6
141	15.5	11.7	17.5





#11

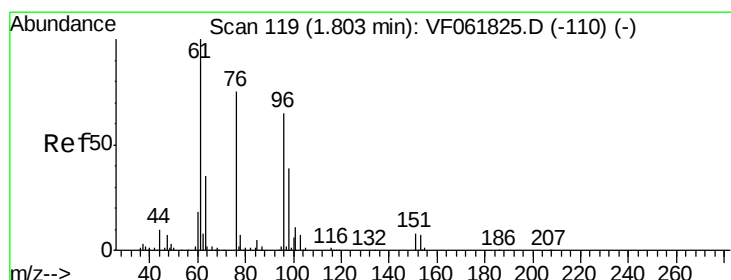
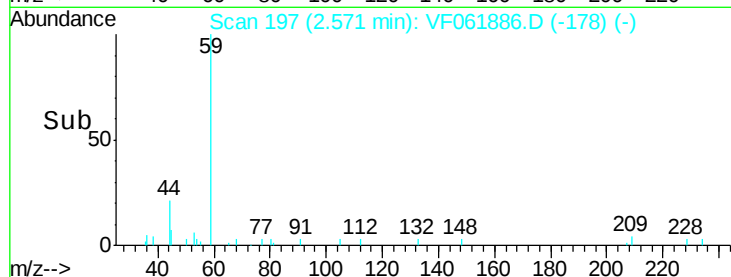
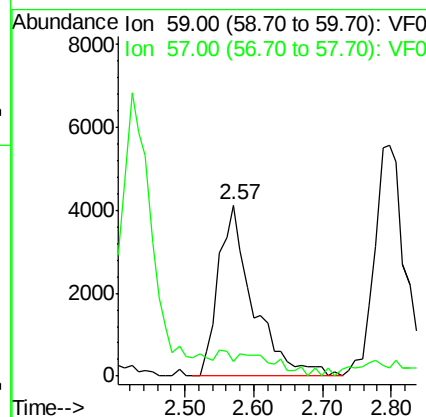
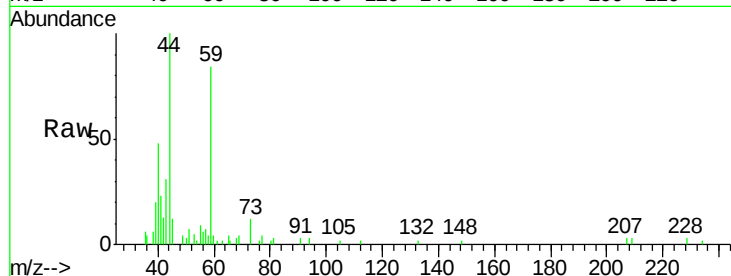
Tert butyl alcohol
Concen: 122.111 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion: 59 Resp: 14451
Ion Ratio Lower Upper
59 100
57 8.7 11.8 17.6#

Manual Integrations
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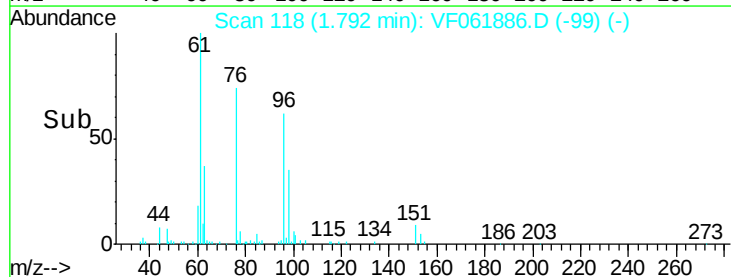
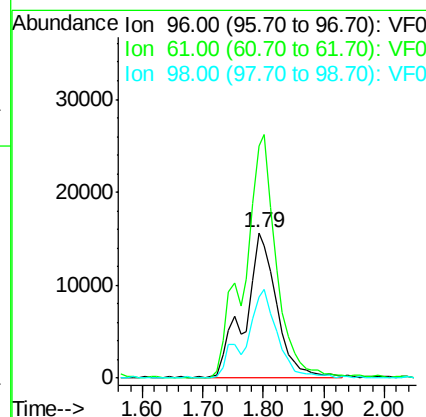
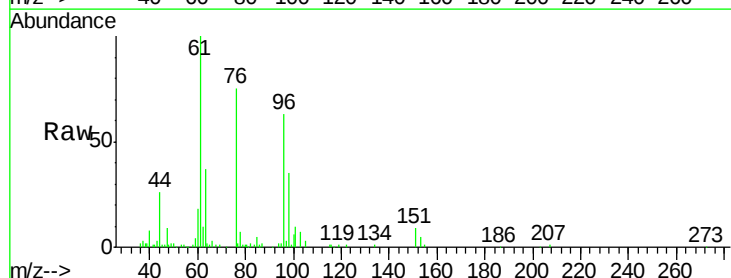
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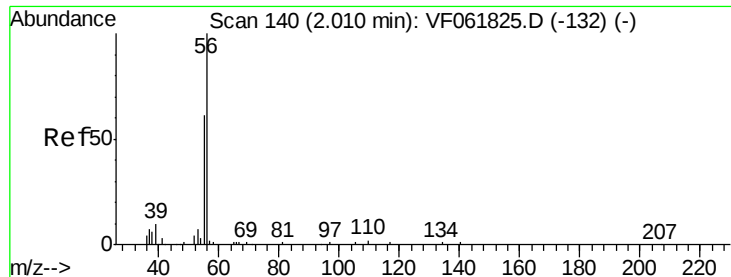


#12

1,1-Dichloroethene
Concen: 23.596 ug/l
RT: 1.79 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion: 96 Resp: 57777
Ion Ratio Lower Upper
96 100
61 159.3 122.5 183.7
98 55.5 47.1 70.7





#13

Acrolein

Concen: 98.697 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBSD01

Tot Ion: 56 Resp: 14800

Ion Ratio Lower Upper

56 100

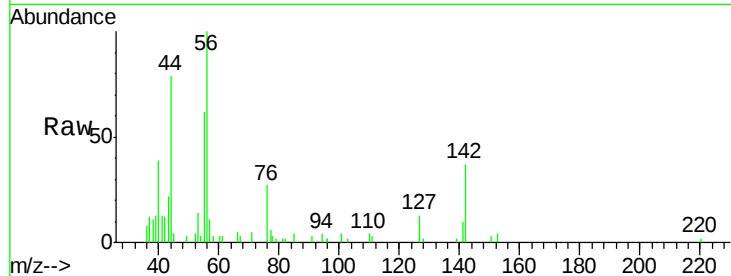
55 61.7 51.3 76.9

Manual Integrations

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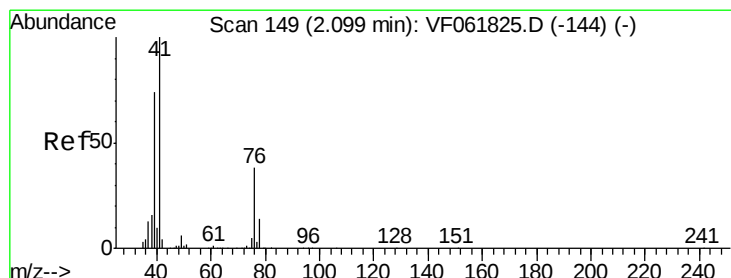
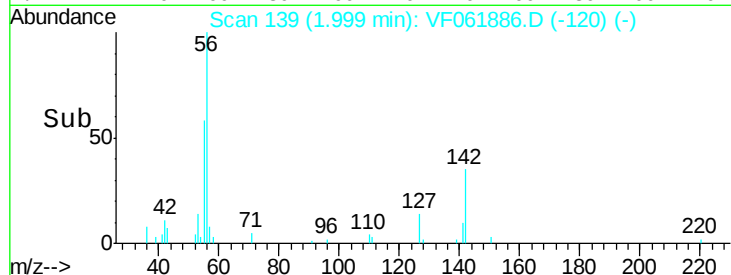
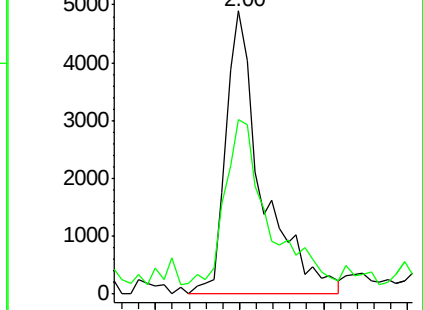
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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 27.314 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

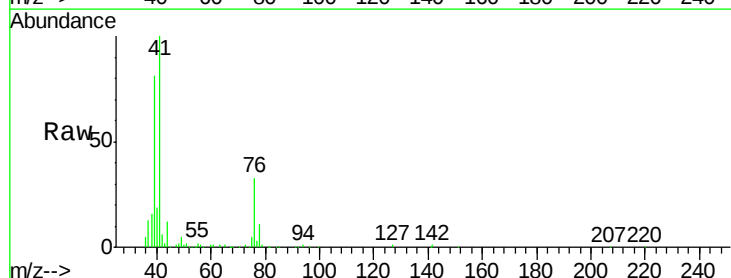
Tgt Ion: 41 Resp: 73682

Ion Ratio Lower Upper

41 100

39 81.2 59.6 89.4

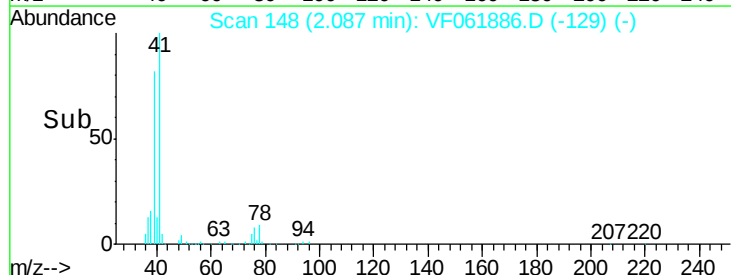
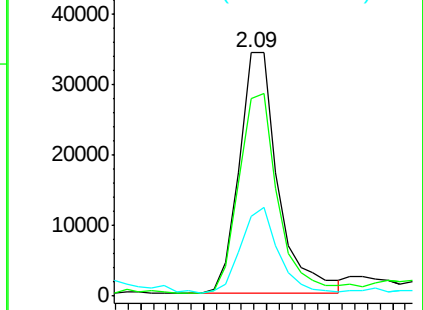
76 32.7 32.3 48.5

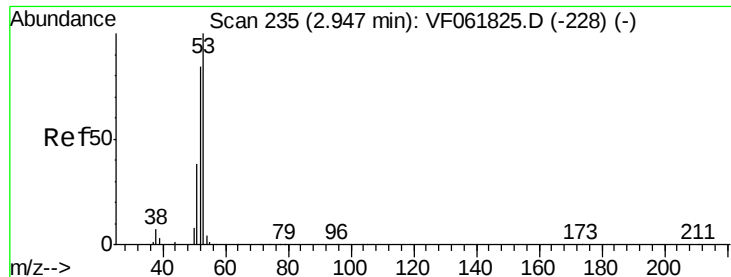


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 117.587 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

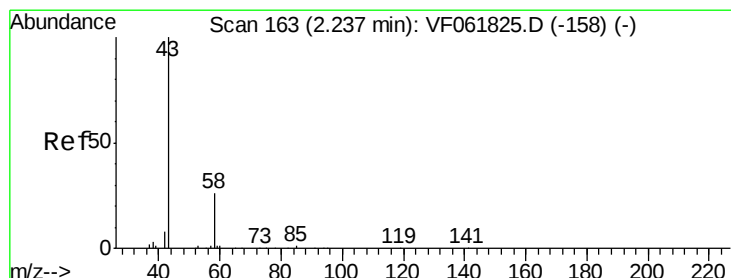
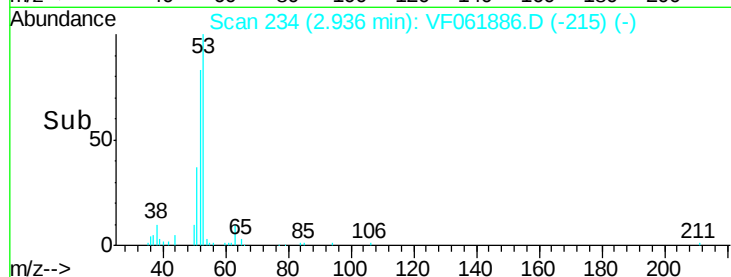
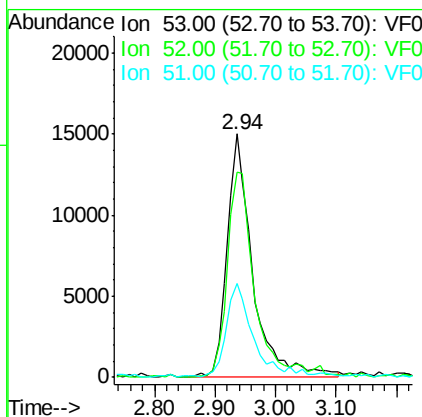
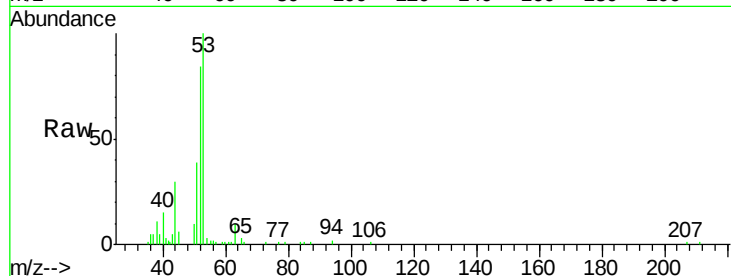
ClientSampleId :

VF0311SBS01

Tot Ion:	53	Resp:	44311
Ion Ratio	Lower	Upper	
53	100		
52	84.2	67.4	101.0
51	38.5	30.7	46.1

Manual Integrations
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#16

Acetone

Concen: 134.405 ug/l

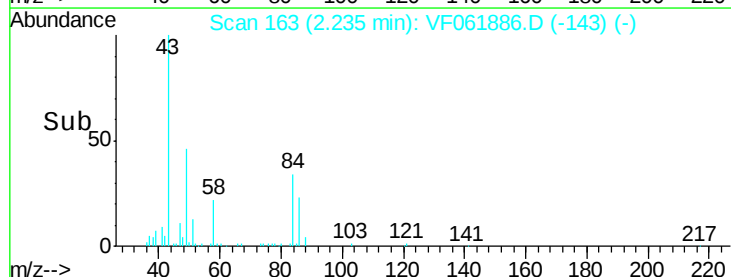
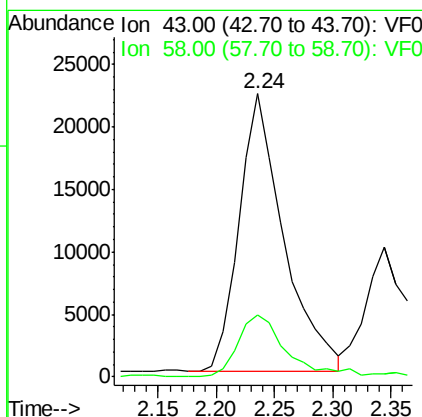
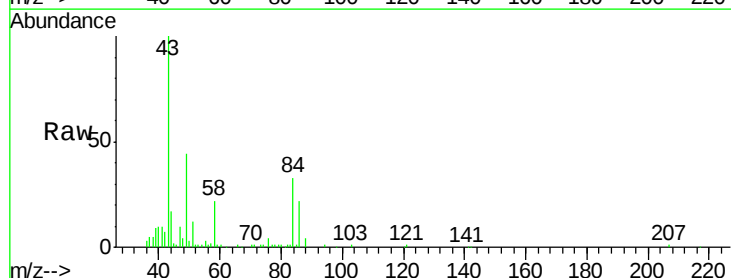
RT: 2.24 min Scan# 163

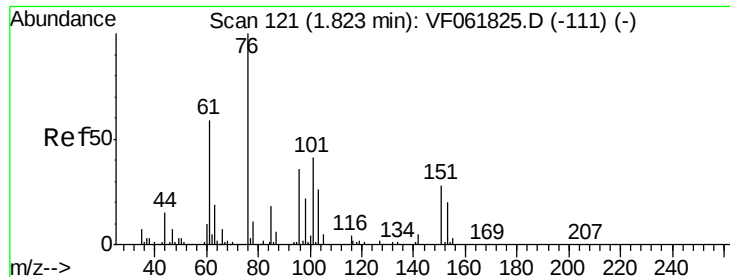
Delta R.T. -0.00 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Tgt Ion:	43	Resp:	58701
Ion Ratio	Lower	Upper	
43	100		
58	22.1	20.3	30.5





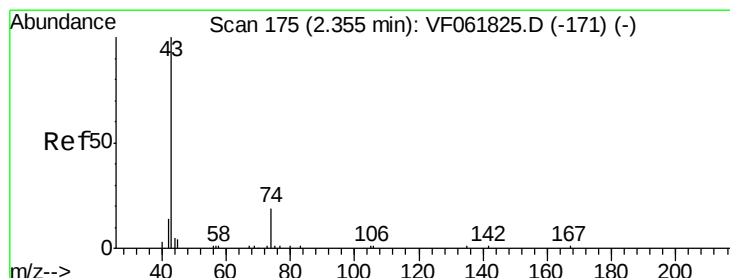
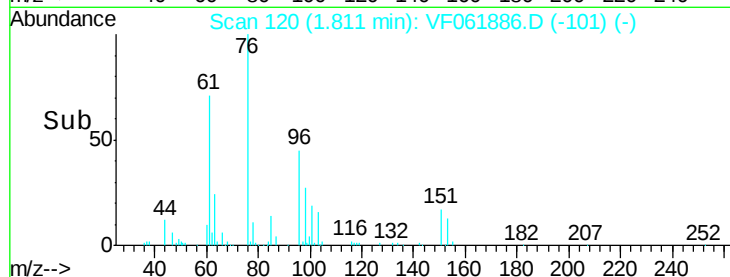
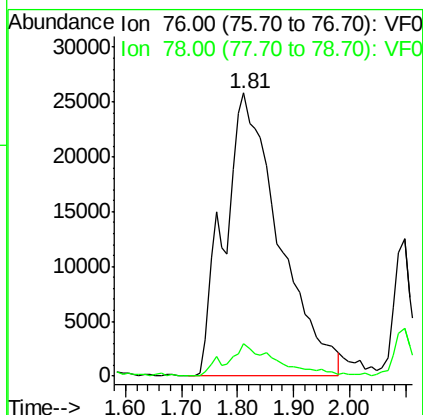
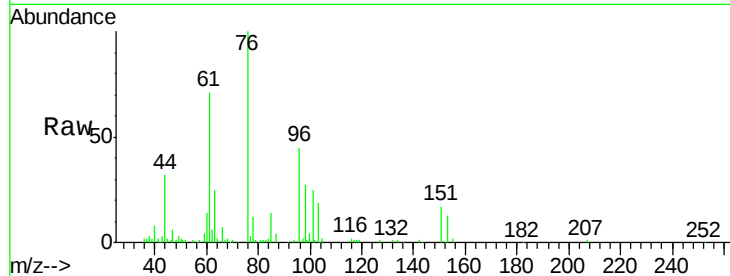
#17
Carbon Disulfide
Concen: 23.178 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBSD01

Tot Ion: 76 Resp: 176664
Ion Ratio Lower Upper
76 100
78 11.6 9.1 13.7

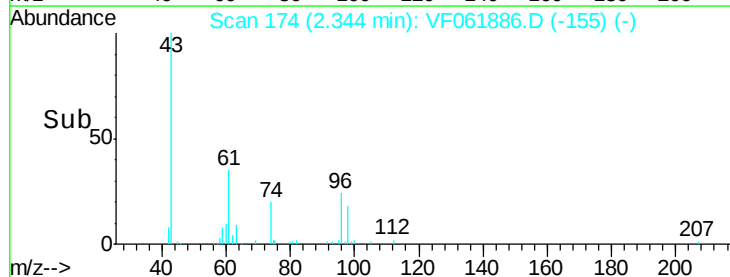
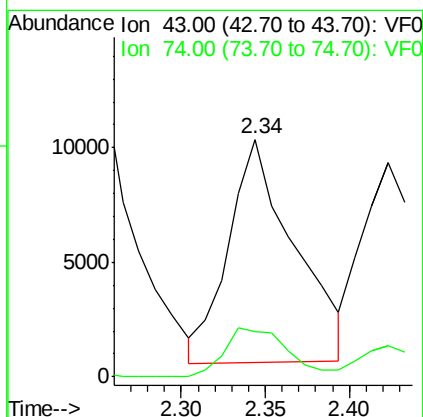
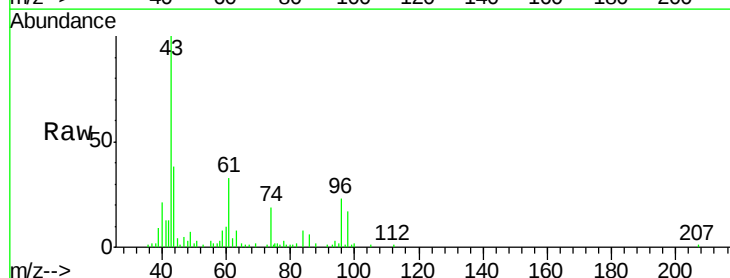
Manual Integrations
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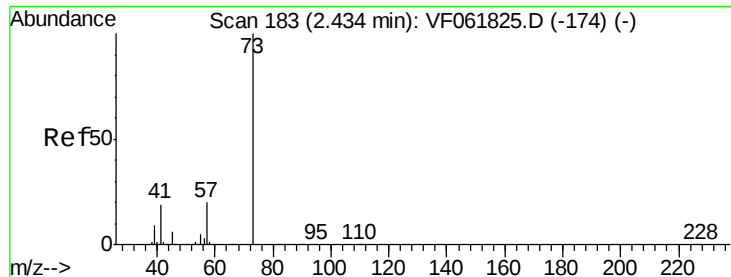
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#18
Methyl Acetate
Concen: 31.551 ug/l
RT: 2.34 min Scan# 174
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion: 43 Resp: 26450
Ion Ratio Lower Upper
43 100
74 19.2 13.2 19.8





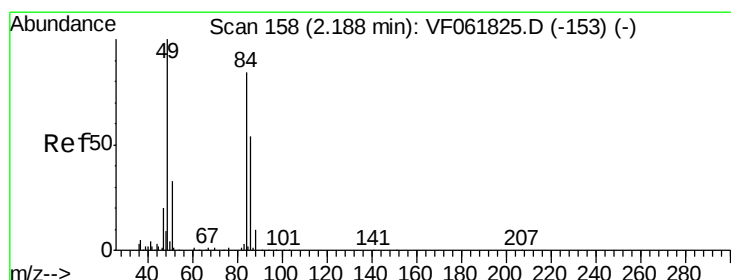
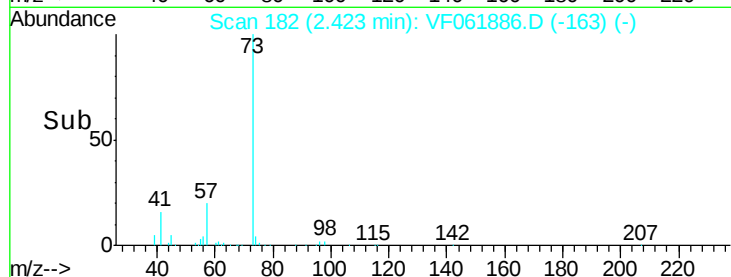
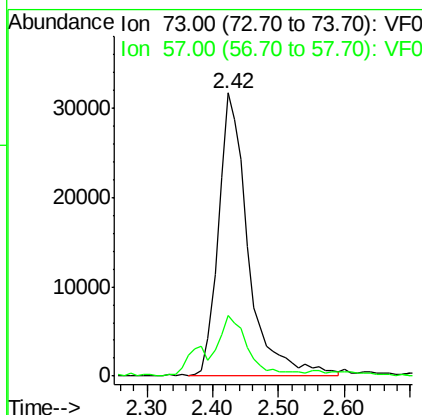
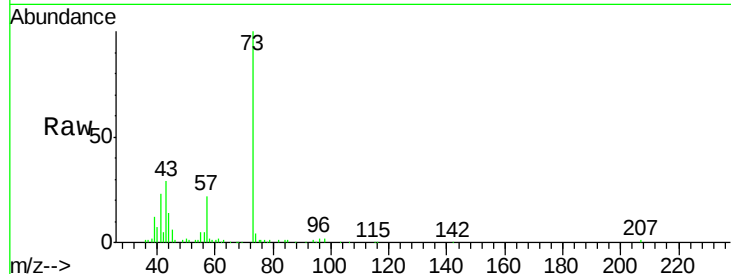
#19
Methyl tert-butyl Ether
Concen: 24.131 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.1	24.1

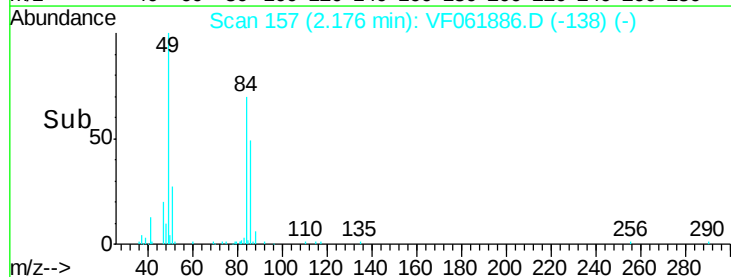
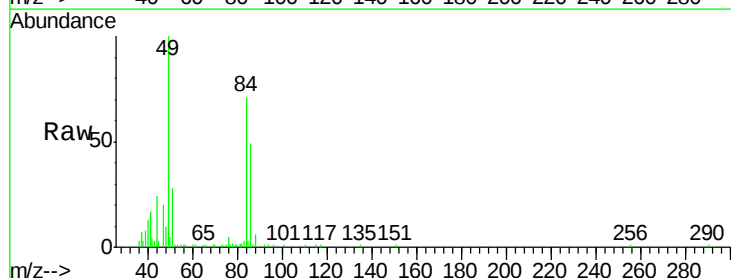
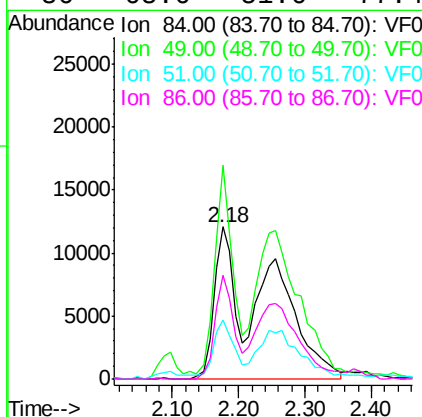
Manual Integrations
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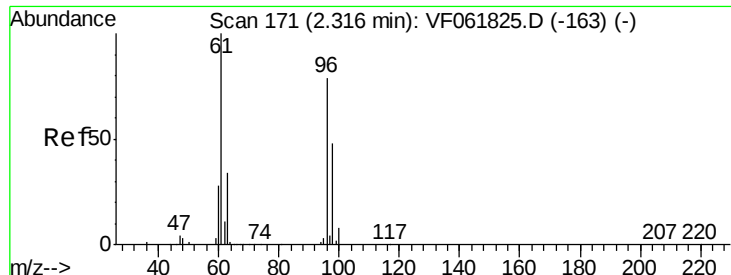
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#20
Methylene Chloride
Concen: 24.321 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
84	100		
49	140.5	96.8	145.2
51	38.8	31.8	47.6
86	68.6	51.6	77.4





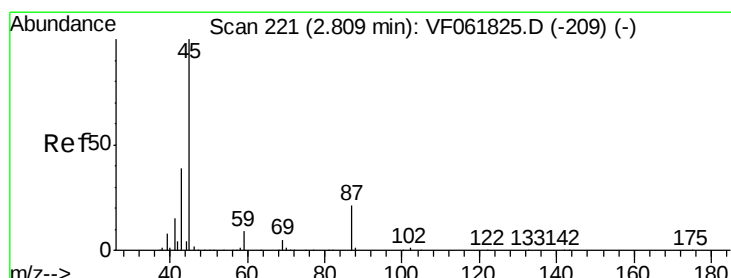
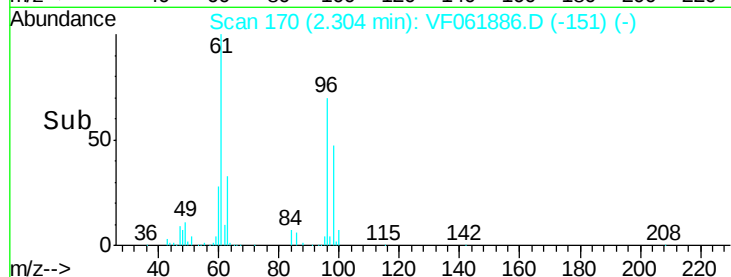
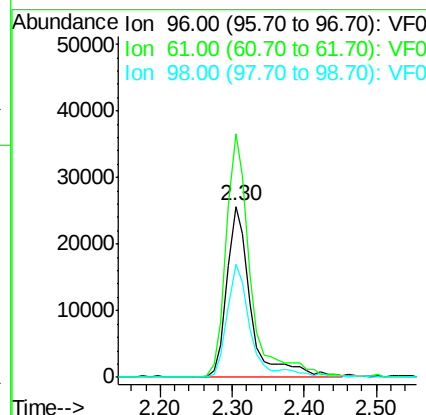
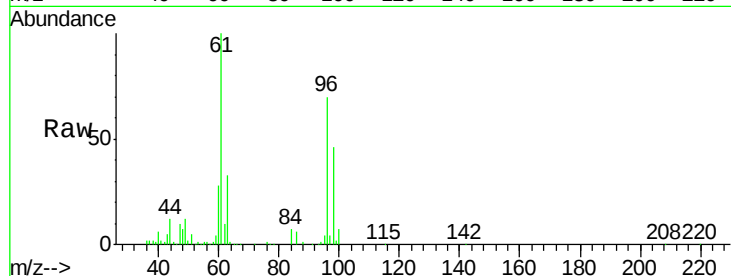
#21
trans-1,2-Dichloroethene
Concen: 25.646 ug/l
RT: 2.30 min Scan# 170
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	142.4	101.0	151.6
98	66.1	48.8	73.2

