

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012319\
 Data File : VF061481.D
 Acq On : 23 Jan 2019 13:22
 Operator : VA/AP
 Sample : VF0123SBS01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0123SBS01

Manual Integrations
 APPROVED

MMDadoda
 1/24/2019 12:56:54 PM

Quant Time: Jan 24 03:14:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	184620	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	336376	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	295842	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	147235	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	112576	49.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.78%	
35) Dibromofluoromethane	4.10	113	130602	49.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.40%	
50) Toluene-d8	7.54	98	355860	48.93	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.86%	
62) 4-Bromofluorobenzene	11.40	95	150665	44.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.68%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	69639	19.197	ug/l	91
3) Chloromethane	1.09	50	57058	21.452	ug/l	97
4) Vinyl Chloride	1.14	62	51859	21.918	ug/l	99
5) Bromomethane	1.31	94	34962	22.660	ug/l	95
6) Chloroethane	1.40	64	22869	21.813	ug/l	98
7) Trichlorofluoromethane	1.49	101	88697	19.283	ug/l	95
8) Diethyl Ether	1.62	74	13253	22.486	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.84	101	49285	22.299	ug/l	93
10) Methyl Iodide	1.91	142	74662m	21.790	ug/l	
11) Tert butyl alcohol	2.57	59	10322	106.984	ug/l	98
12) 1,1-Dichloroethene	1.80	96	36425	22.183	ug/l	83
13) Acrolein	1.99	56	6817	88.975	ug/l	92
14) Allyl chloride	2.09	41	55678	30.729	ug/l	95
15) Acrylonitrile	2.94	53	31854	128.892	ug/l	95
16) Acetone	2.24	43	56424	123.394	ug/l	94
17) Carbon Disulfide	1.82	76	111446m	21.767	ug/l	
18) Methyl Acetate	2.33	43	18746	20.672	ug/l	99
19) Methyl tert-butyl Ether	2.42	73	76504	20.784	ug/l	98
20) Methylene Chloride	2.18	84	39262m	24.394	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	40936	22.659	ug/l	96
22) Diisopropyl ether	2.80	45	135929	23.262	ug/l	93
23) Vinyl Acetate	3.18	43	323073	127.288	ug/l	99
24) 1,1-Dichloroethane	2.87	63	84965	23.167	ug/l	99
25) 2-Butanone	4.32	43	97240	127.877	ug/l	95
26) 2,2-Dichloropropane	3.59	77	47660	21.152	ug/l	98
27) cis-1,2-Dichloroethene	3.46	96	58453	21.919	ug/l	97
28) Bromochloromethane	3.71	49	35915	21.786	ug/l #	92
29) Tetrahydrofuran	4.07	42	36291	110.836	ug/l	97
30) Chloroform	3.85	83	108622	21.946	ug/l	99
31) Cyclohexane	3.68	56	85580m	23.361	ug/l	
32) 1,1,1-Trichloroethane	4.08	97	68468	18.866	ug/l	96
36) 1,1-Dichloropropene	4.27	75	83443	21.395	ug/l	96
37) Ethyl Acetate	4.11	43	35229	22.597	ug/l #	63
38) Carbon Tetrachloride	3.98	117	63664	18.672	ug/l	96

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Quant Time: Jan 24 03:14:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	89046	21.068	ug/l	95
40) Benzene	4.62	78	186308	21.468	ug/l	100
41) Methacrylonitrile	4.74	41	17764	21.414	ug/l #	90
42) 1,2-Dichloroethane	4.93	62	57885	18.718	ug/l	94
43) Isopropyl Acetate	6.94	43	41347	21.131	ug/l #	96
44) Trichloroethene	5.49	130	58441	21.952	ug/l	95
45) 1,2-Dichloropropane	6.22	63	48592	21.334	ug/l	100
46) Dibromomethane	6.07	93	30583	20.193	ug/l	88
47) Bromodichloromethane	6.37	83	77222	20.608	ug/l	94
48) Methyl methacrylate	6.70	41	27530	20.953	ug/l	88
49) 1,4-Dioxane	6.70	88	4512	454.062	ug/l #	89
51) 4-Methyl-2-Pentanone	8.24	43	162360	112.871	ug/l	99
52) Toluene	7.61	92	115526	20.214	ug/l	95
53) t-1,3-Dichloropropene	8.26	75	61698	20.735	ug/l	97
54) cis-1,3-Dichloropropene	7.29	75	79466	21.366	ug/l	97
55) 1,1,2-Trichloroethane	8.48	97	34690	21.375	ug/l	97
56) Ethyl methacrylate	8.61	69	36149	19.145	ug/l	97
57) 1,3-Dichloropropane	8.84	76	60289	19.819	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.29	63	20431	119.349	ug/l	95
59) 2-Hexanone	9.48	43	125935	125.551	ug/l	95
60) Dibromochloromethane	8.71	129	47784	20.140	ug/l	99
61) 1,2-Dibromoethane	8.97	107	37962	20.433	ug/l	98
64) Tetrachloroethene	8.14	164	46647	20.967	ug/l	91
65) Chlorobenzene	9.78	112	129165	21.470	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.92	131	51929	21.668	ug/l	98
67) Ethyl Benzene	9.89	91	248884	22.643	ug/l	97
68) m/p-Xylenes	10.12	106	174033	44.021	ug/l	96
69) o-Xylene	10.70	106	92196	21.517	ug/l	98
70) Styrene	10.78	104	129958	22.158	ug/l	99
71) Bromoform	10.76	173	23308	21.645	ug/l	96
73) Isopropylbenzene	11.11	105	288154	24.063	ug/l	100
74) N-amyl acetate	11.36	43	72043	25.442	ug/l #	92
75) 1,1,2,2-Tetrachloroethane	11.69	83	49874	23.379	ug/l	97
76) 1,2,3-Trichloropropane	11.78	75	35565	23.202	ug/l	99
77) Bromobenzene	11.49	156	55680	22.017	ug/l	100
78) n-propylbenzene	11.59	91	338176	21.743	ug/l	98
79) 2-Chlorotoluene	11.71	91	192069	23.117	ug/l	97
80) 1,3,5-Trimethylbenzene	11.81	105	223788	23.157	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	12515m	18.781	ug/l	
82) 4-Chlorotoluene	11.89	91	178602	21.302	ug/l	98
83) tert-Butylbenzene	12.12	119	244309	24.425	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	215337	21.632	ug/l	95
85) sec-Butylbenzene	12.30	105	330408	24.324	ug/l	96
86) p-Isopropyltoluene	12.45	119	258474	23.180	ug/l	99
87) 1,3-Dichlorobenzene	12.46	146	112573	21.217	ug/l	96
88) 1,4-Dichlorobenzene	12.55	146	104672	21.903	ug/l	99
89) n-Butylbenzene	12.84	91	285302	24.810	ug/l	98
90) Hexachloroethane	12.91	117	62915	23.936	ug/l	98
91) 1,2-Dichlorobenzene	12.94	146	109440	23.133	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8210	21.698	ug/l	84

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MSVOA_F
ClientSampleId :
VF0123SBSD01

Manual Integrations
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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	71721	21.641	ug/l	97
94) Hexachlorobutadiene	14.18	225	42487	20.660	ug/l	98
95) Naphthalene	14.45	128	124763	19.814	ug/l	97
96) 1,2,3-Trichlorobenzene	14.60	180	64357	20.978	ug/l	98

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

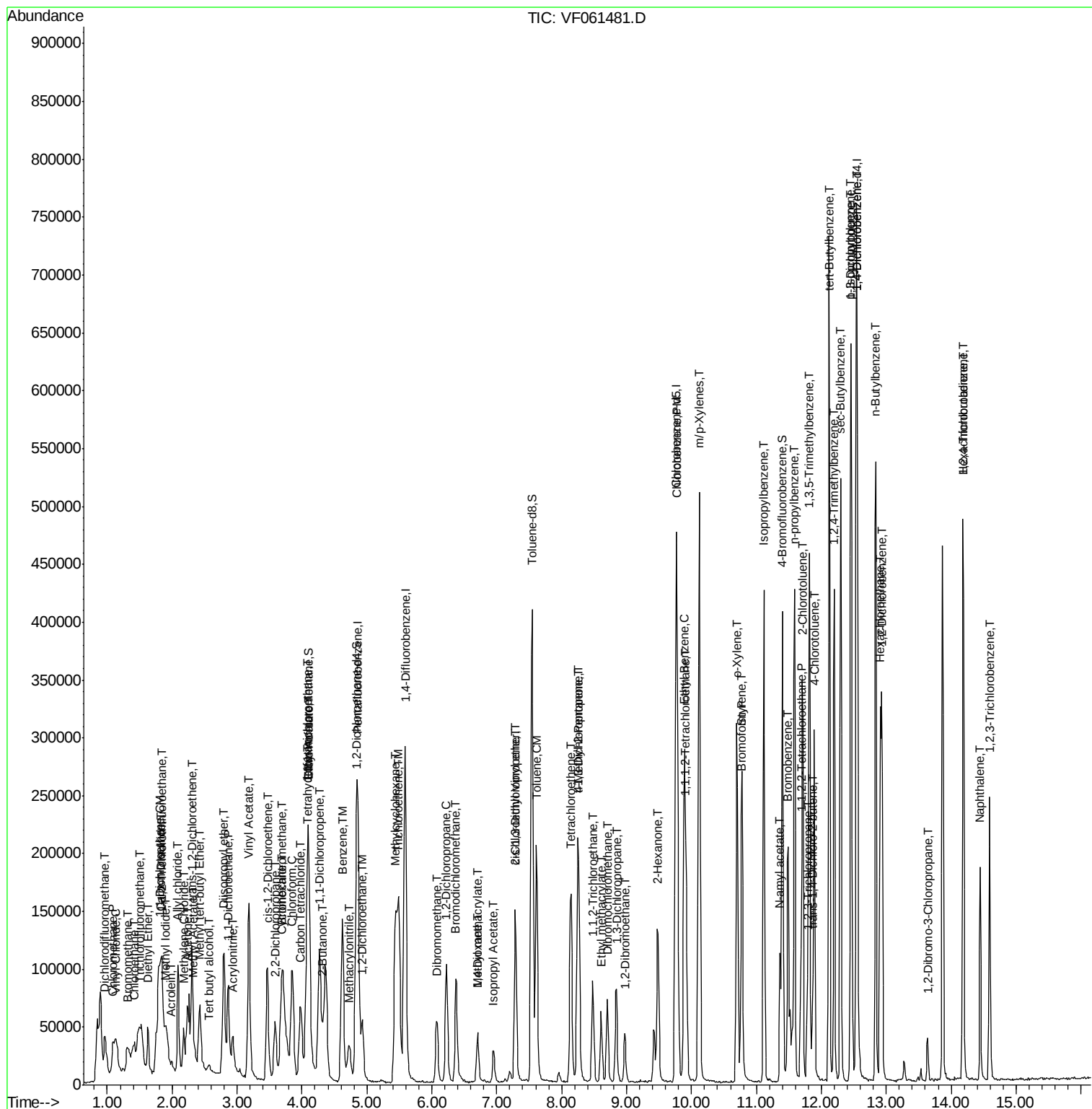
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Data File : VF061481.D
Acq On : 23 Jan 2019 13:22
Operator : VA/AP
Sample : VF0123SBSD01
Misc : 5.00µg/5mL/MSVOA-F/SOIL
ALS Vial : 5 Sample Multiplier: 1

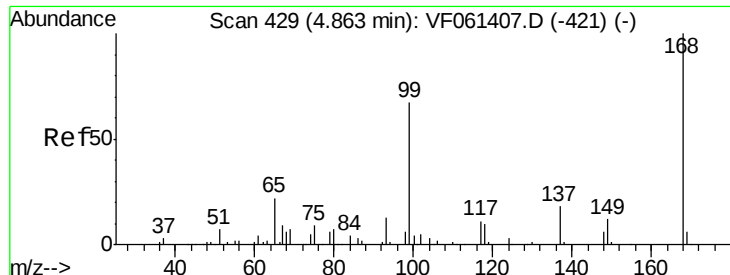
Instrument :
MSVOA_F
Client Sample Id :
VF0123SBSD01

