

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF122118\
 Data File : VF061121.D
 Acq On : 21 Dec 2018 12:53
 Operator : VA/AP
 Sample : VF1221SBSD01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBSD01

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 10:51:14 AM

Quant Time: Dec 21 15:31:03 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	4.90	168	211481	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.63	114	361459	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.80	117	331215	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.58	152	166064	50.00	ug/l	0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	133831	49.20	ug/l	0.03
Spiked Amount 50.000			Recovery	=	98.40%	
35) Dibromofluoromethane	4.14	113	142052	49.06	ug/l	0.03
Spiked Amount 50.000			Recovery	=	98.12%	
50) Toluene-d8	7.59	98	419442	51.12	ug/l	0.03
Spiked Amount 50.000			Recovery	=	102.24%	
62) 4-Bromofluorobenzene	11.43	95	189150	50.00	ug/l	0.02
Spiked Amount 50.000			Recovery	=	100.00%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	82731	17.598	ug/l	100
3) Chloromethane	1.12	50	50716	18.834	ug/l	94
4) Vinyl Chloride	1.14	62	47527	19.026	ug/l	89
5) Bromomethane	1.37	94	32155	18.558	ug/l	91
6) Chloroethane	1.41	64	21187	18.407	ug/l	99
7) Trichlorofluoromethane	1.52	101	87142m	18.270	ug/l	
8) Diethyl Ether	1.65	74	14931	22.860	ug/l	89
9) 1,1,2-Trichlorotrifluoroet	1.86	101	47661	19.272	ug/l	94
10) Methyl Iodide	1.93	142	72825m	18.681	ug/l	
11) Tert butyl alcohol	2.61	59	11644	106.083	ug/l	94
12) 1,1-Dichloroethene	1.81	96	35823	19.216	ug/l	99
13) Acrolein	2.01	56	7487	94.396	ug/l	91
14) Allyl chloride	2.11	41	28592	14.738	ug/l	90
15) Acrylonitrile	2.97	53	25729	101.369	ug/l	87
16) Acetone	2.27	43	51228	94.211	ug/l	94
17) Carbon Disulfide	1.85	76	109070m	19.360	ug/l	
18) Methyl Acetate	2.37	43	23568	20.949	ug/l	99
19) Methyl tert-butyl Ether	2.46	73	80941	19.561	ug/l	100
20) Methylene Chloride	2.29	84	40846m	20.892	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	35136m	17.622	ug/l	
22) Diisopropyl ether	2.83	45	134572	20.825	ug/l	92
23) Vinyl Acetate	3.22	43	363299	121.865	ug/l	99
24) 1,1-Dichloroethane	2.89	63	67863	17.724	ug/l	98
25) 2-Butanone	4.38	43	102981	116.775	ug/l	94
26) 2,2-Dichloropropane	3.63	77	41238	18.768	ug/l	87
27) cis-1,2-Dichloroethene	3.50	96	63232	20.715	ug/l	93
28) Bromochloromethane	3.75	49	43734	22.512	ug/l	91
29) Tetrahydrofuran	4.11	42	45471	126.684	ug/l	93
30) Chloroform	3.90	83	110762	19.293	ug/l	92
31) Cyclohexane	3.72	56	87947m	22.136	ug/l	
32) 1,1,1-Trichloroethane	4.12	97	78866m	22.919	ug/l	
36) 1,1-Dichloropropene	4.31	75	84800	19.436	ug/l	96
37) Ethyl Acetate	4.14	43	42936	23.062	ug/l	87
38) Carbon Tetrachloride	4.02	117	61826	18.607	ug/l	98

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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	5.49	83	75180	19.207	ug/l	95
40) Benzene	4.67	78	204100	21.753	ug/l	96
41) Methacrylonitrile	4.78	41	21773	23.629	ug/l	92
42) 1,2-Dichloroethane	4.97	62	68188	19.131	ug/l	98
43) Isopropyl Acetate	6.99	43	52593	24.965	ug/l #	96
44) Trichloroethene	5.53	130	62861	21.250	ug/l	95
45) 1,2-Dichloropropane	6.26	63	53495	20.956	ug/l	98
46) Dibromomethane	6.12	93	35642	21.527	ug/l	90
47) Bromodichloromethane	6.42	83	88433	20.557	ug/l	99
48) Methyl methacrylate	6.76	41	33252	22.610	ug/l #	85
49) 1,4-Dioxane	6.75	88	4048	379.332	ug/l #	78
51) 4-Methyl-2-Pentanone	8.30	43	172973	119.719	ug/l	100
52) Toluene	7.65	92	134916	21.722	ug/l	97
53) t-1,3-Dichloropropene	8.32	75	74204	21.382	ug/l	100
54) cis-1,3-Dichloropropene	7.34	75	96970	22.263	ug/l	96
55) 1,1,2-Trichloroethane	8.52	97	41040	22.042	ug/l	92
56) Ethyl methacrylate	8.65	69	47471	23.562	ug/l	97
57) 1,3-Dichloropropane	8.89	76	75226	22.338	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.33	63	58926	152.283	ug/l	100
59) 2-Hexanone	9.53	43	135709	129.882	ug/l	98
60) Dibromochloromethane	8.75	129	56469	21.157	ug/l	93
61) 1,2-Dibromoethane	9.03	107	43197	21.723	ug/l	98
64) Tetrachloroethene	8.19	164	52719	20.691	ug/l	97
65) Chlorobenzene	9.83	112	139244	20.350	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.96	131	56278	20.126	ug/l	97
67) Ethyl Benzene	9.93	91	265101	21.266	ug/l	100
68) m/p-Xylenes	10.17	106	192396	43.856	ug/l	97
69) o-Xylene	10.74	106	105962	21.778	ug/l	96
70) Styrene	10.82	104	145012	21.694	ug/l	99
71) Bromoform	10.80	173	29156	22.538	ug/l	99
73) Isopropylbenzene	11.15	105	307060	21.457	ug/l	93
74) N-amyl acetate	11.39	43	84599	26.627	ug/l	93
75) 1,1,2,2-Tetrachloroethane	11.72	83	55974	23.567	ug/l	98
76) 1,2,3-Trichloropropane	11.82	75	38993	22.061	ug/l	86
77) Bromobenzene	11.52	156	66075	21.449	ug/l	89
78) n-propylbenzene	11.62	91	356657	19.125	ug/l	98
79) 2-Chlorotoluene	11.75	91	205857	20.969	ug/l	99
80) 1,3,5-Trimethylbenzene	11.85	105	249022	21.133	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.90	75	20215m	26.615	ug/l	
82) 4-Chlorotoluene	11.93	91	205992	20.284	ug/l	99
83) tert-Butylbenzene	12.15	119	257661	21.249	ug/l	97
84) 1,2,4-Trimethylbenzene	12.23	105	244909	20.842	ug/l	98
85) sec-Butylbenzene	12.33	105	325534	20.572	ug/l	99
86) p-Isopropyltoluene	12.49	119	284188	21.636	ug/l	96
87) 1,3-Dichlorobenzene	12.50	146	127334	22.354	ug/l	98
88) 1,4-Dichlorobenzene	12.59	146	116237	20.548	ug/l	96
89) n-Butylbenzene	12.86	91	294039	19.500	ug/l	93
90) Hexachloroethane	12.94	117	66203	20.401	ug/l	95
91) 1,2-Dichlorobenzene	12.97	146	117483	21.332	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.66	75	9817	22.524	ug/l	86

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QLast Update : Thu Dec 20 00:56:59 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	86246	22.082	ug/l	96
94) Hexachlorobutadiene	14.21	225	51341	20.639	ug/l	94
95) Naphthalene	14.48	128	158196	22.181	ug/l	99
96) 1,2,3-Trichlorobenzene	14.63	180	76843	21.282	ug/l	98

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

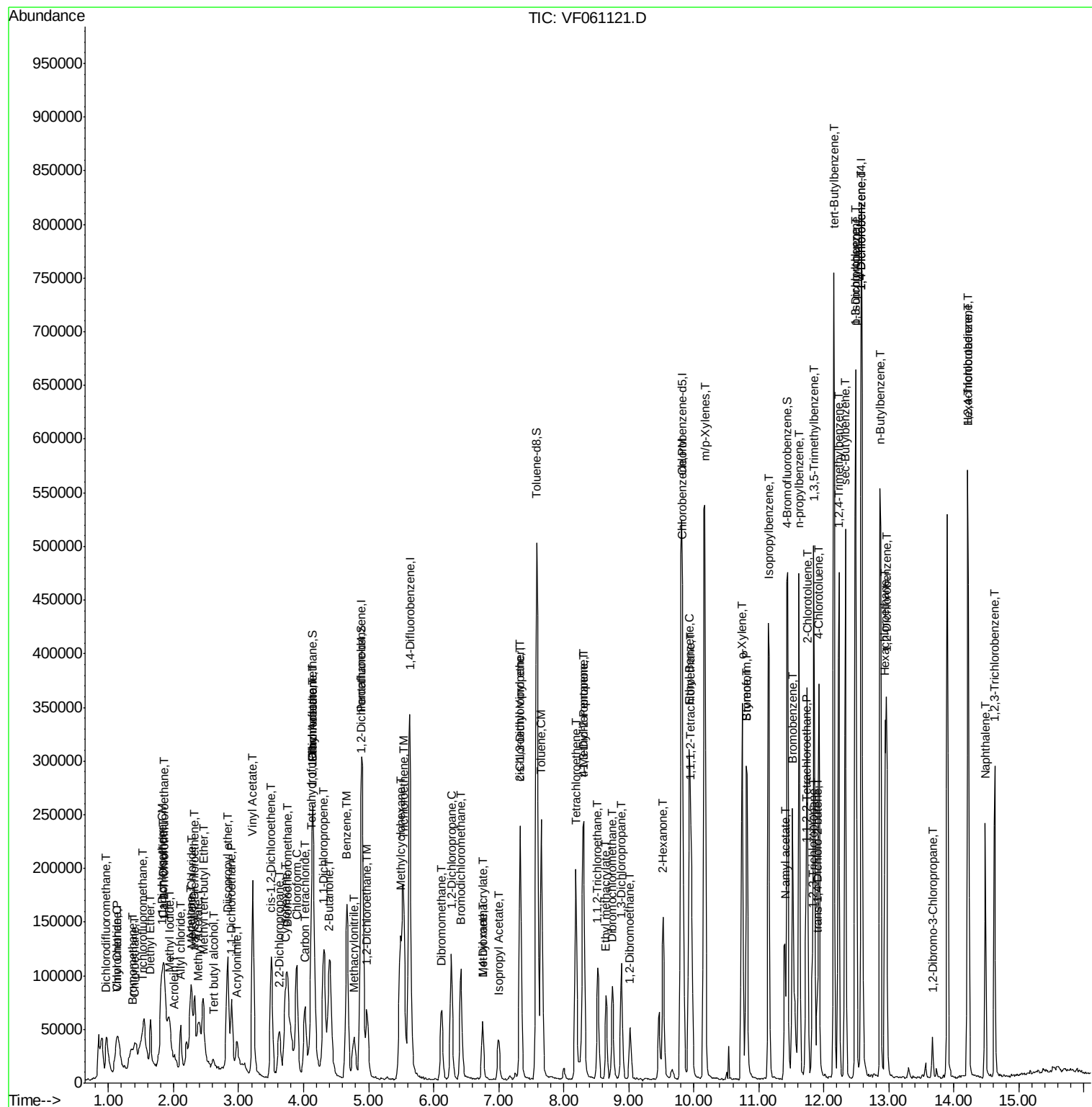
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Data File : VF061121.D
Acq On : 21 Dec 2018 12:53
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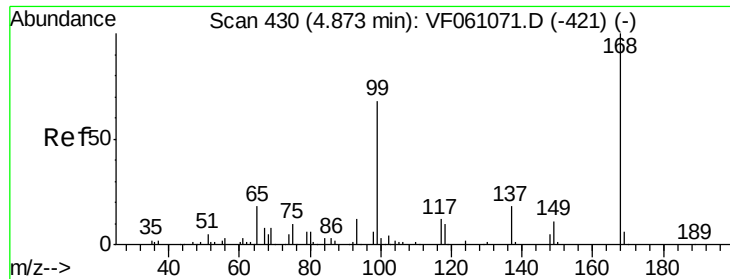
Instrument :
MSVOA_F
Client Sample Id :
VF1221SBSD01

Manual Integrations
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 168 Resp: 211481

Ion Ratio Lower Upper

168 100

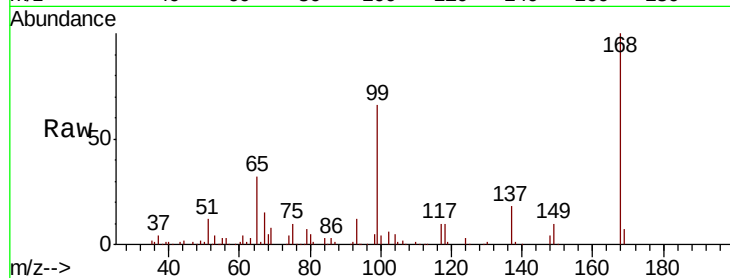
99 66.0 54.4 81.6

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

80000

60000

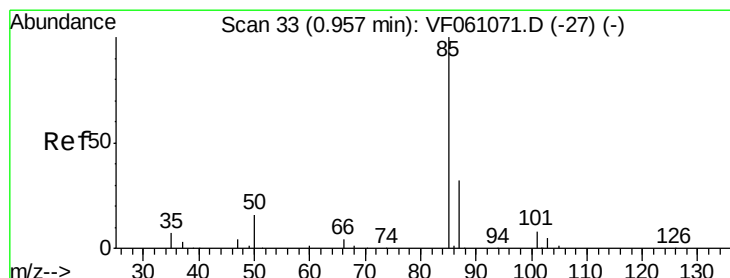
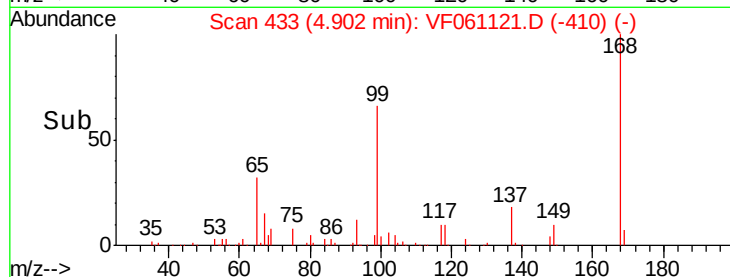
40000

20000

0

4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 17.598 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061121.D

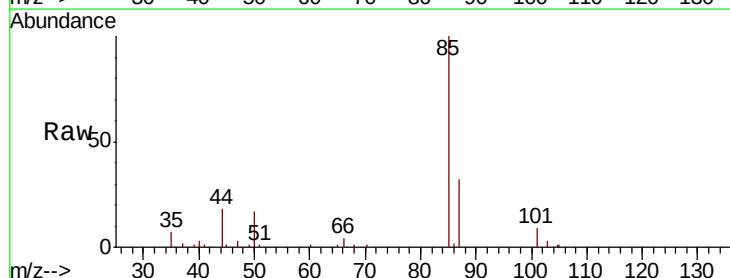
Acq: 21 Dec 2018 12:53

Tgt Ion: 85 Resp: 82731

Ion Ratio Lower Upper

85 100

87 31.8 15.9 47.6



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

20000

15000

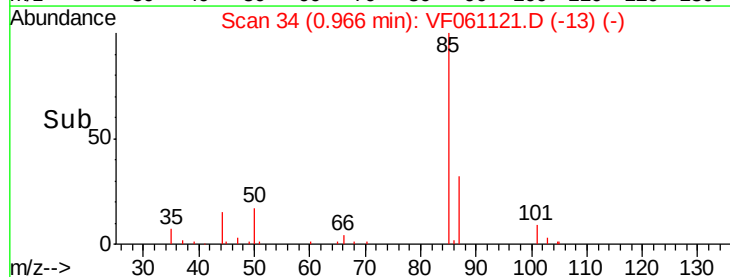
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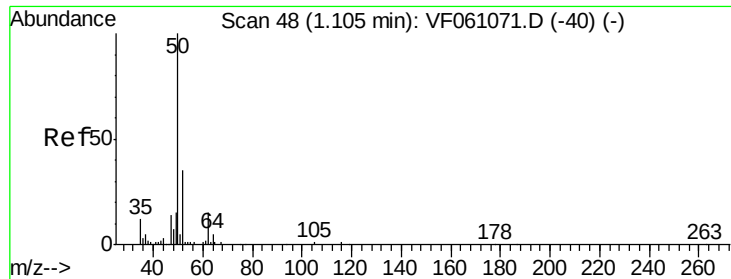
5000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 18.834 ug/l

RT: 1.12 min Scan# 50

Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBSD01

Tgt Ion: 50 Resp: 50716

Ion Ratio Lower Upper

50 100

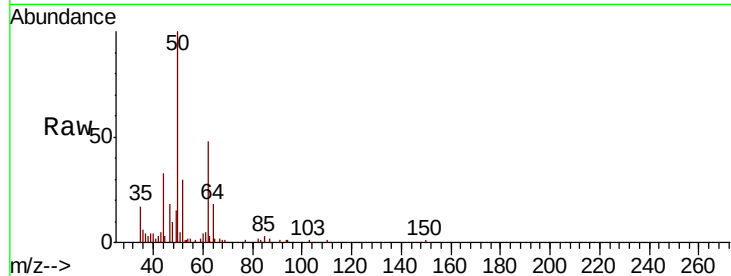
52 29.7 26.3 39.5

Manual Integrations

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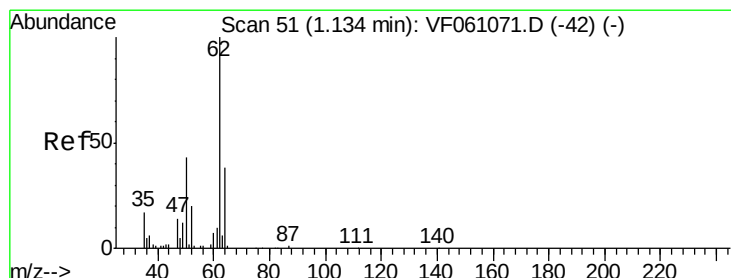
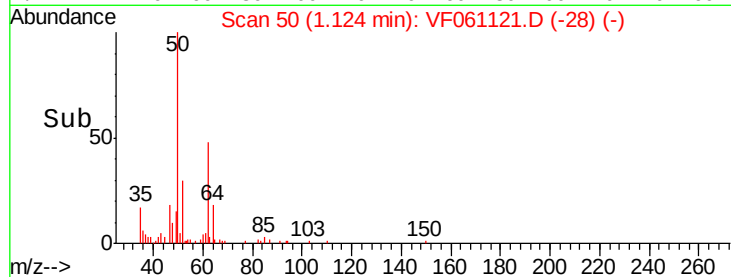
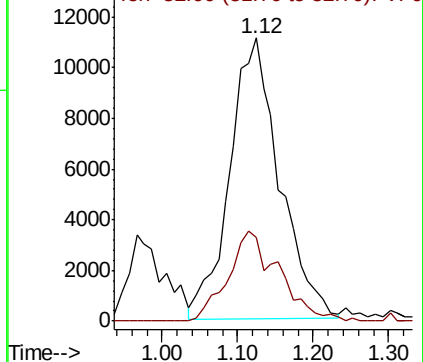
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 19.026 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061121.D

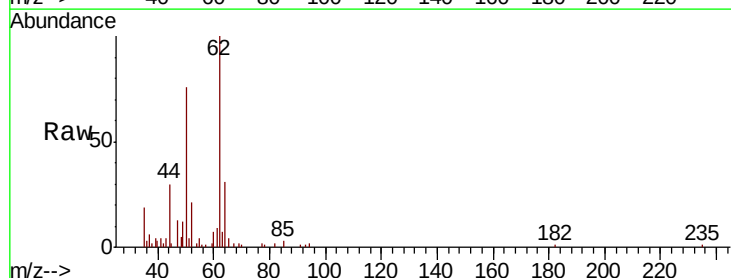
Acq: 21 Dec 2018 12:53

Tgt Ion: 62 Resp: 47527

Ion Ratio Lower Upper

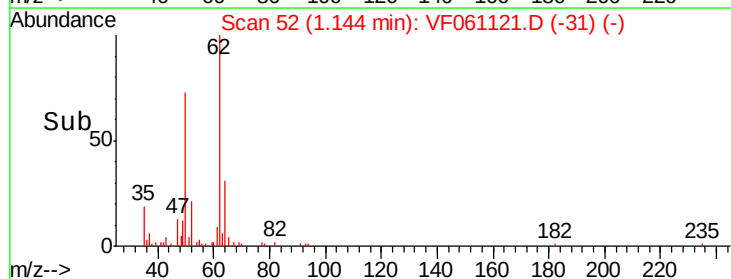
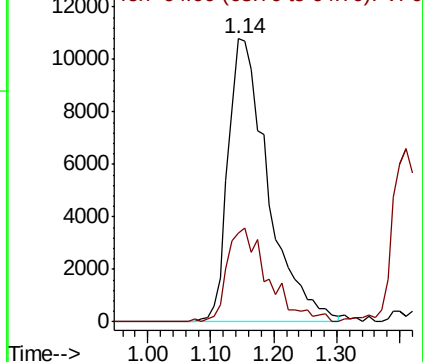
62 100

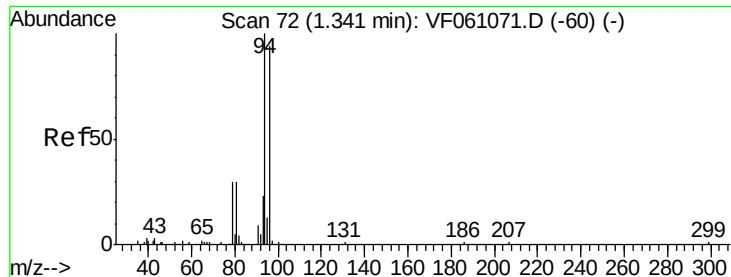
64 31.4 30.4 45.6



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 18.558 ug/l

RT: 1.37 min Scan# 75

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 94 Resp: 32155

Ion Ratio Lower Upper

94 100

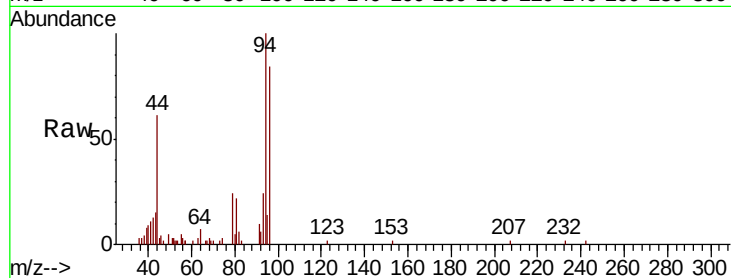
96 84.0 74.4 111.6

Manual Integrations

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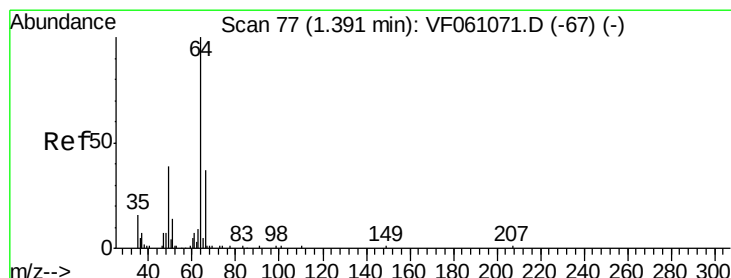
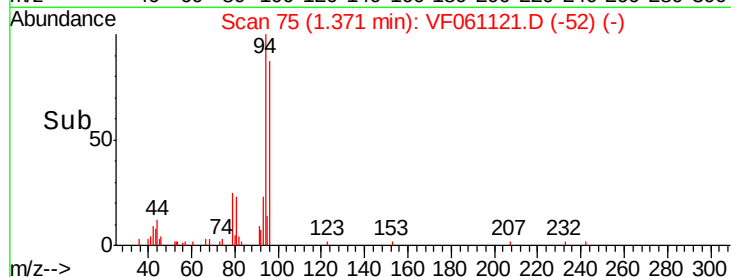
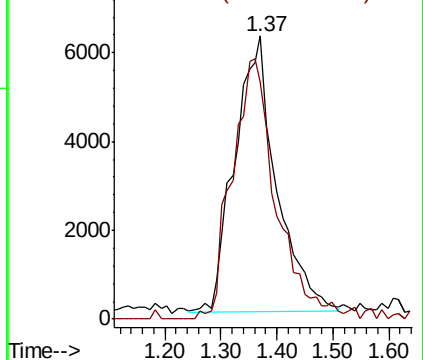
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 18.407 ug/l

RT: 1.41 min Scan# 79

Delta R.T. 0.02 min

Lab File: VF061121.D

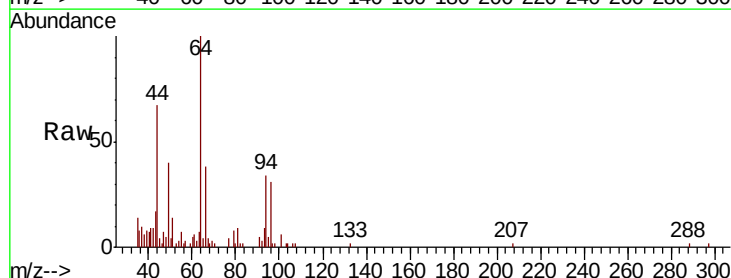
Acq: 21 Dec 2018 12:53

Tgt Ion: 64 Resp: 21187

Ion Ratio Lower Upper

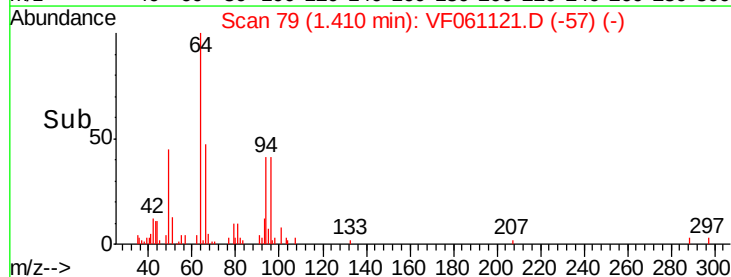
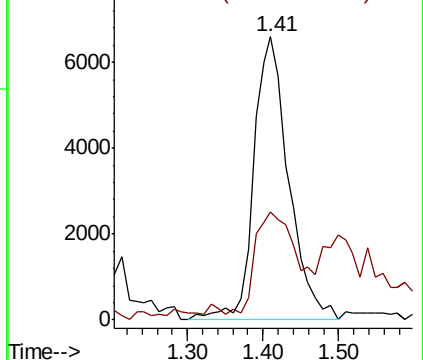
64 100

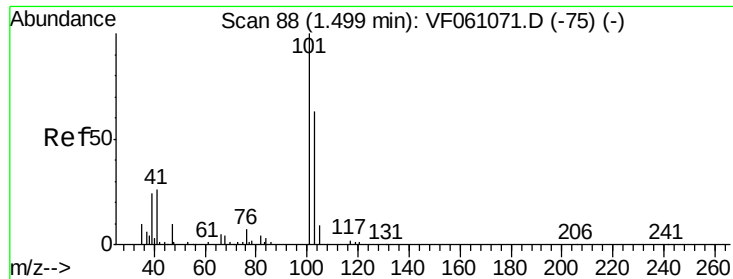
66 38.1 30.9 46.3



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

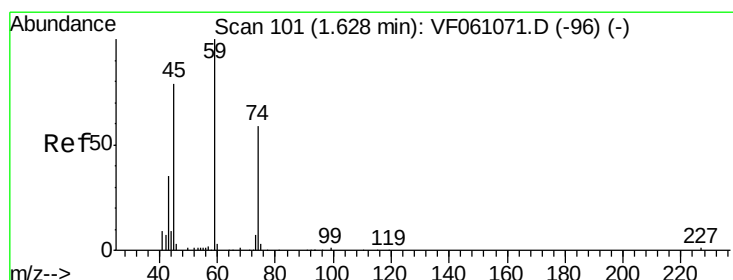
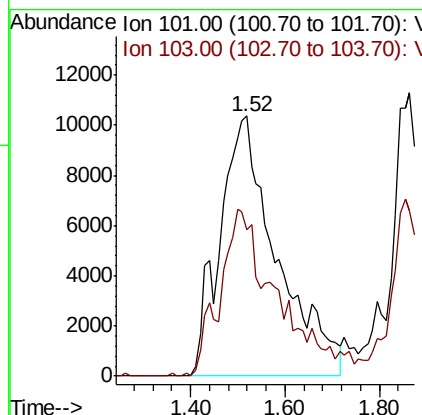
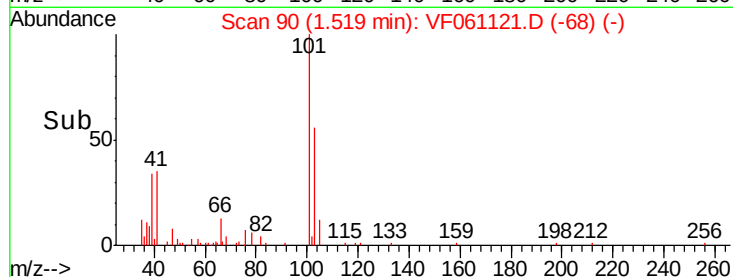
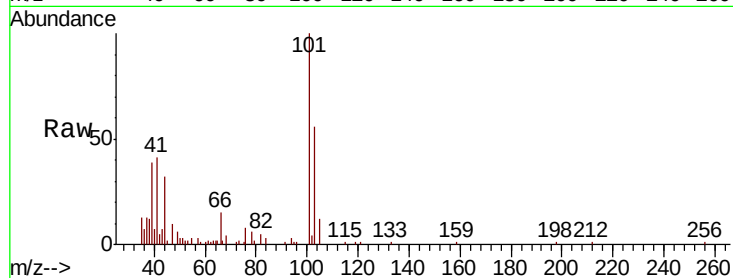
Trichlorofluoromethane
Concen: 18.270 ug/l m
RT: 1.52 min Scan# 90
Delta R.T. 0.02 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion: 101 Resp: 87142
Ion Ratio Lower Upper
101 100
103 56.1 50.7 76.1

Manual Integrations
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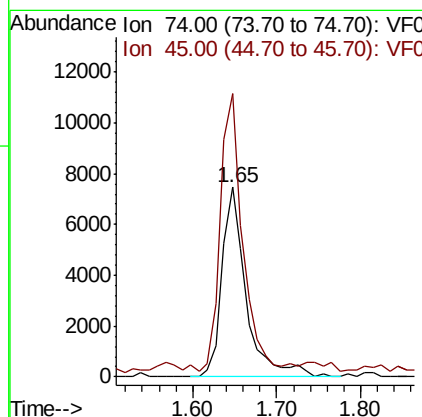
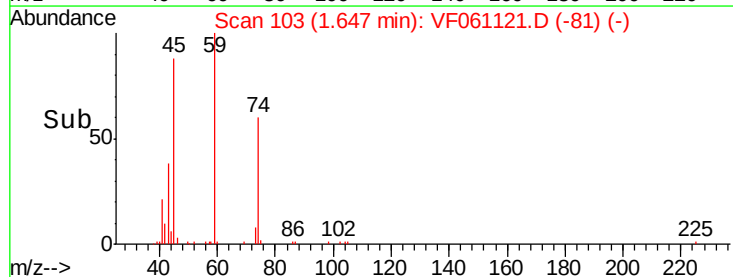
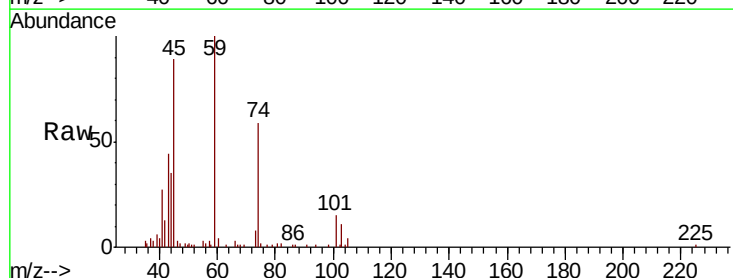
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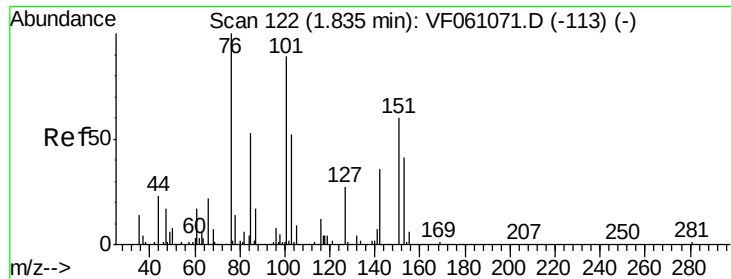


#8

Diethyl Ether
Concen: 22.860 ug/l
RT: 1.65 min Scan# 103
Delta R.T. 0.02 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion: 74 Resp: 14931
Ion Ratio Lower Upper
74 100
45 149.3 67.8 203.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.272 ug/l

RT: 1.86 min Scan# 125

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

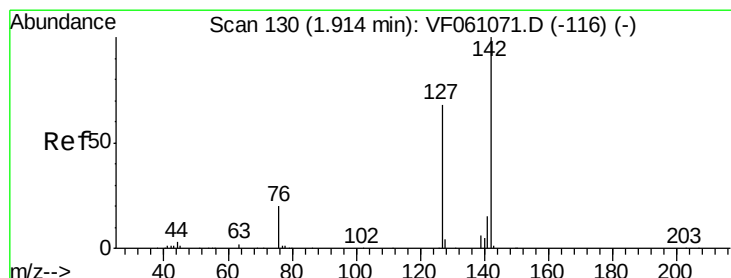
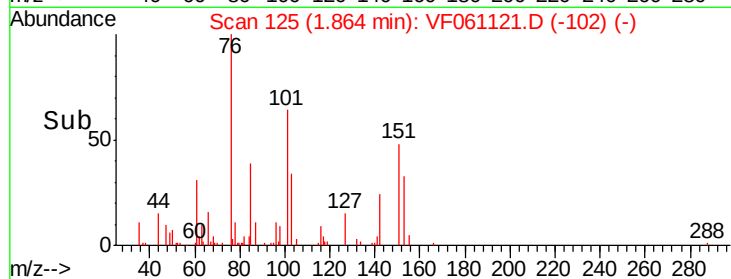
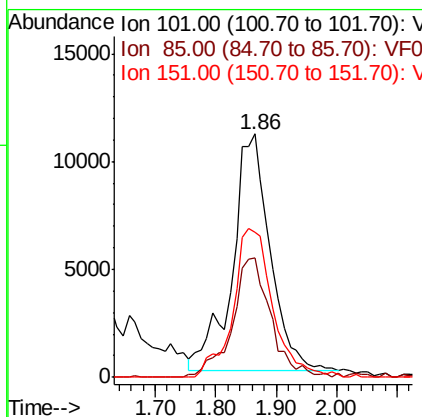
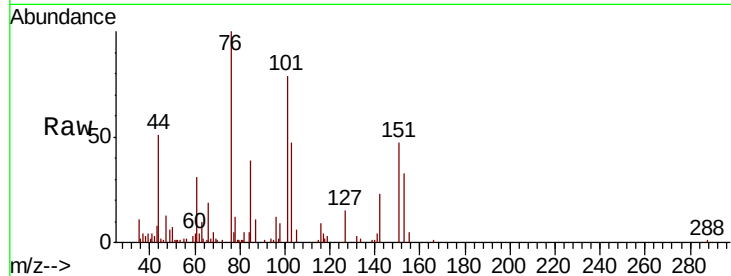
ClientSampleId :