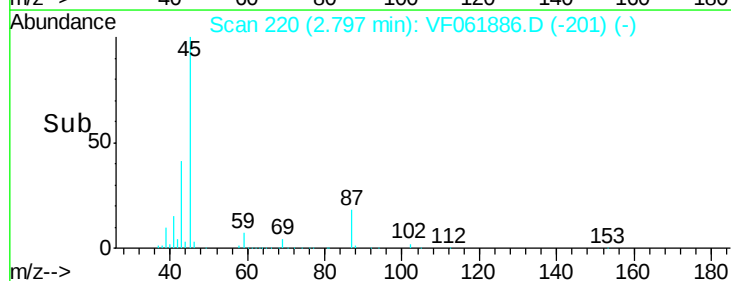
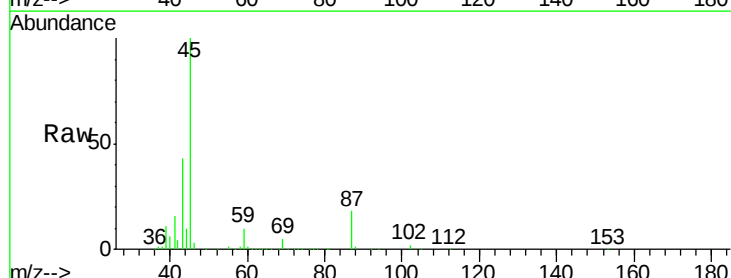
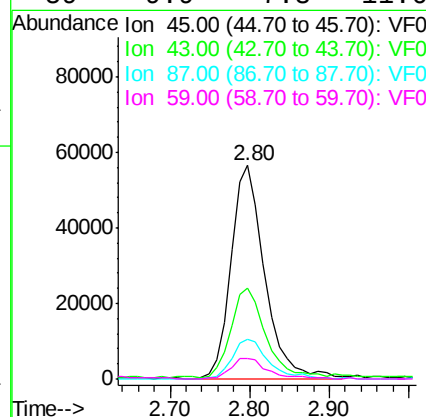
Manual Integrations
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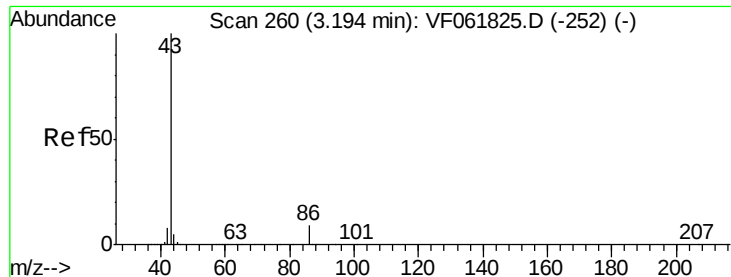
MMDadoda
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#22
Diisopropyl ether
Concen: 23.757 ug/l
RT: 2.80 min Scan# 220
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
45	100		
43	42.8	31.8	47.8
87	18.4	17.1	25.7
59	9.9	7.8	11.6





#23

Vinyl Acetate

Concen: 117.915 ug/l

RT: 3.18 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBSD01

Tot Ion: 43 Resp: 369632

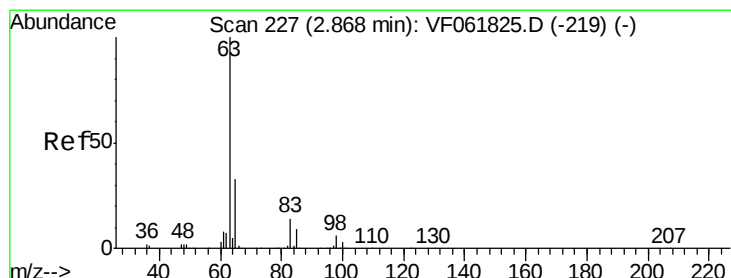
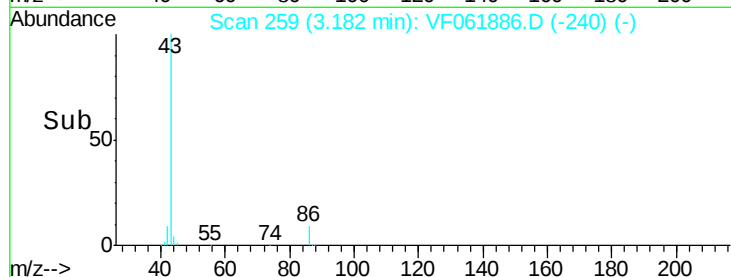
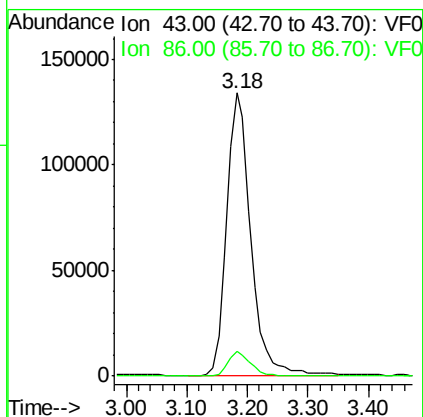
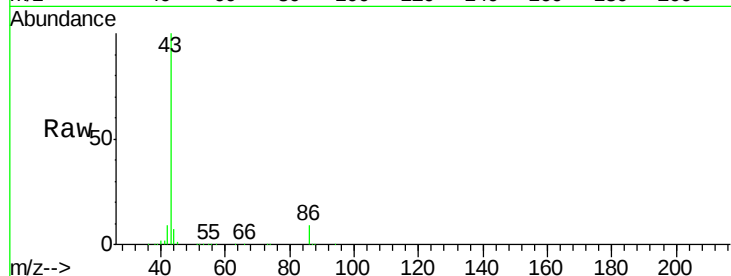
Ion Ratio Lower Upper

43 100

86 8.8 7.0 10.4

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 25.097 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.00 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

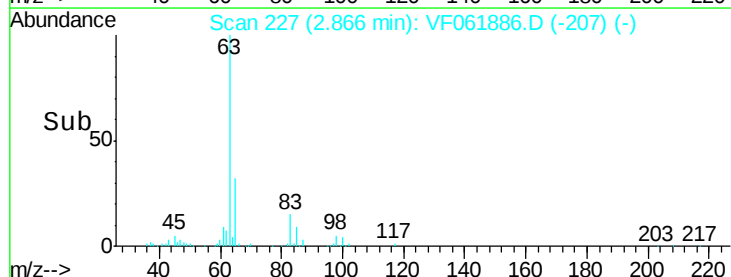
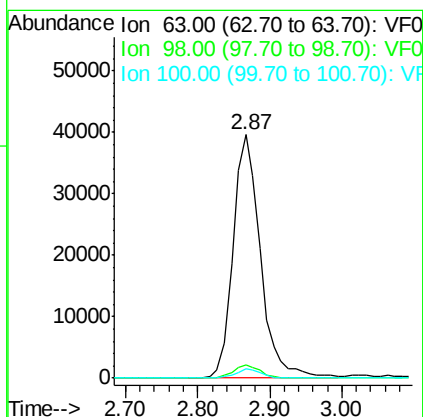
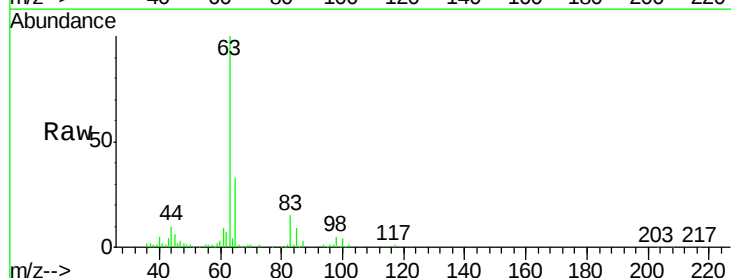
Tgt Ion: 63 Resp: 105260

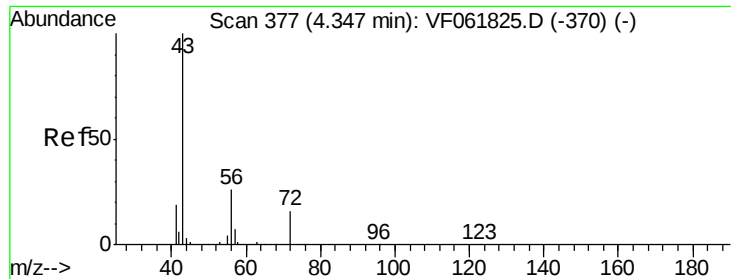
Ion Ratio Lower Upper

63 100

98 5.4 2.9 8.6

100 3.7 1.8 5.3





#25

2-Butanone

Concen: 116.944 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.02 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBS01

Tot Ion: 43 Resp: 103891

Ion Ratio Lower Upper

43 100

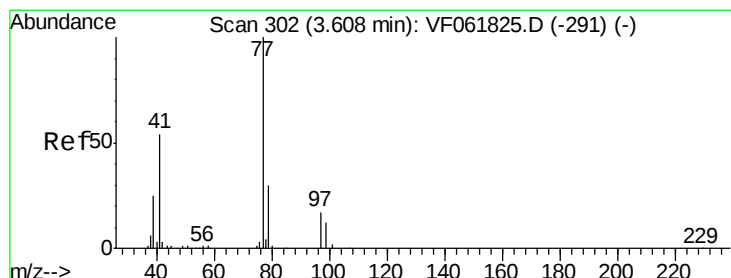
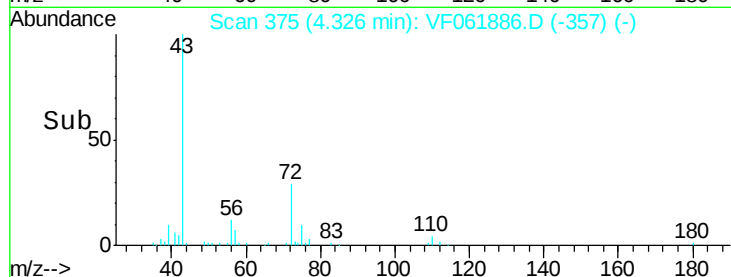
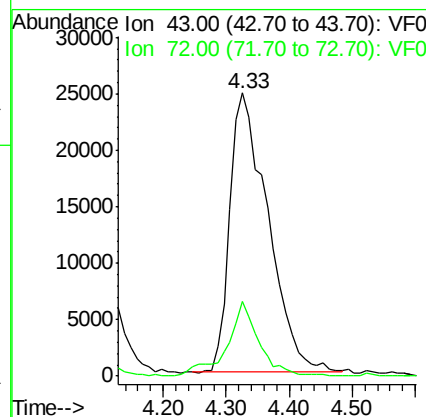
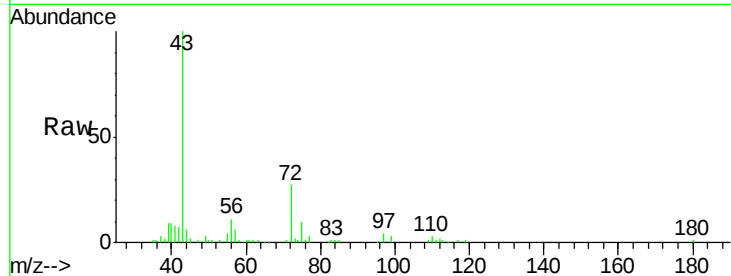
72 26.6 16.2 24.4#

Manual Integrations

APPROVED

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#26

2,2-Dichloropropane

Concen: 25.620 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061886.D

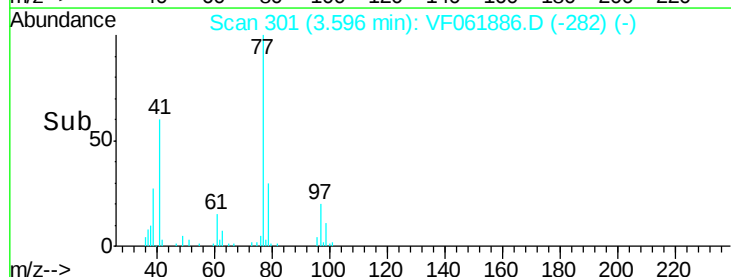
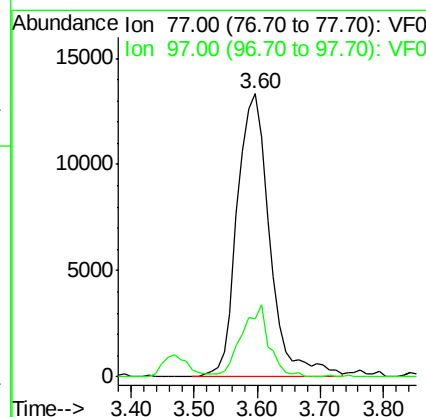
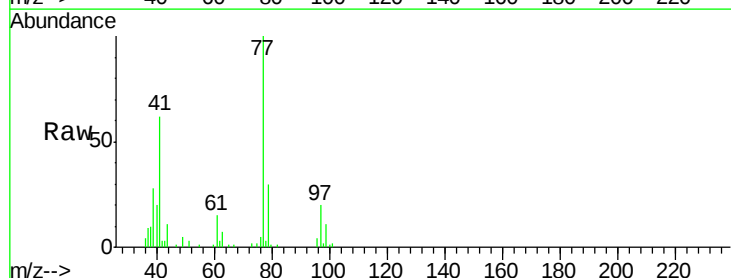
Acq: 11 Mar 2019 13:36

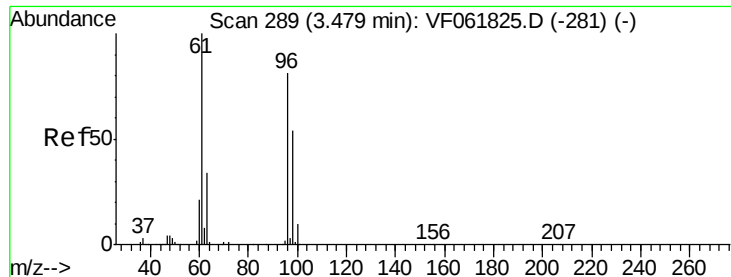
Tgt Ion: 77 Resp: 47969

Ion Ratio Lower Upper

77 100

97 20.4 10.4 31.4





#27

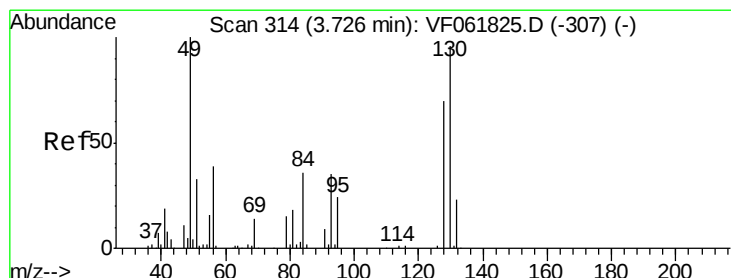
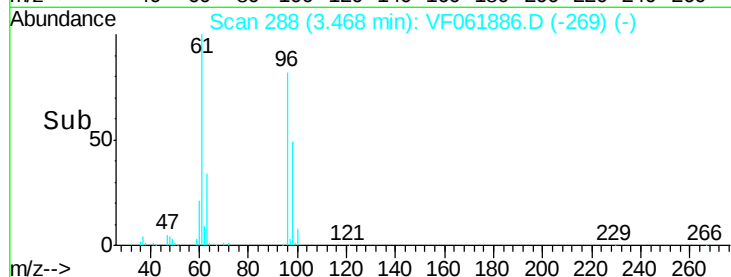
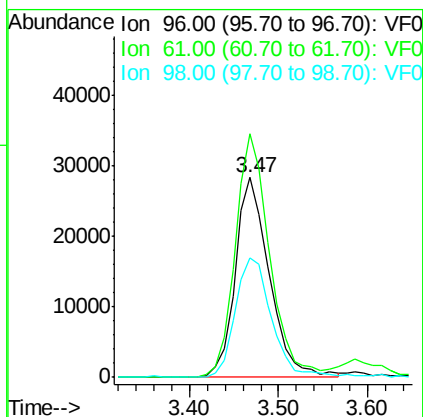
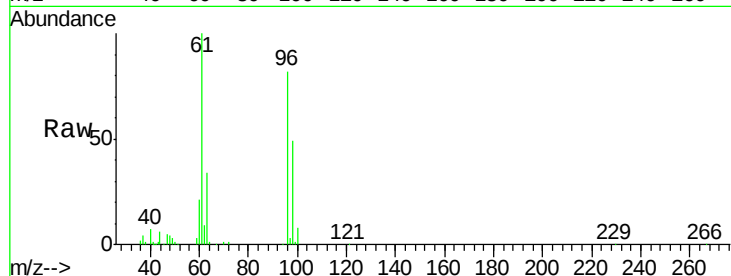
cis-1,2-Dichloroethene
Concen: 23.677 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	121.8	0.0	245.8
98	60.0	0.0	132.6

Manual Integrations
APPROVED

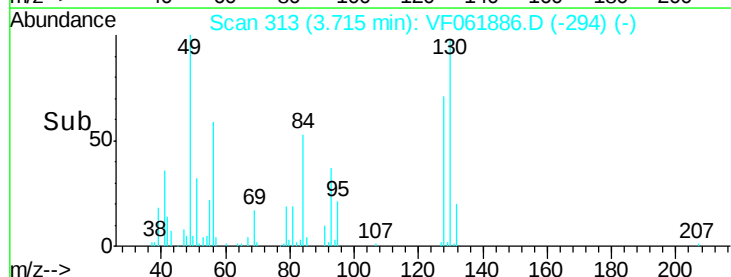
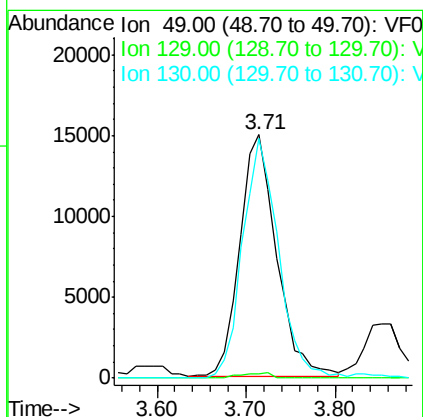
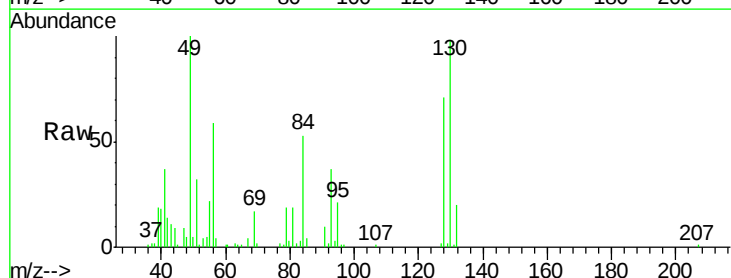
MMDadoda
3/12/2019 4:36:55 PM

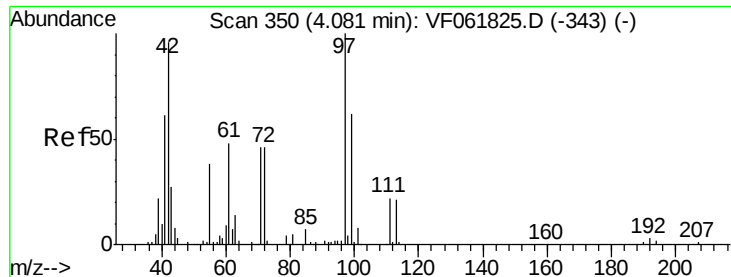


#28

Bromochloromethane
Concen: 23.294 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	0.0#
130	98.4	76.9	115.3





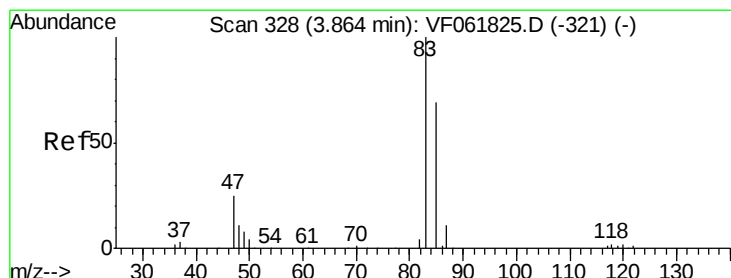
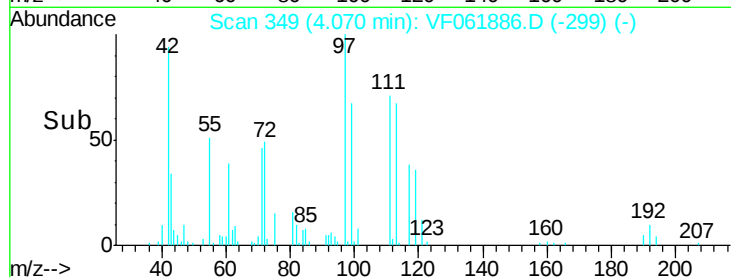
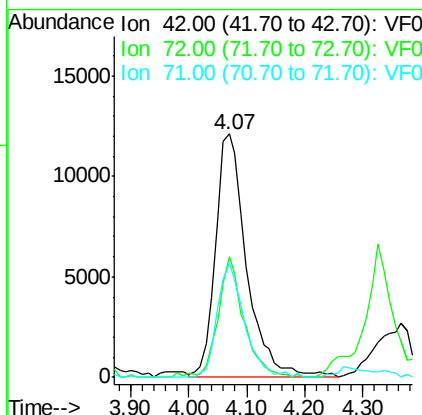
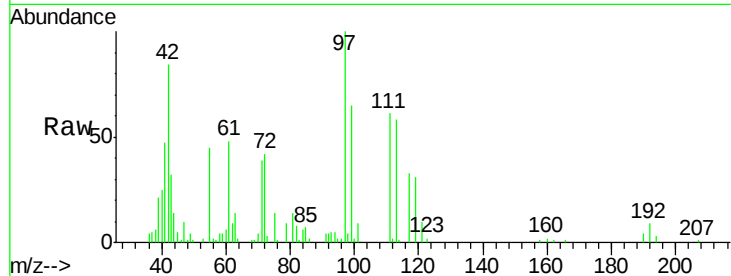
#29
Tetrahydrofuran
Concen: 117.471 ug/l
RT: 4.07 min Scan# 349
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	34.4	51.6
71	41.0	34.6	52.0

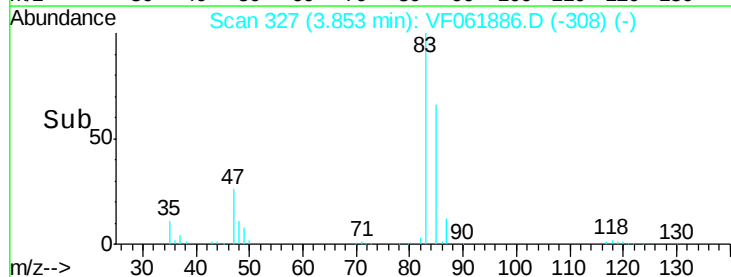
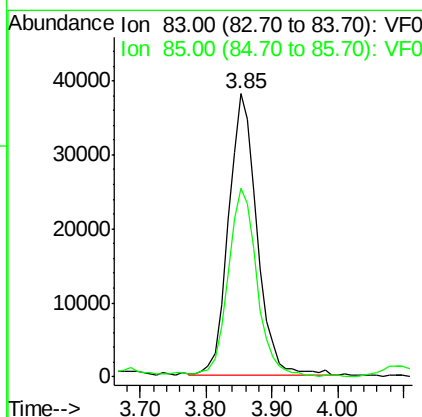
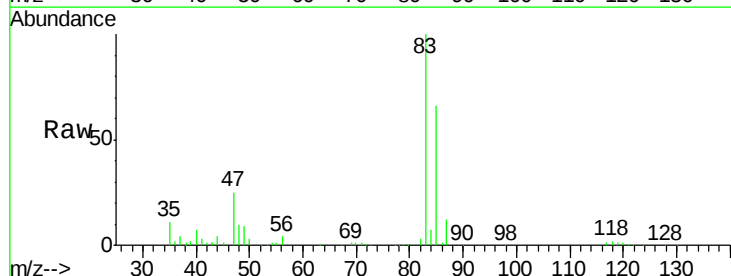
Manual Integrations
APPROVED

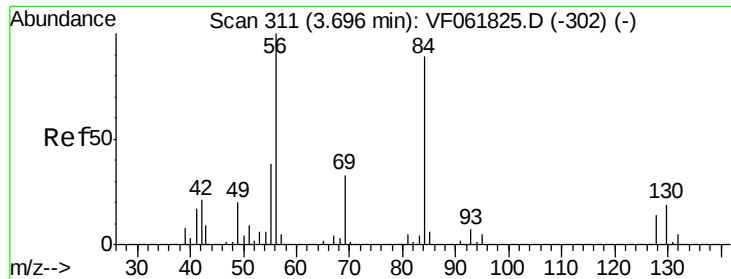
MMDadoda
3/12/2019 4:36:55 PM



#30
Chloroform
Concen: 23.818 ug/l
RT: 3.85 min Scan# 327
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.5	55.3	82.9





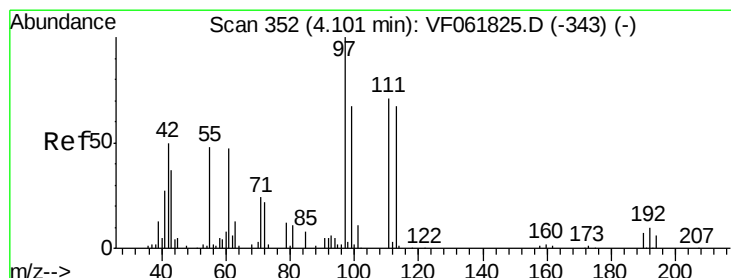
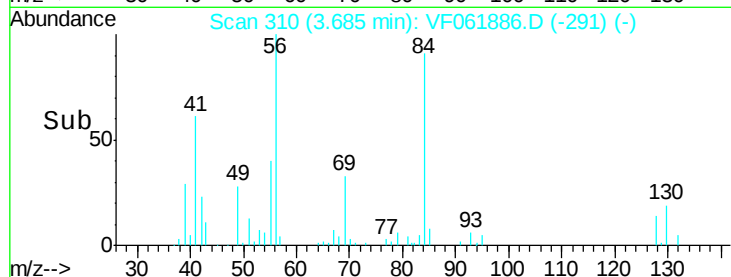
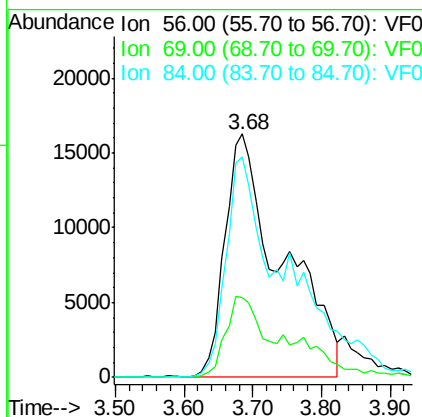
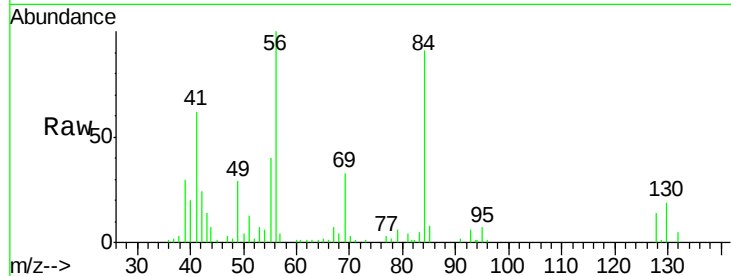
#31
Cyclohexane
Concen: 21.472 ug/l m
RT: 3.68 min Scan# 310
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.6	26.0	39.0
84	90.7	71.0	106.6