Manual Integrations
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1/24/2019 12:56:54 PM

Quant Time: Jan 24 03:14:31 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion:168 Resp: 184620

Ion Ratio Lower Upper

168 100

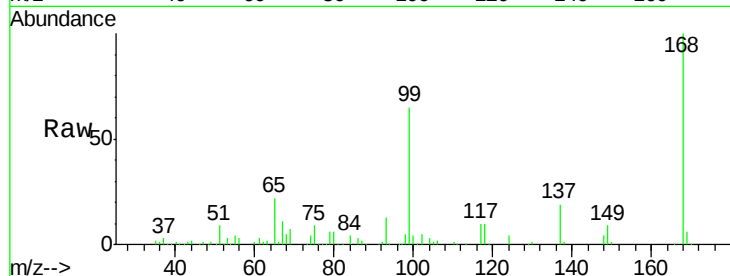
99 65.2 53.5 80.3

Manual Integrations

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1/24/2019 12:56:54 PM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

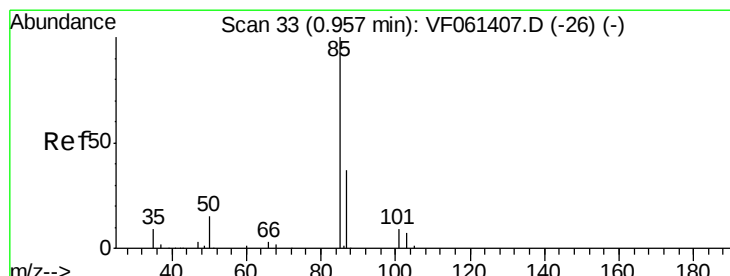
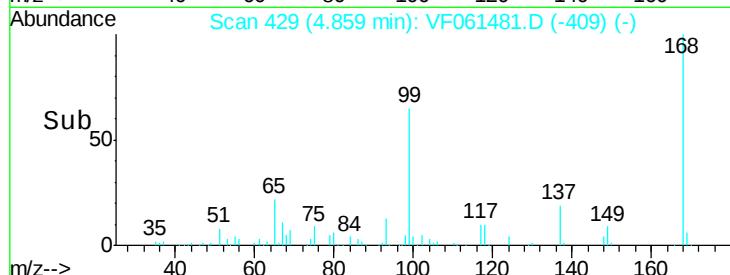
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 19.197 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061481.D

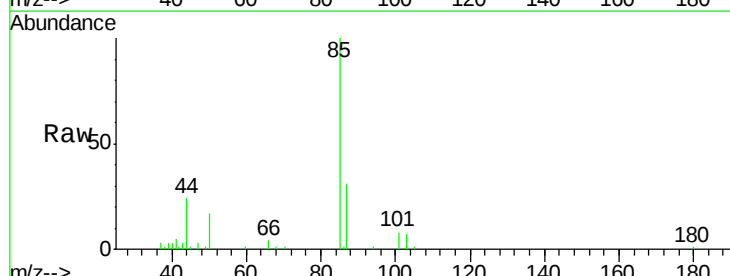
Acq: 23 Jan 2019 13:22

Tgt Ion: 85 Resp: 69639

Ion Ratio Lower Upper

85 100

87 31.1 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

20000

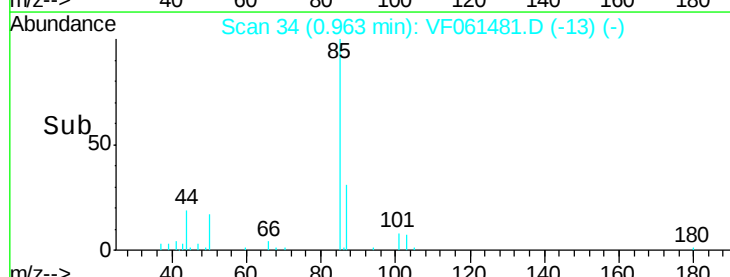
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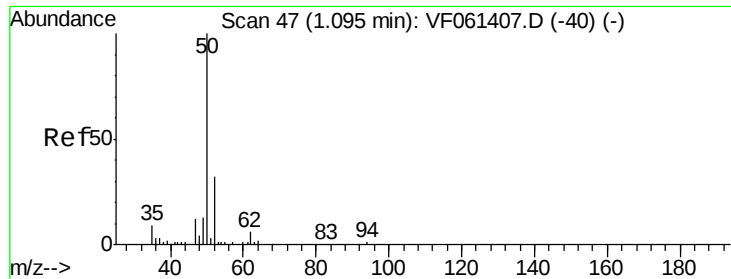
10000

5000

0

Time-->





#3

Chloromethane

Concen: 21.452 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 50 Resp: 57058

Ion Ratio Lower Upper

50 100

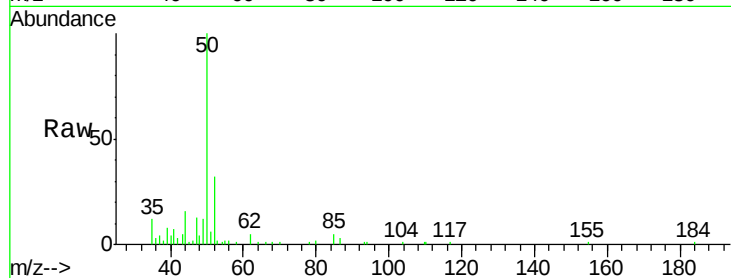
52 32.3 24.6 36.8

Manual Integrations

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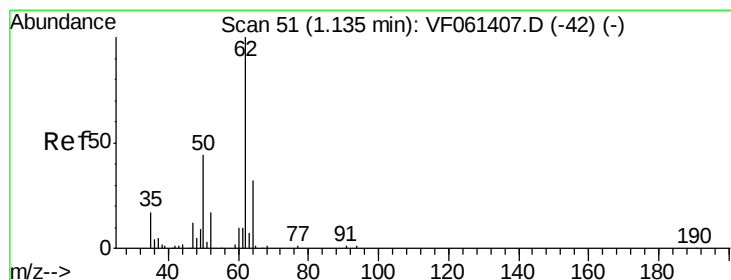
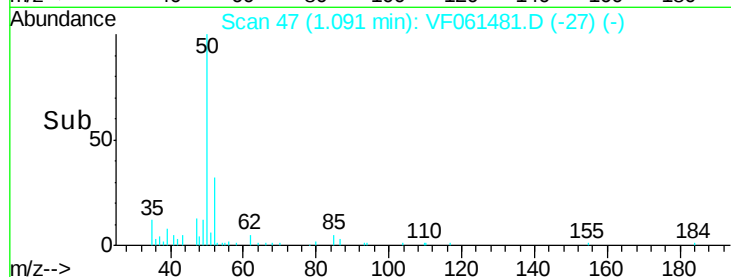
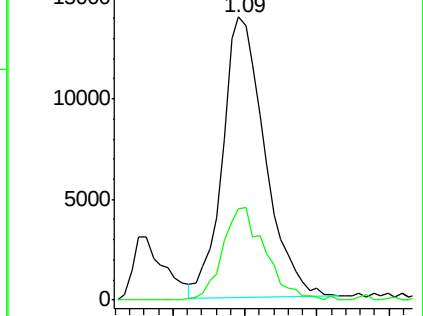
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 21.918 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061481.D

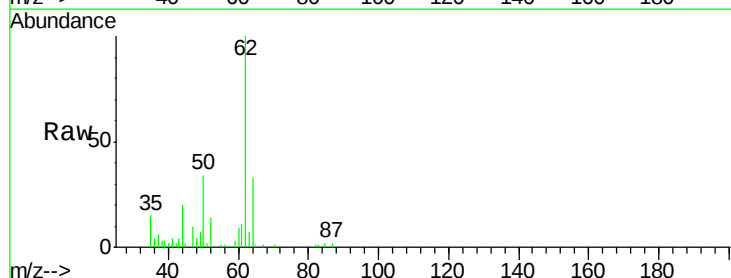
Acq: 23 Jan 2019 13:22

Tgt Ion: 62 Resp: 51859

Ion Ratio Lower Upper

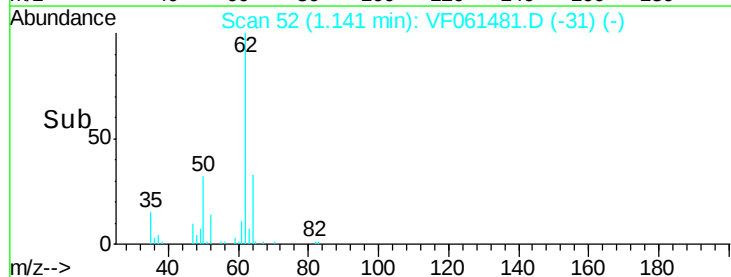
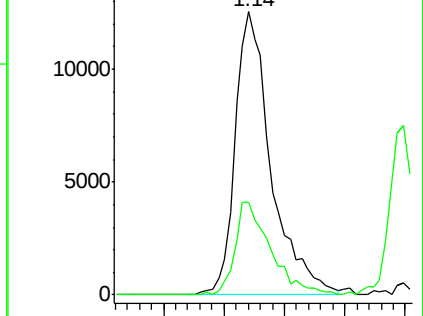
62 100

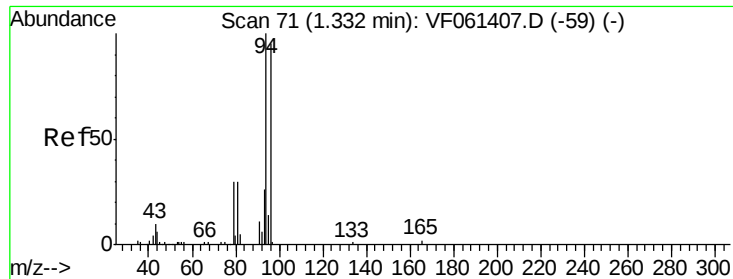
64 32.8 25.6 38.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 22.660 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 94 Resp: 34962

Ion Ratio Lower Upper

94 100

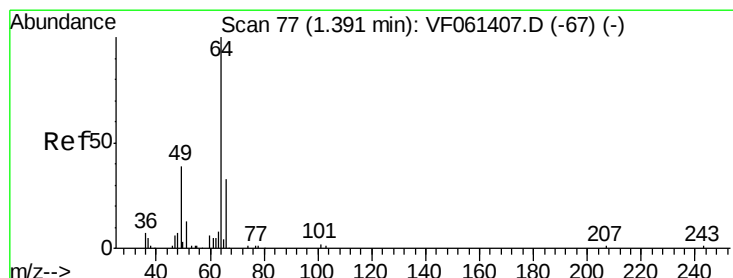
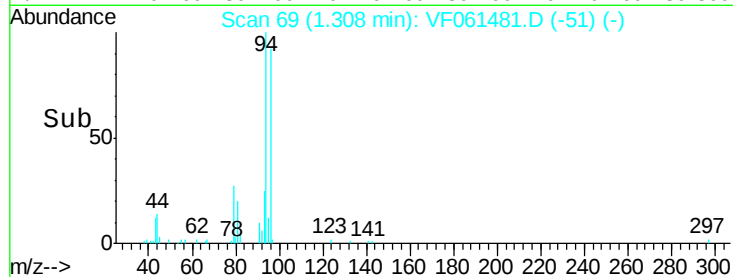
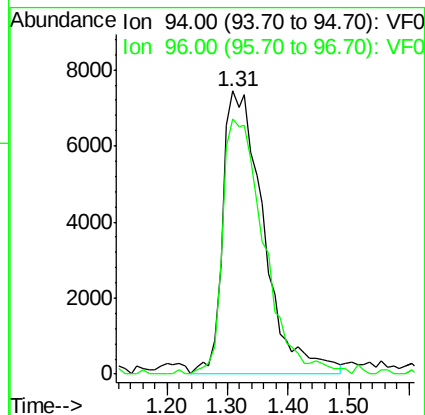
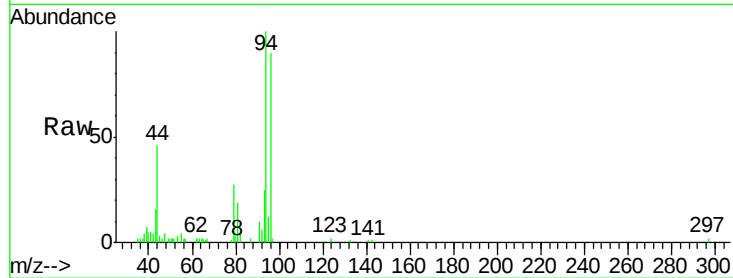
96 90.3 76.0 114.0