VF1221SBS01

Tgt Ion:	101	Resp:	47661
Ion Ratio	Lower	Upper	
101	100		
85	48.8	44.5	66.7
151	59.6	49.9	74.9

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#10

Methyl Iodide

Concen: 18.681 ug/l m

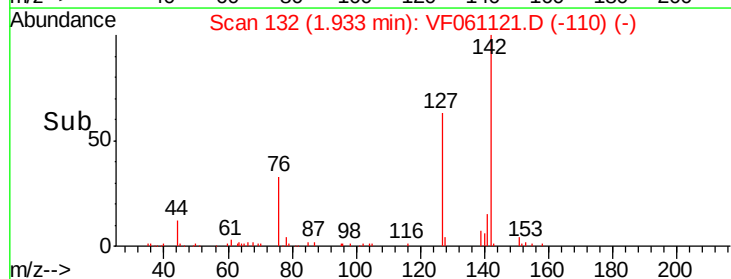
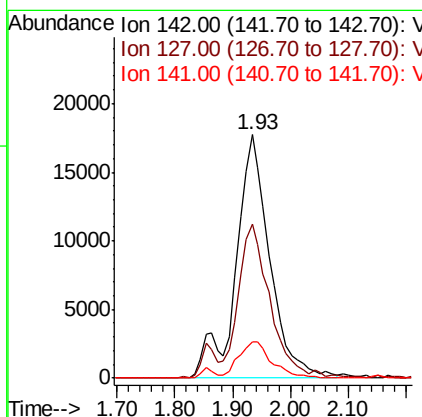
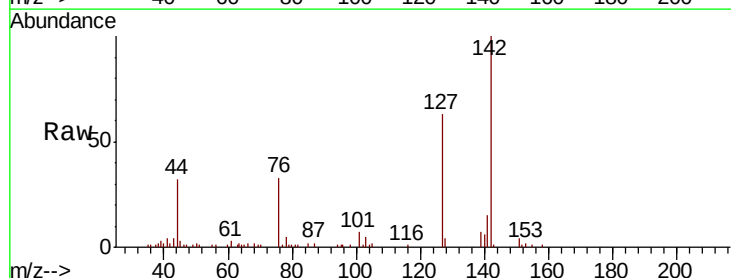
RT: 1.93 min Scan# 132

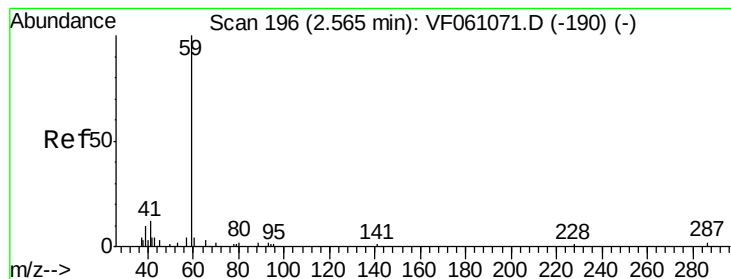
Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Tgt Ion:	142	Resp:	72825
Ion Ratio	Lower	Upper	
142	100		
127	63.5	54.7	82.1
141	14.8	12.2	18.2





#11

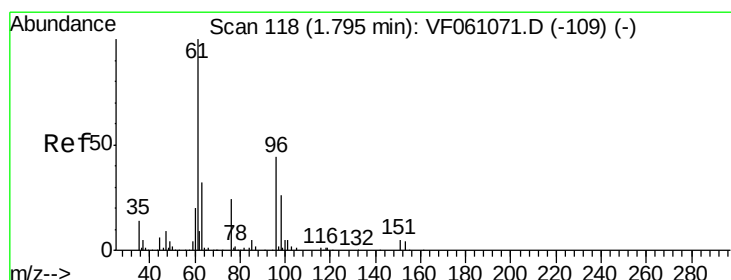
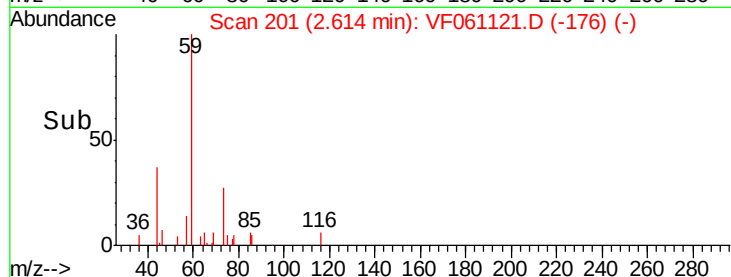
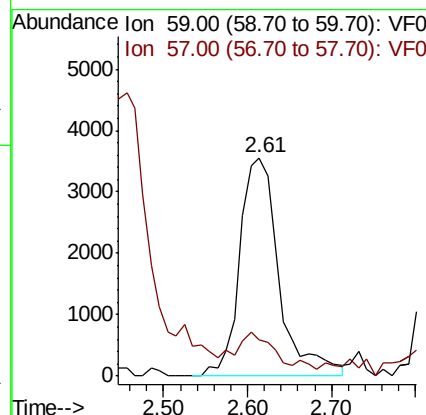
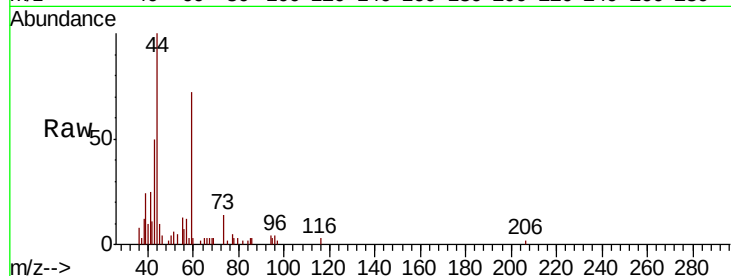
Tert butyl alcohol
Concen: 106.083 ug/l
RT: 2.61 min Scan# 201
Delta R.T. 0.05 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion	Ratio	Lower	Upper
59	100		
57	16.8	11.5	17.3

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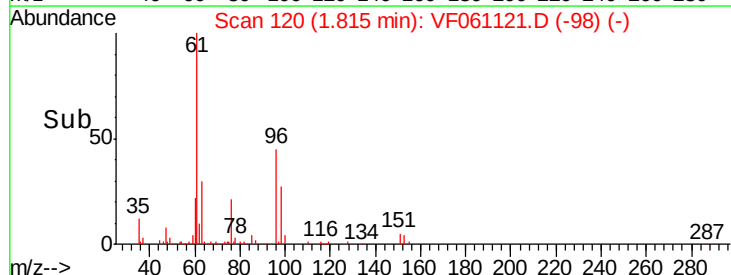
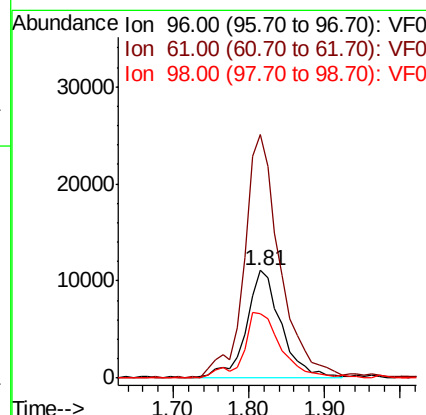
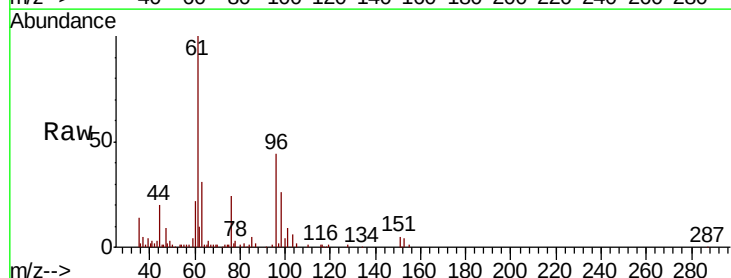
MMDadoda
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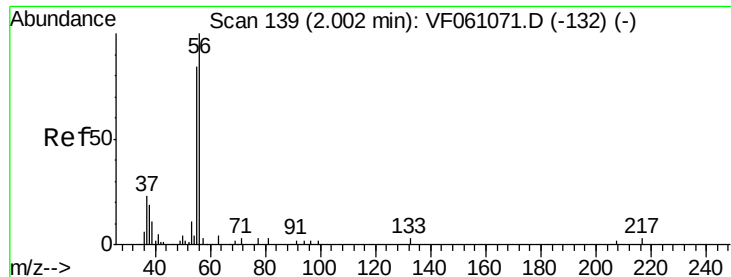


#12

1,1-Dichloroethene
Concen: 19.216 ug/l
RT: 1.81 min Scan# 120
Delta R.T. 0.02 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	225.8	182.0	273.0
98	59.7	46.5	69.7





#13

Acrolein

Concen: 94.396 ug/l

RT: 2.01 min Scan# 140

Delta R.T. 0.01 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 56 Resp: 7487

Ion Ratio Lower Upper

56 100

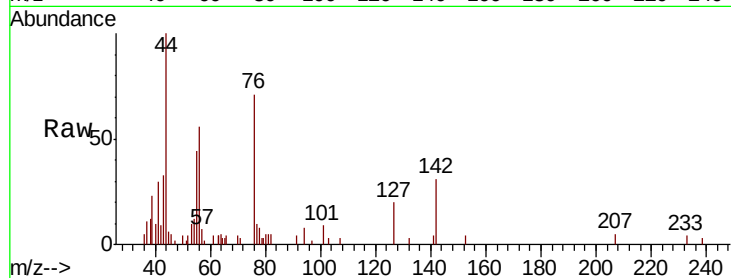
55 79.5 70.2 105.2

Manual Integrations

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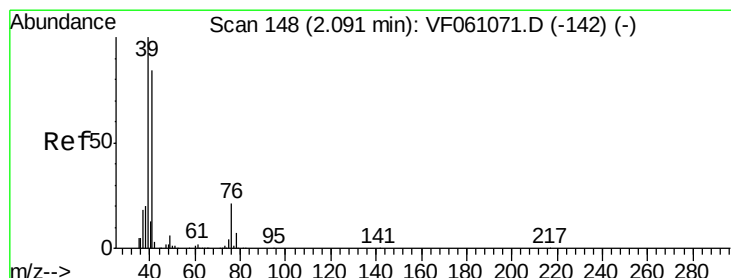
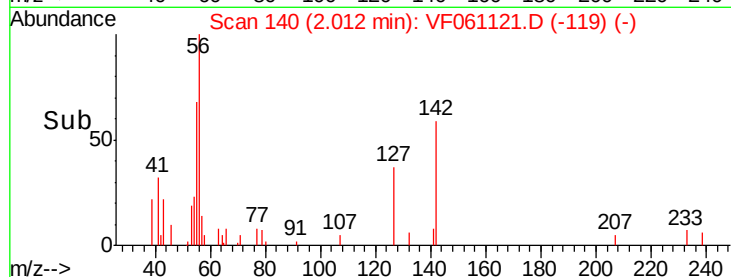
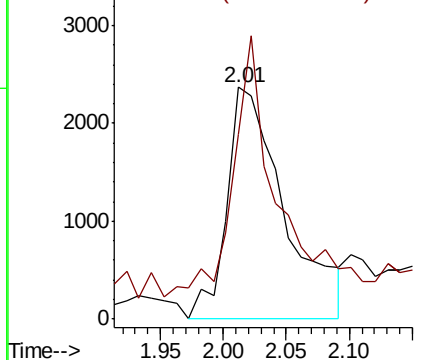
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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 14.738 ug/l

RT: 2.11 min Scan# 150

Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

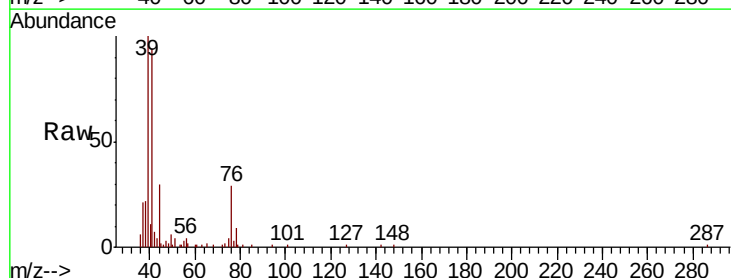
Tgt Ion: 41 Resp: 28592

Ion Ratio Lower Upper

41 100

39 106.3 96.4 144.6

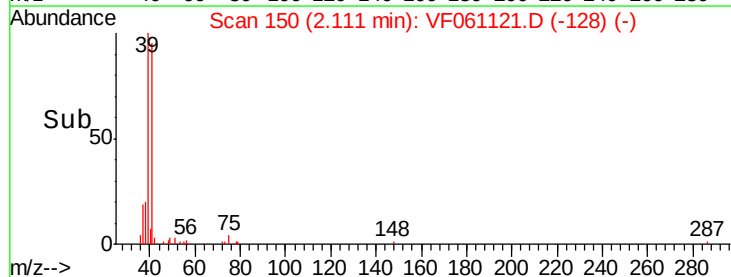
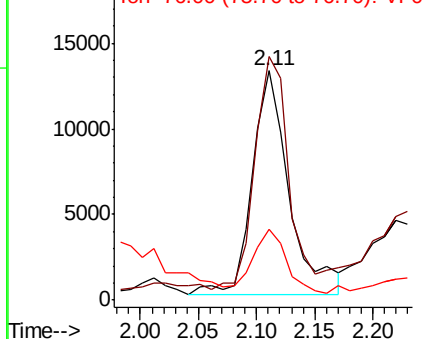
76 31.0 25.4 38.0

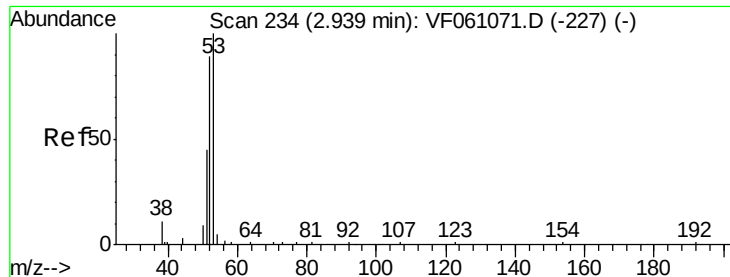


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 101.369 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

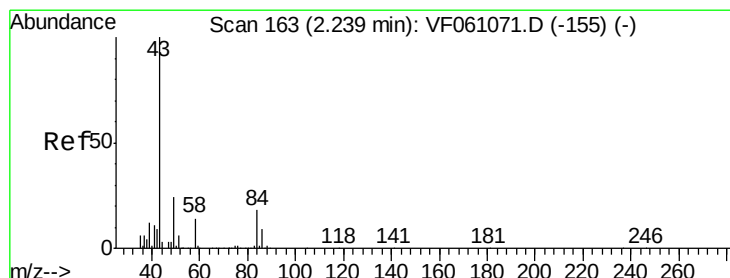
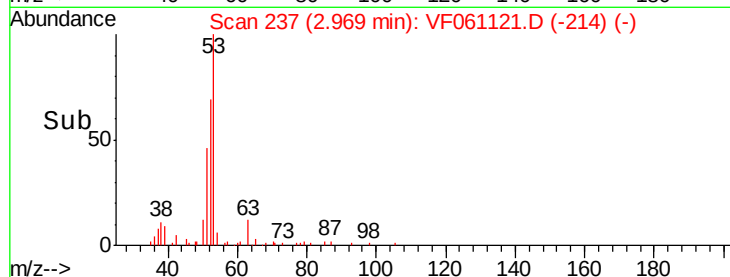
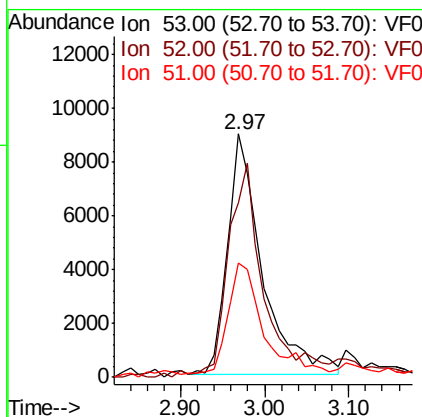
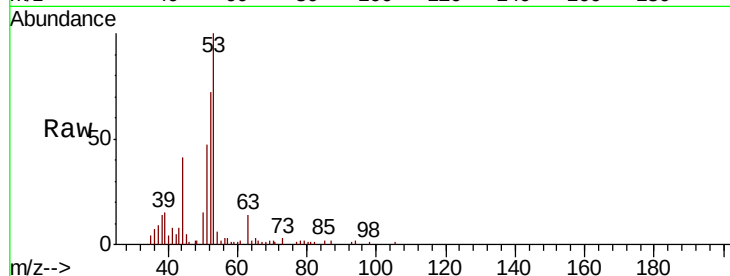
ClientSampleId :

VF1221SBS01

Tgt Ion:	53	Resp:	25729
Ion	Ratio	Lower	Upper
53	100		
52	71.9	71.3	106.9
51	46.9	36.8	55.2

Manual Integrations
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#16

Acetone

Concen: 94.211 ug/l

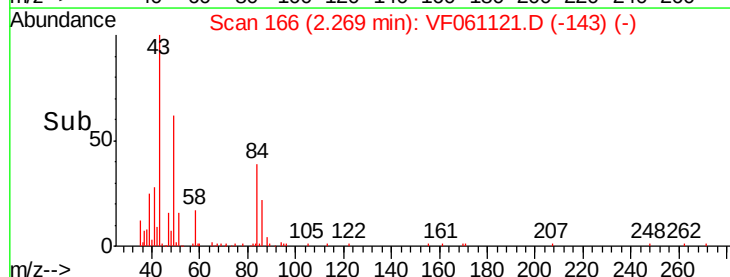
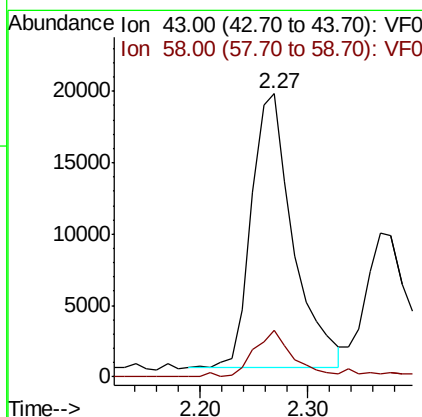
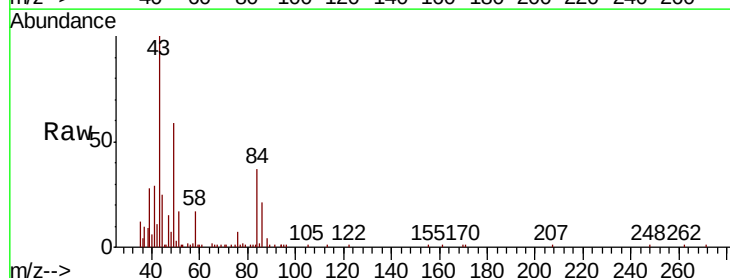
RT: 2.27 min Scan# 166

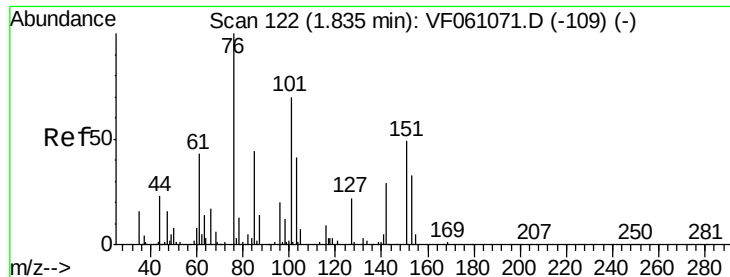
Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Tgt Ion:	43	Resp:	51228
Ion	Ratio	Lower	Upper
43	100		
58	16.5	11.1	16.7





#17

Carbon Disulfide

Concen: 19.360 ug/l m

RT: 1.85 min Scan# 124

Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 76 Resp: 109070

Ion Ratio Lower Upper

76 100

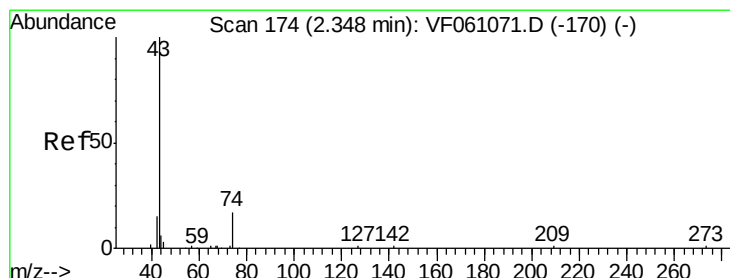
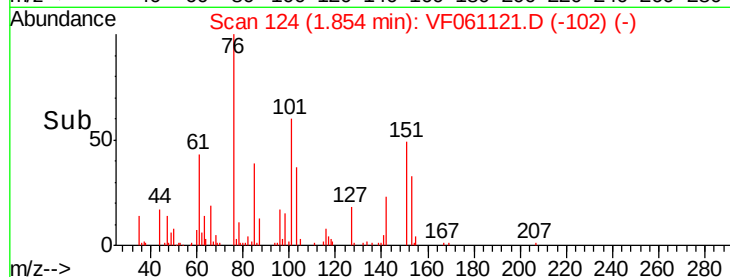
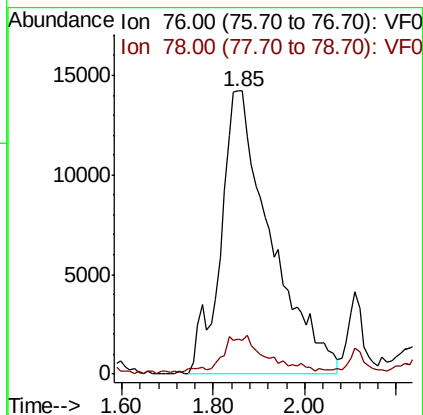
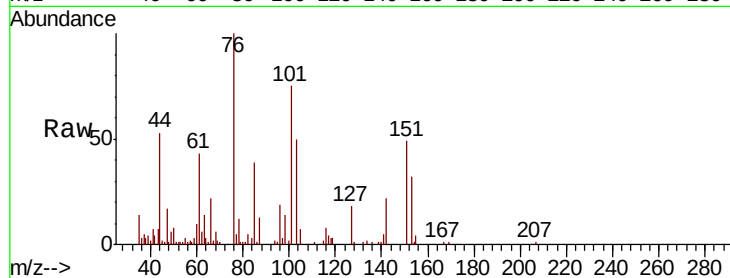
78 12.3 10.2 15.4

Manual Integrations

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#18

Methyl Acetate

Concen: 20.949 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.02 min

Lab File: VF061121.D

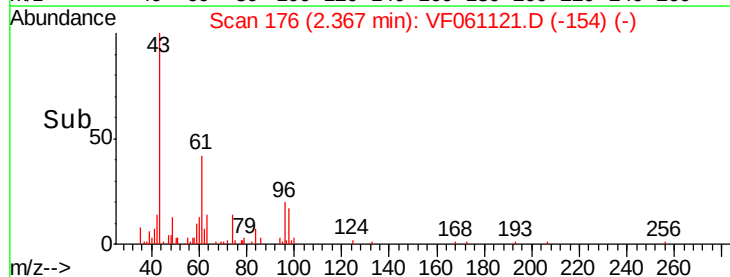
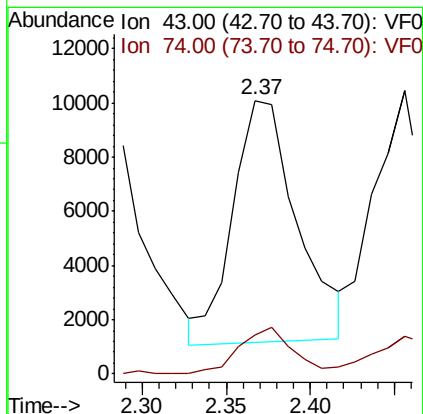
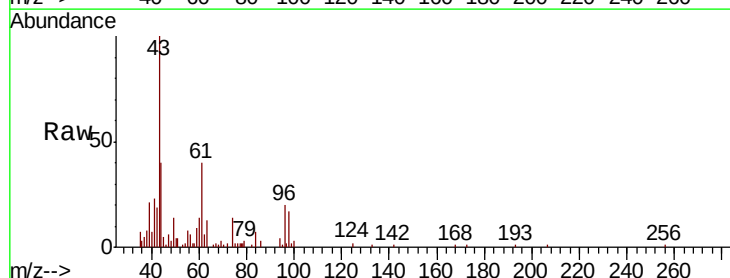
Acq: 21 Dec 2018 12:53

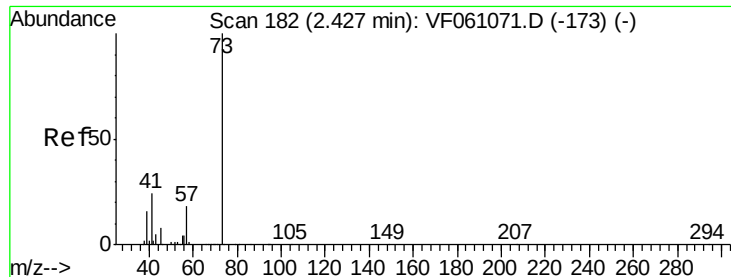
Tgt Ion: 43 Resp: 23568

Ion Ratio Lower Upper

43 100

74 14.1 11.0 16.6





#19

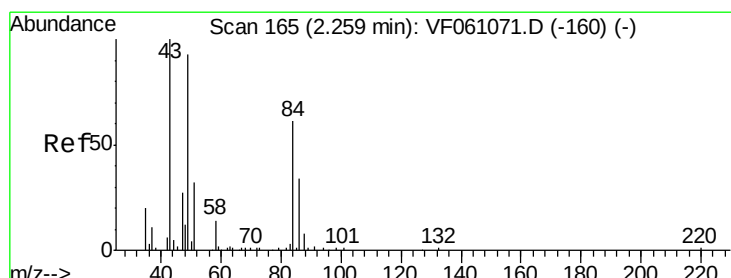
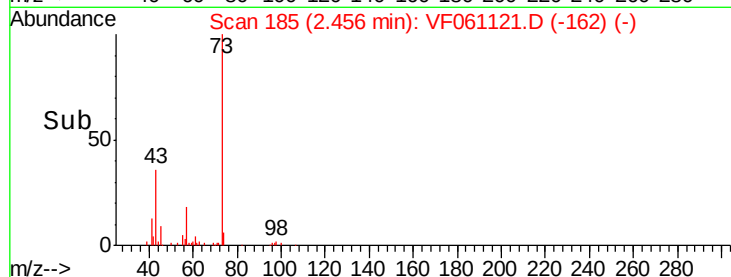
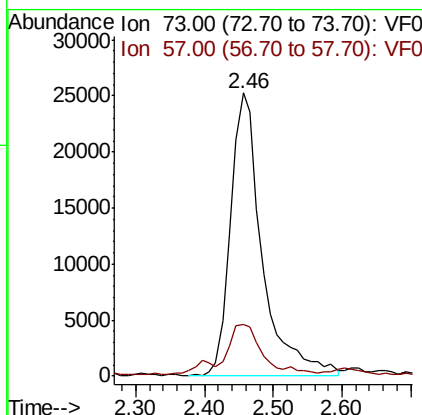
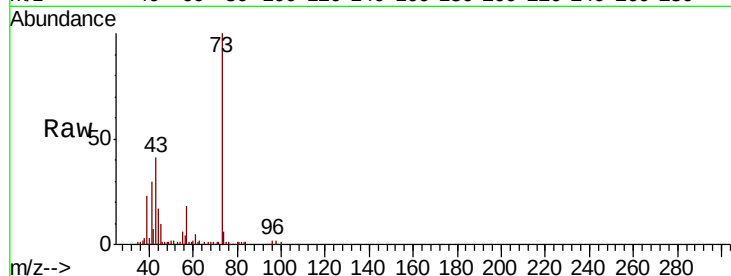
Methyl tert-butyl Ether
 Concen: 19.561 ug/l
 RT: 2.46 min Scan# 185
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Tgt Ion	Ratio	Lower	Upper
73	100		
57	18.3	14.5	21.7

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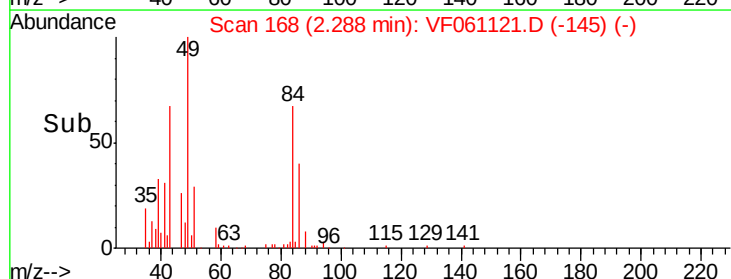
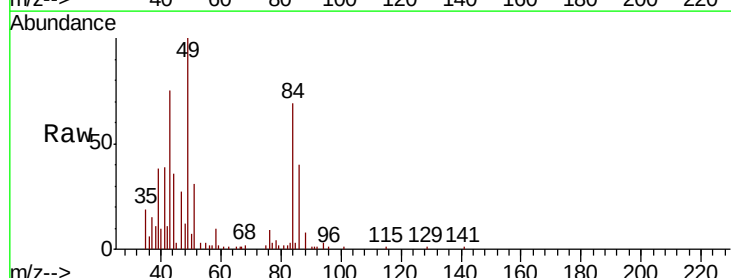
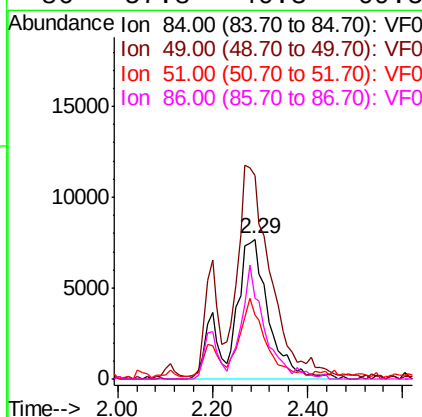
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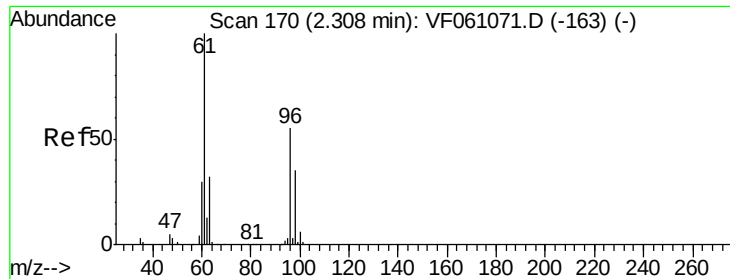


#20

Methylene Chloride
 Concen: 20.892 ug/l m
 RT: 2.29 min Scan# 168
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.3	129.4	194.2
51	45.4	44.0	66.0
86	57.8	46.3	69.5





#21

trans-1,2-Dichloroethene

Concen: 17.622 ug/l m

RT: 2.33 min Scan# 172

Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

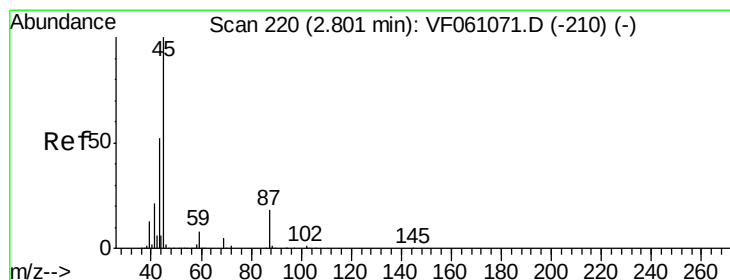
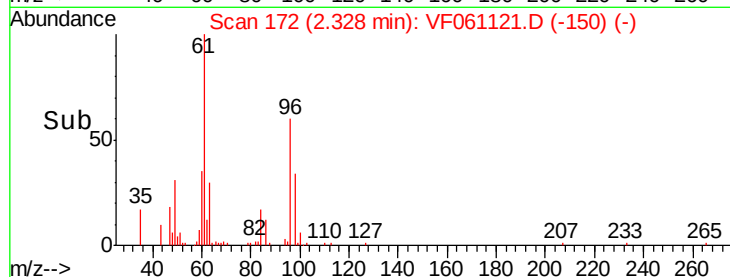
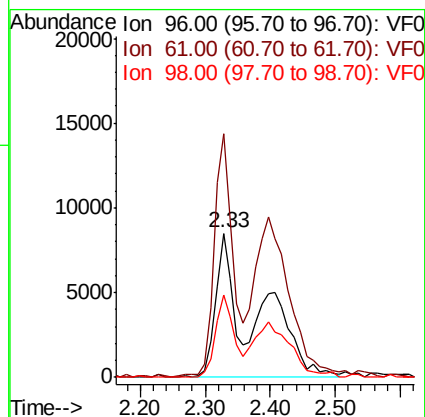
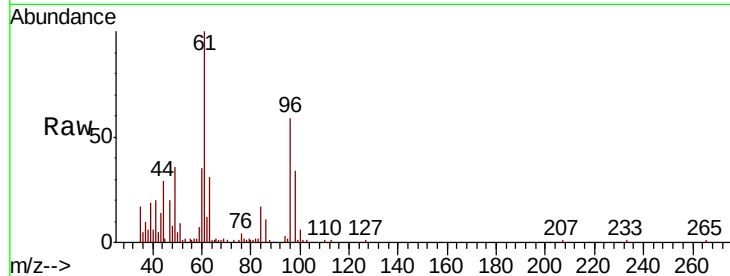
ClientSampleId :