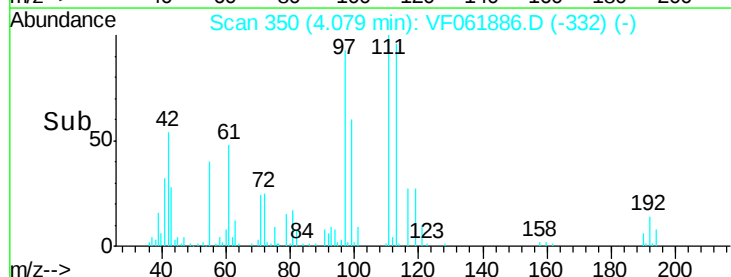
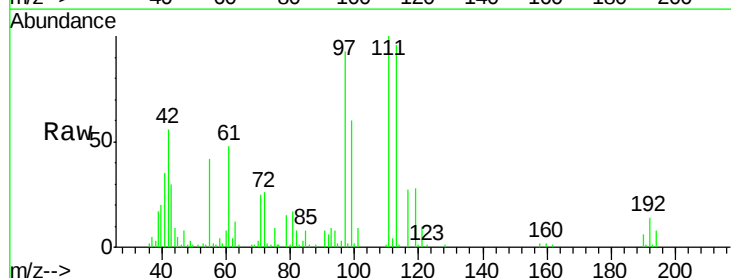
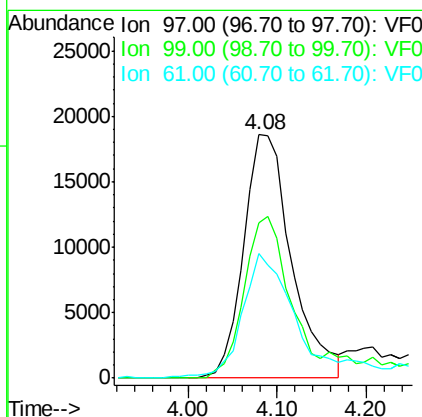
Manual Integrations
APPROVED

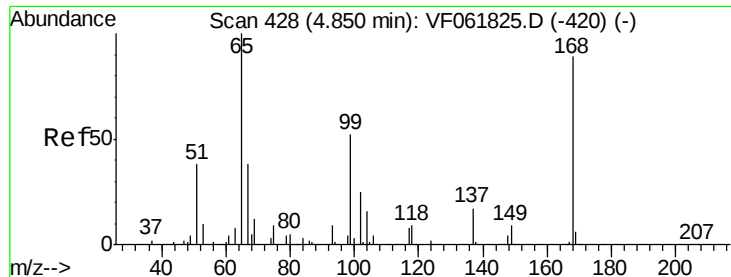
MMDadoda
3/12/2019 4:36:55 PM



#32
1,1,1-Trichloroethane
Concen: 23.504 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.02 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	53.8	80.8
61	51.1	37.9	56.9





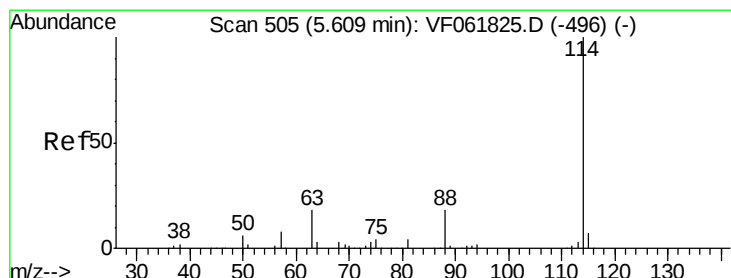
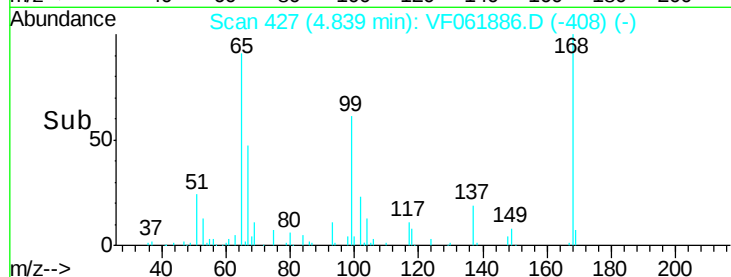
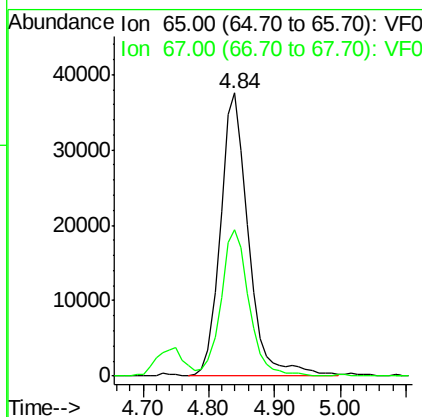
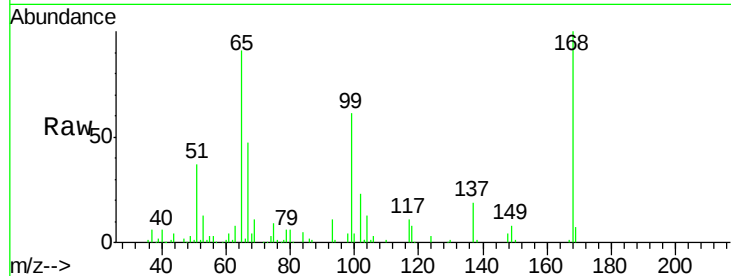
#33
 1,2-Dichloroethane-d4
 Concen: 53.504 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.01 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0311SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	111556		
67	51.7	0.0	108.6	

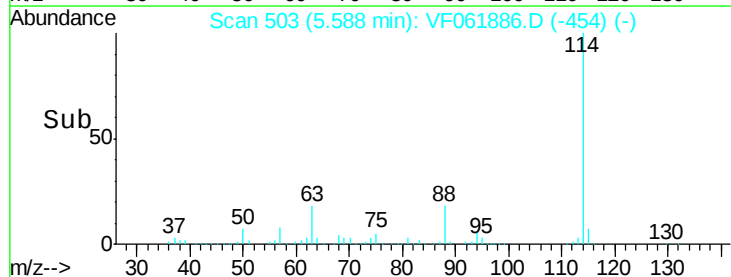
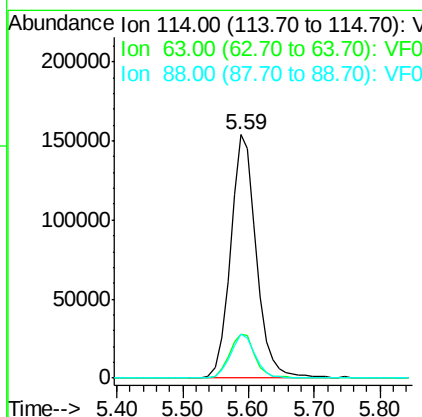
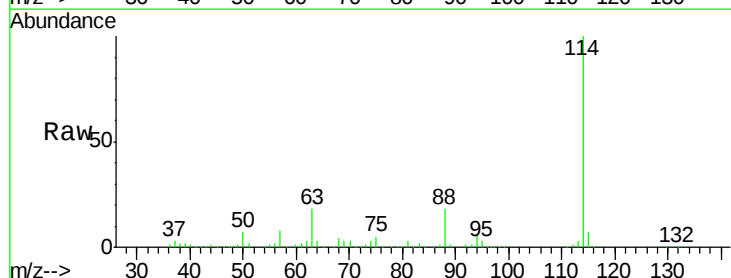
Manual Integrations
 APPROVED

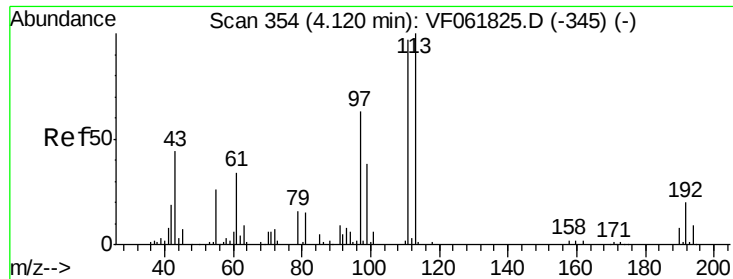
MMDadoda
 3/12/2019 4:36:55 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.02 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	419997		
63	18.1	0.0	35.6	
88	18.0	0.0	35.6	





#35

Dibromofluoromethane

Concen: 51.986 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

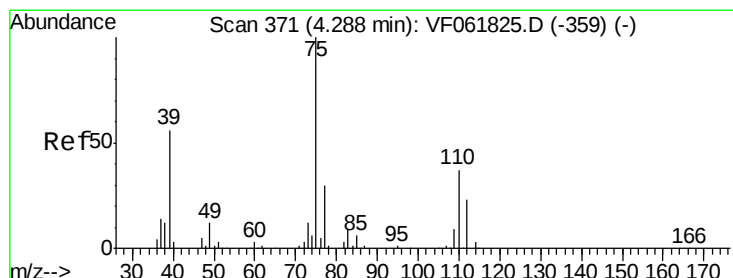
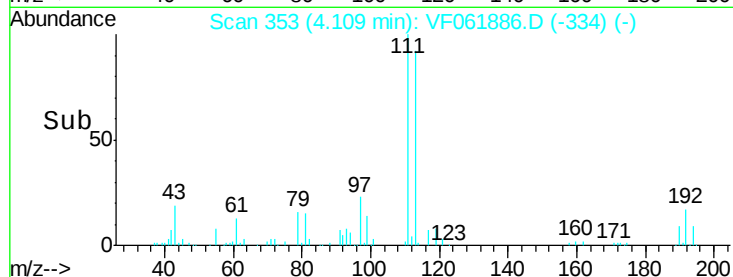
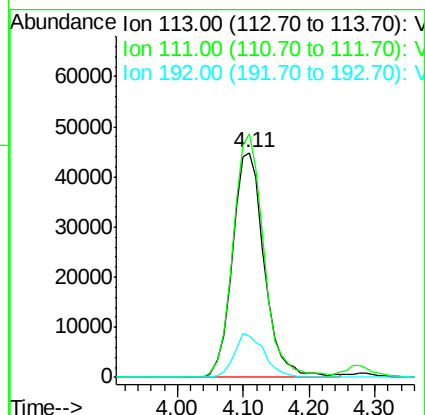
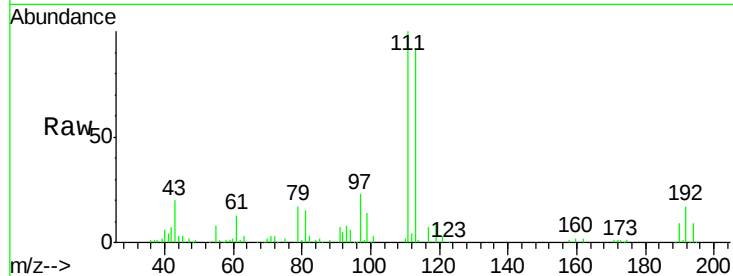
ClientSampleId :

VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
113	100		
111	108.3	77.6	116.4
192	18.5	15.9	23.9

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 23.797 ug/l

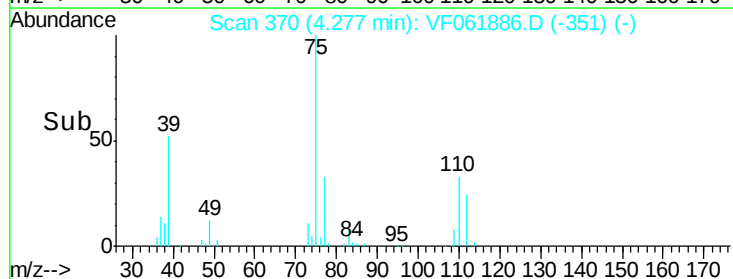
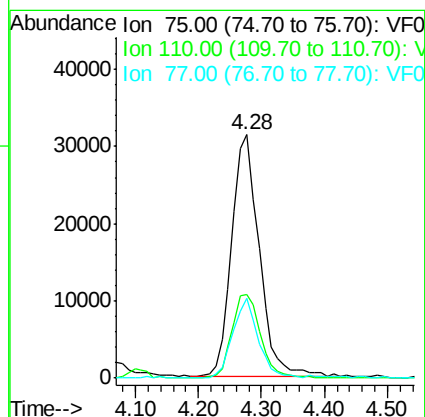
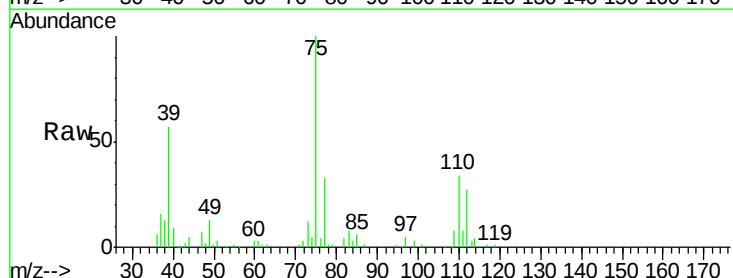
RT: 4.28 min Scan# 370

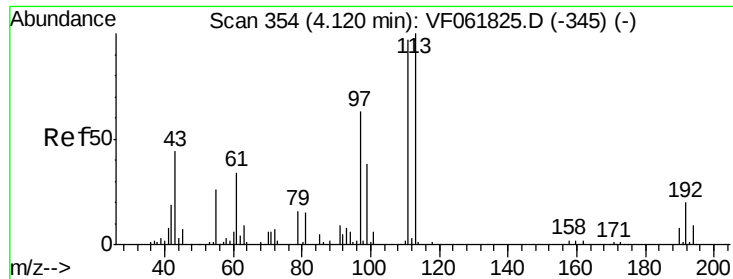
Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.4	18.6	55.6
77	32.5	24.2	36.2





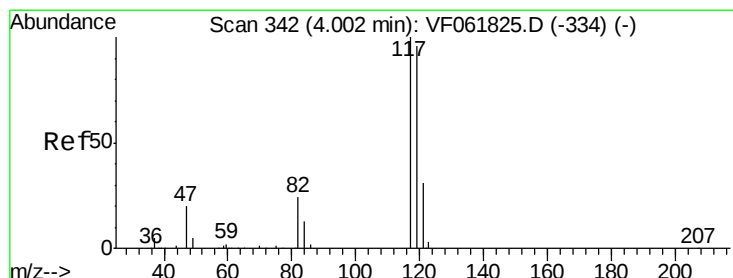
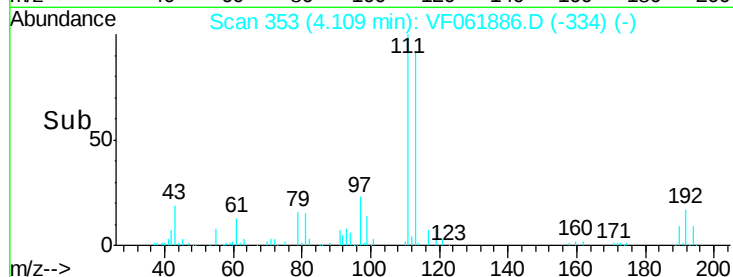
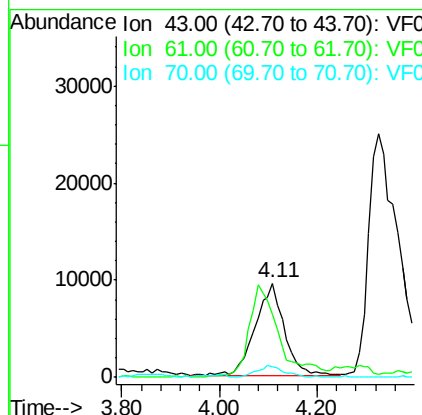
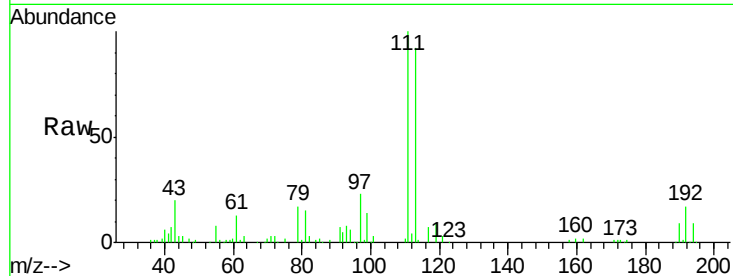
#37
Ethyl Acetate
Concen: 24.056 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	67.0	60.7	91.1
70	10.9	10.6	15.8

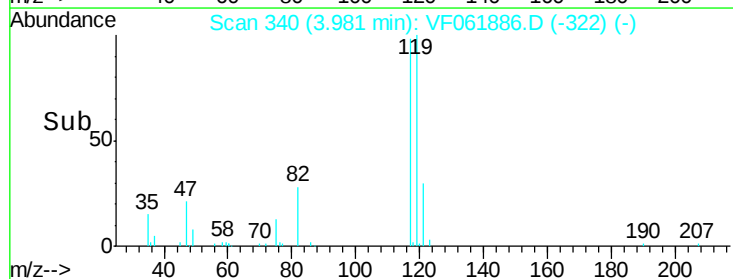
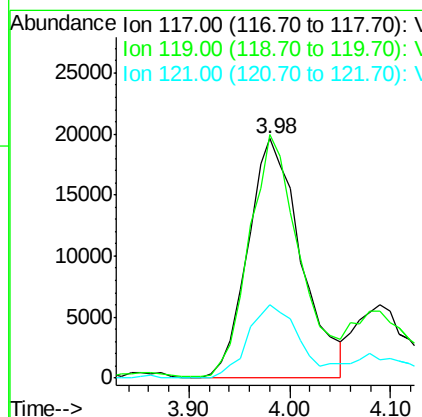
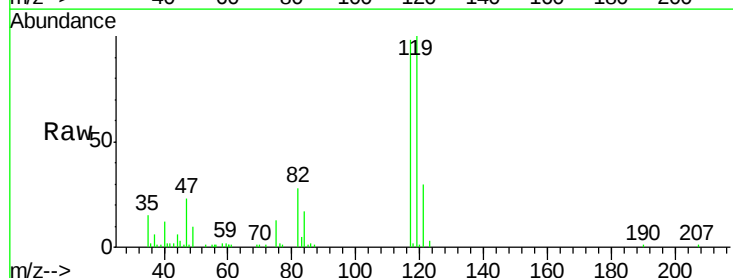
Manual Integrations
APPROVED

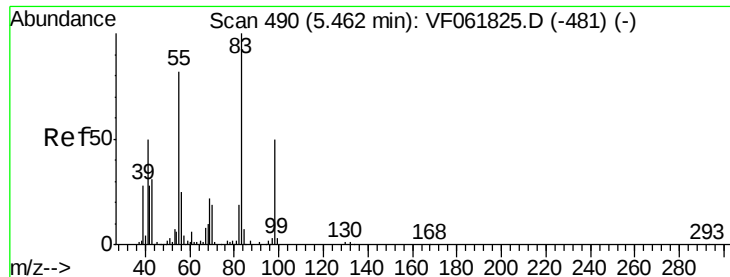
MMDadoda
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#38
Carbon Tetrachloride
Concen: 25.630 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
117	100		
119	101.7	76.6	114.8
121	30.9	24.4	36.6





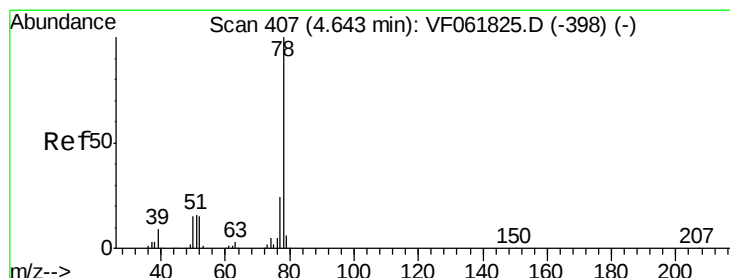
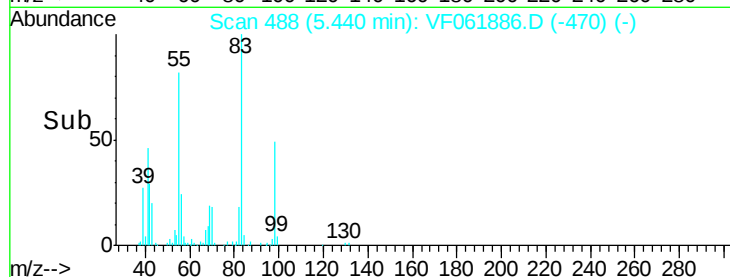
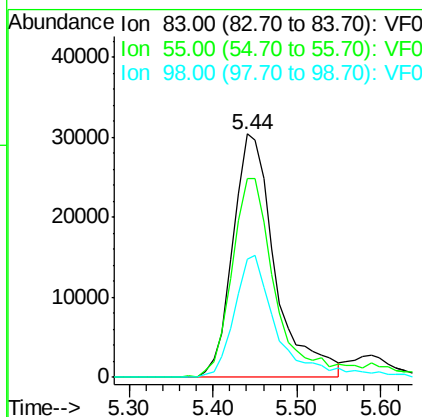
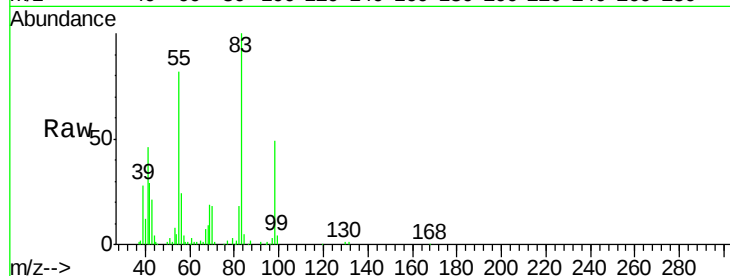
#39
Methvlcvclohexane
Concen: 22.842 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.02 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.8	66.0	99.0
98	48.5	39.8	59.6

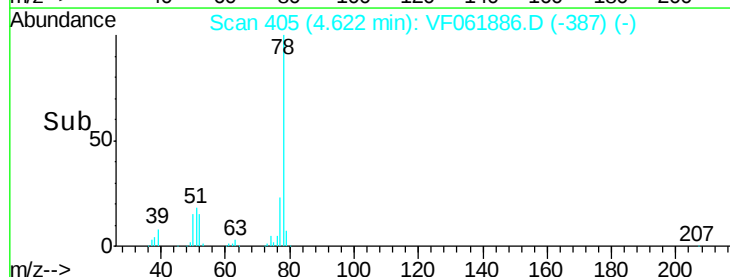
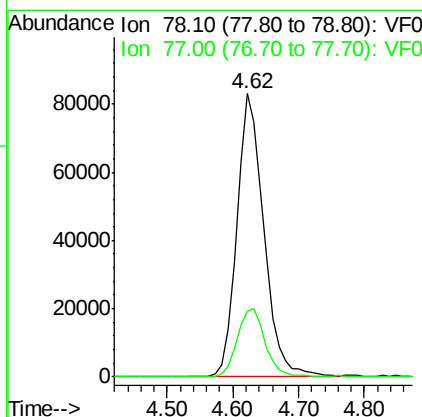
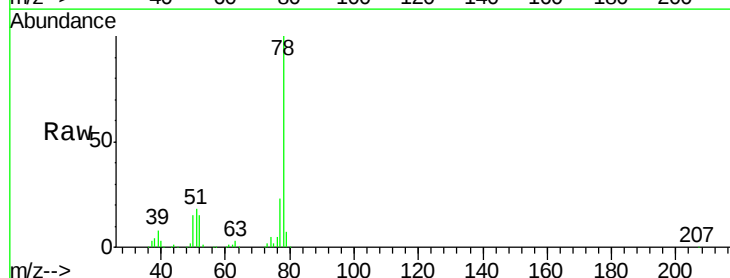
Manual Integrations
APPROVED

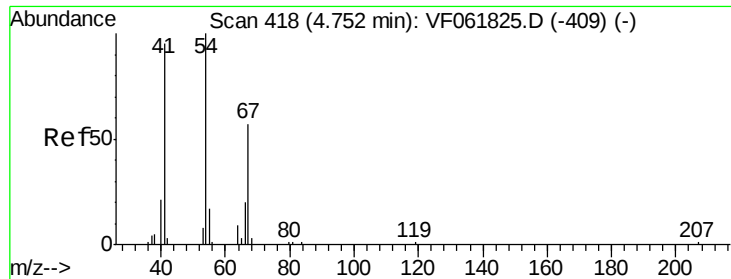
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#40
Benzene
Concen: 23.083 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.02 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.5	29.3





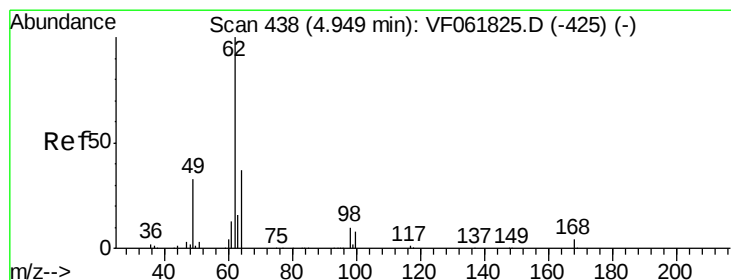
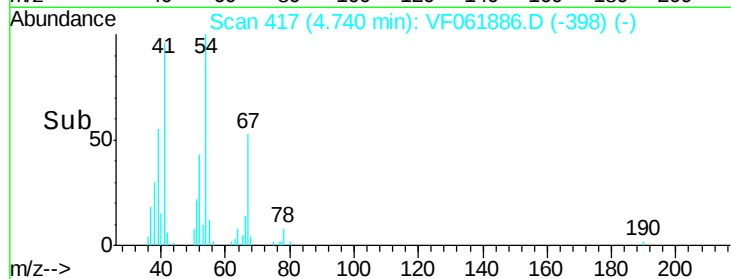
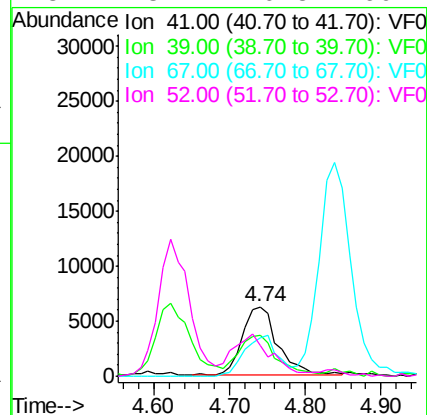
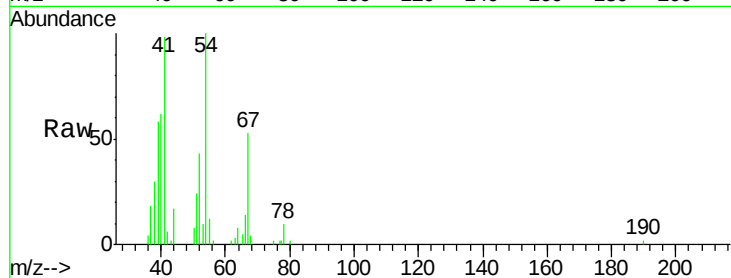
#41
Methacrylonitrile
Concen: 22.177 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	59.4	43.0	64.6
67	54.5	47.8	71.8
52	43.4	40.5	60.7

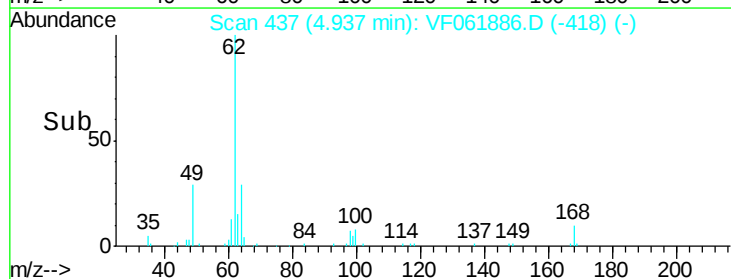
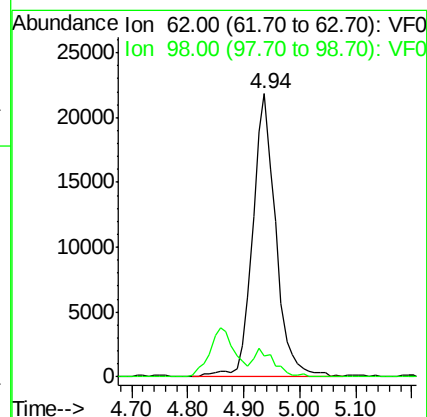
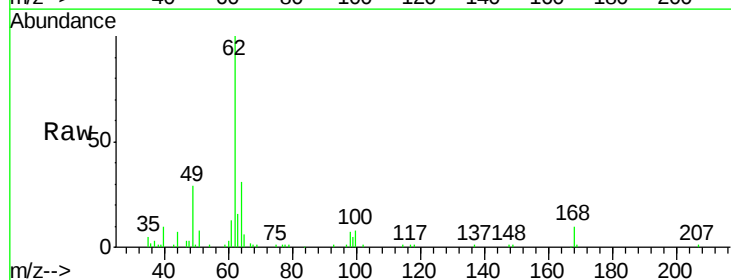
Manual Integrations
APPROVED

