

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122718\
 Data File : VF061205.D
 Acq On : 27 Dec 2018 13:47
 Operator : VA/AP
 Sample : VF1227SBSD01
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/28/2018 9:38:23 AM

Quant Time: Dec 27 14:35:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.84	168	190859	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	5.57	114	324088	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	294663	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	147700	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.82	65	125881	51.28	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	102.56%	
35) Dibromofluoromethane	4.08	113	136335	52.51	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	105.02%	
50) Toluene-d8	7.54	98	361496	49.14	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	98.28%	
62) 4-Bromofluorobenzene	11.39	95	171815	50.66	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	101.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	84004	19.800	ug/l	94
3) Chloromethane	1.10	50	54099	22.260	ug/l	98
4) Vinyl Chloride	1.13	62	50500	22.400	ug/l	97
5) Bromomethane	1.32	94	29394	18.798	ug/l	90
6) Chloroethane	1.37	64	21897	21.079	ug/l #	87
7) Trichlorofluoromethane	1.49	101	93456m	21.711	ug/l	
8) Diethyl Ether	1.62	74	12158	20.625	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.82	101	45694	20.473	ug/l	92
10) Methyl Iodide	1.89	142	73927m	21.013	ug/l	
11) Tert butyl alcohol	2.57	59	11099	112.043	ug/l	96
12) 1,1-Dichloroethene	1.78	96	34598	20.564	ug/l	96
13) Acrolein	1.99	56	8629m	120.550	ug/l	
14) Allyl chloride	2.08	41	46582	26.606	ug/l	96
15) Acrylonitrile	2.92	53	24804	108.283	ug/l #	84
16) Acetone	2.22	43	54187	110.420	ug/l	97
17) Carbon Disulfide	1.83	76	106181m	20.884	ug/l	
18) Methyl Acetate	2.33	43	24768m	24.395	ug/l	
19) Methyl tert-butyl Ether	2.42	73	77254	20.687	ug/l	98
20) Methylene Chloride	2.23	84	37805m	21.552	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	37412	20.791	ug/l	93
22) Diisopropyl ether	2.78	45	127867	21.925	ug/l	94
23) Vinyl Acetate	3.17	43	290364	107.924	ug/l	100
24) 1,1-Dichloroethane	2.85	63	76524	22.146	ug/l	98
25) 2-Butanone	4.32	43	84844	106.604	ug/l	94
26) 2,2-Dichloropropane	3.57	77	46612	23.506	ug/l	94
27) cis-1,2-Dichloroethene	3.45	96	55915	20.297	ug/l	95
28) Bromochloromethane	3.70	49	38888	22.180	ug/l	99
29) Tetrahydrofuran	4.05	42	36692	113.271	ug/l	94
30) Chloroform	3.84	83	108270	20.897	ug/l	97
31) Cyclohexane	3.67	56	73752	20.569	ug/l	95
32) 1,1,1-Trichloroethane	4.07	97	72743	23.424	ug/l #	92
36) 1,1-Dichloropropene	4.25	75	78978	20.189	ug/l	96
37) Ethyl Acetate	4.08	43	32833	19.420	ug/l #	84
38) Carbon Tetrachloride	3.97	117	64098	21.516	ug/l	91

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	74827	21.321	ug/l	96
40) Benzene	4.61	78	182627	21.708	ug/l	100
41) Methacrylonitrile	4.73	41	18592	22.504	ug/l	95
42) 1,2-Dichloroethane	4.91	62	63047	19.728	ug/l	97
43) Isopropyl Acetate	6.94	43	37773	19.997	ug/l	97
44) Trichloroethene	5.48	130	55572	20.952	ug/l	94
45) 1,2-Dichloropropane	6.21	63	45603	19.924	ug/l	99
46) Dibromomethane	6.07	93	29722	20.022	ug/l	90
47) Bromodichloromethane	6.36	83	78173	20.267	ug/l	91
48) Methyl methacrylate	6.70	41	26992	20.469	ug/l #	80
49) 1,4-Dioxane	6.69	88	4056	423.909	ug/l #	80
51) 4-Methyl-2-Pentanone	8.24	43	141088	108.911	ug/l	98
52) Toluene	7.61	92	107830	19.363	ug/l	95
53) t-1,3-Dichloropropene	8.26	75	64833	20.836	ug/l	100
54) cis-1,3-Dichloropropene	7.28	75	81445	20.855	ug/l	97
55) 1,1,2-Trichloroethane	8.47	97	33895	20.303	ug/l	94
56) Ethyl methacrylate	8.60	69	36795	20.369	ug/l	95
57) 1,3-Dichloropropane	8.83	76	62495	20.698	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.27	63	24323	70.107	ug/l	94
59) 2-Hexanone	9.47	43	100383	107.151	ug/l	98
60) Dibromochloromethane	8.69	129	48157	20.123	ug/l	95
61) 1,2-Dibromoethane	8.97	107	36244	20.328	ug/l	99
64) Tetrachloroethene	8.13	164	46298	20.425	ug/l	98
65) Chlorobenzene	9.78	112	128969	21.186	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.90	131	49727	19.990	ug/l	98
67) Ethyl Benzene	9.87	91	238772	21.530	ug/l	100
68) m/p-Xylenes	10.11	106	169607	43.458	ug/l	94
69) o-Xylene	10.69	106	92765	21.431	ug/l	99
70) Styrene	10.77	104	133700	22.680	ug/l	99
71) Bromoform	10.75	173	24228	21.051	ug/l #	95
73) Isopropylbenzene	11.11	105	283355	22.262	ug/l	97
74) N-amyl acetate	11.35	43	65321	23.116	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.68	83	47182	22.335	ug/l	98
76) 1,2,3-Trichloropropane	11.78	75	33944	21.592	ug/l	95
77) Bromobenzene	11.48	156	58744	21.440	ug/l	85
78) n-propylbenzene	11.58	91	347410	21.113	ug/l	98
79) 2-Chlorotoluene	11.70	91	191713	21.957	ug/l	96
80) 1,3,5-Trimethylbenzene	11.81	105	225136	21.481	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.86	75	19999	29.605	ug/l	93
82) 4-Chlorotoluene	11.89	91	193648	21.439	ug/l	97
83) tert-Butylbenzene	12.11	119	233774	21.676	ug/l	98
84) 1,2,4-Trimethylbenzene	12.19	105	227629	21.780	ug/l	99
85) sec-Butylbenzene	12.29	105	318491	22.629	ug/l	98
86) p-Isopropyltoluene	12.45	119	269772	23.092	ug/l	97
87) 1,3-Dichlorobenzene	12.46	146	114921	22.772	ug/l	97
88) 1,4-Dichlorobenzene	12.55	146	106144	21.097	ug/l	99
89) n-Butylbenzene	12.82	91	276877	20.733	ug/l	94
90) Hexachloroethane	12.90	117	62943	21.808	ug/l	92
91) 1,2-Dichlorobenzene	12.92	146	107662	21.980	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.62	75	7271	18.757	ug/l	87

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ClientSampleId :
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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	73949	21.288	ug/l	94
94) Hexachlorobutadiene	14.18	225	47671	21.546	ug/l	100
95) Naphthalene	14.44	128	130671	20.600	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	68321	21.275	ug/l	98

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

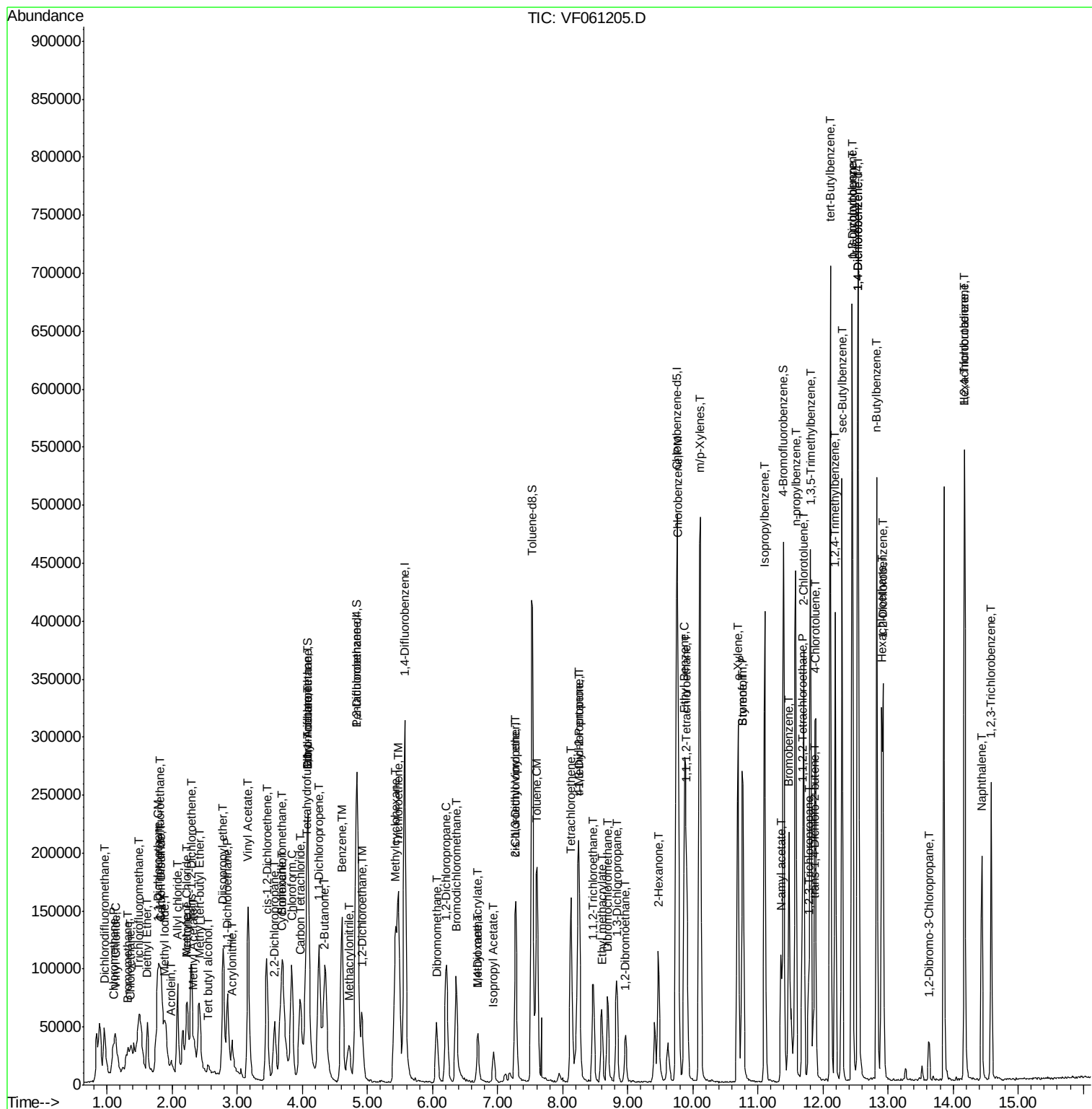
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Data File : VF061205.D
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Operator : VA/AP
Sample : VF1227SBS01
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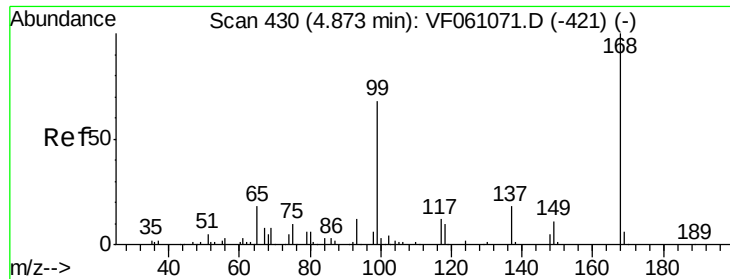
Instrument :
MSVOA_F
Client Sample Id :
VF1227SBS01

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.03 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion:168 Resp: 190859

Ion Ratio Lower Upper

168 100

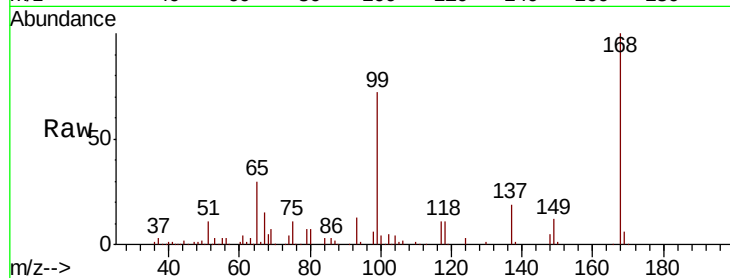
99 71.6 54.4 81.6

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.84

60000

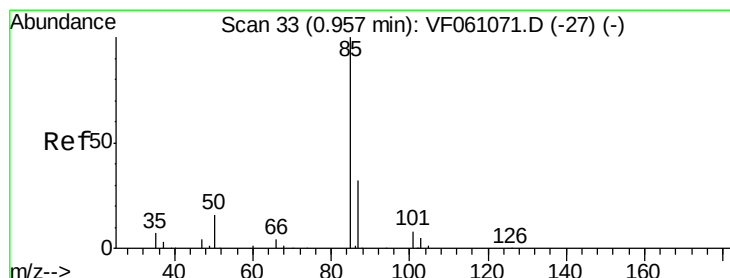
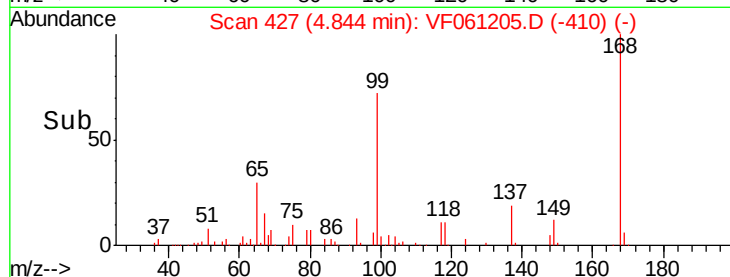
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 19.800 ug/l

RT: 0.96 min Scan# 33

Delta R.T. 0.00 min

Lab File: VF061205.D

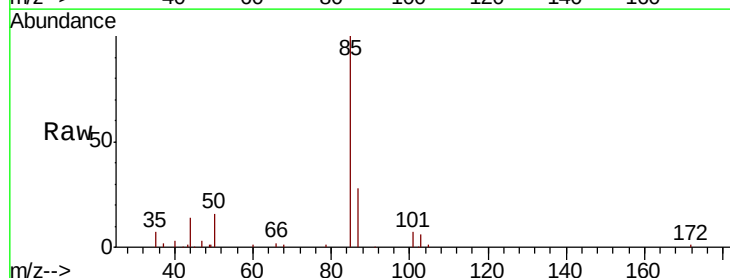
Acq: 27 Dec 2018 13:47

Tgt Ion: 85 Resp: 84004

Ion Ratio Lower Upper

85 100

87 28.1 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

30000

25000

20000

15000

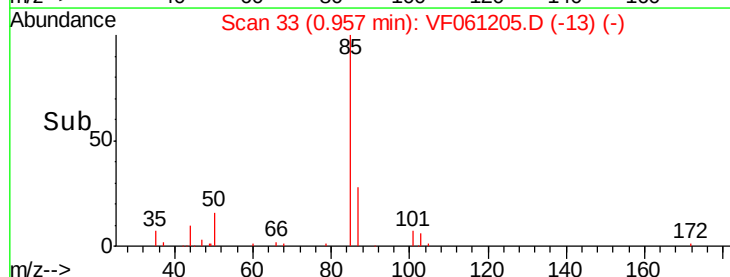
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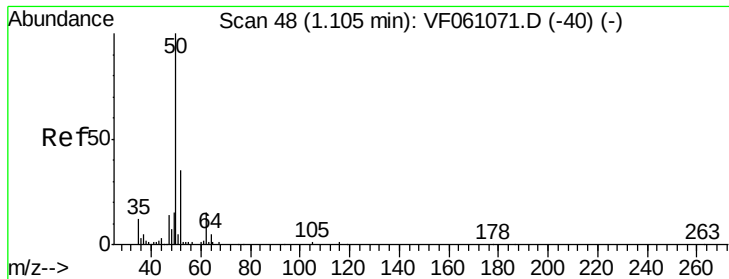
5000

0

Time-->

0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 22.260 ug/l

RT: 1.10 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 50 Resp: 54099

Ion Ratio Lower Upper

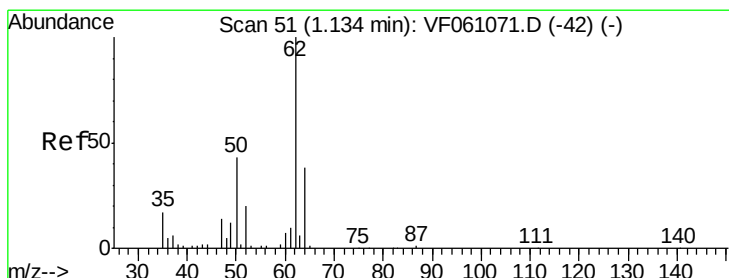
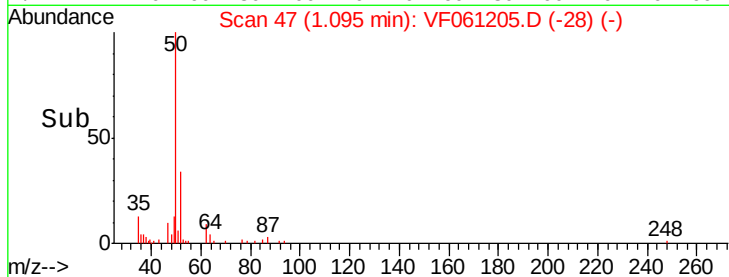
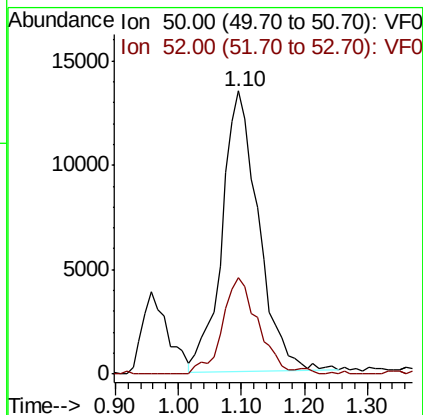
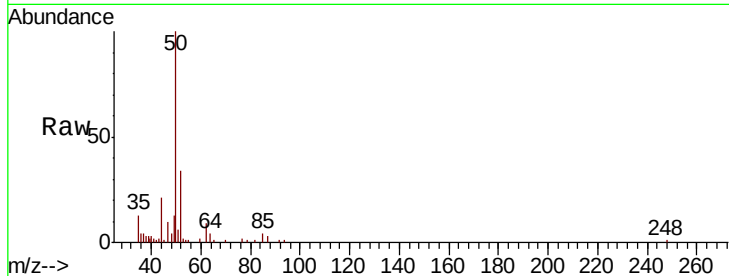
50 100

52 34.3 26.3 39.5

Manual Integrations
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#4

Vinyl Chloride

Concen: 22.400 ug/l

RT: 1.13 min Scan# 51

Delta R.T. 0.00 min

Lab File: VF061205.D

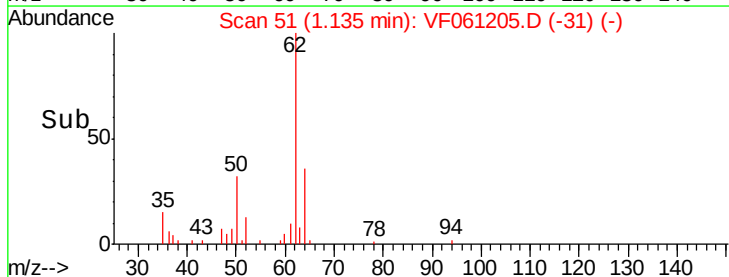
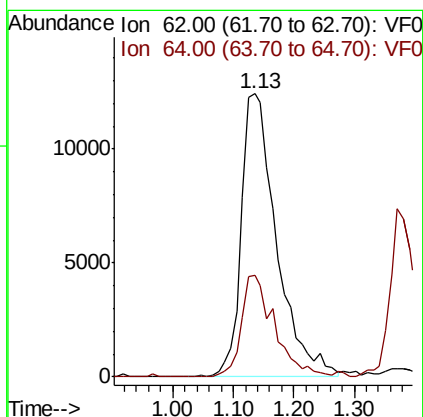
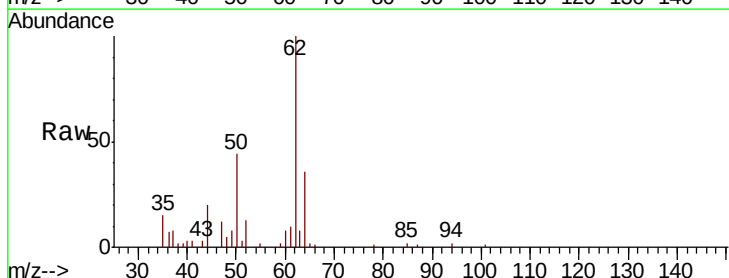
Acq: 27 Dec 2018 13:47

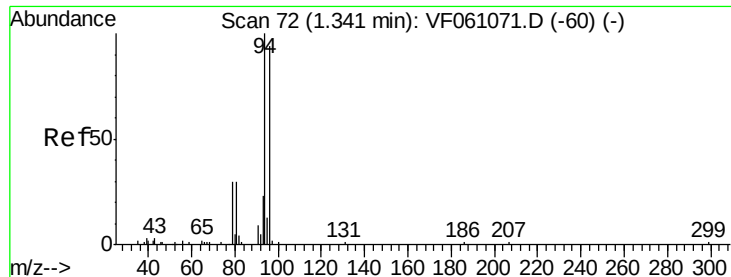
Tgt Ion: 62 Resp: 50500

Ion Ratio Lower Upper

62 100

64 35.9 30.4 45.6





#5

Bromomethane

Concen: 18.798 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 94 Resp: 29394

Ion Ratio Lower Upper

94 100

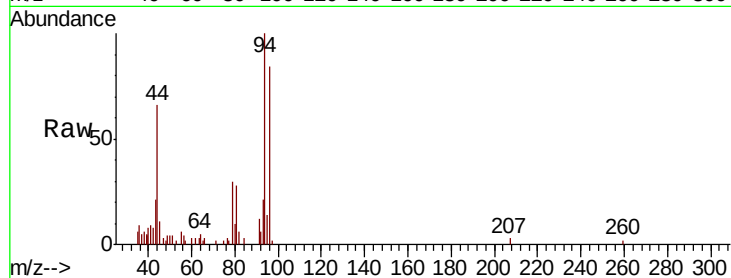
96 83.8 74.4 111.6

Manual Integrations

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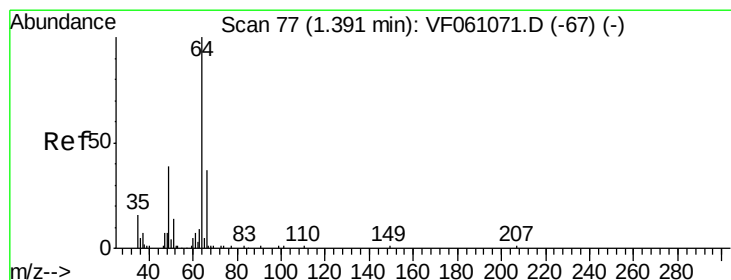
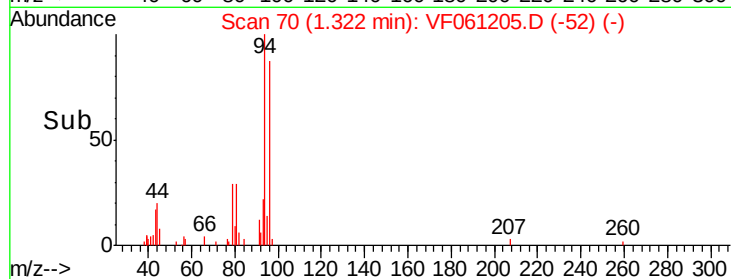
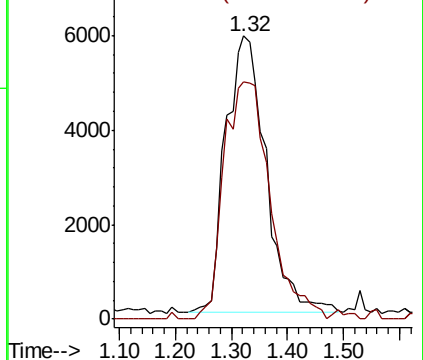
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 21.079 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.02 min

Lab File: VF061205.D

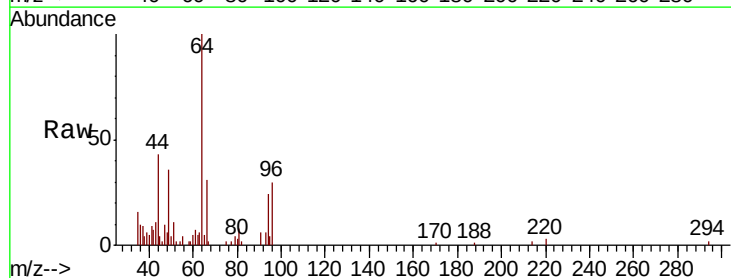
Acq: 27 Dec 2018 13:47

Tgt Ion: 64 Resp: 21897

Ion Ratio Lower Upper

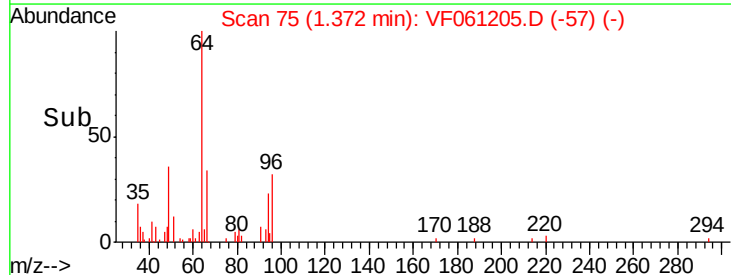
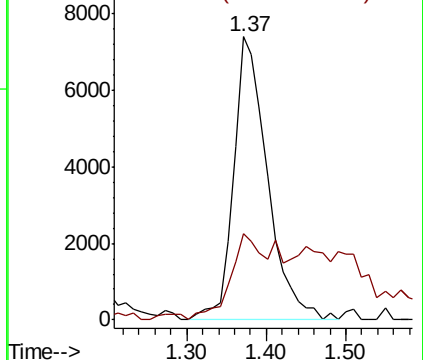
64 100

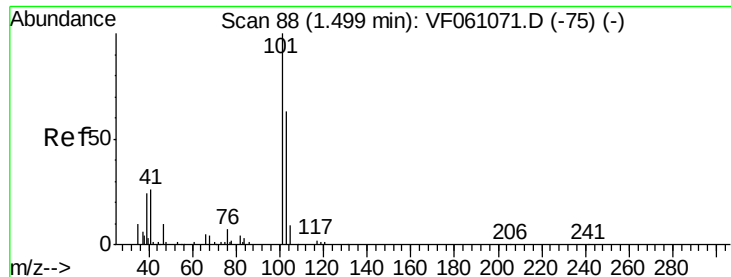
66 30.6 30.9 46.3#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

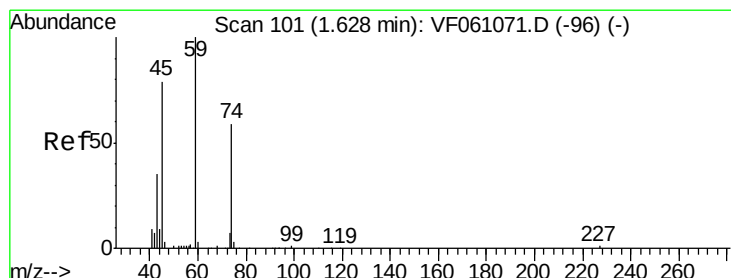
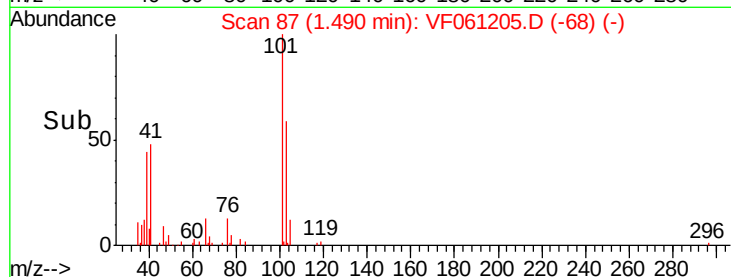
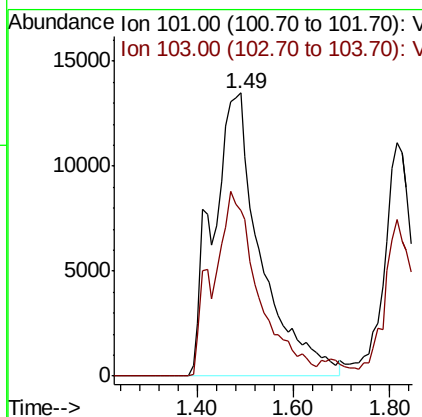
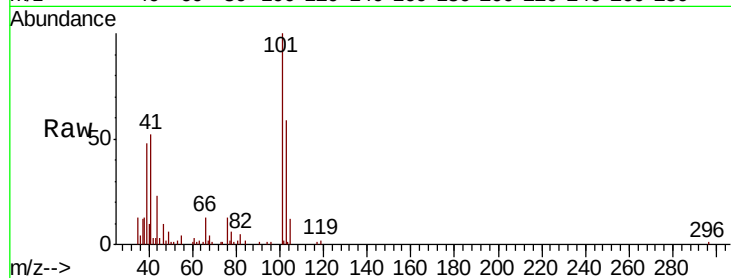
Trichlorofluoromethane
 Concen: 21.711 ug/l m
 RT: 1.49 min Scan# 87
 Delta R.T. -0.01 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	58.6	50.7	76.1

Manual Integrations
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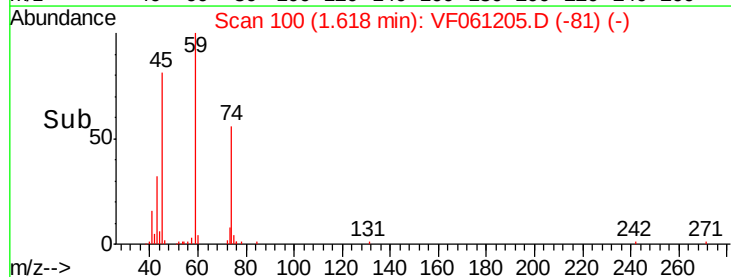
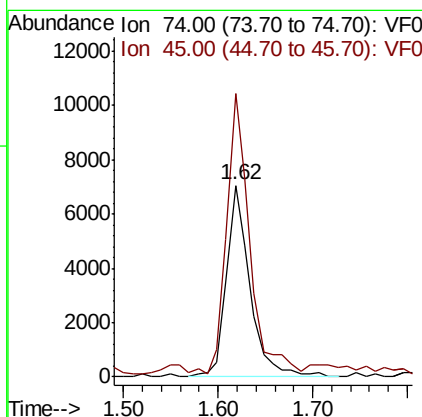
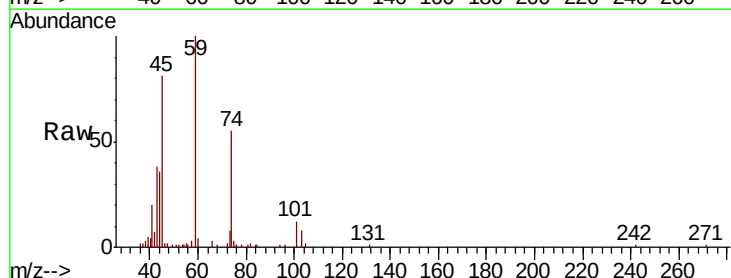
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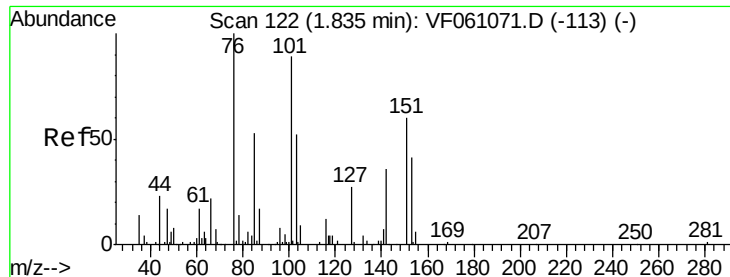


#8

Diethyl Ether
 Concen: 20.625 ug/l
 RT: 1.62 min Scan# 100
 Delta R.T. -0.01 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	147.9	67.8	203.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.473 ug/l

RT: 1.82 min Scan# 120

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

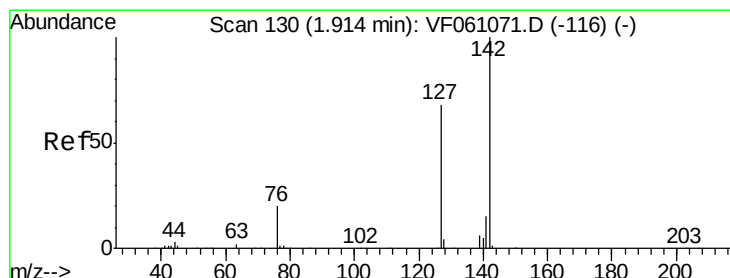
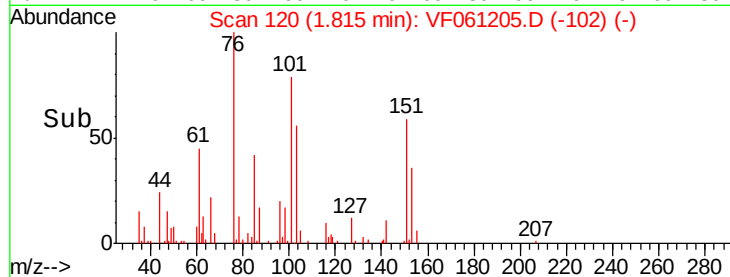
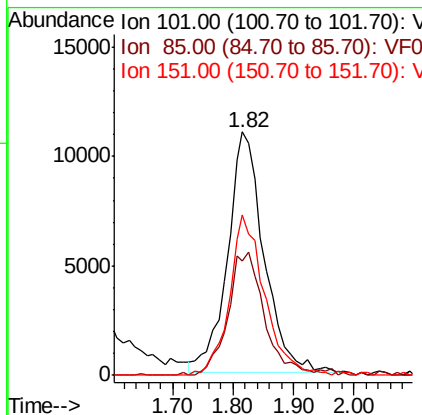
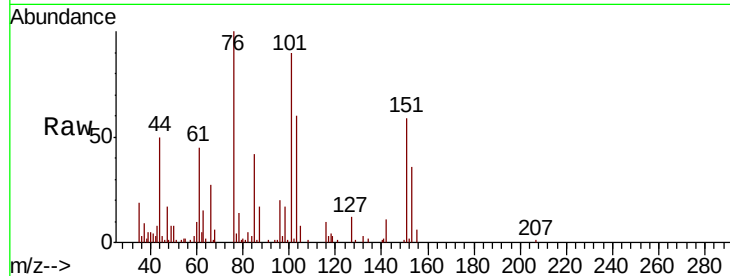
ClientSampleId :