VF1221SBS01

Tgt Ion:	96	Resp:	35136
Ion	Ratio	Lower	Upper
96	100		
61	168.6	146.0	219.0
98	56.6	51.6	77.4

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#22

Diisopropyl ether

Concen: 20.825 ug/l

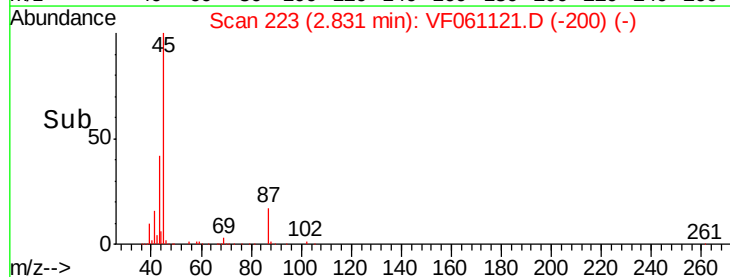
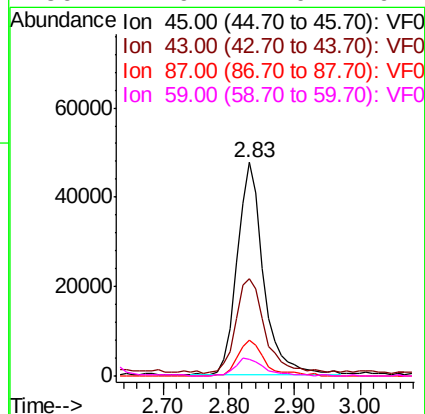
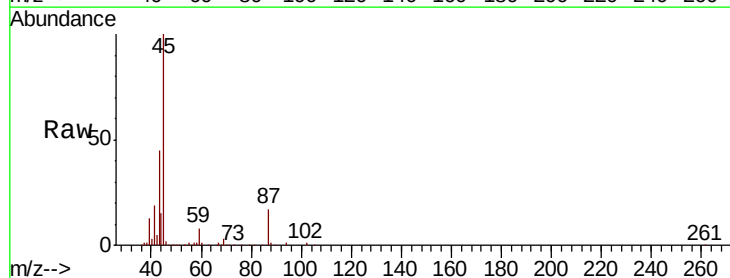
RT: 2.83 min Scan# 223

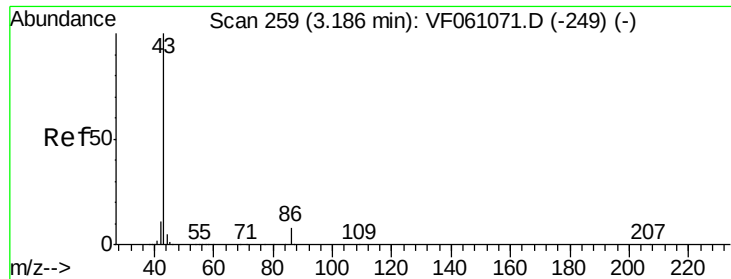
Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Tgt Ion:	45	Resp:	134572
Ion	Ratio	Lower	Upper
45	100		
43	45.3	42.2	63.2
87	16.7	14.6	22.0
59	7.9	7.0	10.4





#23

Vinyl Acetate

Concen: 121.865 ug/l

RT: 3.22 min Scan# 262

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 43 Resp: 363299

Ion Ratio Lower Upper

43 100

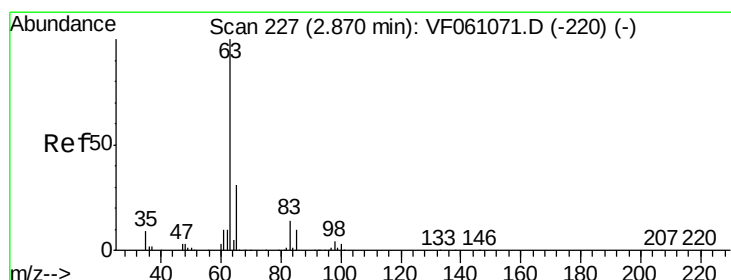
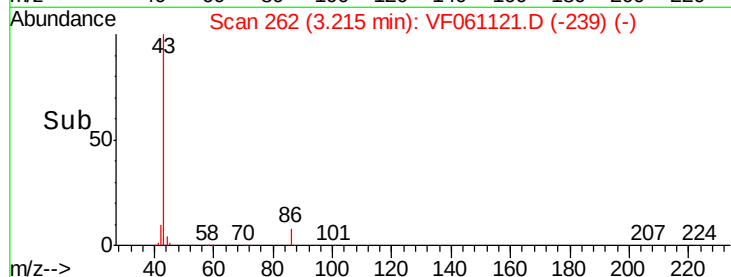
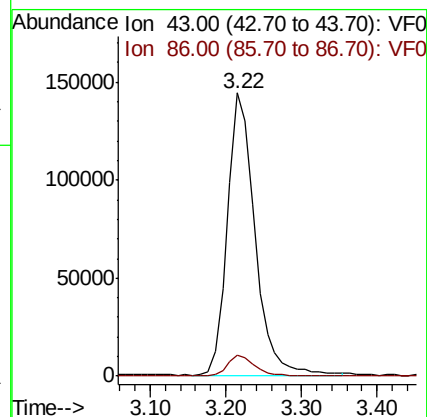
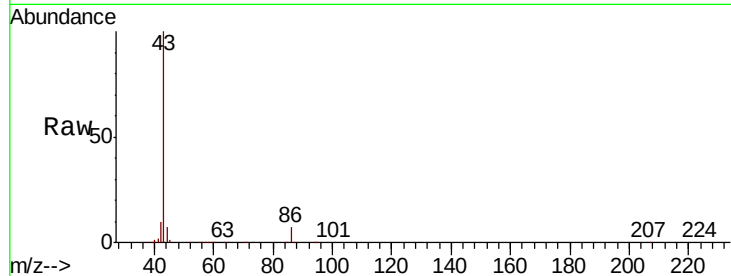
86 7.5 6.3 9.5

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 17.724 ug/l

RT: 2.89 min Scan# 229

Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

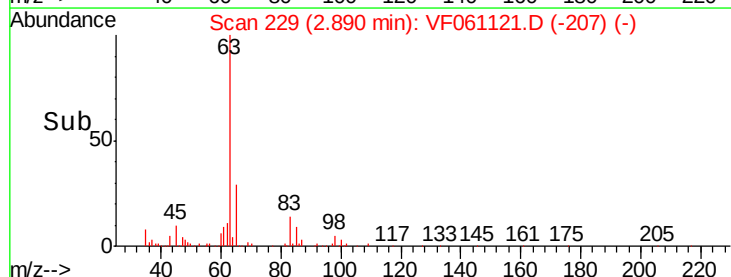
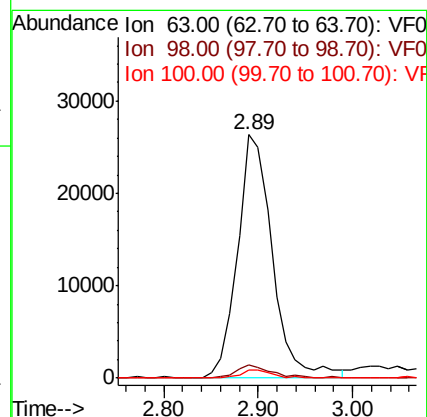
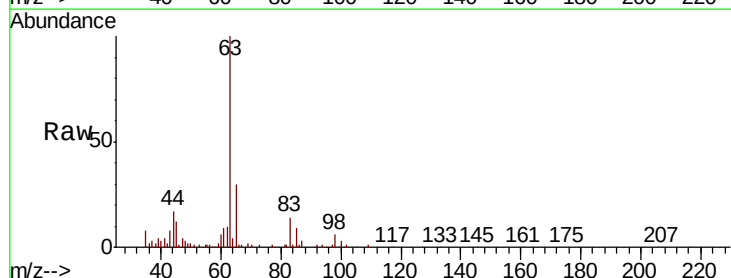
Tgt Ion: 63 Resp: 67863

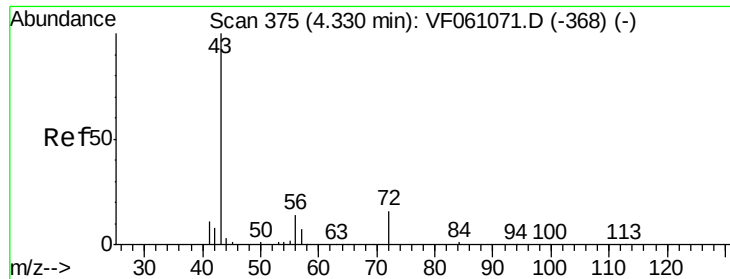
Ion Ratio Lower Upper

63 100

98 5.5 2.1 6.5

100 3.3 1.7 5.1





#25

2-Butanone

Concen: 116.775 ug/l

RT: 4.38 min Scan# 380

Delta R.T. 0.05 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 43 Resp: 102981

Ion Ratio Lower Upper

43 100

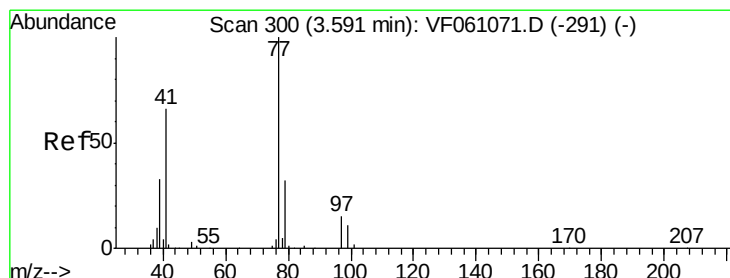
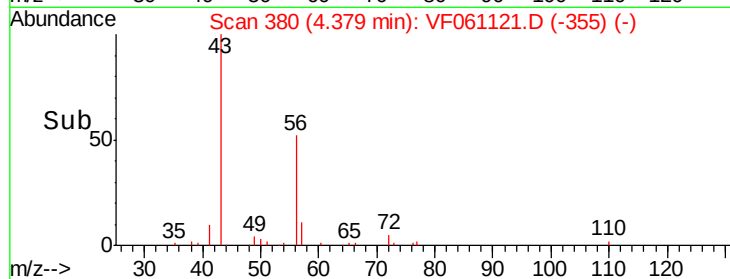
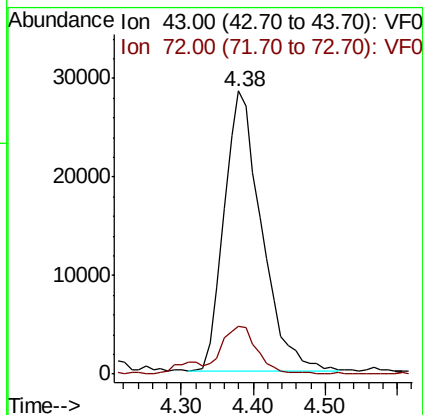
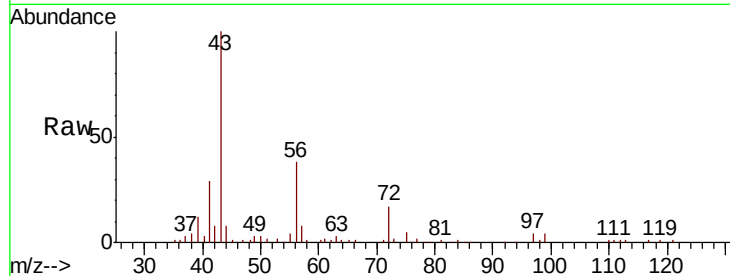
72 16.9 15.6 23.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 18.768 ug/l

RT: 3.63 min Scan# 304

Delta R.T. 0.04 min

Lab File: VF061121.D

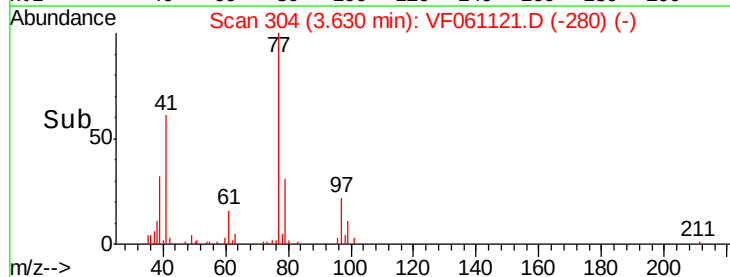
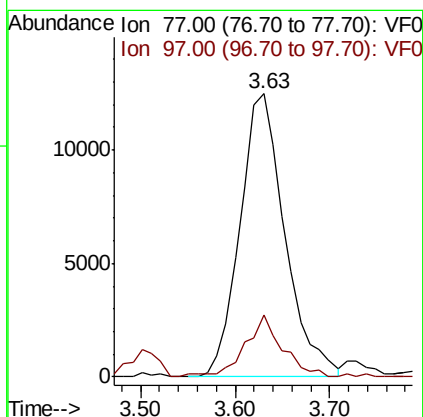
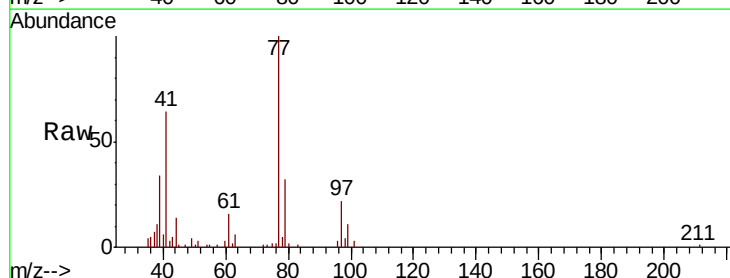
Acq: 21 Dec 2018 12:53

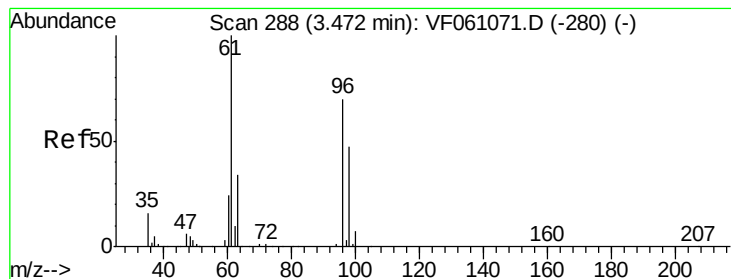
Tgt Ion: 77 Resp: 41238

Ion Ratio Lower Upper

77 100

97 21.7 8.2 24.4





#27

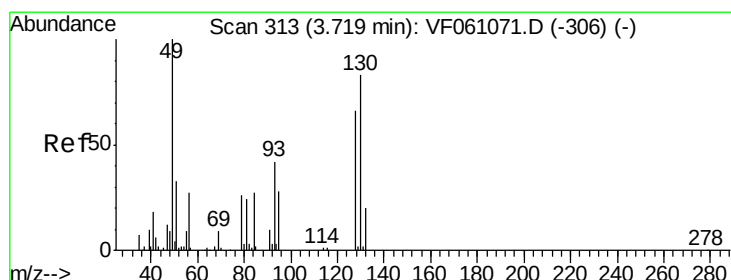
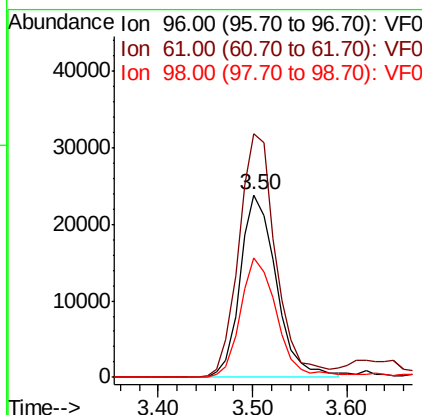
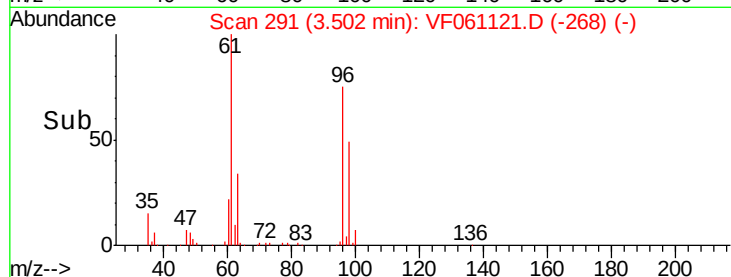
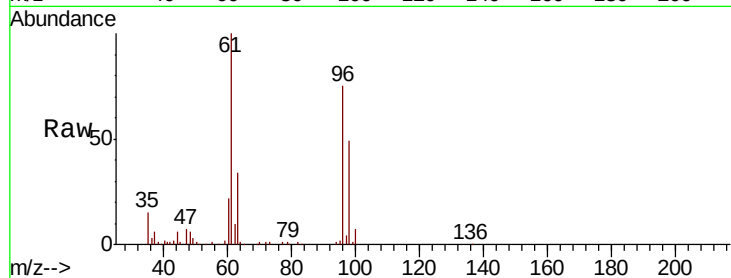
cis-1,2-Dichloroethene
Concen: 20.715 ug/l
RT: 3.50 min Scan# 291
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	63232		
61	133.2	0.0	287.8	
98	65.6	0.0	134.2	

Manual Integrations
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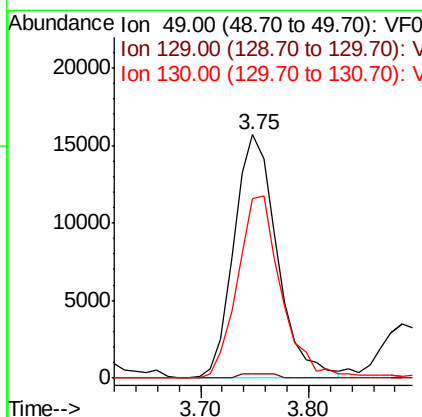
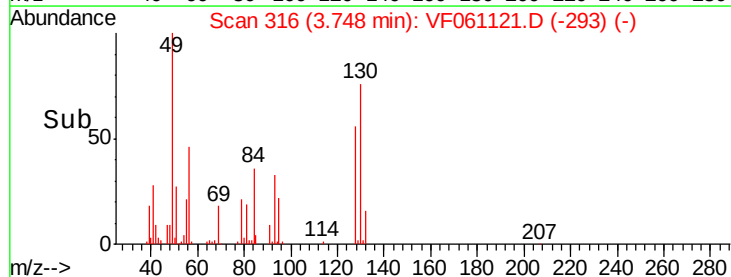
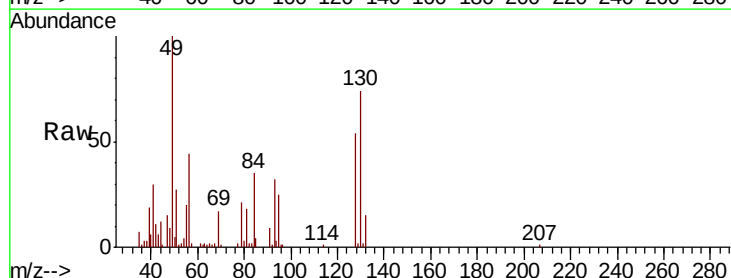
MMDadoda
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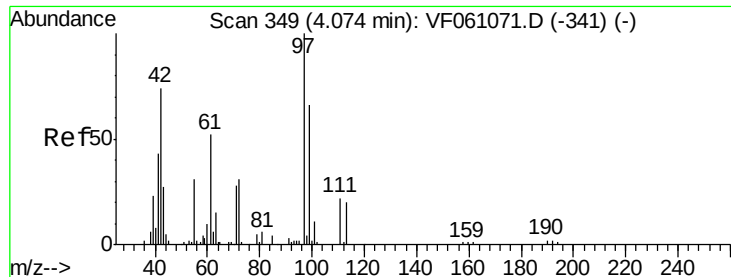


#28

Bromochloromethane
Concen: 22.512 ug/l
RT: 3.75 min Scan# 316
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	43734		
129	1.9	0.0	3.6	
130	73.9	65.8	98.6	





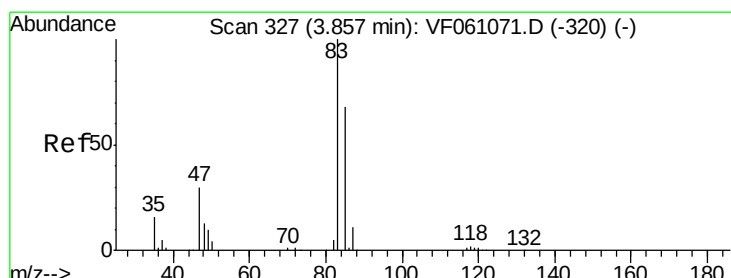
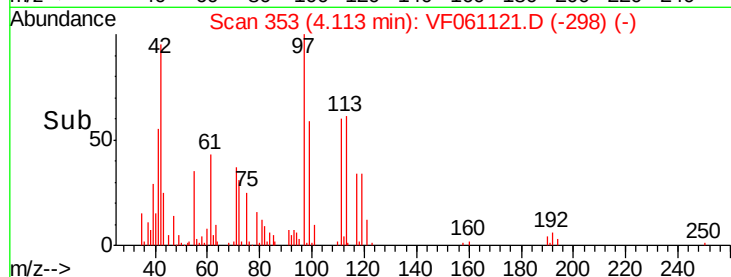
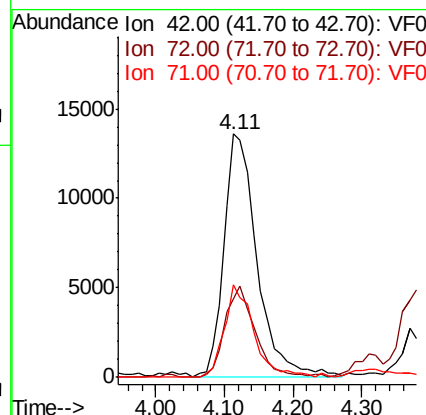
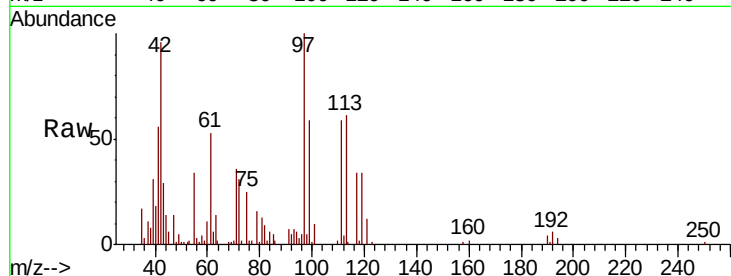
#29
Tetrahydrofuran
Concen: 126.684 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS001

Tgt Ion	Ratio	Lower	Upper
42	100		
72	34.6	31.8	47.8
71	33.6	29.7	44.5

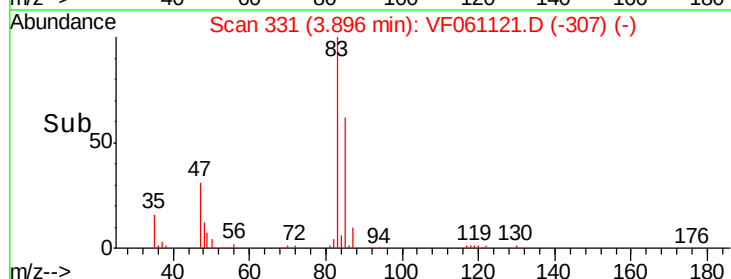
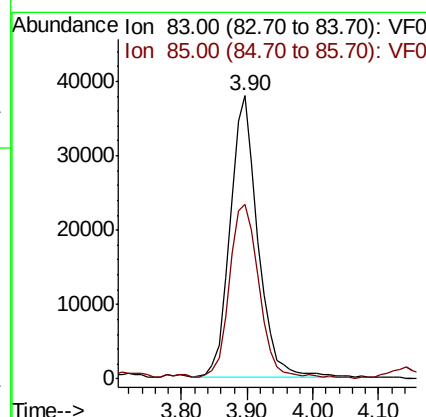
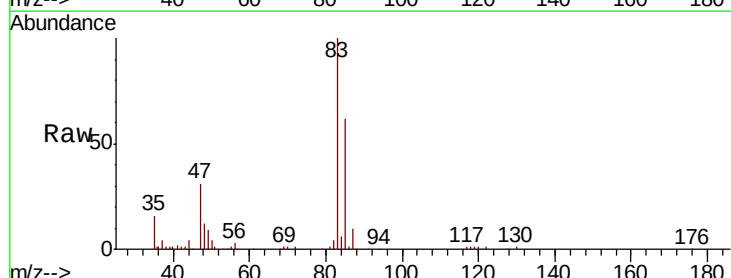
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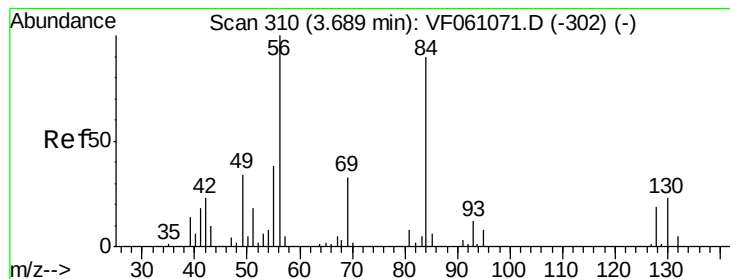
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#30
Chloroform
Concen: 19.293 ug/l
RT: 3.90 min Scan# 331
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.7	54.5	81.7





#31

Cyclohexane

Concen: 22.136 ug/l m

RT: 3.72 min Scan# 313

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 56 Resp: 87947

Ion Ratio Lower Upper

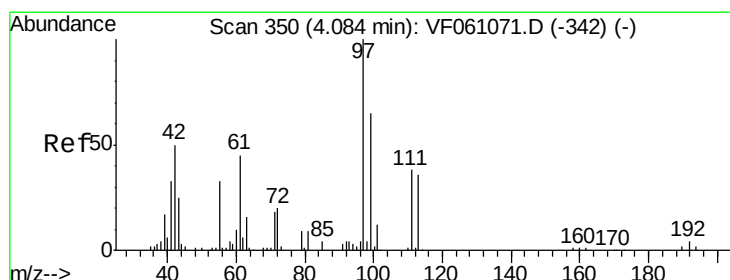
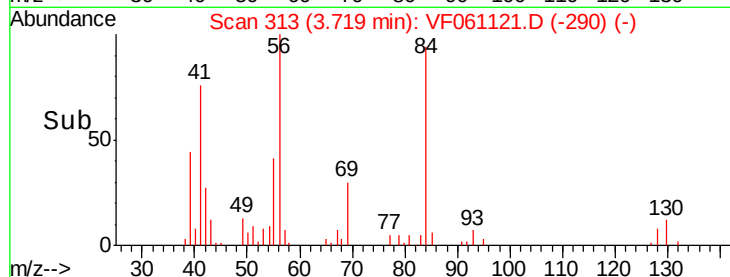
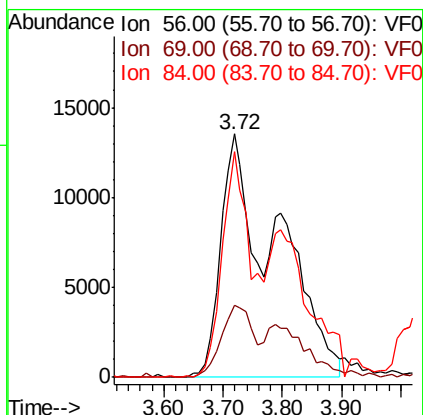
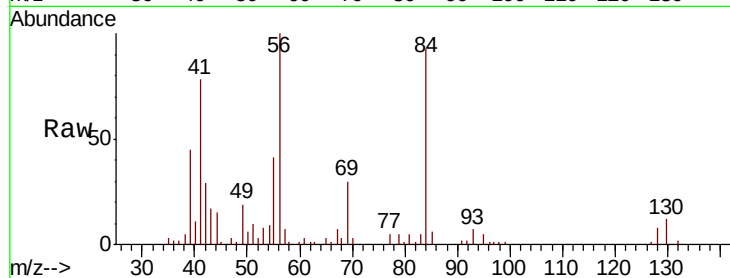
56 100

69 29.5 26.0 39.0

84 92.8 71.4 107.2

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 22.919 ug/l m

RT: 4.12 min Scan# 354

Delta R.T. 0.04 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

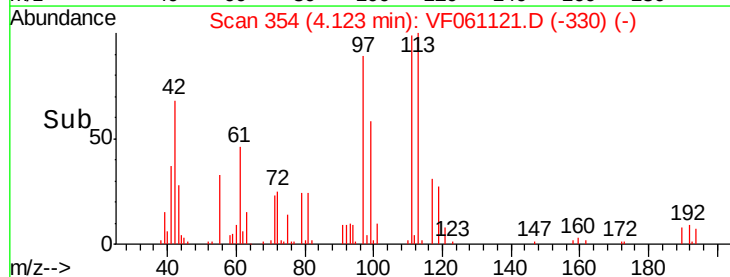
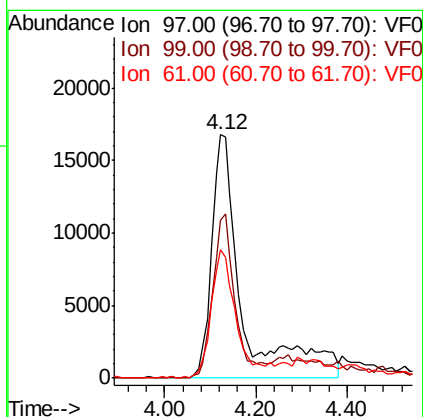
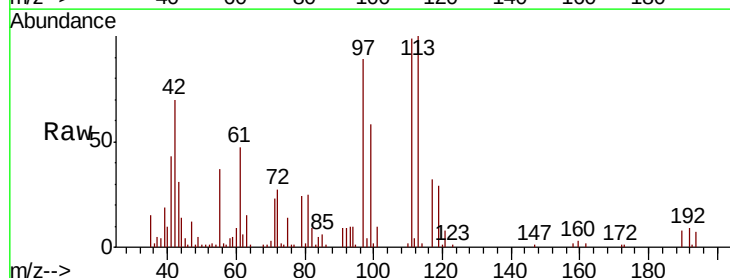
Tgt Ion: 97 Resp: 78866

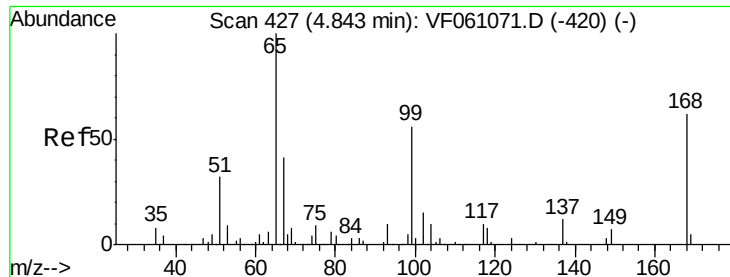
Ion Ratio Lower Upper

97 100

99 65.0 51.6 77.4

61 52.6 36.2 54.2





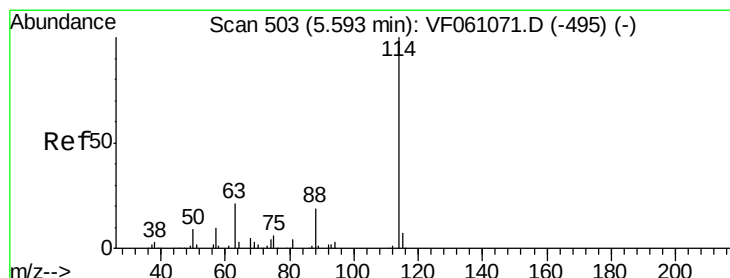
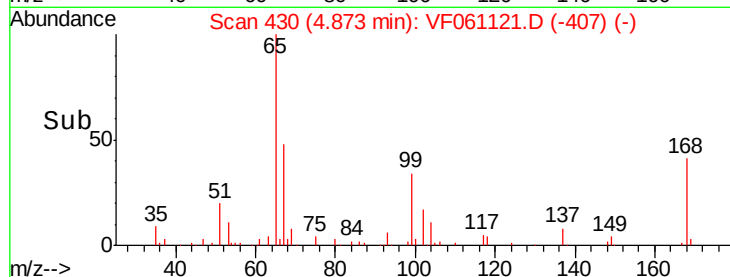
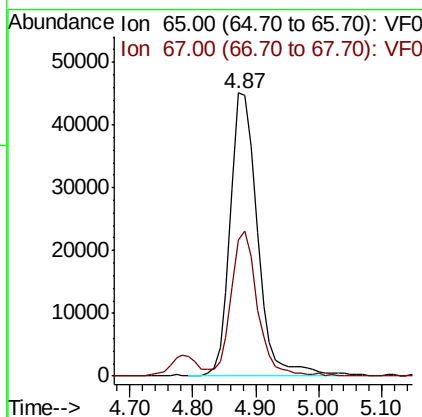
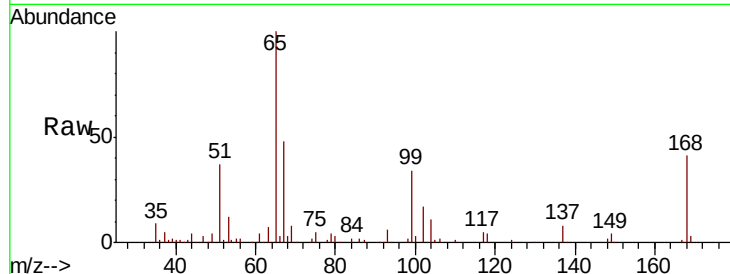
#33
 1,2-Dichloroethane-d4
 Concen: 49.202 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	133831		
67	47.9	0.0	94.6	