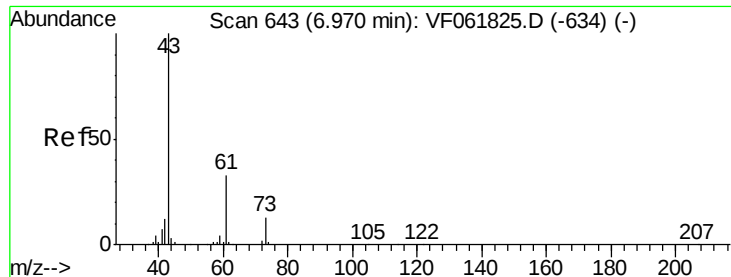
MMDadoda
3/12/2019 4:36:55 PM



#42
1,2-Dichloroethane
Concen: 24.120 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.3	0.0	21.0





#43

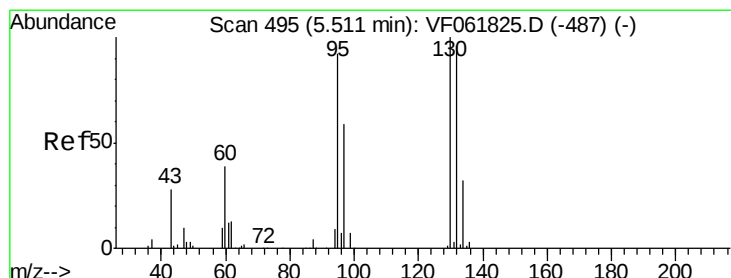
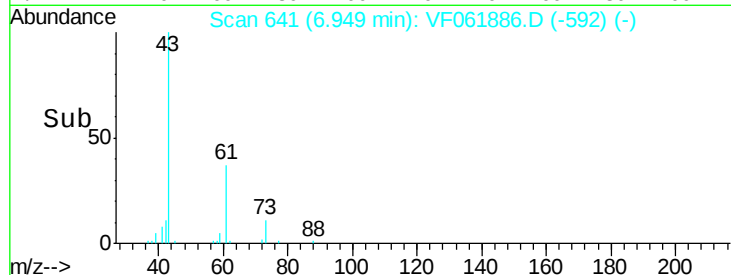
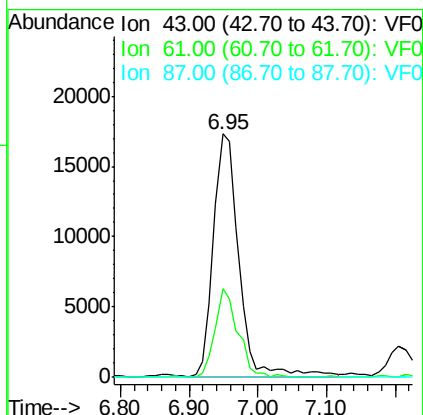
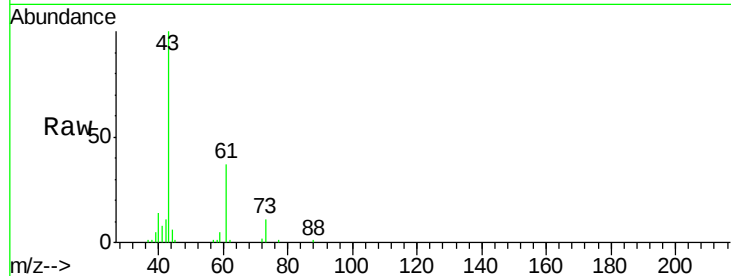
Isopropyl Acetate
 Concen: 21.930 ug/l
 RT: 6.95 min Scan# 641
 Delta R.T. -0.02 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0311SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	36.7	26.1	39.1
87	0.0	0.0	0.0

Manual Integrations
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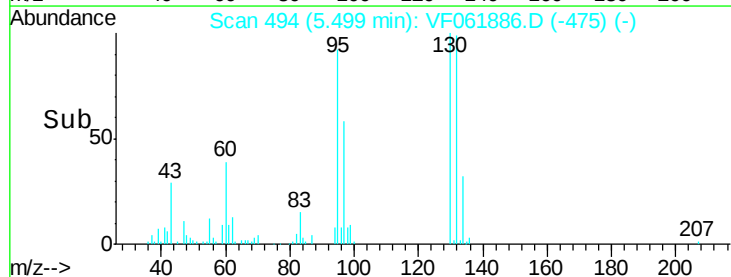
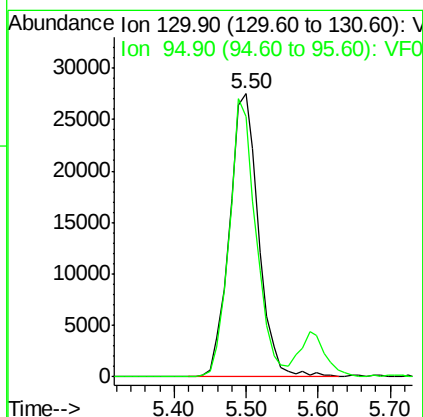
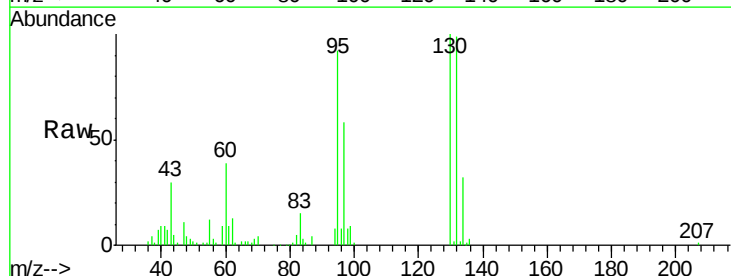
MMDadoda
 3/12/2019 4:36:55 PM

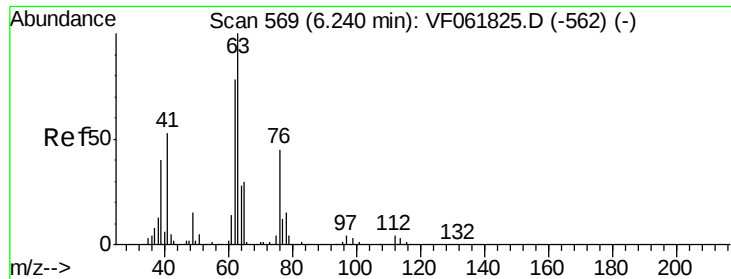


#44

Trichloroethene
 Concen: 23.993 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.01 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	92.1	0.0	184.0





#45

1,2-Dichloropropane

Concen: 22.498 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBSD01

Tot Ion: 63 Resp: 55479

Ion Ratio Lower Upper

63 100

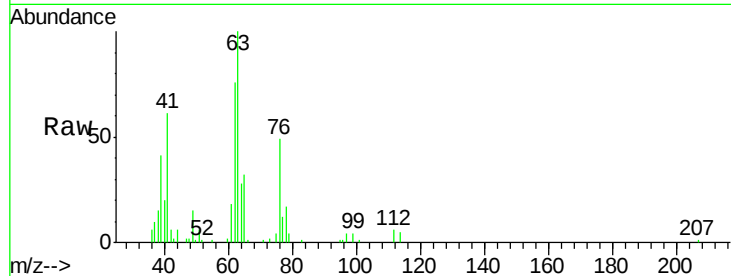
65 32.1 24.0 36.0

Manual Integrations

APPROVED

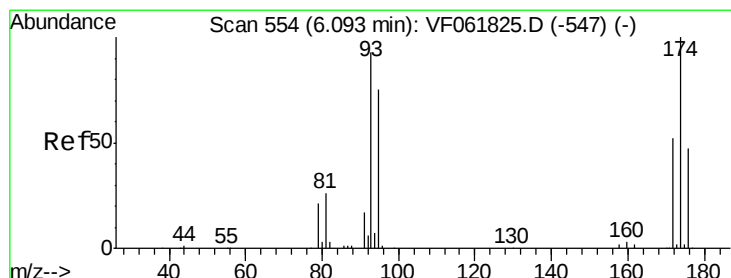
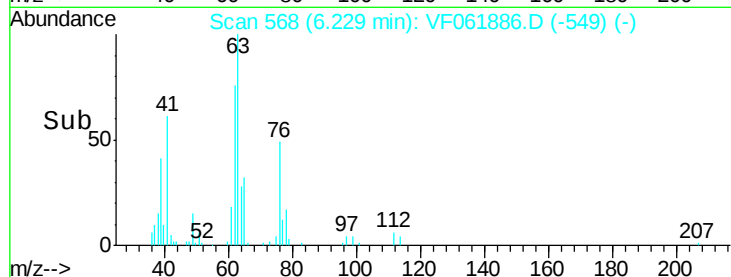
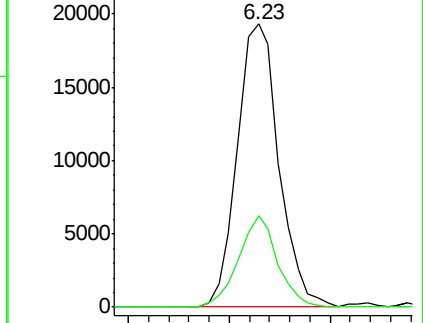
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 23.338 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

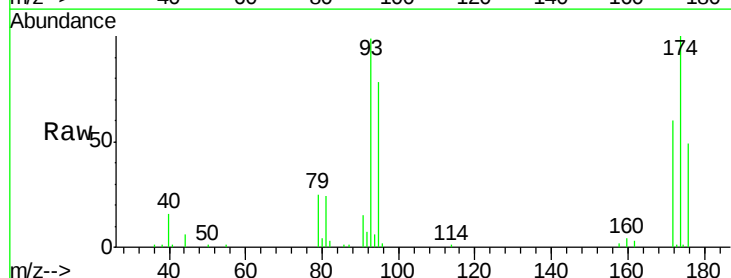
Tgt Ion: 93 Resp: 36220

Ion Ratio Lower Upper

93 100

95 79.6 64.4 96.6

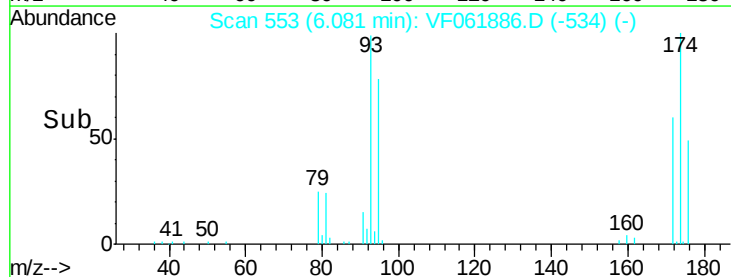
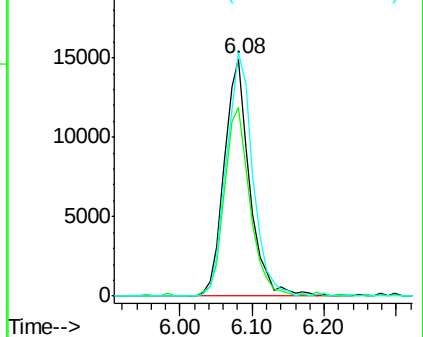
174 102.6 85.8 128.6

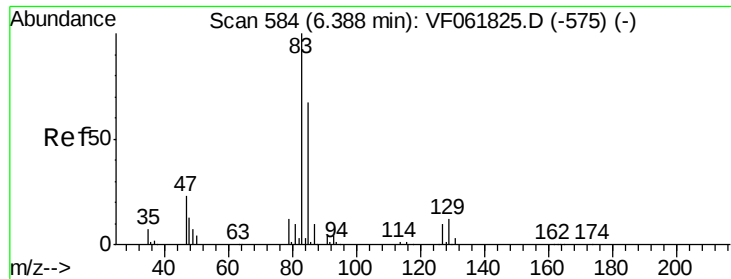


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 23.131 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

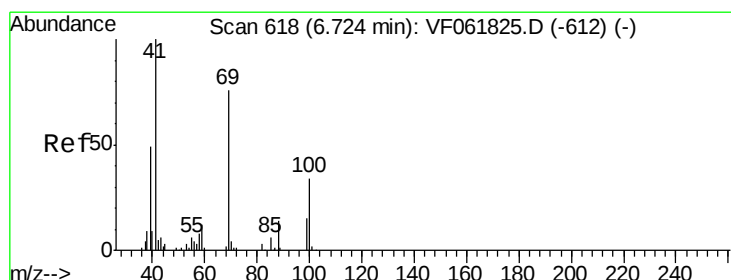
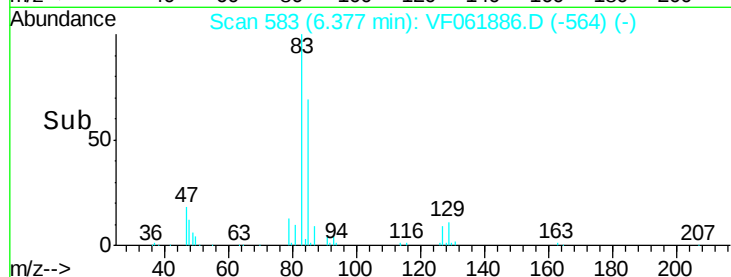
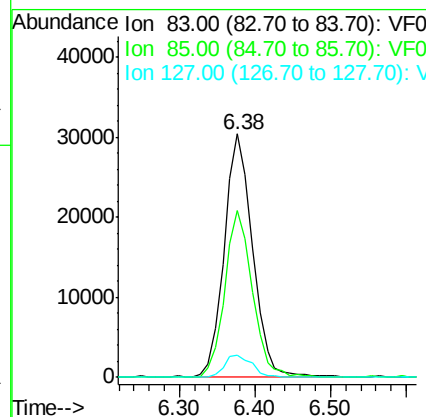
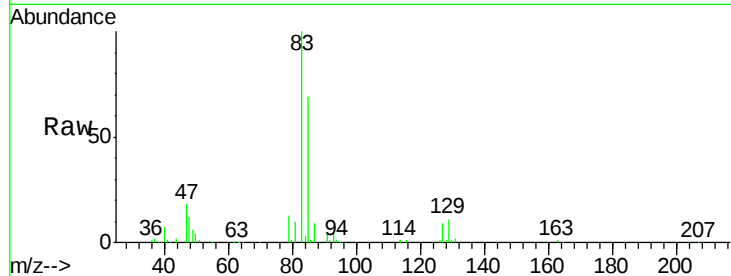
ClientSampleId :

VF0311SBSD01

Tot Ion:	83	Resp:	79309
Ion	Ratio	Lower	Upper
83	100		
85	68.7	53.6	80.4
127	9.0	8.1	12.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 23.006 ug/l

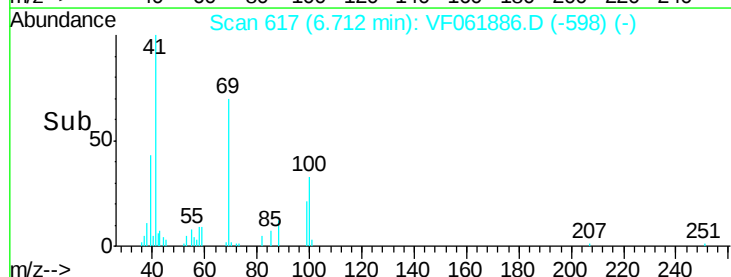
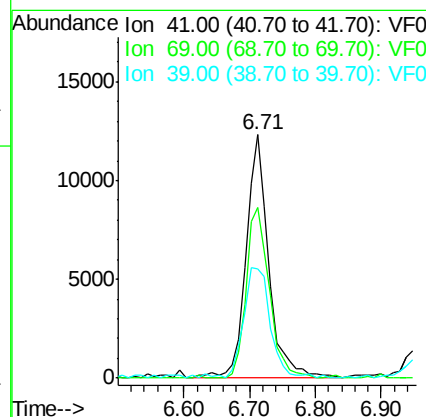
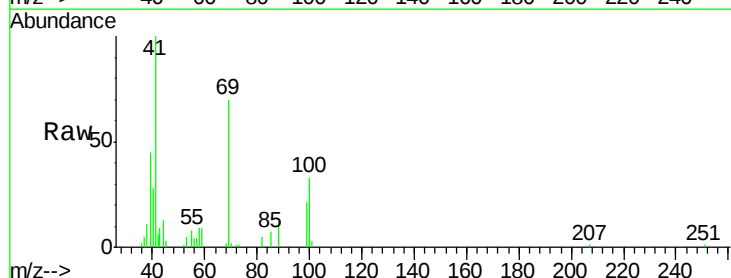
RT: 6.71 min Scan# 617

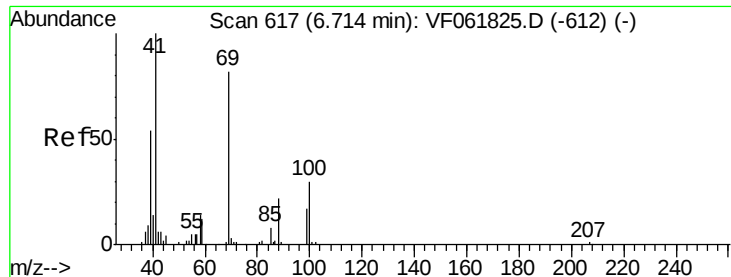
Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Tgt Ion:	41	Resp:	29887
Ion	Ratio	Lower	Upper
41	100		
69	70.0	60.4	90.6
39	44.8	39.7	59.5





#49

1,4-Dioxane

Concen: 414.802 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.00 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

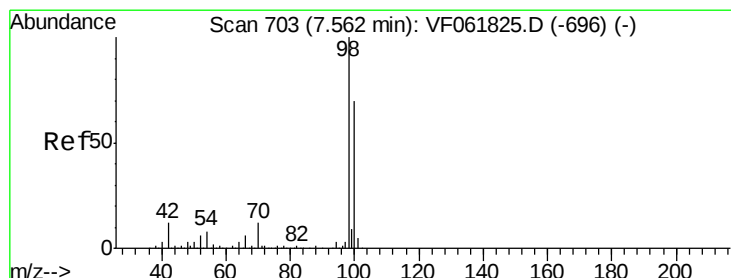
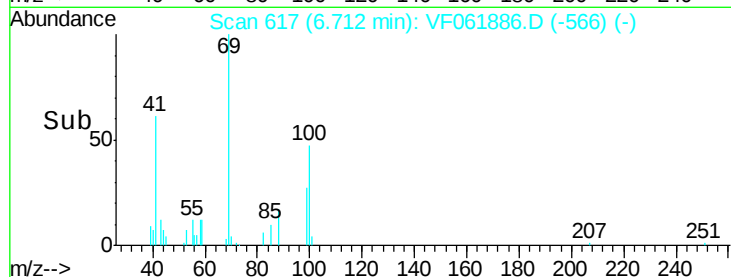
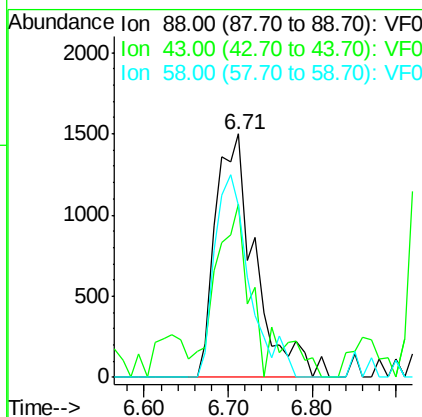
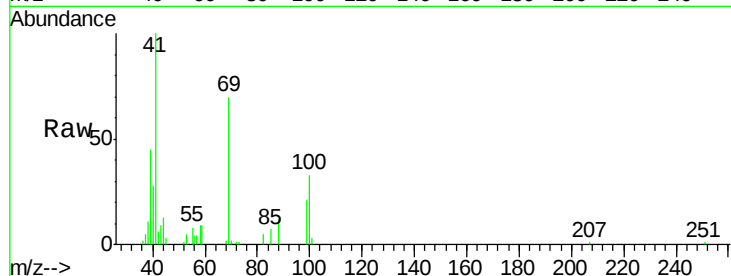
ClientSampleId :

VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
88	100		
43	71.1	28.4	42.6#
58	70.6	50.7	76.1

Manual Integrations
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#50

Toluene-d8

Concen: 46.906 ug/l

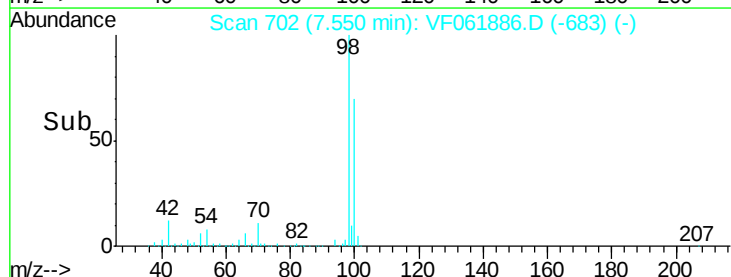
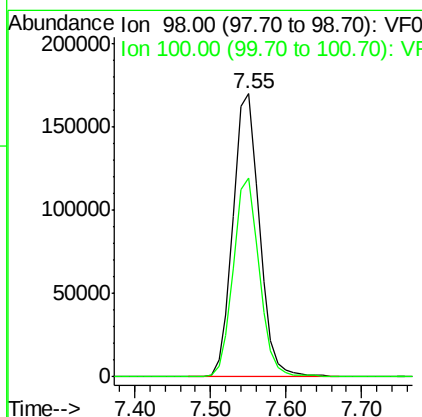
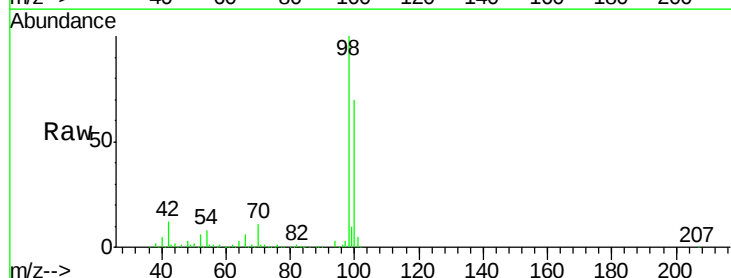
RT: 7.55 min Scan# 702

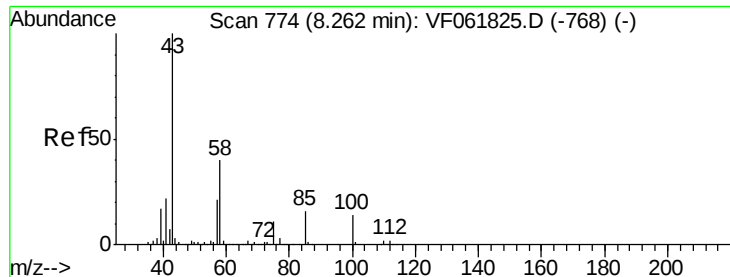
Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.2	56.0	84.0





#51

4-Methyl-2-Pentanone

Concen: 115.530 ug/l

RT: 8.25 min Scan# 773

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBSD01

Tot Ion: 43 Resp: 163900

Ion Ratio Lower Upper

43 100

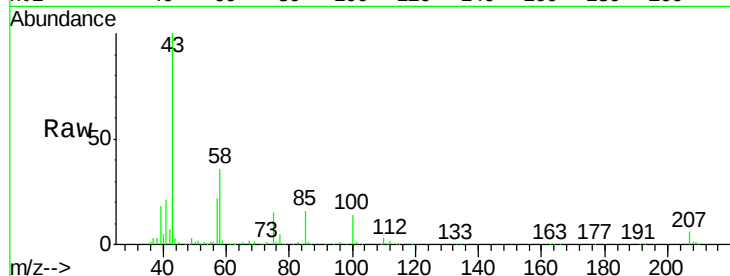
58 36.4 31.8 47.8

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

8.25

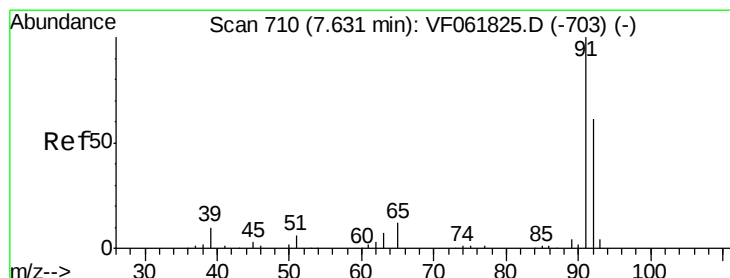
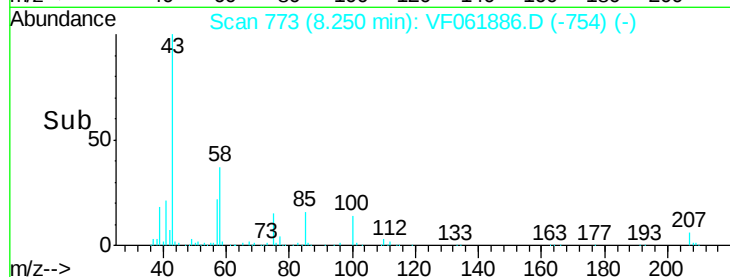
60000

40000

20000

0

Time--> 8.10 8.20 8.30 8.40



#52

Toluene

Concen: 22.857 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061886.D

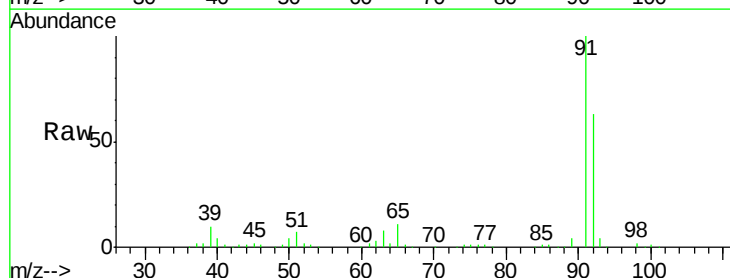
Acq: 11 Mar 2019 13:36

Tgt Ion: 92 Resp: 140219

Ion Ratio Lower Upper

92 100

91 159.5 132.0 198.0



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.62

100000

80000

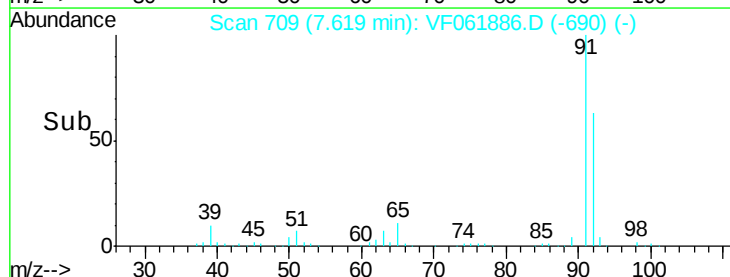
60000

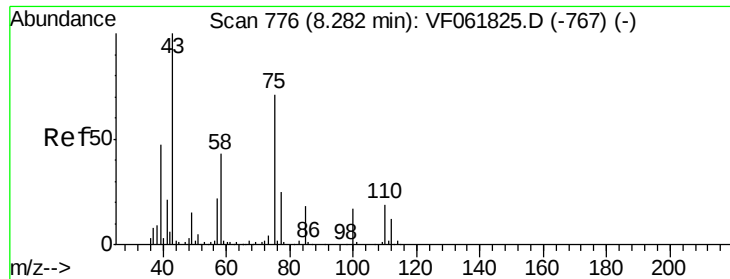
40000

20000

0

Time--> 7.50 7.60 7.70





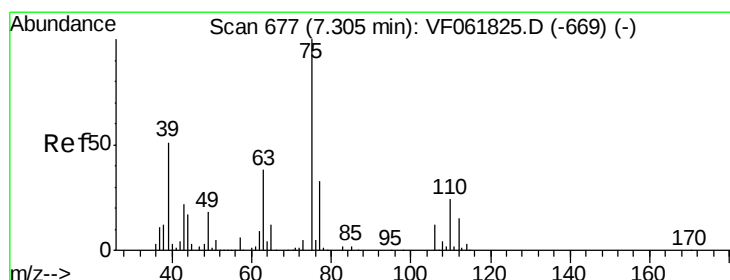
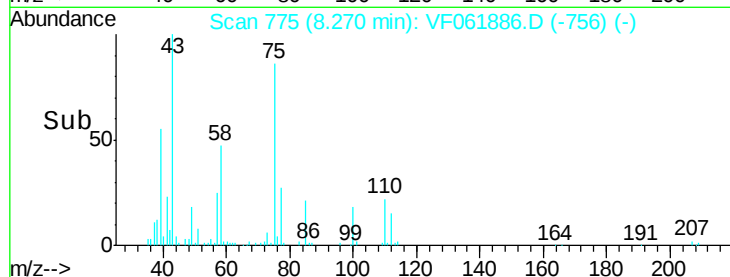
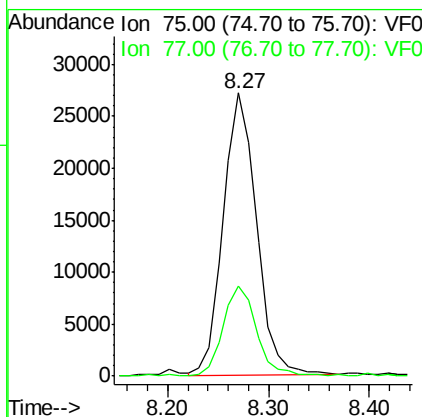
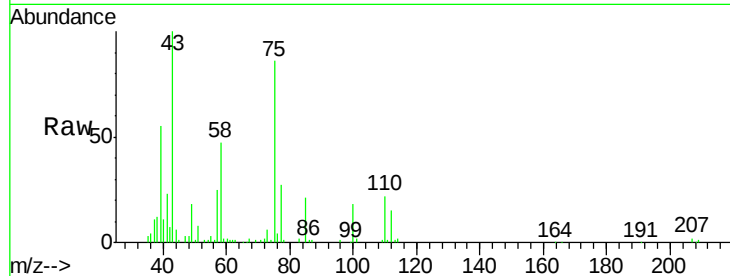
#53
t-1,3-Dichloropropene
Concen: 21.956 ug/l
RT: 8.27 min Scan# 775
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	28.0	42.0