VF1227SBS01

Tot Ion:	101	Resp:	45694
Ion Ratio	Lower	Upper	
101	100		
85	47.0	44.5	66.7
151	65.7	49.9	74.9

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#10

Methyl Iodide

Concen: 21.013 ug/l m

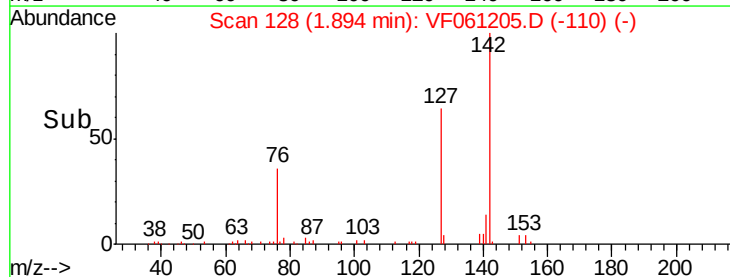
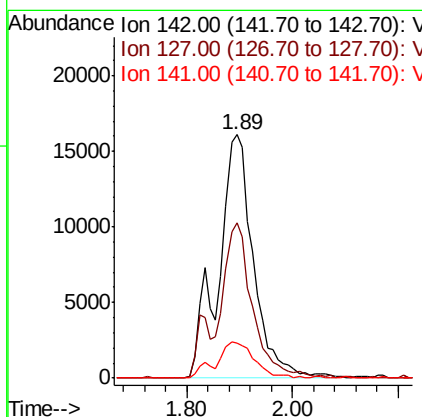
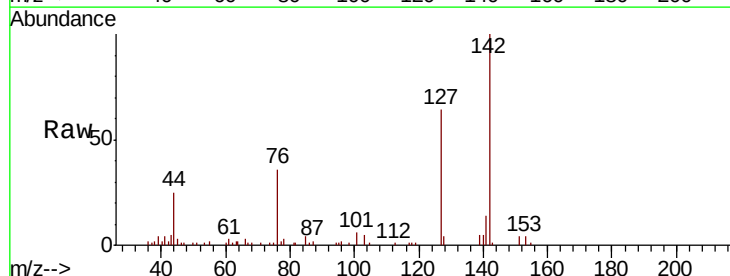
RT: 1.89 min Scan# 128

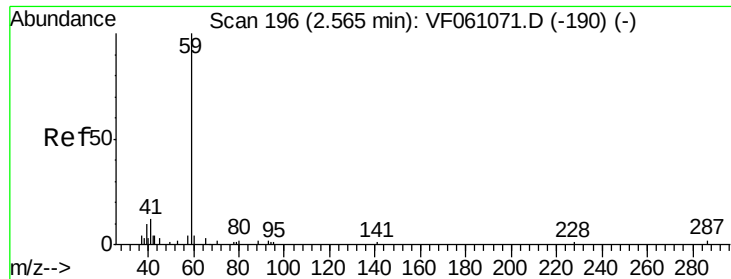
Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tgt Ion:	142	Resp:	73927
Ion Ratio	Lower	Upper	
142	100		
127	63.6	54.7	82.1
141	14.5	12.2	18.2





#11

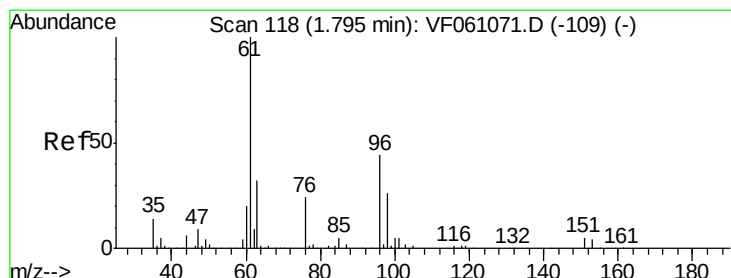
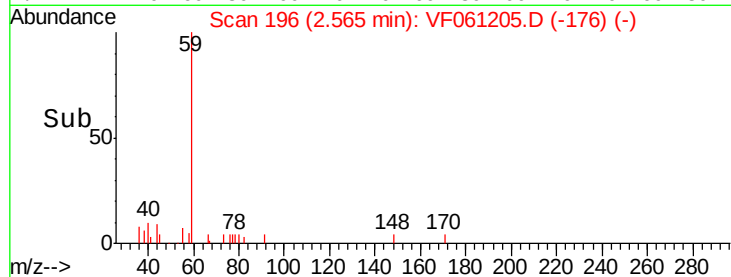
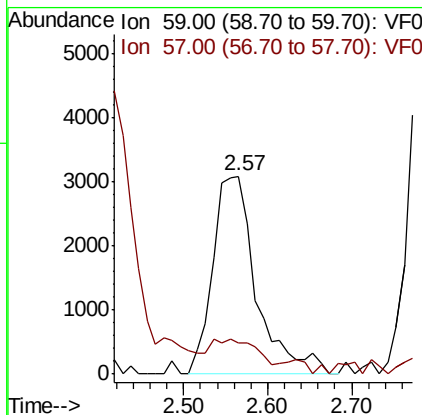
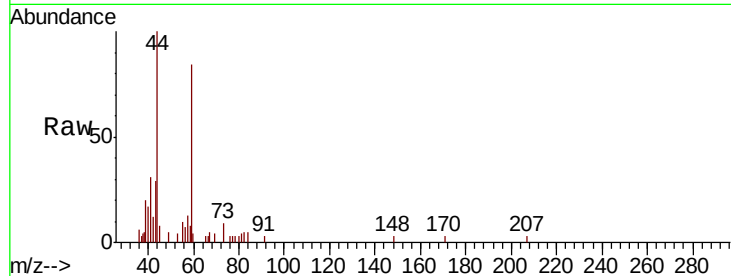
Tert butyl alcohol
Concen: 112.043 ug/l
RT: 2.57 min Scan# 196
Delta R.T. 0.00 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	59	Resp	11099
Ion Ratio	100	Lower	Upper
57	16.0	11.5	17.3

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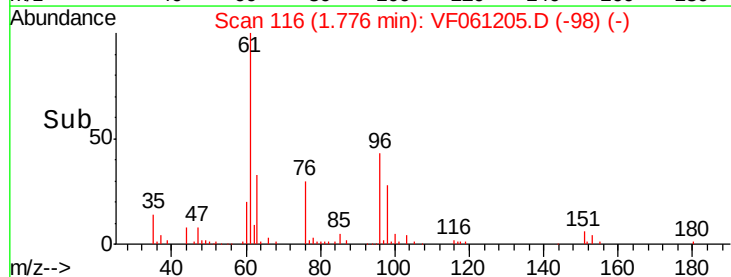
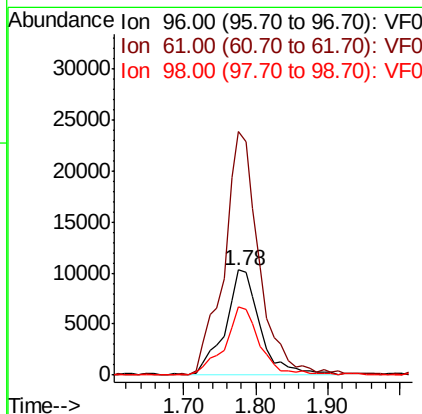
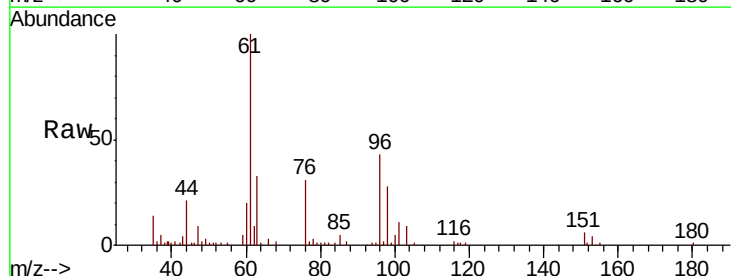
MMDadoda
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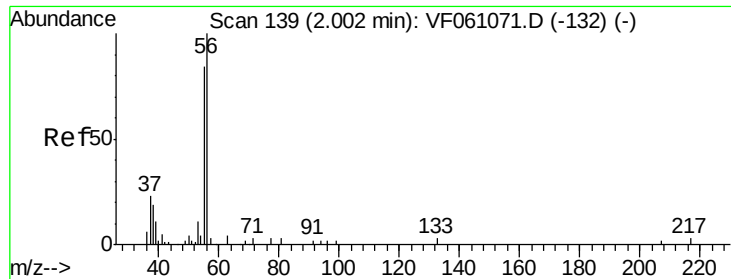


#12

1,1-Dichloroethene
Concen: 20.564 ug/l
RT: 1.78 min Scan# 116
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	96	Resp	34598
Ion Ratio	100	Lower	Upper
61	232.1	182.0	273.0
98	65.5	46.5	69.7





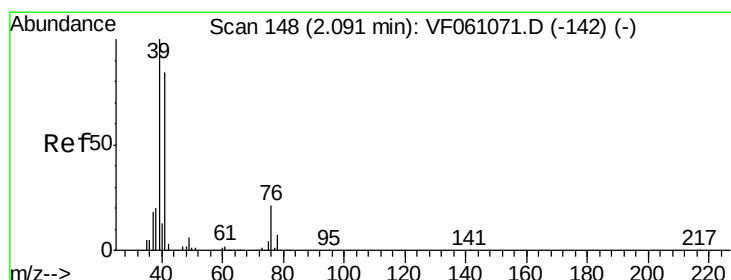
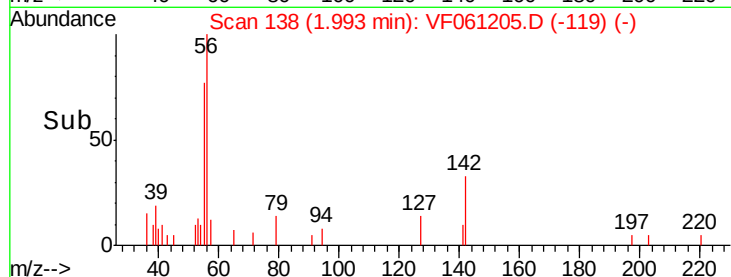
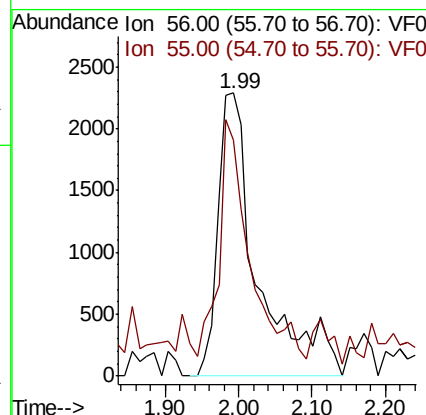
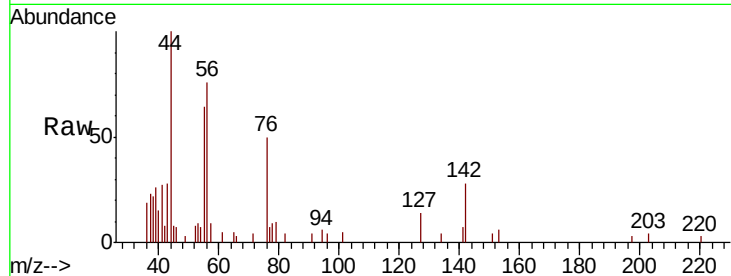
#13
Acrolein
Concen: 120.550 ug/l m
RT: 1.99 min Scan# 138
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
55	83.5	70.2	105.2

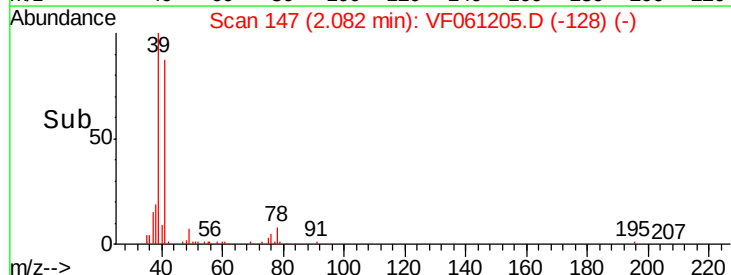
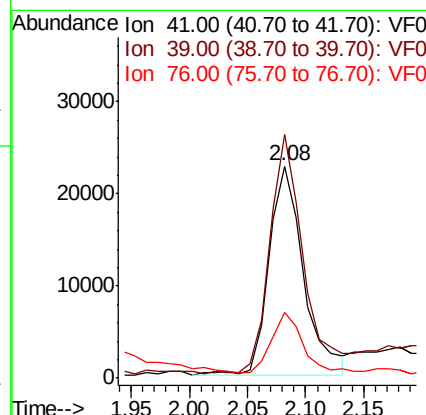
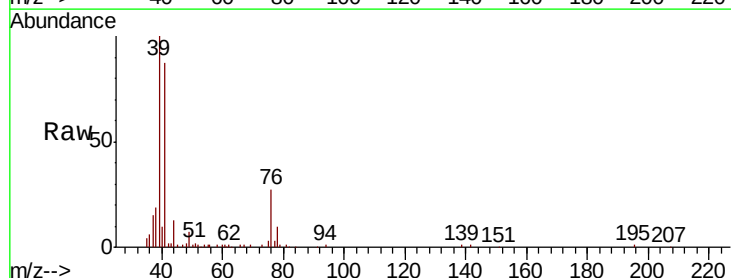
Manual Integrations
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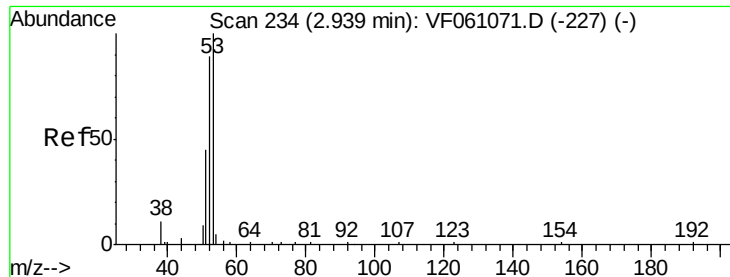
MMDadoda
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#14
Allyl chloride
Concen: 26.606 ug/l
RT: 2.08 min Scan# 147
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
41	100		
39	114.7	96.4	144.6
76	31.1	25.4	38.0





#15

Acrylonitrile

Concen: 108.283 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

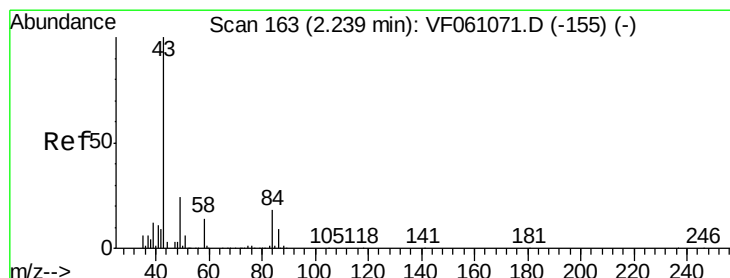
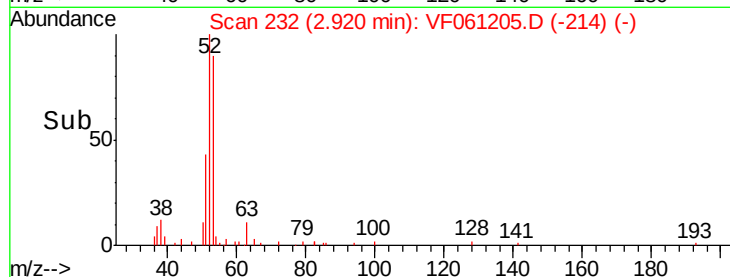
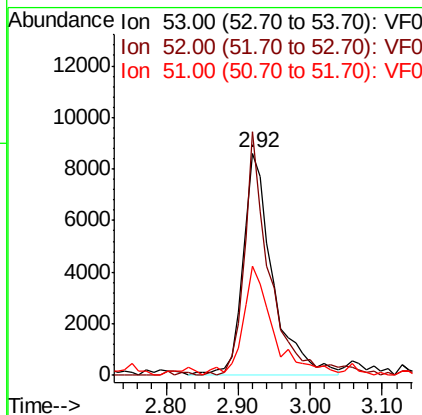
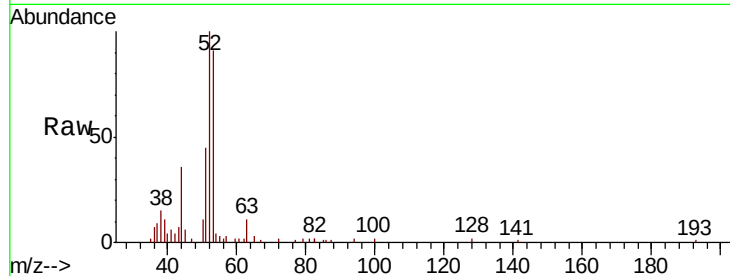
ClientSampleId :

VF1227SBS01

Tot Ion:	53	Resp:	24804
Ion	Ratio	Lower	Upper
53	100		
52	109.7	71.3	106.9#
51	49.0	36.8	55.2

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#16

Acetone

Concen: 110.420 ug/l

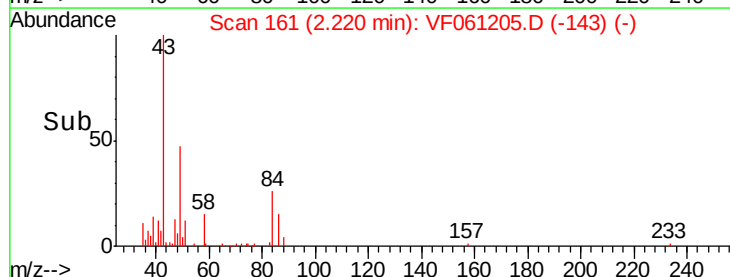
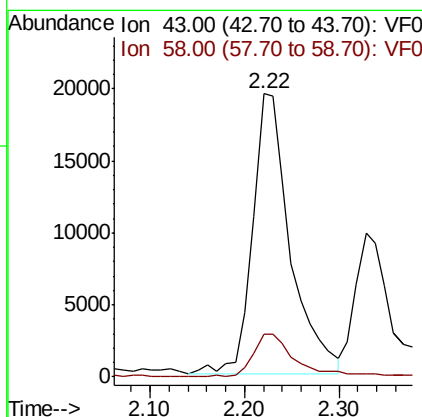
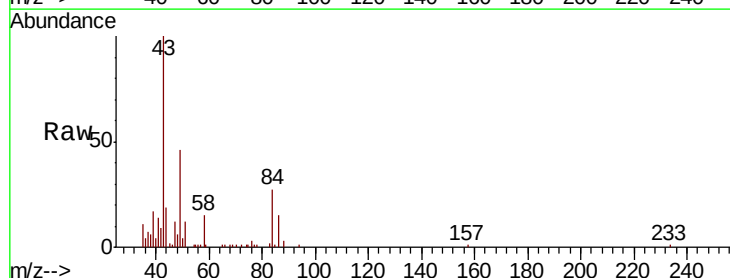
RT: 2.22 min Scan# 161

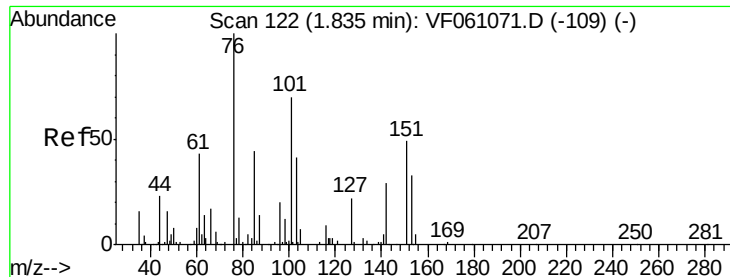
Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tgt Ion:	43	Resp:	54187
Ion	Ratio	Lower	Upper
43	100		
58	15.1	11.1	16.7





#17

Carbon Disulfide

Concen: 20.884 ug/l m

RT: 1.83 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 76 Resp: 106181

Ion Ratio Lower Upper

76 100

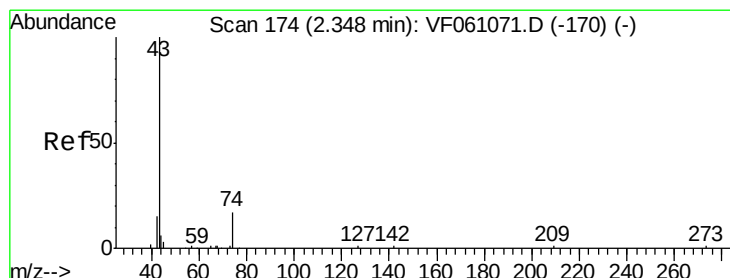
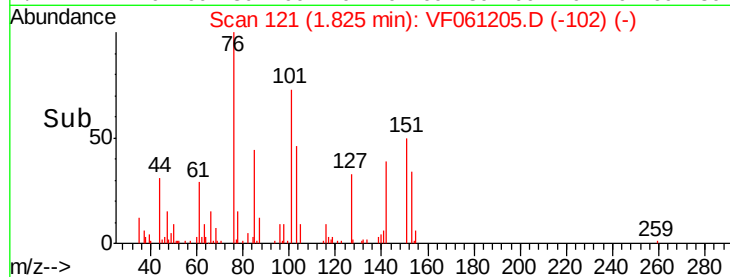
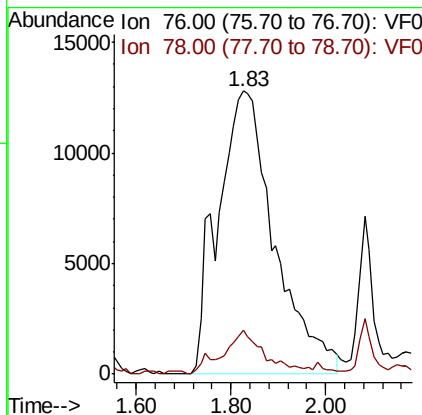
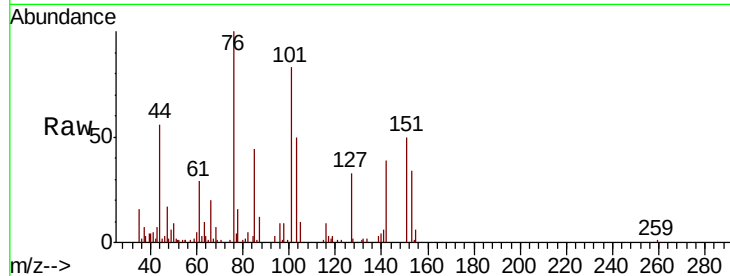
78 15.6 10.2 15.4#

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#18

Methyl Acetate

Concen: 24.395 ug/l m

RT: 2.33 min Scan# 172

Delta R.T. -0.02 min

Lab File: VF061205.D

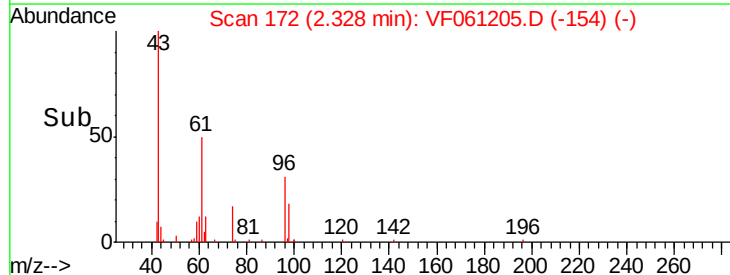
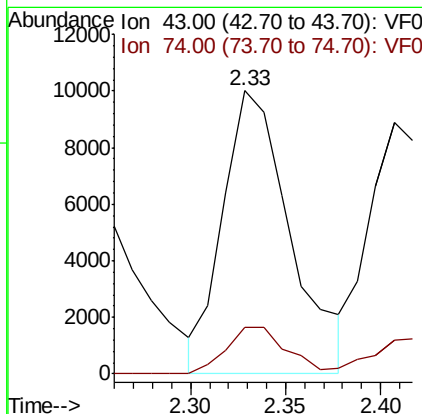
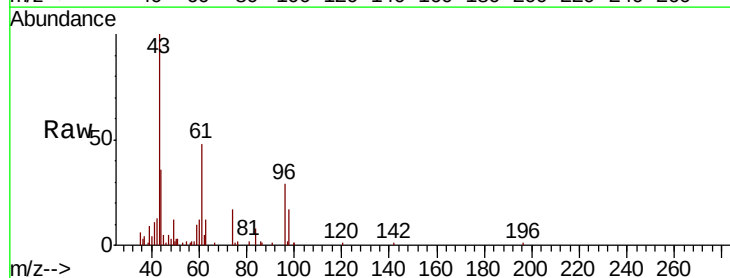
Acq: 27 Dec 2018 13:47

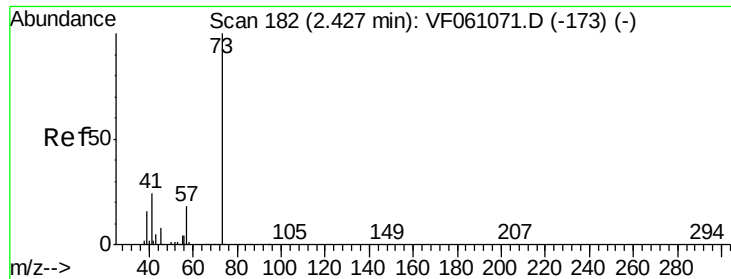
Tgt Ion: 43 Resp: 24768

Ion Ratio Lower Upper

43 100

74 16.6 11.0 16.6#





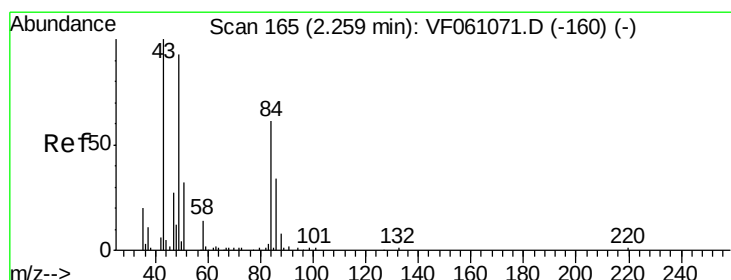
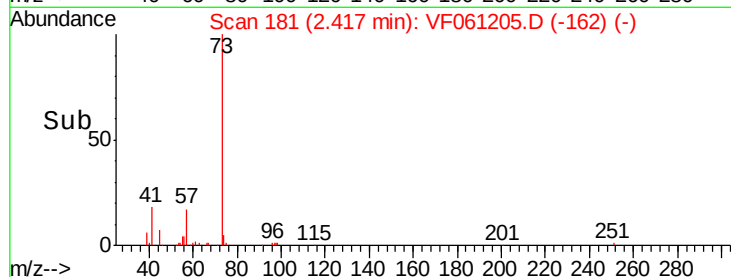
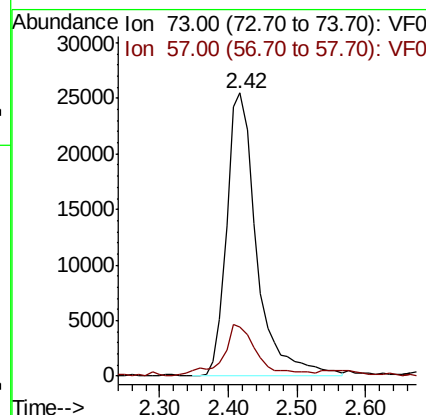
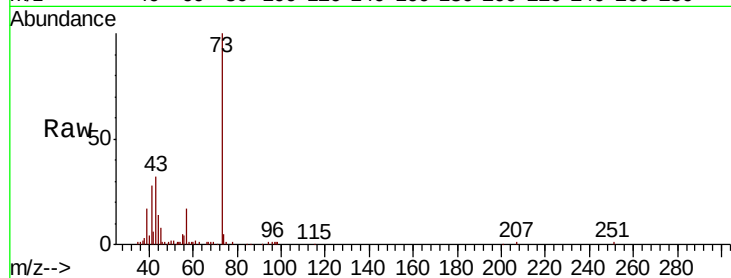
#19
Methyl tert-butyl Ether
Concen: 20.687 ug/l
RT: 2.42 min Scan# 181
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.3	14.5	21.7

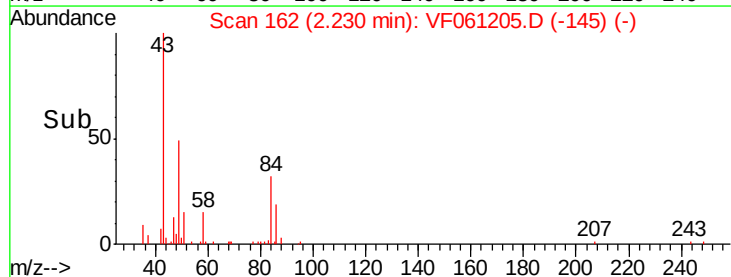
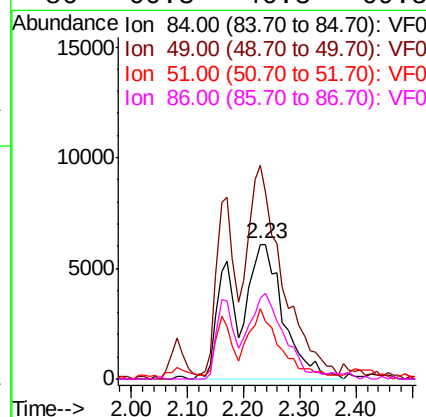
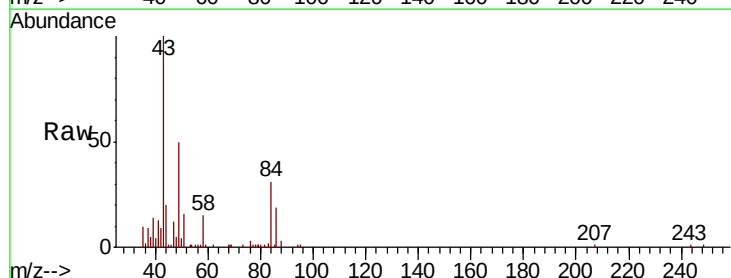
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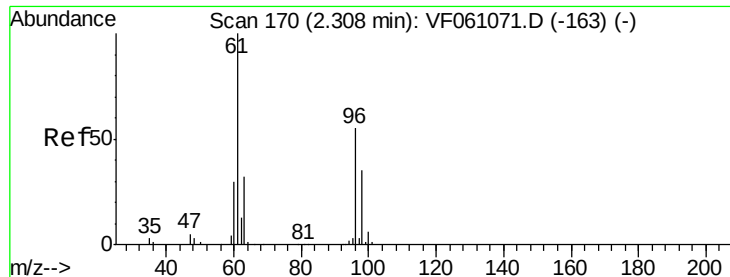
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#20
Methylene Chloride
Concen: 21.552 ug/l m
RT: 2.23 min Scan# 162
Delta R.T. -0.03 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
84	100		
49	158.5	129.4	194.2
51	52.3	44.0	66.0
86	60.3	46.3	69.5





#21

trans-1,2-Dichloroethene

Concen: 20.791 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.01 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

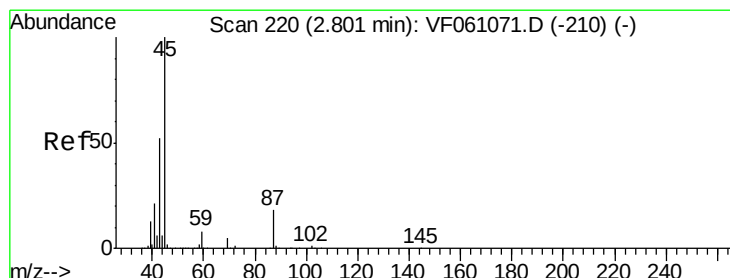
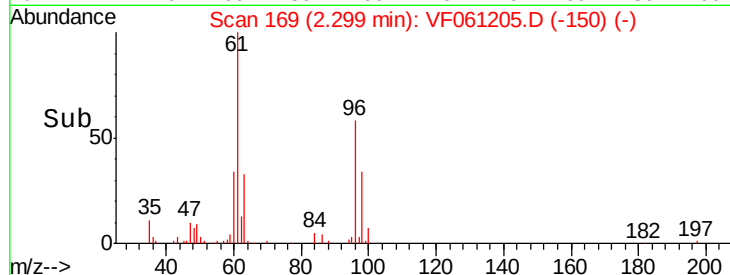
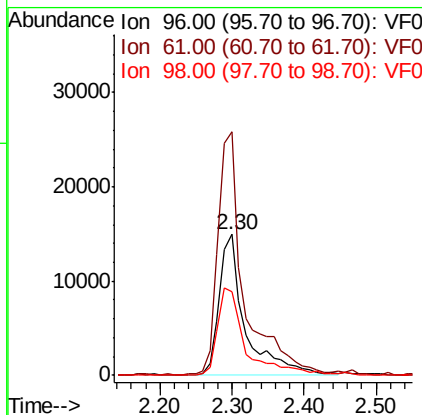
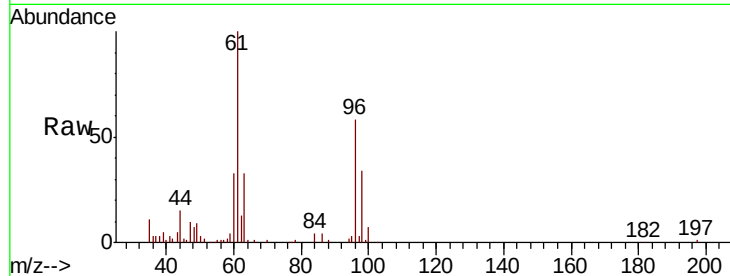
ClientSampleId :