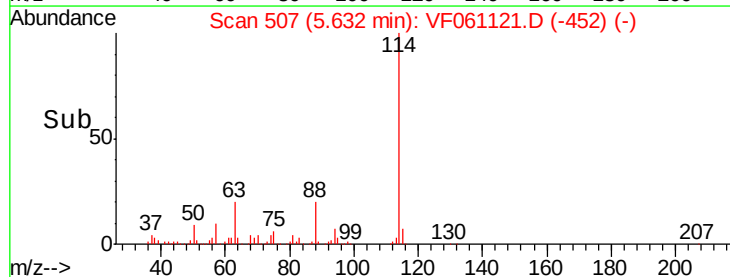
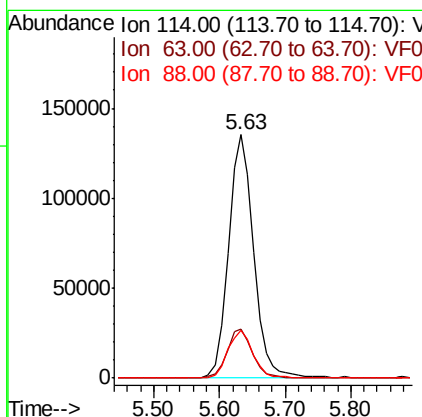
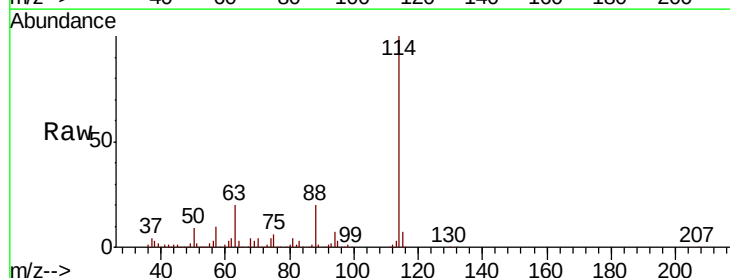
Manual Integrations
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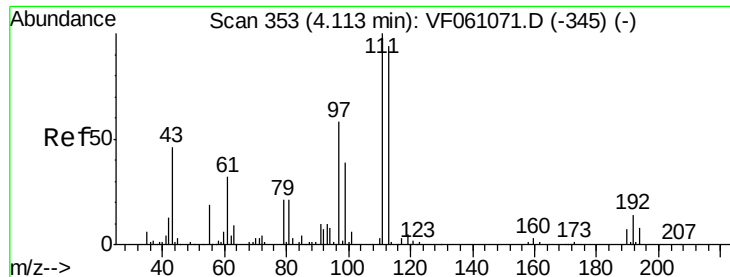
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 507
 Delta R.T. 0.04 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	361459		
63	20.0	0.0	41.6	
88	19.6	0.0	38.0	





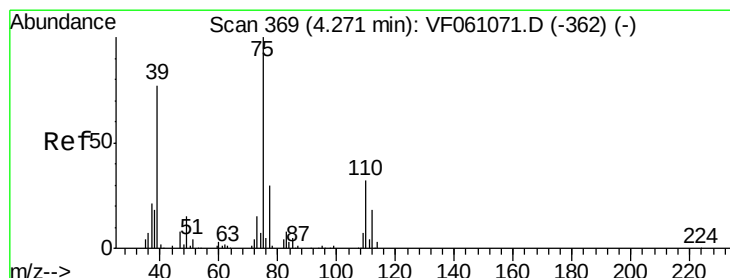
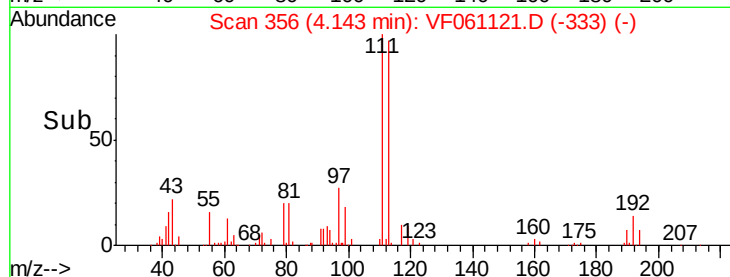
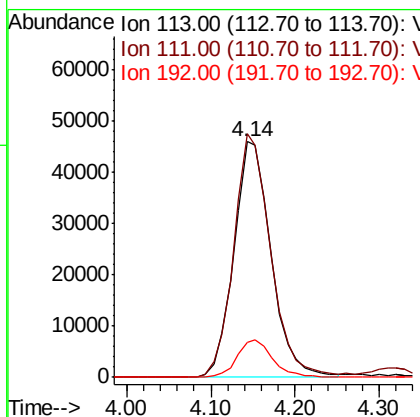
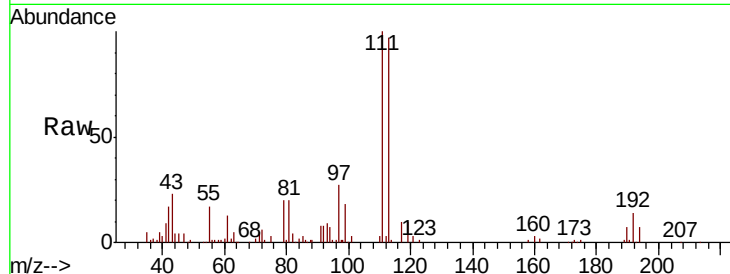
#35
 Dibromofluoromethane
 Concen: 49.060 ug/l
 RT: 4.14 min Scan# 356
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	142052		
111	103.4	85.2	127.8	
192	15.1	12.8	19.2	

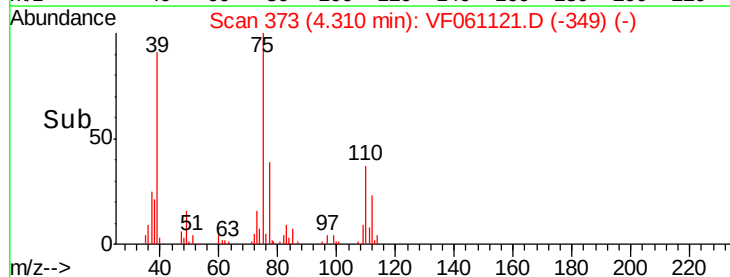
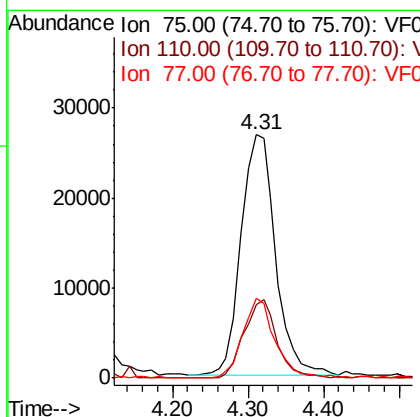
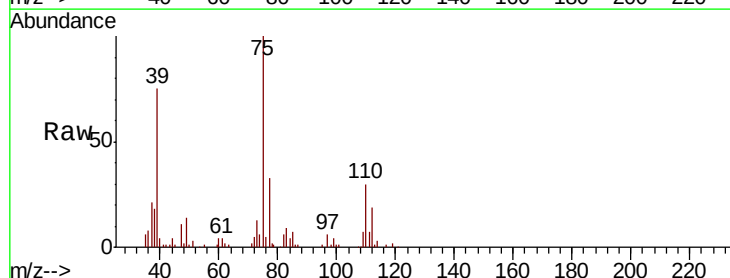
Manual Integrations
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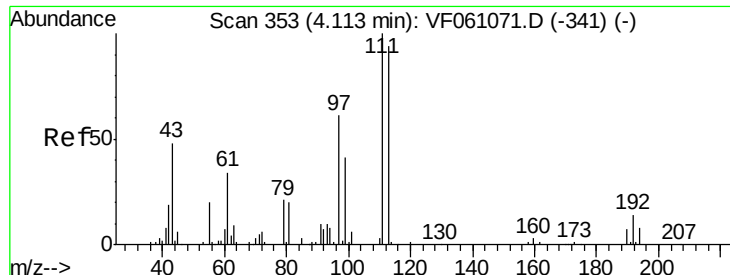
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#36
 1,1-Dichloropropene
 Concen: 19.436 ug/l
 RT: 4.31 min Scan# 373
 Delta R.T. 0.04 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	84800		
110	30.0	16.1	48.2	
77	32.5	24.5	36.7	





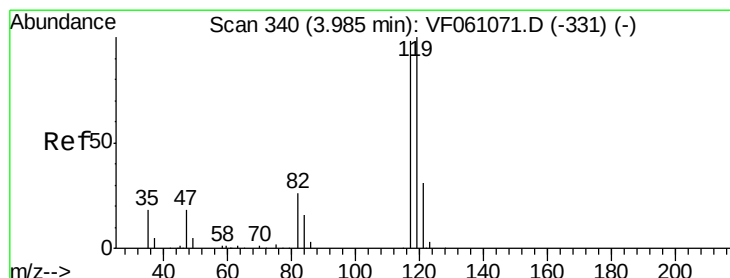
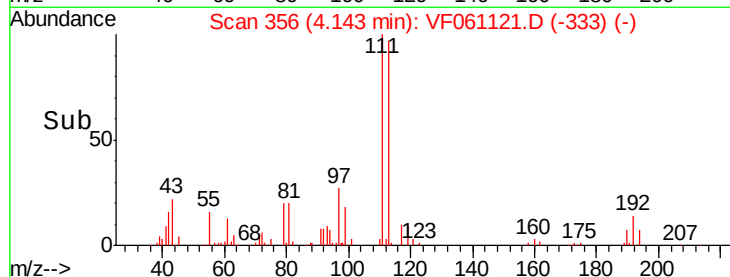
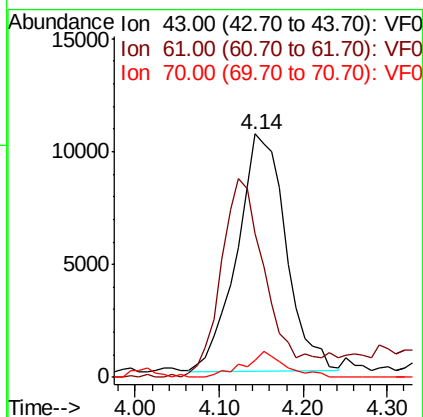
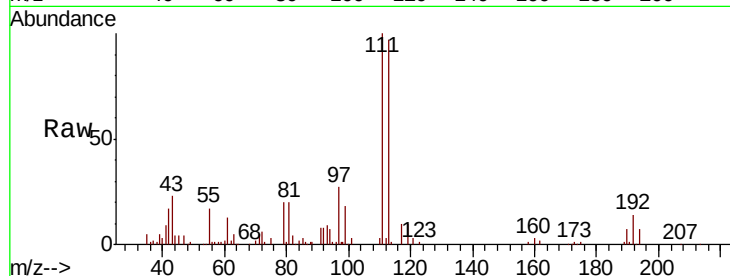
#37
Ethyl Acetate
Concen: 23.062 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	59.3	56.6	84.8
70	6.8	6.3	9.5

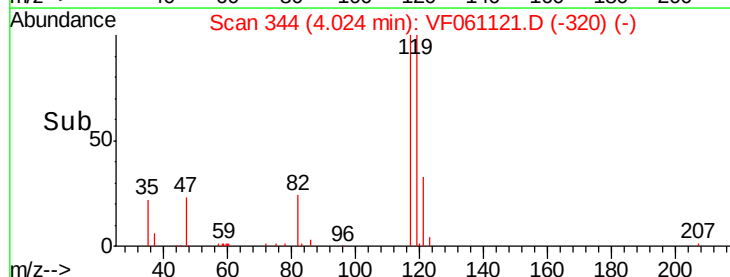
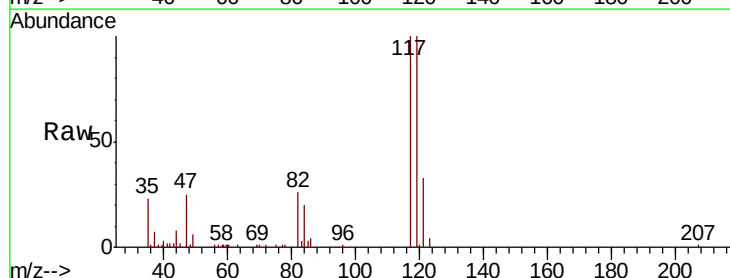
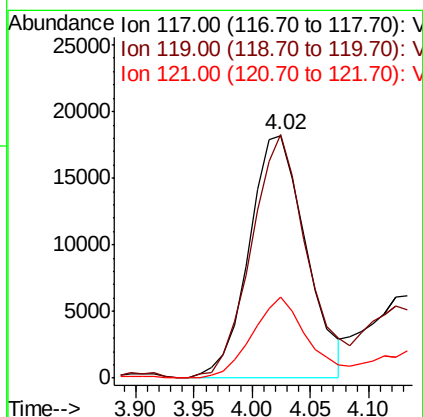
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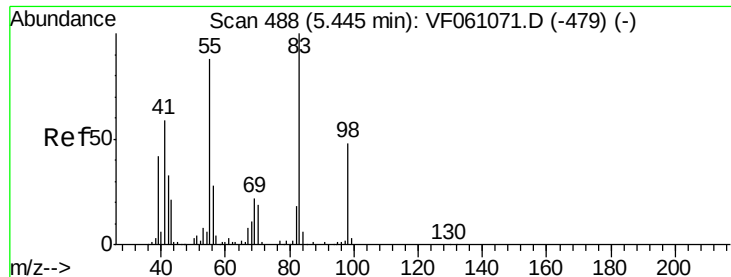
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#38
Carbon Tetrachloride
Concen: 18.607 ug/l
RT: 4.02 min Scan# 344
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.4	82.1	123.1
121	33.5	25.5	38.3





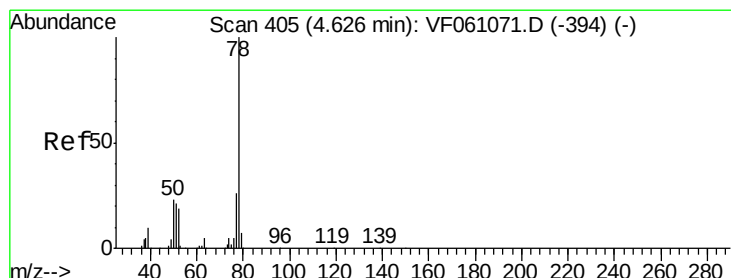
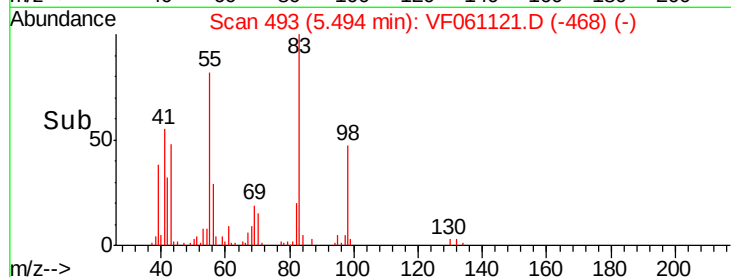
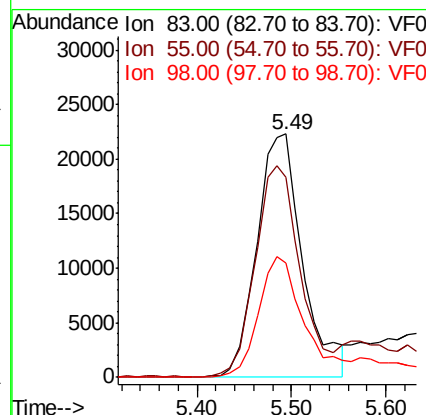
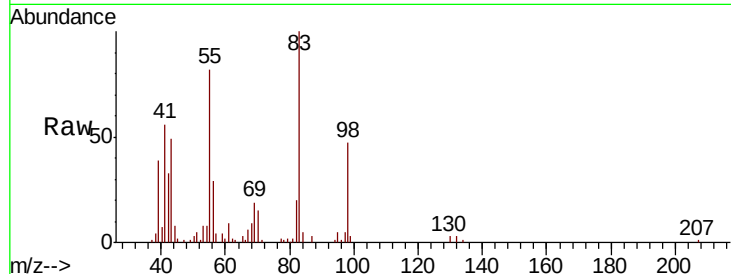
#39
Methylcyclohexane
Concen: 19.207 ug/l
RT: 5.49 min Scan# 493
Delta R.T. 0.05 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion	Ratio	Lower	Upper
83	100		
55	82.2	70.6	105.8
98	47.2	38.5	57.7

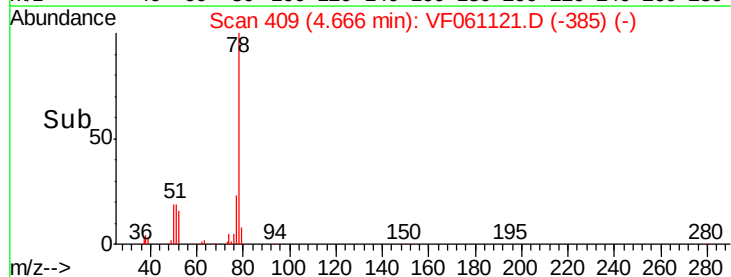
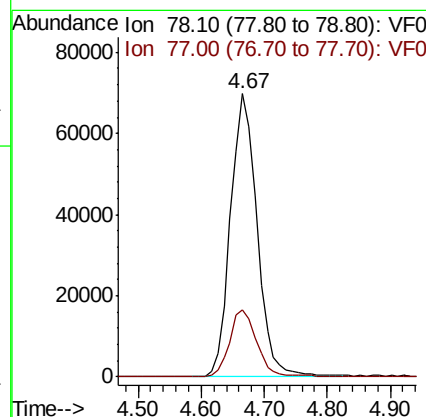
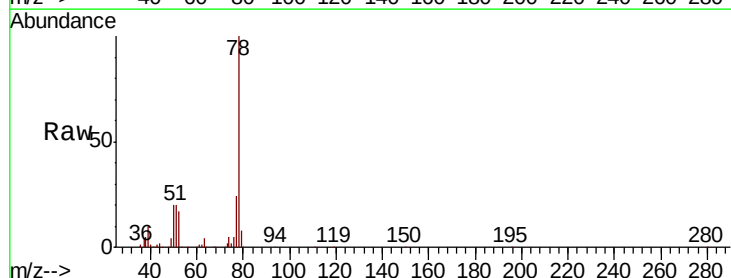
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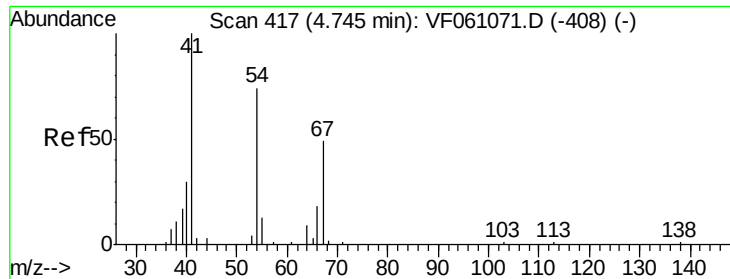
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#40
Benzene
Concen: 21.753 ug/l
RT: 4.67 min Scan# 409
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	20.7	31.1





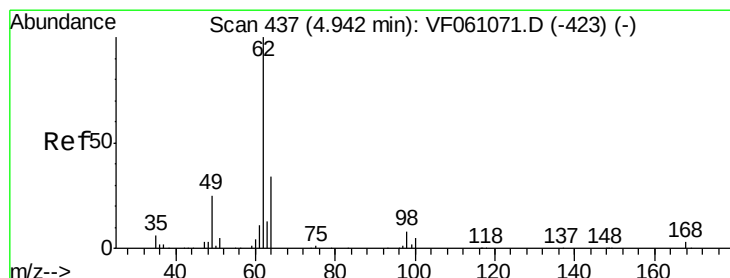
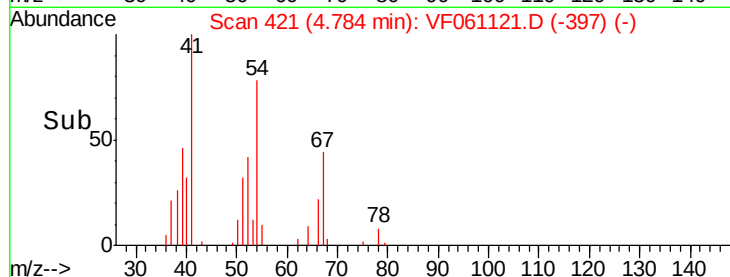
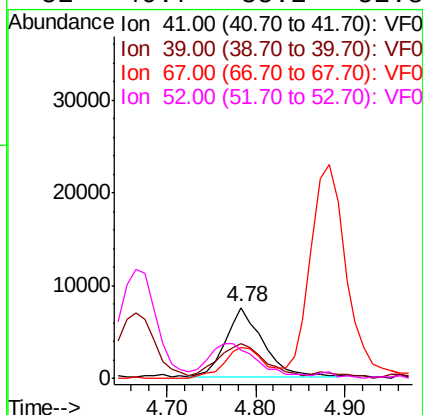
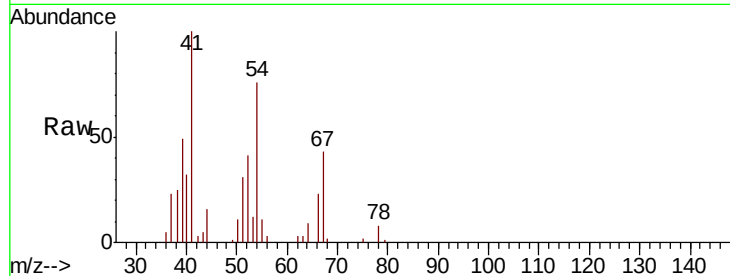
#41
Methacrylonitrile
Concen: 23.629 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion	Ratio	Lower	Upper
41	100		
39	49.1	45.7	68.5
67	43.2	38.9	58.3
52	40.7	35.2	52.8

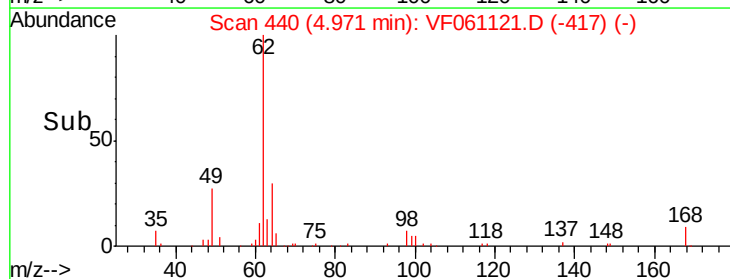
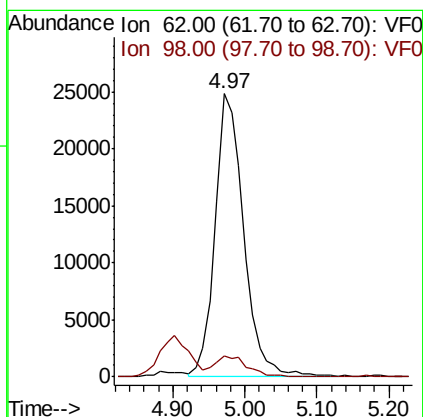
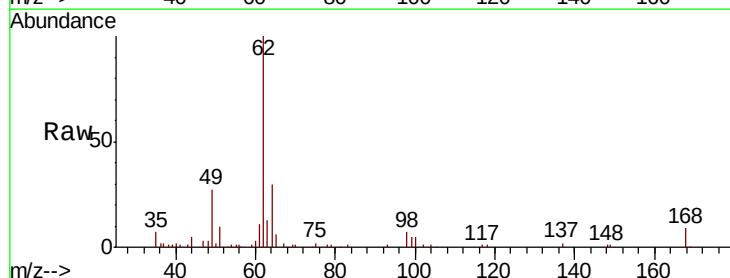
Manual Integrations
APPROVED

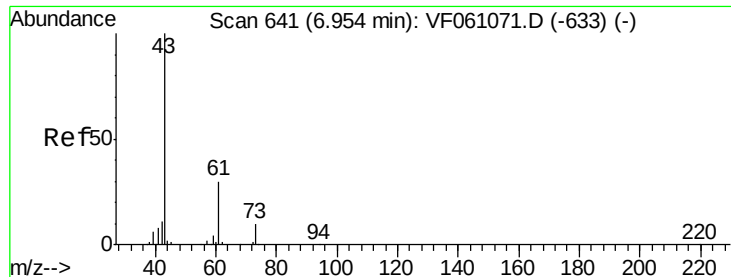
MMDadoda
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#42
1,2-Dichloroethane
Concen: 19.131 ug/l
RT: 4.97 min Scan# 440
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	16.6





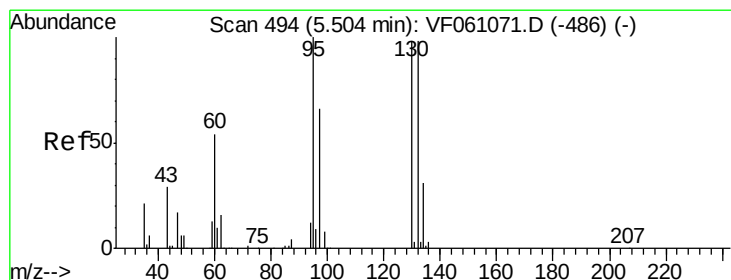
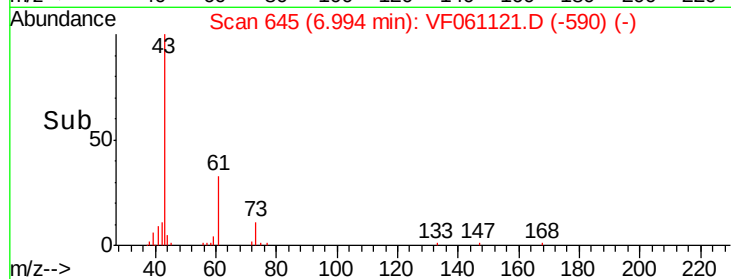
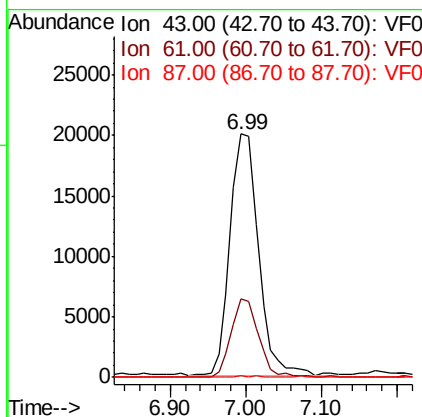
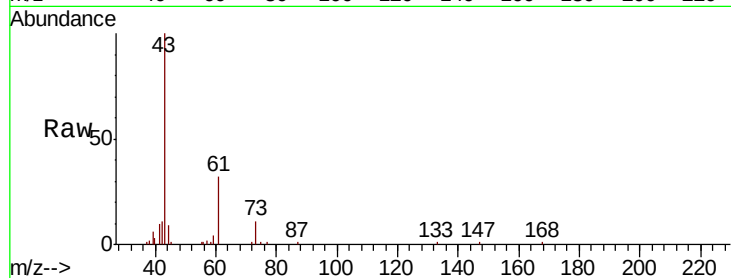
#43
Isopropyl Acetate
Concen: 24.965 ug/l
RT: 6.99 min Scan# 645
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion	Ratio	Lower	Upper
43	100		
61	32.1	23.8	35.8
87	0.7	0.0	0.0#

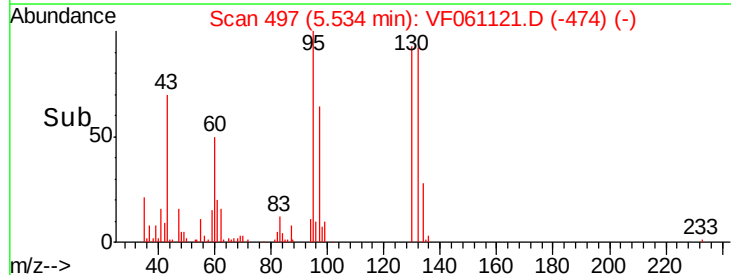
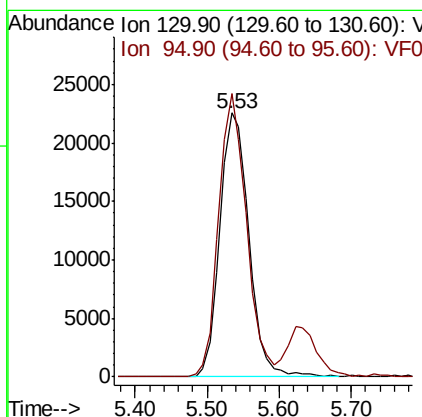
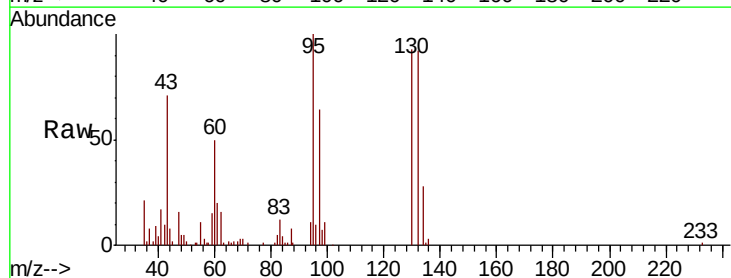
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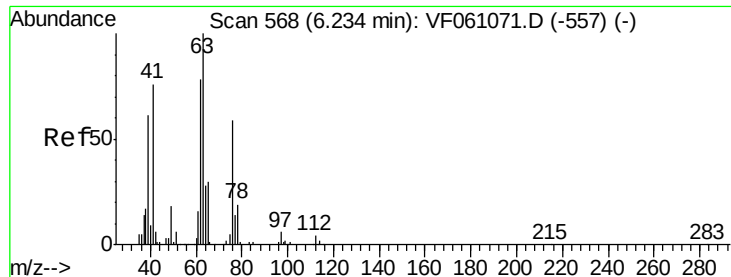
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#44
Trichloroethene
Concen: 21.250 ug/l
RT: 5.53 min Scan# 497
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Lower	Upper
130	100		
95	107.4	0.0	205.2





#45

1,2-Dichloropropane

Concen: 20.956 ug/l

RT: 6.26 min Scan# 571

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 63 Resp: 53495

Ion Ratio Lower Upper

63 100

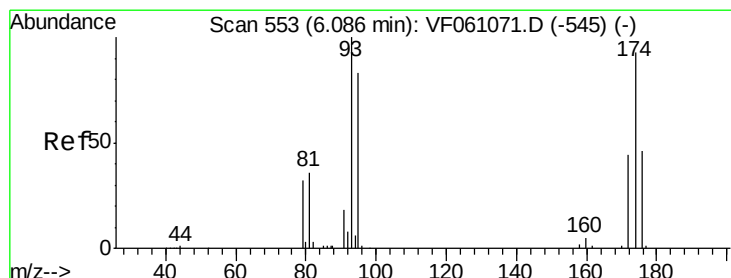
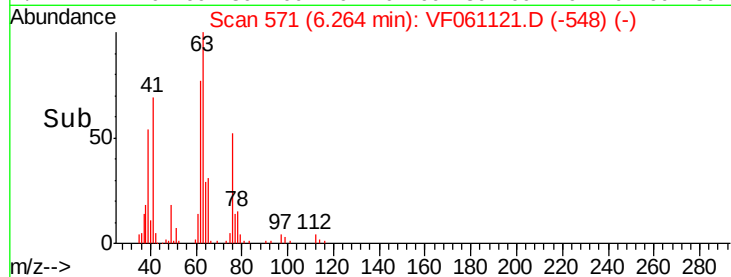
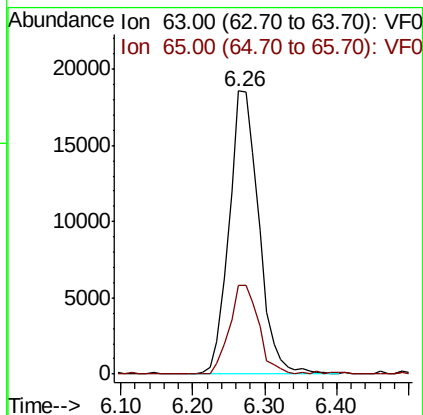
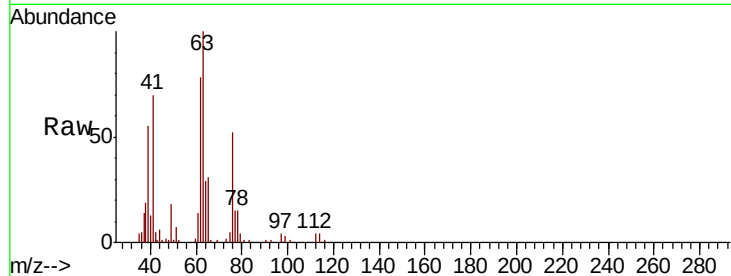
65 31.4 24.4 36.6

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#46

Dibromomethane

Concen: 21.527 ug/l

RT: 6.12 min Scan# 556

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

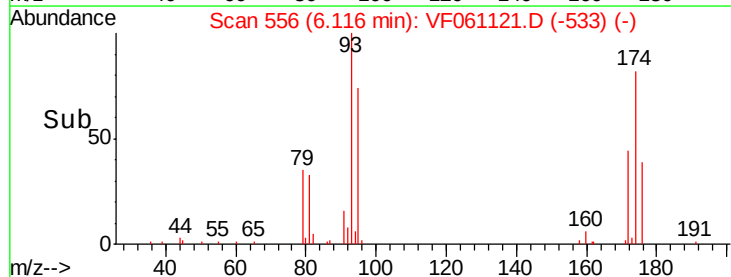
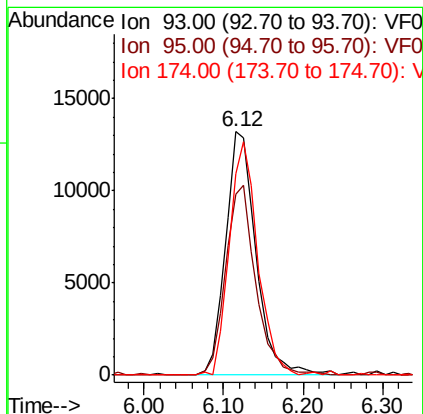
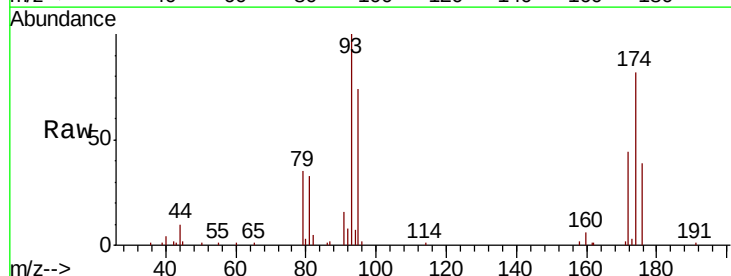
Tgt Ion: 93 Resp: 35642