Manual Integrations

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#6

Chloroethane

Concen: 21.813 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.01 min

Lab File: VF061481.D

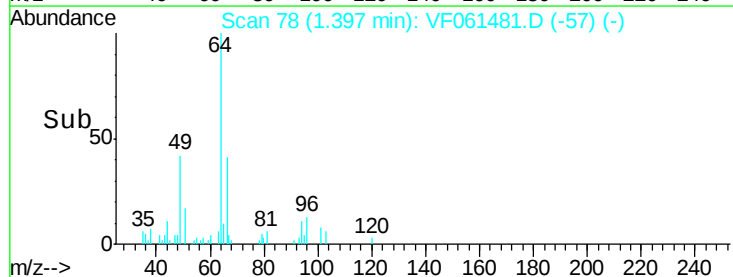
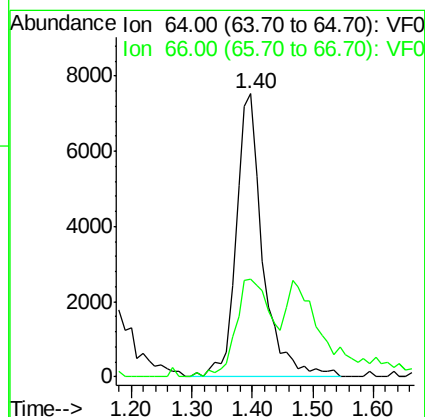
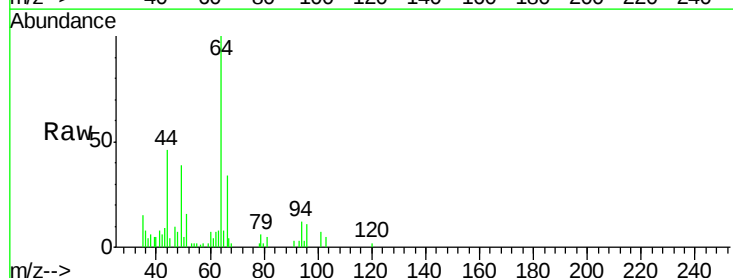
Acq: 23 Jan 2019 13:22

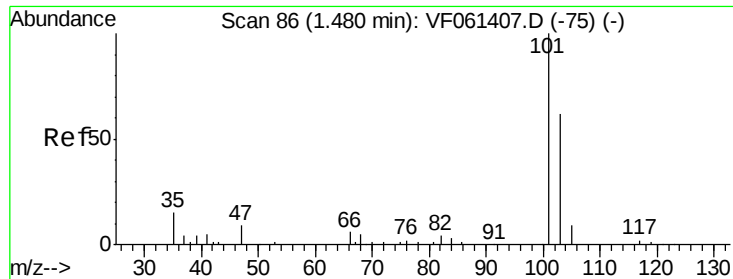
Tgt Ion: 64 Resp: 22869

Ion Ratio Lower Upper

64 100

66 34.5 26.6 40.0





#7

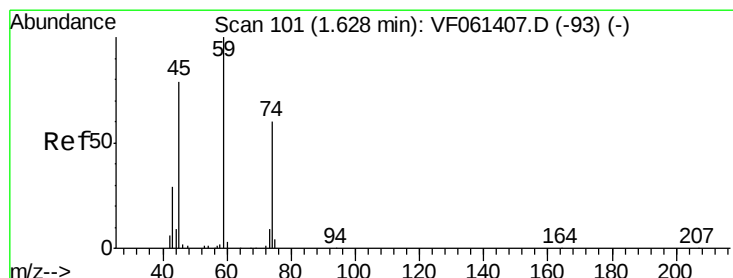
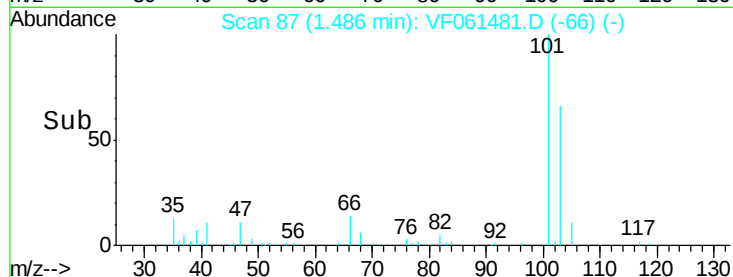
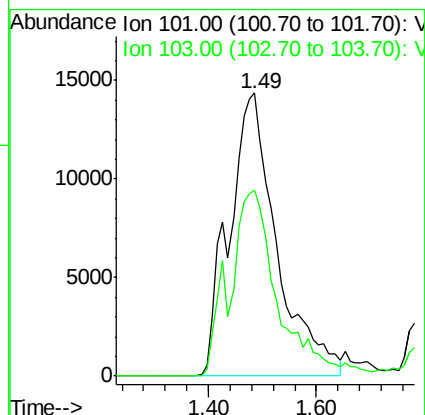
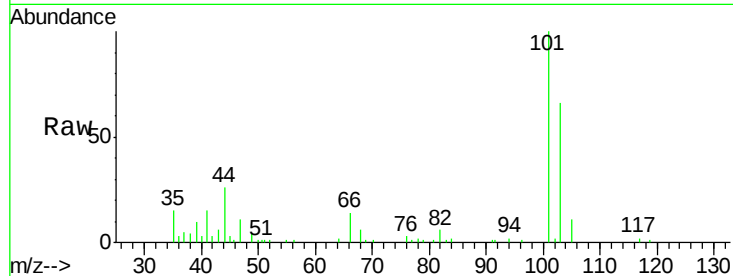
Trichlorofluoromethane
Concen: 19.283 ug/l
RT: 1.49 min Scan# 87
Delta R.T. 0.01 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBSD01

Tot Ion:101 Resp: 88697
Ion Ratio Lower Upper
101 100
103 65.7 49.7 74.5

Manual Integrations
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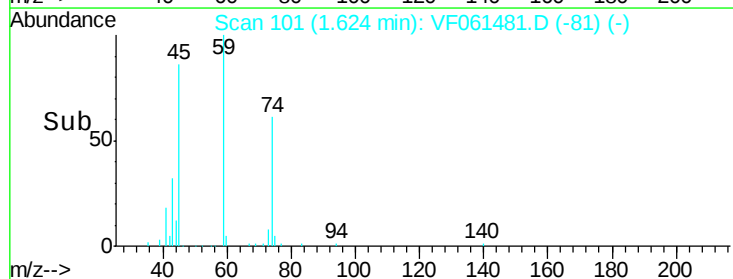
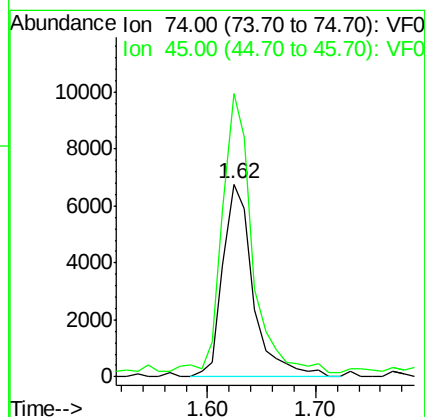
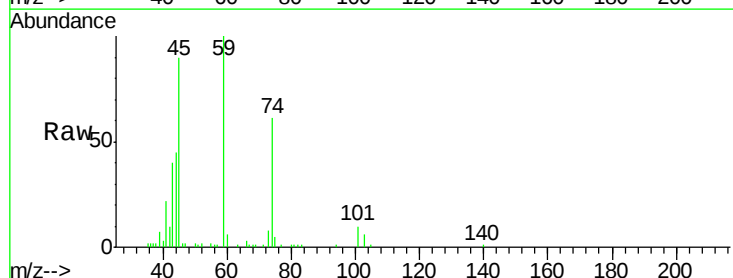
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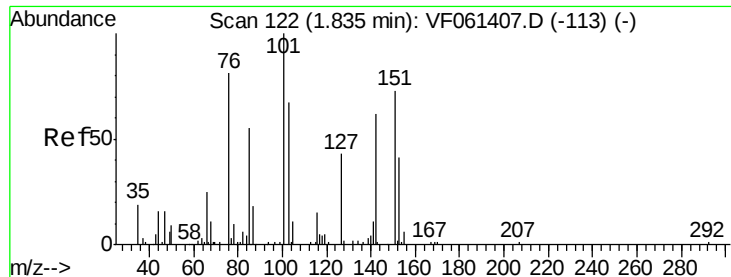


#8

Diethyl Ether
Concen: 22.486 ug/l
RT: 1.62 min Scan# 101
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion: 74 Resp: 13253
Ion Ratio Lower Upper
74 100
45 147.0 65.8 197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 22.299 ug/l

RT: 1.84 min Scan# 123

Delta R.T. 0.01 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

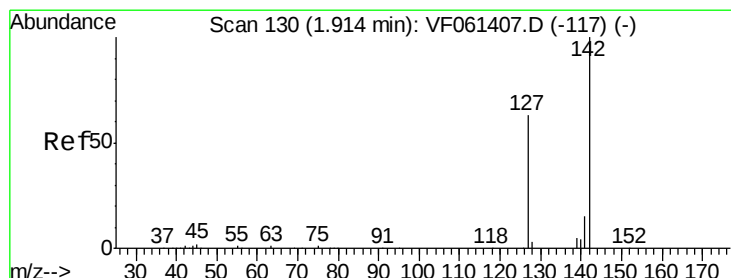
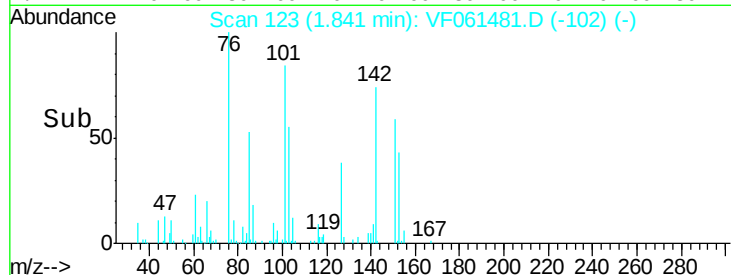
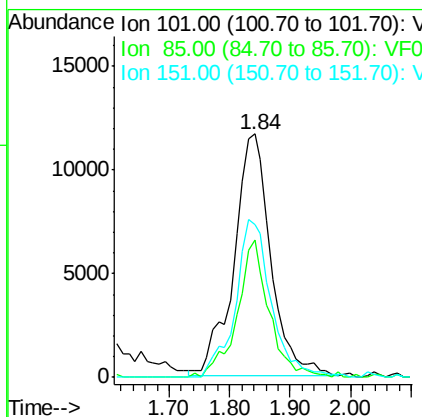
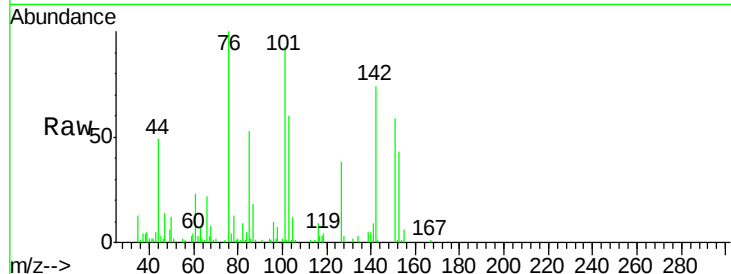
ClientSampleId :