VF1227SBS01

Tot Ion:	96	Resp:	37412
Ion	Ratio	Lower	Upper
96	100		
61	172.5	146.0	219.0
98	58.8	51.6	77.4

Manual Integrations
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#22

Diisopropyl ether

Concen: 21.925 ug/l

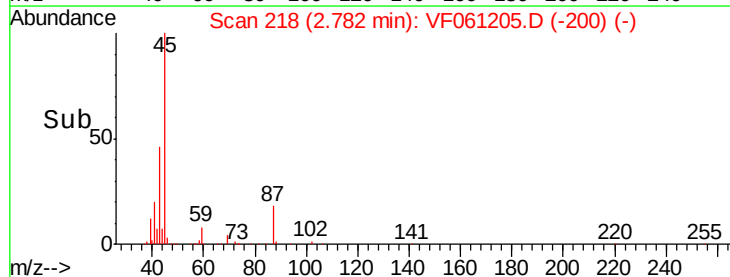
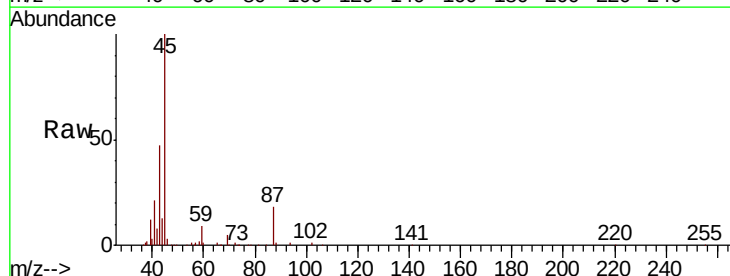
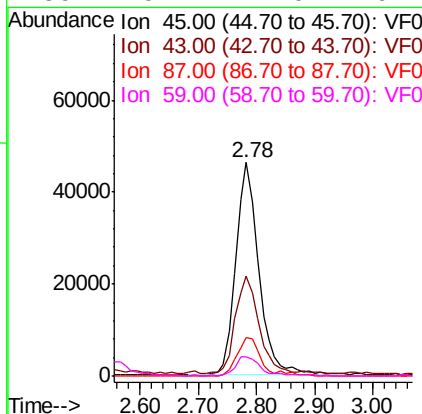
RT: 2.78 min Scan# 218

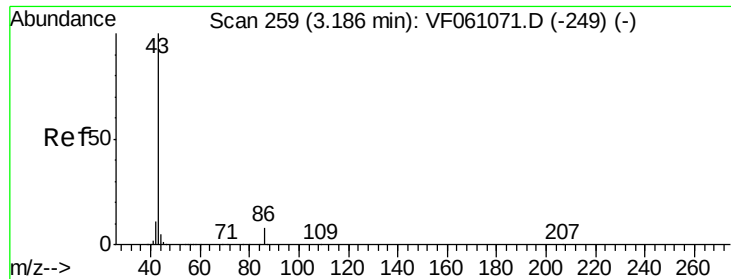
Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tgt Ion:	45	Resp:	127867
Ion	Ratio	Lower	Upper
45	100		
43	47.0	42.2	63.2
87	18.1	14.6	22.0
59	9.2	7.0	10.4





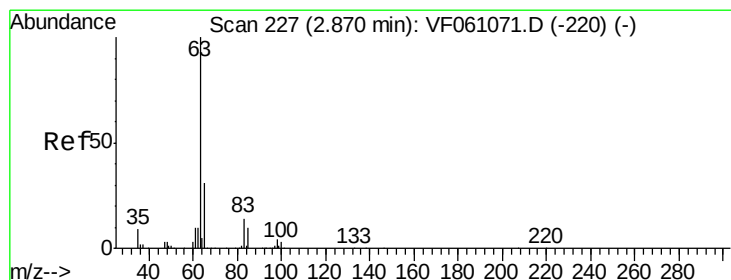
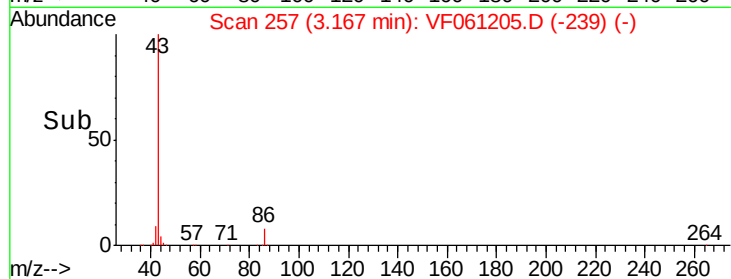
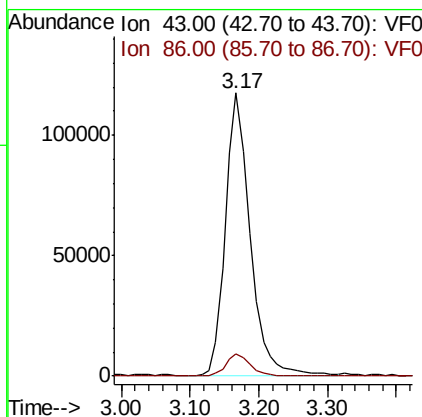
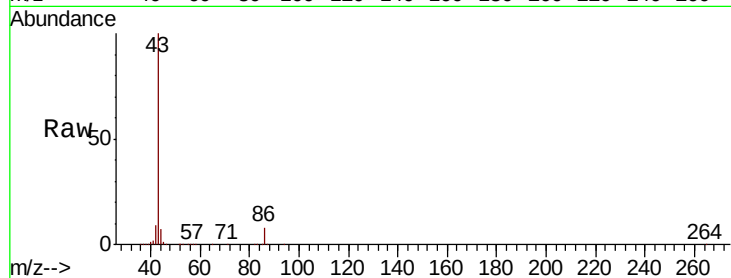
#23
 Vinyl Acetate
 Concen: 107.924 ug/l
 RT: 3.17 min Scan# 257
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion	Ratio	Resp	Lower	Upper
43	100	290364		
86	7.9		6.3	9.5

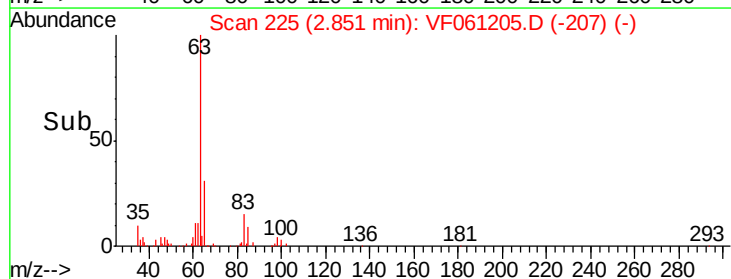
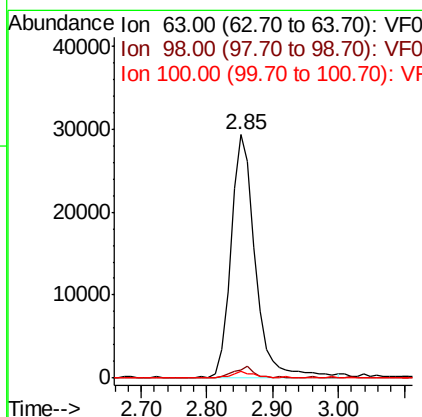
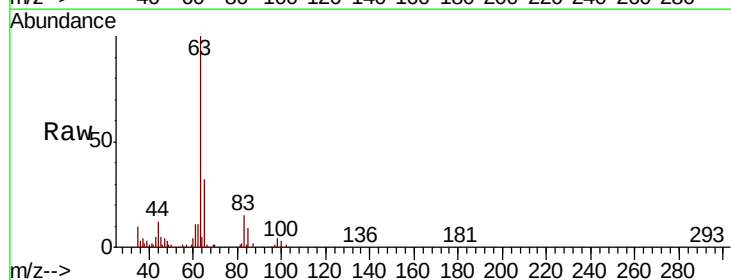
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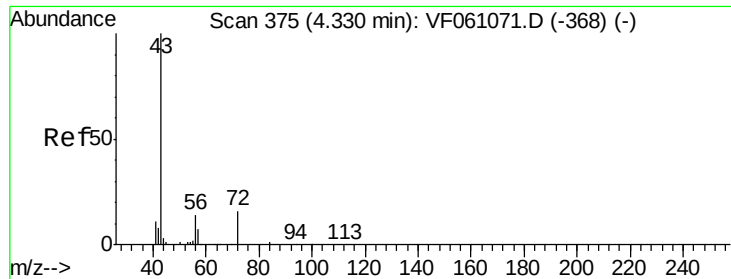
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 12/28/2018 9:38:23 AM



#24
 1,1-Dichloroethane
 Concen: 22.146 ug/l
 RT: 2.85 min Scan# 225
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	76524		
98	3.6		2.1	6.5
100	2.8		1.7	5.1





#25

2-Butanone

Concen: 106.604 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.01 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 43 Resp: 84844

Ion Ratio Lower Upper

43 100

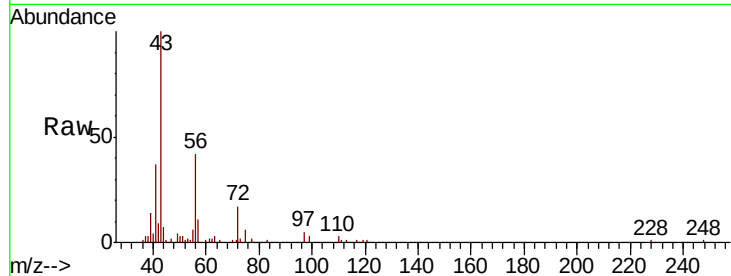
72 16.6 15.6 23.4

Manual Integrations

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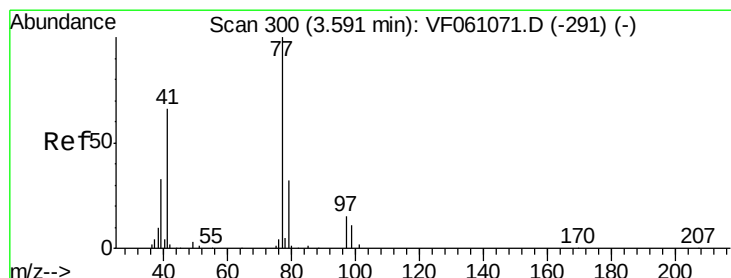
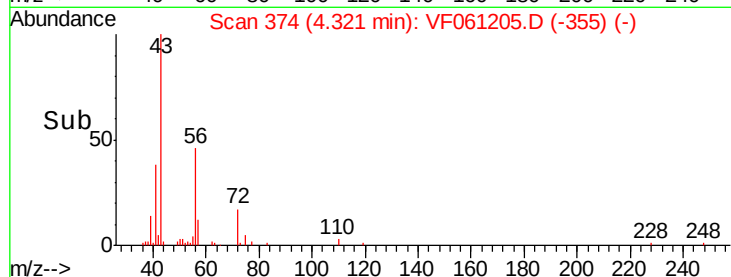
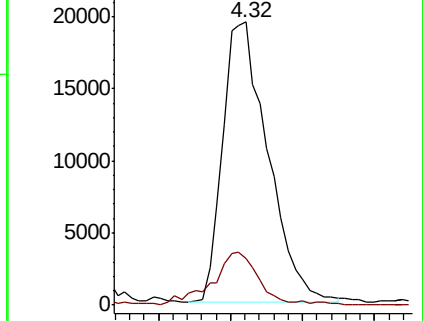
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 23.506 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.02 min

Lab File: VF061205.D

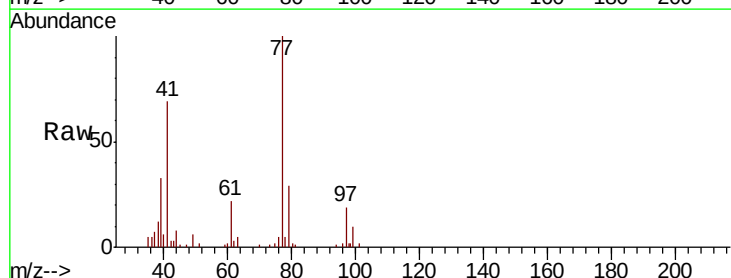
Acq: 27 Dec 2018 13:47

Tgt Ion: 77 Resp: 46612

Ion Ratio Lower Upper

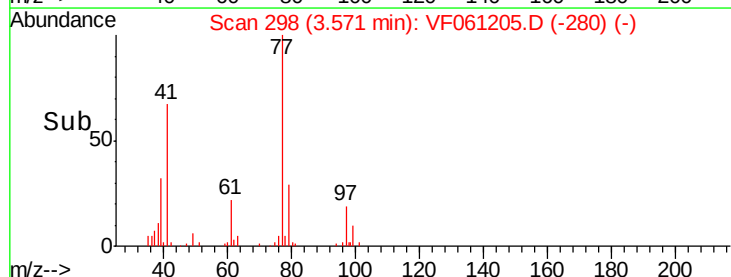
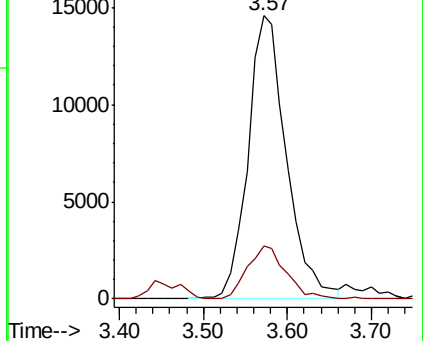
77 100

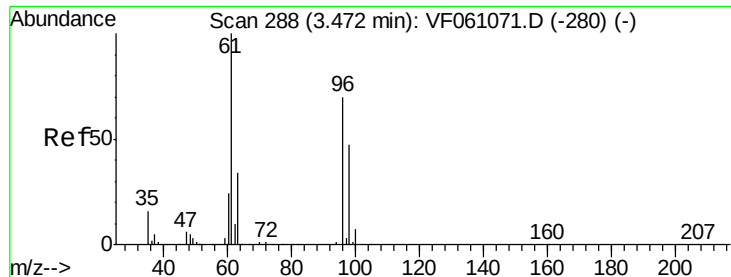
97 18.8 8.2 24.4



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

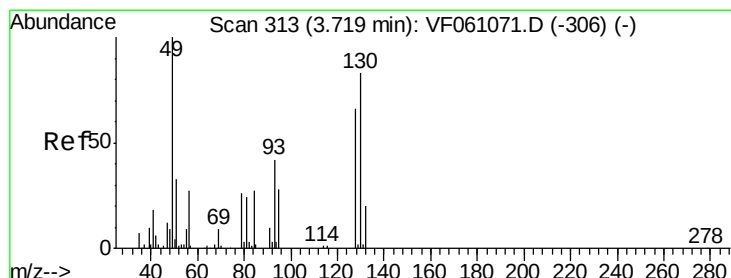
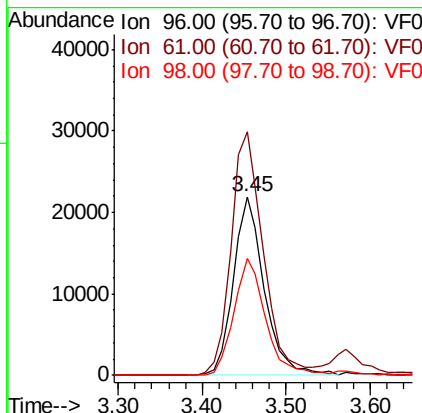
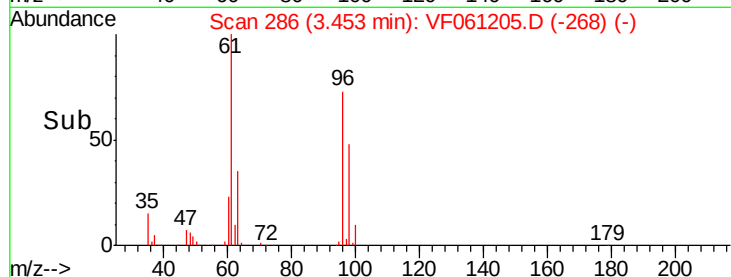
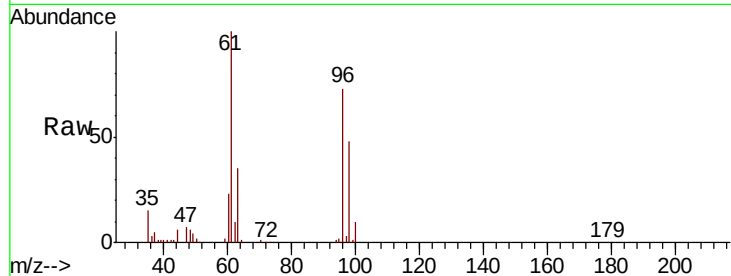
cis-1,2-Dichloroethene
Concen: 20.297 ug/l
RT: 3.45 min Scan# 286
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	55915		
61	136.2		0.0	287.8
98	65.4		0.0	134.2

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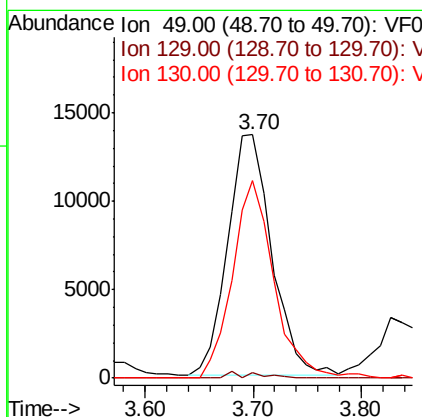
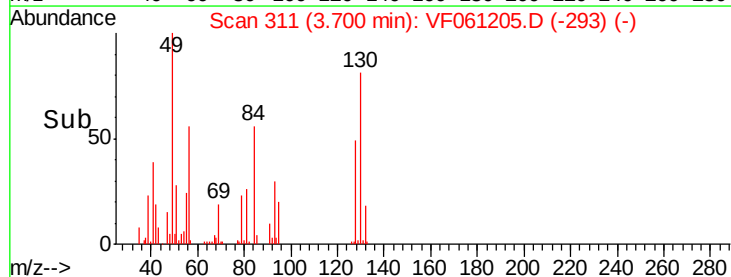
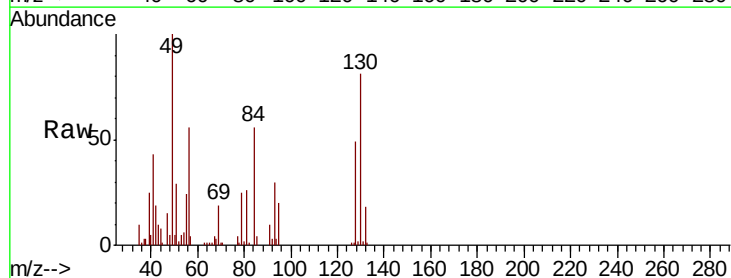
MMDadoda
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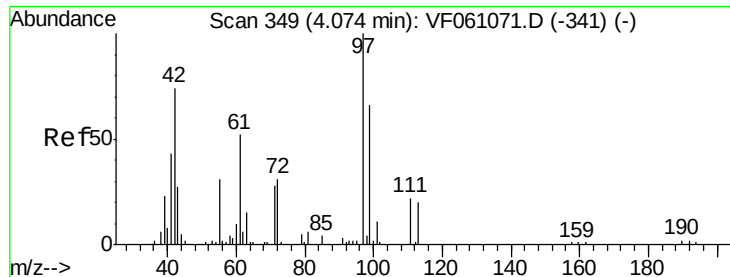


#28

Bromochloromethane
Concen: 22.180 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	38888		
129	2.1		0.0	3.6
130	81.0		65.8	98.6





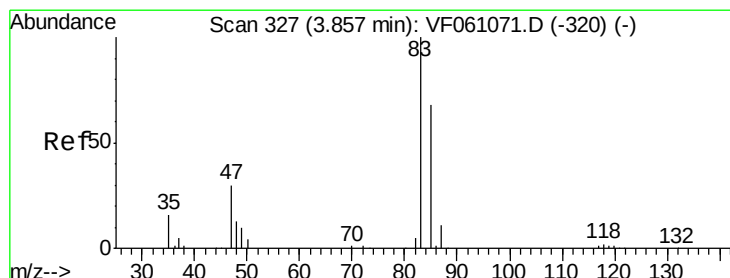
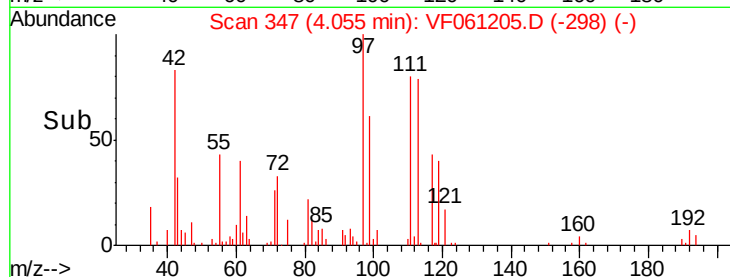
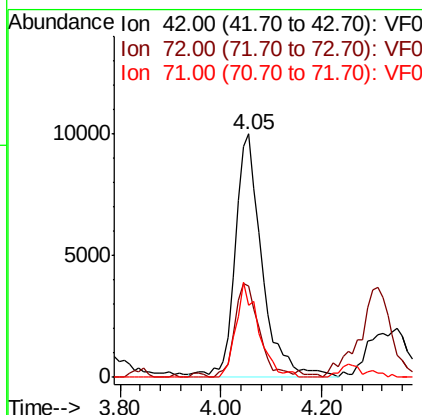
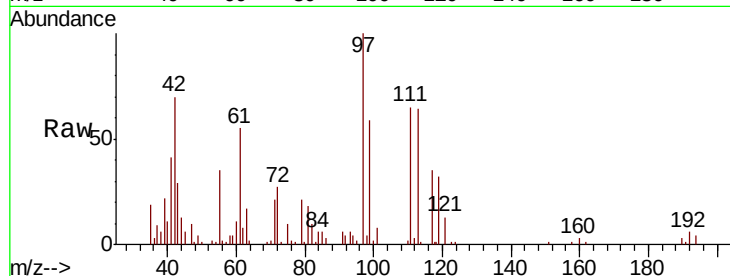
#29
Tetrahydrofuran
Concen: 113.271 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Resp	Lower	Upper
42	100	36692		
72	36.2		31.8	47.8
71	32.9		29.7	44.5

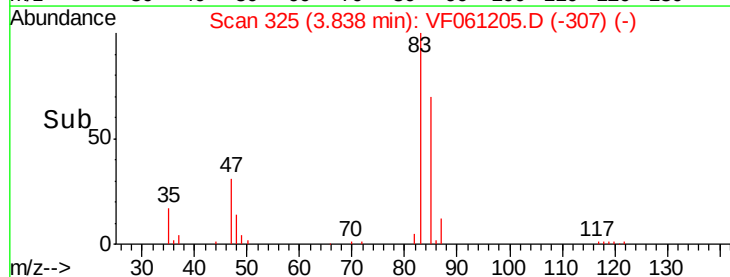
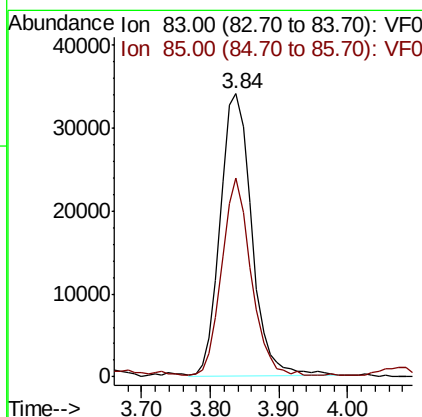
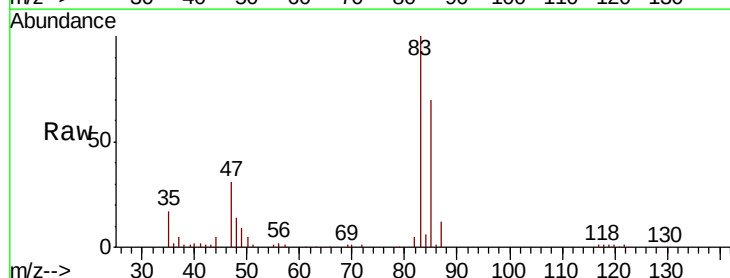
Manual Integrations
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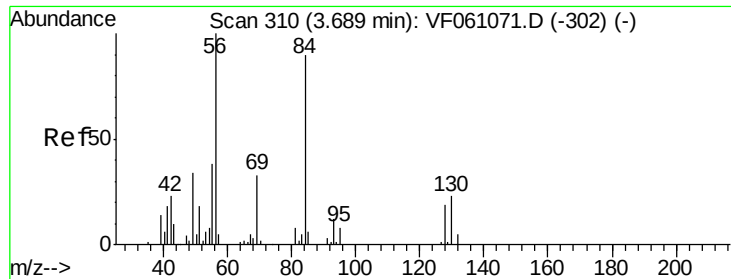
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#30
Chloroform
Concen: 20.897 ug/l
RT: 3.84 min Scan# 325
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	108270		
85	70.3		54.5	81.7





#31

Cyclohexane

Concen: 20.569 ug/l

RT: 3.67 min Scan# 308

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

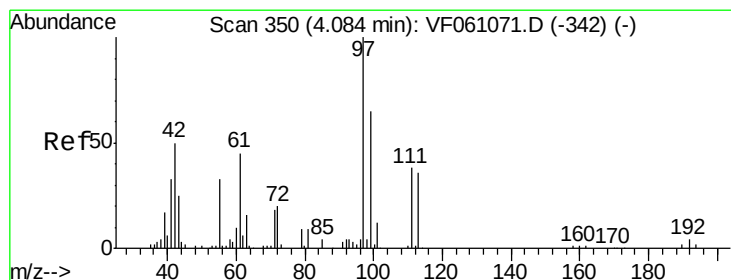
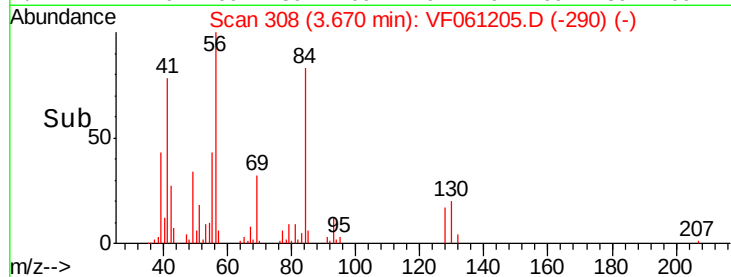
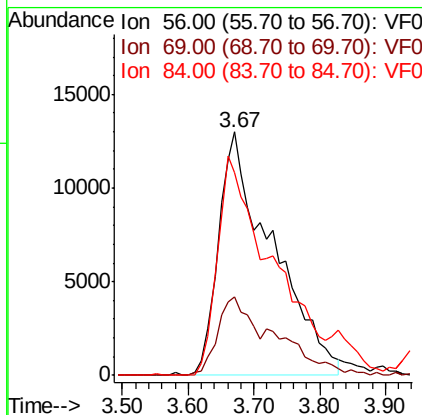
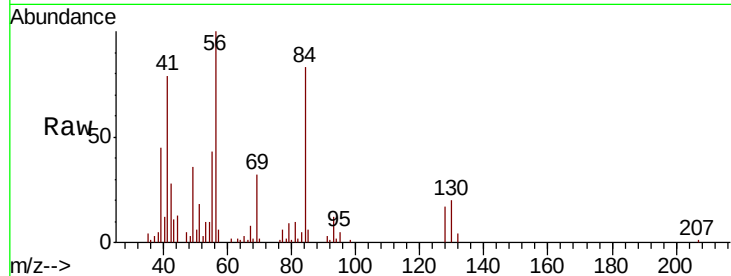
ClientSampleId :

VF1227SBS01

Tot Ion:	56	Resp:	73752
Ion Ratio	Lower	Upper	
56	100		
69	32.1	26.0	39.0
84	83.0	71.4	107.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 23.424 ug/l

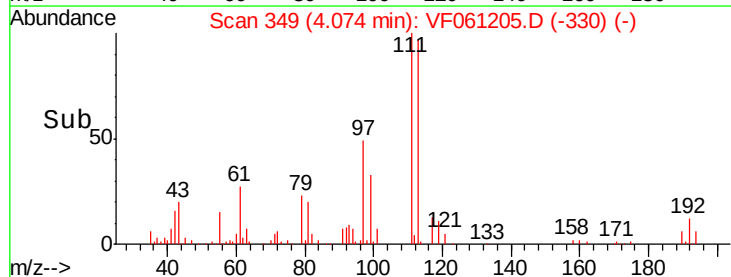
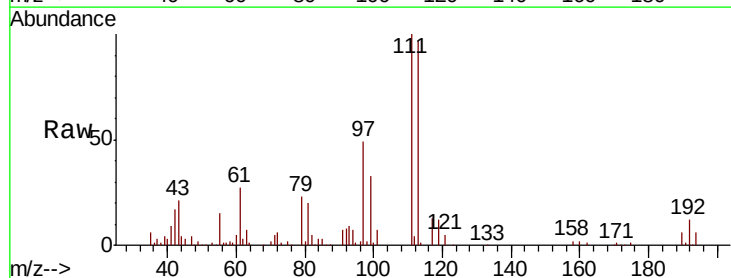
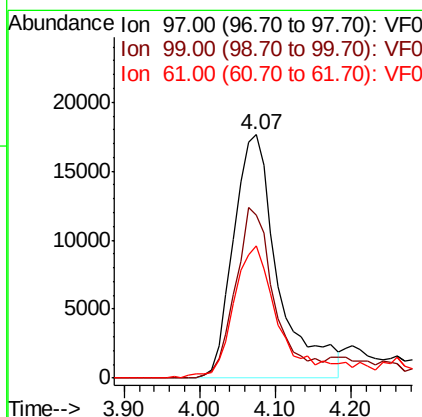
RT: 4.07 min Scan# 349

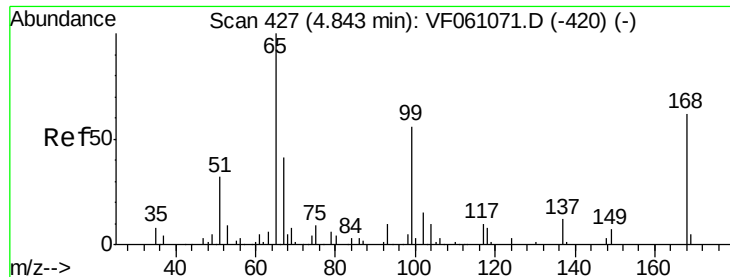
Delta R.T. -0.01 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tgt Ion:	97	Resp:	72743
Ion Ratio	Lower	Upper	
97	100		
99	67.0	51.6	77.4
61	54.3	36.2	54.2





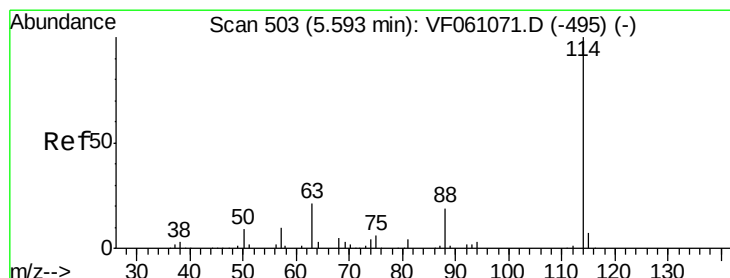
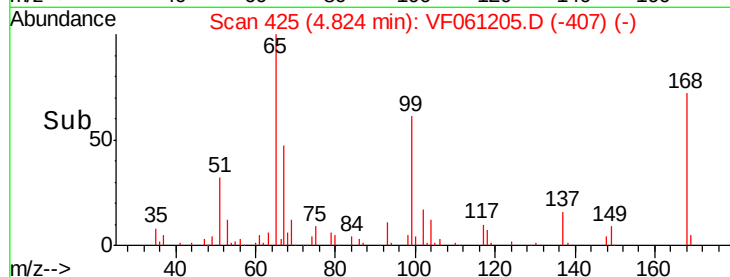
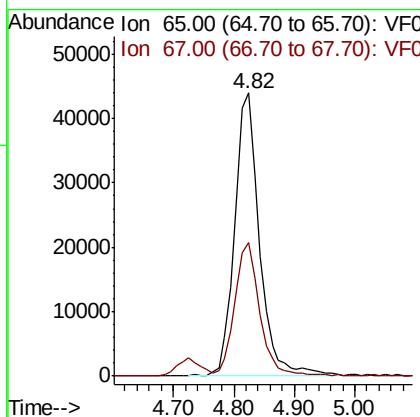
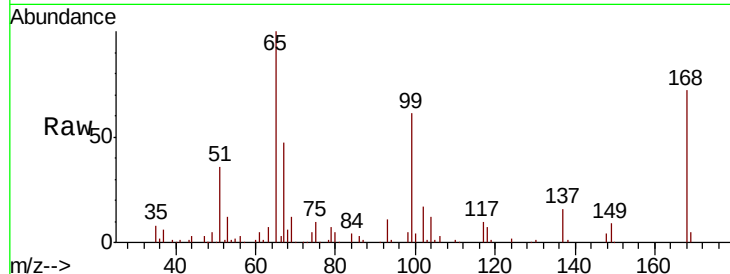
#33
 1,2-Dichloroethane-d4
 Concen: 51.280 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	125881		
67	47.0	0.0	94.6	