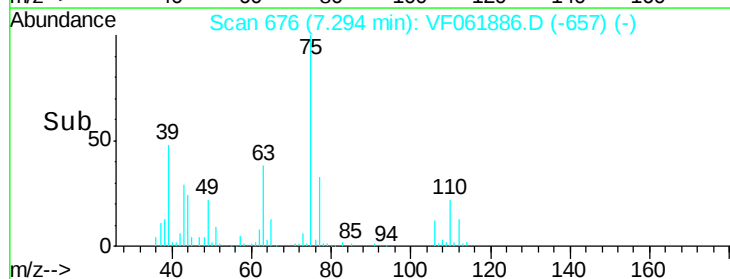
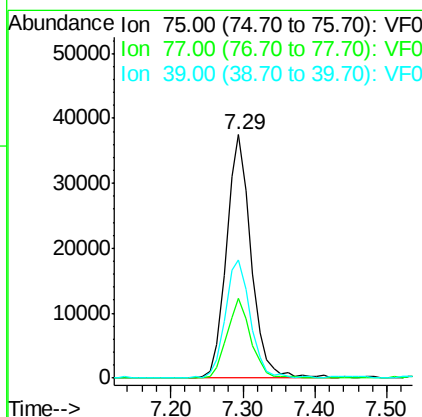
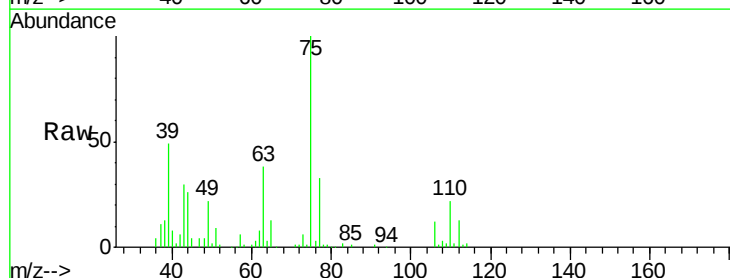
Manual Integrations
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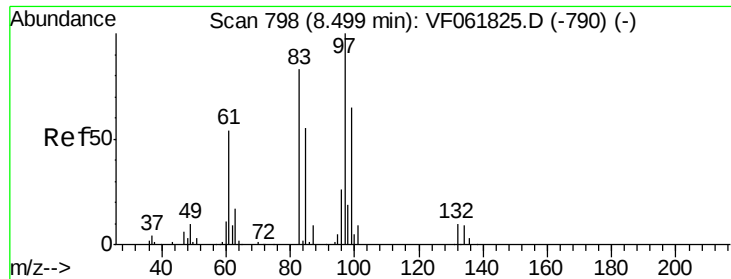
MMDadoda
3/12/2019 4:36:55 PM



#54
cis-1,3-Dichloropropene
Concen: 22.769 ug/l
RT: 7.29 min Scan# 676
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.3	39.5
39	48.5	40.8	61.2





#55

1,1,2-Trichloroethane

Concen: 22.597 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

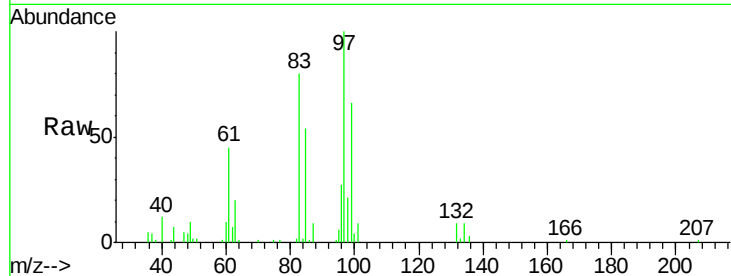
ClientSampleId :

VF0311SBSD01

Tot Ion:	97	Resp:	39942
Ion	Ratio	Lower	Upper
97	100		
83	79.8	66.5	99.7
85	53.8	44.2	66.2
99	66.2	51.8	77.6

Manual Integrations
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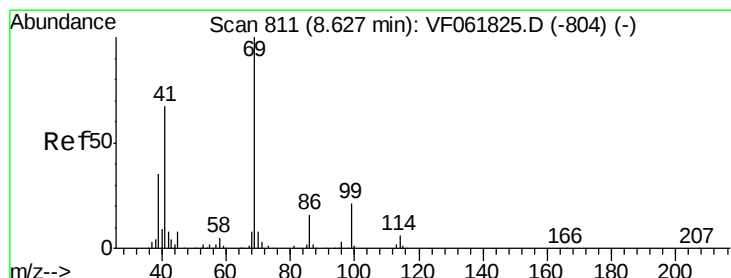
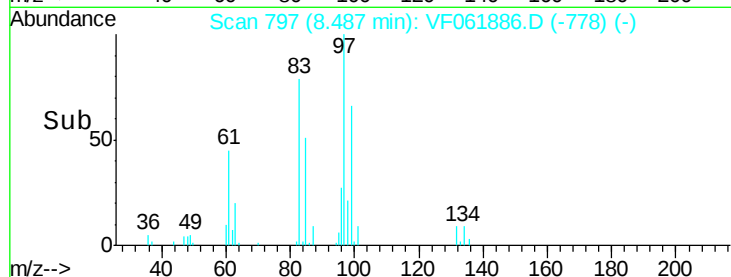
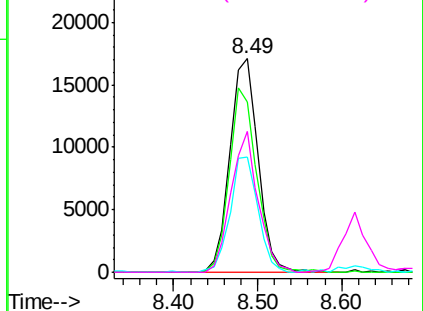


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 22.673 ug/l

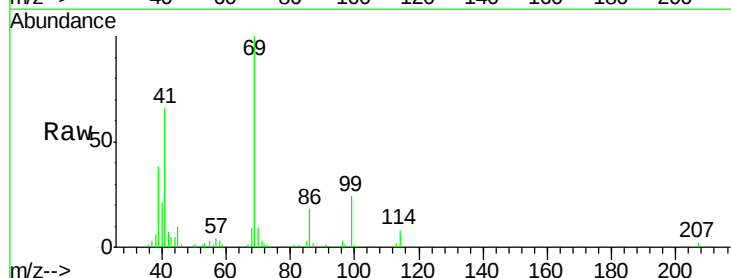
RT: 8.62 min Scan# 810

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

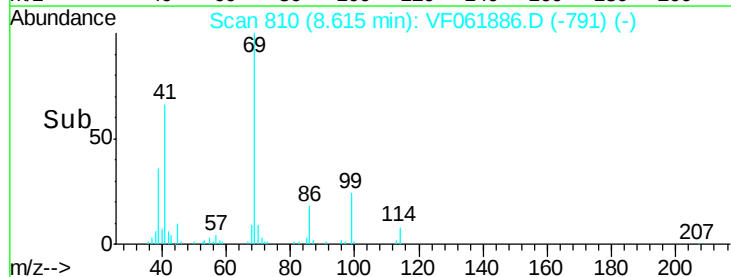
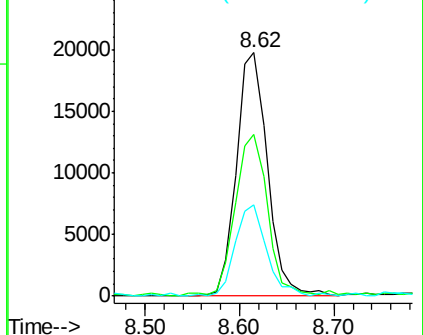
Tgt Ion:	69	Resp:	45166
Ion	Ratio	Lower	Upper
69	100		
41	66.4	53.9	80.9
39	37.7	28.3	42.5

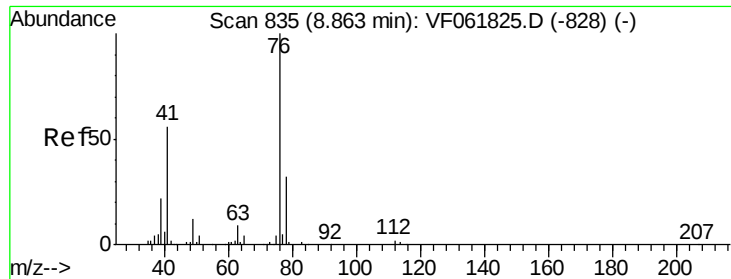


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





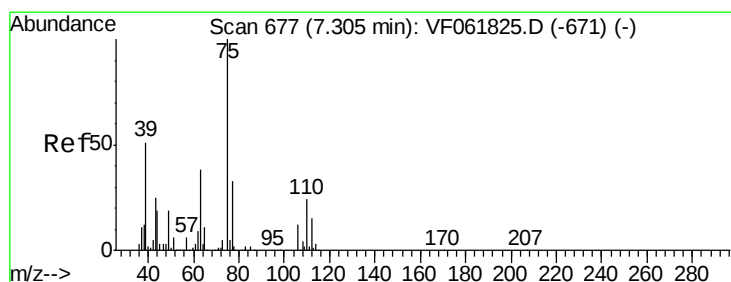
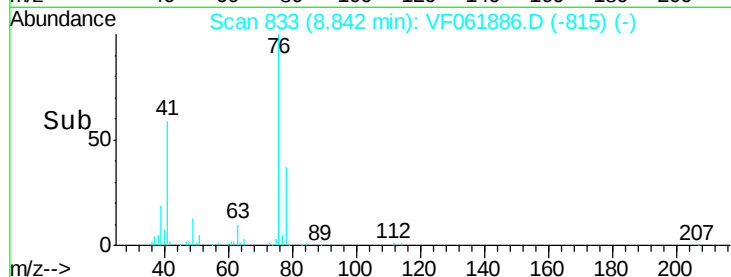
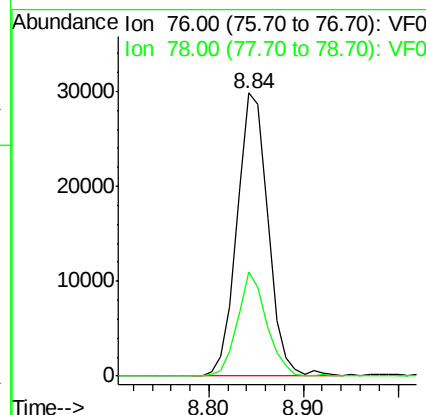
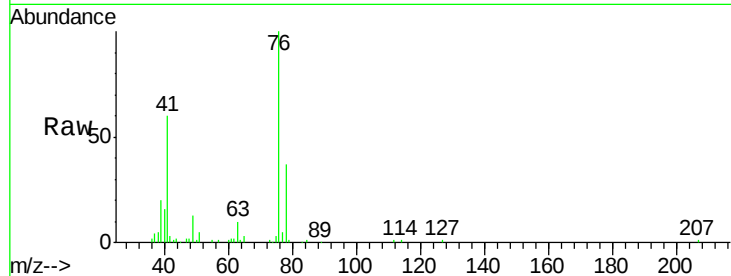
#57
 1,3-Dichloropropane
 Concen: 23.512 ug/l
 RT: 8.84 min Scan# 833
 Delta R.T. -0.02 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0311SBSD01

Tot Ion: 76 Resp: 67965
 Ion Ratio Lower Upper
 76 100
 78 36.7 25.4 38.2

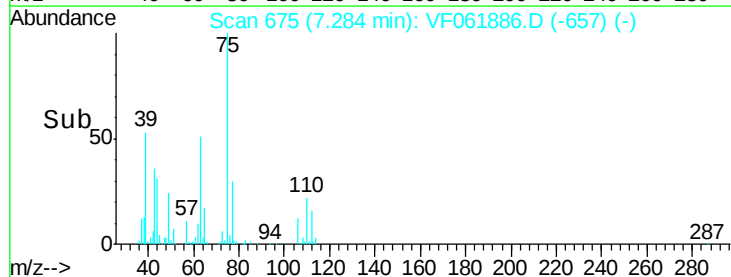
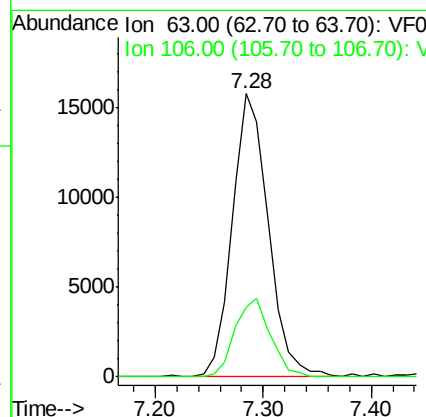
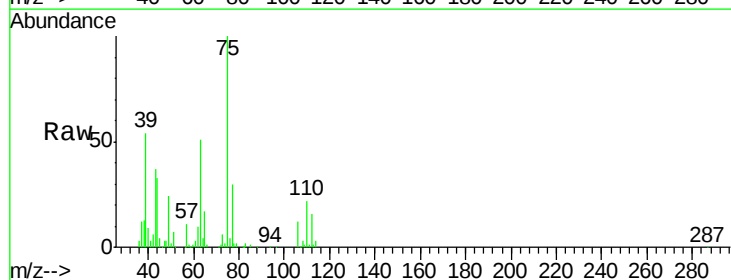
Manual Integrations
 APPROVED

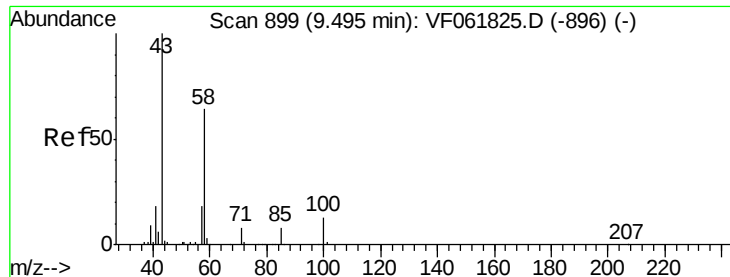
MMDadoda
 3/12/2019 4:36:55 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 115.713 ug/l
 RT: 7.28 min Scan# 675
 Delta R.T. -0.02 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Tgt Ion: 63 Resp: 36464
 Ion Ratio Lower Upper
 63 100
 106 24.4 24.3 36.5





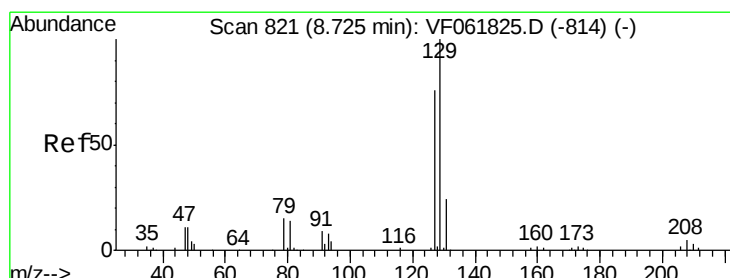
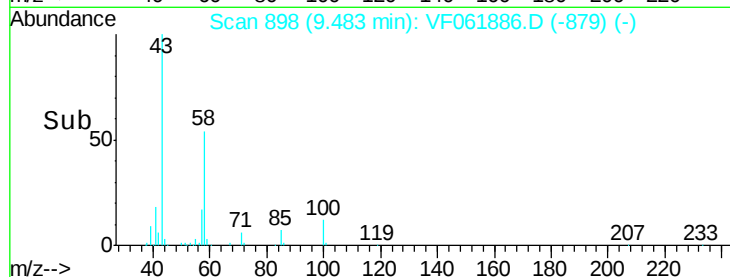
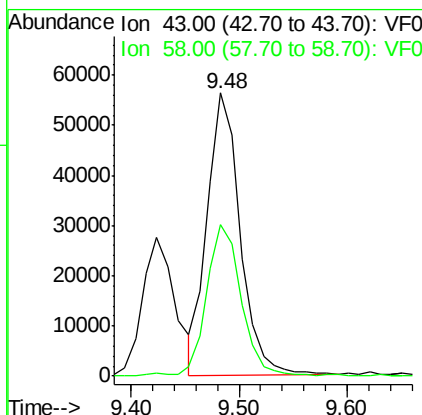
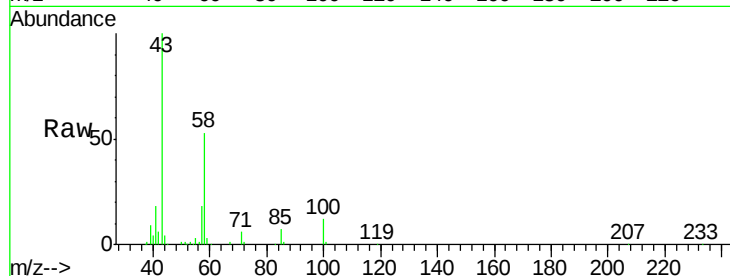
#59
2-Hexanone
Concen: 115.559 ug/l
RT: 9.48 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion: 43 Resp: 118269
Ion Ratio Lower Upper
43 100
58 53.5 28.8 86.4

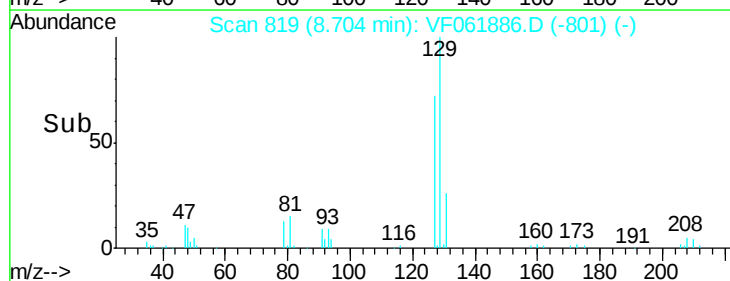
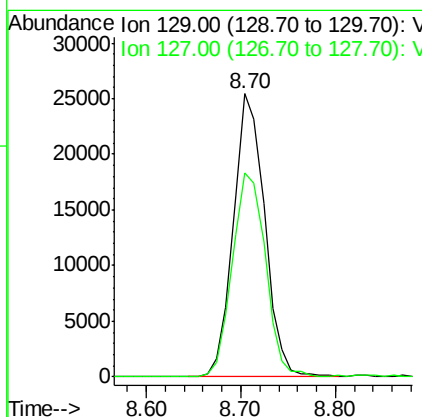
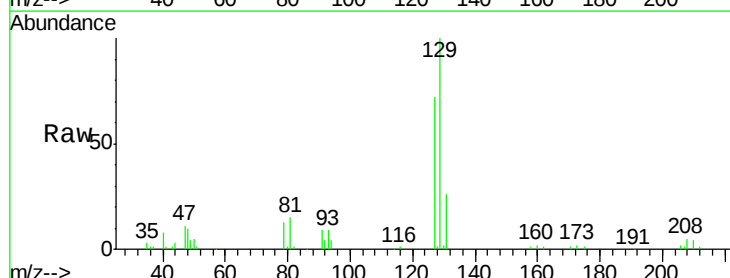
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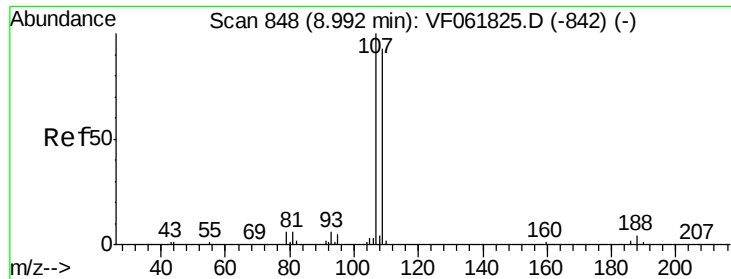
MMDadoda
3/12/2019 4:36:55 PM



#60
Dibromochloromethane
Concen: 23.170 ug/l
RT: 8.70 min Scan# 819
Delta R.T. -0.02 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion:129 Resp: 58372
Ion Ratio Lower Upper
129 100
127 72.0 38.2 114.6





#61

1,2-Dibromoethane

Concen: 21.837 ug/l

RT: 8.98 min Scan# 847

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBS01

Tot Ion: 107 Resp: 42446

Ion Ratio Lower Upper

107 100

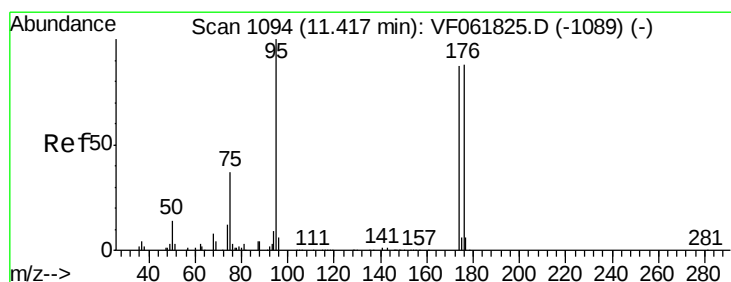
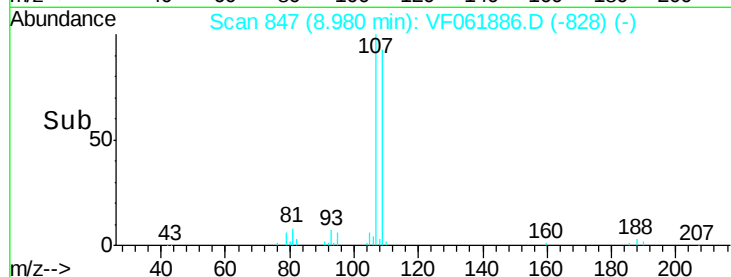
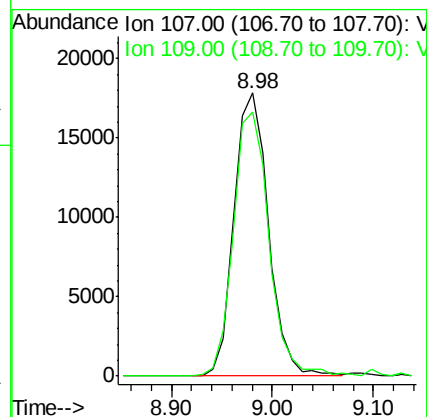
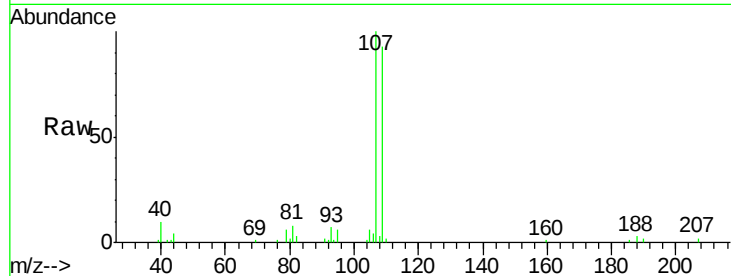
109 93.3 74.6 112.0

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 49.687 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

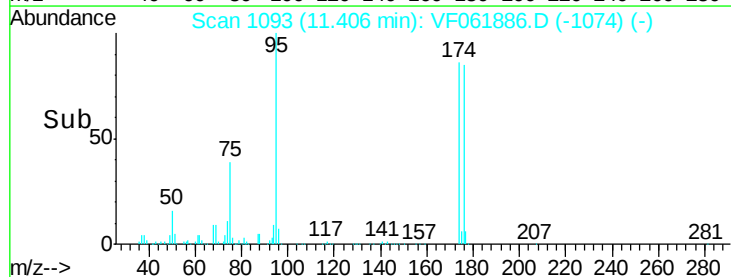
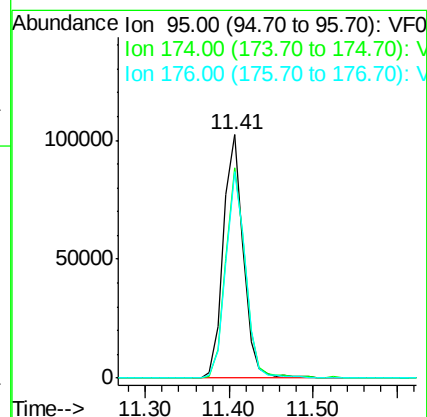
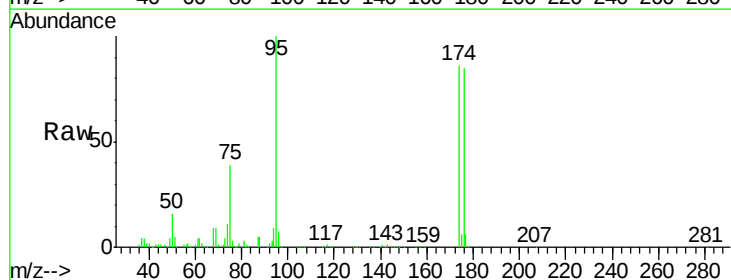
Tgt Ion: 95 Resp: 169564

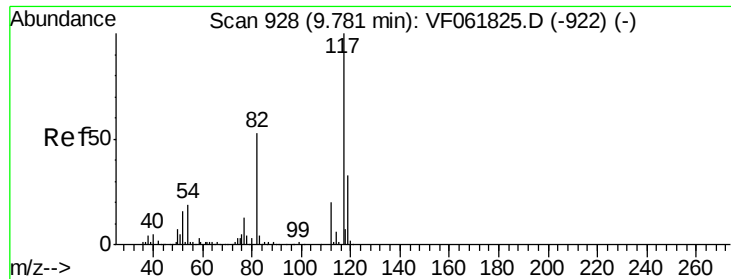
Ion Ratio Lower Upper

95 100

174 86.3 0.0 174.0

176 84.6 0.0 175.2





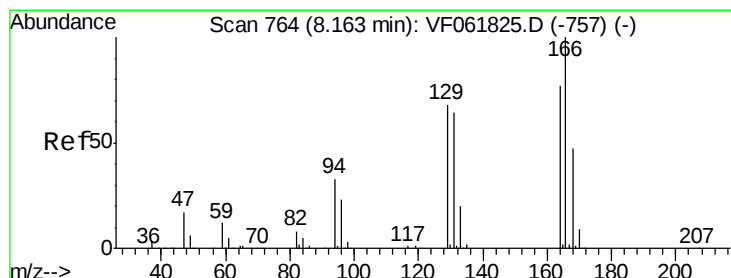
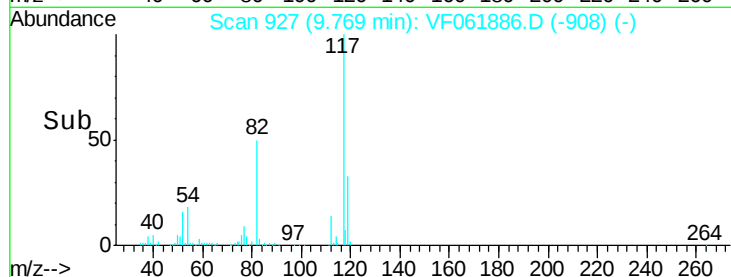
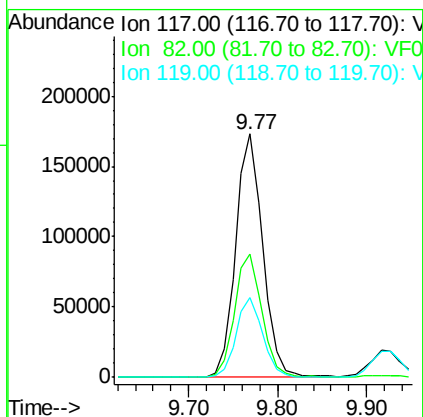
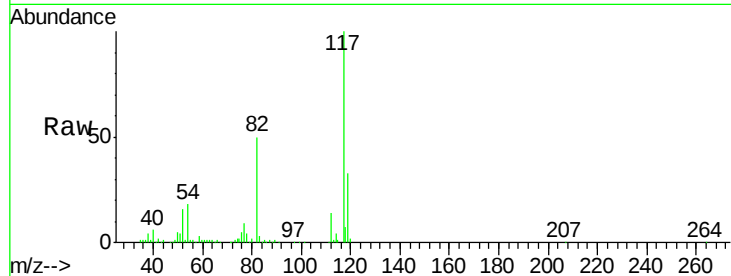
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.4	42.6	63.8
119	32.7	26.0	39.0