VF0123SBS01

Tot Ion:	101	Resp:	49285
Ion Ratio	Lower	Upper	
101	100		
85	56.6	41.9	62.9
151	62.9	55.1	82.7

Manual Integrations
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#10

Methyl Iodide

Concen: 21.790 ug/l m

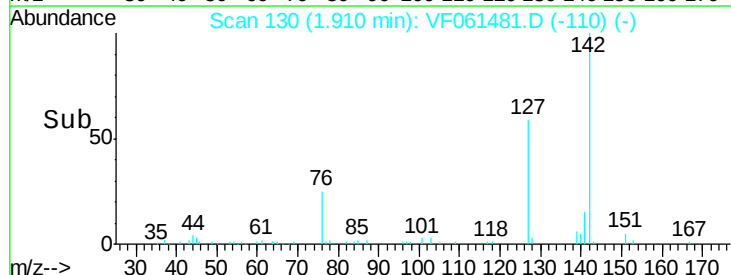
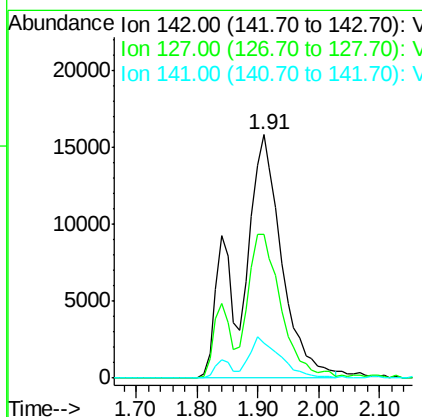
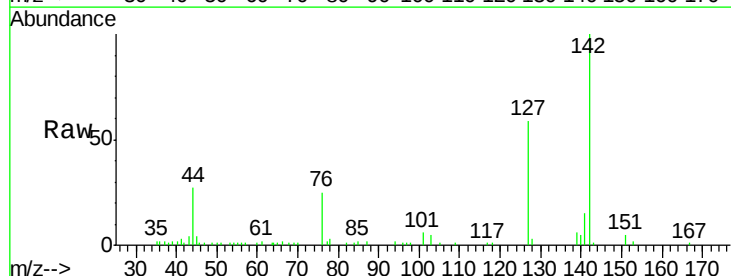
RT: 1.91 min Scan# 130

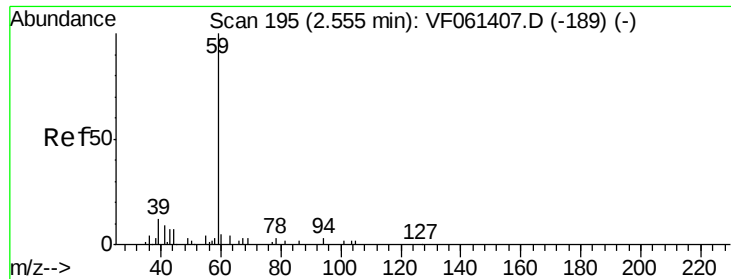
Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	142	Resp:	74662
Ion Ratio	Lower	Upper	
142	100		
127	59.2	50.7	76.1
141	14.5	11.8	17.6





#11

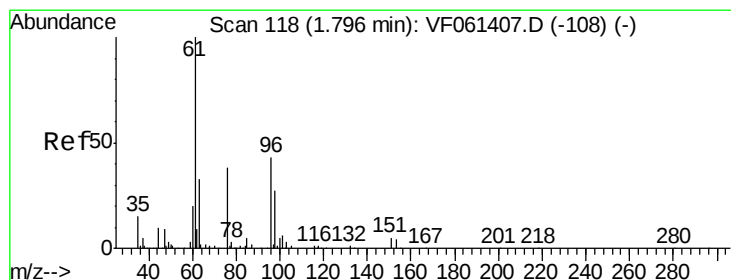
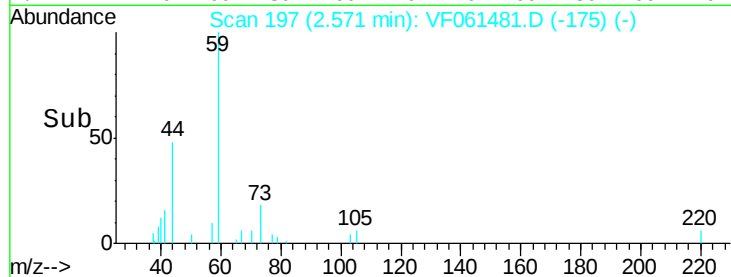
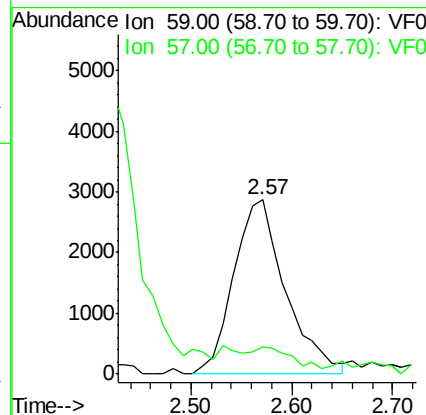
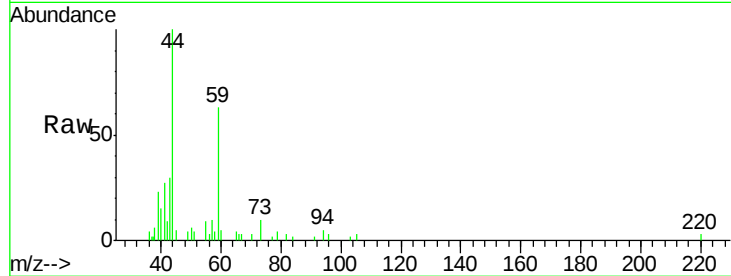
Tert butyl alcohol
Concen: 106.984 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.02 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion: 59 Resp: 10322
Ion Ratio Lower Upper
59 100
57 15.7 11.9 17.9

Manual Integrations
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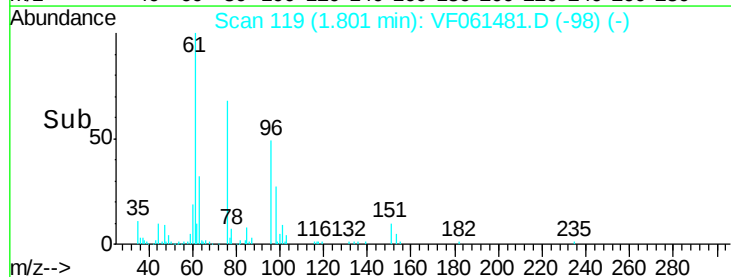
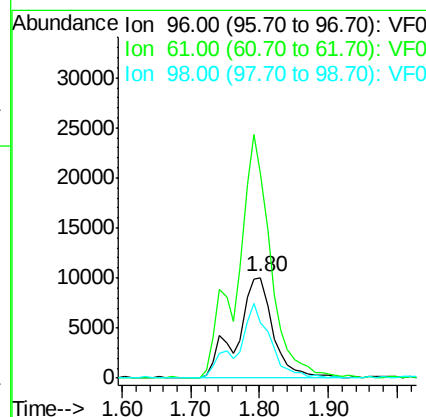
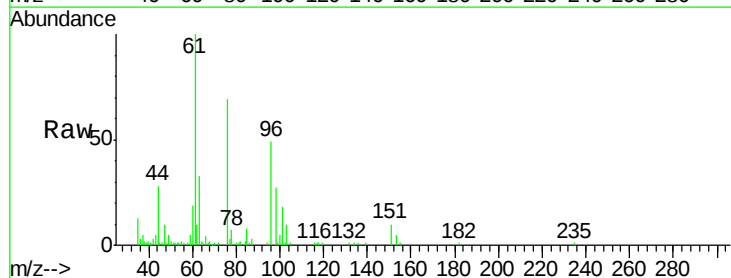
MMDadoda
1/24/2019 12:56:54 PM

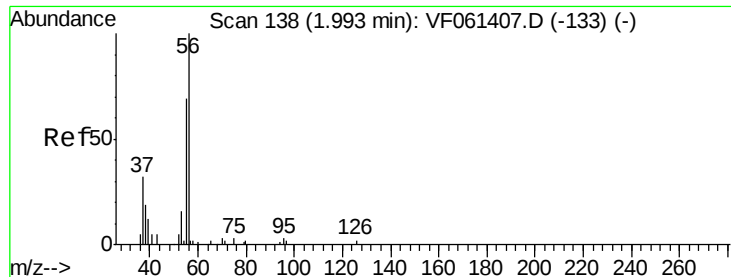


#12

1,1-Dichloroethene
Concen: 22.183 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.01 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion: 96 Resp: 36425
Ion Ratio Lower Upper
96 100
61 204.7 186.9 280.3
98 54.8 53.0 79.4





#13

Acrolein

Concen: 88.975 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 56 Resp: 6817

Ion Ratio Lower Upper

56 100

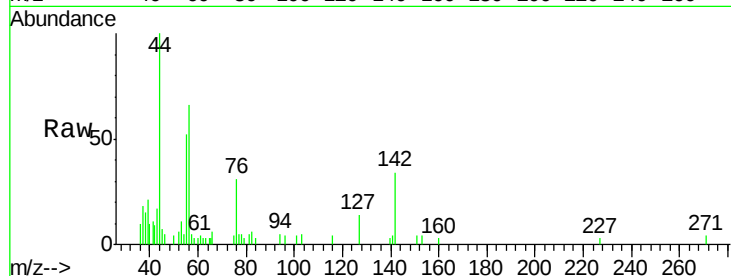
55 78.9 57.5 86.3

Manual Integrations

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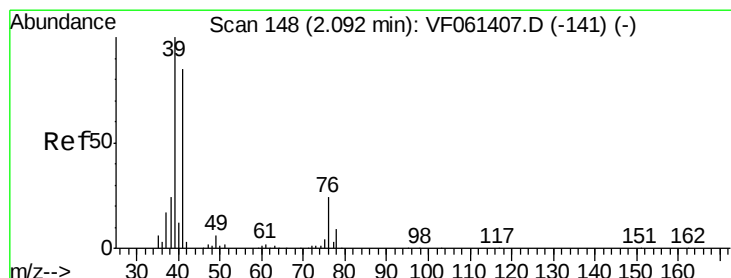
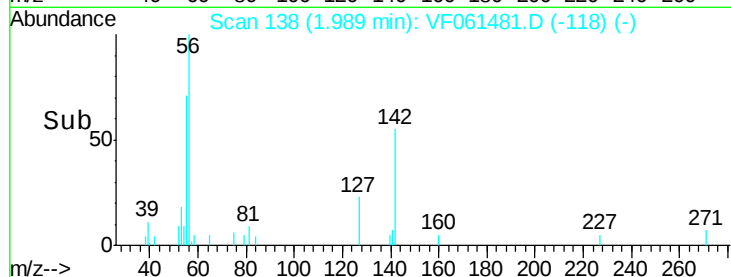
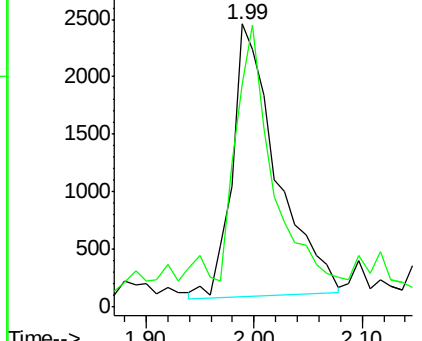
MMDadoda

1/24/2019 12:56:54 PM



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 30.729 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