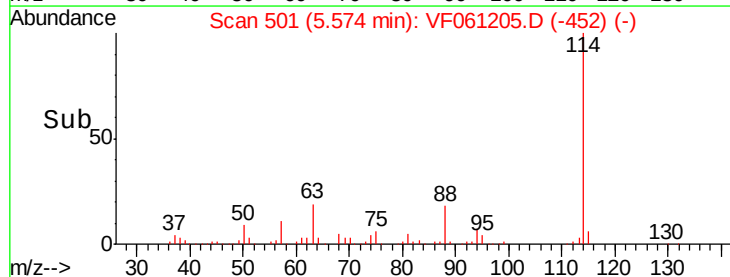
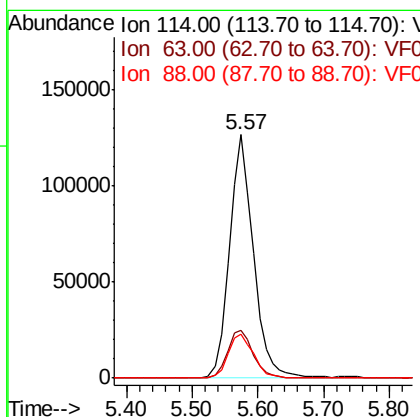
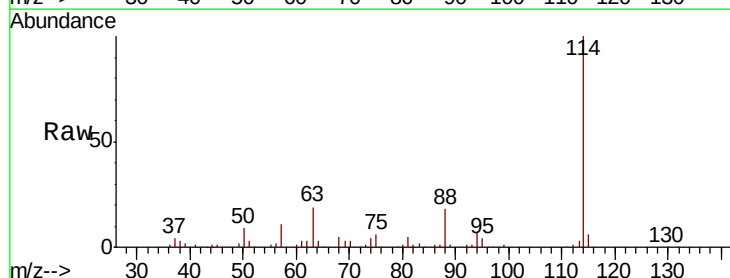
Manual Integrations
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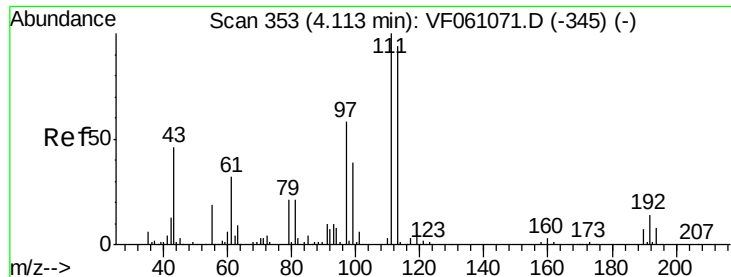
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.57 min Scan# 501
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	324088		
63	19.4	0.0	41.6	
88	18.1	0.0	38.0	





#35

Dibromofluoromethane

Concen: 52.515 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

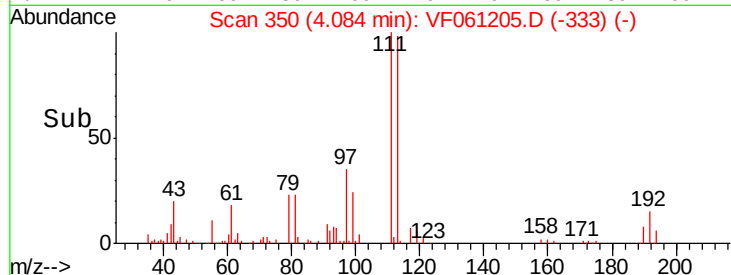
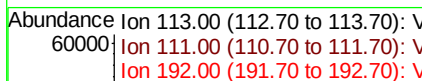
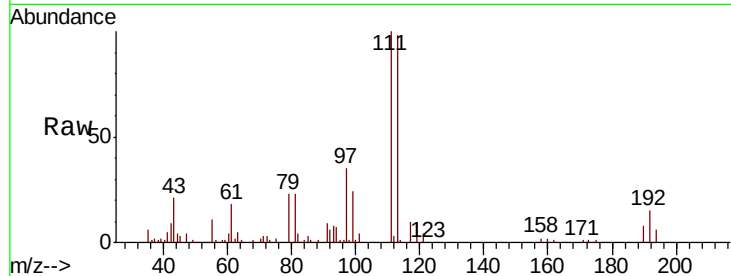
ClientSampleId :

VF1227SBS01

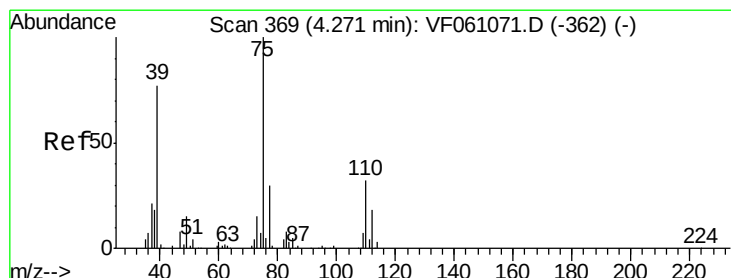
Tot Ion:	113	Resp:	136335
Ion Ratio	Lower	Upper	
113	100		
111	102.2	85.2	127.8
192	15.1	12.8	19.2

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Time-->



#36

1,1-Dichloropropene

Concen: 20.189 ug/l

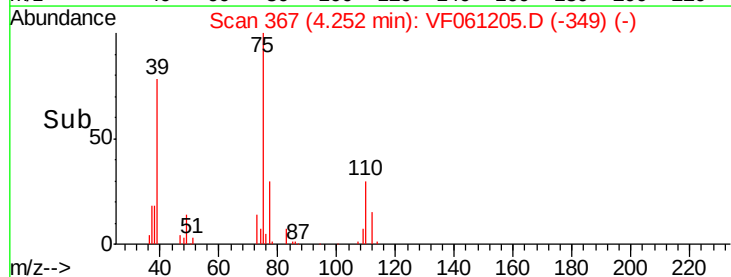
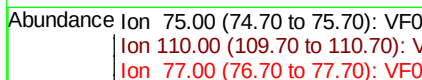
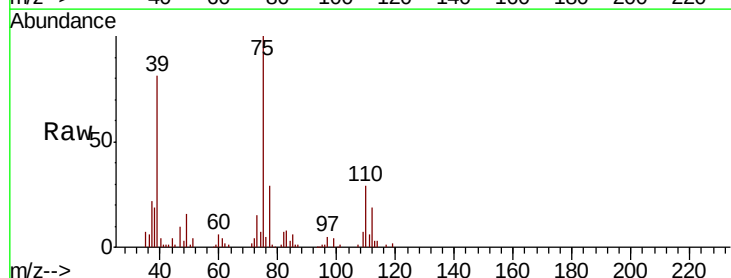
RT: 4.25 min Scan# 367

Delta R.T. -0.02 min

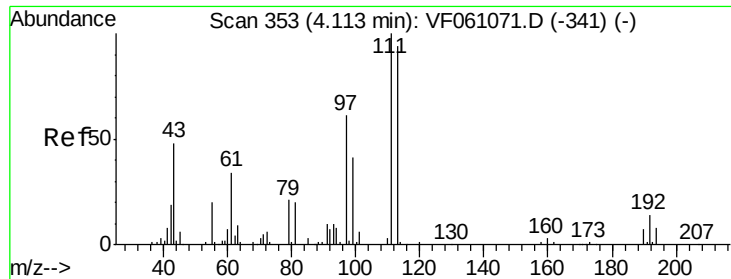
Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tgt Ion:	75	Resp:	78978
Ion Ratio	Lower	Upper	
75	100		
110	28.8	16.1	48.2
77	29.4	24.5	36.7



Time-->



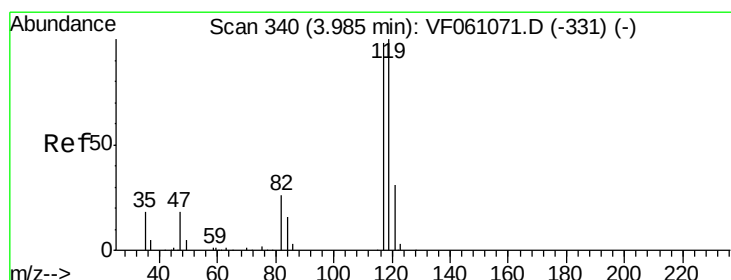
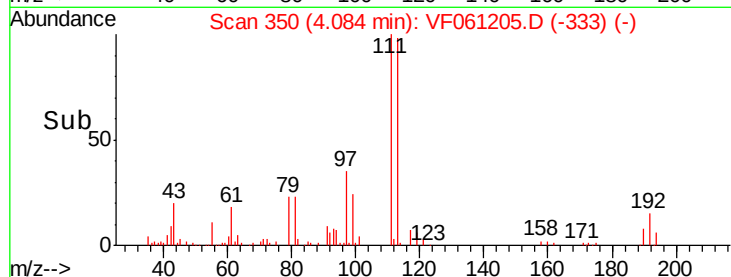
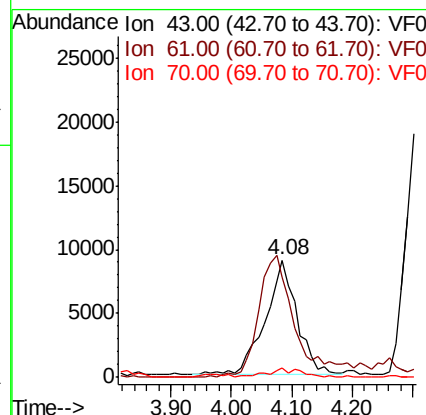
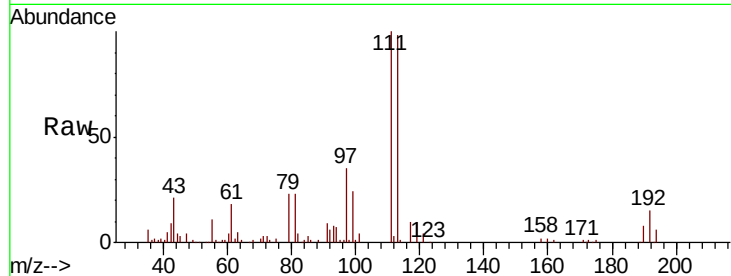
#37
Ethyl Acetate
Concen: 19.420 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	43	61	70	Ratio	Lower	Upper	Resp
43	100						32833
61	85.6	56.6				84.8#	
70	7.6	6.3				9.5	

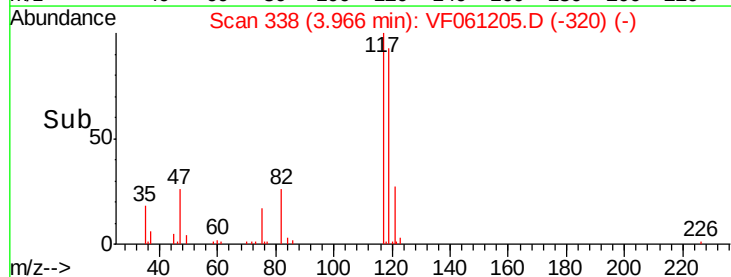
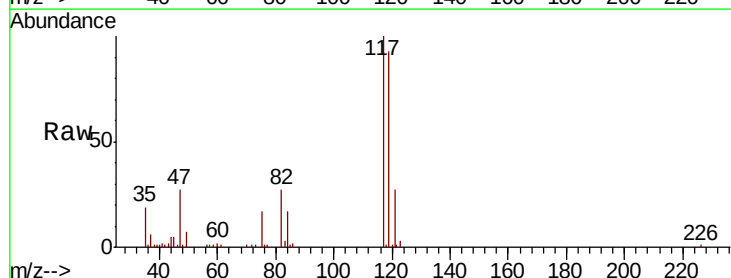
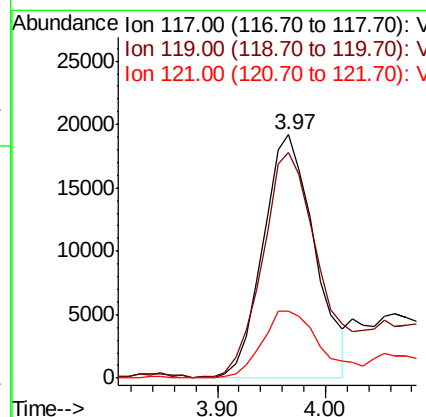
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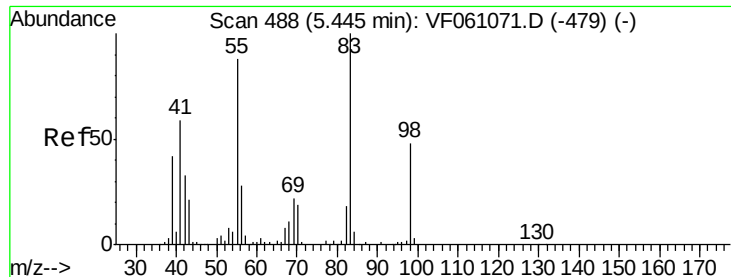
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#38
Carbon Tetrachloride
Concen: 21.516 ug/l
RT: 3.97 min Scan# 338
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	117	119	121	Ratio	Lower	Upper	Resp
117	100						64098
119	92.5	82.1				123.1	
121	28.0	25.5				38.3	





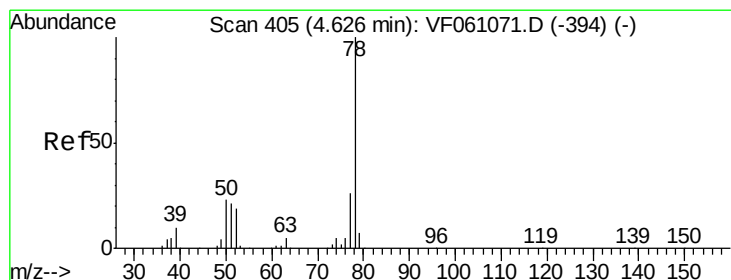
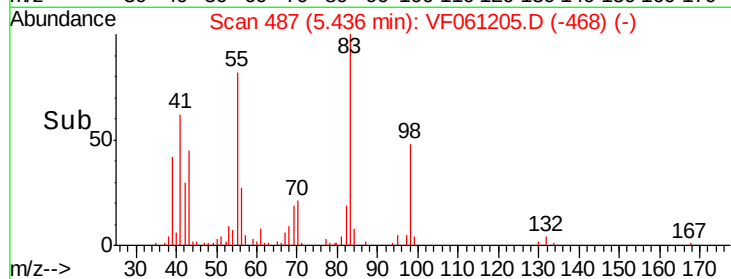
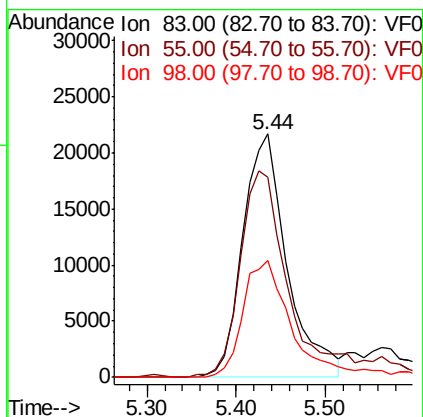
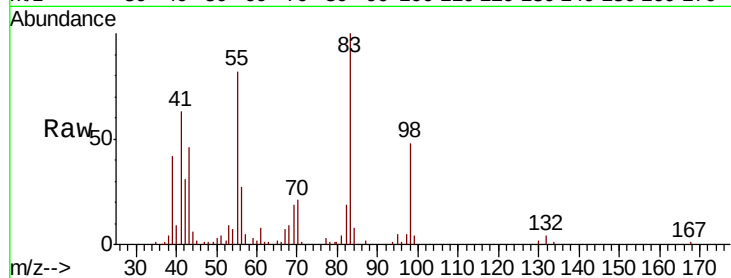
#39
Methylvlcyclohexane
Concen: 21.321 ug/l
RT: 5.44 min Scan# 487
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	83	Resp	74827
Ion Ratio	100	Lower	Upper
83	100		
55	81.9	70.6	105.8
98	48.0	38.5	57.7

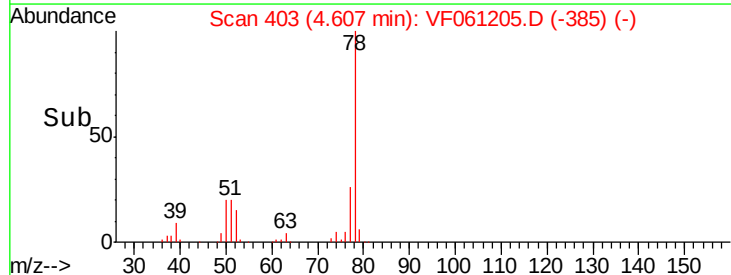
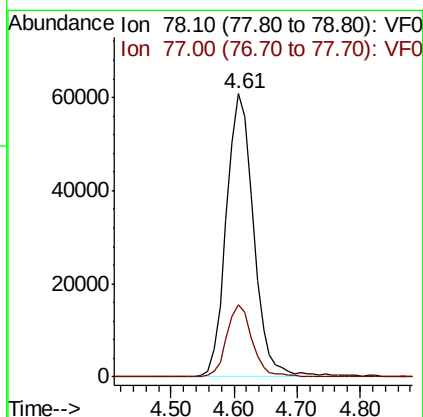
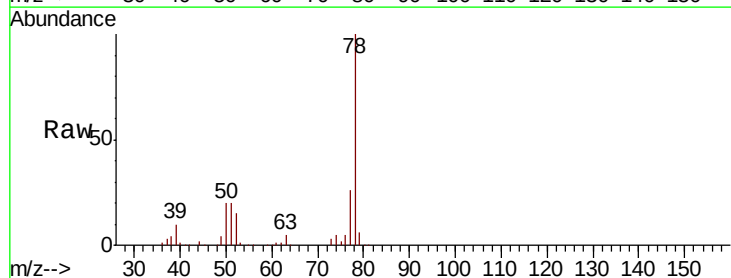
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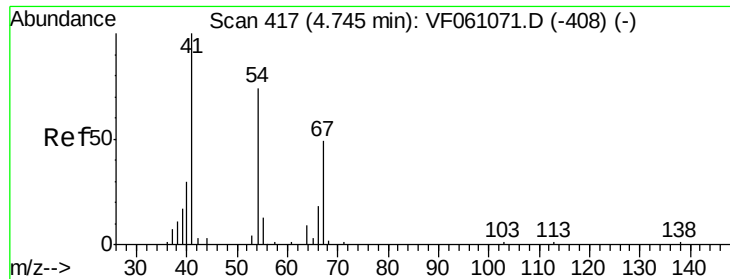
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#40
Benzene
Concen: 21.708 ug/l
RT: 4.61 min Scan# 403
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	78	Resp	182627
Ion Ratio	100	Lower	Upper
78	100		
77	25.7	20.7	31.1





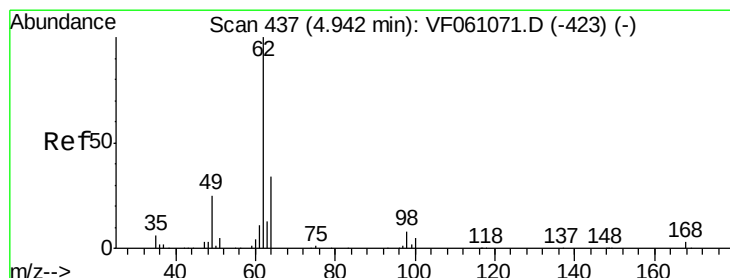
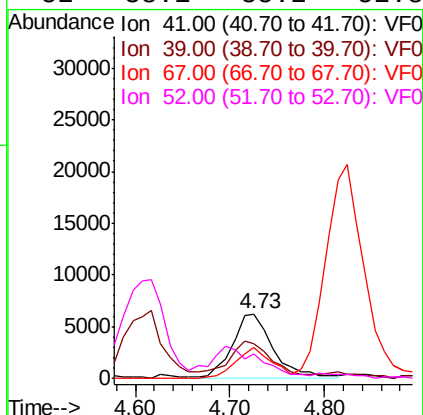
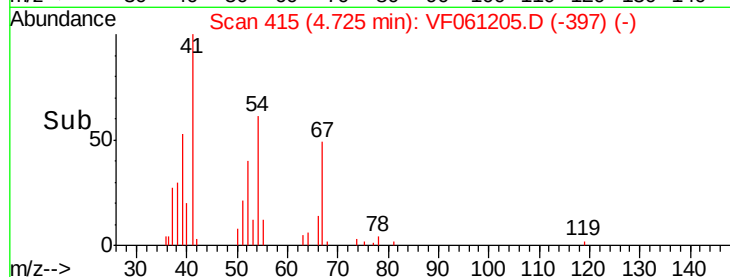
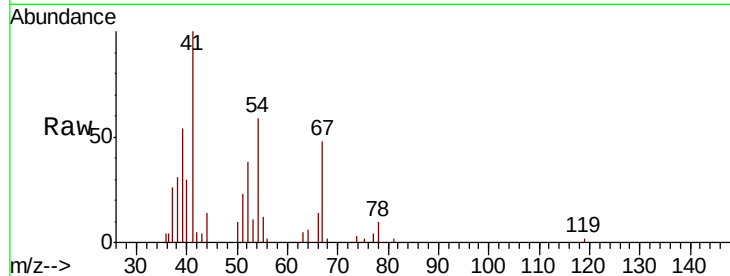
#41
Methacrylonitrile
Concen: 22.504 ug/l
RT: 4.73 min Scan# 415
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.5	45.7	68.5	
67	47.5	38.9	58.3	
52	38.1	35.2	52.8	

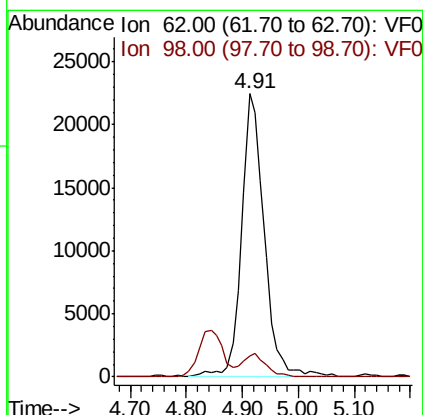
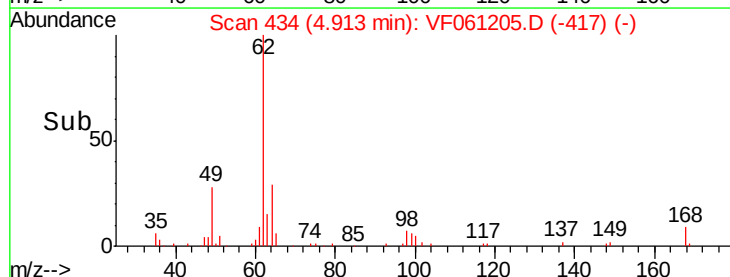
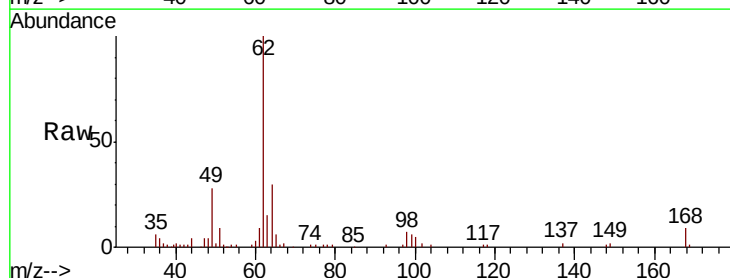
Manual Integrations
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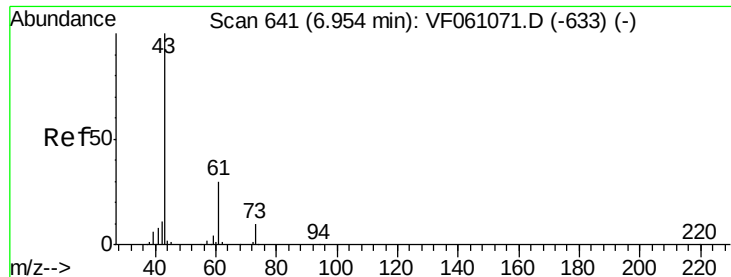
MMDadoda
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#42
1,2-Dichloroethane
Concen: 19.728 ug/l
RT: 4.91 min Scan# 434
Delta R.T. -0.03 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	7.3	0.0	16.6	





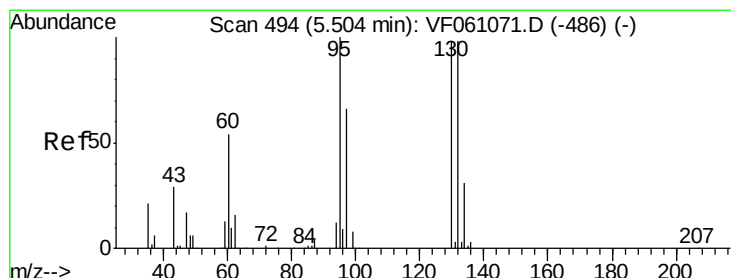
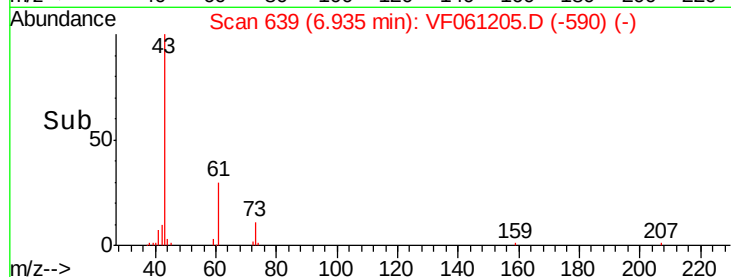
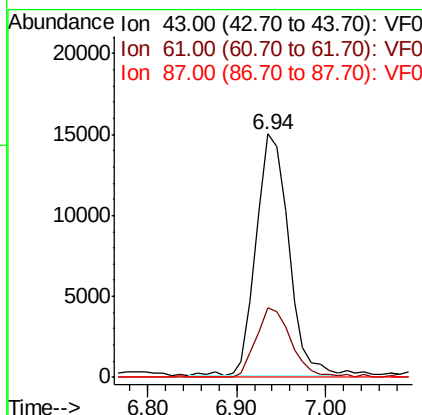
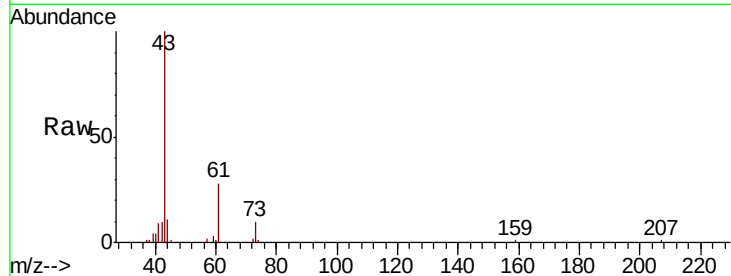
#43
Isopropyl Acetate
Concen: 19.997 ug/l
RT: 6.94 min Scan# 639
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.3	23.8	35.8
87	0.0	0.0	0.0

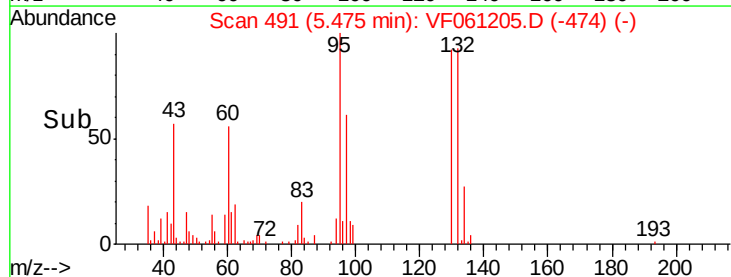
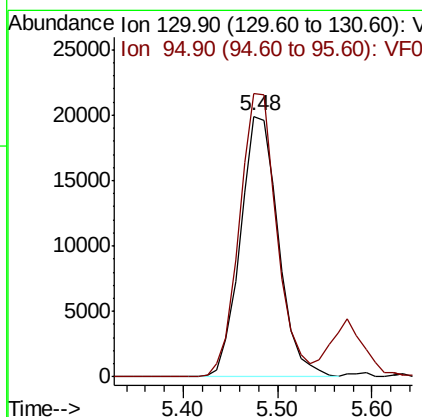
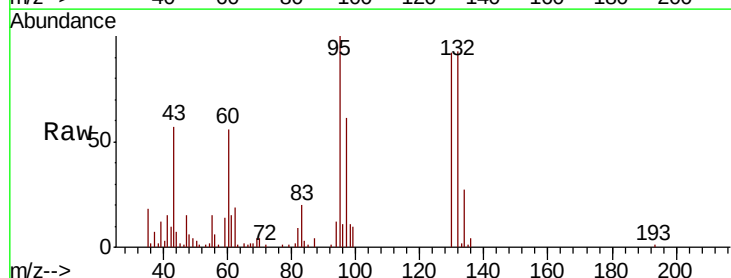
Manual Integrations
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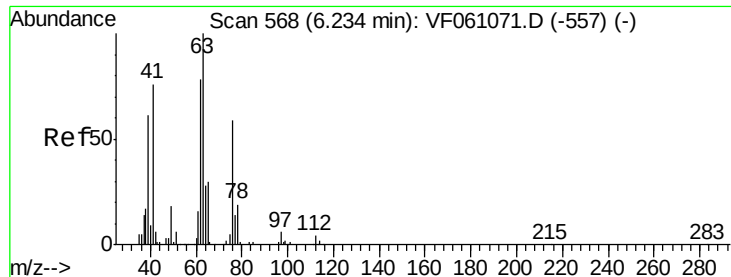
MMDadoda
12/28/2018 9:38:23 AM



#44
Trichloroethene
Concen: 20.952 ug/l
RT: 5.48 min Scan# 491
Delta R.T. -0.03 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
130	100		
95	108.6	0.0	205.2





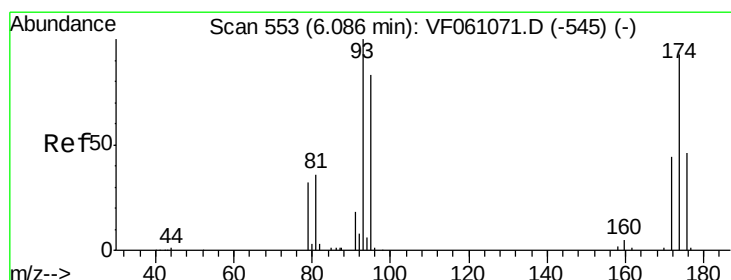
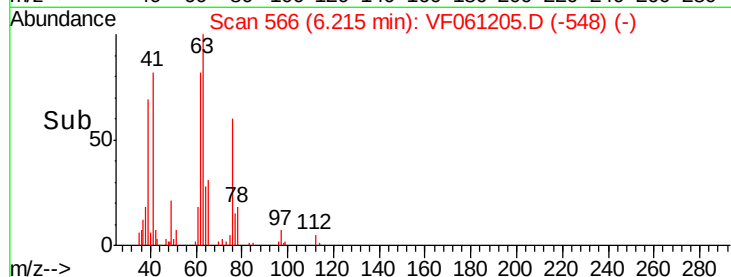
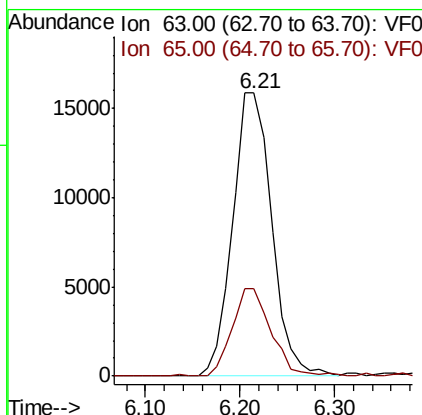
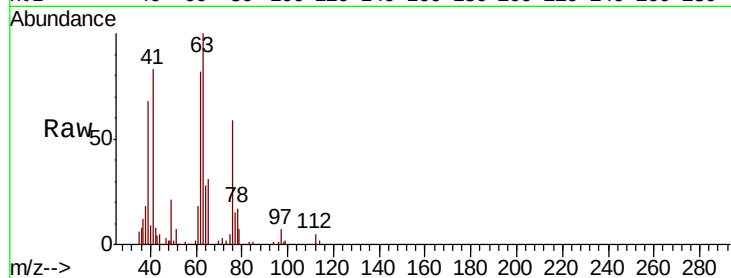
#45
 1,2-Dichloropropane
 Concen: 19.924 ug/l
 RT: 6.21 min Scan# 566
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.4	36.6

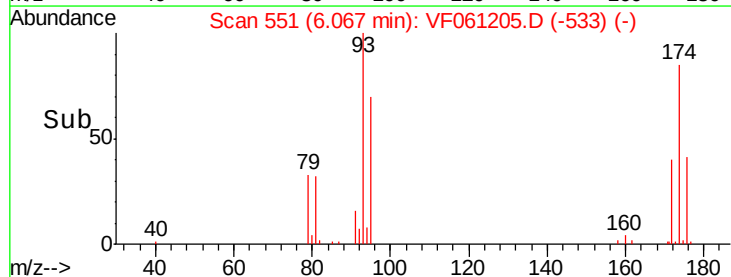
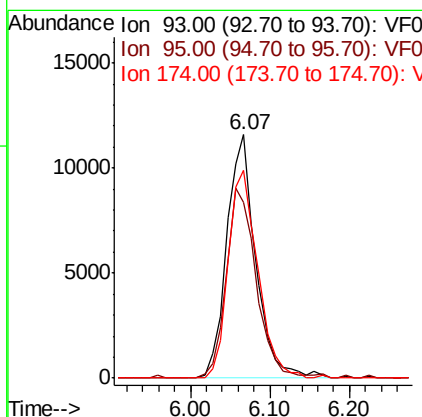
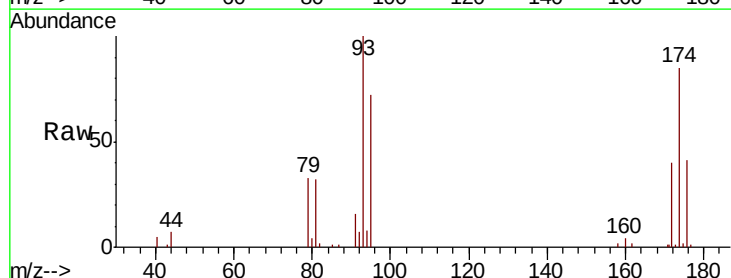
Manual Integrations
 APPROVED