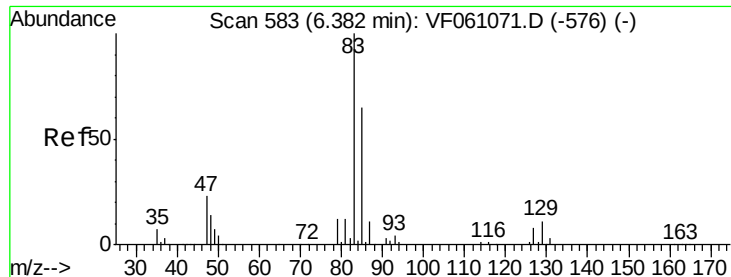
Ion Ratio Lower Upper

93 100

95 74.4 66.9 100.3

174 82.5 74.1 111.1





#47

Bromodichloromethane

Concen: 20.557 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.04 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

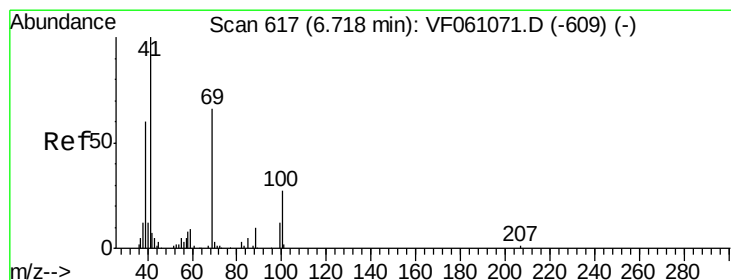
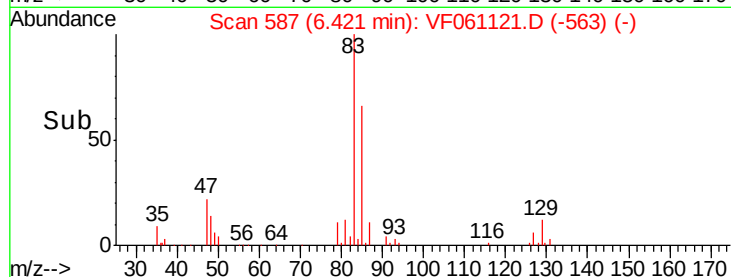
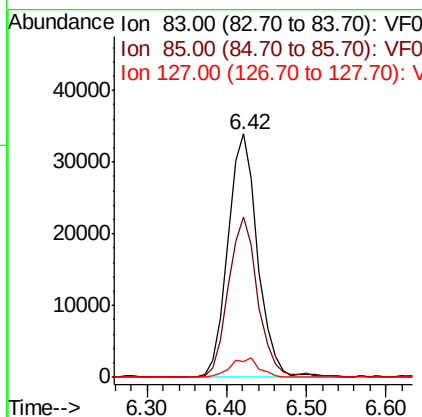
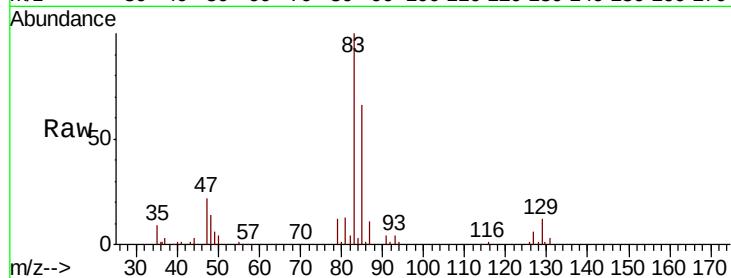
ClientSampleId :

VF1221SBS01

Tgt Ion:	83	Resp:	88433
Ion Ratio	Lower	Upper	
83	100		
85	65.7	52.2	78.4
127	6.3	6.1	9.1

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#48

Methyl methacrylate

Concen: 22.610 ug/l

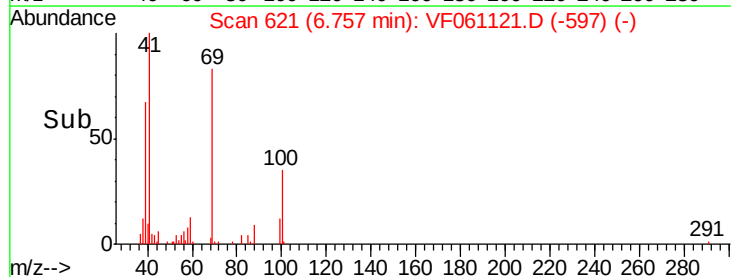
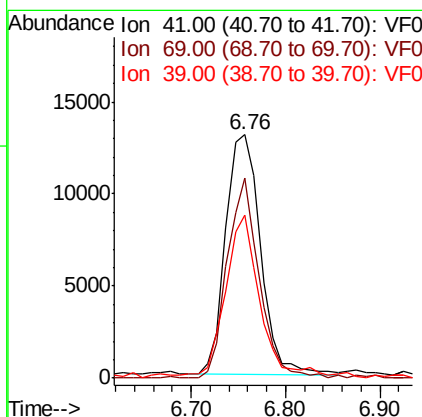
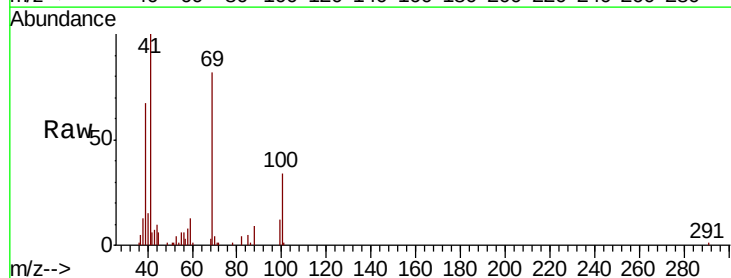
RT: 6.76 min Scan# 621

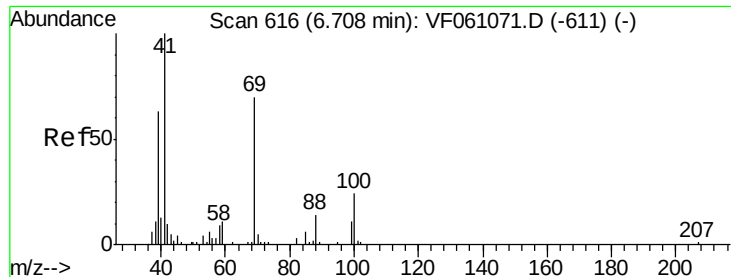
Delta R.T. 0.04 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Tgt Ion:	41	Resp:	33252
Ion Ratio	Lower	Upper	
41	100		
69	82.1	52.7	79.1#
39	67.1	47.8	71.6





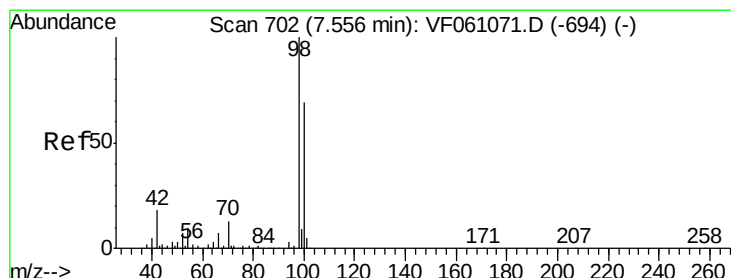
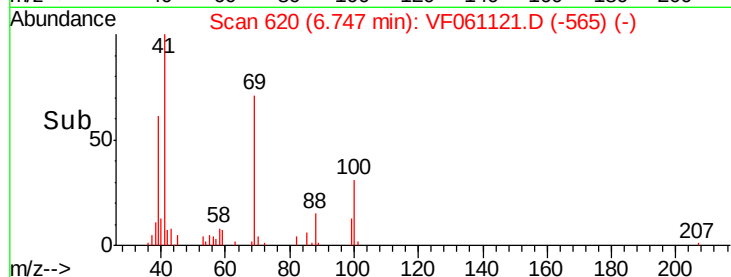
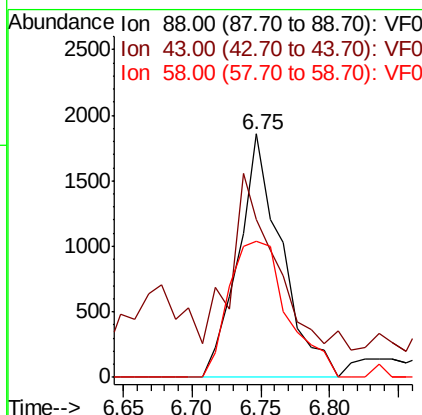
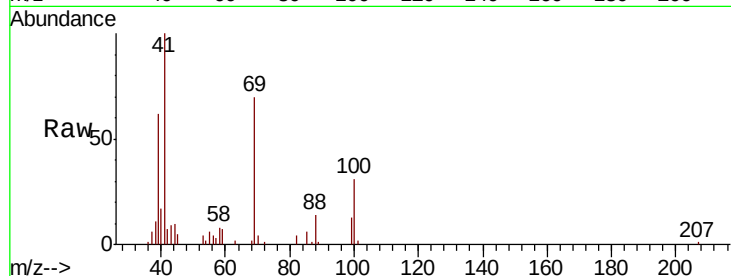
#49
1,4-Dioxane
Concen: 379.332 ug/l
RT: 6.75 min Scan# 620
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion	Ratio	Lower	Upper
88	100		
43	64.8	33.3	49.9#
58	56.0	53.2	79.8

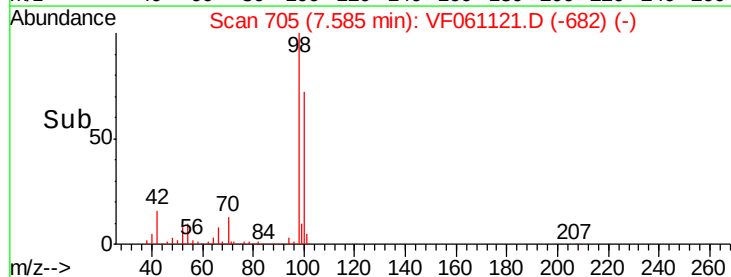
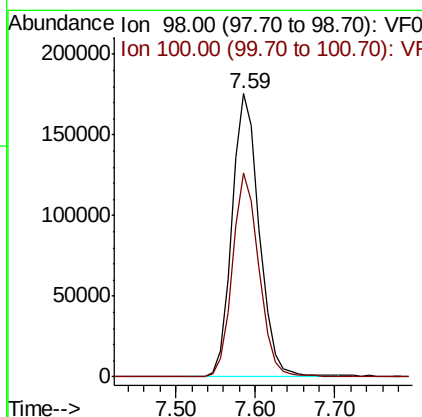
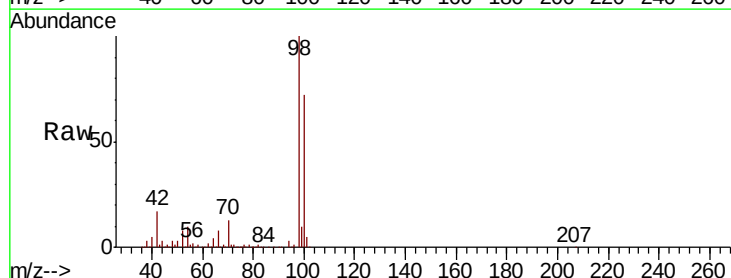
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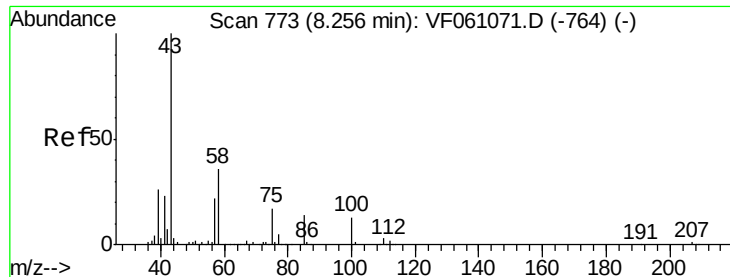
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#50
Toluene-d8
Concen: 51.117 ug/l
RT: 7.59 min Scan# 705
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	72.1	55.3	82.9





#51

4-Methyl-2-Pentanone

Concen: 119.719 ug/l

RT: 8.30 min Scan# 777

Delta R.T. 0.04 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 43 Resp: 172973

Ion Ratio Lower Upper

43 100

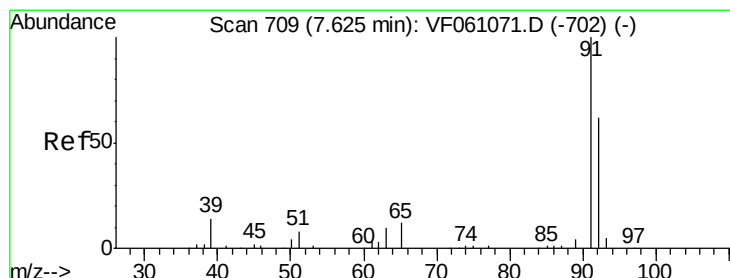
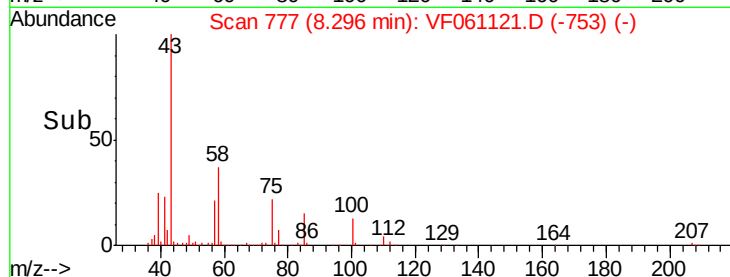
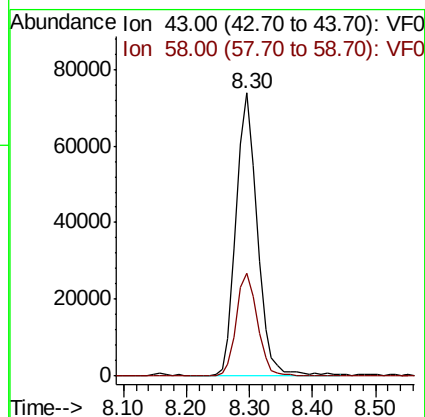
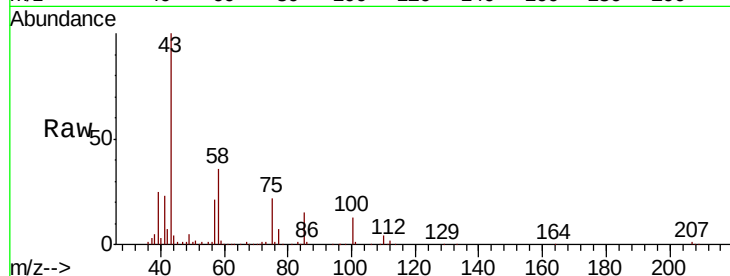
58 36.5 29.1 43.7

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#52

Toluene

Concen: 21.722 ug/l

RT: 7.65 min Scan# 712

Delta R.T. 0.03 min

Lab File: VF061121.D

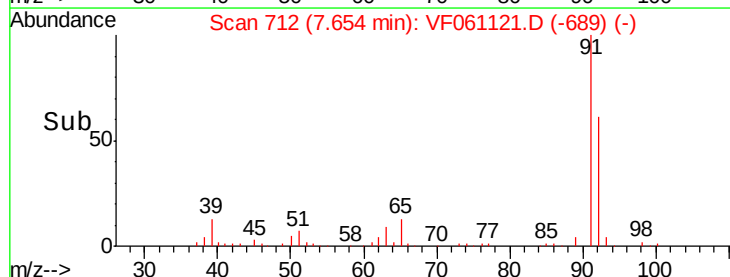
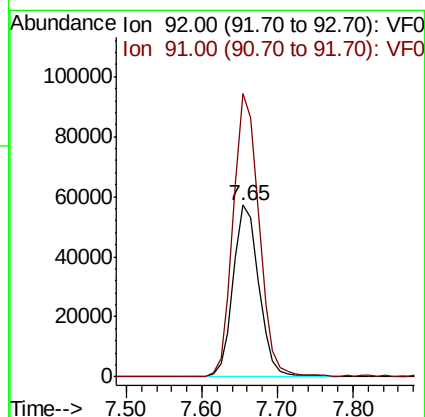
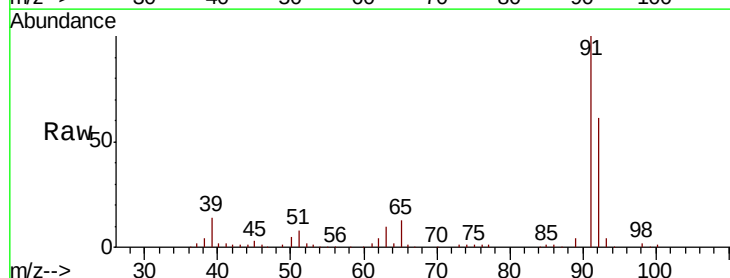
Acq: 21 Dec 2018 12:53

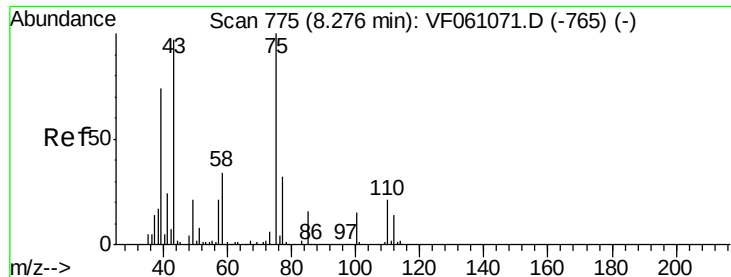
Tgt Ion: 92 Resp: 134916

Ion Ratio Lower Upper

92 100

91 165.0 128.8 193.2





#53

t-1,3-Dichloropropene

Concen: 21.382 ug/l

RT: 8.32 min Scan# 779

Delta R.T. 0.04 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 75 Resp: 74204

Ion Ratio Lower Upper

75 100

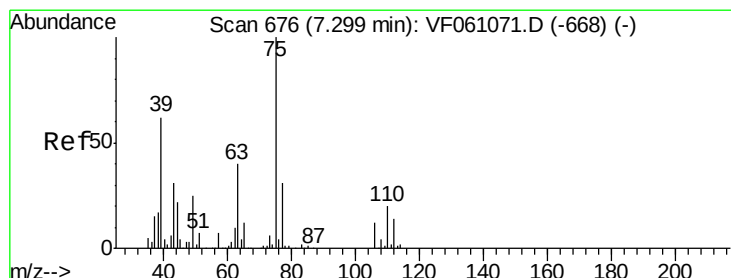
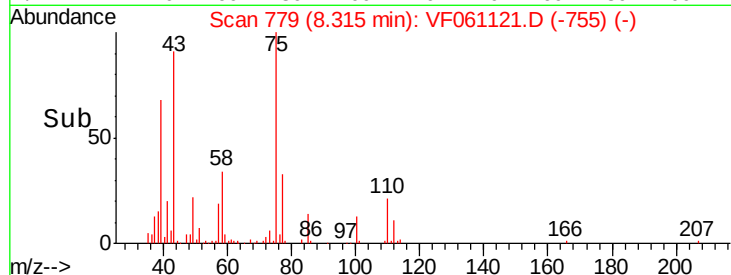
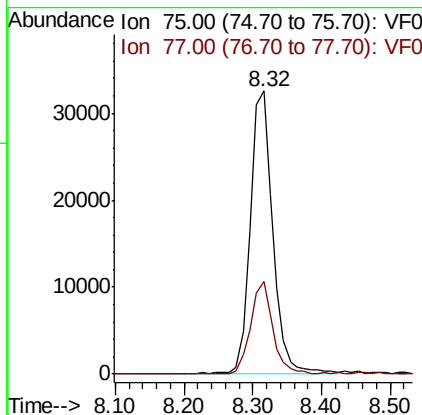
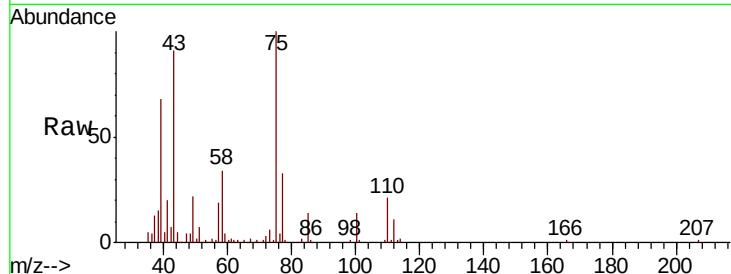
77 32.5 25.8 38.8

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#54

cis-1,3-Dichloropropene

Concen: 22.263 ug/l

RT: 7.34 min Scan# 680

Delta R.T. 0.04 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

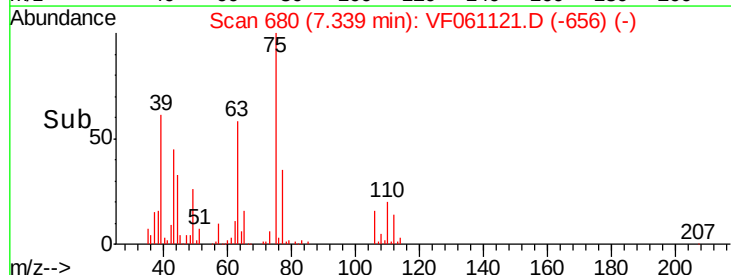
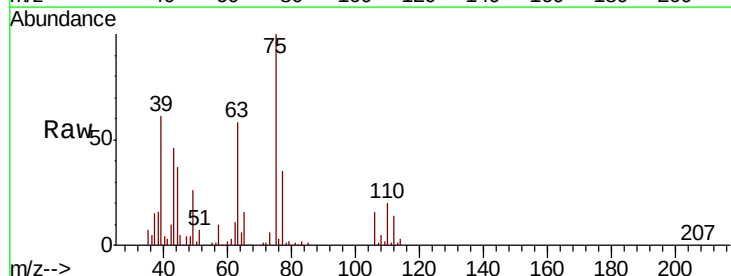
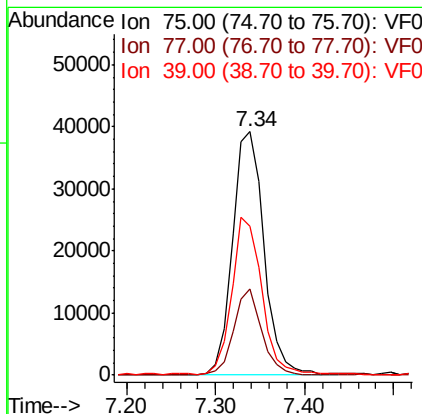
Tgt Ion: 75 Resp: 96970

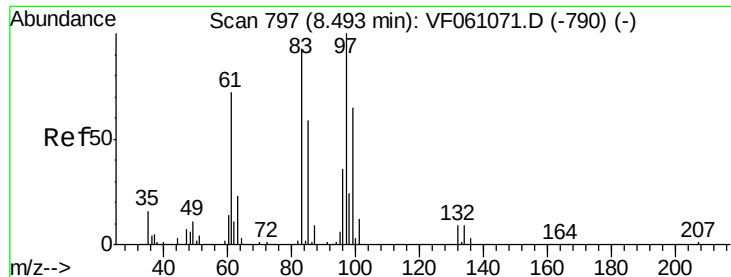
Ion Ratio Lower Upper

75 100

77 35.3 25.0 37.4

39 61.2 50.1 75.1





#55

1,1,2-Trichloroethane

Concen: 22.042 ug/l

RT: 8.52 min Scan# 800

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

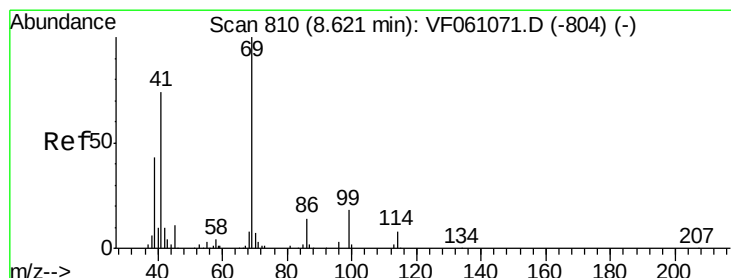
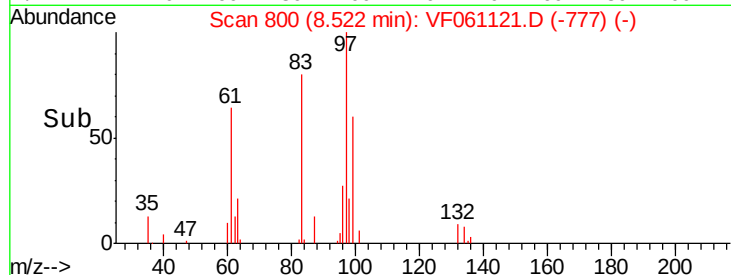
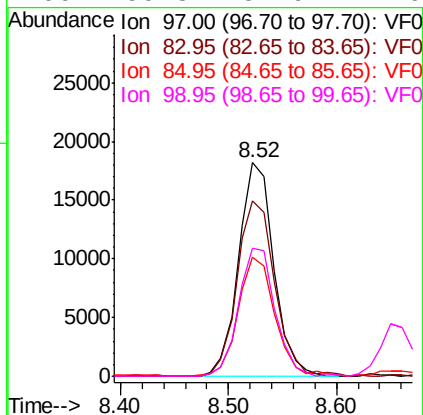
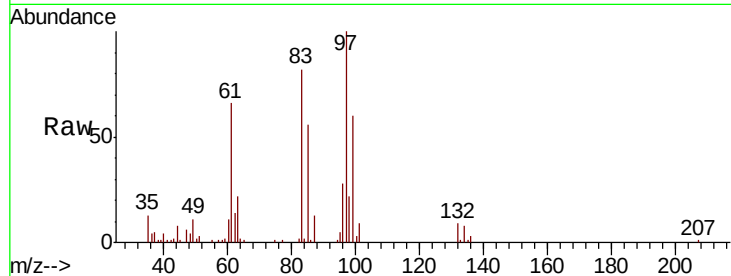
ClientSampleId :

VF1221SBS01

Tgt Ion:	97	Resp:	41040
Ion	Ratio	Lower	Upper
97	100		
83	82.1	75.0	112.4
85	55.9	47.5	71.3
99	59.8	51.9	77.9

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#56

Ethyl methacrylate

Concen: 23.562 ug/l

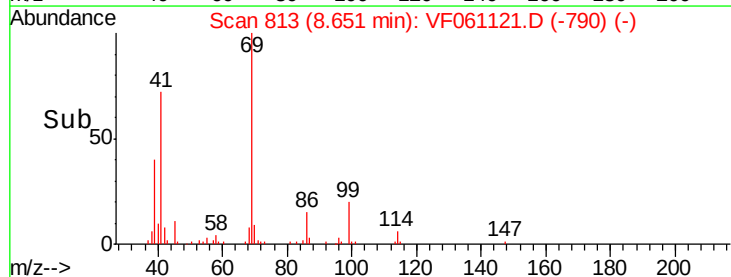
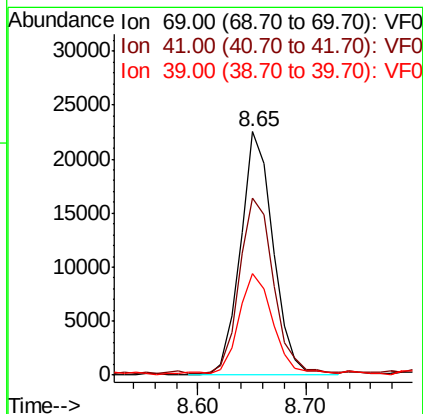
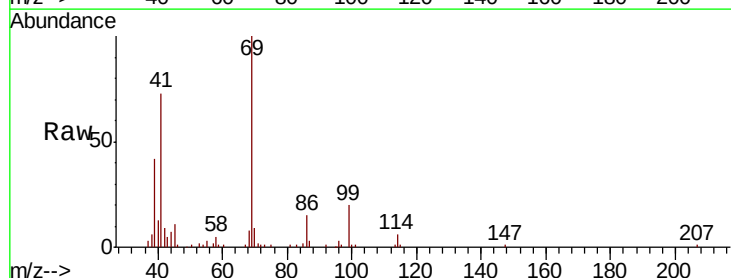
RT: 8.65 min Scan# 813

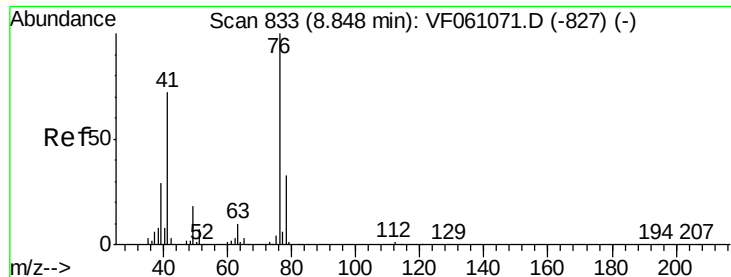
Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Tgt Ion:	69	Resp:	47471
Ion	Ratio	Lower	Upper
69	100		
41	72.9	59.7	89.5
39	41.7	35.0	52.6





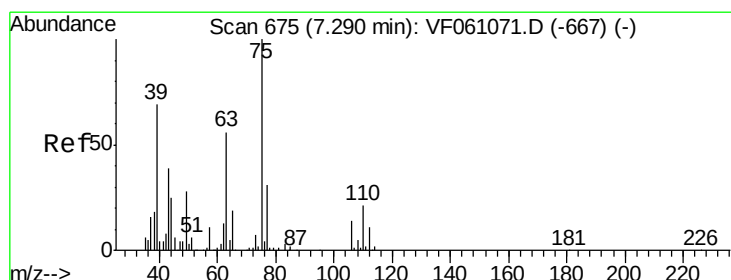
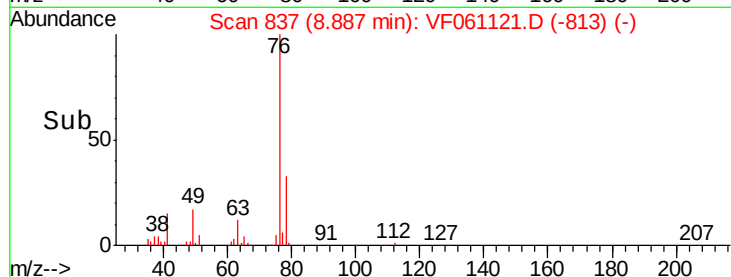
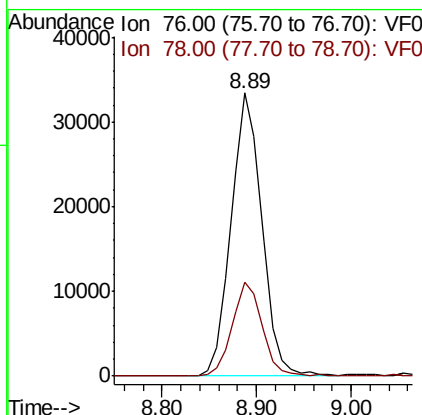
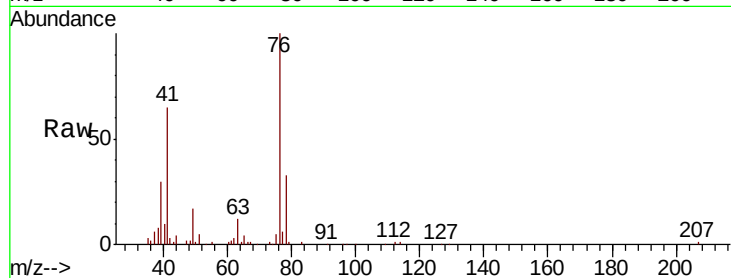
#57
 1,3-Dichloropropane
 Concen: 22.338 ug/l
 RT: 8.89 min Scan# 837
 Delta R.T. 0.04 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Tgt Ion: 76 Resp: 75226
 Ion Ratio Lower Upper
 76 100
 78 33.1 26.5 39.7

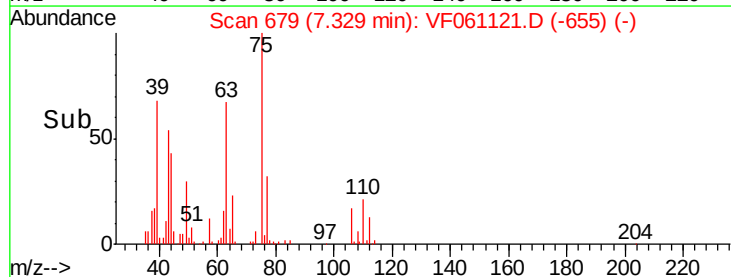
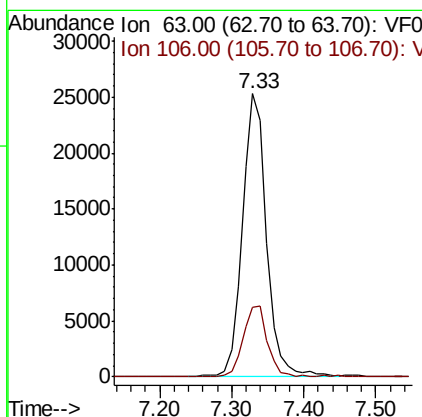
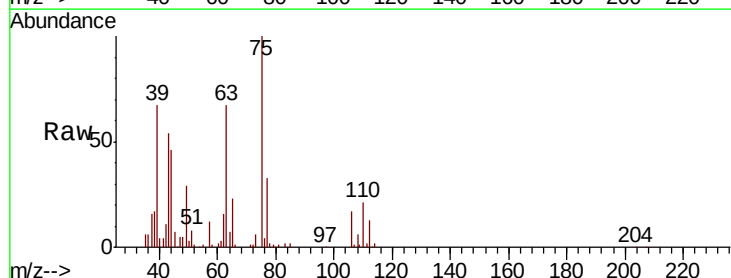
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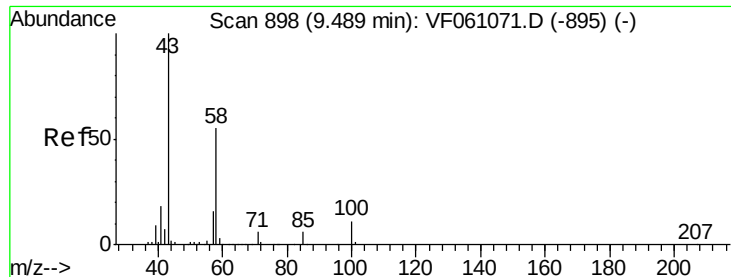
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#58
 2-Chloroethyl Vinyl ether
 Concen: 152.283 ug/l
 RT: 7.33 min Scan# 679
 Delta R.T. 0.04 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Tgt Ion: 63 Resp: 58926
 Ion Ratio Lower Upper
 63 100
 106 24.8 19.8 29.8