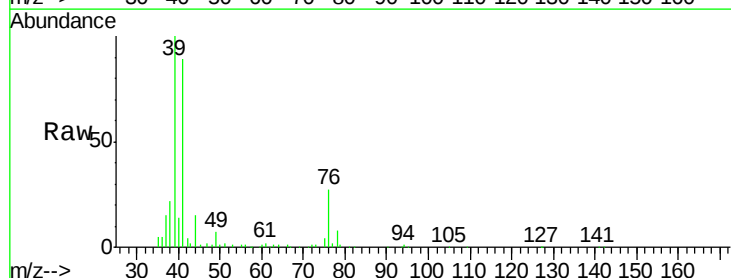
Tgt Ion: 41 Resp: 55678

Ion Ratio Lower Upper

41 100

39 112.5 94.6 141.8

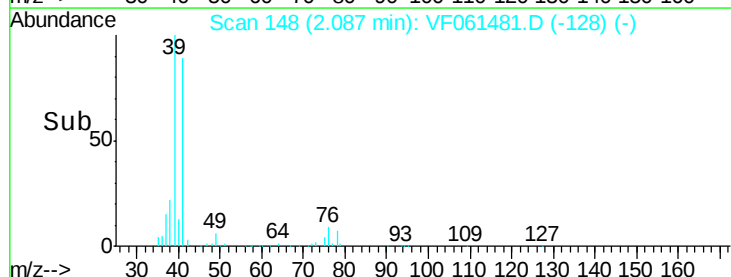
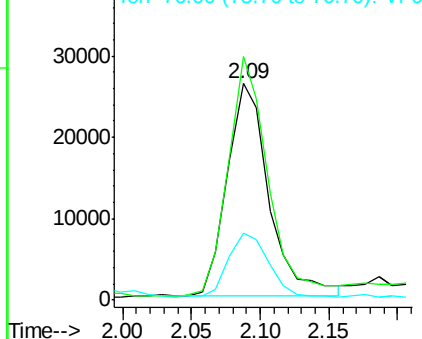
76 30.7 25.9 38.9

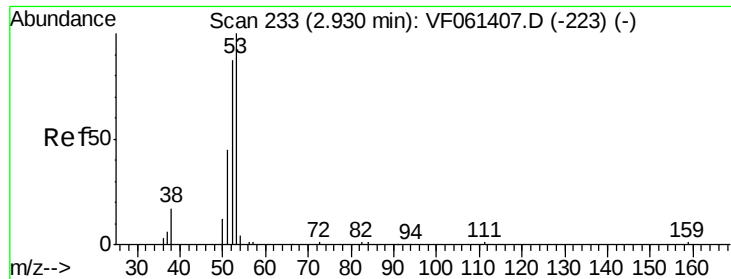


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 128.892 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

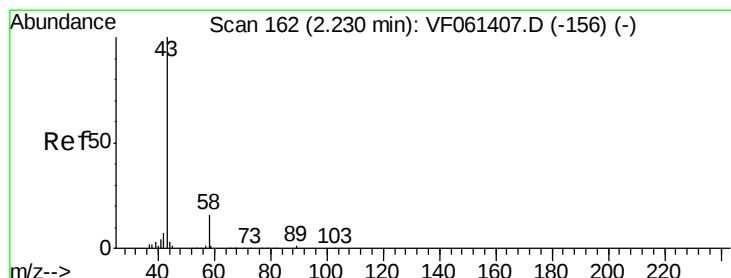
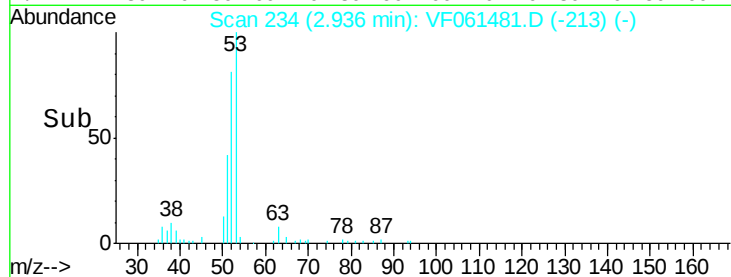
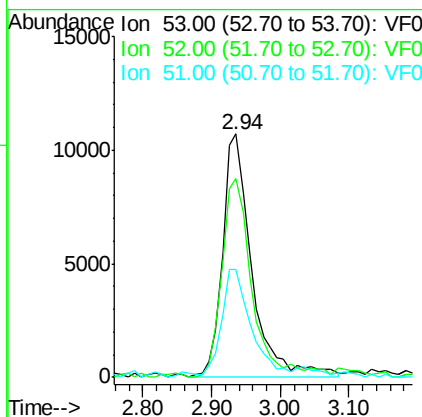
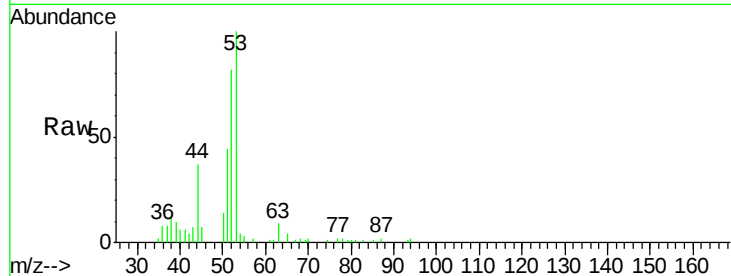
ClientSampleId :

VF0123SBS01

Tot Ion:	53	Resp:	31854
Ion	Ratio	Lower	Upper
53	100		
52	81.9	69.6	104.4
51	44.2	36.8	55.2

Manual Integrations
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#16

Acetone

Concen: 123.394 ug/l

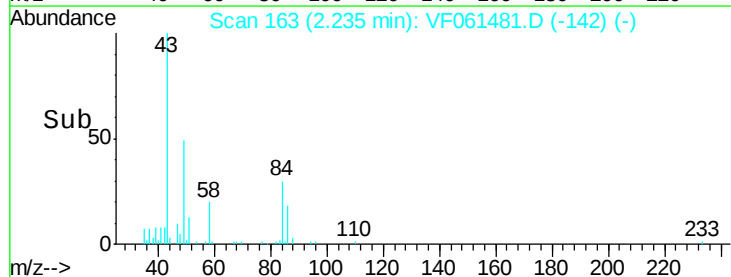
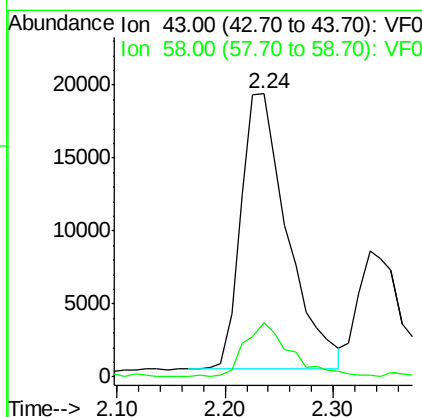
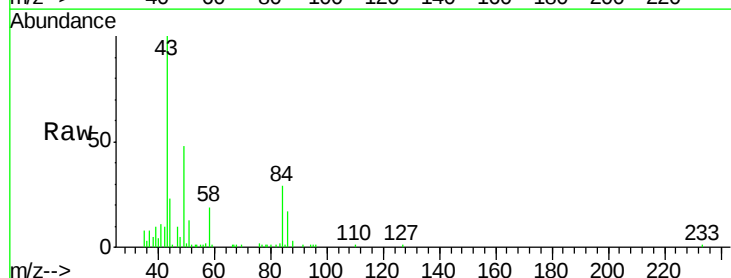
RT: 2.24 min Scan# 163

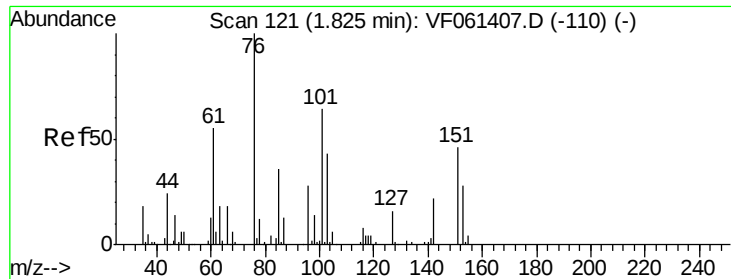
Delta R.T. 0.01 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	43	Resp:	56424
Ion	Ratio	Lower	Upper
43	100		
58	19.1	13.3	19.9





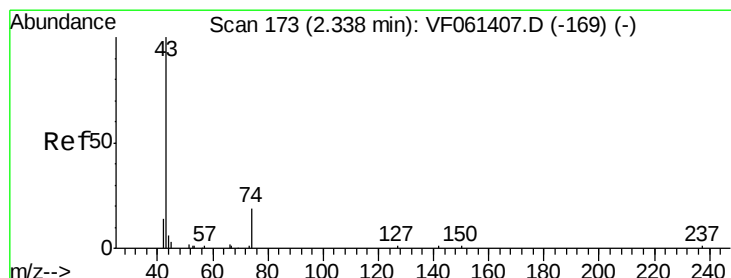
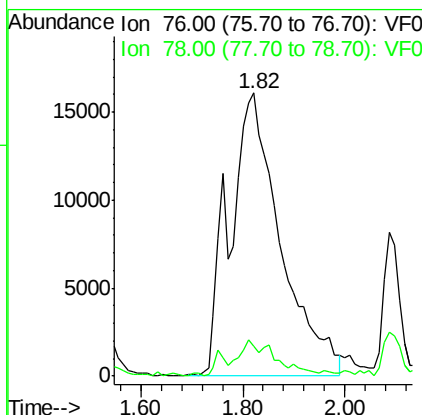
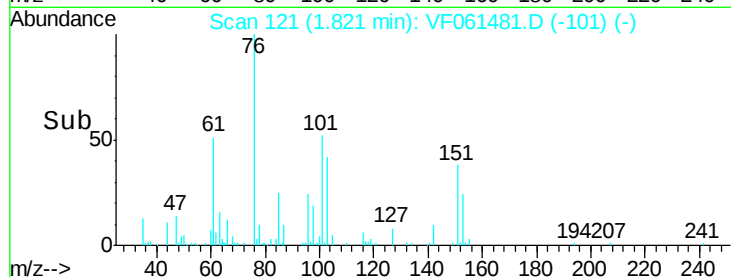
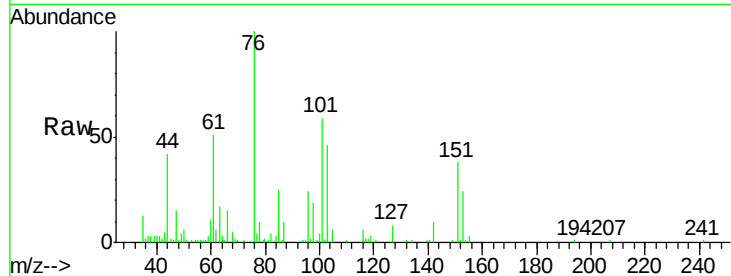
#17
Carbon Disulfide
Concen: 21.767 ug/l m
RT: 1.82 min Scan# 121
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion: 76 Resp: 111446
Ion Ratio Lower Upper
76 100
78 10.5 9.6 14.4