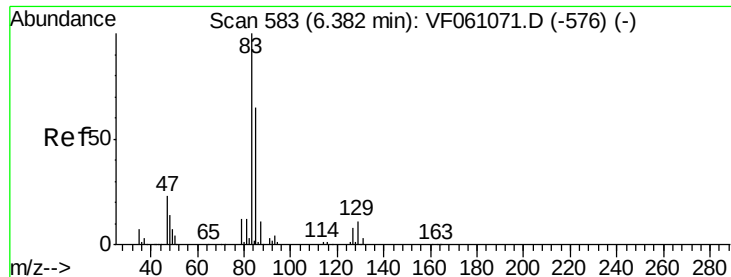
MMDadoda
 12/28/2018 9:38:23 AM



#46
 Dibromomethane
 Concen: 20.022 ug/l
 RT: 6.07 min Scan# 551
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
93	100		
95	72.4	66.9	100.3
174	85.3	74.1	111.1





#47

Bromodichloromethane

Concen: 20.267 ug/l

RT: 6.36 min Scan# 581

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

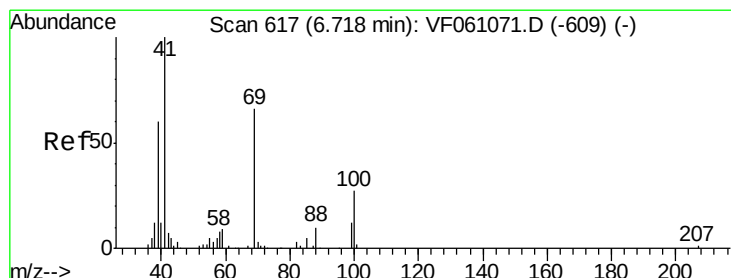
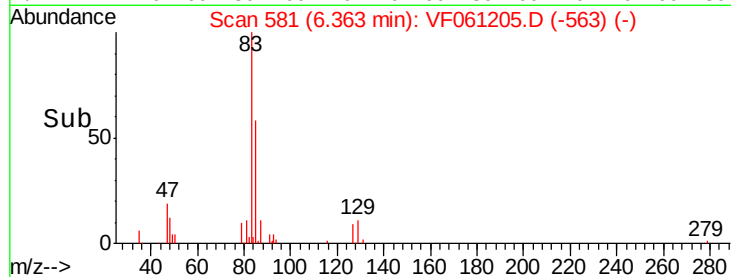
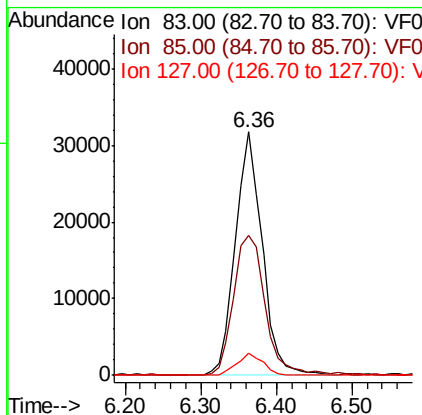
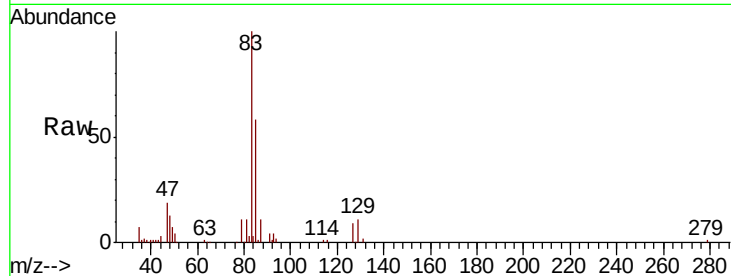
ClientSampleId :

VF1227SBS01

Tot Ion:	83	Resp:	78173
Ion	Ratio	Lower	Upper
83	100		
85	57.5	52.2	78.4
127	8.9	6.1	9.1

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.469 ug/l

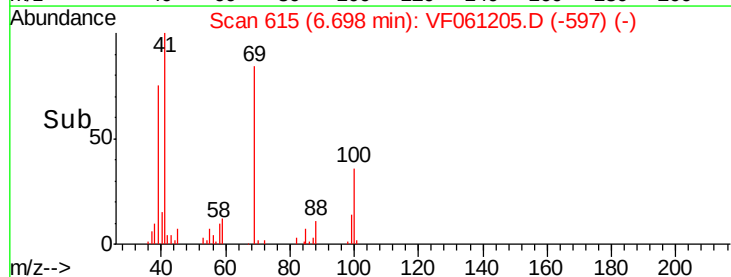
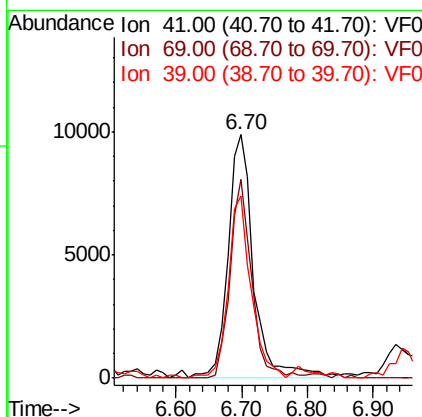
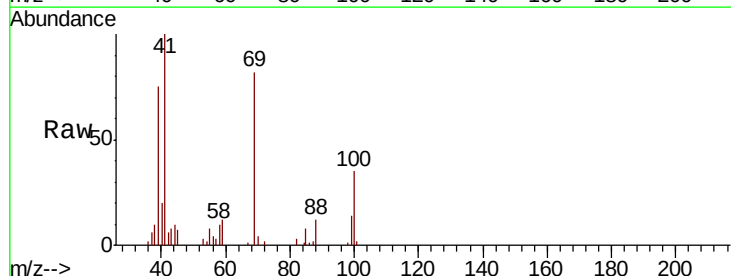
RT: 6.70 min Scan# 615

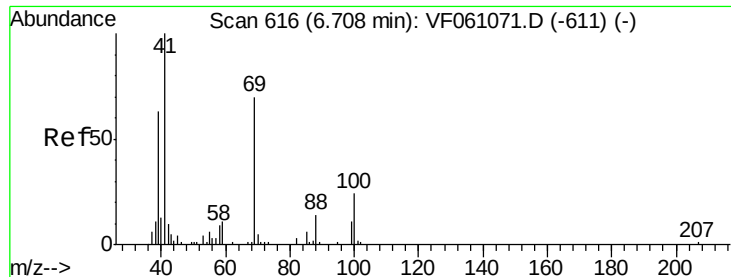
Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tgt Ion:	41	Resp:	26992
Ion	Ratio	Lower	Upper
41	100		
69	81.7	52.7	79.1#
39	74.6	47.8	71.6#





#49

1,4-Dioxane

Concen: 423.909 ug/l

RT: 6.69 min Scan# 614

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

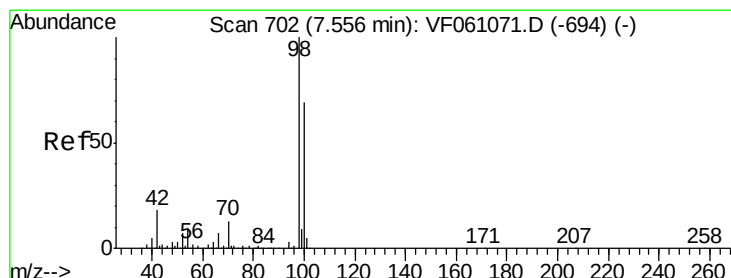
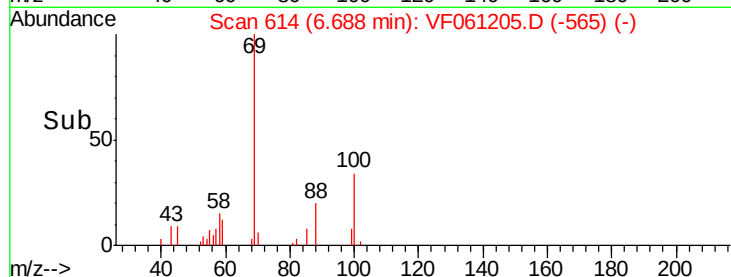
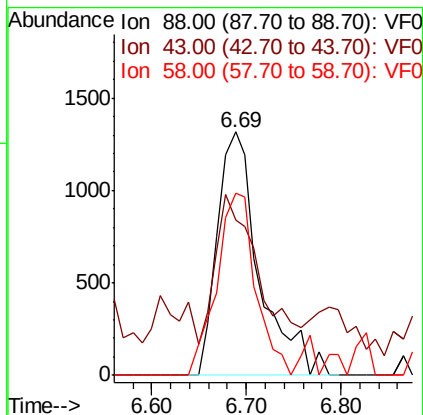
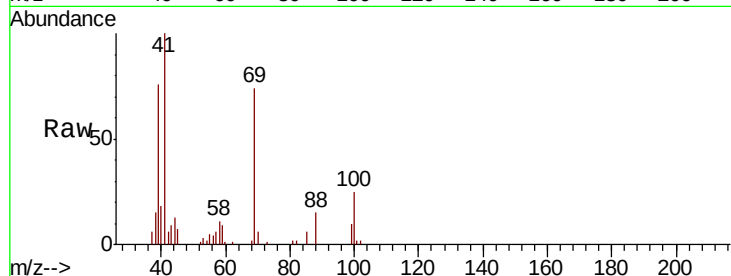
ClientSampleId :

VF1227SBS01

Tot Ion:	88	Resp:	4056
Ion	Ratio	Lower	Upper
88	100		
43	63.8	33.3	49.9#
58	74.7	53.2	79.8

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#50

Toluene-d8

Concen: 49.136 ug/l

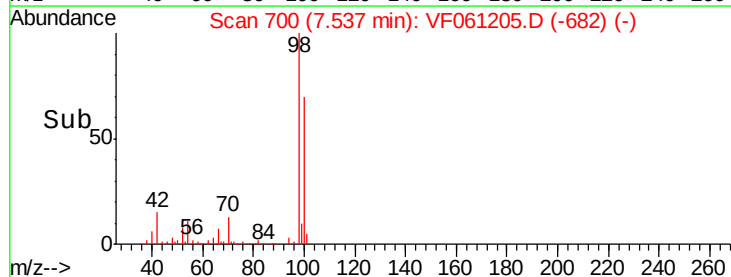
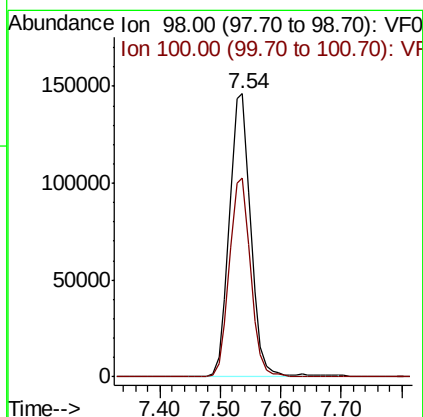
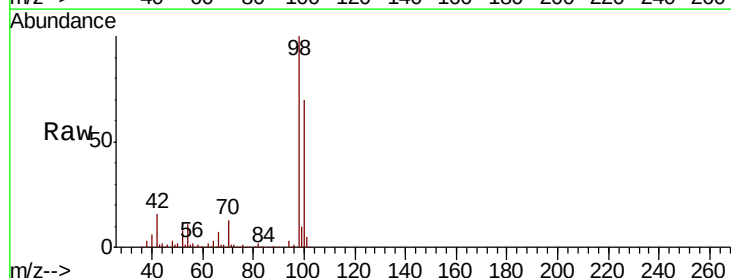
RT: 7.54 min Scan# 700

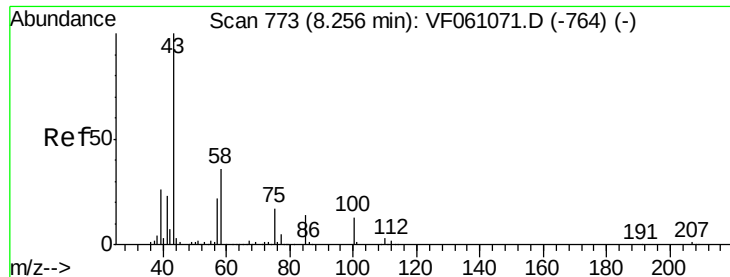
Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tgt Ion:	98	Resp:	361496
Ion	Ratio	Lower	Upper
98	100		
100	70.2	55.3	82.9





#51

4-Methyl-2-Pentanone

Concen: 108.911 ug/l

RT: 8.24 min Scan# 771

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 43 Resp: 141088

Ion Ratio Lower Upper

43 100

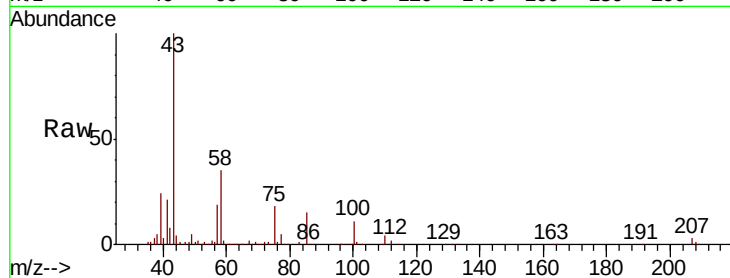
58 35.1 29.1 43.7

Manual Integrations

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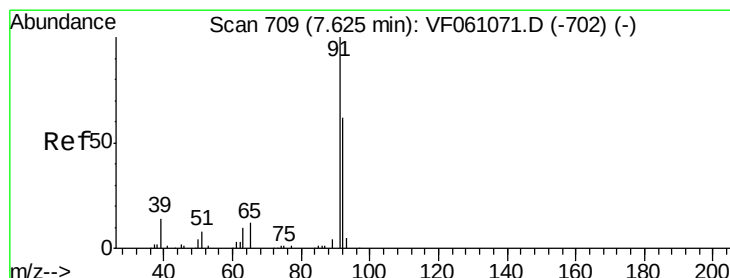
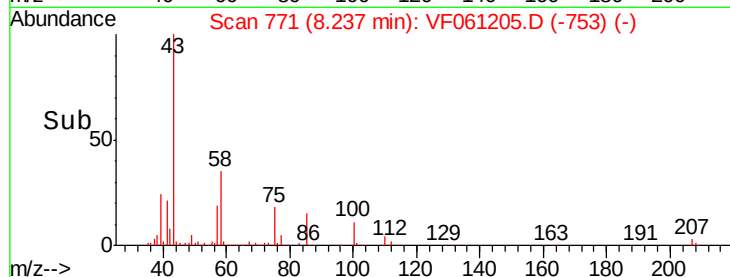
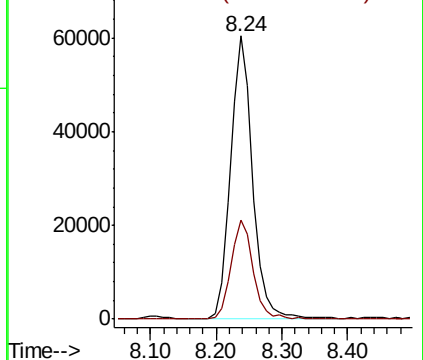
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.363 ug/l

RT: 7.61 min Scan# 707

Delta R.T. -0.02 min

Lab File: VF061205.D

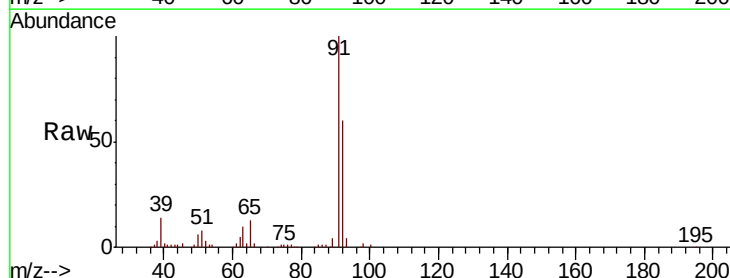
Acq: 27 Dec 2018 13:47

Tgt Ion: 92 Resp: 107830

Ion Ratio Lower Upper

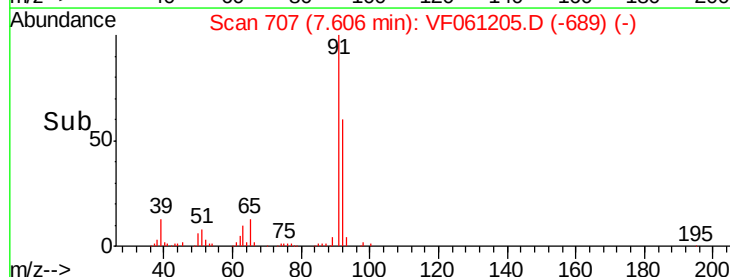
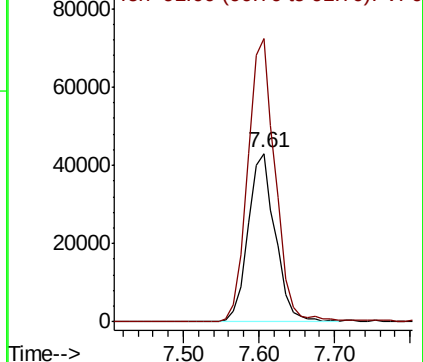
92 100

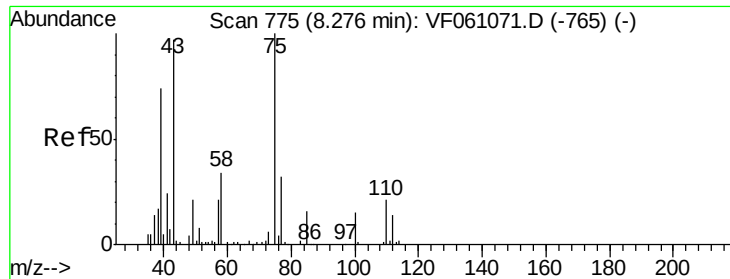
91 167.7 128.8 193.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 20.836 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tot Ion: 75 Resp: 64833

Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.8

Instrument :

MSVOA_F

ClientSampleId :

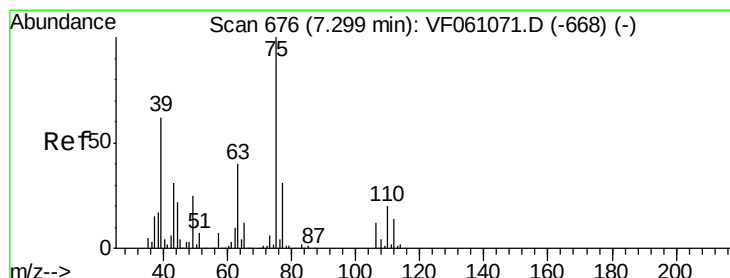
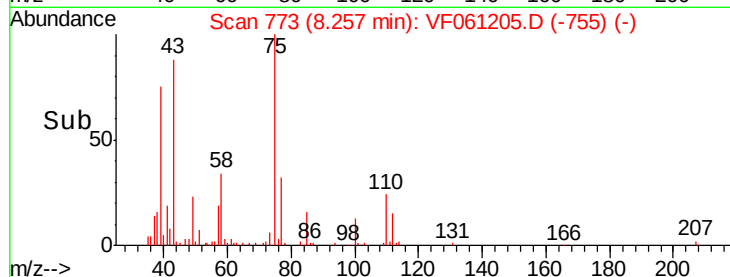
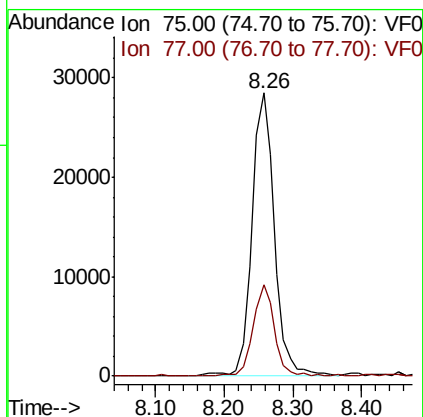
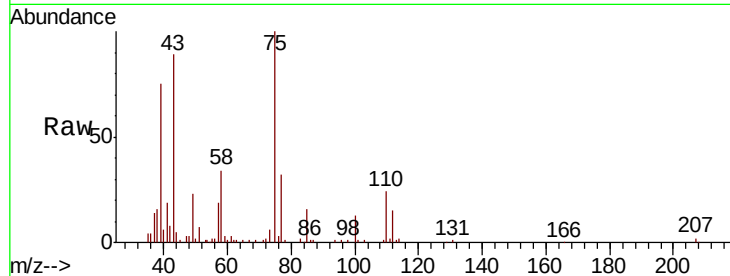
VF1227SBS01

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#54

cis-1,3-Dichloropropene

Concen: 20.855 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

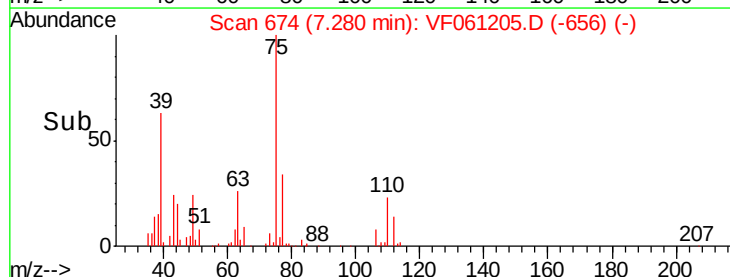
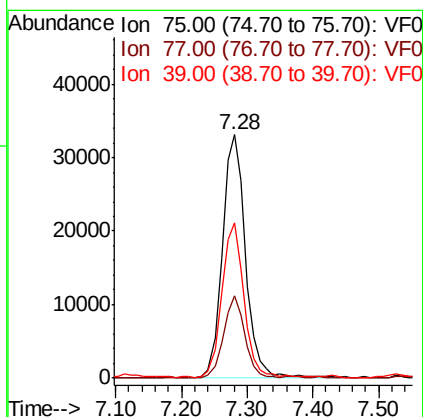
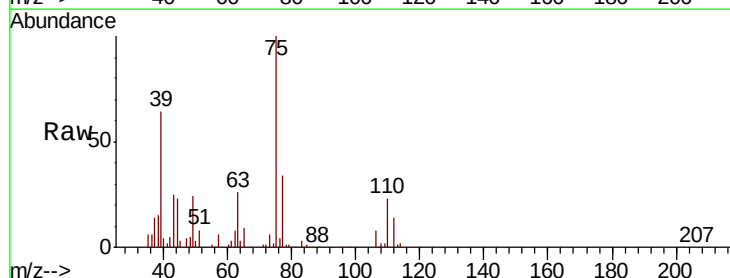
Tgt Ion: 75 Resp: 81445

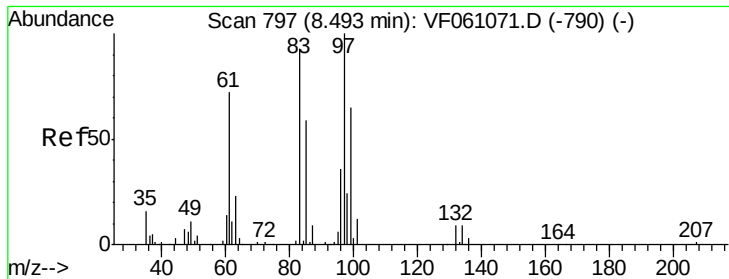
Ion Ratio Lower Upper

75 100

77 33.8 25.0 37.4

39 63.8 50.1 75.1





#55

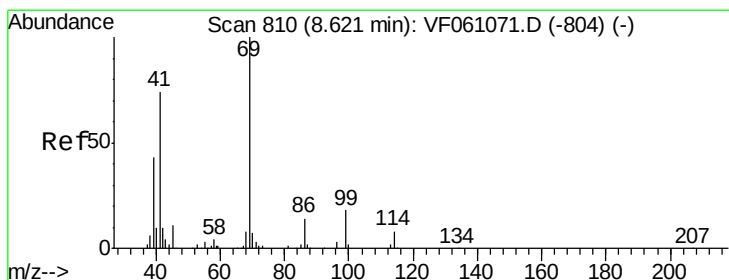
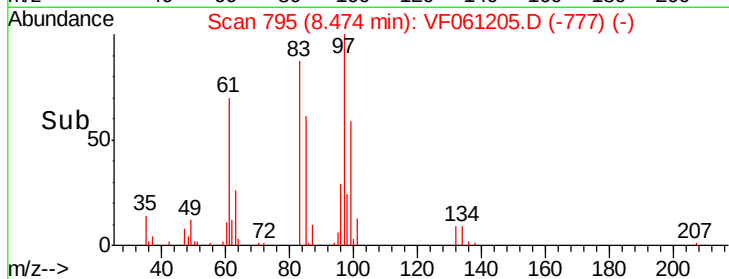
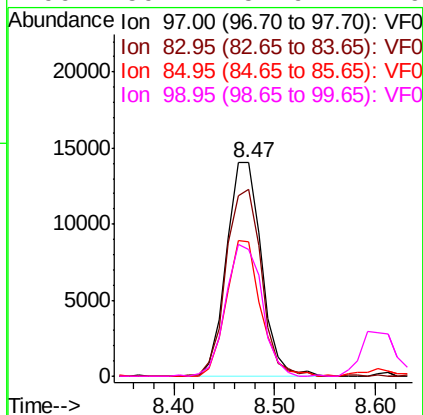
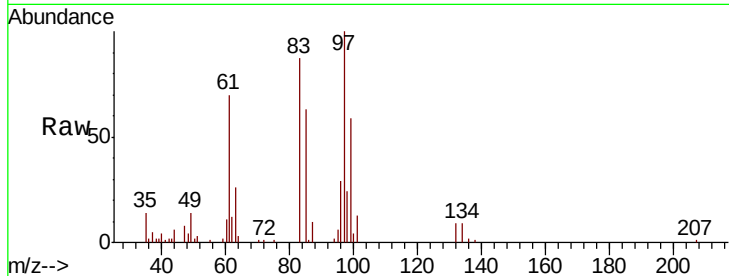
1,1,2-Trichloroethane
Concen: 20.303 ug/l
RT: 8.47 min Scan# 795
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	97	Resp	33895
Ion	Ratio	Lower	Upper
97	100		
83	87.4	75.0	112.4
85	62.8	47.5	71.3
99	59.2	51.9	77.9

Manual Integrations
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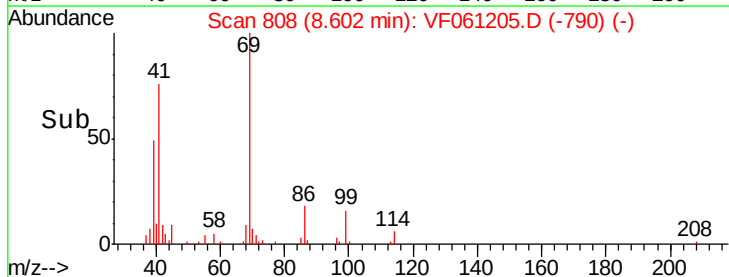
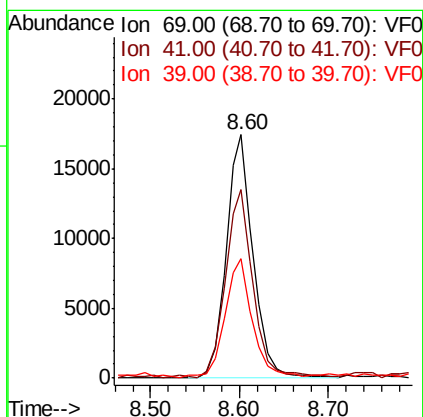
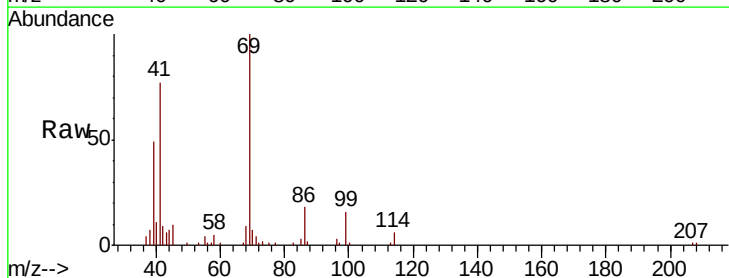
MMDadoda
12/28/2018 9:38:23 AM

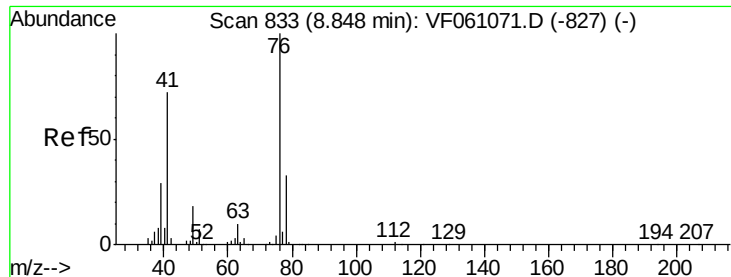


#56

Ethyl methacrylate
Concen: 20.369 ug/l
RT: 8.60 min Scan# 808
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	69	Resp	36795
Ion	Ratio	Lower	Upper
69	100		
41	77.5	59.7	89.5
39	49.3	35.0	52.6





#57

1,3-Dichloropropane

Concen: 20.698 ug/l

RT: 8.83 min Scan# 831

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 76 Resp: 62495

Ion Ratio Lower Upper

76 100

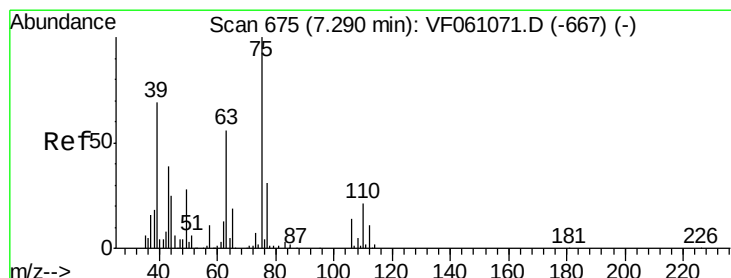
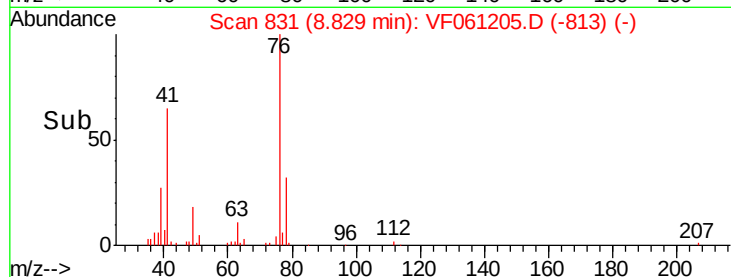
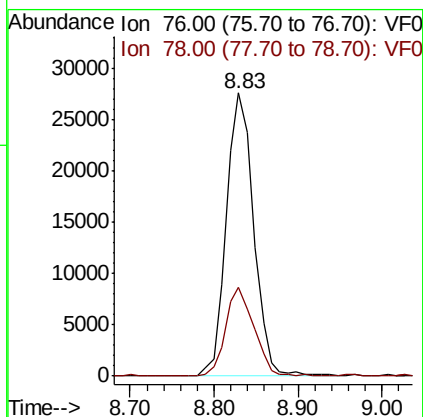
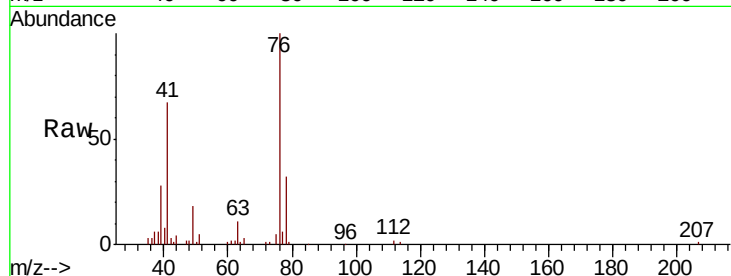
78 31.6 26.5 39.7

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 70.107 ug/l

RT: 7.27 min Scan# 673

Delta R.T. -0.02 min

Lab File: VF061205.D

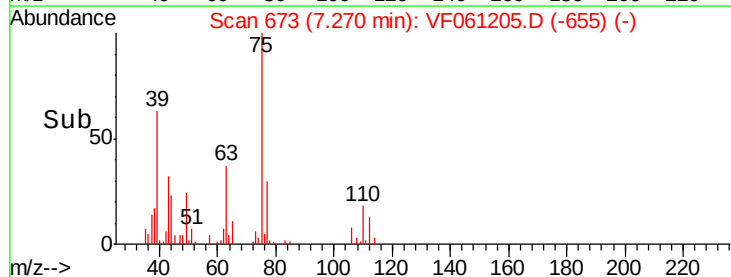
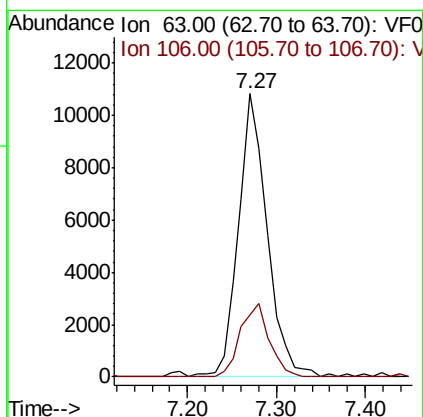
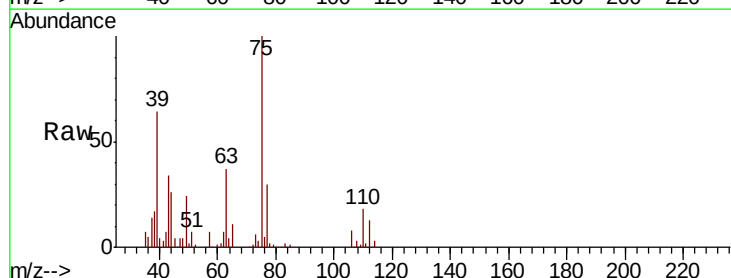
Acq: 27 Dec 2018 13:47