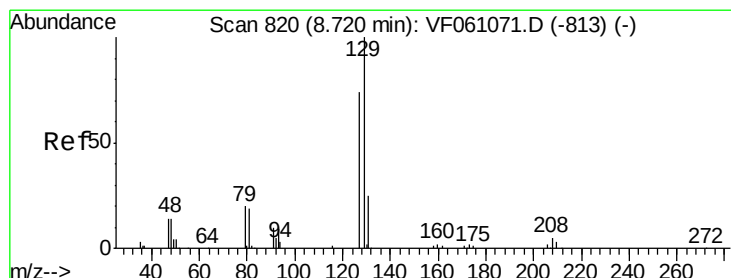
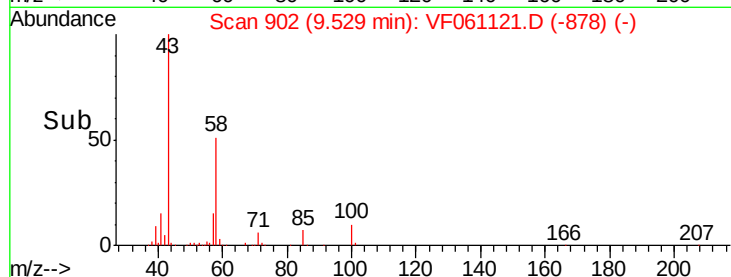
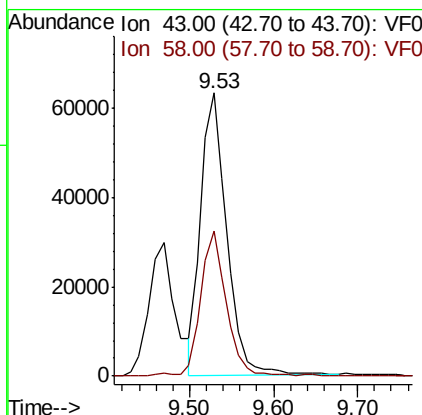
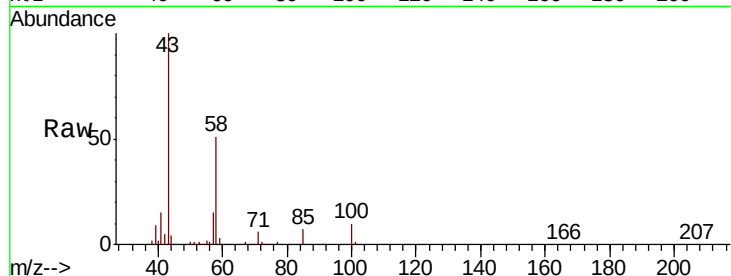
#59
2-Hexanone
Concen: 129.882 ug/l
RT: 9.53 min Scan# 902
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion: 43 Resp: 135709
Ion Ratio Lower Upper
43 100
58 51.1 25.1 75.2

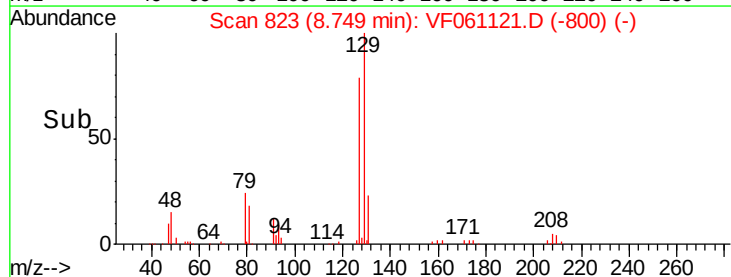
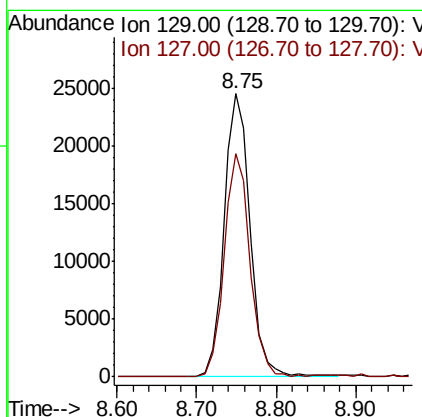
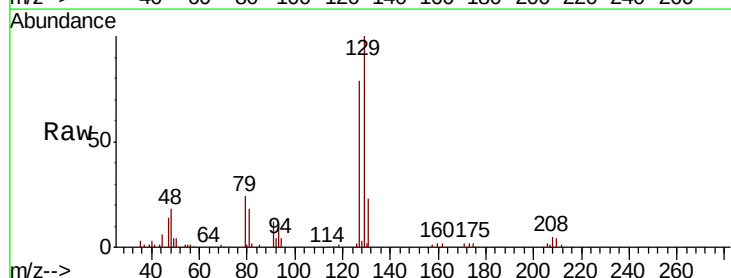
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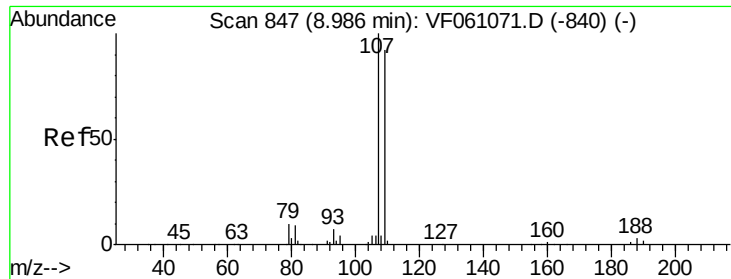
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#60
Dibromochloromethane
Concen: 21.157 ug/l
RT: 8.75 min Scan# 823
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion: 129 Resp: 56469
Ion Ratio Lower Upper
129 100
127 79.0 36.8 110.3





#61

1,2-Dibromoethane

Concen: 21.723 ug/l

RT: 9.03 min Scan# 851

Delta R.T. 0.04 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 107 Resp: 43197

Ion Ratio Lower Upper

107 100

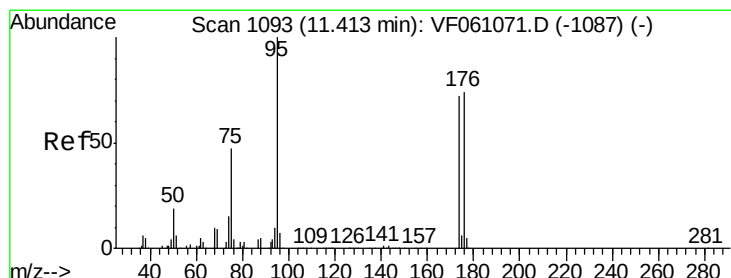
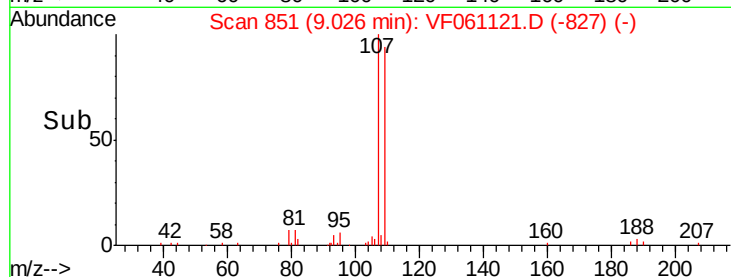
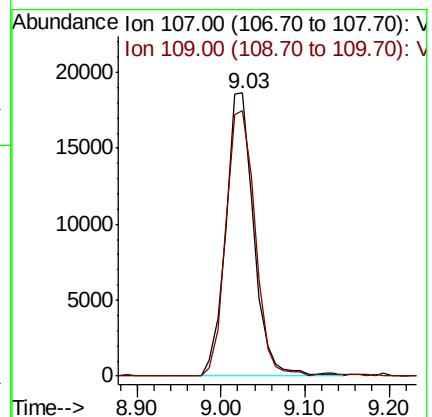
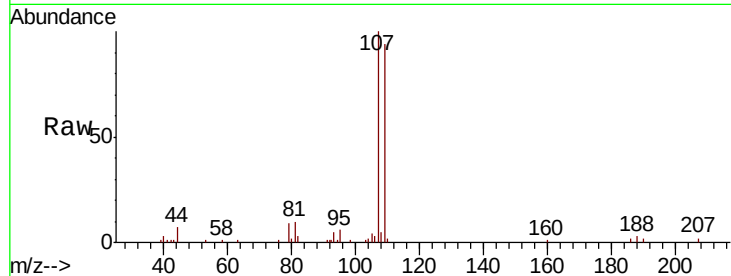
109 93.6 73.7 110.5

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#62

4-Bromofluorobenzene

Concen: 50.002 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

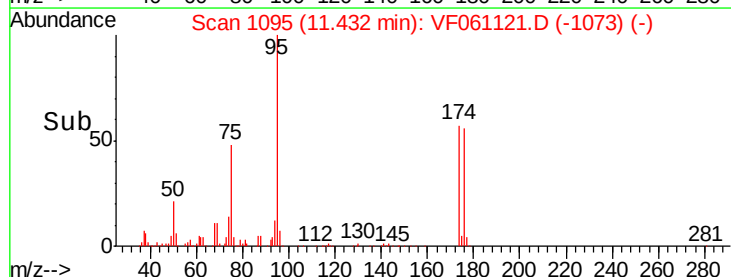
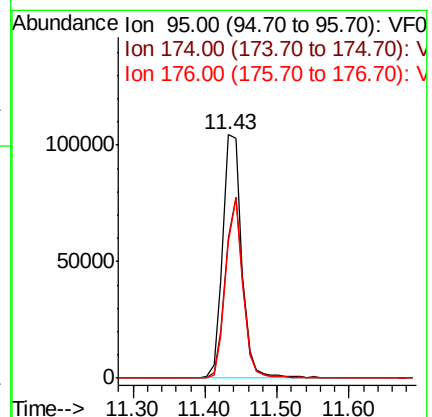
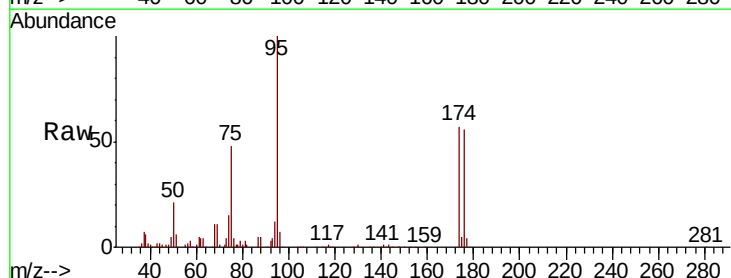
Tgt Ion: 95 Resp: 189150

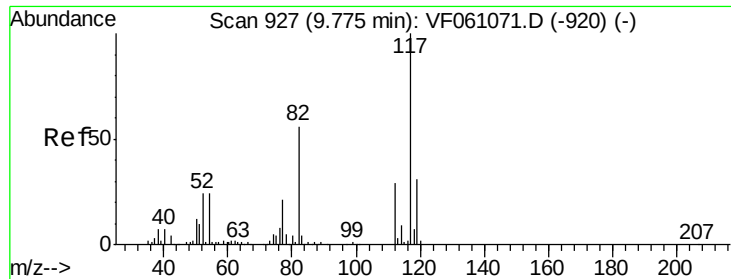
Ion Ratio Lower Upper

95 100

174 57.4 0.0 143.8

176 56.1 0.0 147.6





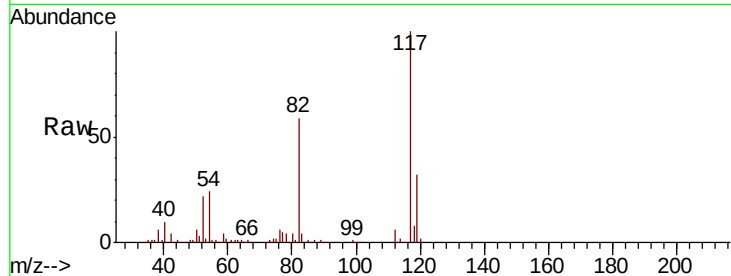
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

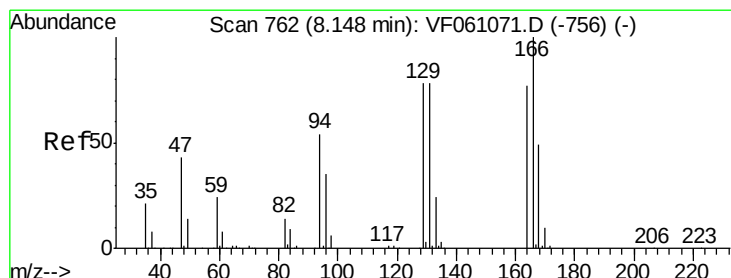
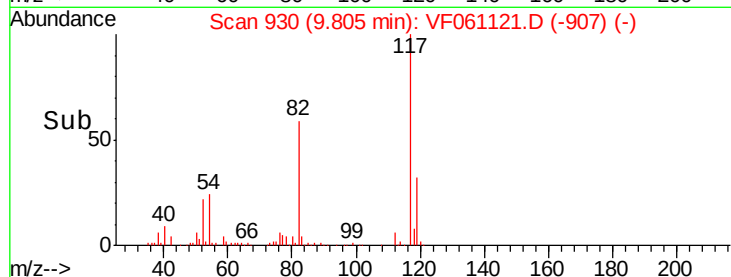
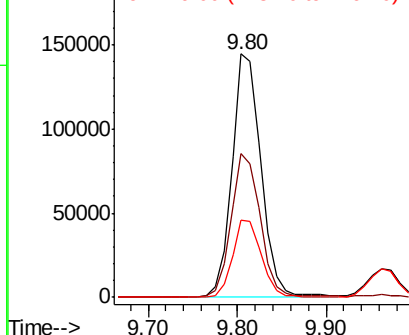
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	331215		
82	59.1	45.0	67.4	
119	31.6	24.8	37.2	

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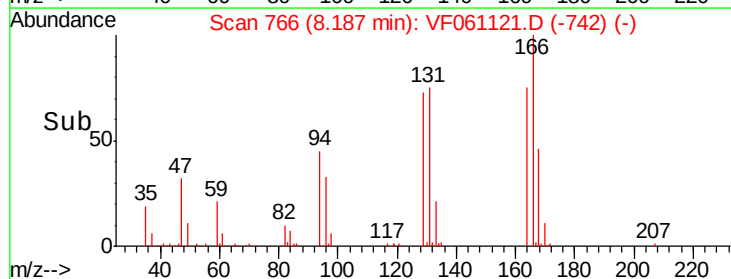
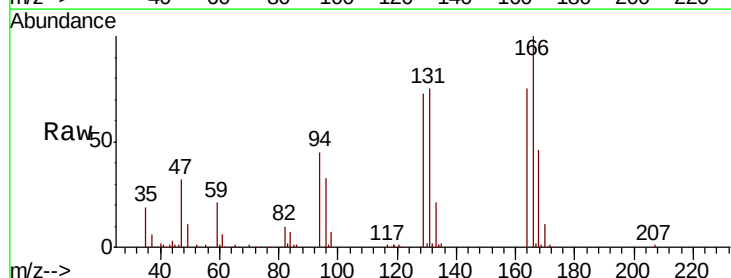
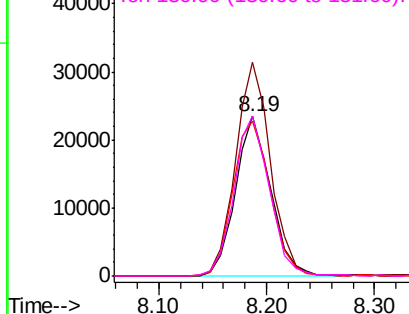
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

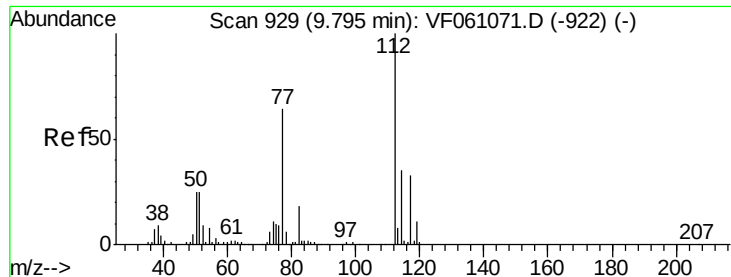


#64
Tetrachloroethene
Concen: 20.691 ug/l
RT: 8.19 min Scan# 766
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	52719		
166	134.0	104.0	156.0	
129	97.4	81.1	121.7	
131	100.3	81.2	121.8	

Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





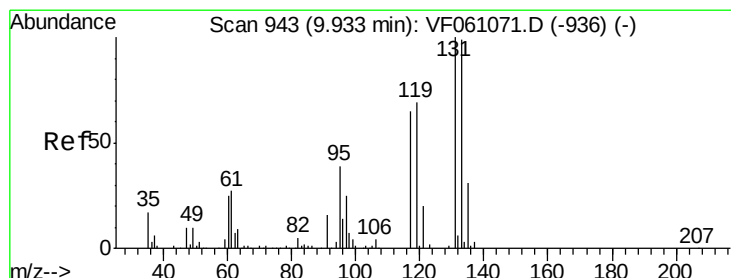
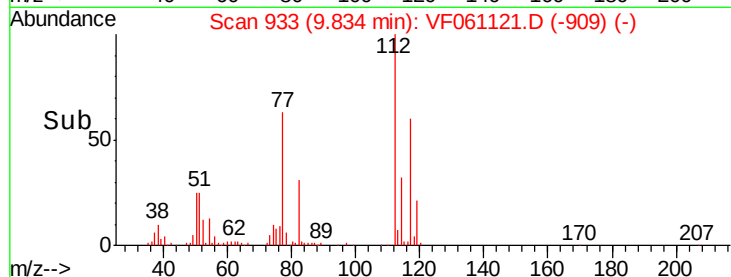
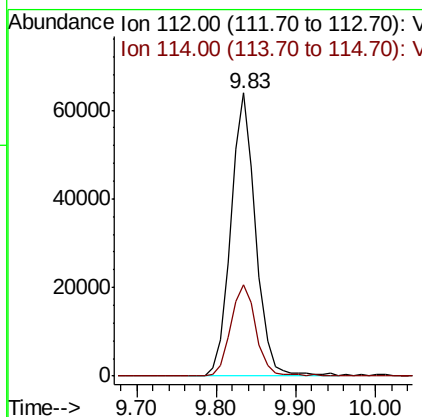
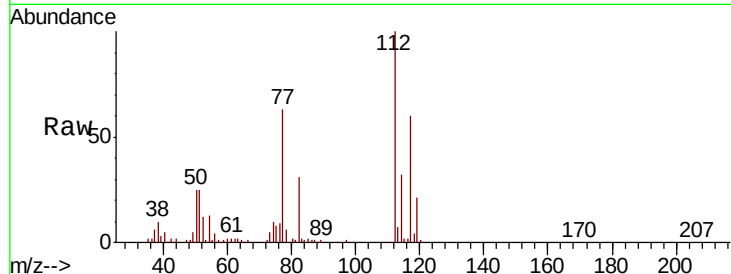
#65
Chlorobenzene
Concen: 20.350 ug/l
RT: 9.83 min Scan# 933
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion:112 Resp: 139244
Ion Ratio Lower Upper
112 100
114 32.2 27.8 41.6

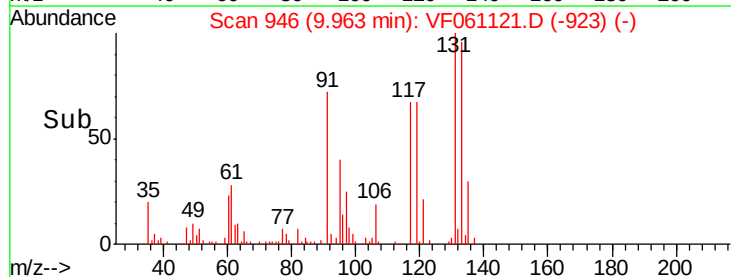
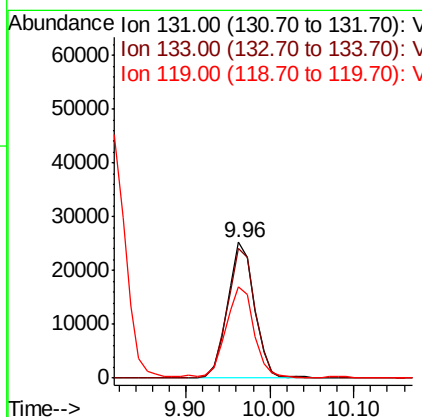
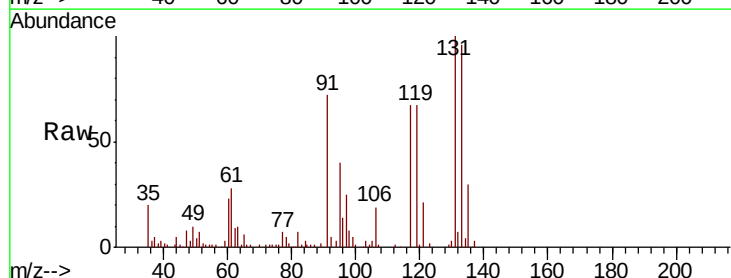
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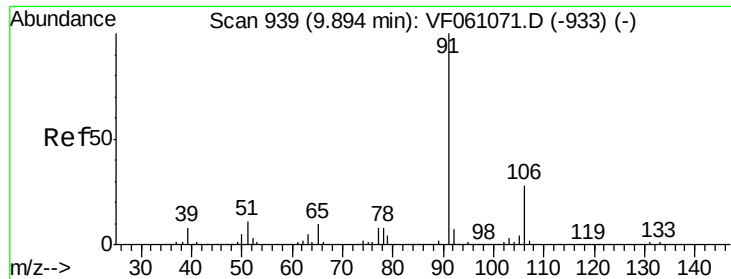
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.126 ug/l
RT: 9.96 min Scan# 946
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion:131 Resp: 56278
Ion Ratio Lower Upper
131 100
133 95.9 49.5 148.7
119 67.4 34.5 103.5





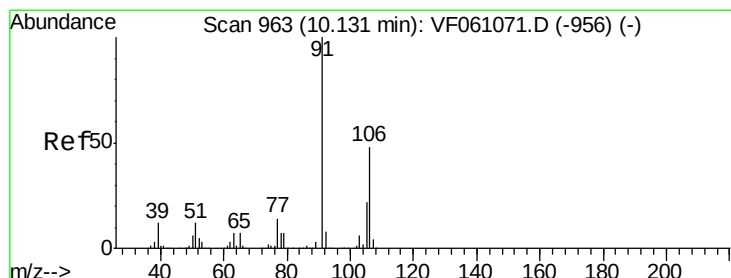
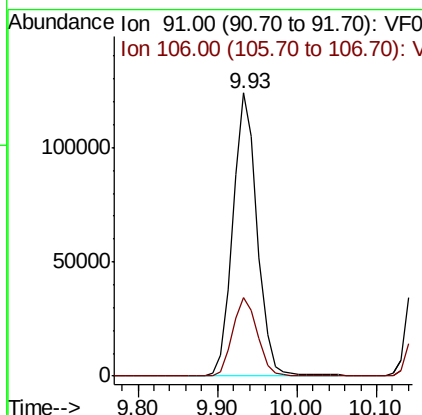
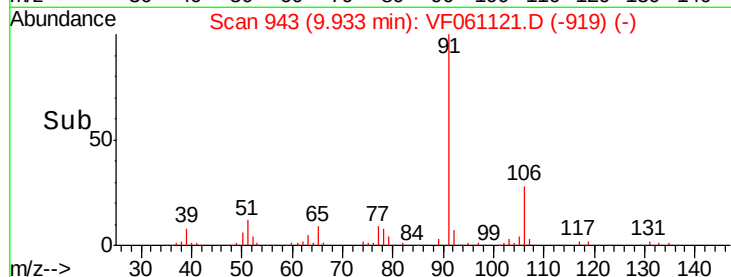
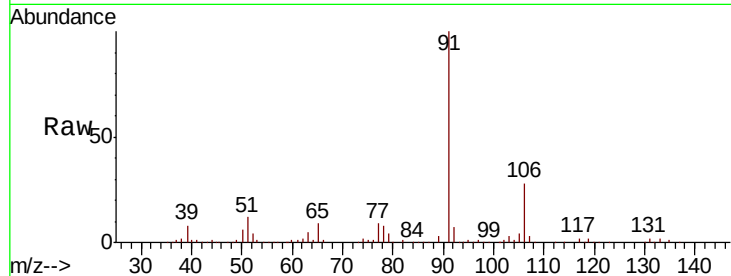
#67
Ethyl Benzene
Concen: 21.266 ug/l
RT: 9.93 min Scan# 943
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion: 91 Resp: 265101
Ion Ratio Lower Upper
91 100
106 27.9 22.5 33.7

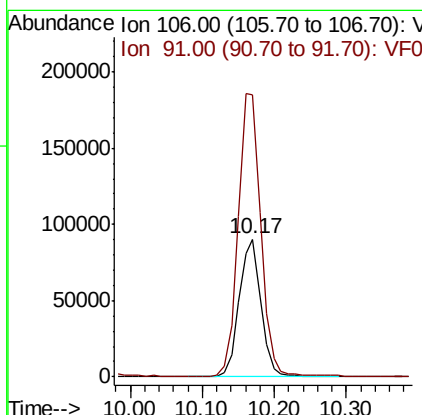
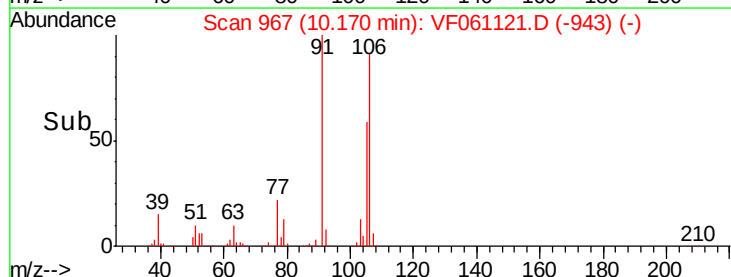
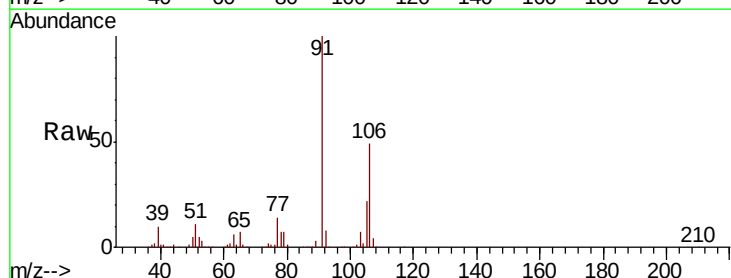
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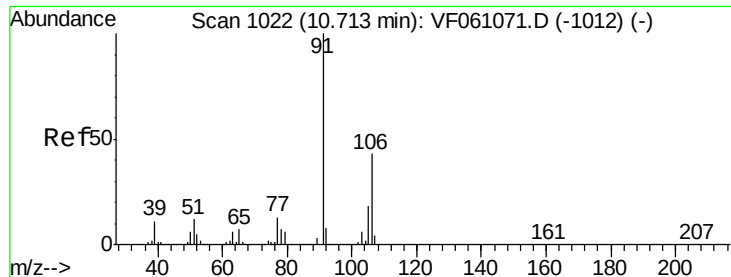
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#68
m/p-Xylenes
Concen: 43.856 ug/l
RT: 10.17 min Scan# 967
Delta R.T. 0.04 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion: 106 Resp: 192396
Ion Ratio Lower Upper
106 100
91 205.3 168.2 252.2





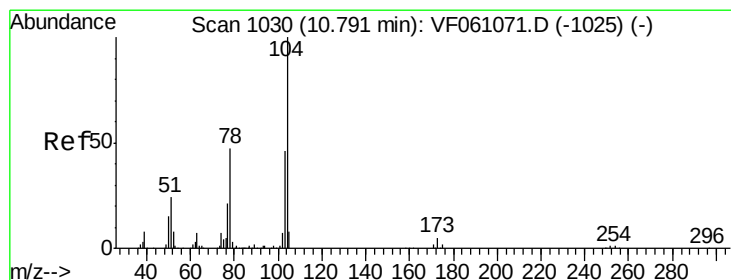
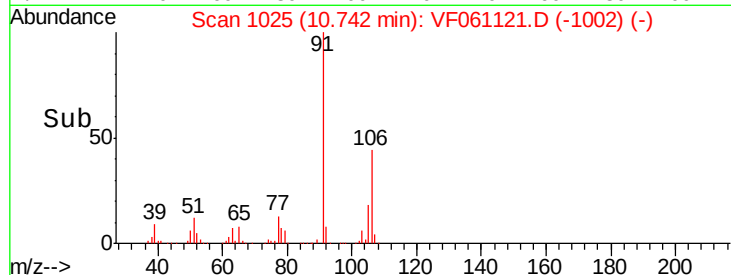
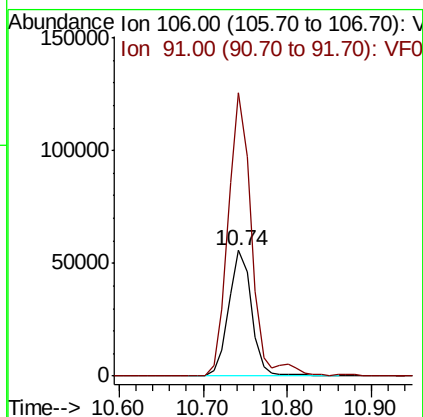
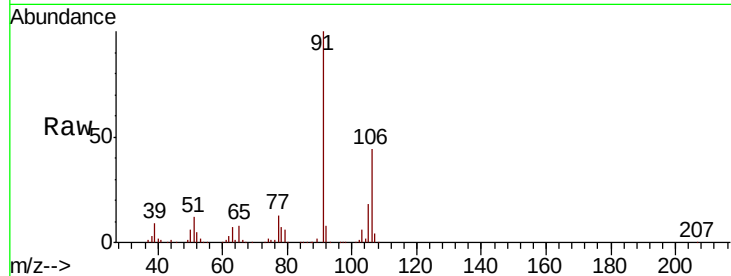
#69
o-Xylene
Concen: 21.778 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion:106 Resp: 105962
Ion Ratio Lower Upper
106 100
91 225.2 115.9 347.7

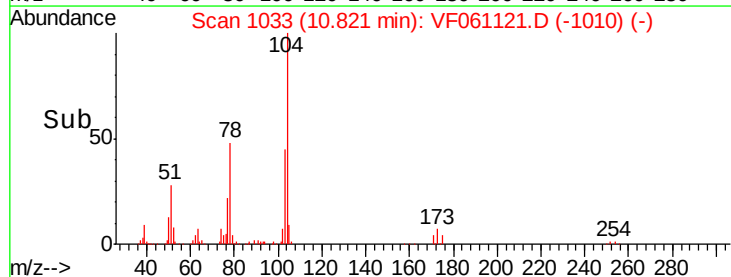
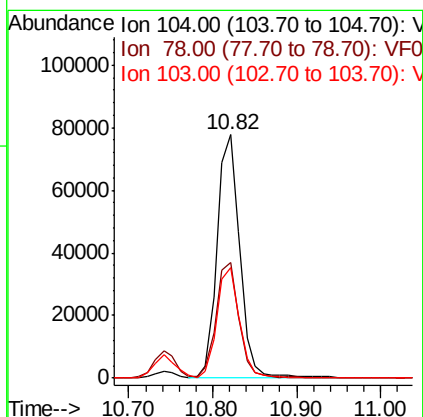
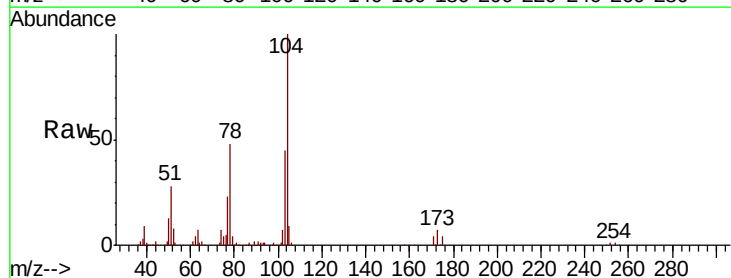
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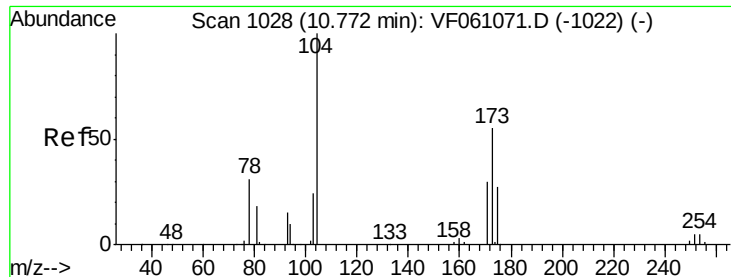
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#70
Styrene
Concen: 21.694 ug/l
RT: 10.82 min Scan# 1033
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion:104 Resp: 145012
Ion Ratio Lower Upper
104 100
78 47.6 38.4 57.6
103 45.3 37.0 55.6