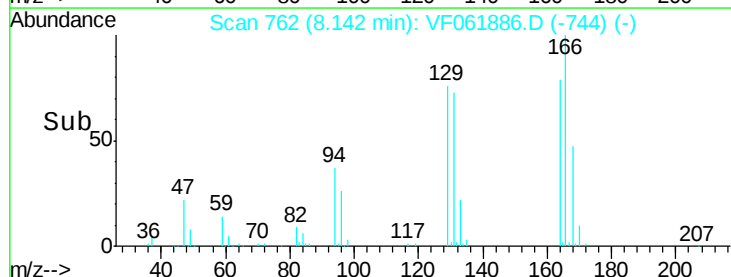
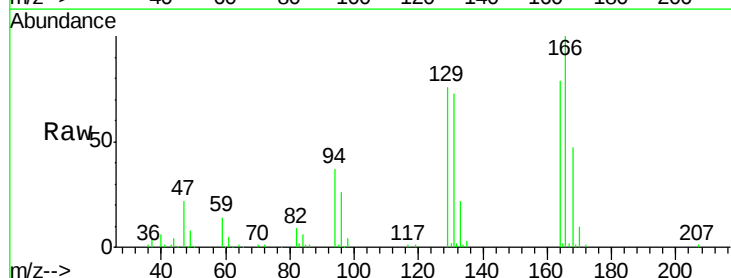
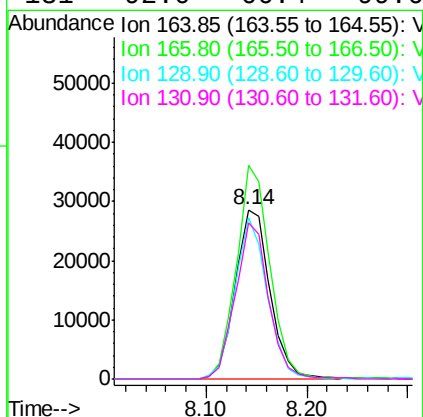
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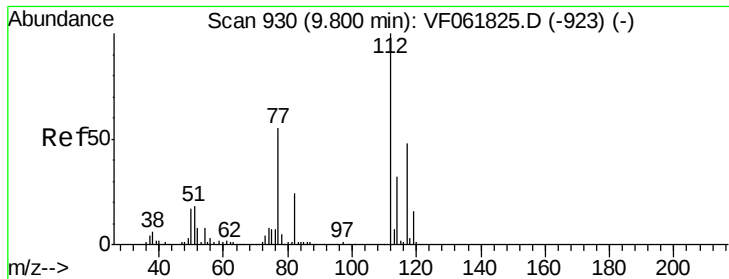
MMDadoda
3/12/2019 4:36:55 PM



#64
Tetrachloroethene
Concen: 24.243 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.02 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.0	103.4	155.0
129	95.5	69.9	104.9
131	92.0	66.4	99.6





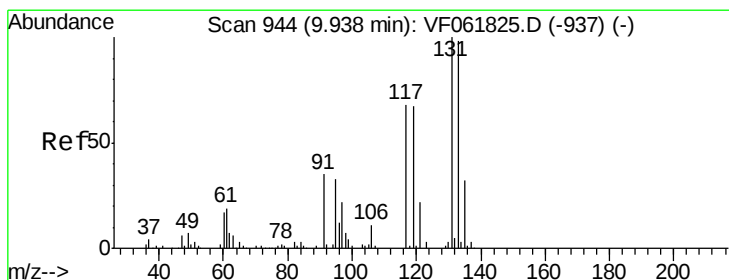
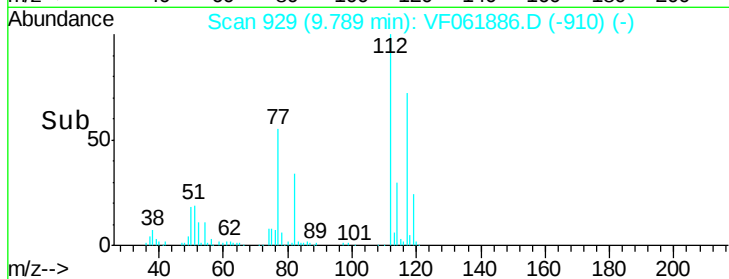
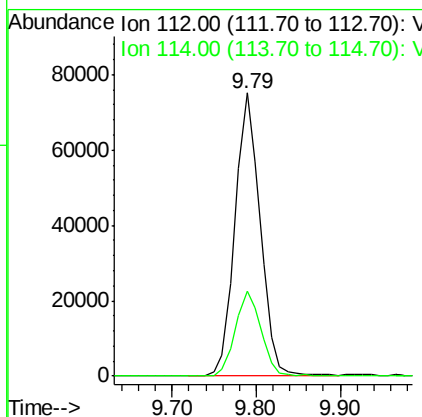
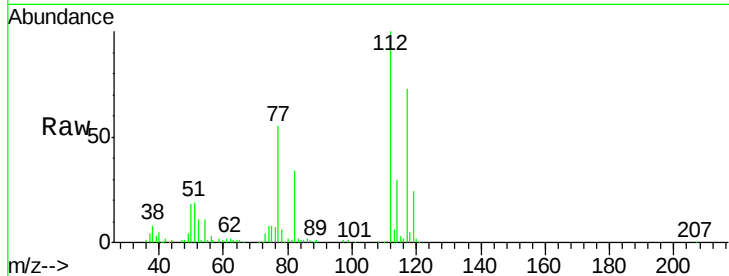
#65
Chlorobenzene
Concen: 22.194 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Resp	Lower	Upper
112	100	156871		
114	30.2	25.5	38.3	

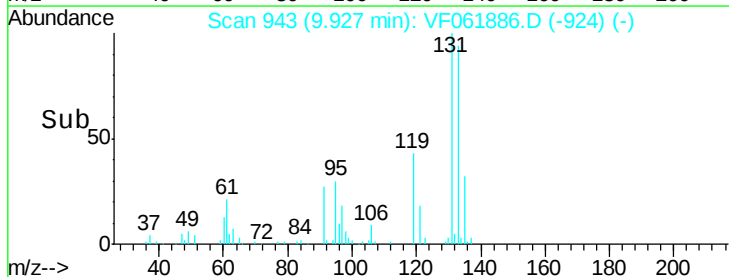
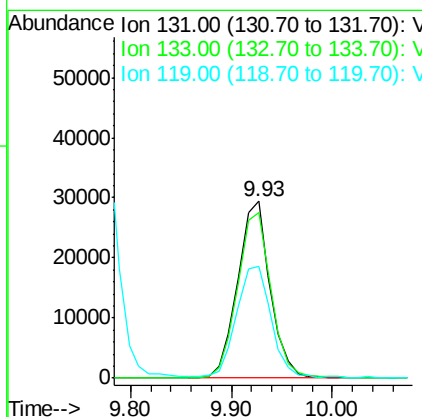
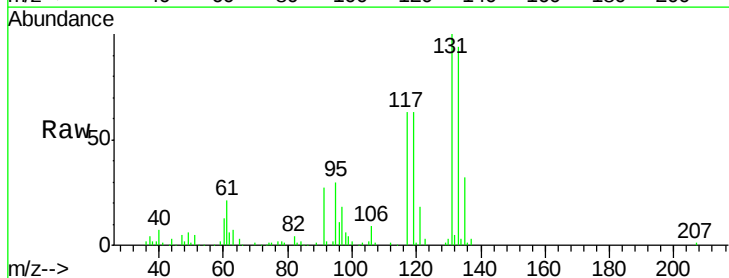
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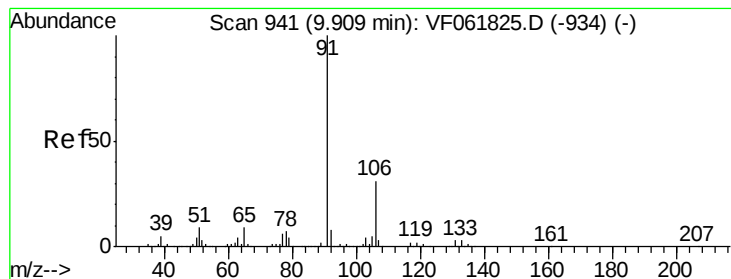
MMDadoda
3/12/2019 4:36:55 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 24.067 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	65908		
133	93.6	48.9	146.7	
119	63.5	33.6	100.8	





#67

Ethyl Benzene

Concen: 23.264 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBS01

Tot Ion: 91 Resp: 272542

Ion Ratio Lower Upper

91 100

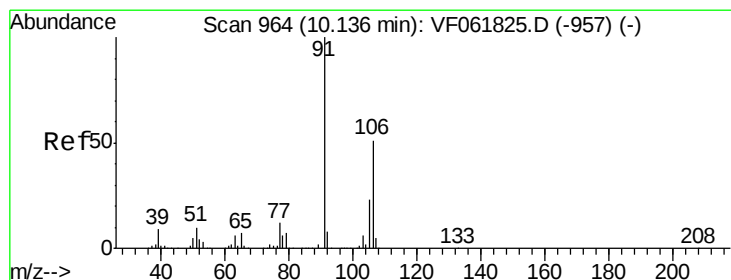
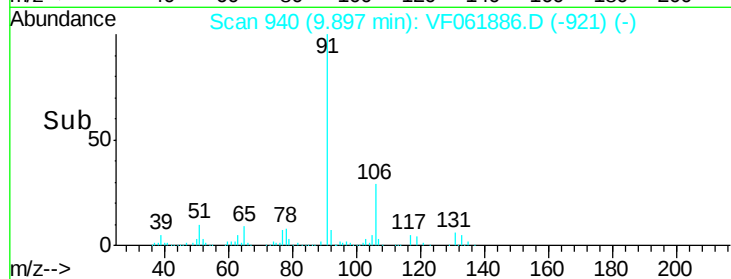
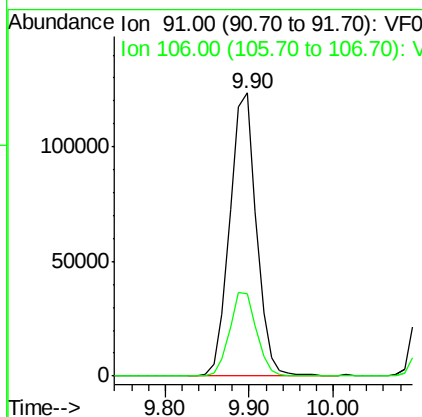
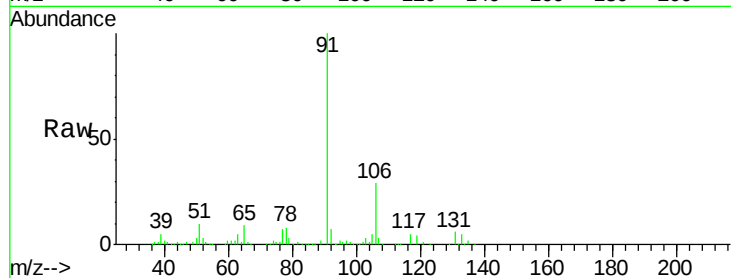
106 29.3 25.0 37.4

Manual Integrations

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#68

m/p-Xylenes

Concen: 44.060 ug/l

RT: 10.12 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF061886.D

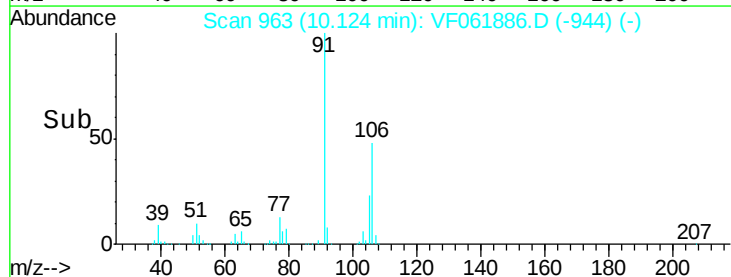
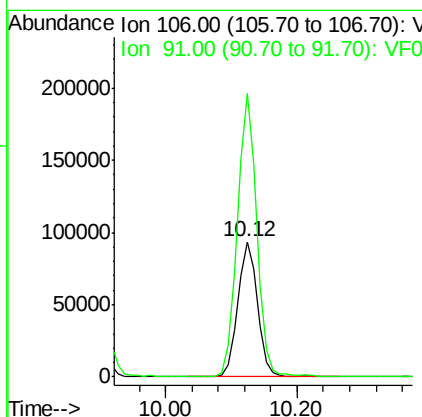
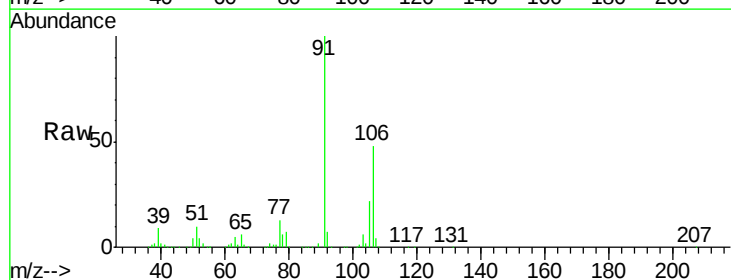
Acq: 11 Mar 2019 13:36

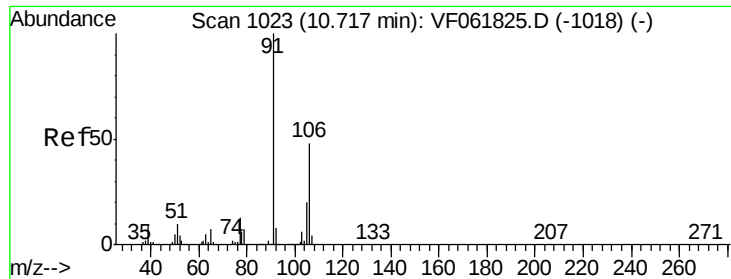
Tgt Ion: 106 Resp: 197737

Ion Ratio Lower Upper

106 100

91 209.1 157.5 236.3





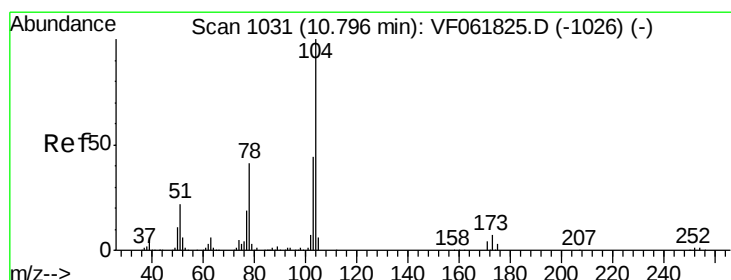
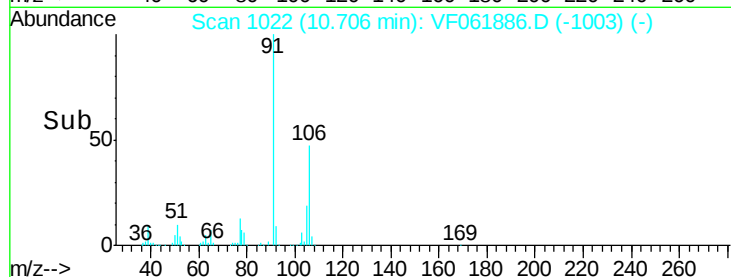
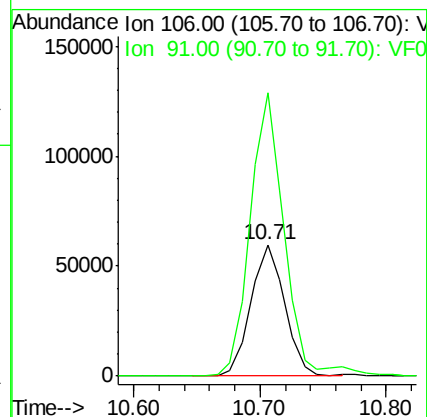
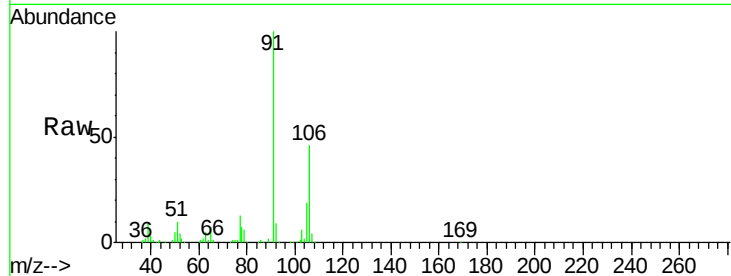
#69
o-Xylene
Concen: 23.227 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	215.2	103.5	310.3

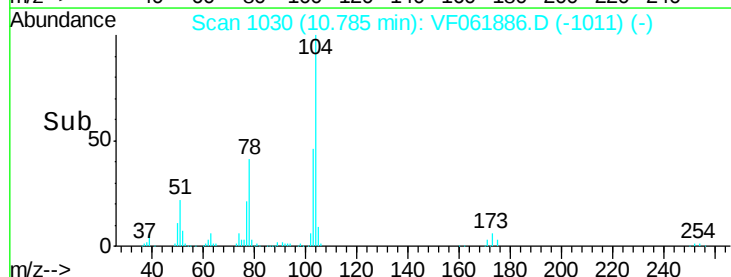
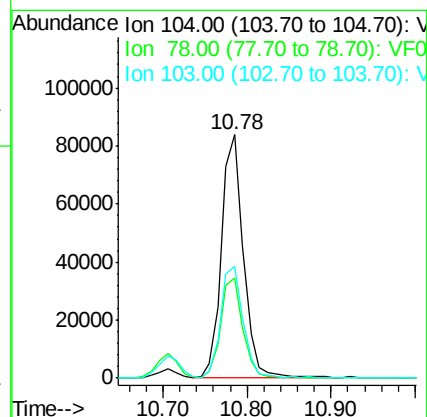
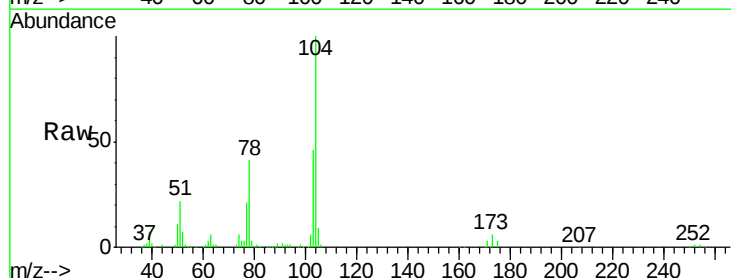
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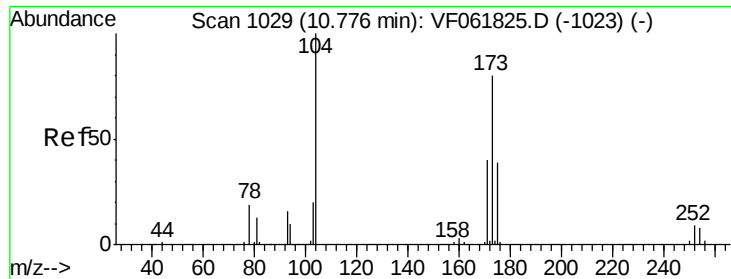
MMDadoda
3/12/2019 4:36:55 PM



#70
Styrene
Concen: 22.437 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
104	100		
78	41.4	33.3	49.9
103	45.7	35.4	53.0





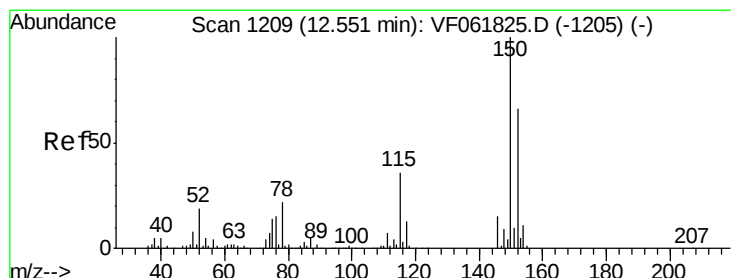
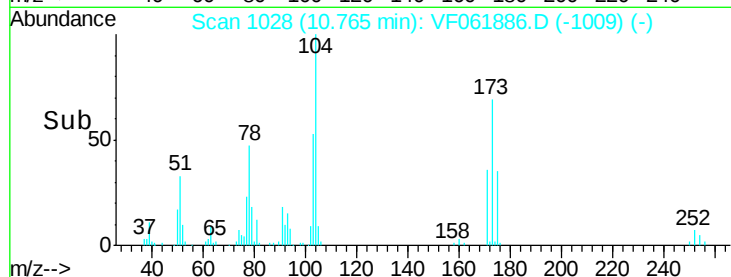
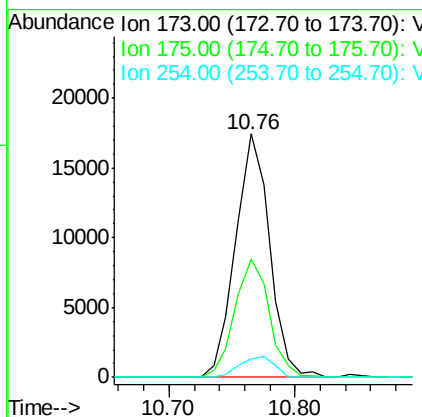
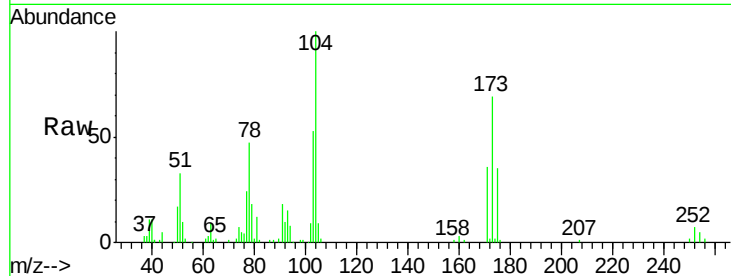
#71
Bromoform
Concen: 22.560 ug/l
RT: 10.76 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.5	73.5
254	7.5	8.0	12.0

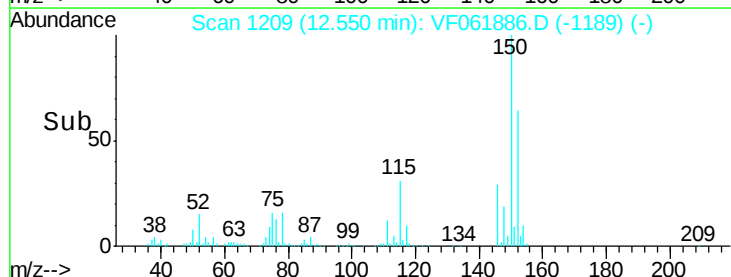
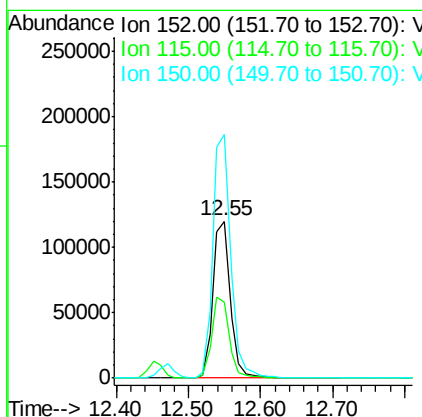
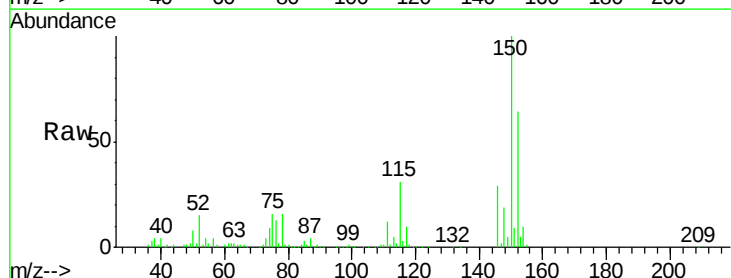
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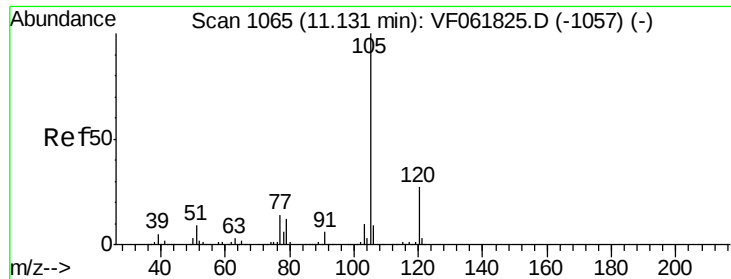
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	48.0	27.7	83.1
150	155.1	0.0	304.2





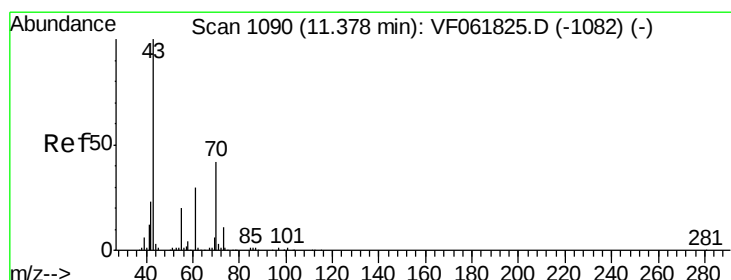
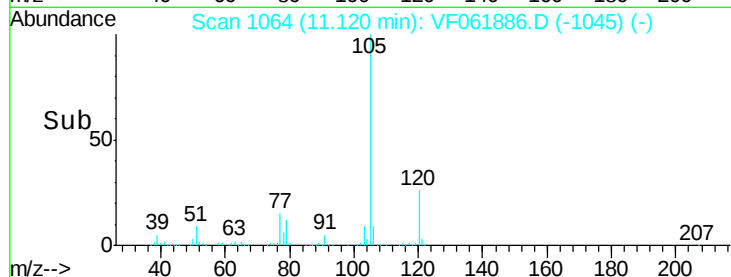
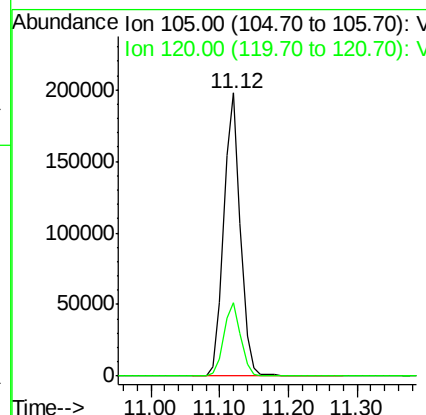
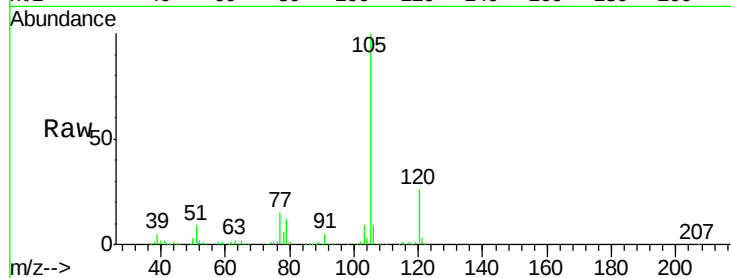
#73
Isopropylbenzene
Concen: 24.136 ug/l
RT: 11.12 min Scan# 1064
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion:105 Resp: 330143
Ion Ratio Lower Upper
105 100
120 26.1 13.7 41.0

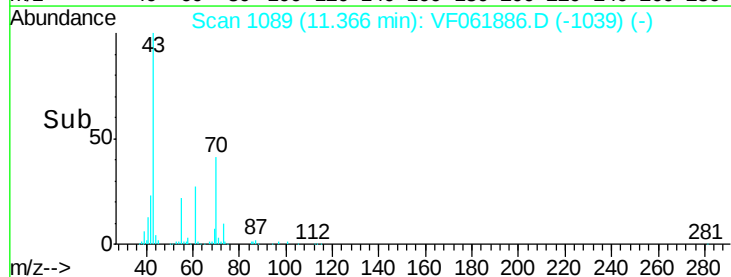
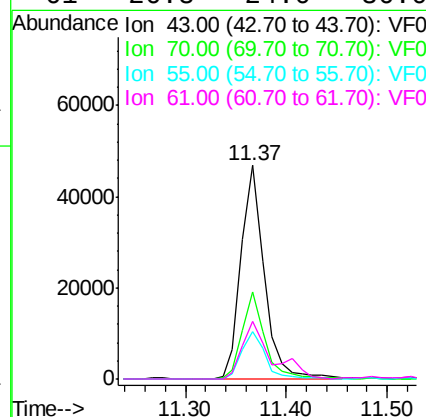
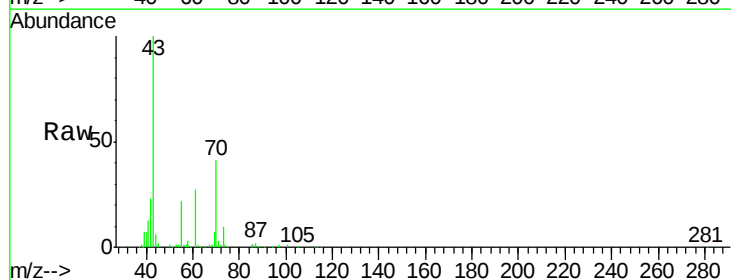
Manual Integrations
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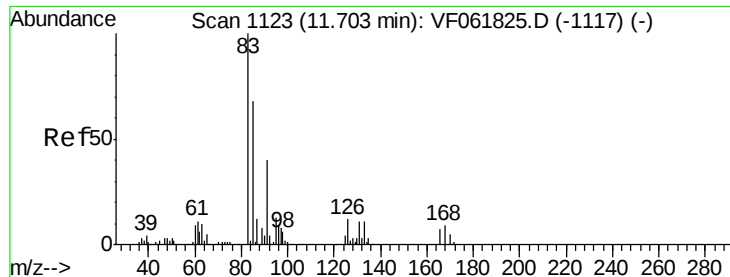
MMDadoda
3/12/2019 4:36:55 PM