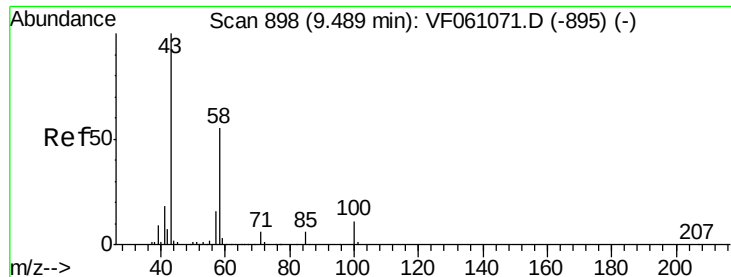
Tgt Ion: 63 Resp: 24323

Ion Ratio Lower Upper

63 100

106 21.9 19.8 29.8





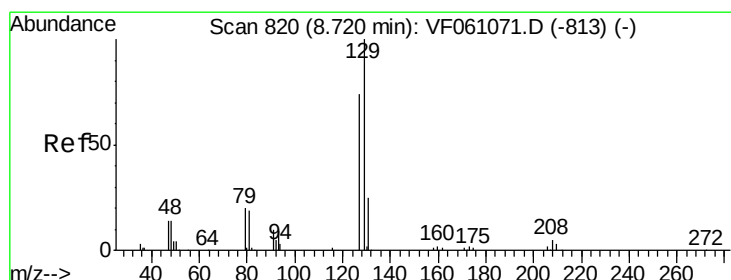
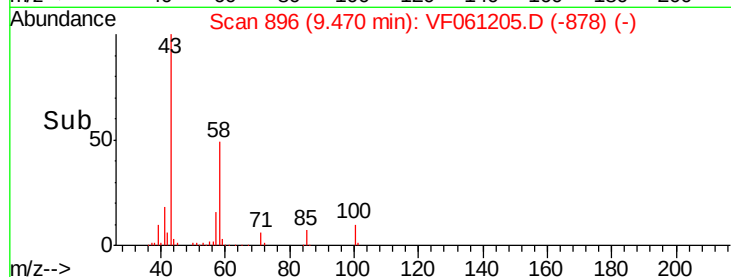
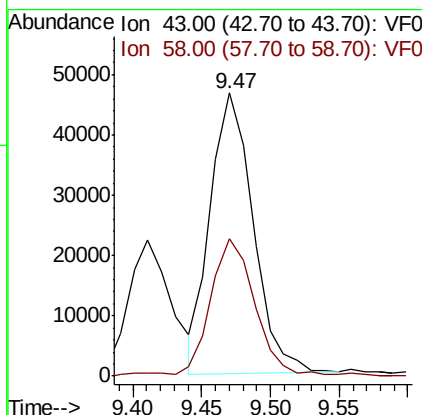
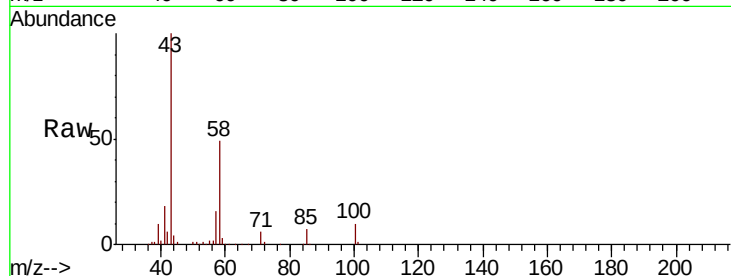
#59
2-Hexanone
Concen: 107.151 ug/l
RT: 9.47 min Scan# 896
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.7	25.1	75.2

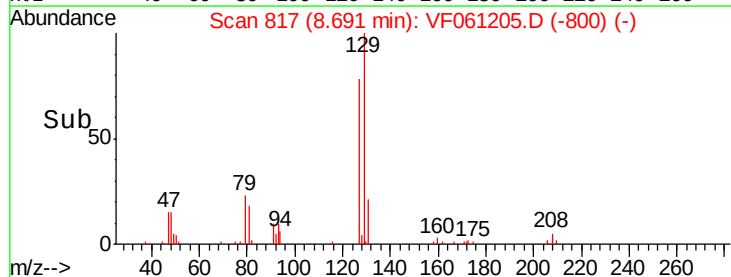
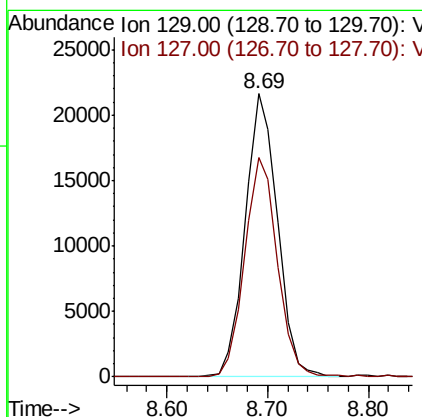
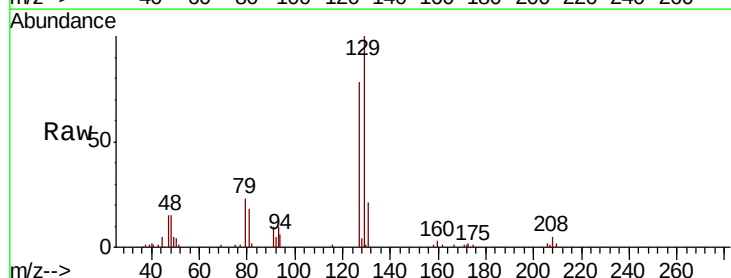
Manual Integrations
APPROVED

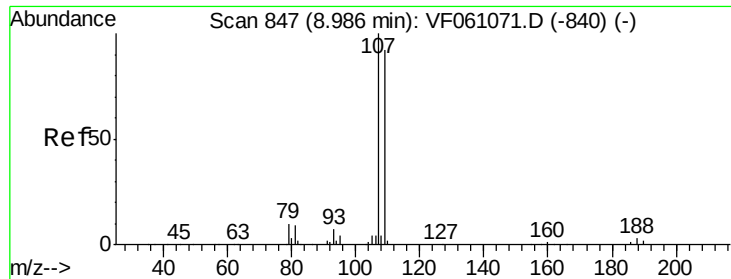
MMDadoda
12/28/2018 9:38:23 AM



#60
Dibromochloromethane
Concen: 20.123 ug/l
RT: 8.69 min Scan# 817
Delta R.T. -0.03 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.7	36.8	110.3





#61

1,2-Dibromoethane

Concen: 20.328 ug/l

RT: 8.97 min Scan# 845

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion:107 Resp: 36244

Ion Ratio Lower Upper

107 100

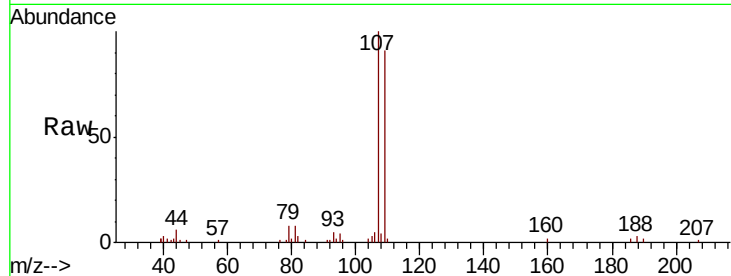
109 91.4 73.7 110.5

Manual Integrations

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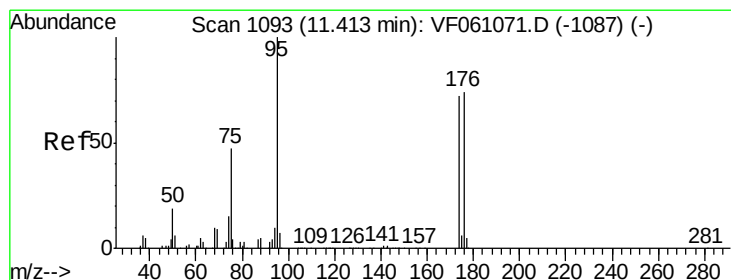
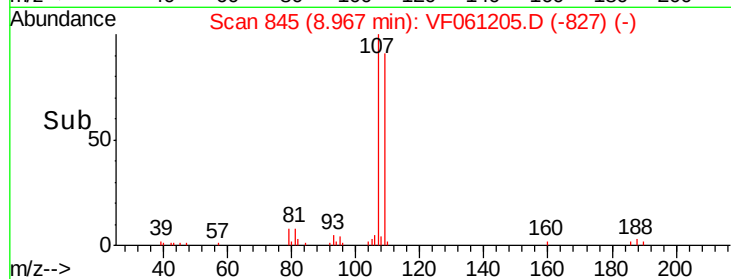
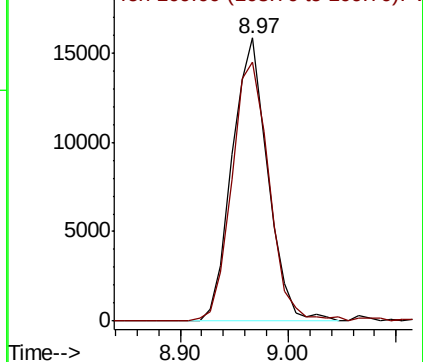
MMDadoda

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 50.657 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

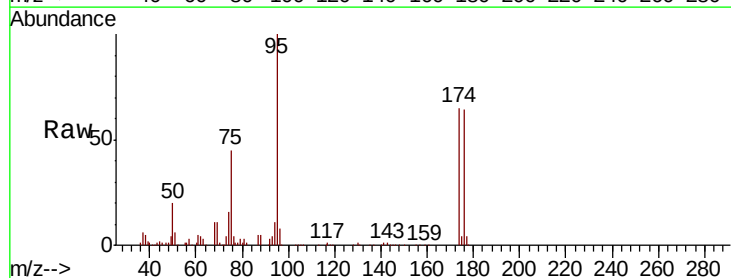
Tgt Ion: 95 Resp: 171815

Ion Ratio Lower Upper

95 100

174 65.2 0.0 143.8

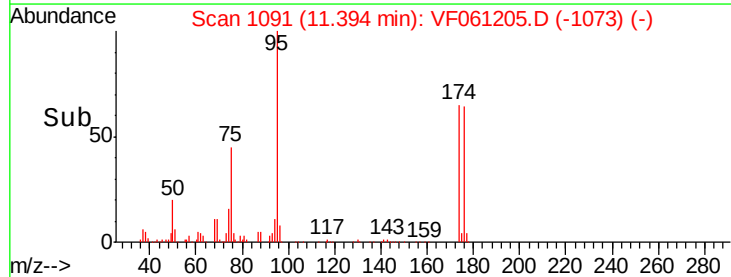
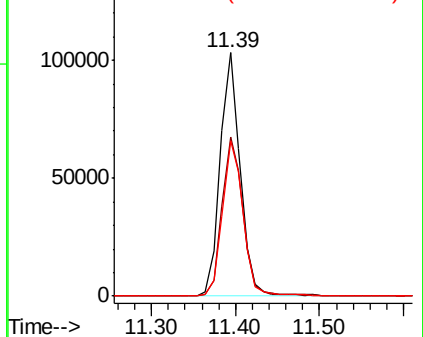
176 63.8 0.0 147.6

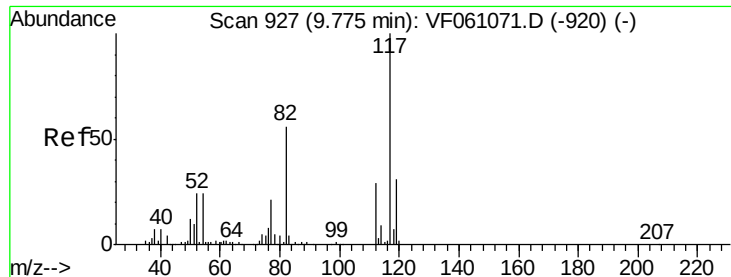


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





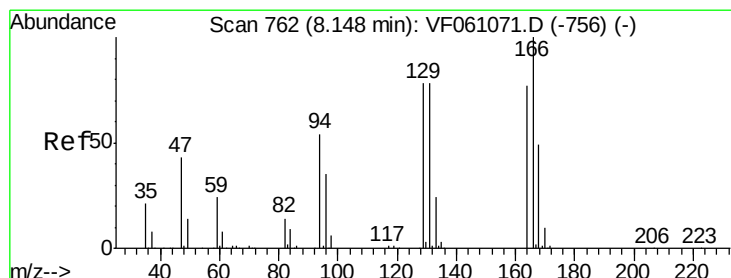
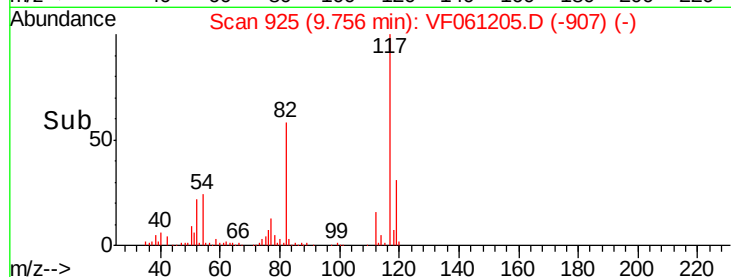
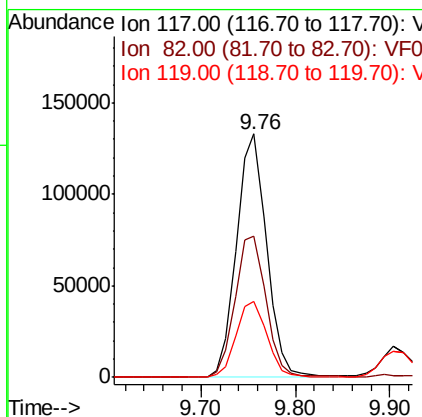
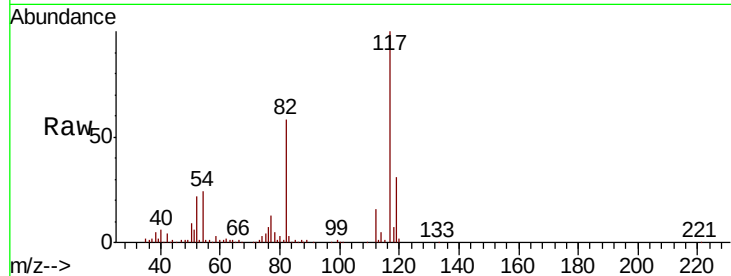
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 925
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	294663		
82	58.2	45.0	67.4	
119	31.1	24.8	37.2	

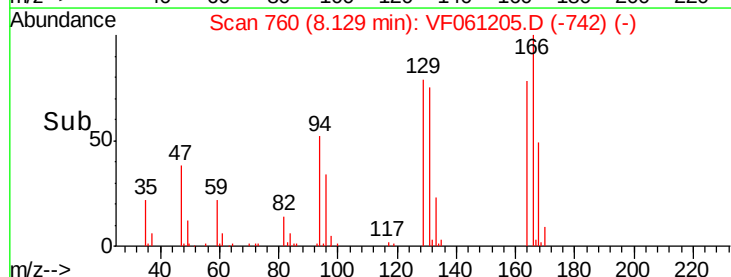
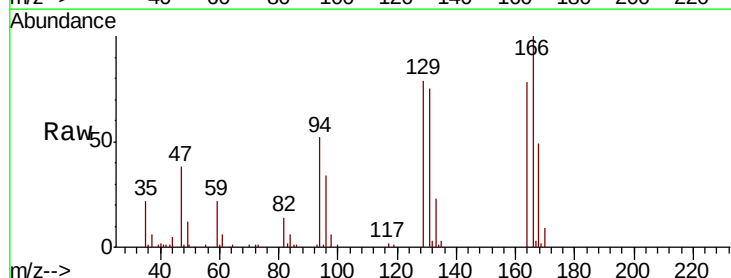
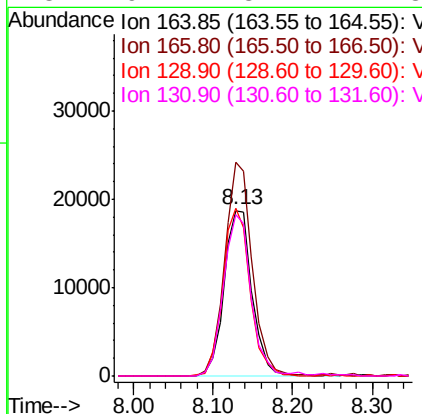
Manual Integrations
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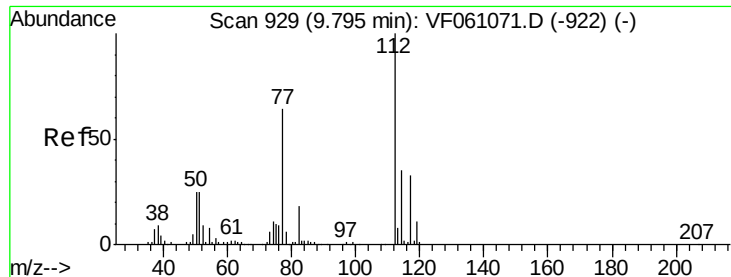
MMDadoda
12/28/2018 9:38:23 AM



#64
Tetrachloroethene
Concen: 20.425 ug/l
RT: 8.13 min Scan# 760
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	46298		
166	128.9	104.0	156.0	
129	101.5	81.1	121.7	
131	97.1	81.2	121.8	





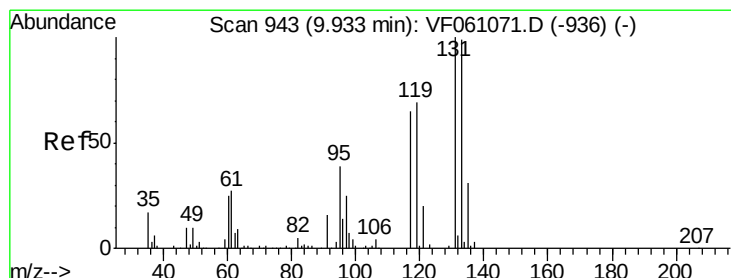
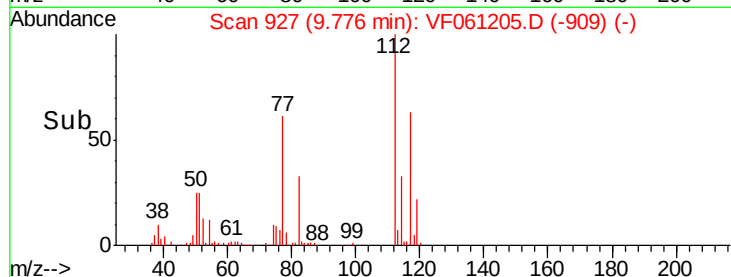
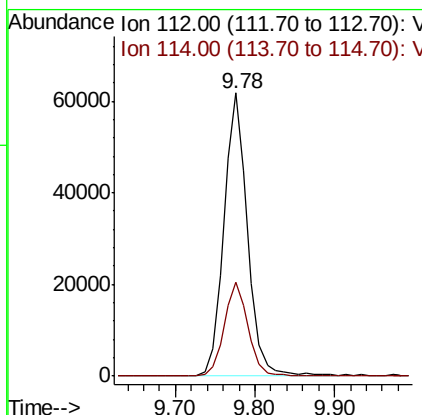
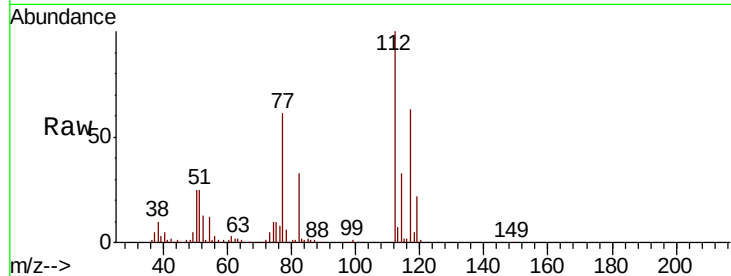
#65
Chlorobenzene
Concen: 21.186 ug/l
RT: 9.78 min Scan# 927
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.2	27.8	41.6

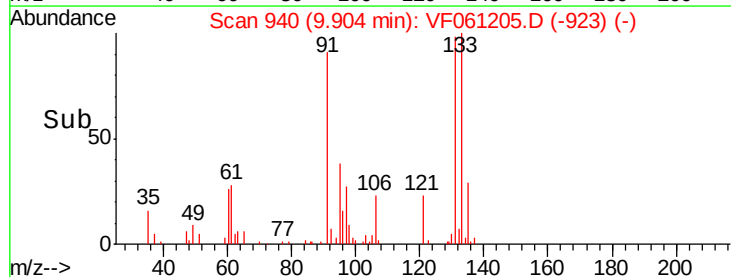
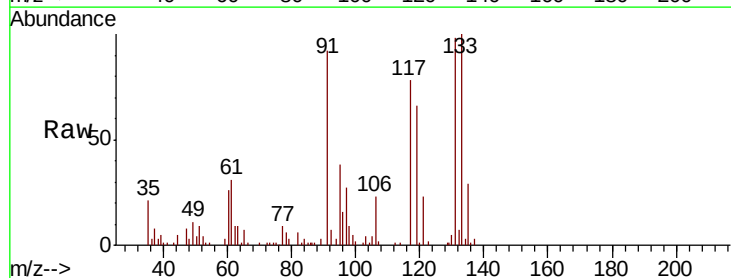
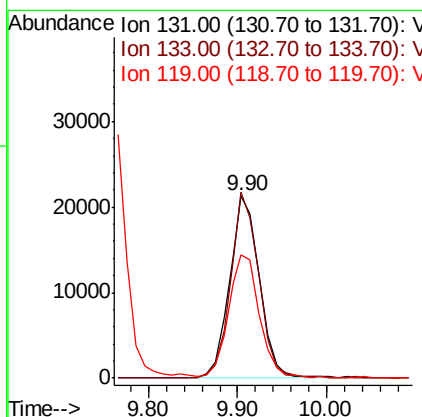
Manual Integrations
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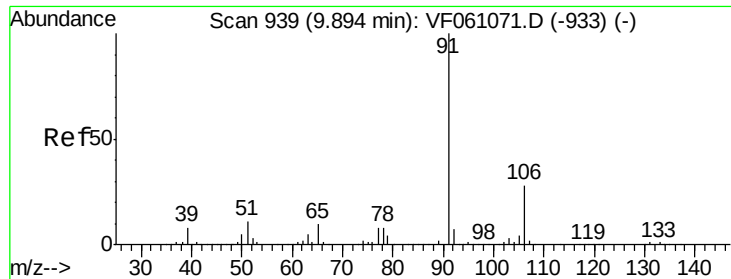
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.990 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.03 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
131	100		
133	101.9	49.5	148.7
119	67.4	34.5	103.5





#67

Ethyl Benzene

Concen: 21.530 ug/l

RT: 9.87 min Scan# 937

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 91 Resp: 238772

Ion Ratio Lower Upper

91 100

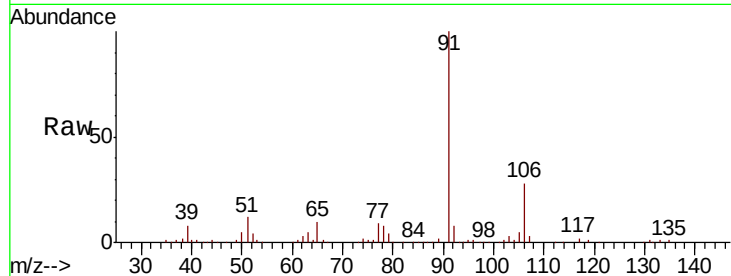
106 28.3 22.5 33.7

Manual Integrations

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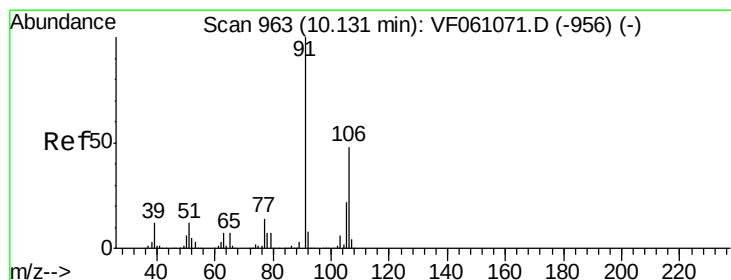
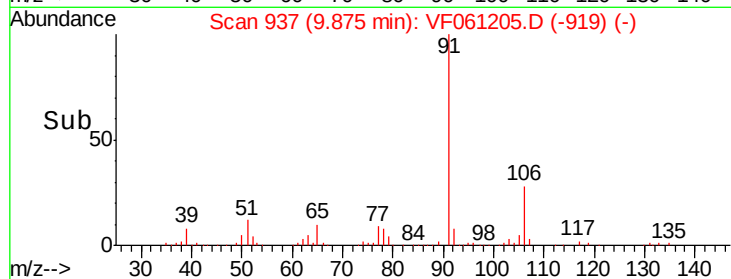
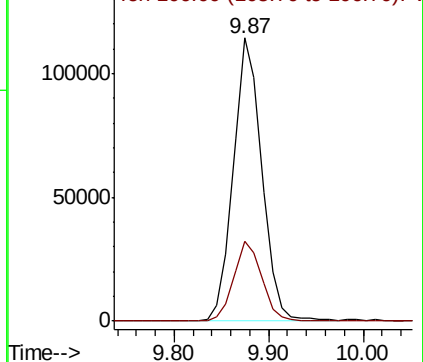
MMDadoda

12/28/2018 9:38:23 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 43.458 ug/l

RT: 10.11 min Scan# 961

Delta R.T. -0.02 min

Lab File: VF061205.D

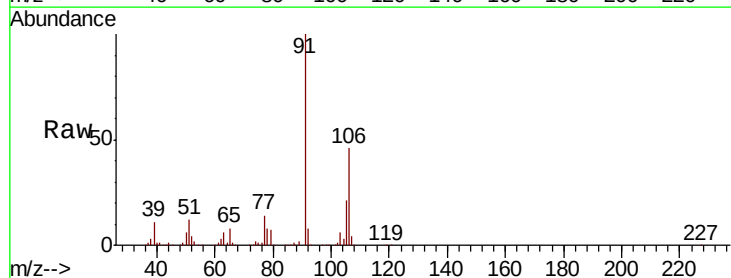
Acq: 27 Dec 2018 13:47

Tgt Ion: 106 Resp: 169607

Ion Ratio Lower Upper

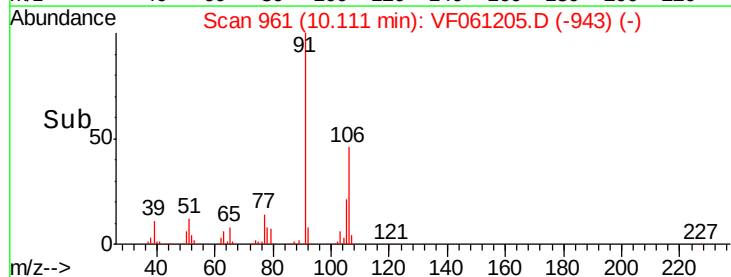
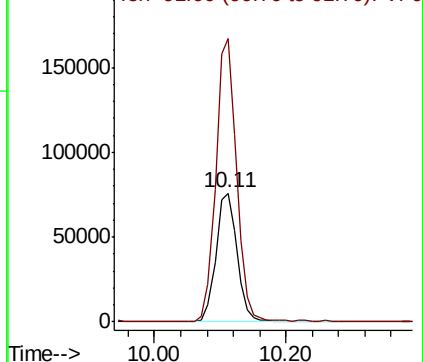
106 100

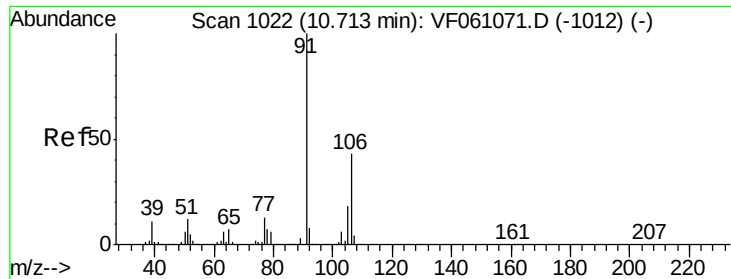
91 219.4 168.2 252.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





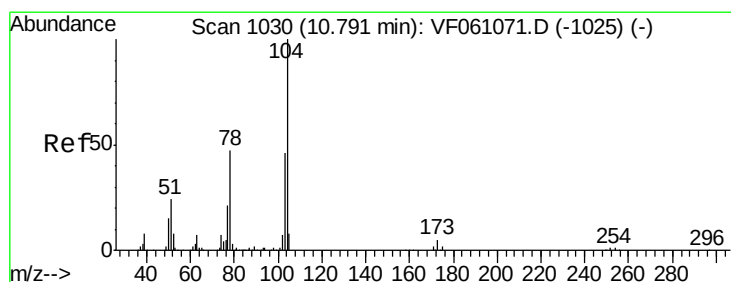
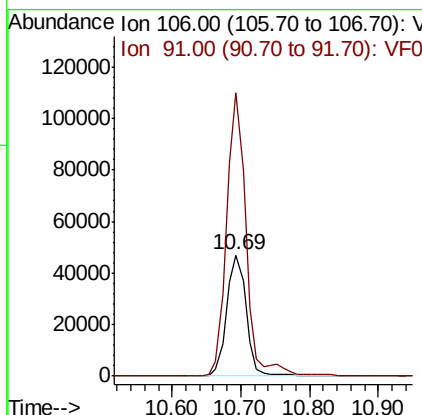
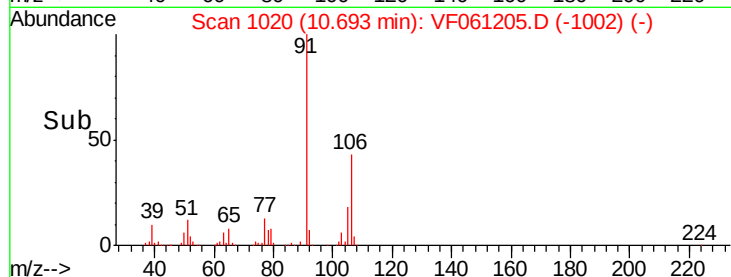
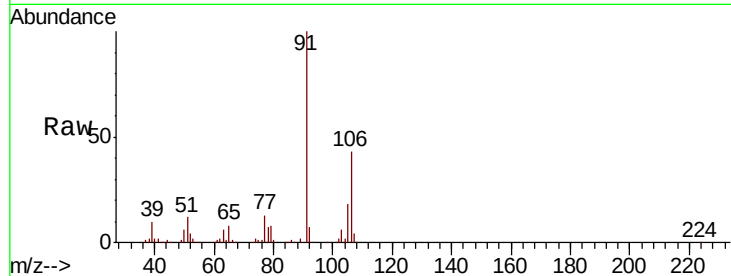
#69
o-Xylene
Concen: 21.431 ug/l
RT: 10.69 min Scan# 1020
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion:106 Resp: 92765
Ion Ratio Lower Upper
106 100
91 234.3 115.9 347.7

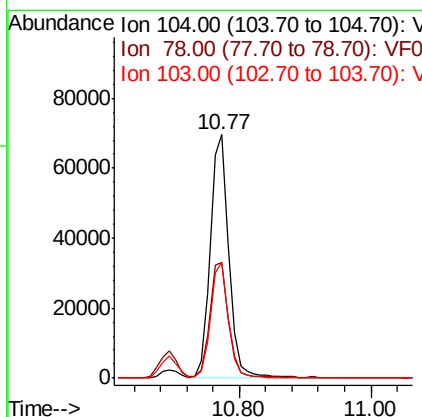
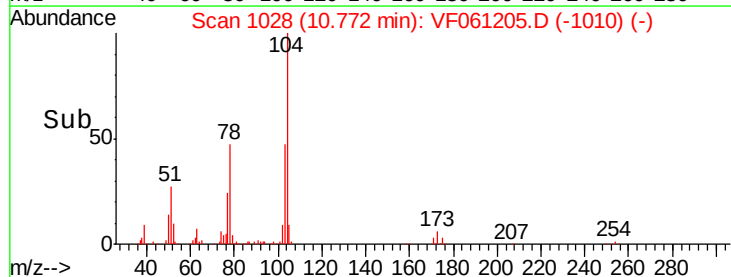
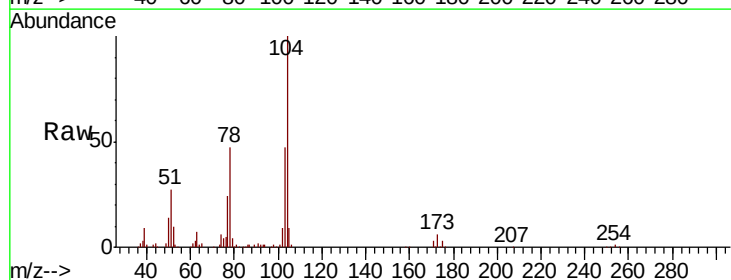
Manual Integrations
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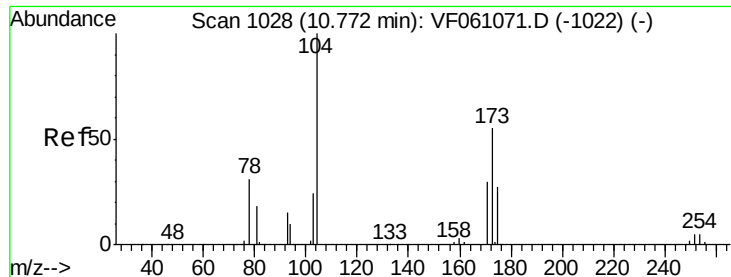
MMDadoda
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#70
Styrene
Concen: 22.680 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion:104 Resp: 133700
Ion Ratio Lower Upper
104 100
78 47.2 38.4 57.6
103 47.5 37.0 55.6