#71

Bromoform

Concen: 22.538 ug/l

RT: 10.80 min Scan# 1031

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

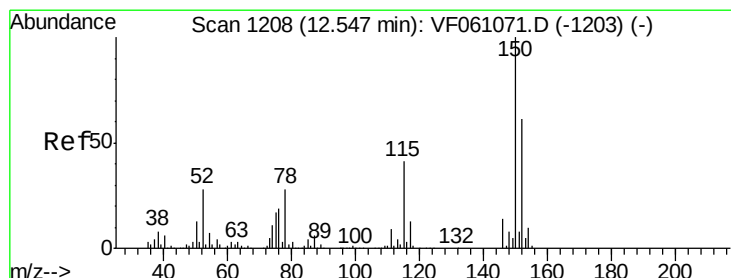
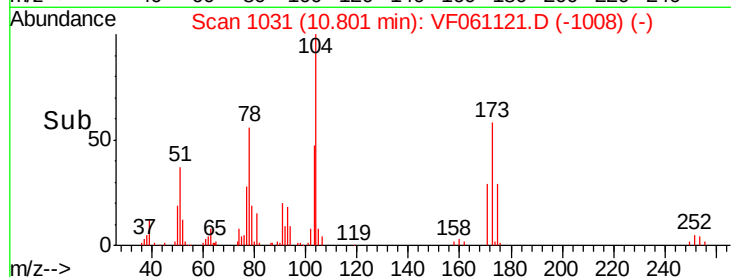
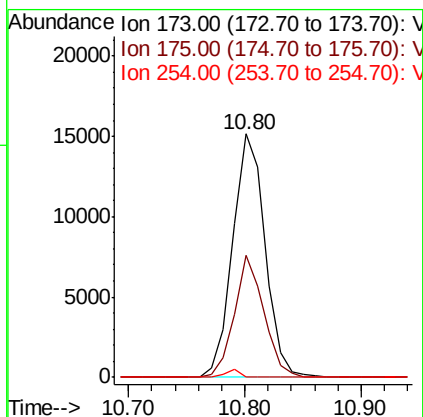
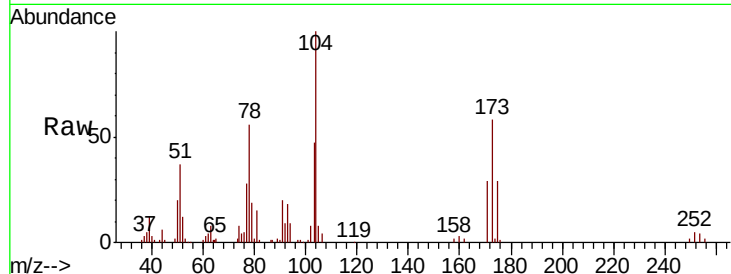
ClientSampleId :

VF1221SBS01

Tgt Ion:	173	Resp:	29156
Ion Ratio	Lower	Upper	
173	100		
175	50.0	24.8	74.4
254	0.0	0.0	0.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

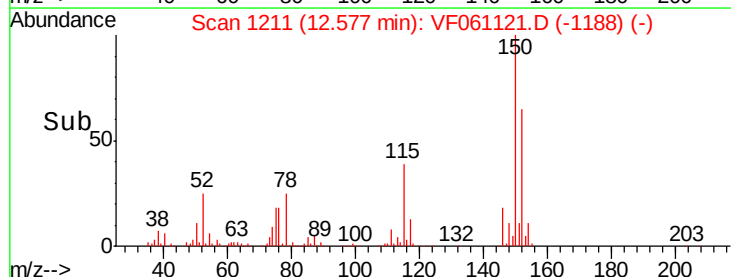
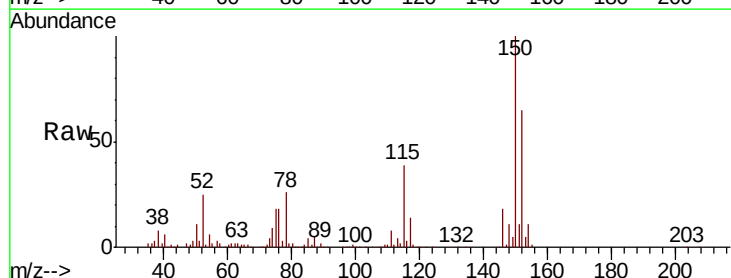
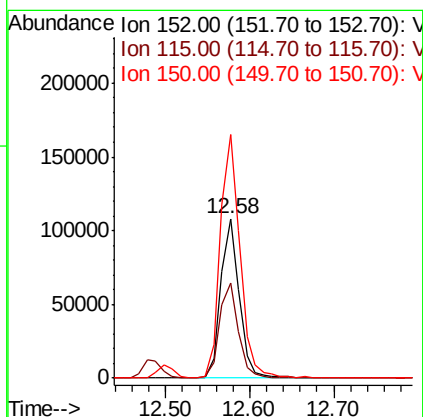
RT: 12.58 min Scan# 1211

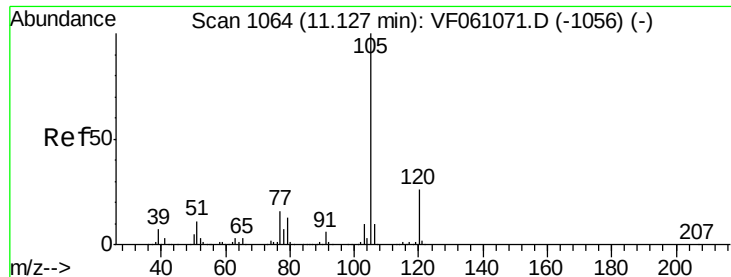
Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Tgt Ion:	152	Resp:	166064
Ion Ratio	Lower	Upper	
152	100		
115	59.7	33.3	99.9
150	152.7	0.0	328.2





#73

Isopropylbenzene

Concen: 21.457 ug/l

RT: 11.15 min Scan# 1066

Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 105 Resp: 307060

Ion Ratio Lower Upper

105 100

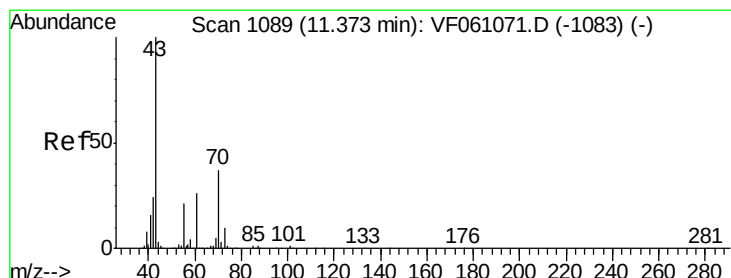
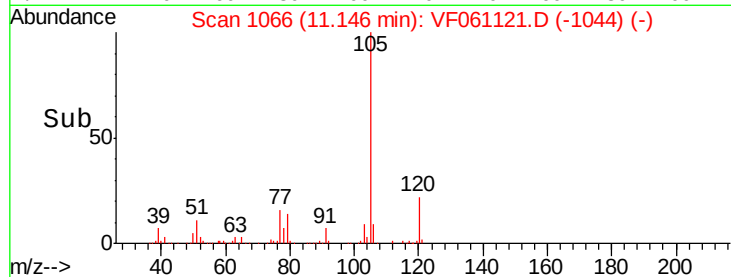
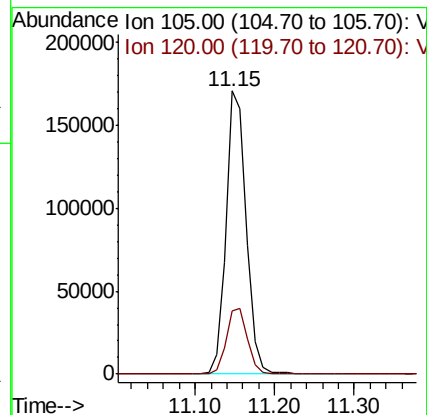
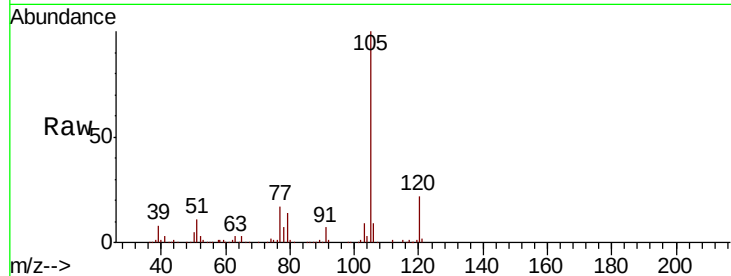
120 22.2 13.0 39.0

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#74

N-ethyl acetate

Concen: 26.627 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Tgt Ion: 43 Resp: 84599

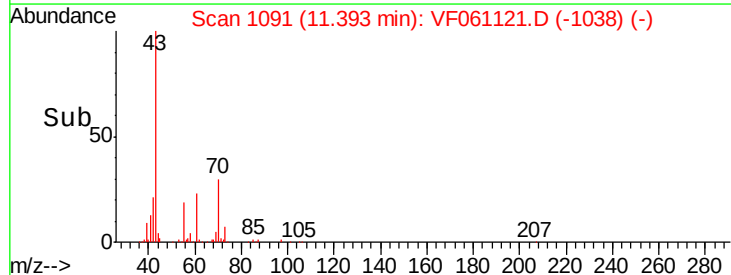
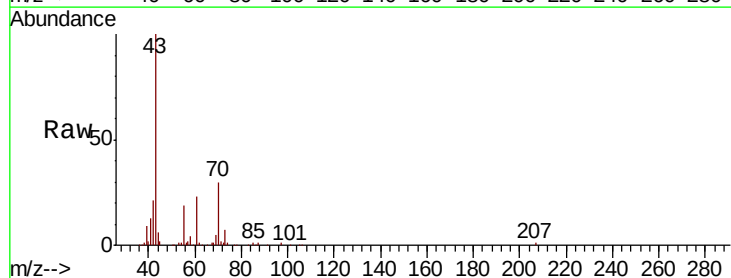
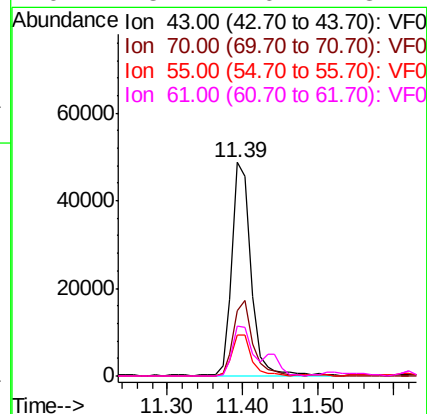
Ion Ratio Lower Upper

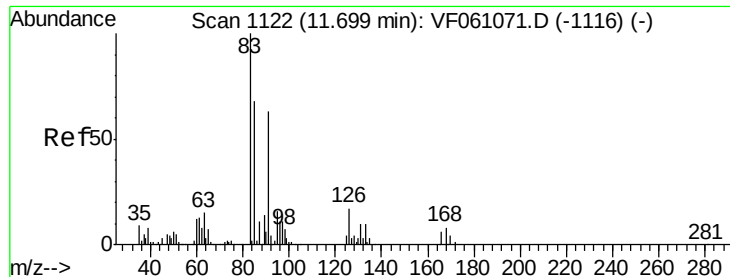
43 100

70 30.3 29.2 43.8

55 19.1 16.5 24.7

61 23.2 20.7 31.1





#75

1,1,2,2-Tetrachloroethane

Concen: 23.567 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

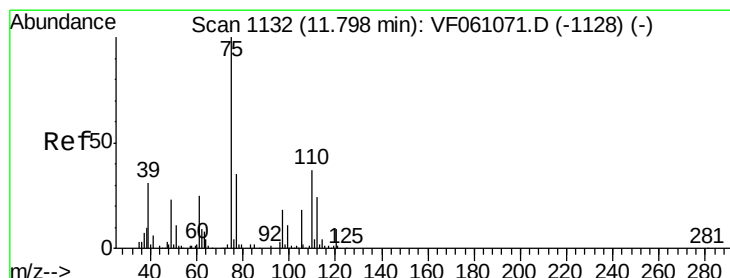
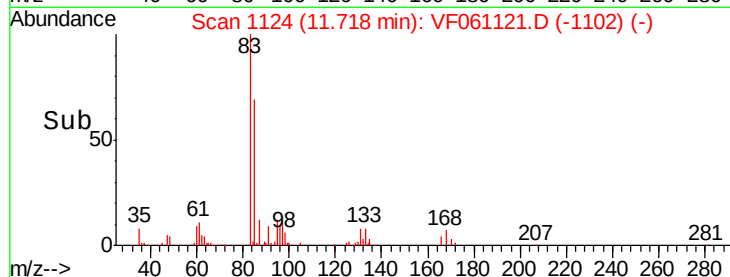
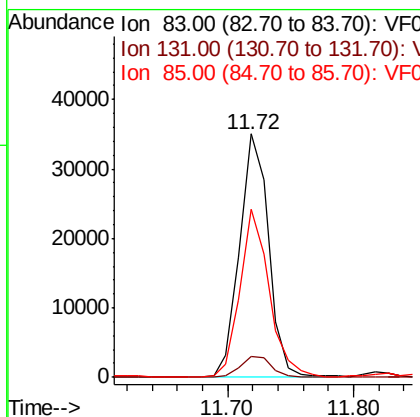
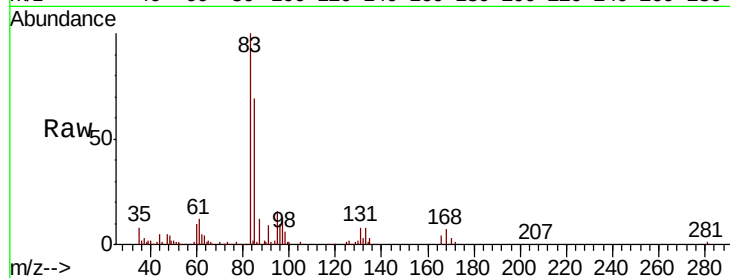
ClientSampleId :

VF1221SBS01

Tgt Ion:	83	Resp:	55974
Ion Ratio	Lower	Upper	
83	100		
131	8.5	4.8	14.3
85	69.2	33.9	101.6

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#76

1,2,3-Trichloropropane

Concen: 22.061 ug/l

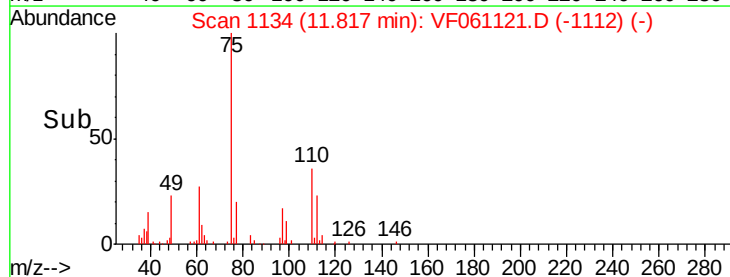
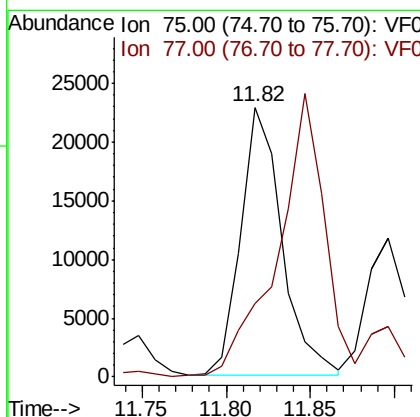
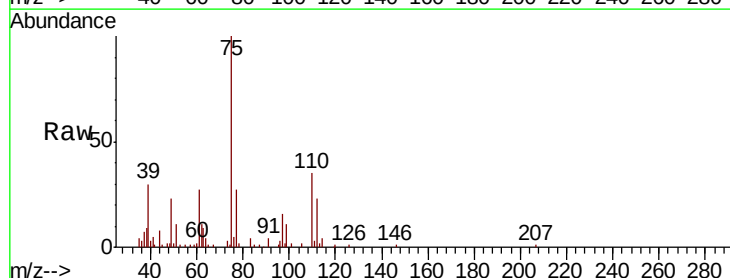
RT: 11.82 min Scan# 1134

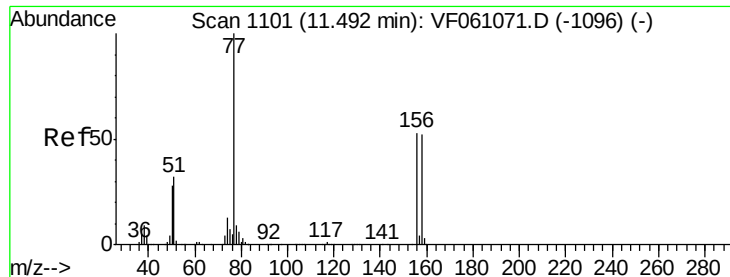
Delta R.T. 0.02 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Tgt Ion:	75	Resp:	38993
Ion Ratio	Lower	Upper	
75	100		
77	27.1	17.6	52.9





#77

Bromobenzene

Concen: 21.449 ug/l

RT: 11.52 min Scan# 1104

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

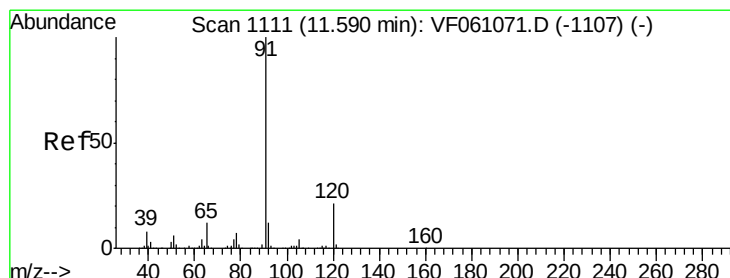
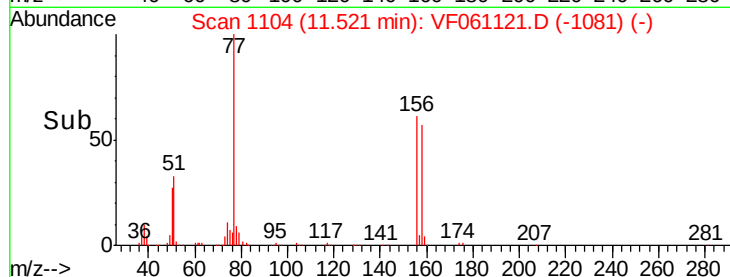
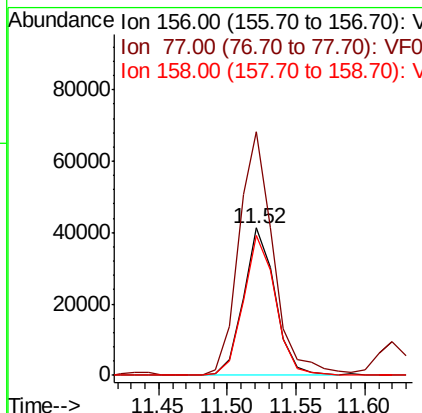
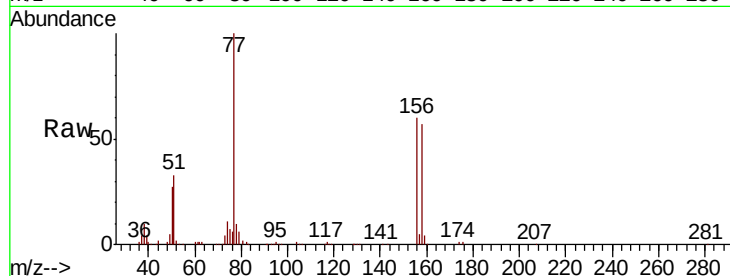
ClientSampleId :

VF1221SBS01

Tgt Ion:	156	Resp:	66075
Ion Ratio	Lower	Upper	
156	100		
77	165.4	93.8	281.4
158	94.8	48.9	146.8

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#78

n-propylbenzene

Concen: 19.125 ug/l

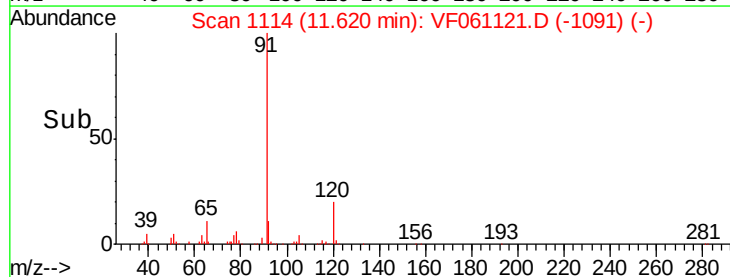
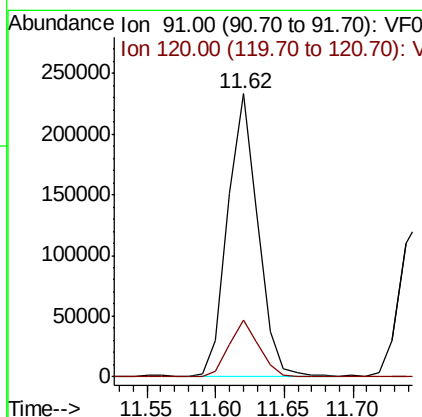
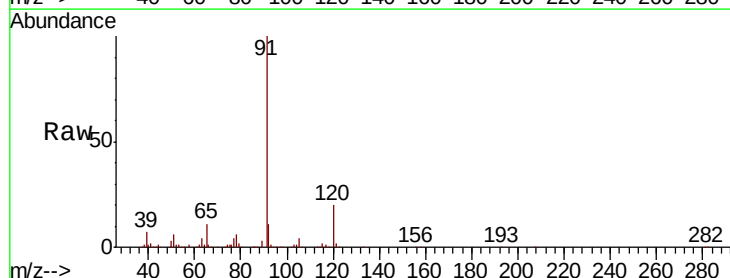
RT: 11.62 min Scan# 1114

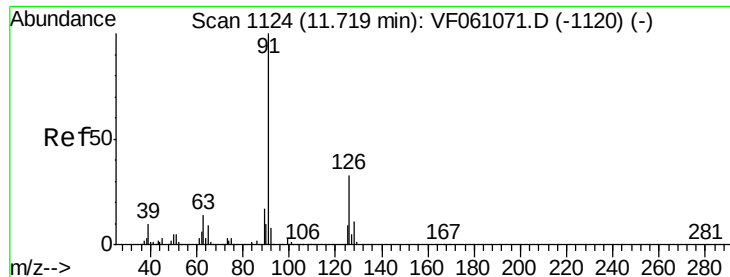
Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Tgt Ion:	91	Resp:	356657
Ion Ratio	Lower	Upper	
91	100		
120	20.0	10.4	31.2





#79

2-Chlorotoluene

Concen: 20.969 ug/l

RT: 11.75 min Scan# 1127

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 91 Resp: 205857

Ion Ratio Lower Upper

91 100

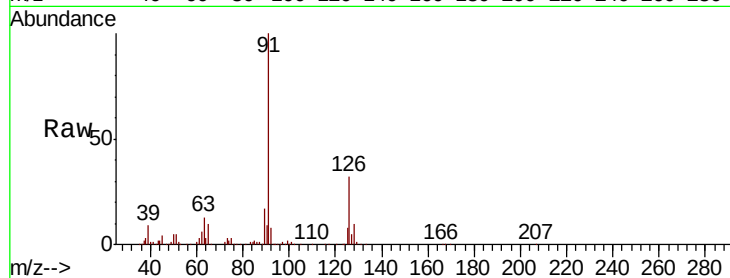
126 32.3 16.4 49.1

Manual Integrations

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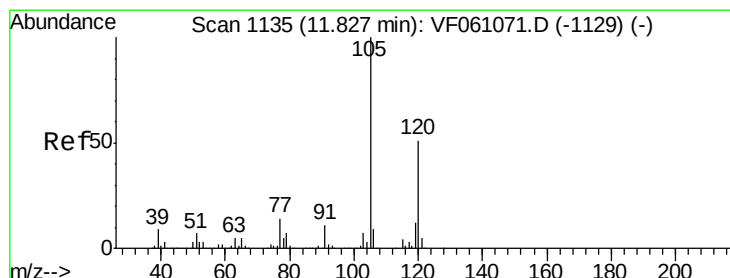
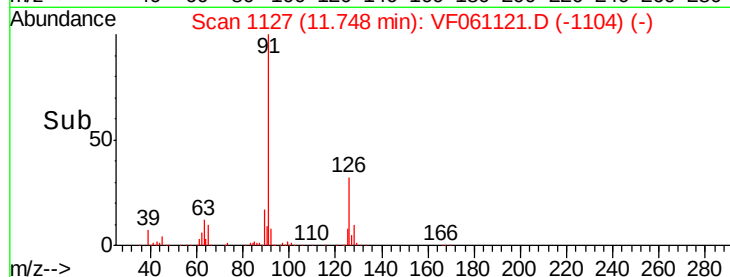
Abundance Ion 91.00 (90.70 to 91.70): VF061121.D (-1124) (-)

Ion 126.00 (125.70 to 126.70): VF061121.D (-1124) (-)

11.75

11.70 11.80

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 21.133 ug/l

RT: 11.85 min Scan# 1137

Delta R.T. 0.02 min

Lab File: VF061121.D

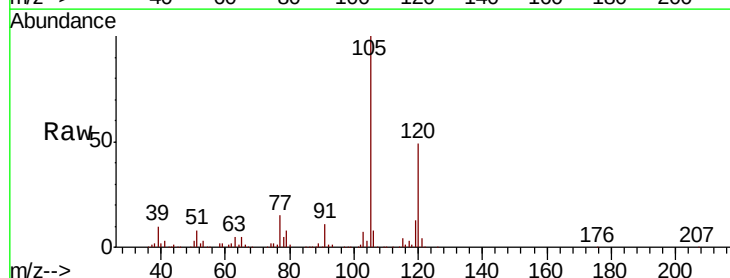
Acq: 21 Dec 2018 12:53

Tgt Ion: 105 Resp: 249022

Ion Ratio Lower Upper

105 100

120 49.1 25.4 76.4



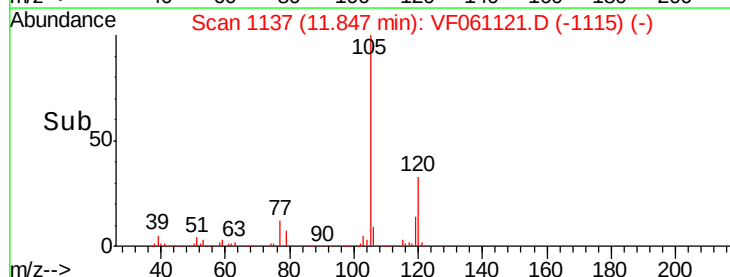
Abundance Ion 105.00 (104.70 to 105.70): VF061121.D (-1135) (-)

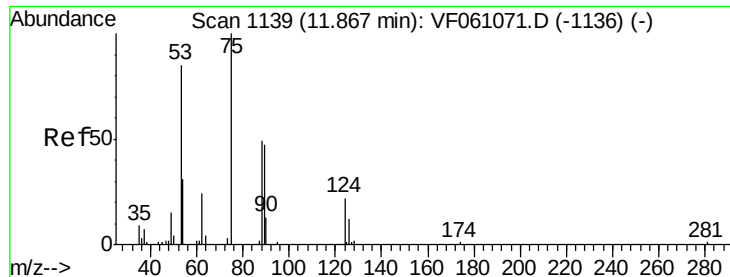
Ion 120.00 (119.70 to 120.70): VF061121.D (-1135) (-)

11.85

11.80 11.90 12.00

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 26.615 ug/l m

RT: 11.90 min Scan# 1142

Delta R.T. 0.03 min

Lab File: VF061121.D

Acq: 21 Dec 2018 12:53

Instrument :

MSVOA_F

ClientSampleId :

VF1221SBS01

Tgt Ion: 75 Resp: 20215
Ion Ratio Lower Upper

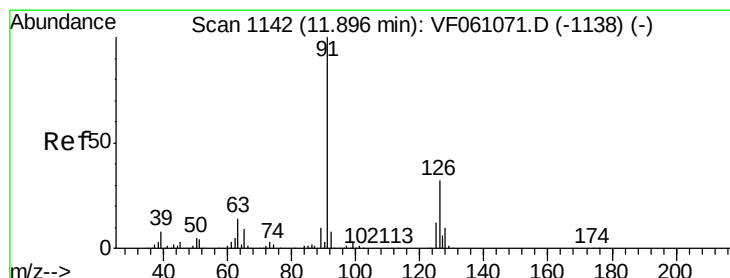
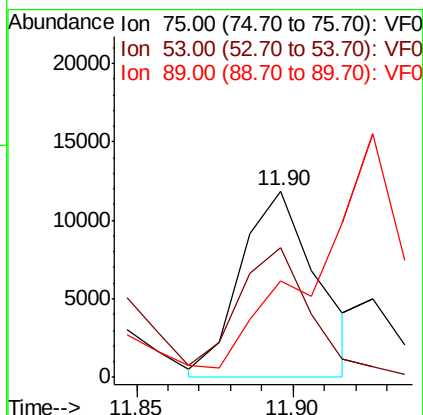
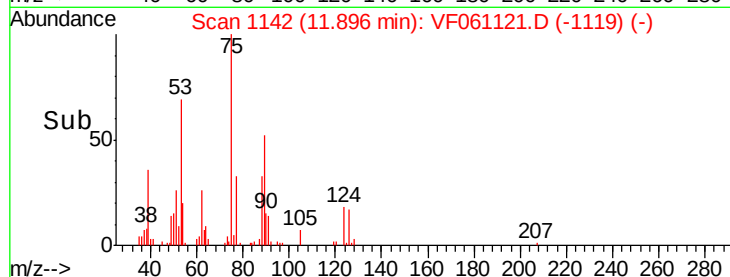
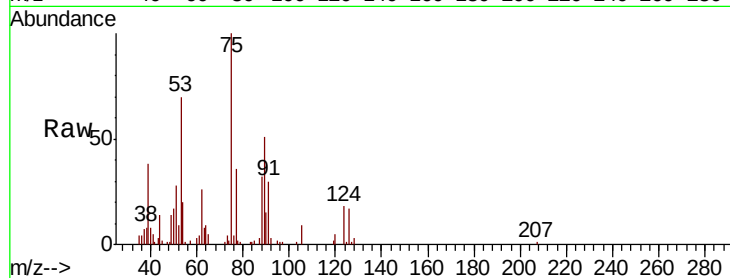
75 100

53 69.7 74.1 111.1#

89 51.5 42.6 64.0

Manual Integrations
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#82

4-Chlorotoluene

Concen: 20.284 ug/l

RT: 11.93 min Scan# 1145

Delta R.T. 0.03 min

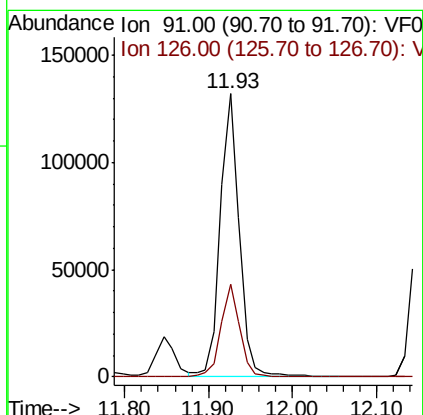
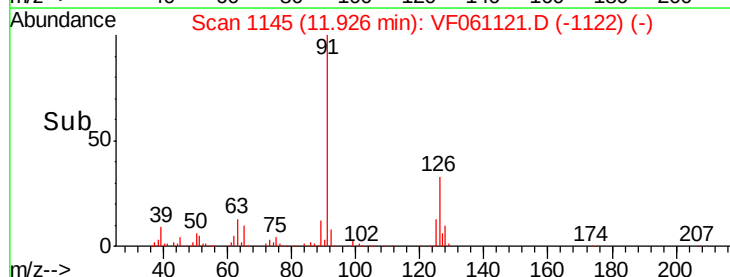
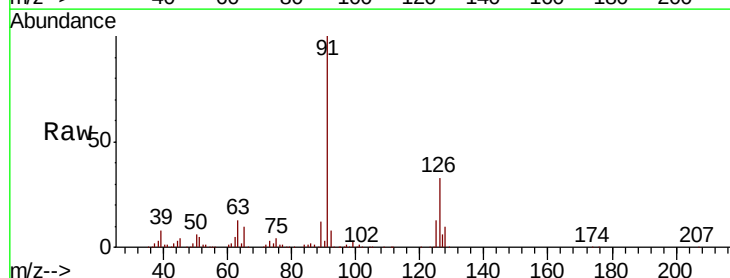
Lab File: VF061121.D

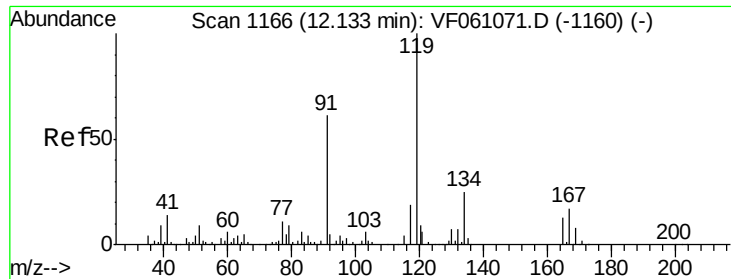
Acq: 21 Dec 2018 12:53

Tgt Ion: 91 Resp: 205992
Ion Ratio Lower Upper

91 100

126 32.7 16.0 47.9





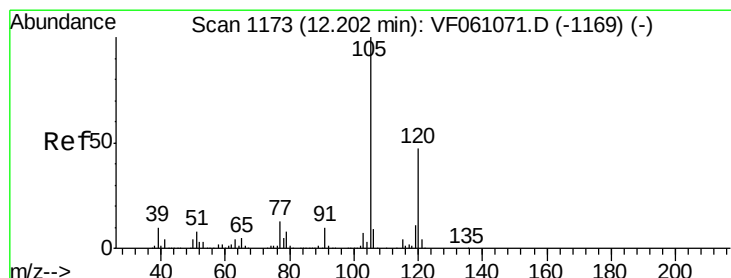
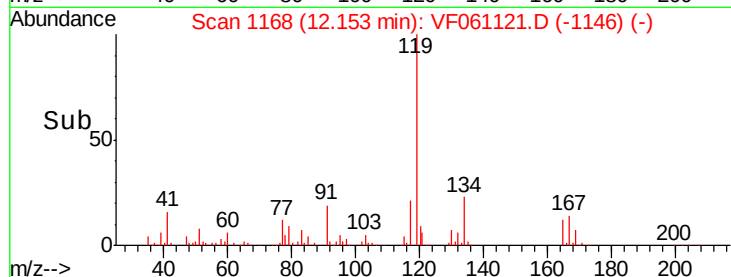
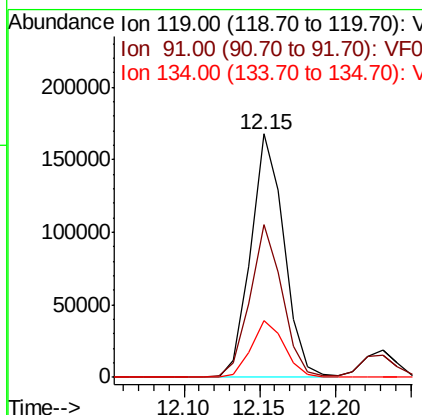
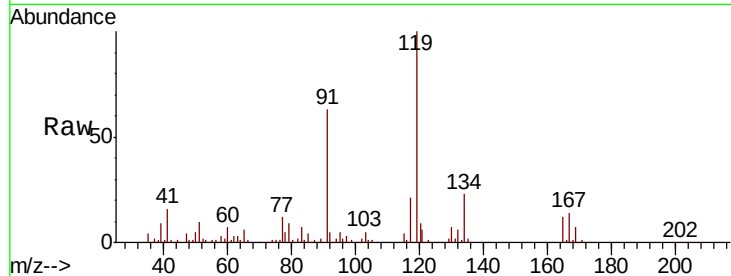
#83
 tert-Butylbenzene
 Concen: 21.249 ug/l
 RT: 12.15 min Scan# 1168
 Delta R.T. 0.02 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	257661		
91	62.8	30.5	91.5	
134	23.3	12.4	37.4	