#74
N-ethyl acetate
Concen: 23.934 ug/l
RT: 11.37 min Scan# 1089
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion: 43 Resp: 75367
Ion Ratio Lower Upper
43 100
70 40.8 33.4 50.0
55 22.1 16.3 24.5
61 26.8 24.0 36.0





#75

1,1,2,2-Tetrachloroethane

Concen: 23.537 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

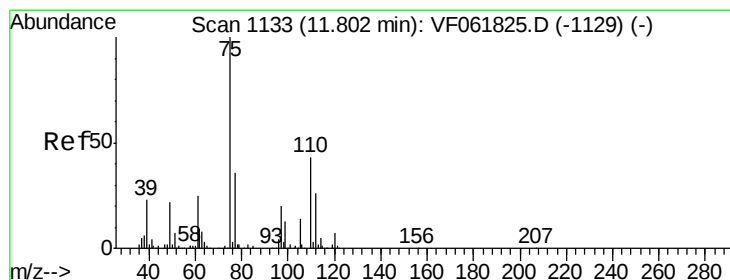
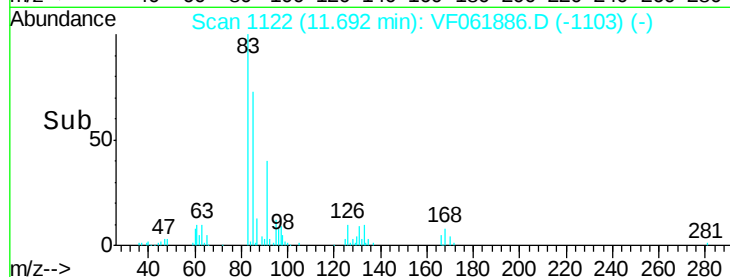
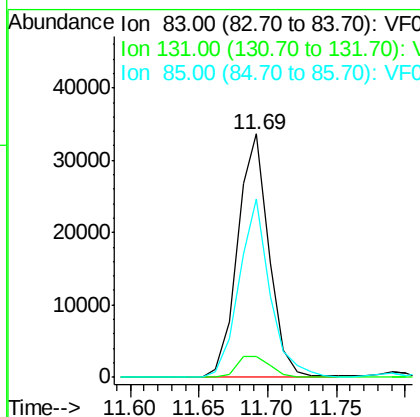
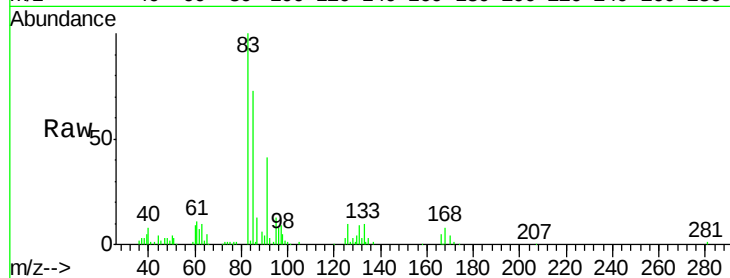
ClientSampleId :

VF0311SBSD01

Tot Ion	83	Resp	53509
Ion	Ratio	Lower	Upper
83	100		
131	8.5	5.5	16.7
85	73.5	34.2	102.6

Manual Integrations
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3/12/2019 4:36:55 PM



#76

1,2,3-Trichloropropane

Concen: 23.095 ug/l

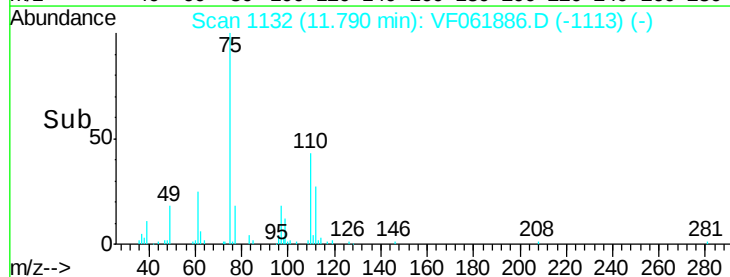
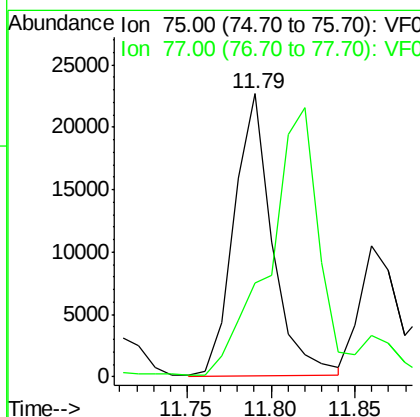
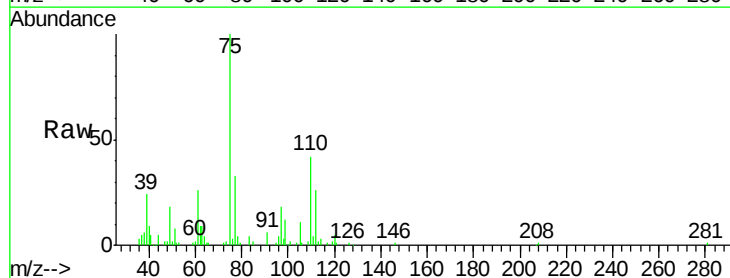
RT: 11.79 min Scan# 1132

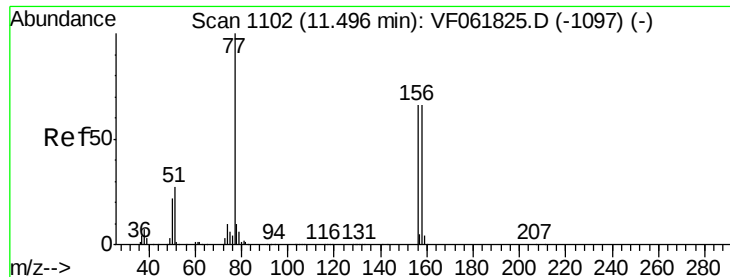
Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Tgt Ion	75	Resp	35834
Ion	Ratio	Lower	Upper
75	100		
77	33.3	18.1	54.4





#77

Bromobenzene

Concen: 22.214 ug/l

RT: 11.48 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBS01

Tot Ion:156 Resp: 73126

Ion Ratio Lower Upper

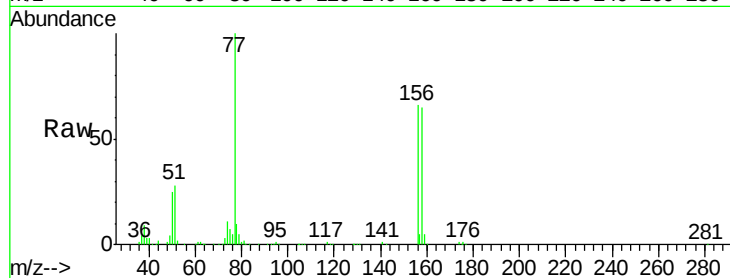
156 100

77 152.5 75.7 227.1

158 98.8 50.0 150.1

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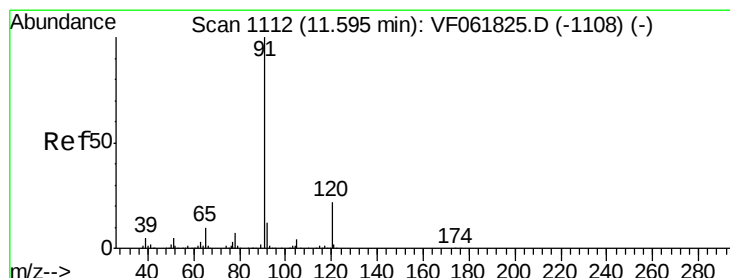
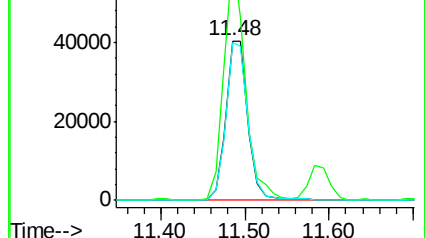
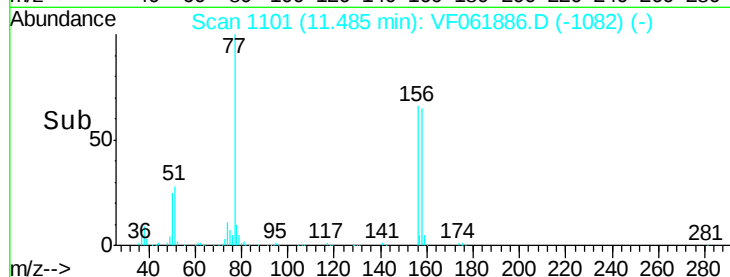
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Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 23.719 ug/l

RT: 11.58 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF061886.D

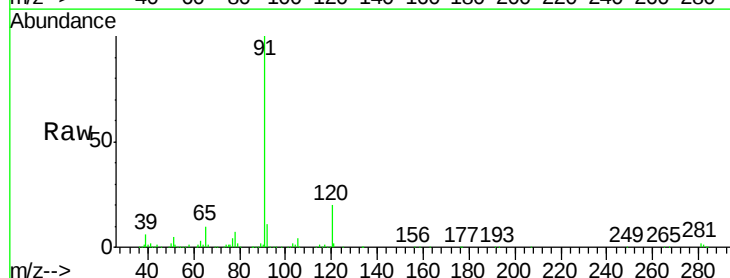
Acq: 11 Mar 2019 13:36

Tgt Ion: 91 Resp: 366384

Ion Ratio Lower Upper

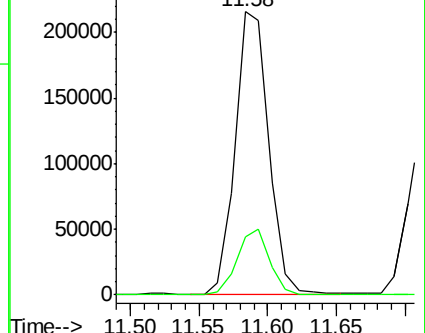
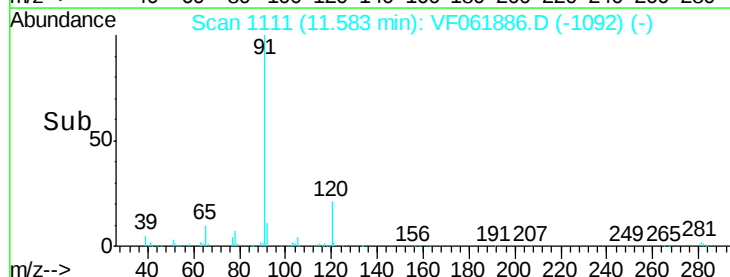
91 100

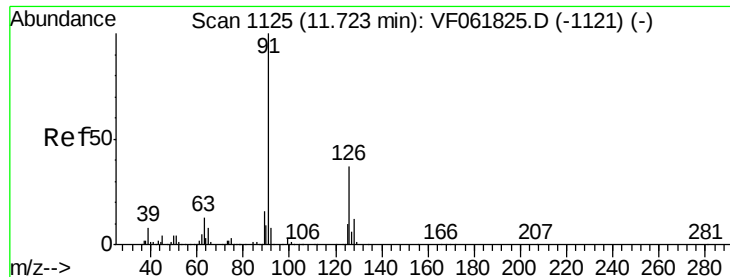
120 20.5 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





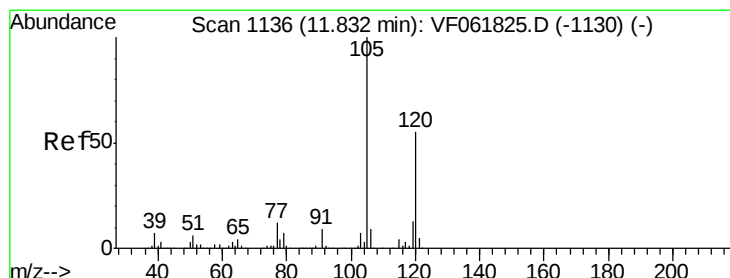
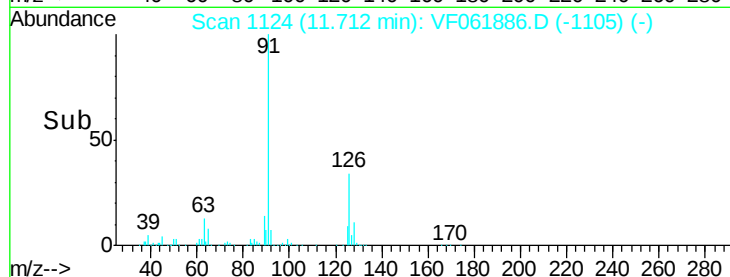
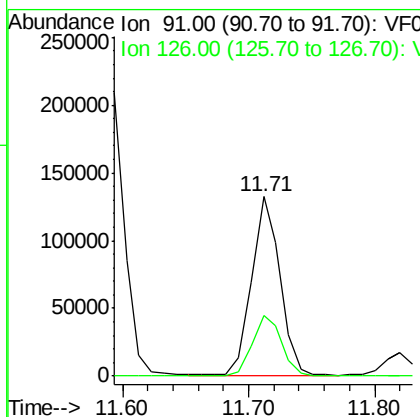
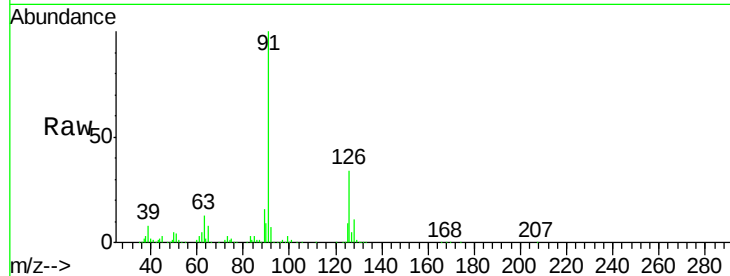
#79
 2-Chlorotoluene
 Concen: 23.376 ug/l
 RT: 11.71 min Scan# 1124
 Delta R.T. -0.01 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0311SBS01

Tot Ion: 91 Resp: 206434
 Ion Ratio Lower Upper
 91 100
 126 34.0 18.1 54.4

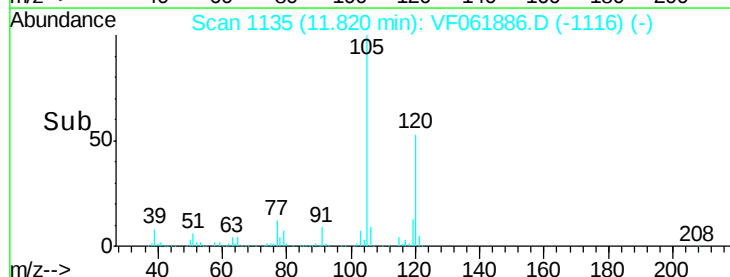
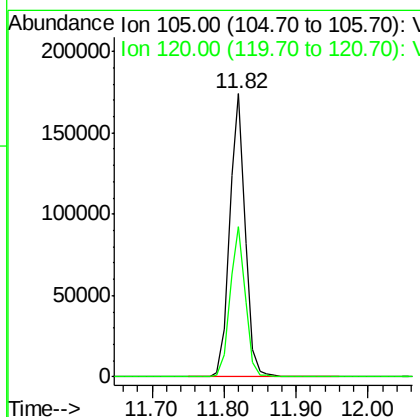
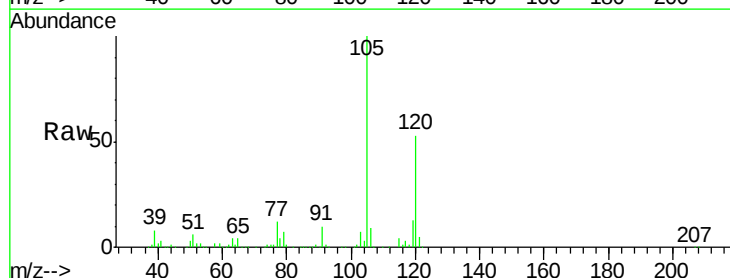
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#80
 1,3,5-Trimethylbenzene
 Concen: 23.611 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. -0.01 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Tgt Ion: 105 Resp: 259291
 Ion Ratio Lower Upper
 105 100
 120 52.9 27.4 82.2





#81

trans-1,4-Dichloro-2-butene

Concen: 22.127 ug/l m

RT: 11.86 min Scan# 1139

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

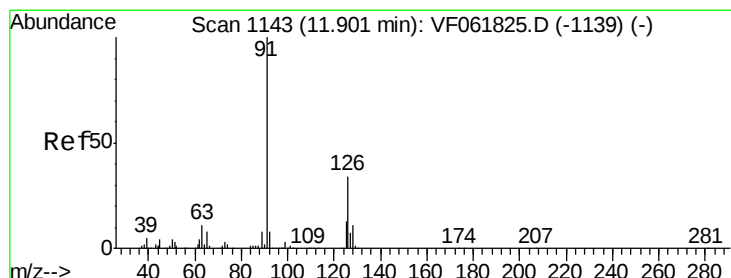
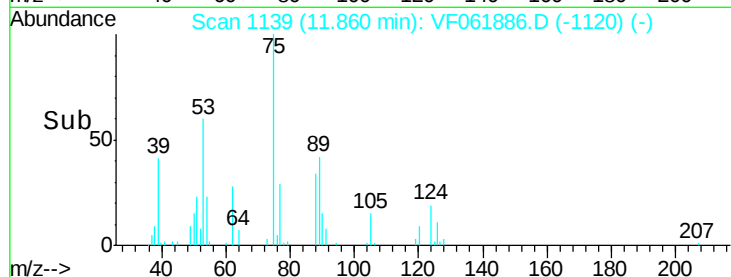
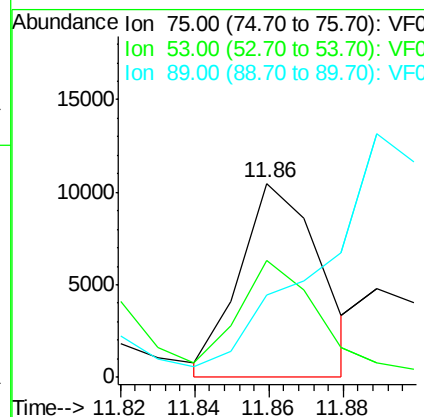
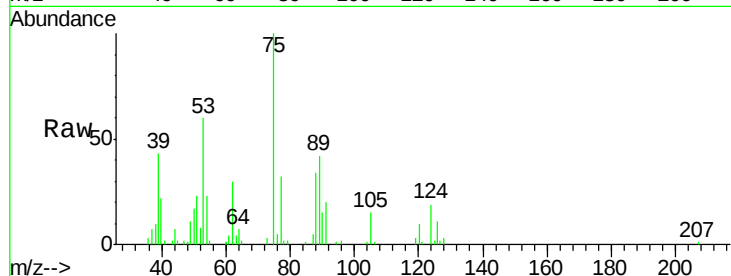
ClientSampleId :

VF0311SBSD01

Tot Ion:	75	Resp:	15699
Ion	Ratio	Lower	Upper
75	100		
53	60.1	58.6	88.0
89	42.3	41.4	62.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 23.372 ug/l

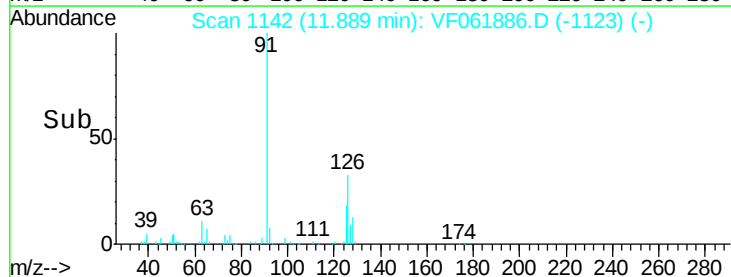
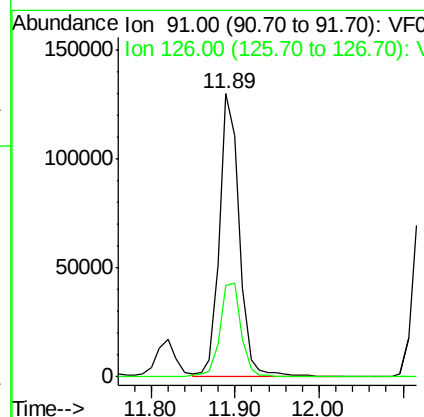
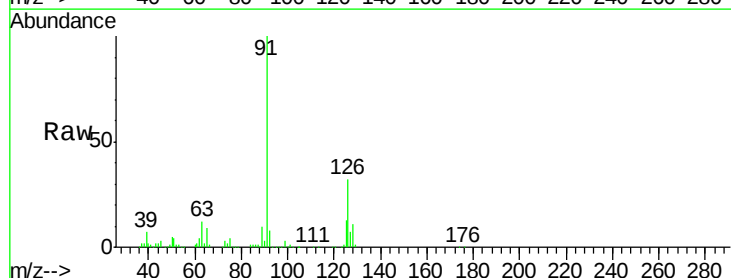
RT: 11.89 min Scan# 1142

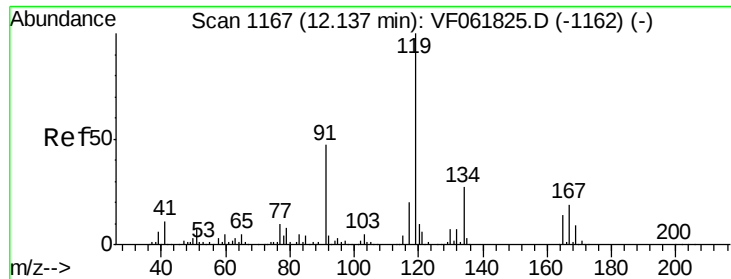
Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Tgt Ion:	91	Resp:	211120
Ion	Ratio	Lower	Upper
91	100		
126	32.2	17.0	50.9





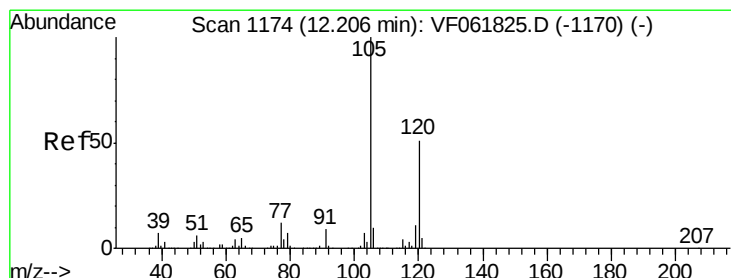
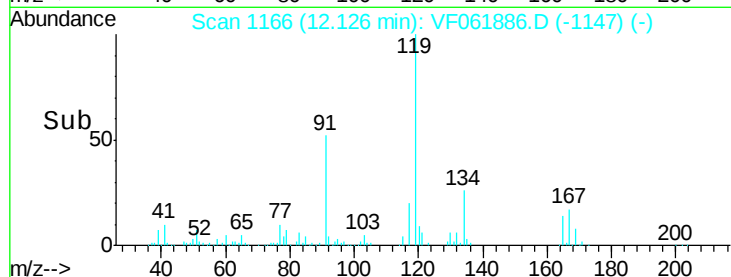
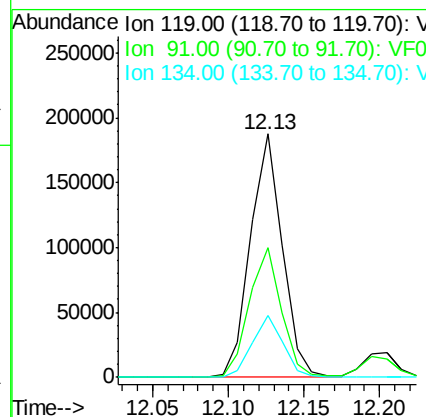
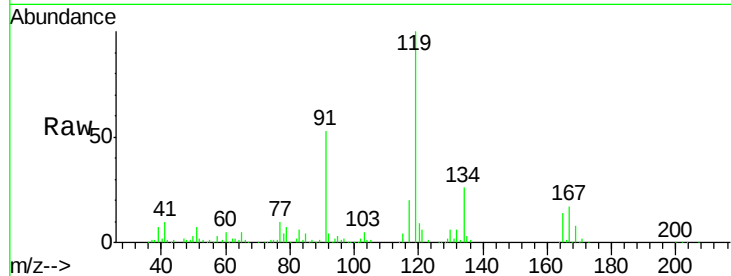
#83
tert-Butylbenzene
Concen: 23.859 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	53.3	23.5	70.5
134	25.6	13.3	39.8

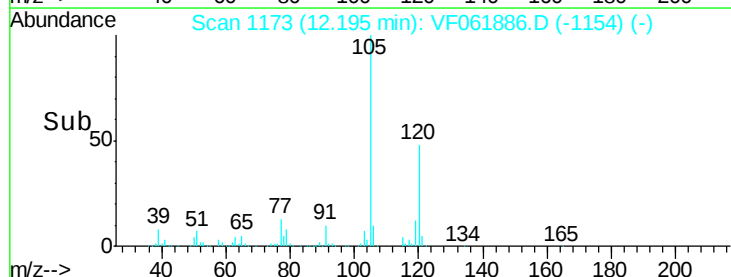
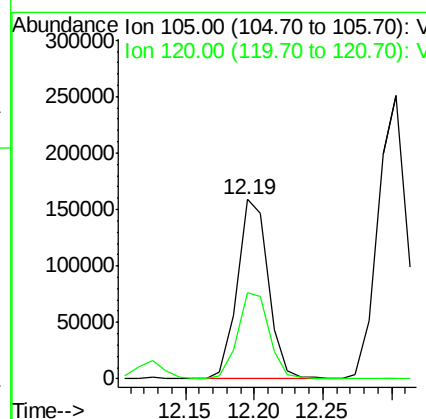
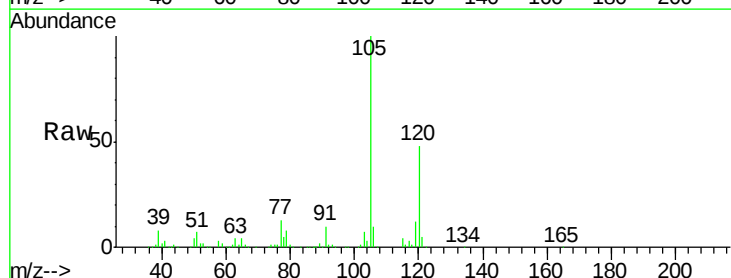
Manual Integrations
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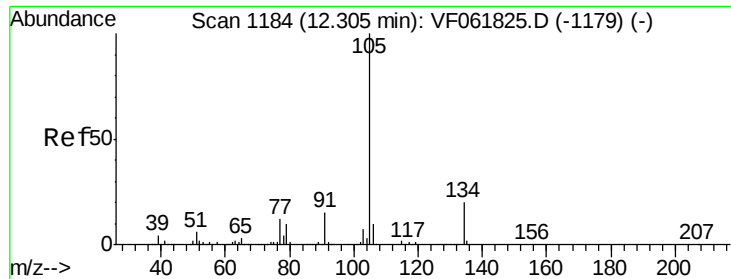
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#84
1,2,4-Trimethylbenzene
Concen: 23.097 ug/l
RT: 12.19 min Scan# 1173
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.3	25.8	77.4





#85

sec-Butylbenzene

Concen: 24.521 ug/l

RT: 12.30 min Scan# 1184

Delta R.T. -0.00 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

Instrument :

MSVOA_F

ClientSampleId :

VF0311SBS01

Tot Ion:105 Resp: 372110

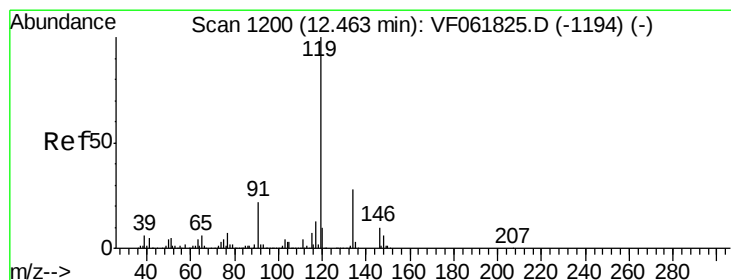
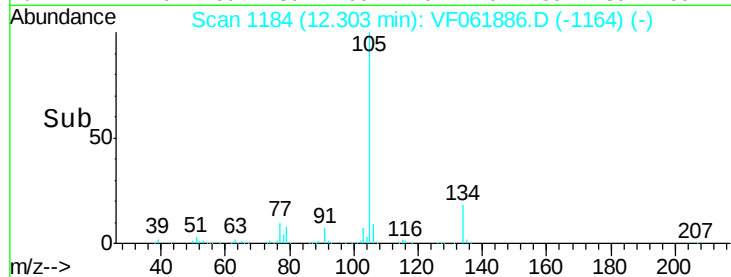
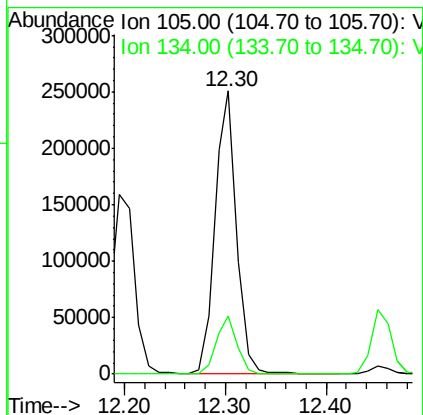
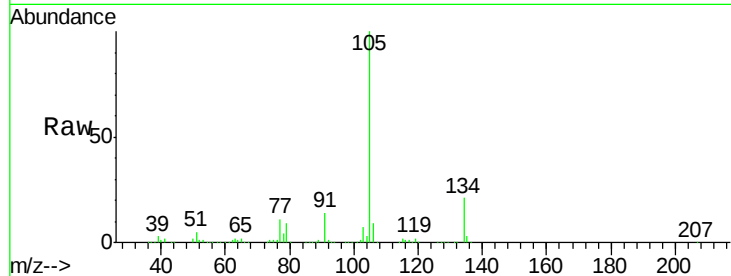
Ion Ratio Lower Upper