#71

Bromoform

Concen: 21.051 ug/l

RT: 10.75 min Scan# 1026

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion:173 Resp: 24228

Ion Ratio Lower Upper

173 100

175 46.2 24.8 74.4

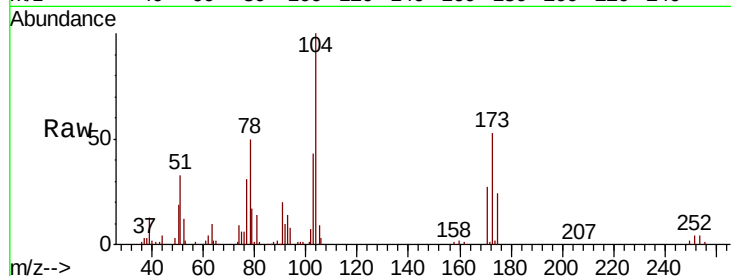
254 8.2 0.0 0.0#

Manual Integrations

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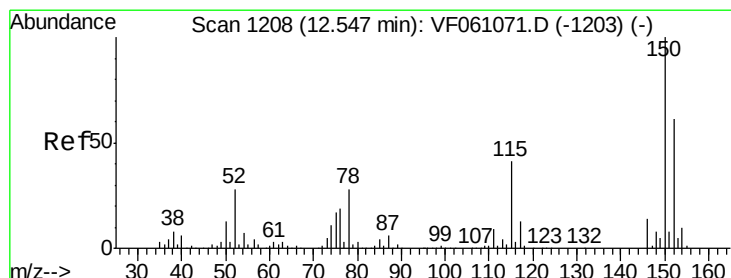
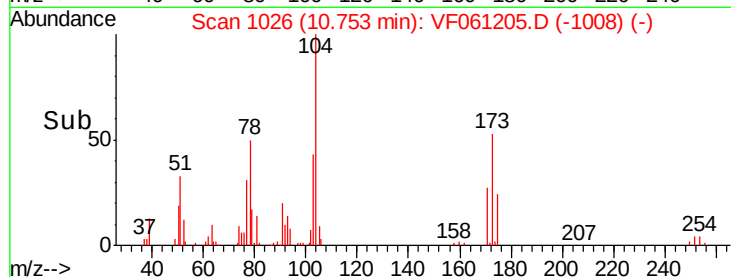
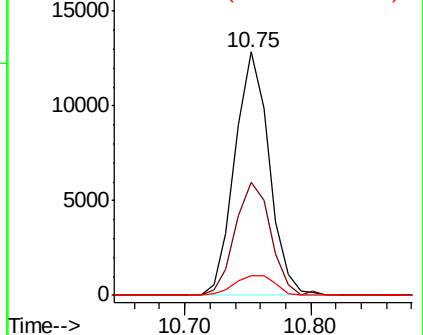
12/28/2018 9:38:23 AM



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

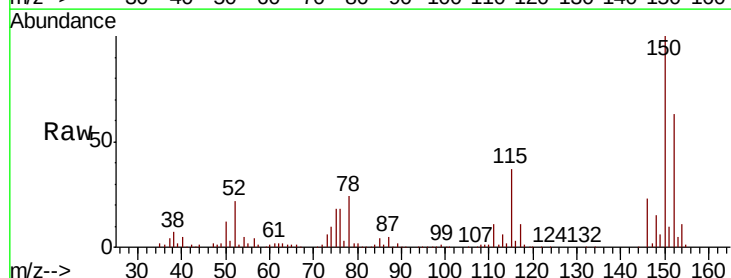
Tgt Ion:152 Resp: 147700

Ion Ratio Lower Upper

152 100

115 58.1 33.3 99.9

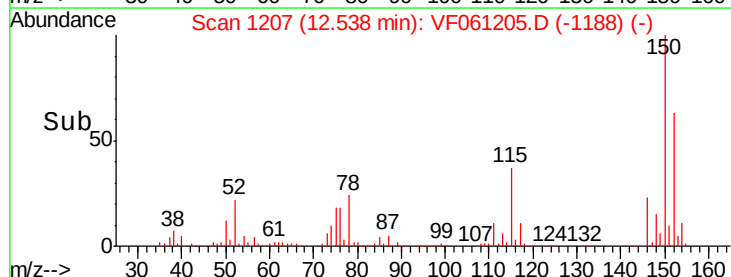
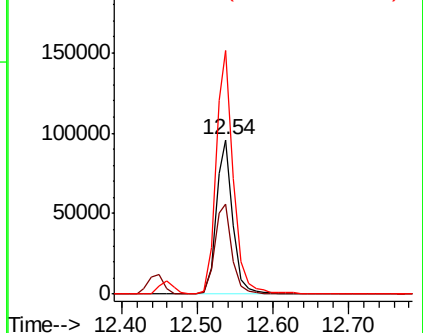
150 157.7 0.0 328.2

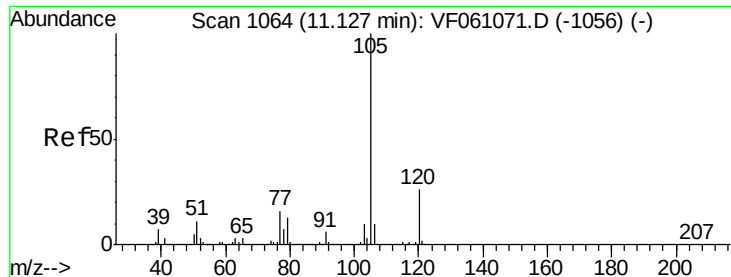


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 22.262 ug/l

RT: 11.11 min Scan# 1062

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 105 Resp: 283355

Ion Ratio Lower Upper

105 100

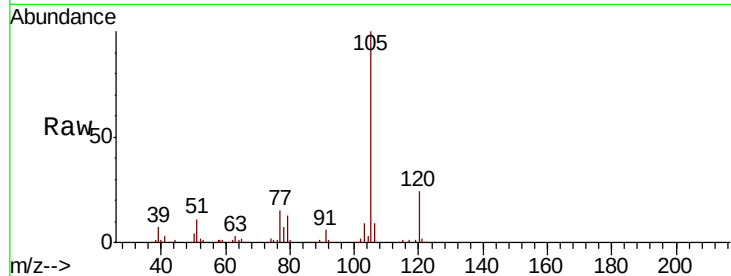
120 24.3 13.0 39.0

Manual Integrations

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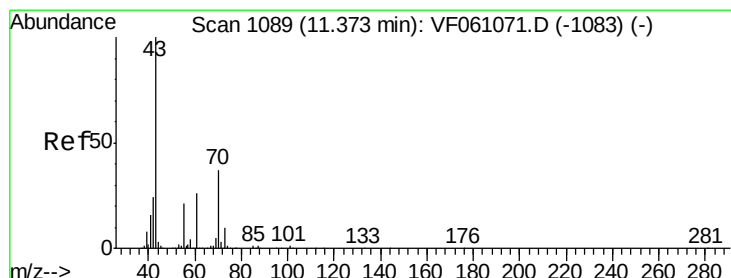
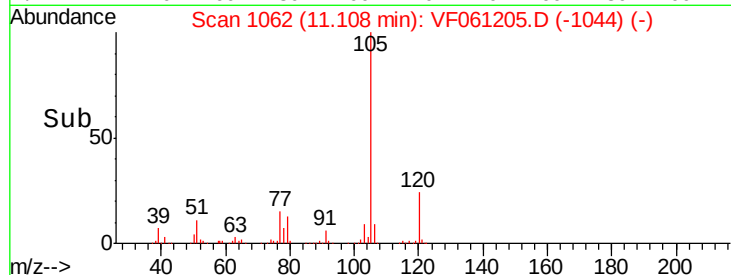
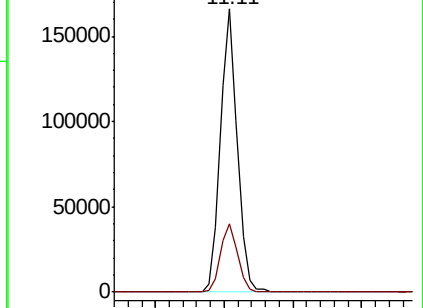
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.116 ug/l

RT: 11.35 min Scan# 1087

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tgt Ion: 43 Resp: 65321

Ion Ratio Lower Upper

43 100

70 35.9 29.2 43.8

55 19.4 16.5 24.7

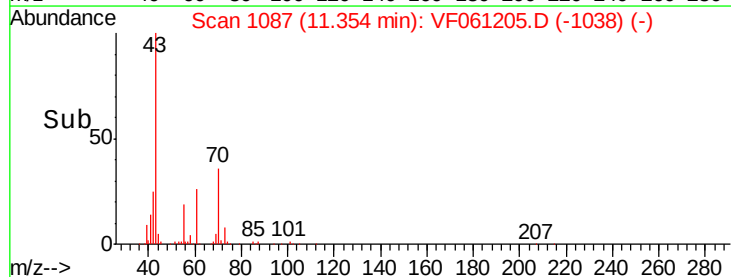
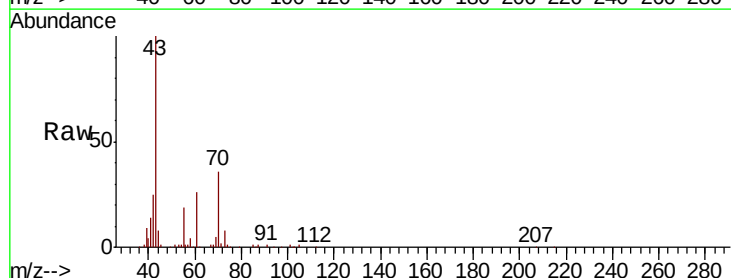
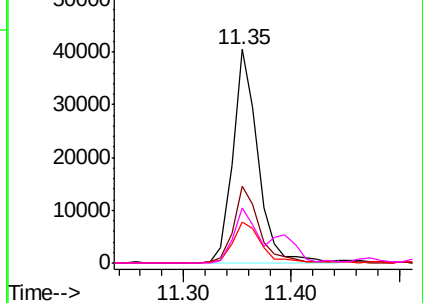
61 25.5 20.7 31.1

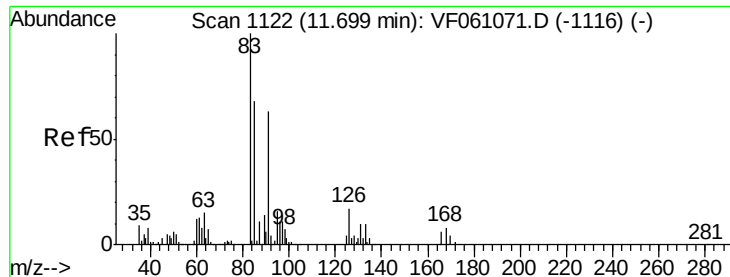
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 22.335 ug/l

RT: 11.68 min Scan# 1120

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

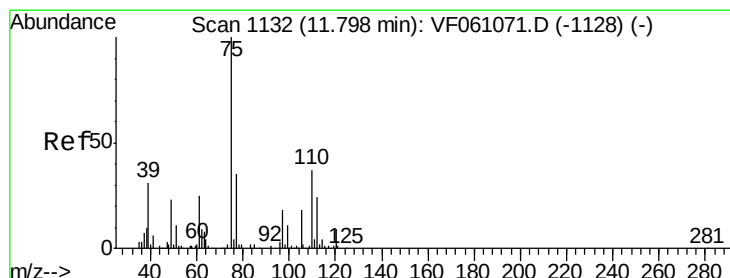
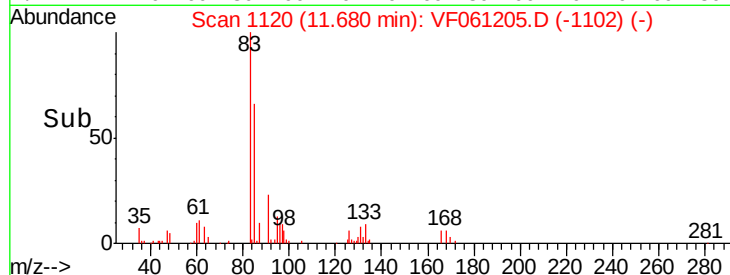
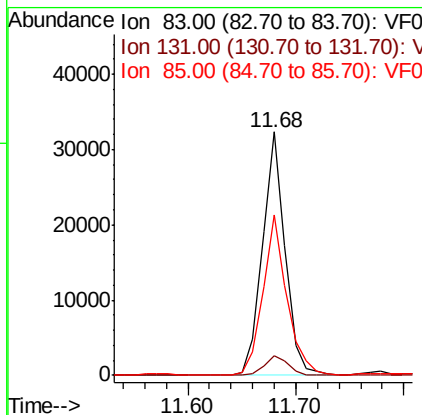
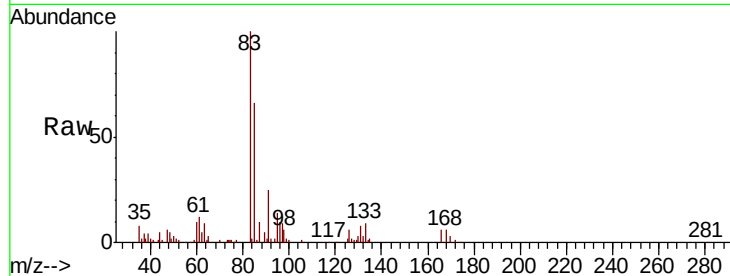
ClientSampleId :

VF1227SBS01

Tot Ion	83	Resp	47182
Ion Ratio	100	Lower	Upper
83	100		
131	8.2	4.8	14.3
85	66.1	33.9	101.6

Manual Integrations
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12/28/2018 9:38:23 AM



#76

1,2,3-Trichloropropane

Concen: 21.592 ug/l

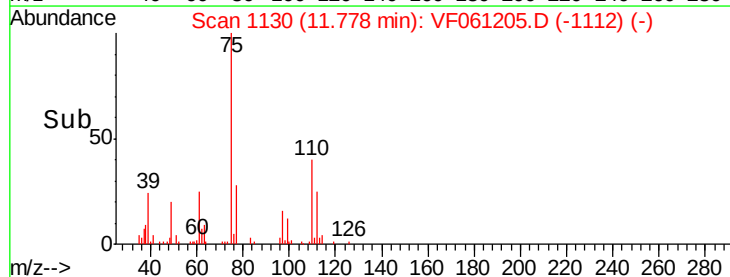
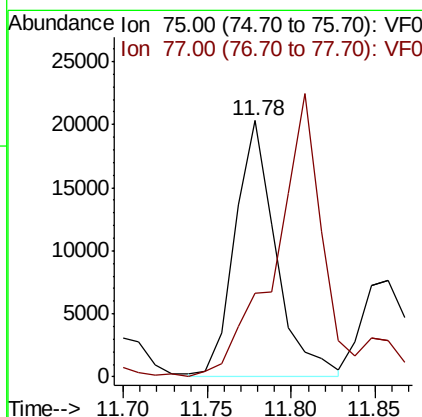
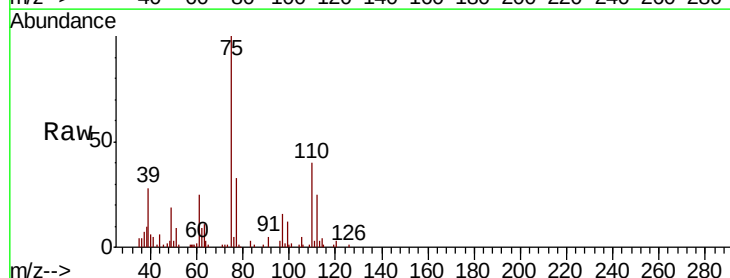
RT: 11.78 min Scan# 1130

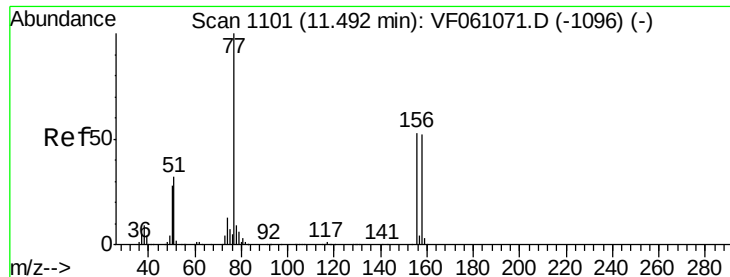
Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Tgt Ion	75	Resp	33944
Ion Ratio	100	Lower	Upper
75	100		
77	32.6	17.6	52.9





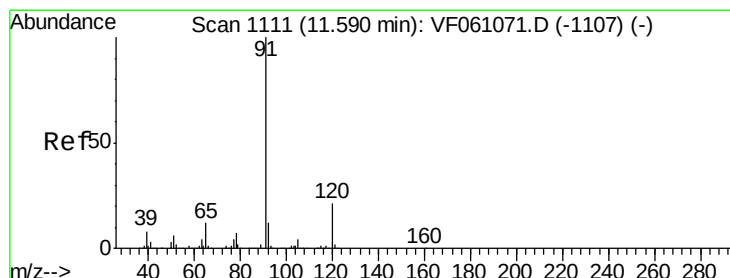
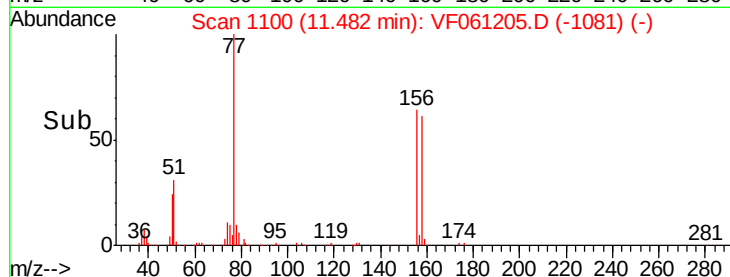
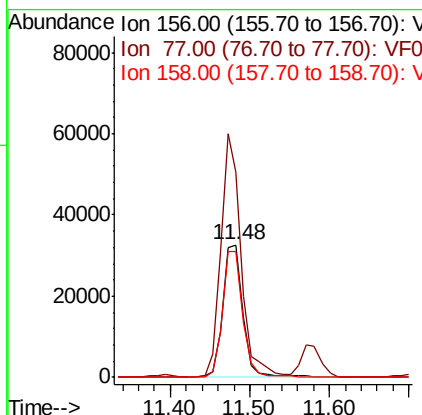
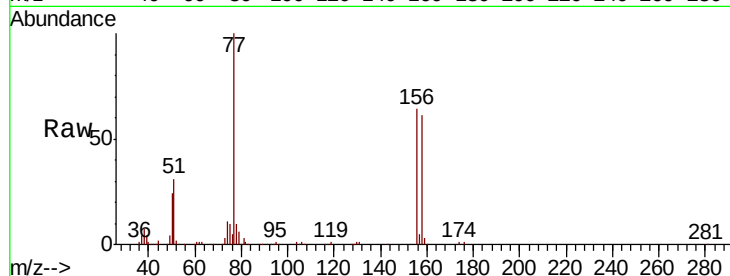
#77
Bromobenzene
Concen: 21.440 ug/l
RT: 11.48 min Scan# 1100
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		58744		
77	155.4	93.8	281.4		
158	95.5	48.9	146.8		

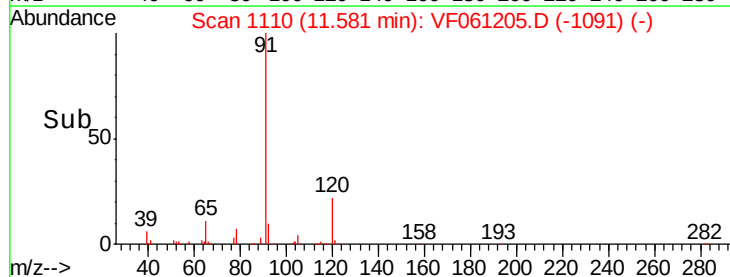
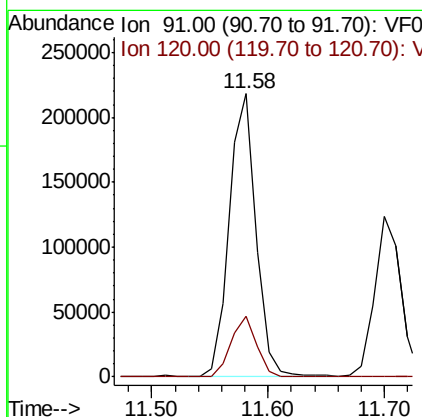
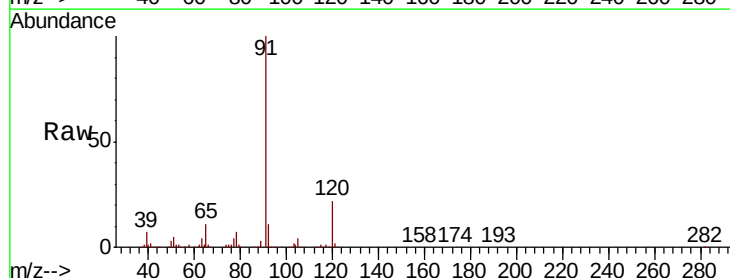
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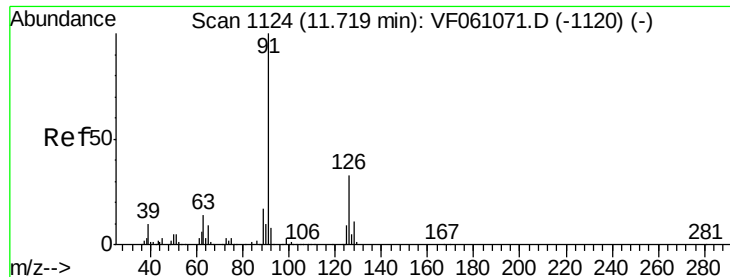
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#78
n-propylbenzene
Concen: 21.113 ug/l
RT: 11.58 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		347410		
120	21.6	10.4	31.2		





#79

2-Chlorotoluene

Concen: 21.957 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.02 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 91 Resp: 191713

Ion Ratio Lower Upper

91 100

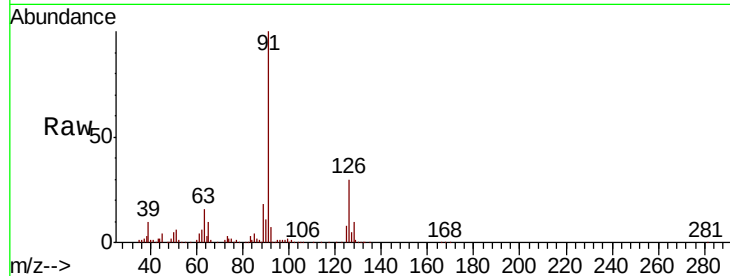
126 30.4 16.4 49.1

Manual Integrations

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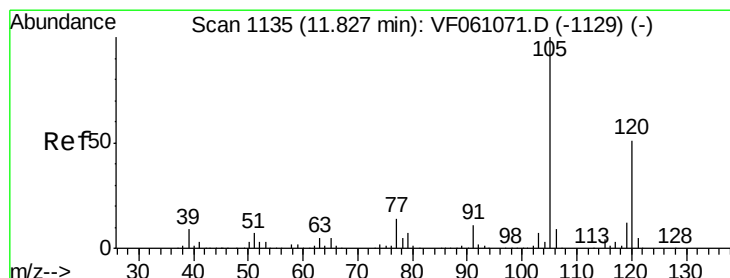
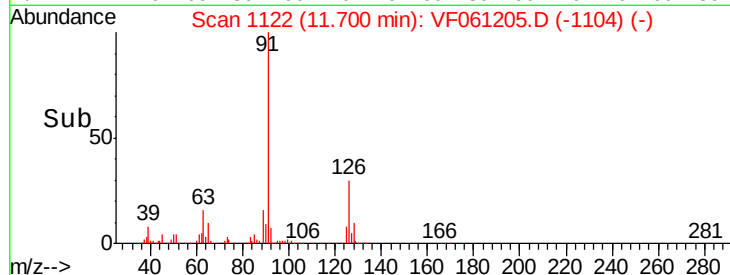
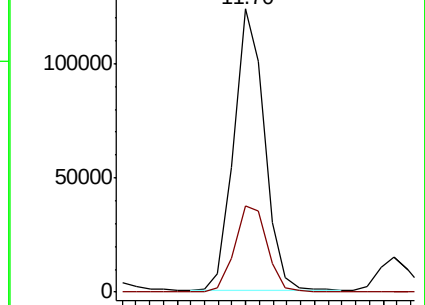
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Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 21.481 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. -0.02 min

Lab File: VF061205.D

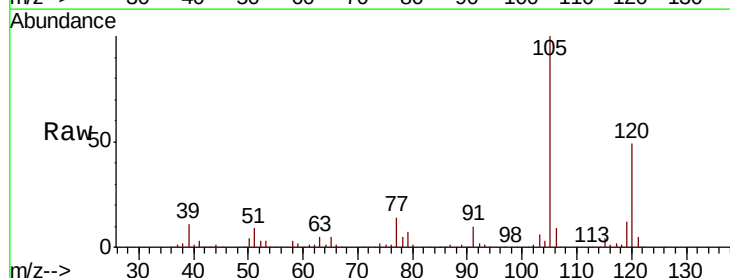
Acq: 27 Dec 2018 13:47

Tgt Ion:105 Resp: 225136

Ion Ratio Lower Upper

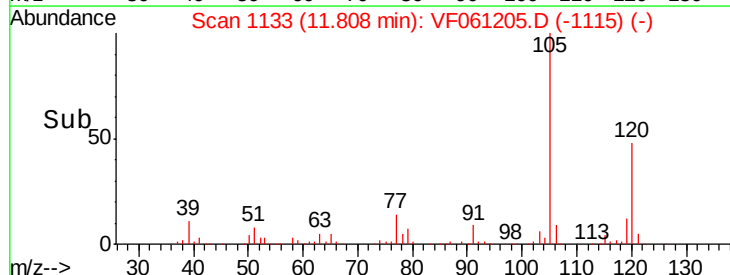
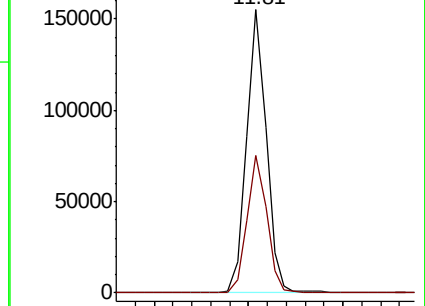
105 100

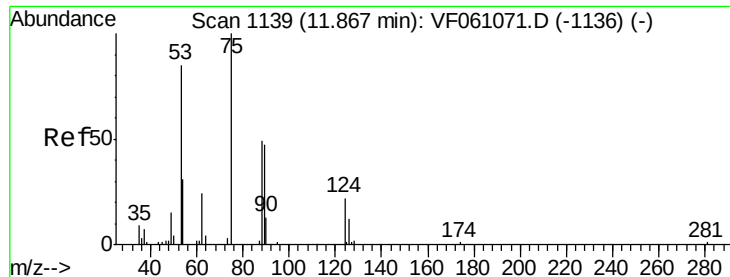
120 48.5 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 29.605 ug/l

RT: 11.86 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion: 75 Resp: 19999

Ion Ratio Lower Upper

75 100

53 83.6 74.1 111.1

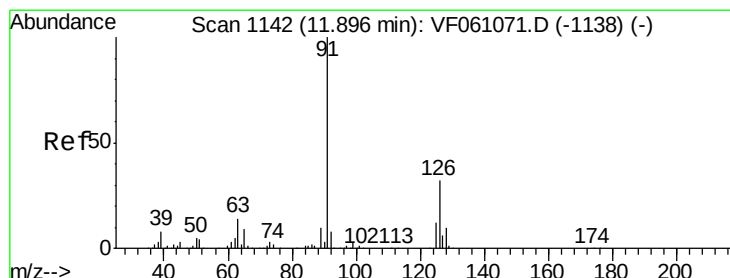
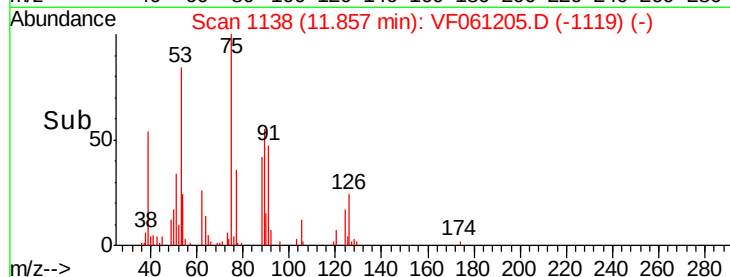
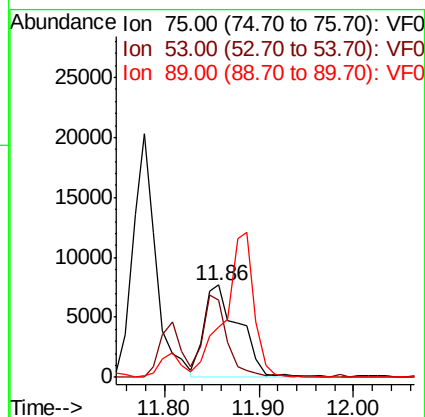
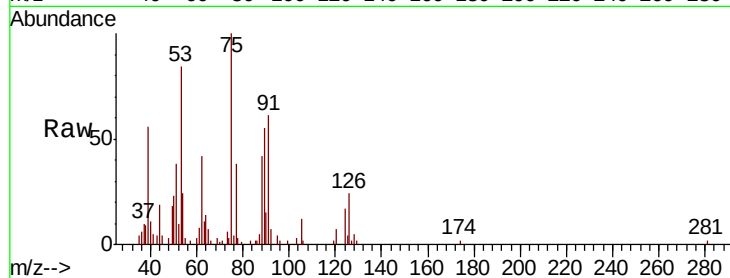
89 55.1 42.6 64.0

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#82

4-Chlorotoluene

Concen: 21.439 ug/l

RT: 11.89 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF061205.D

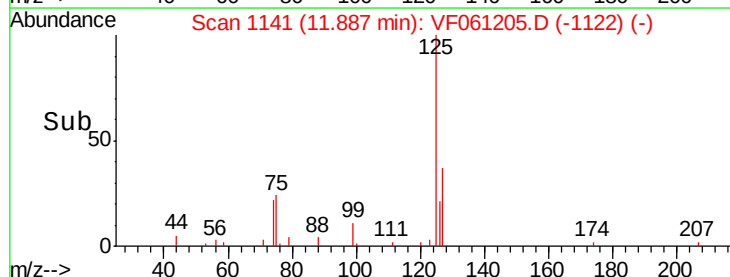
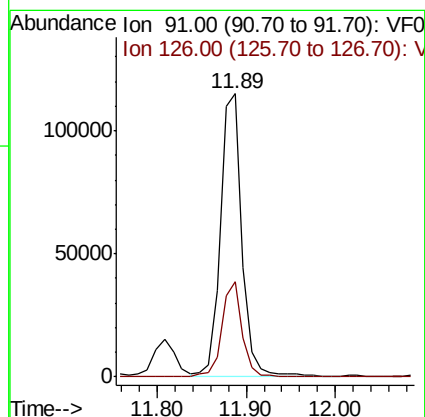
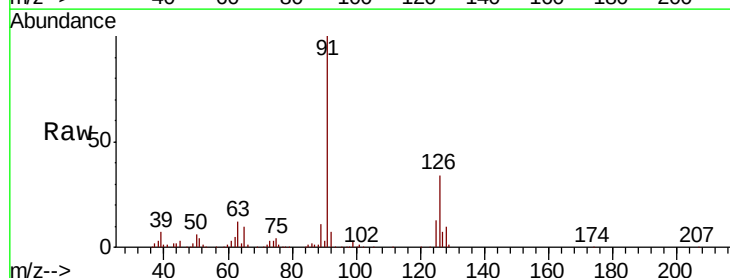
Acq: 27 Dec 2018 13:47

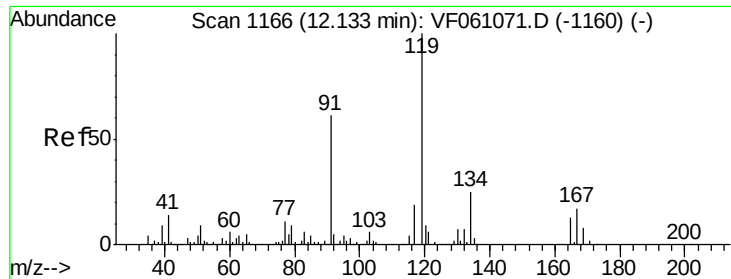
Tgt Ion: 91 Resp: 193648

Ion Ratio Lower Upper

91 100

126 33.7 16.0 47.9





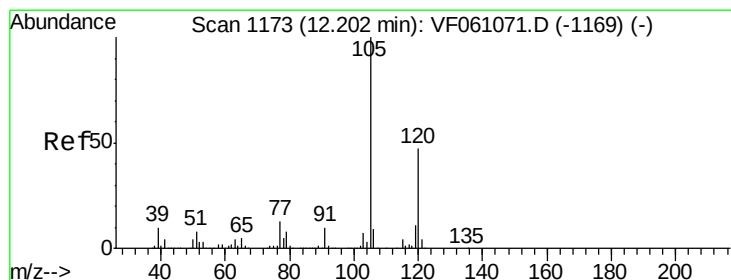
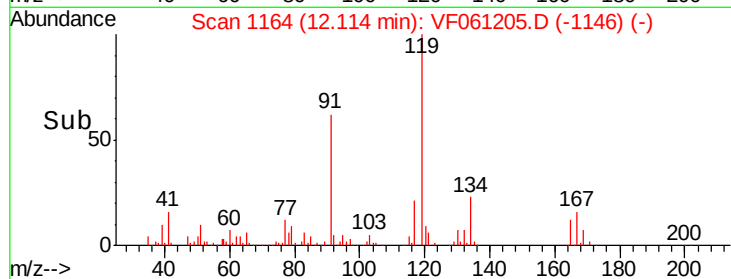
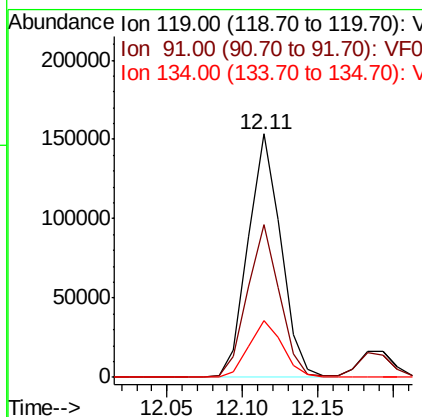
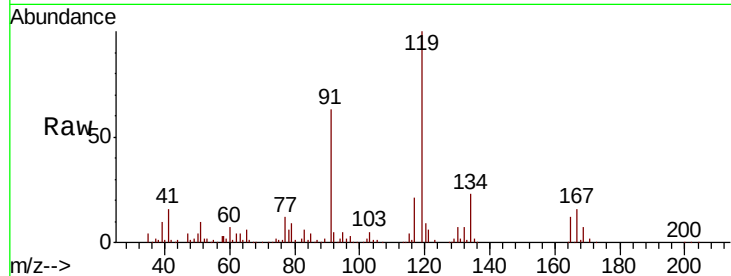
#83
tert-Butylbenzene
Concen: 21.676 ug/l
RT: 12.11 min Scan# 1164
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	233774		
91	62.6	30.5	91.5	
134	23.3	12.4	37.4	