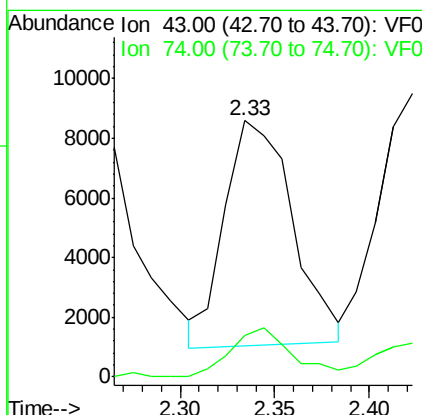
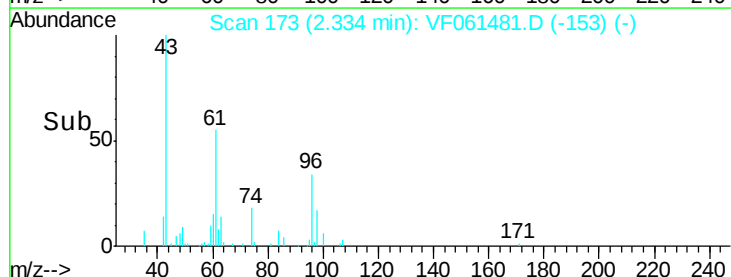
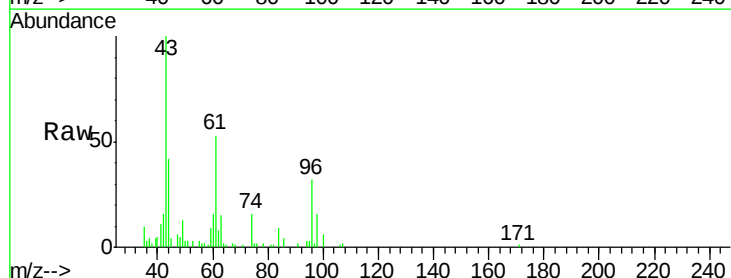
Manual Integrations
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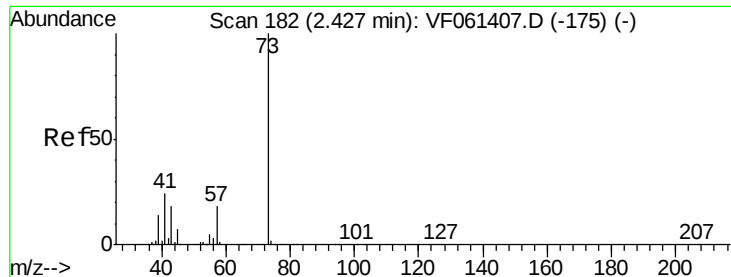
MMDadoda
1/24/2019 12:56:54 PM



#18
Methyl Acetate
Concen: 20.672 ug/l
RT: 2.33 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion: 43 Resp: 18746
Ion Ratio Lower Upper
43 100
74 16.4 13.4 20.0





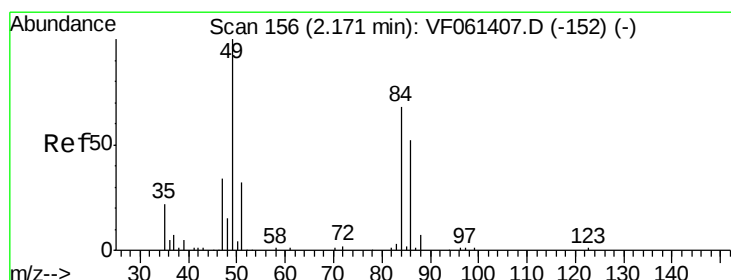
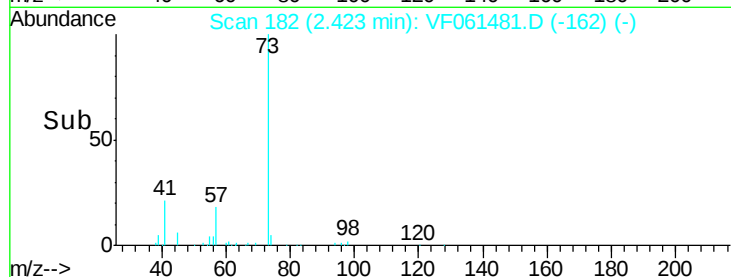
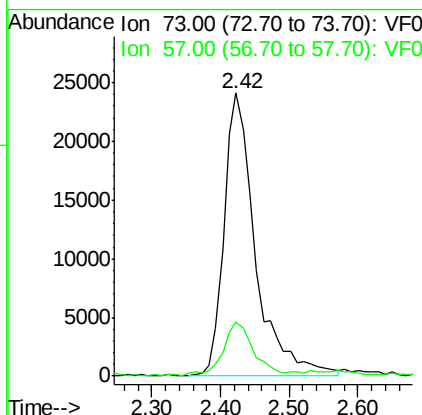
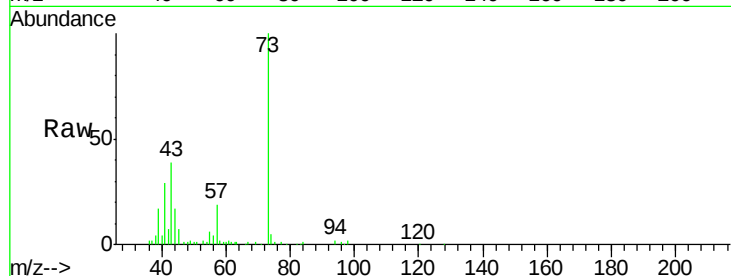
#19
Methvl tert-butvl Ether
Concen: 20.784 ug/l
RT: 2.42 min Scan# 182
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion: 73 Resp: 76504
Ion Ratio Lower Upper
73 100
57 19.3 14.8 22.2

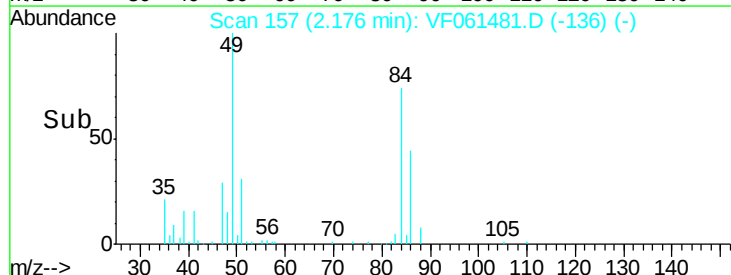
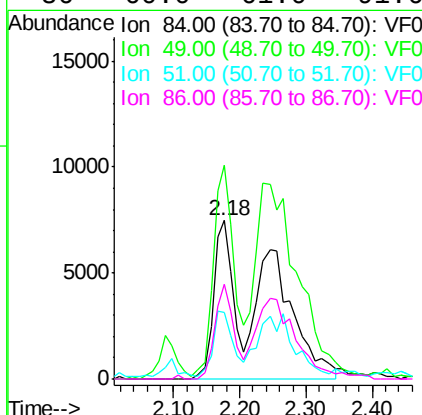
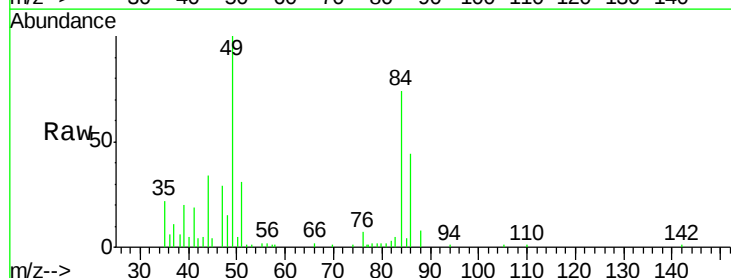
Manual Integrations
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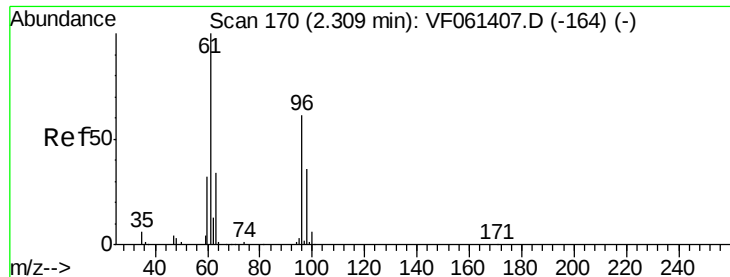
MMDadoda
1/24/2019 12:56:54 PM



#20
Methylene Chloride
Concen: 24.394 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion: 84 Resp: 39262
Ion Ratio Lower Upper
84 100
49 135.0 120.0 180.0
51 42.5 38.6 58.0
86 60.0 61.0 91.6#





#21

trans-1,2-Dichloroethene

Concen: 22.659 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

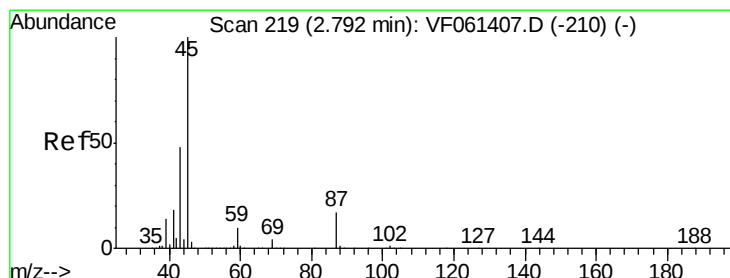
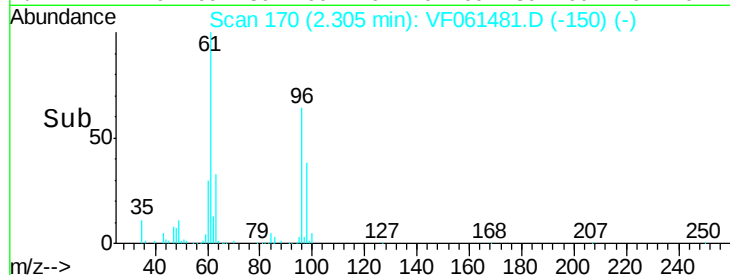
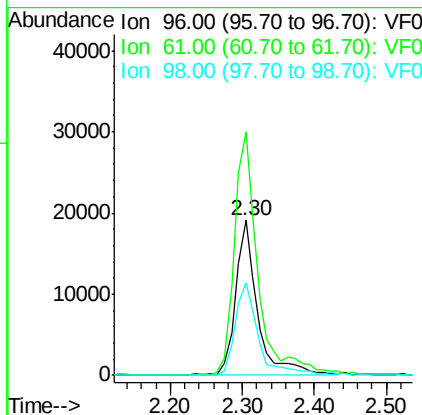
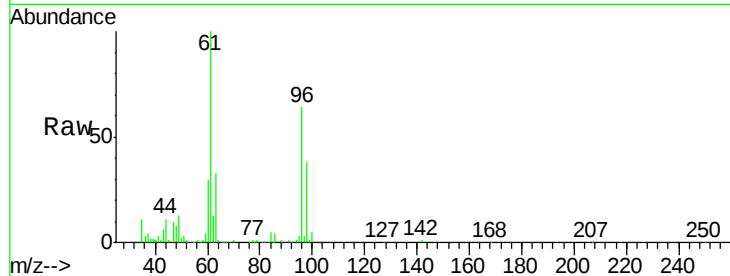
ClientSampleId :

VF0123SBS01

Tot Ion:	96	Resp:	40936
Ion	Ratio	Lower	Upper
96	100		
61	157.2	131.8	197.8
98	59.4	47.4	71.0

Manual Integrations
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1/24/2019 12:56:54 PM



#22

Diisopropyl ether

Concen: 23.262 ug/l

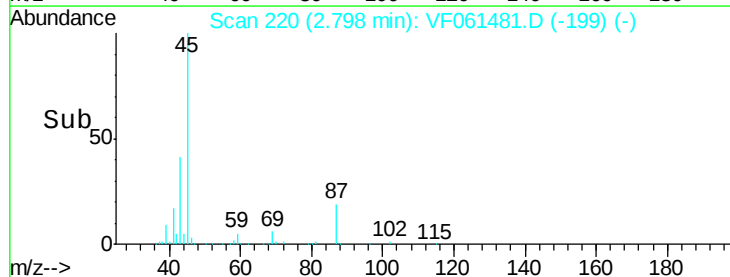
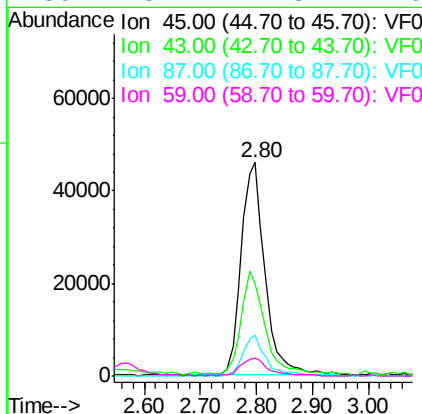
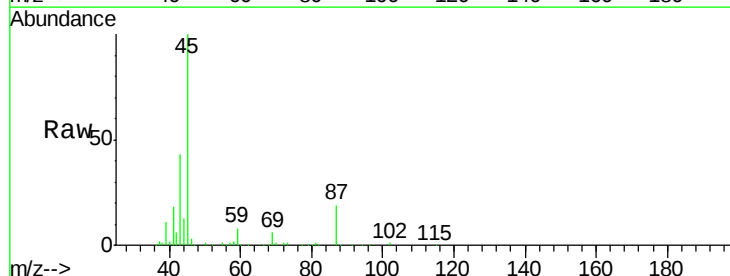
RT: 2.80 min Scan# 220