105 100

134 20.5 9.8 29.5

Manual Integrations
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#86

p-Isopropyltoluene

Concen: 23.467 ug/l

RT: 12.45 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VF061886.D

Acq: 11 Mar 2019 13:36

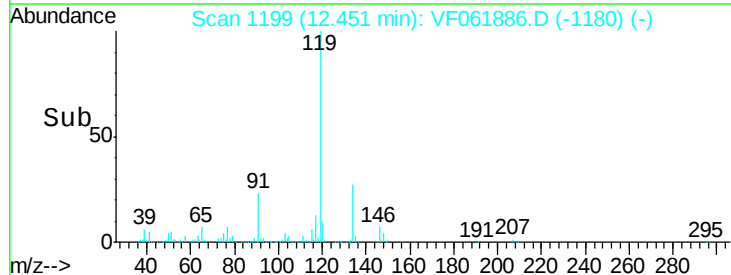
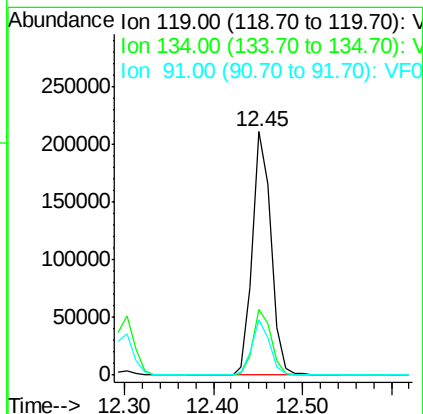
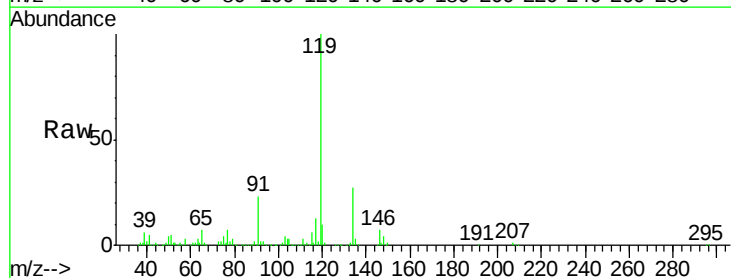
Tgt Ion:119 Resp: 302696

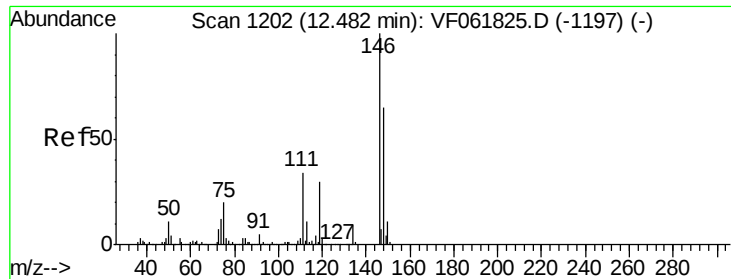
Ion Ratio Lower Upper

119 100

134 27.1 14.0 42.0

91 23.0 11.1 33.3





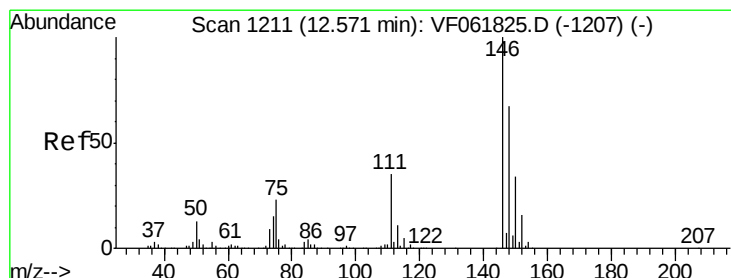
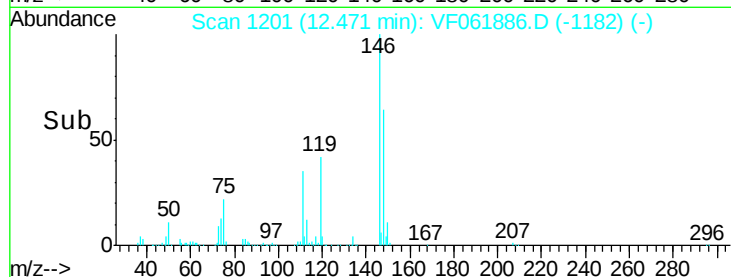
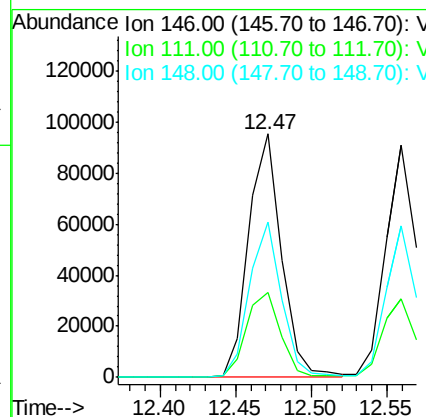
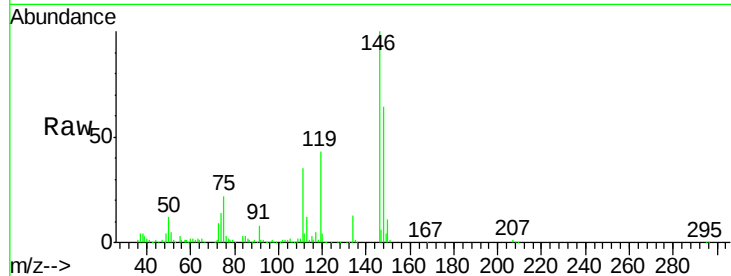
#87
 1,3-Dichlorobenzene
 Concen: 23.173 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.0	17.0	51.0
148	63.7	32.5	97.5

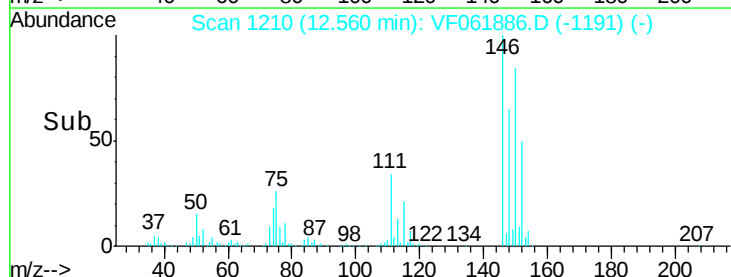
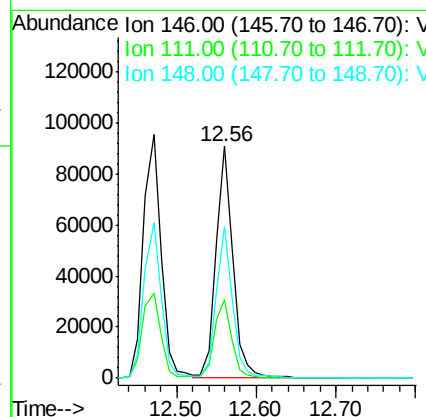
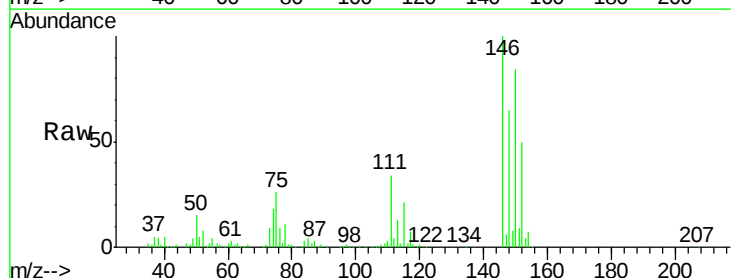
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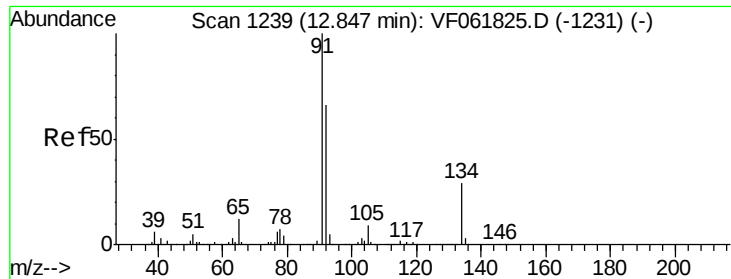
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#88
 1,4-Dichlorobenzene
 Concen: 22.798 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.9	17.6	52.9
148	65.5	33.5	100.4





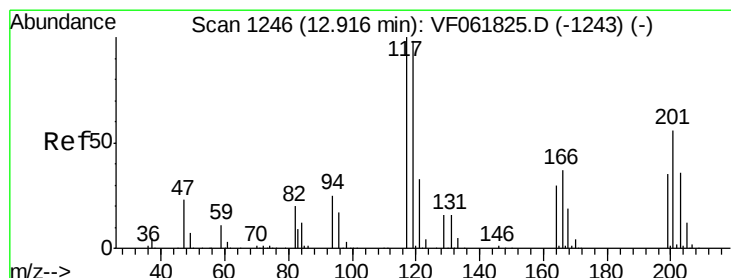
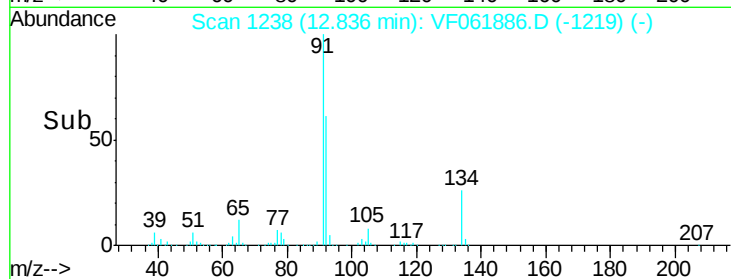
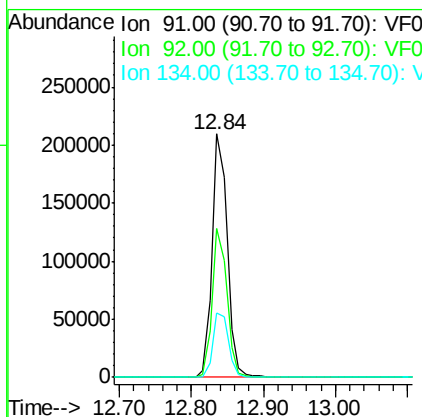
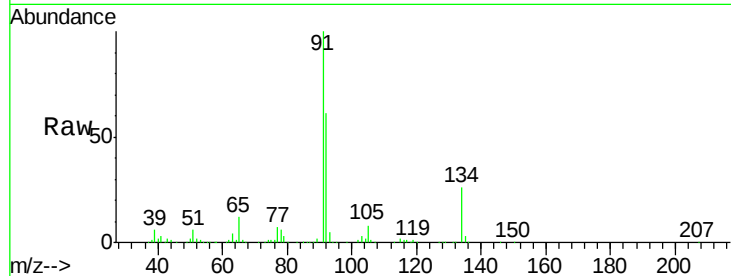
#89
n-Butylbenzene
Concen: 24.564 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.01 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.3	32.9	98.6
134	26.5	14.5	43.6

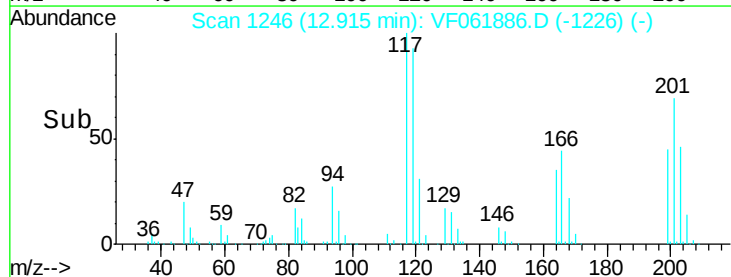
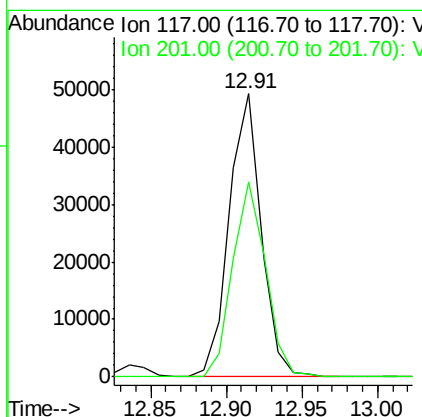
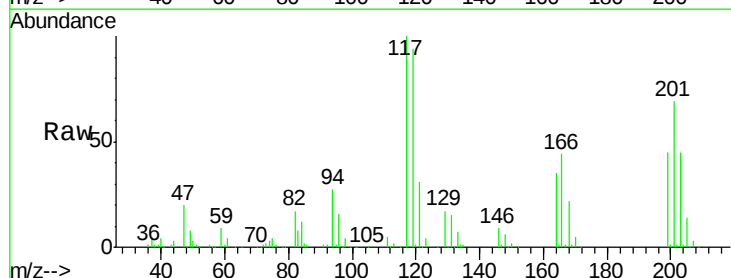
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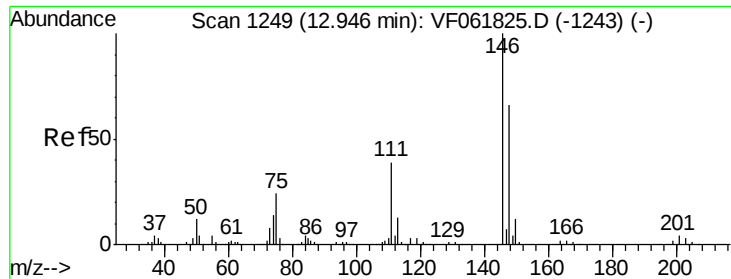
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#90
Hexachloroethane
Concen: 23.390 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.7	27.8	83.4





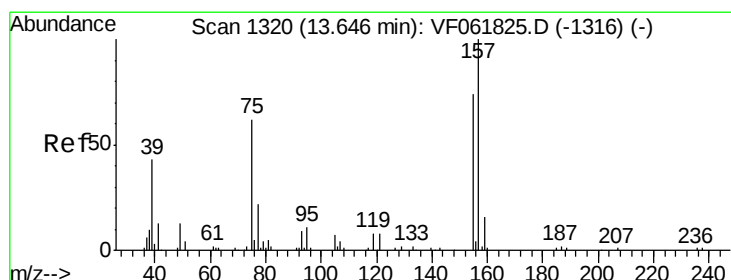
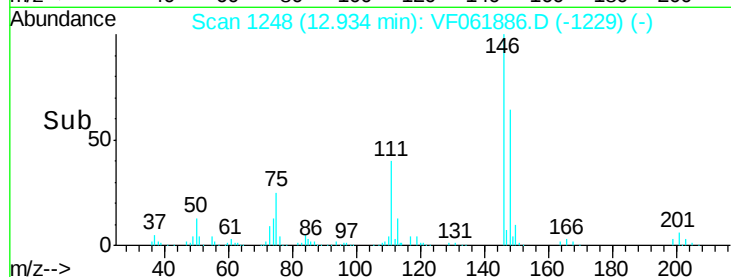
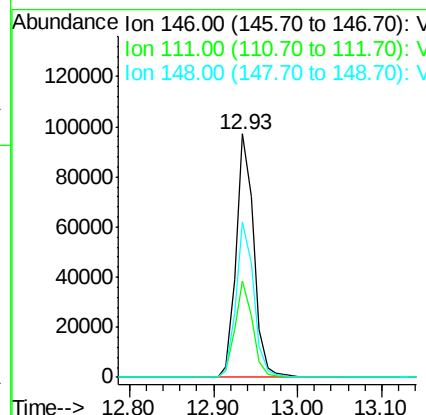
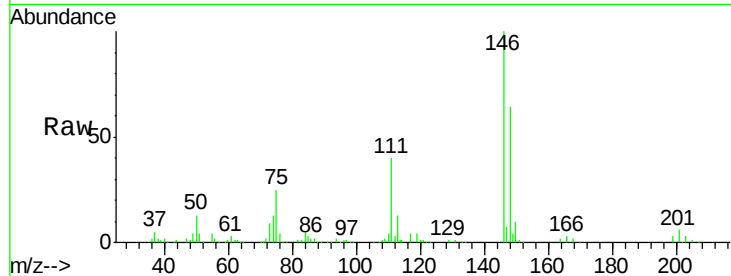
#91
 1,2-Dichlorobenzene
 Concen: 24.064 ug/l
 RT: 12.93 min Scan# 1248
 Delta R.T. -0.01 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0311SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.4	58.4
148	63.9	33.0	98.9

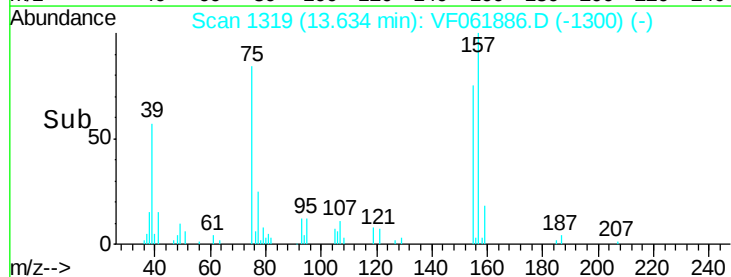
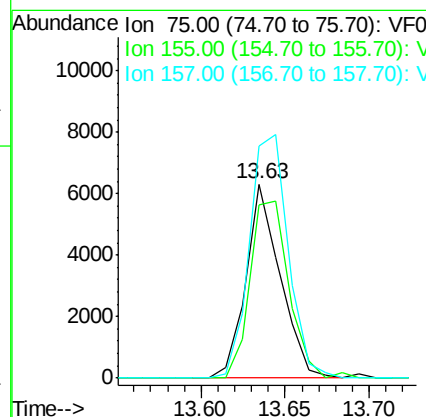
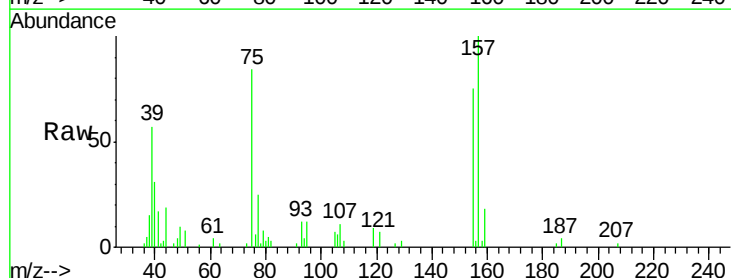
Manual Integrations
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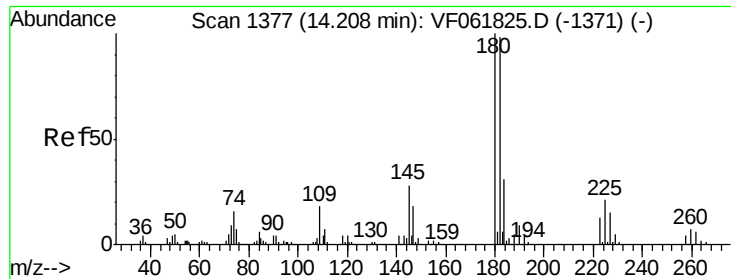
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 24.635 ug/l
 RT: 13.63 min Scan# 1319
 Delta R.T. -0.01 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.3	59.8	179.4
157	119.8	81.2	243.4





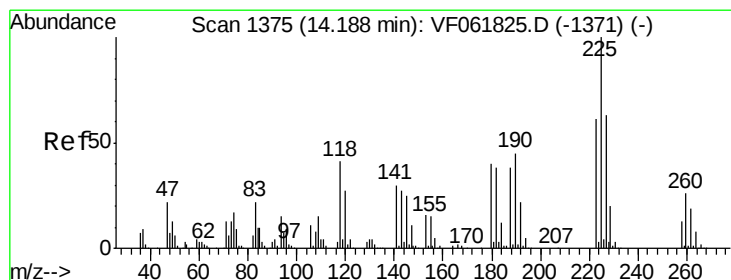
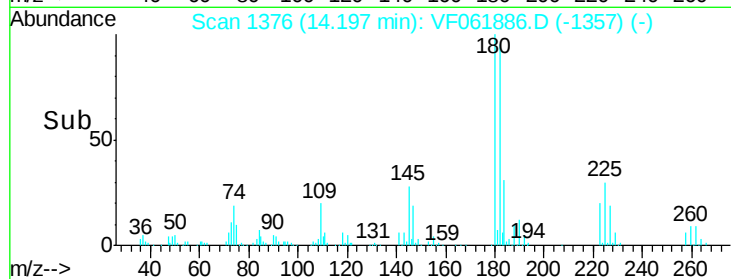
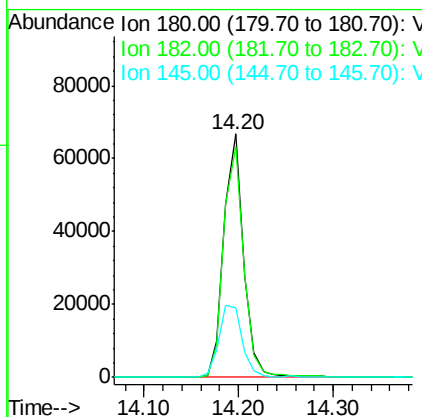
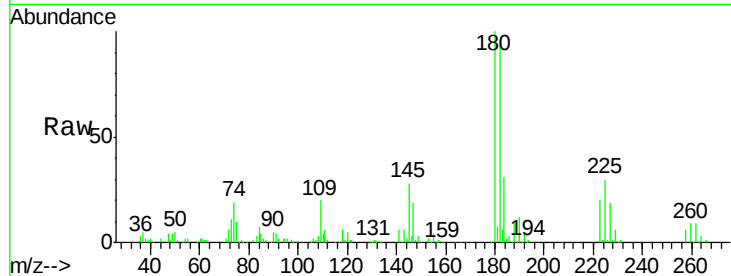
#93
 1,2,4-Trichlorobenzene
 Concen: 23.383 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0311SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	97080		
182	95.0	49.0	147.2	
145	28.3	14.1	42.4	

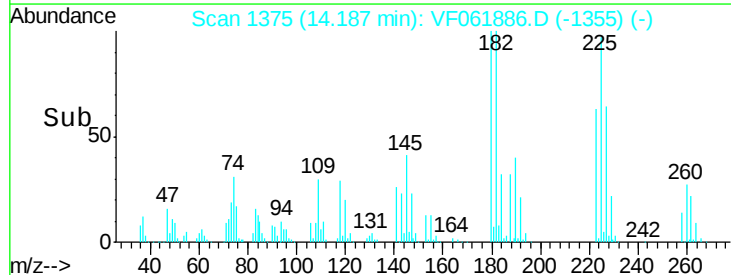
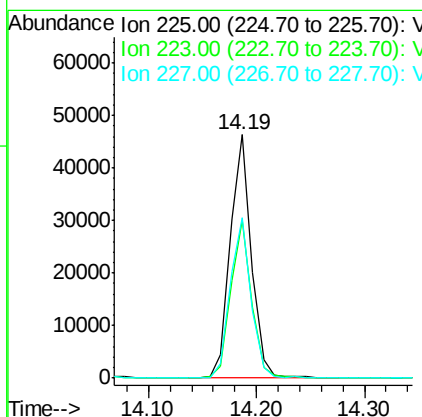
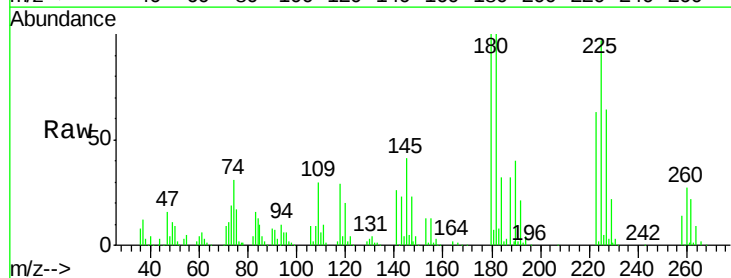
Manual Integrations
 APPROVED

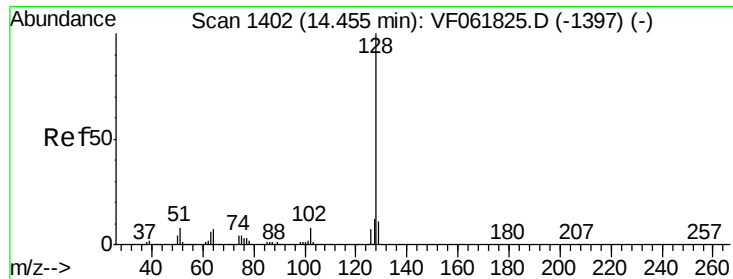
MMDadoda
 3/12/2019 4:36:55 PM



#94
 Hexachlorobutadiene
 Concen: 21.938 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061886.D
 Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	63055		
223	64.9	30.3	90.9	
227	66.0	31.3	93.8	





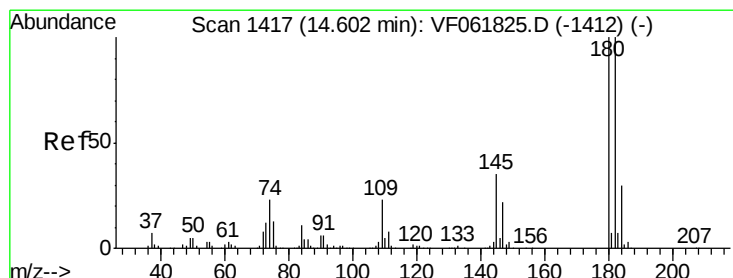
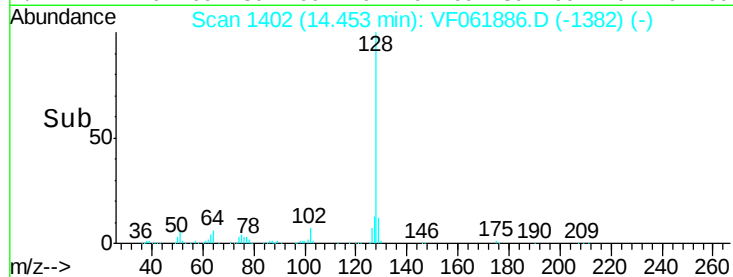
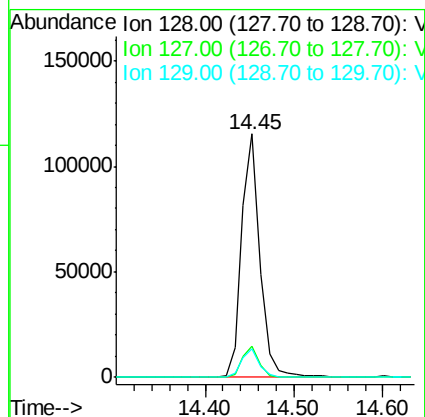
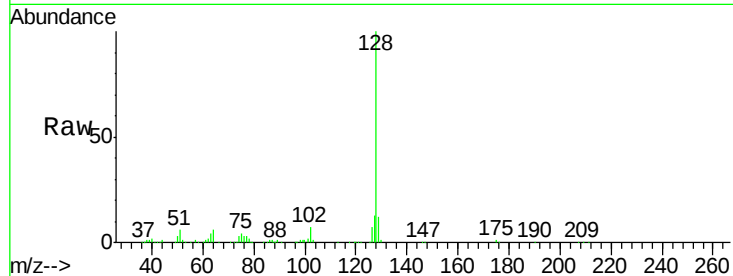
#95
Naphthalene
Concen: 22.479 ug/l
RT: 14.45 min Scan# 1402
Delta R.T. -0.00 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Instrument :
MSVOA_F
ClientSampleId :
VF0311SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	166226		
127	12.9		9.3	13.9
129	12.0		8.8	13.2

Manual Integrations
APPROVED

MMDadoda
3/12/2019 4:36:55 PM



#96
1,2,3-Trichlorobenzene
Concen: 23.138 ug/l
RT: 14.60 min Scan# 1417
Delta R.T. -0.00 min
Lab File: VF061886.D
Acq: 11 Mar 2019 13:36

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	88699		
182	96.6		50.2	150.7
145	28.7		17.5	52.5