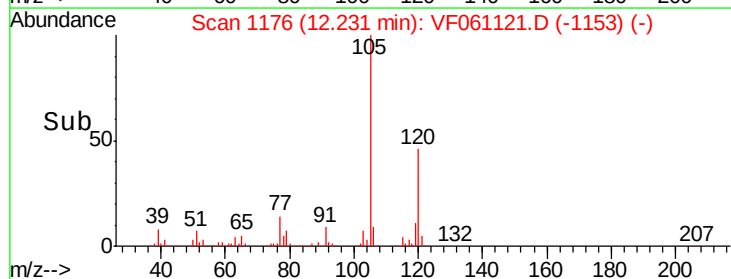
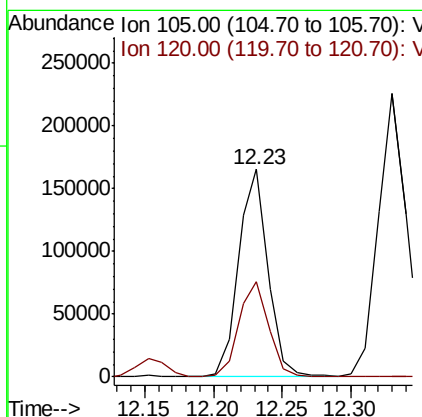
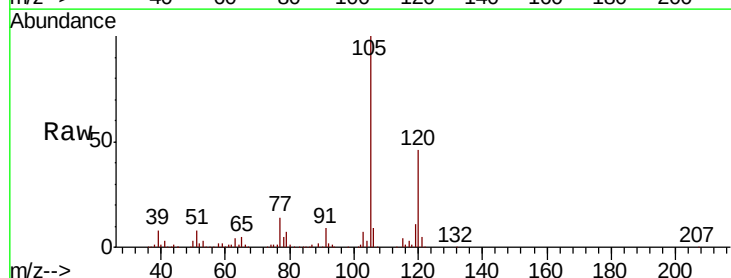
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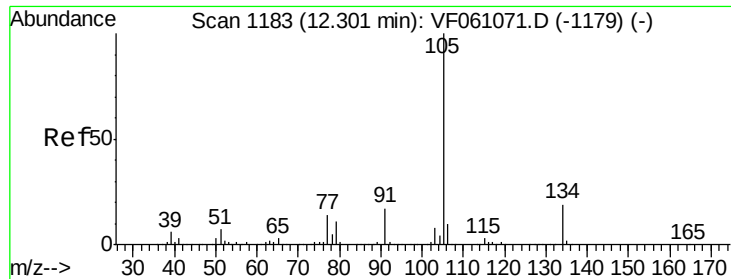
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#84
 1,2,4-Trimethylbenzene
 Concen: 20.842 ug/l
 RT: 12.23 min Scan# 1176
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	244909		
120	46.1	23.6	71.0	





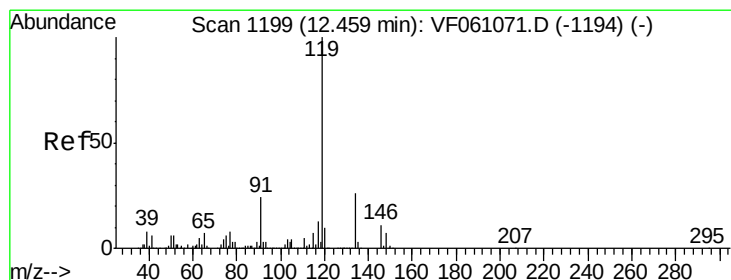
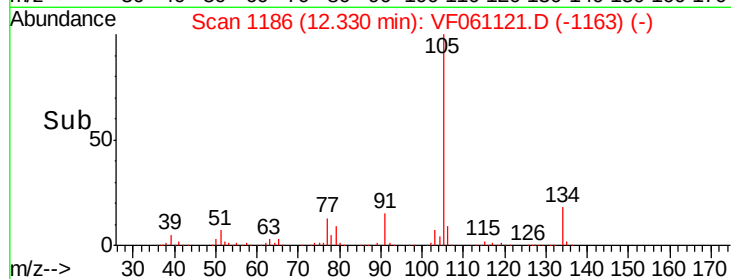
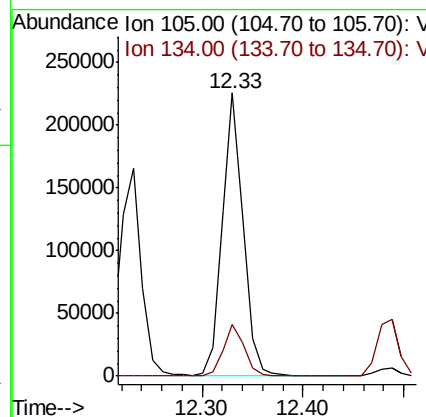
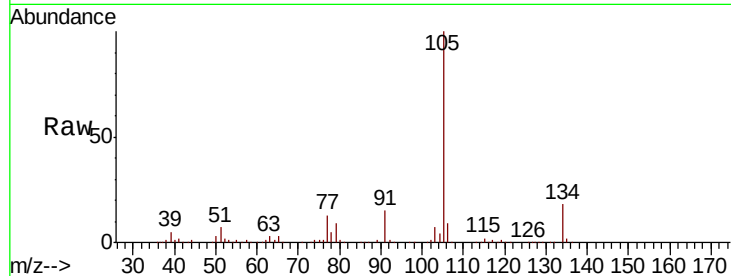
#85
 sec-Butylbenzene
 Concen: 20.572 ug/l
 RT: 12.33 min Scan# 1186
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	325534		
134	18.4	9.4	28.2	

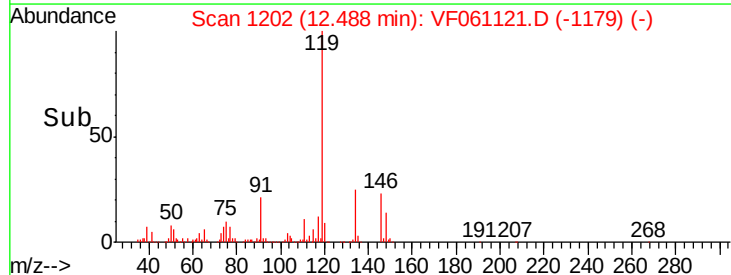
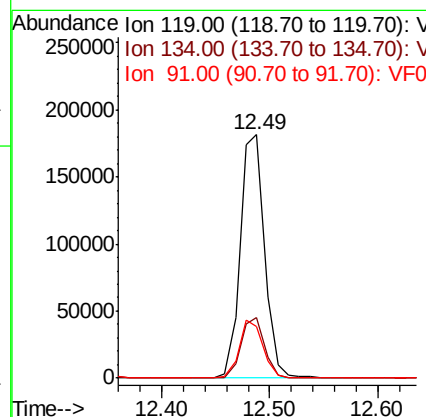
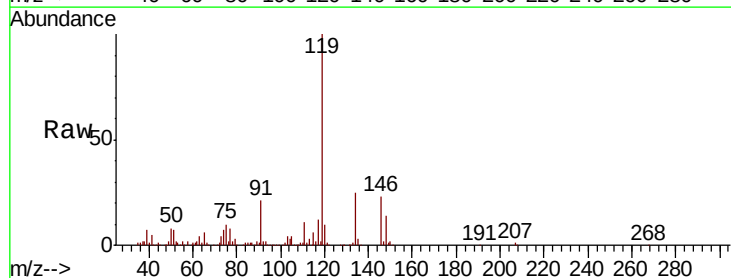
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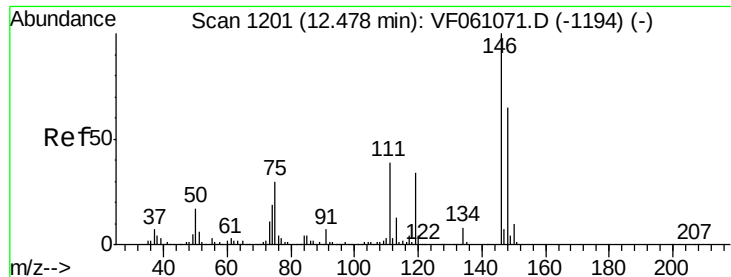
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#86
 p-Isopropyltoluene
 Concen: 21.636 ug/l
 RT: 12.49 min Scan# 1202
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	284188		
134	24.7	12.8	38.4	
91	21.3	12.2	36.6	





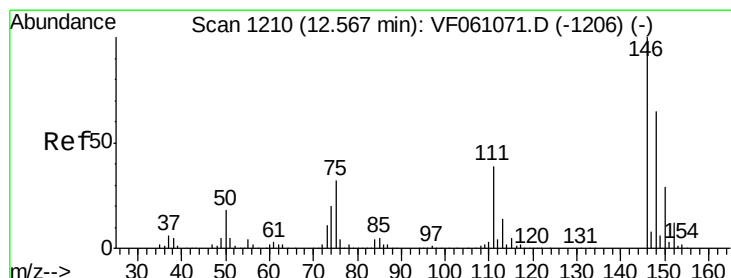
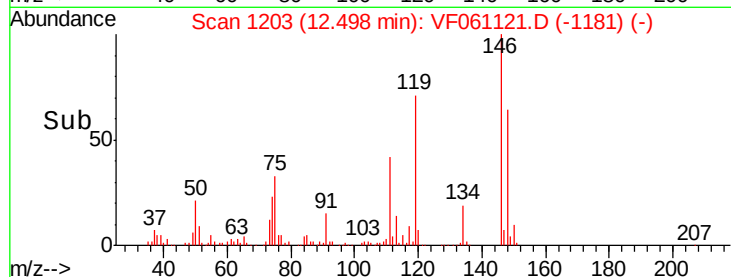
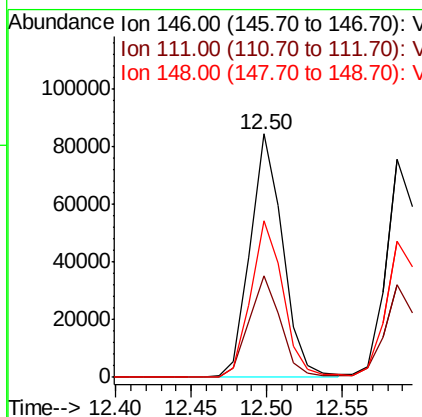
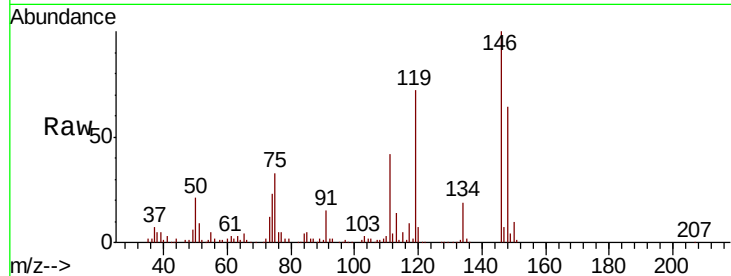
#87
 1,3-Dichlorobenzene
 Concen: 22.354 ug/l
 RT: 12.50 min Scan# 1203
 Delta R.T. 0.02 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	19.3	57.9
148	64.3	32.4	97.2

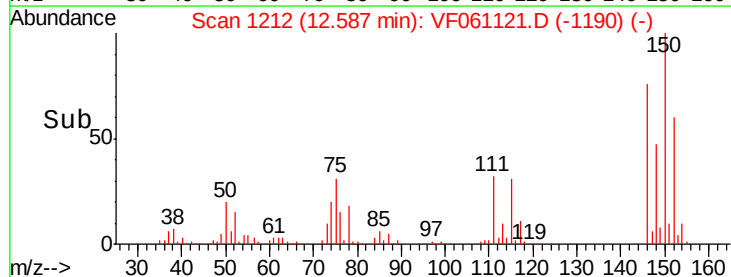
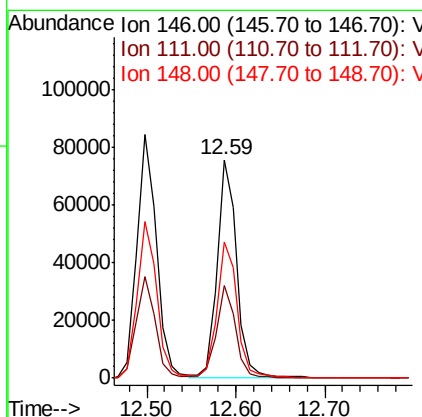
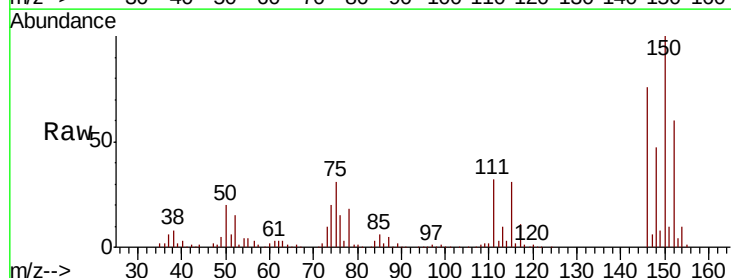
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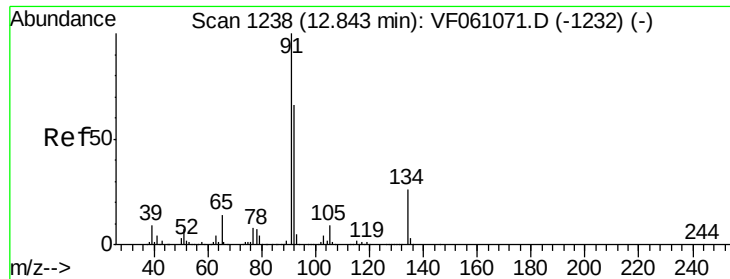
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#88
 1,4-Dichlorobenzene
 Concen: 20.548 ug/l
 RT: 12.59 min Scan# 1212
 Delta R.T. 0.02 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	19.4	58.4
148	62.2	32.4	97.0





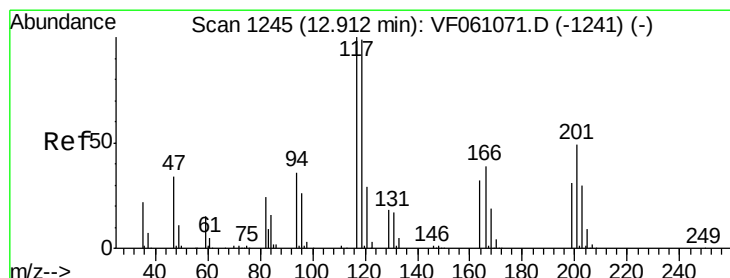
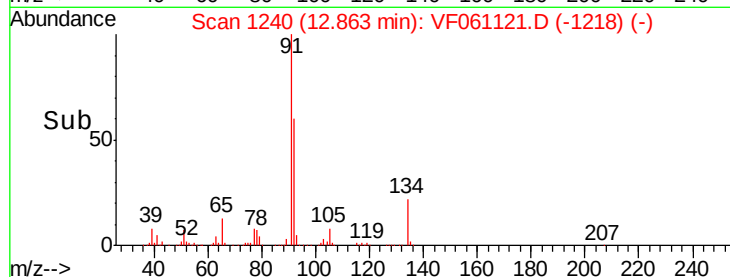
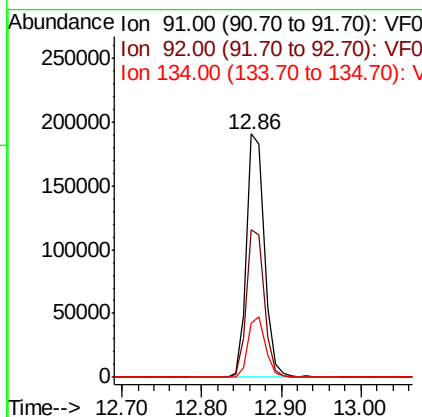
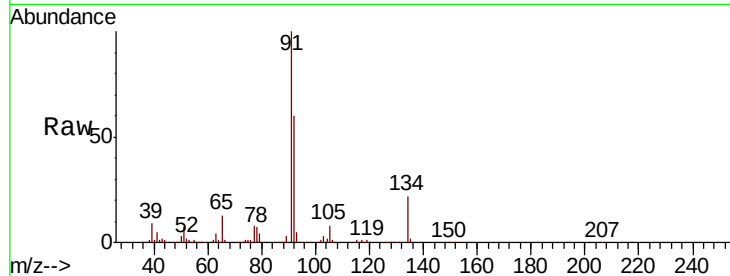
#89
n-Butylbenzene
Concen: 19.500 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. 0.02 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	294039		
92	60.5	32.8	98.4	
134	22.2	13.2	39.5	

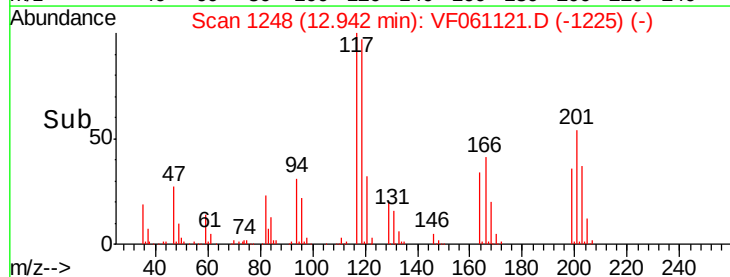
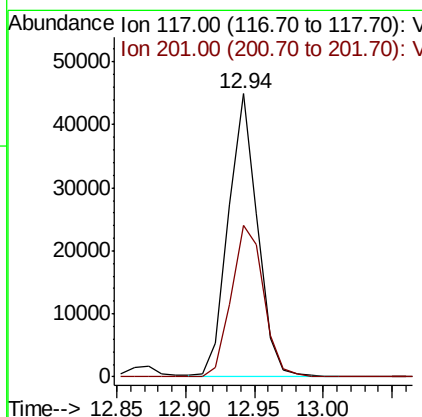
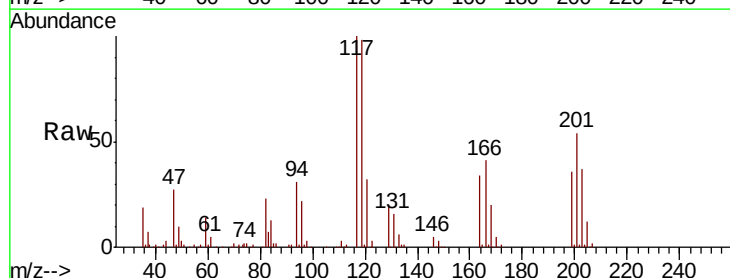
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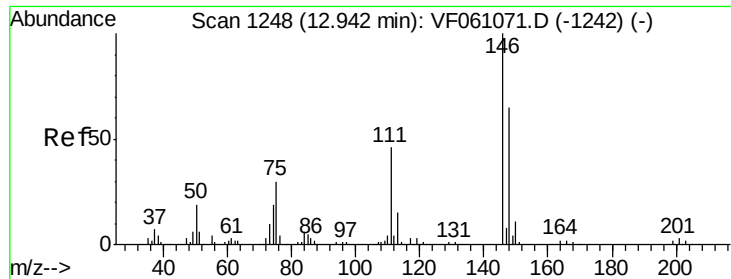
MMDadoda
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#90
Hexachloroethane
Concen: 20.401 ug/l
RT: 12.94 min Scan# 1248
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	66203		
201	53.5	24.9	74.8	





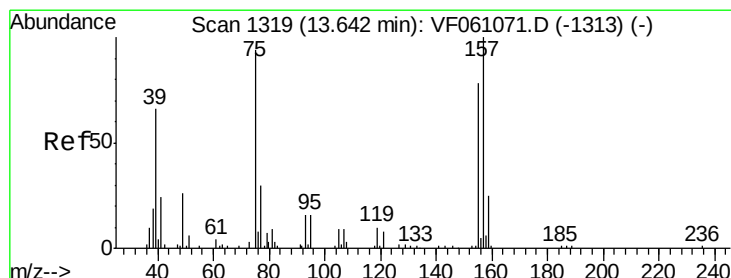
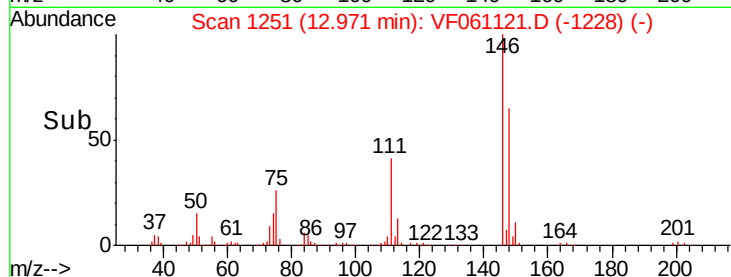
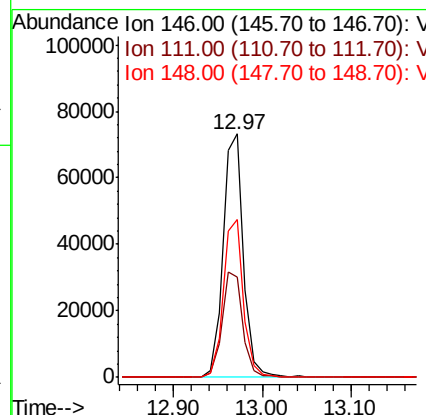
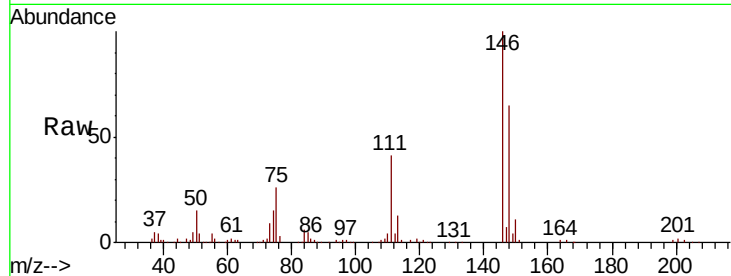
#91
 1,2-Dichlorobenzene
 Concen: 21.332 ug/l
 RT: 12.97 min Scan# 1251
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	117483		
111	41.0	23.2	69.5	
148	64.7	32.4	97.0	

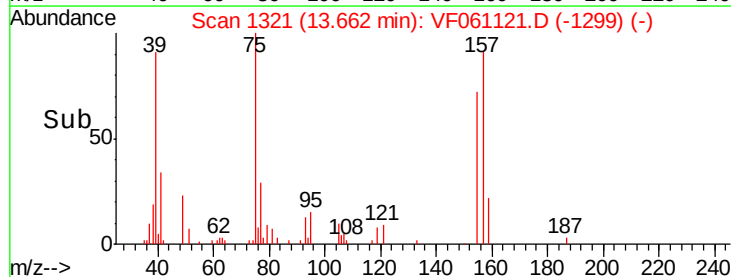
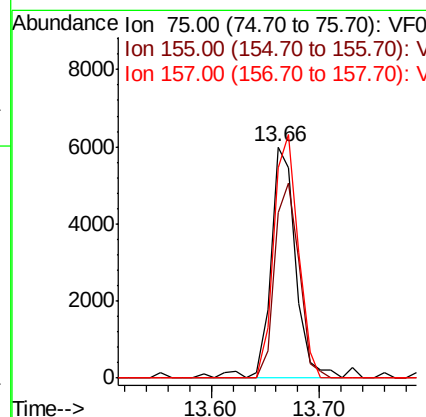
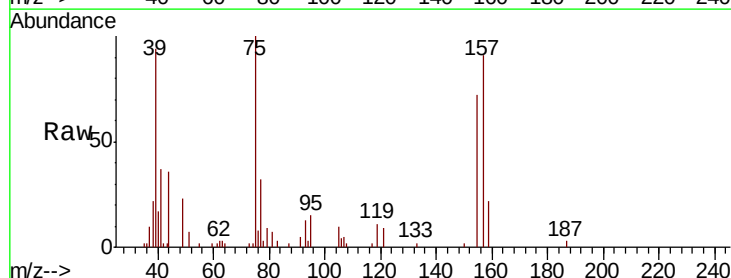
Manual Integrations
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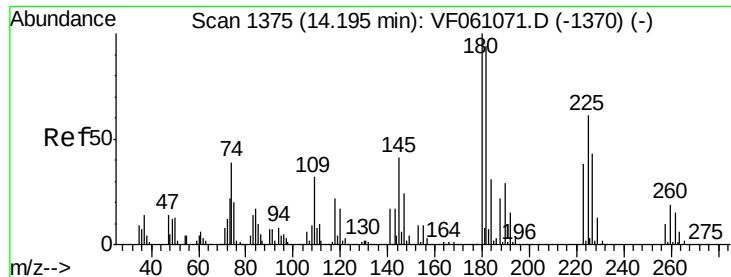
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.524 ug/l
 RT: 13.66 min Scan# 1321
 Delta R.T. 0.02 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	9817		
155	71.5	41.5	124.5	
157	91.0	53.2	159.6	





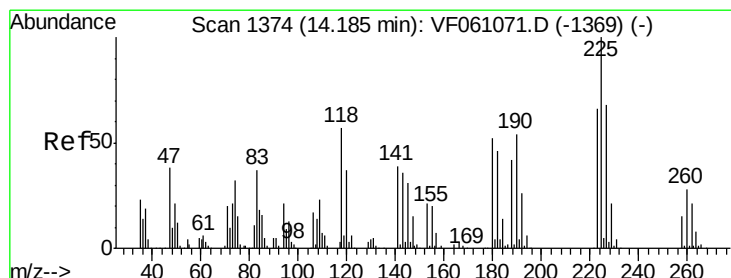
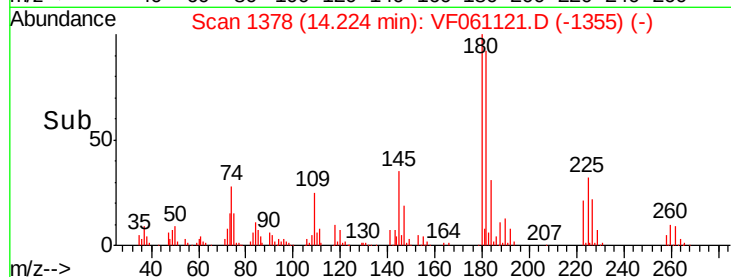
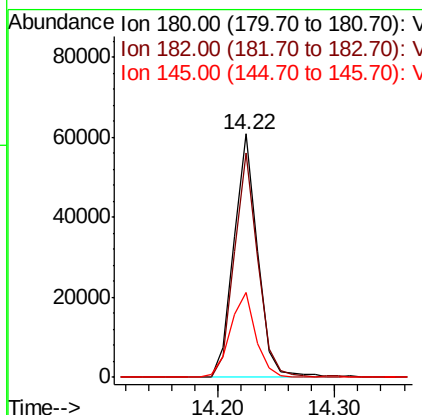
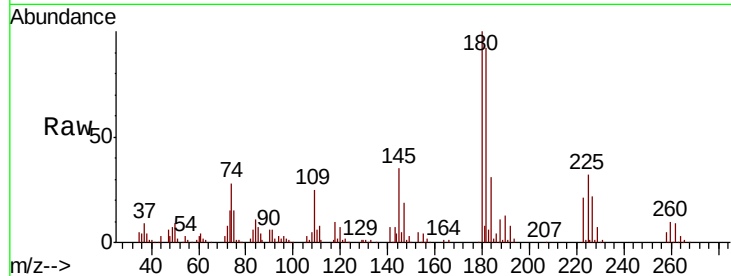
#93
 1,2,4-Trichlorobenzene
 Concen: 22.082 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Instrument :
 MSVOA_F
 ClientSampleId :
 VF1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	86246		
182	91.9	46.9	140.6	
145	34.9	20.5	61.6	

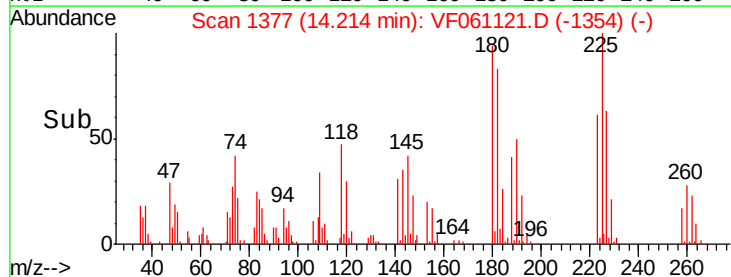
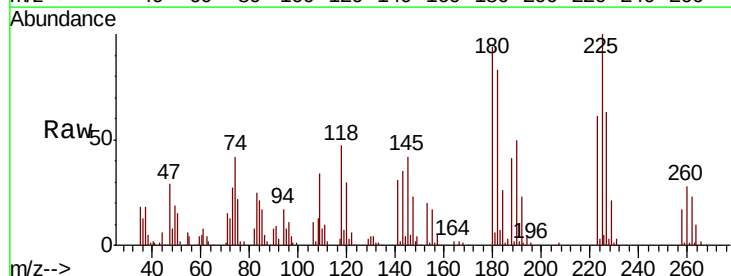
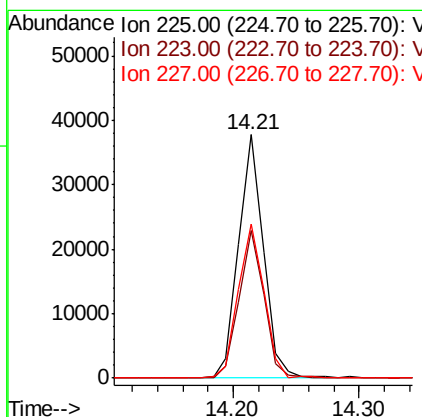
Manual Integrations
 APPROVED

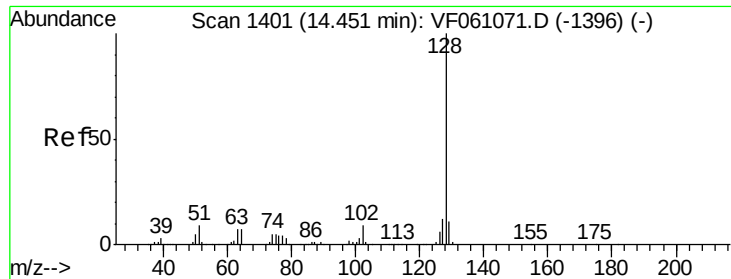
MMDadoda
 12/26/2018 10:51:14 AM



#94
 Hexachlorobutadiene
 Concen: 20.639 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.03 min
 Lab File: VF061121.D
 Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	51341		
223	60.6	32.8	98.3	
227	63.5	34.0	101.8	





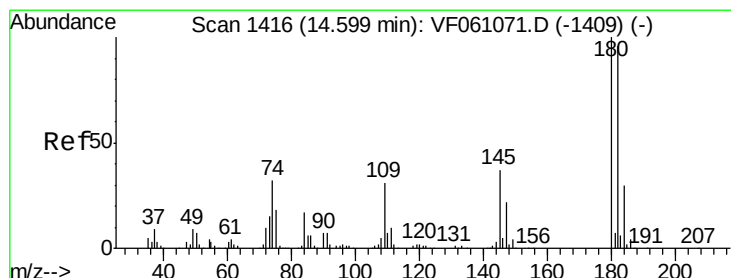
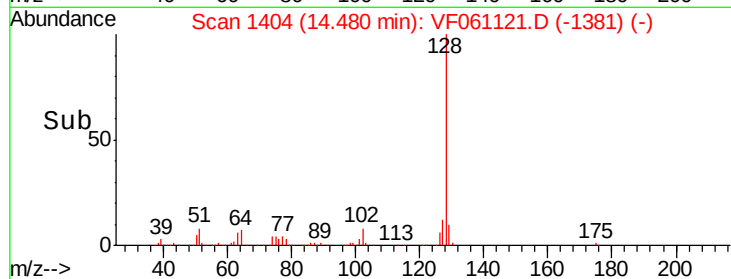
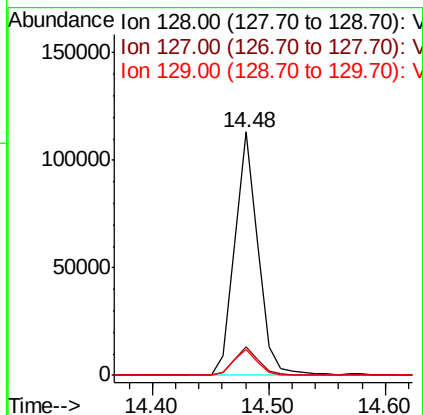
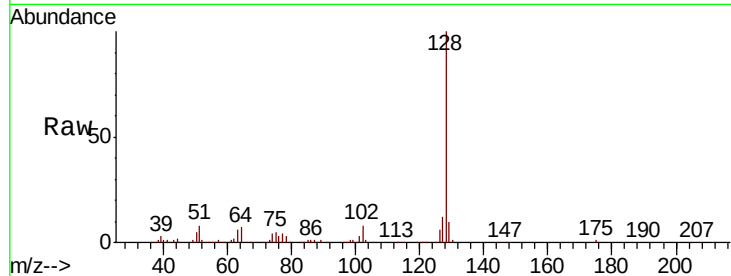
#95
Naphthalene
Concen: 22.181 ug/l
RT: 14.48 min Scan# 1404
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Instrument :
MSVOA_F
ClientSampleId :
VF1221SBS01

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	158196		
127	11.8	9.4	14.2	
129	10.5	8.8	13.2	

Manual Integrations
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12/26/2018 10:51:14 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.282 ug/l
RT: 14.63 min Scan# 1419
Delta R.T. 0.03 min
Lab File: VF061121.D
Acq: 21 Dec 2018 12:53

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	76843		
182	96.1	47.9	143.8	
145	33.5	18.6	55.8	