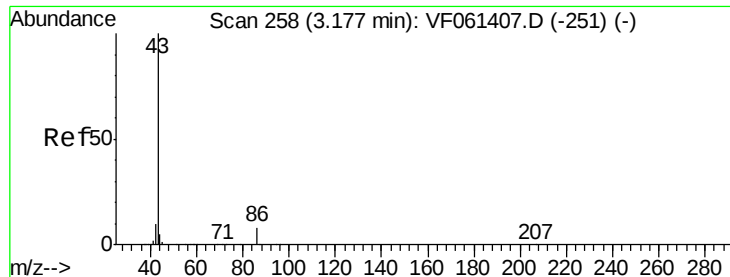
Delta R.T. 0.01 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	45	Resp:	135929
Ion	Ratio	Lower	Upper
45	100		
43	43.2	39.0	58.6
87	19.3	13.9	20.9
59	8.4	7.8	11.6





#23

Vinyl Acetate

Concen: 127.288 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 43 Resp: 323073

Ion Ratio Lower Upper

43 100

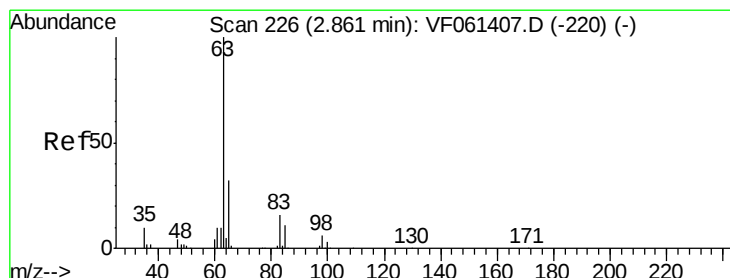
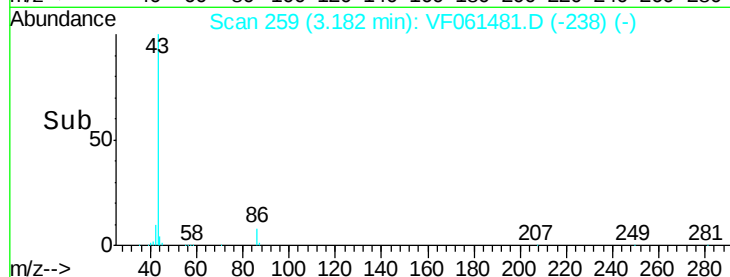
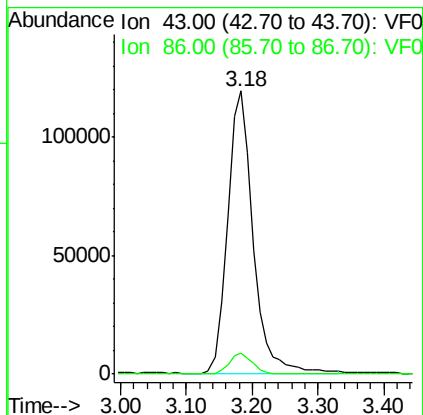
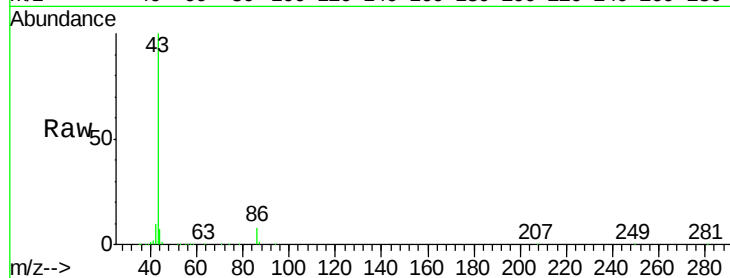
86 7.5 6.2 9.4

Manual Integrations

APPROVED

MMDadoda

1/24/2019 12:56:54 PM



#24

1,1-Dichloroethane

Concen: 23.167 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

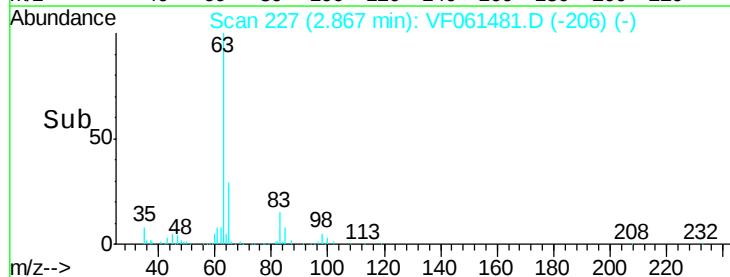
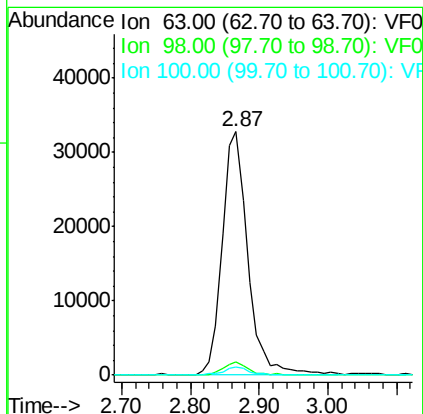
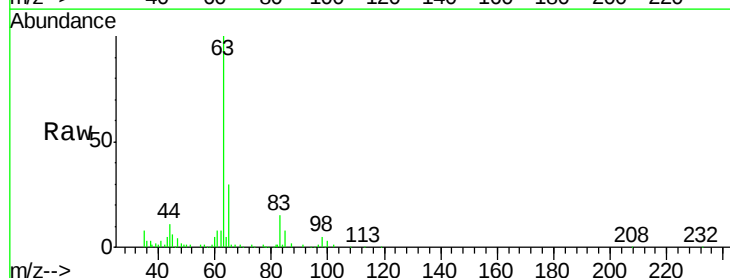
Tgt Ion: 63 Resp: 84965

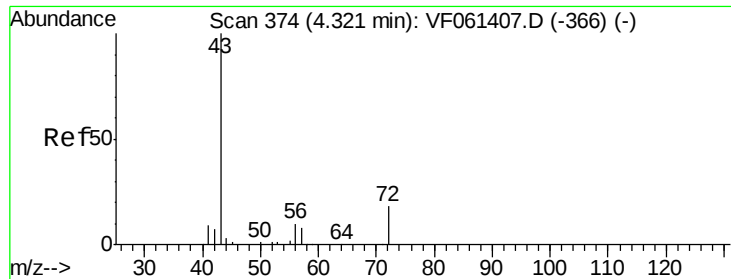
Ion Ratio Lower Upper

63 100

98 5.3 2.9 8.8

100 3.1 1.6 4.8





#25

2-Butanone

Concen: 127.877 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 43 Resp: 97240

Ion Ratio Lower Upper

43 100

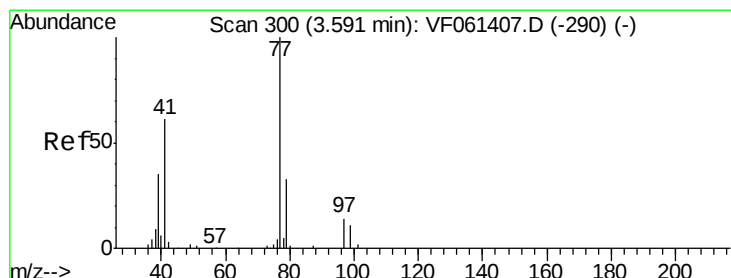
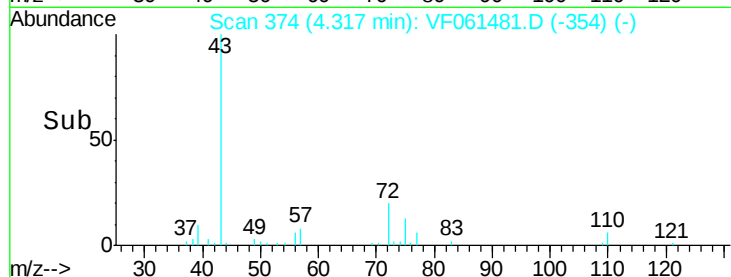
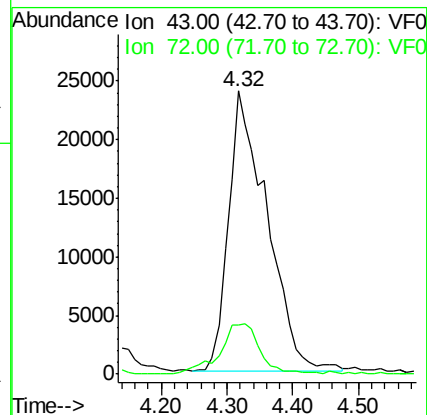
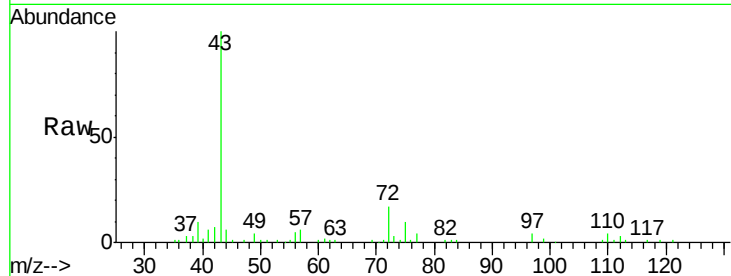
72 17.2 15.8 23.6

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 21.152 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.00 min

Lab File: VF061481.D

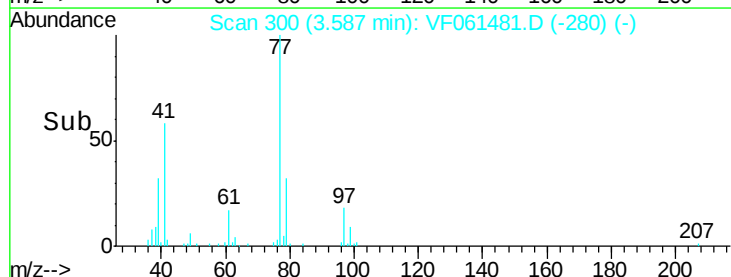
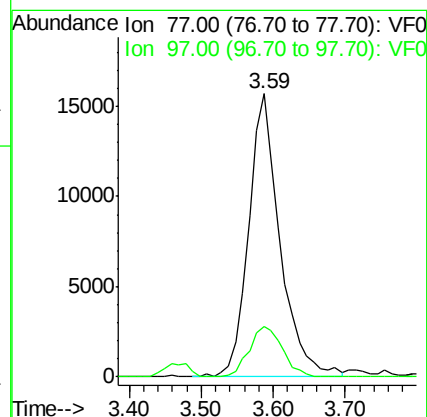
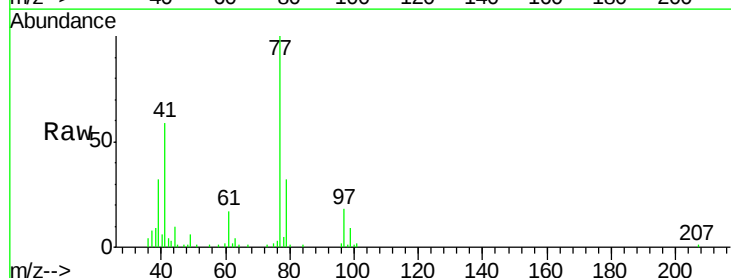
Acq: 23 Jan 2019 13:22