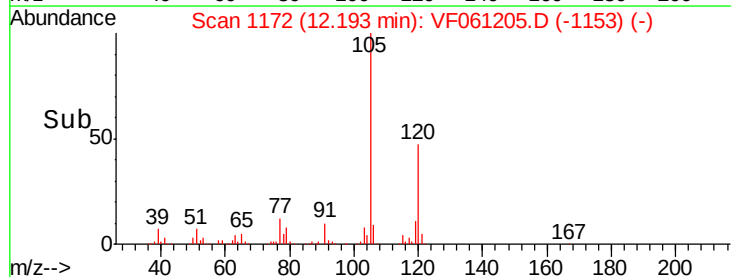
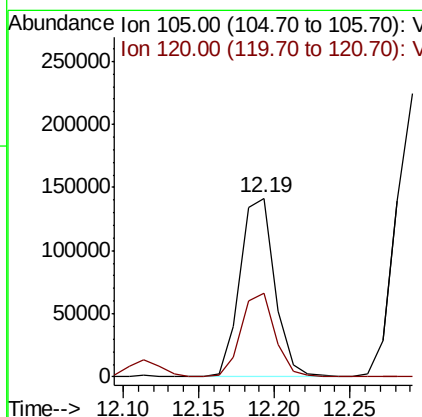
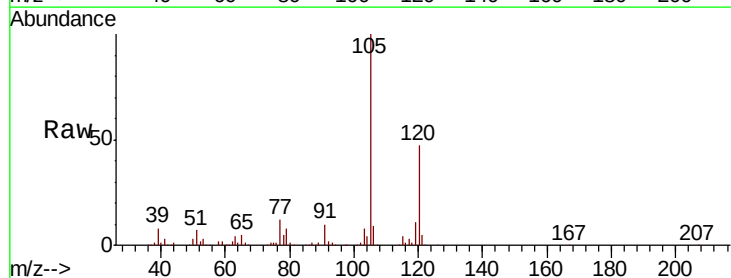
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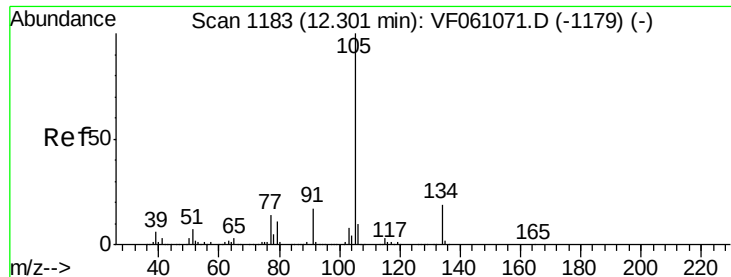
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#84
1,2,4-Trimethylbenzene
Concen: 21.780 ug/l
RT: 12.19 min Scan# 1172
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	227629		
120	46.6	23.6	71.0	





#85

sec-Butylbenzene

Concen: 22.629 ug/l

RT: 12.29 min Scan# 1182

Delta R.T. -0.01 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

Instrument :

MSVOA_F

ClientSampleId :

VF1227SBS01

Tot Ion:105 Resp: 318491

Ion Ratio Lower Upper

105 100

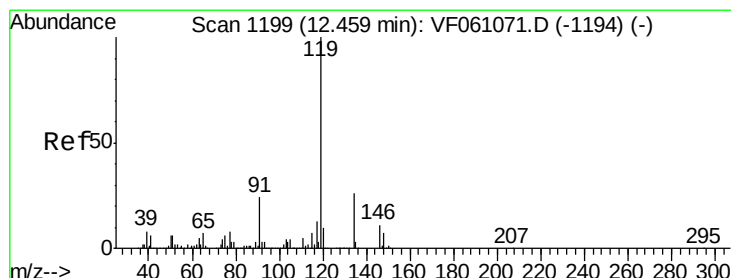
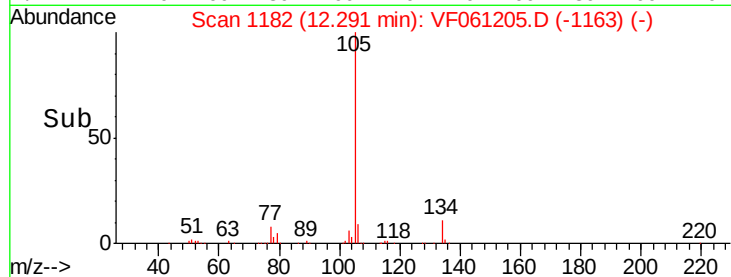
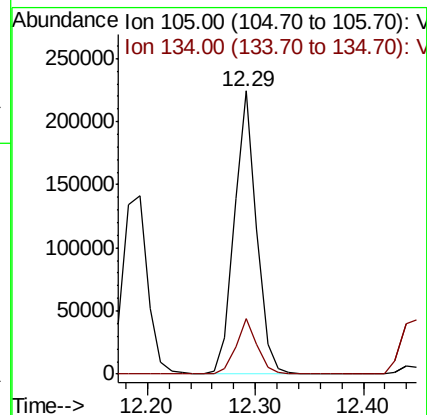
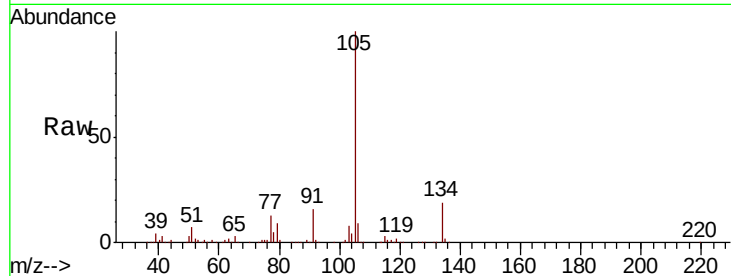
134 19.5 9.4 28.2

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#86

p-Isopropyltoluene

Concen: 23.092 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VF061205.D

Acq: 27 Dec 2018 13:47

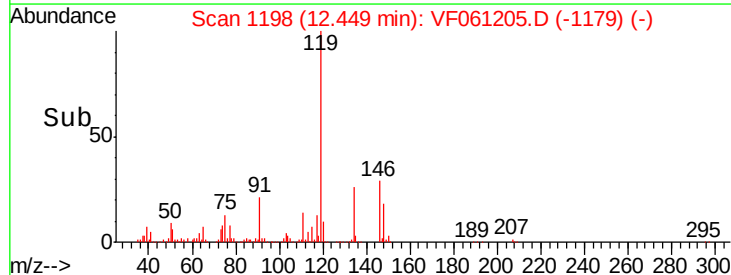
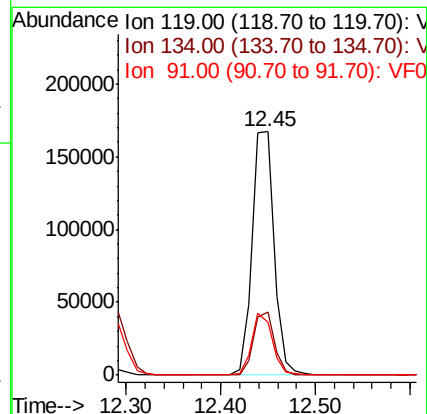
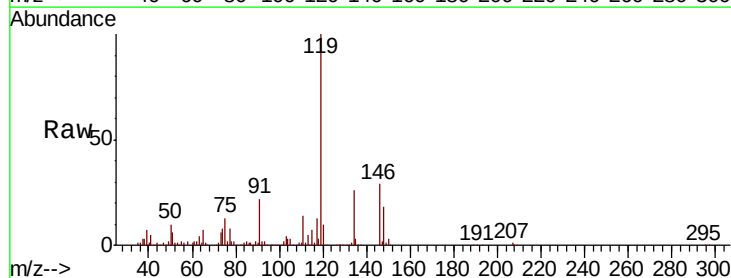
Tgt Ion:119 Resp: 269772

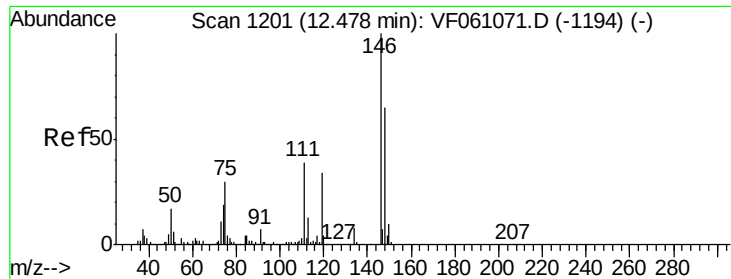
Ion Ratio Lower Upper

119 100

134 25.7 12.8 38.4

91 21.9 12.2 36.6





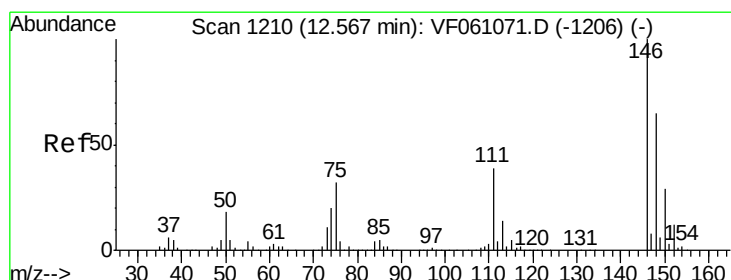
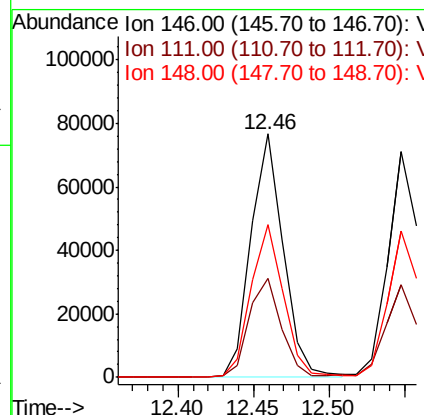
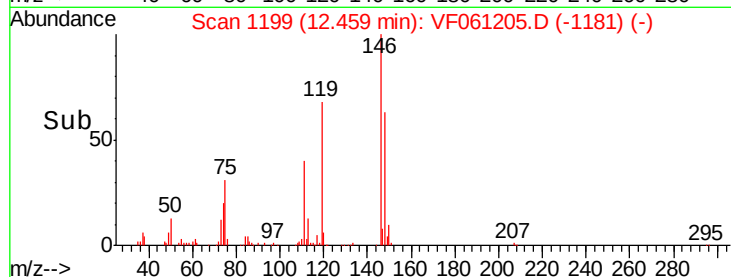
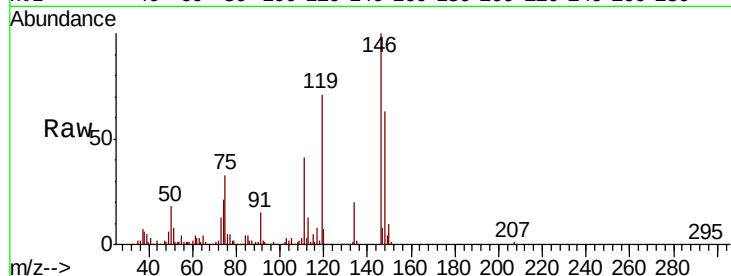
#87
 1,3-Dichlorobenzene
 Concen: 22.772 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	19.3	57.9
148	63.0	32.4	97.2

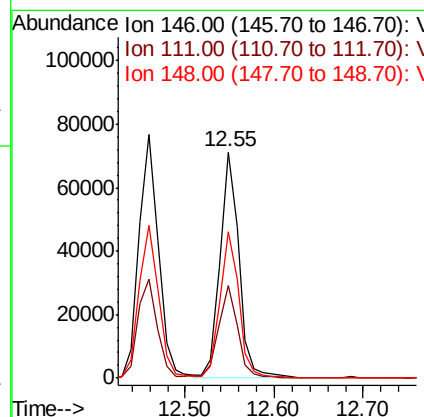
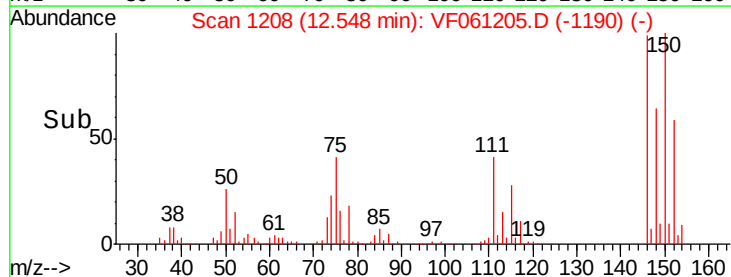
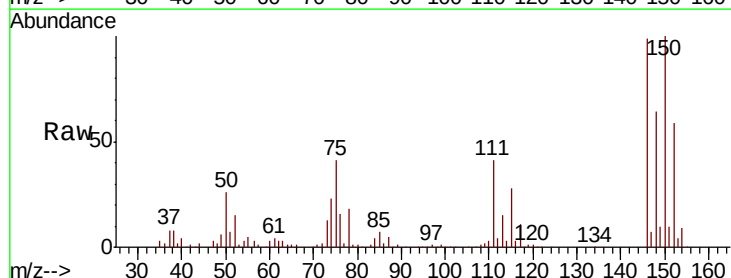
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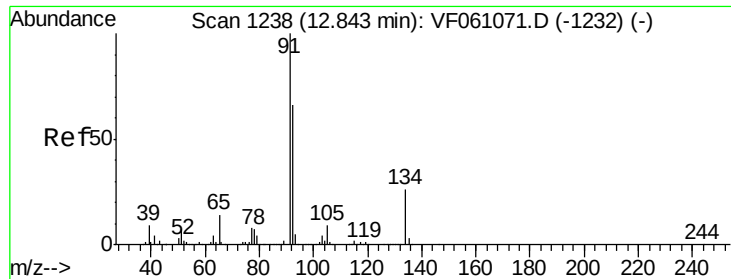
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#88
 1,4-Dichlorobenzene
 Concen: 21.097 ug/l
 RT: 12.55 min Scan# 1208
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	19.4	58.4
148	64.5	32.4	97.0





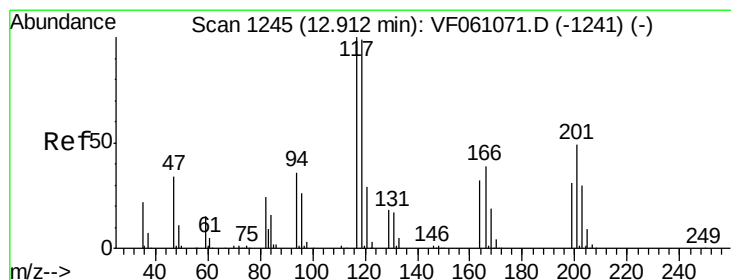
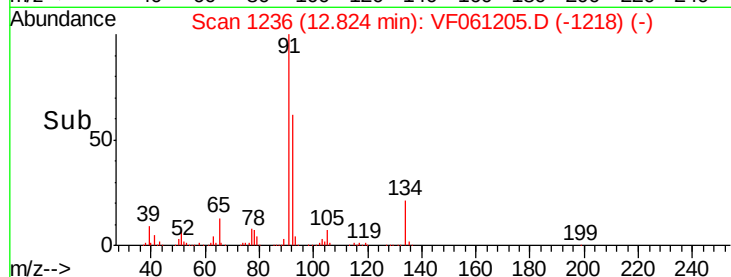
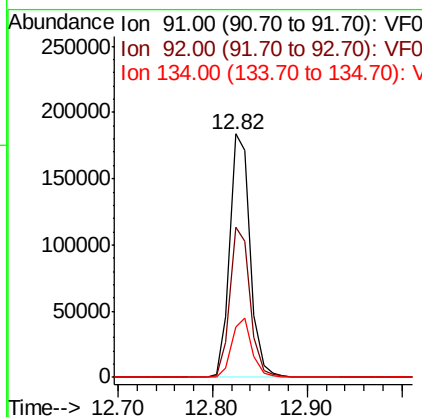
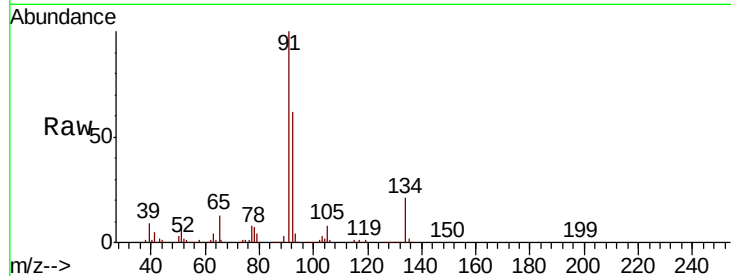
#89
n-Butylbenzene
Concen: 20.733 ug/l
RT: 12.82 min Scan# 1236
Delta R.T. -0.02 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	61.9	32.8	98.4
134	20.7	13.2	39.5

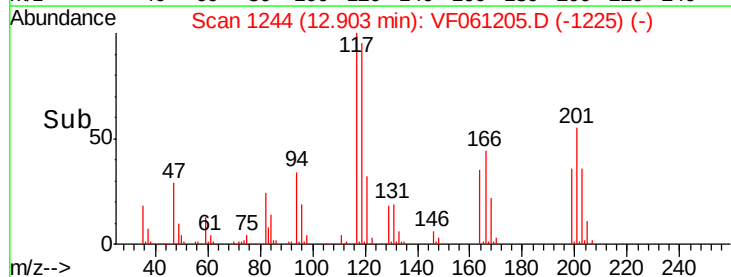
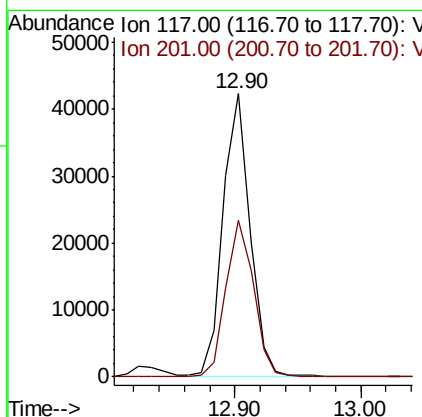
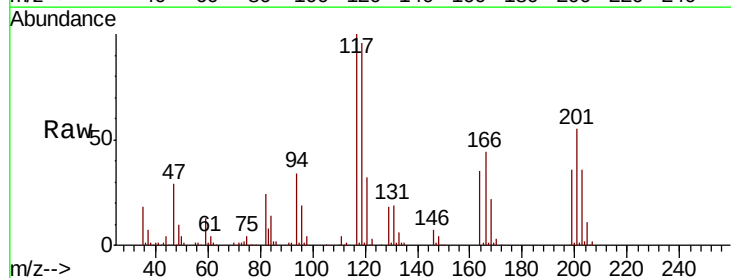
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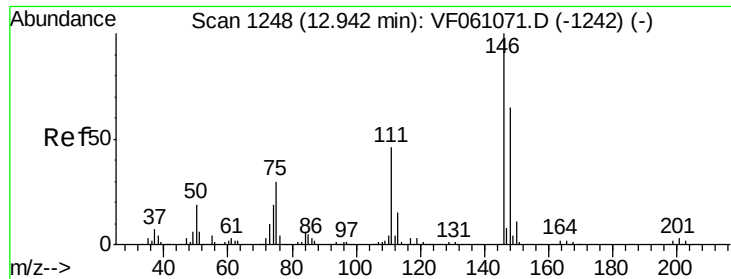
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#90
Hexachloroethane
Concen: 21.808 ug/l
RT: 12.90 min Scan# 1244
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	55.4	24.9	74.8





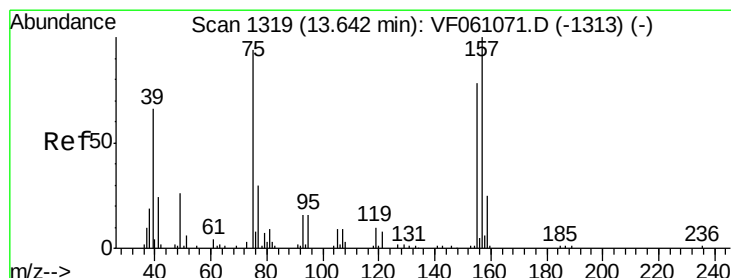
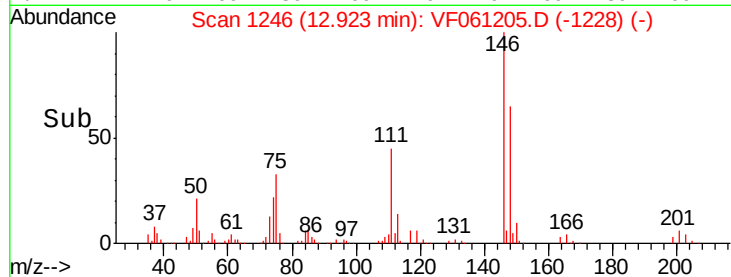
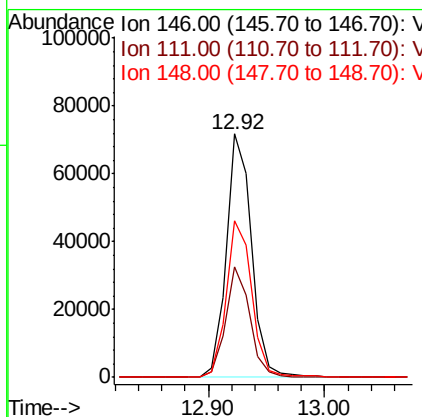
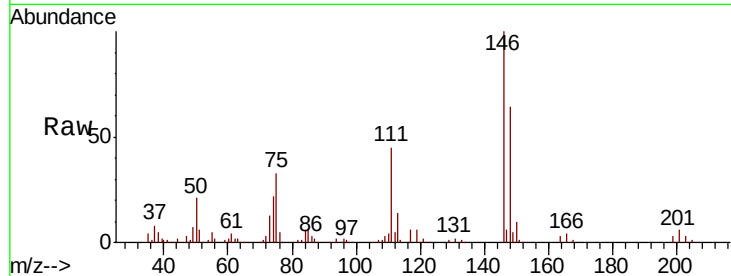
#91
 1,2-Dichlorobenzene
 Concen: 21.980 ug/l
 RT: 12.92 min Scan# 1246
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	107662		
111	45.1	23.2	69.5	
148	64.4	32.4	97.0	

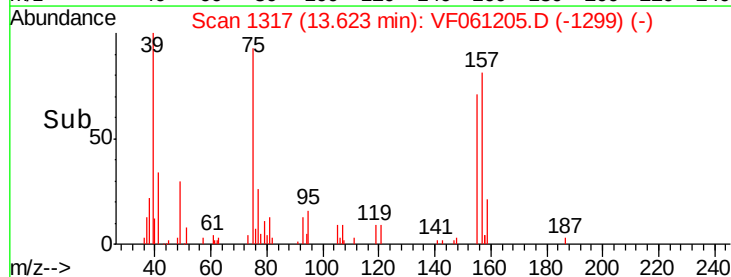
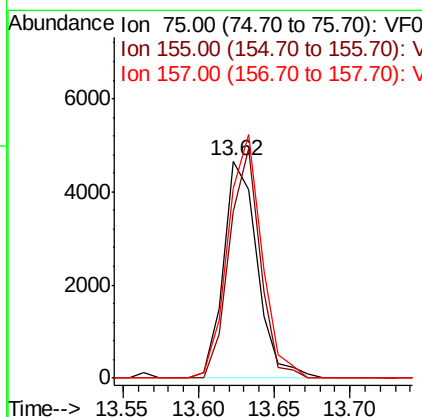
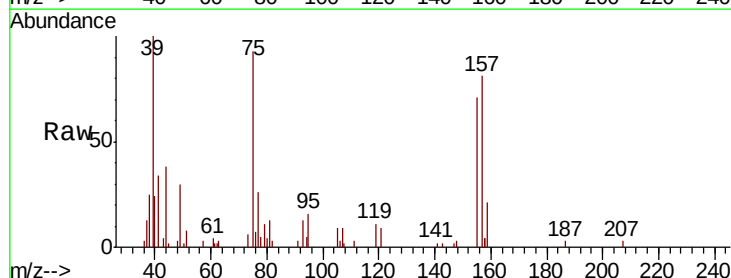
Manual Integrations
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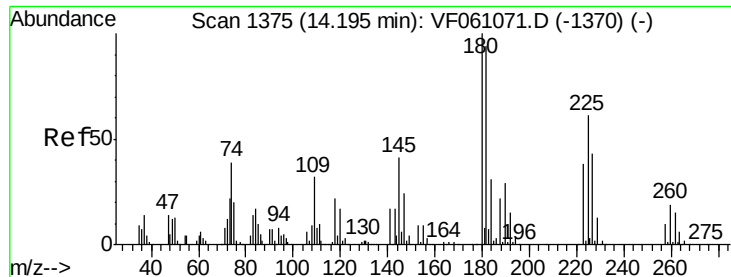
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.757 ug/l
 RT: 13.62 min Scan# 1317
 Delta R.T. -0.02 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	7271		
155	76.8	41.5	124.5	
157	87.5	53.2	159.6	





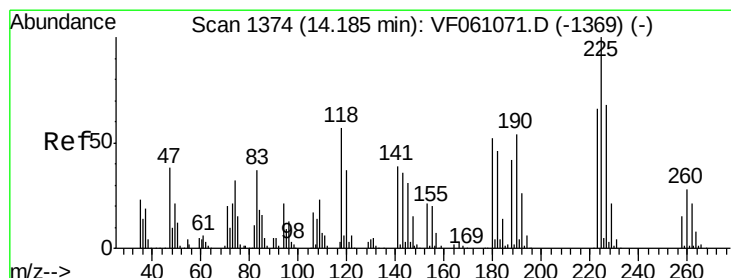
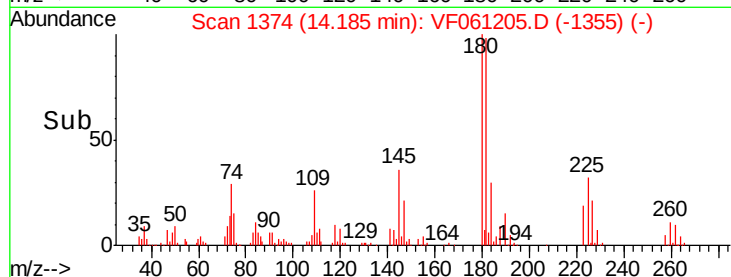
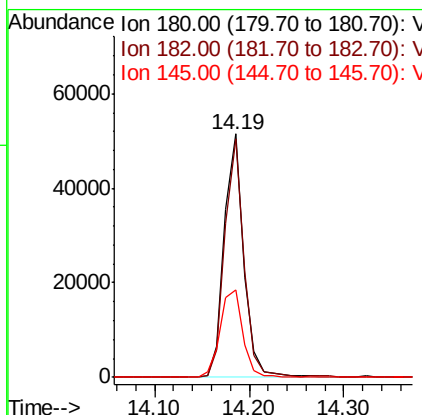
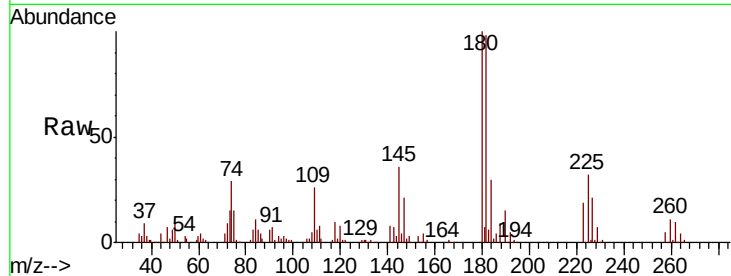
#93
 1,2,4-Trichlorobenzene
 Concen: 21.288 ug/l
 RT: 14.19 min Scan# 1374
 Delta R.T. -0.01 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1227SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.0	46.9	140.6
145	35.9	20.5	61.6

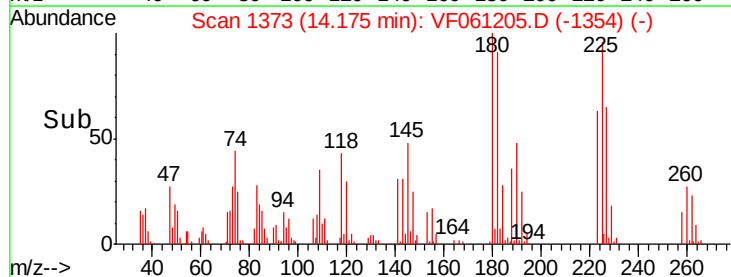
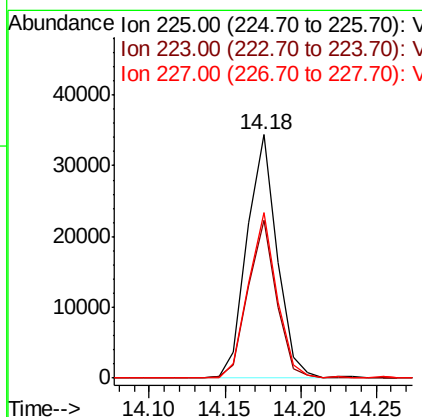
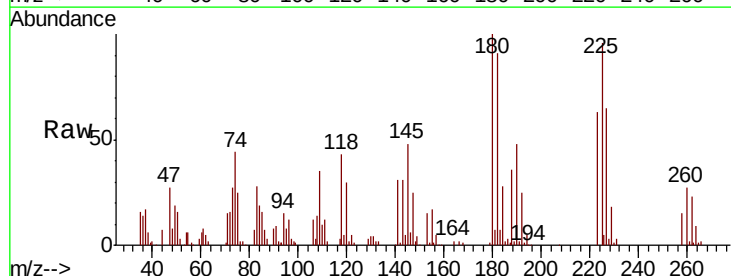
Manual Integrations
 APPROVED

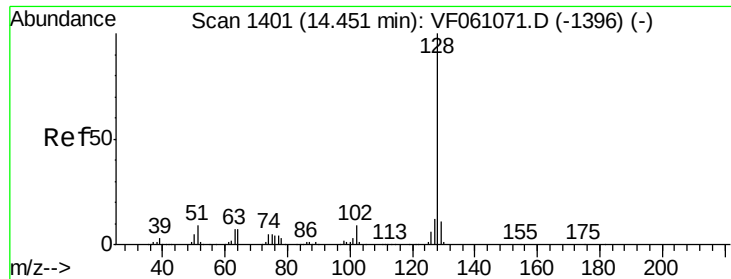
MMDadoda
 12/28/2018 9:38:23 AM



#94
 Hexachlorobutadiene
 Concen: 21.546 ug/l
 RT: 14.18 min Scan# 1373
 Delta R.T. -0.01 min
 Lab File: VF061205.D
 Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.0	32.8	98.3
227	67.8	34.0	101.8





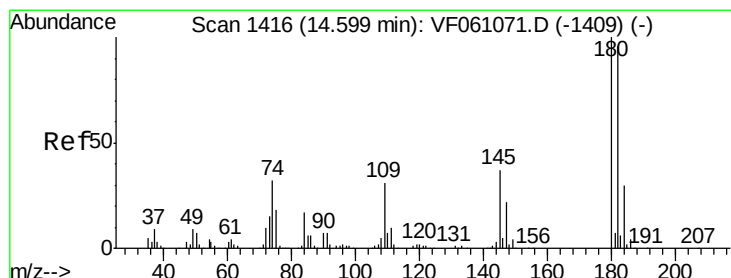
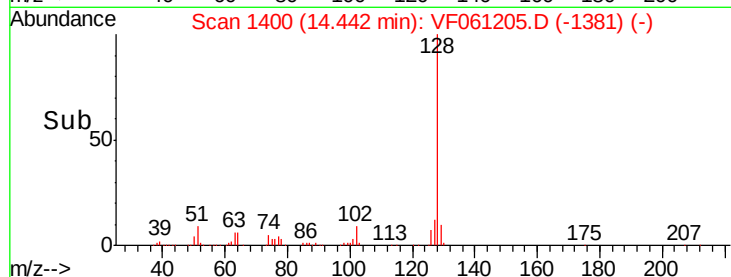
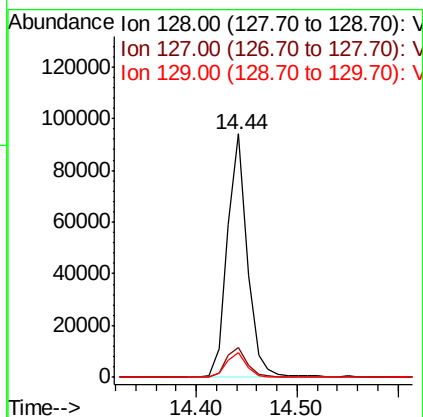
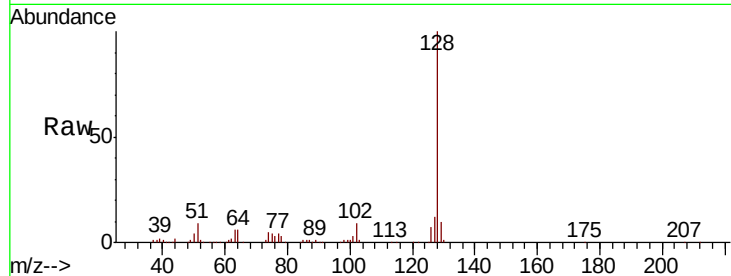
#95
Naphthalene
Concen: 20.600 ug/l
RT: 14.44 min Scan# 1400
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Instrument :
MSVOA_F
ClientSampleId :
VF1227SBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.4	9.4	14.2
129	10.4	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
12/28/2018 9:38:23 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.275 ug/l
RT: 14.59 min Scan# 1415
Delta R.T. -0.01 min
Lab File: VF061205.D
Acq: 27 Dec 2018 13:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.9	143.8
145	34.1	18.6	55.8