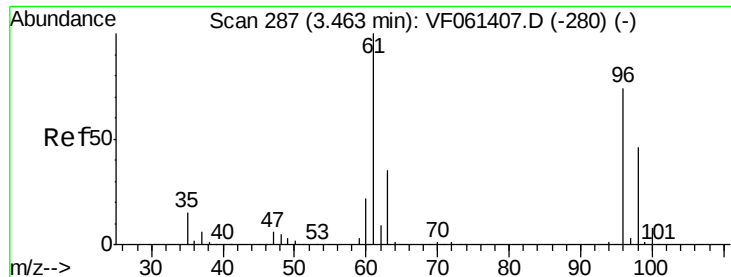
Tgt Ion: 77 Resp: 47660

Ion Ratio Lower Upper

77 100

97 17.7 8.5 25.5





#27

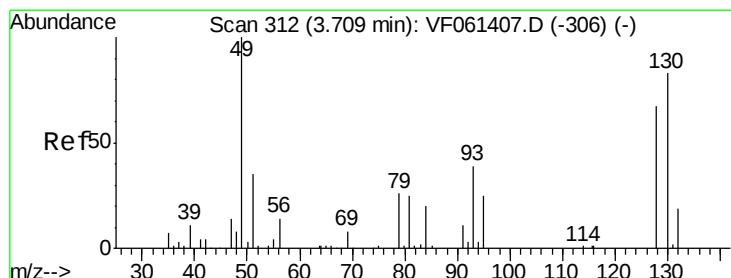
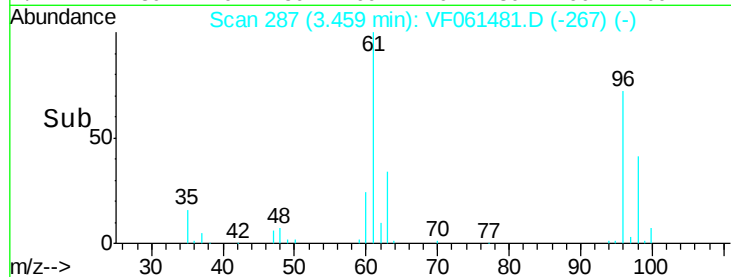
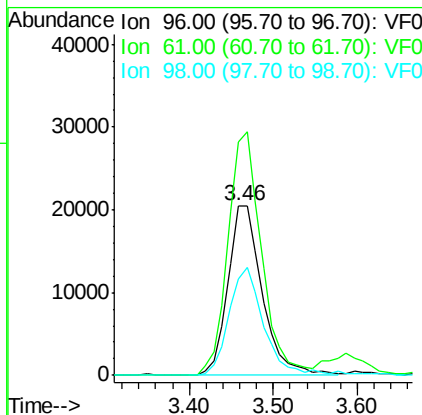
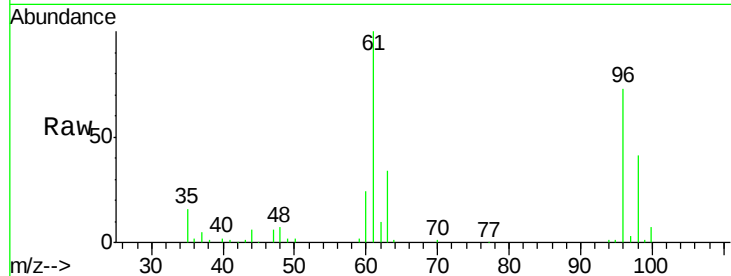
cis-1,2-Dichloroethene
Concen: 21.919 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	58453		
61	137.4		0.0	270.2
98	56.9		0.0	124.0

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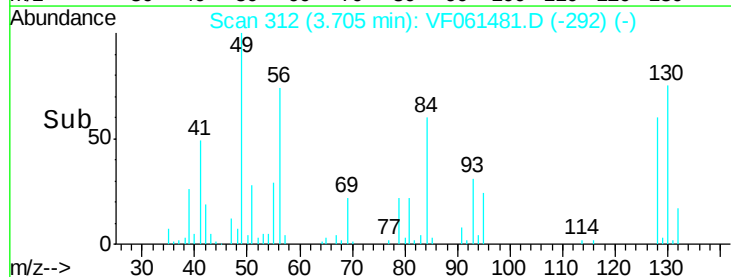
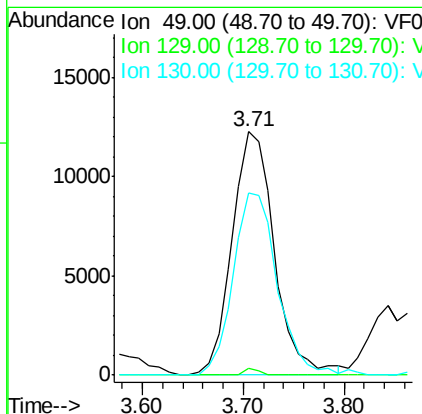
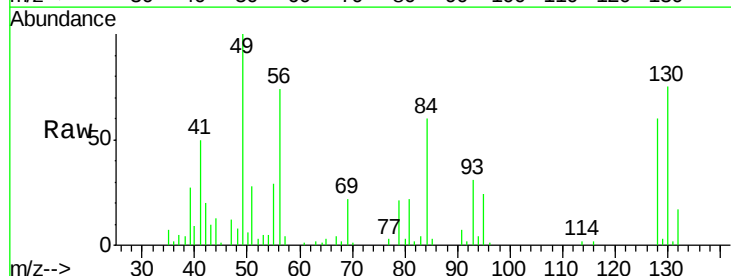
MMDadoda
1/24/2019 12:56:54 PM

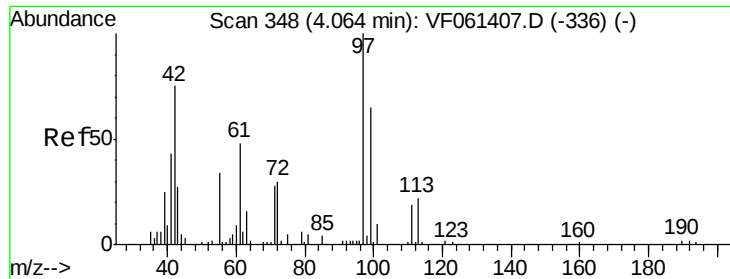


#28

Bromochloromethane
Concen: 21.786 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	35915		
129	2.9		0.0	0.0#
130	74.7		65.4	98.2





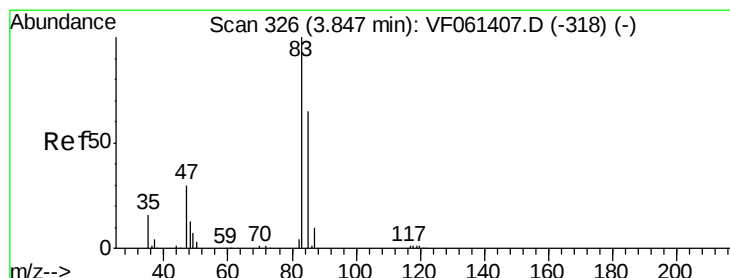
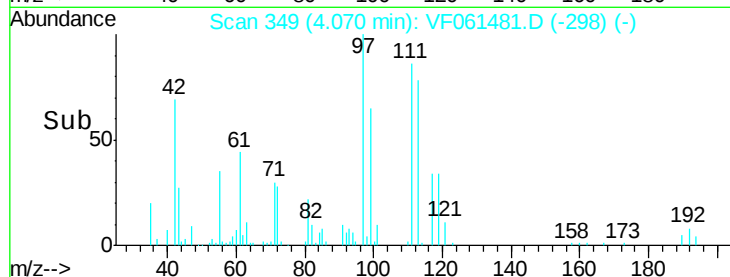
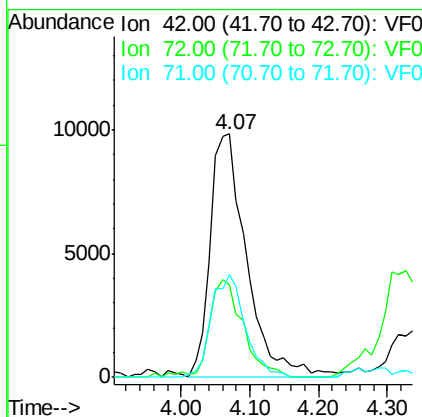
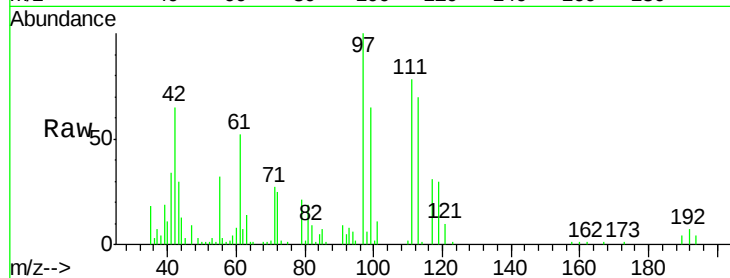
#29
Tetrahydrofuran
Concen: 110.836 ug/l
RT: 4.07 min Scan# 349
Delta R.T. 0.01 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Resp Lower	Upper
42	100		
72	37.2	28.9	43.3
71	39.1	29.6	44.4

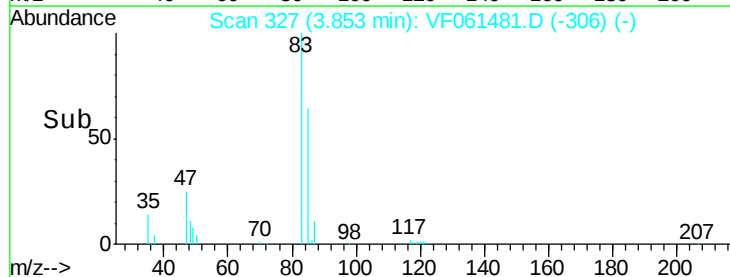
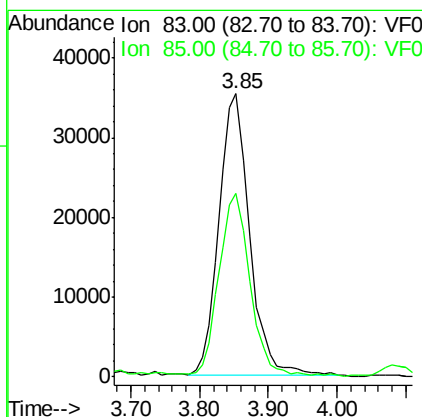
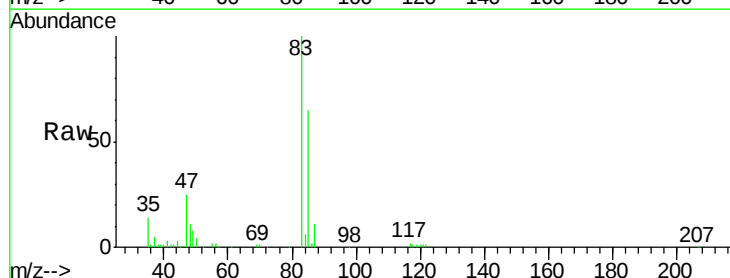
Manual Integrations
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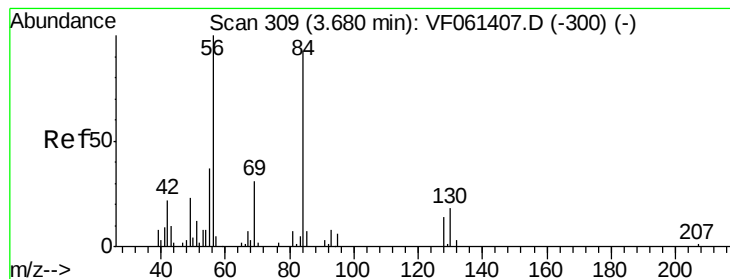
MMDadoda
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#30
Chloroform
Concen: 21.946 ug/l
RT: 3.85 min Scan# 327
Delta R.T. 0.01 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Resp Lower	Upper
83	100		
85	64.8	52.7	79.1





#31

Cyclohexane

Concen: 23.361 ug/l m

RT: 3.68 min Scan# 309

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

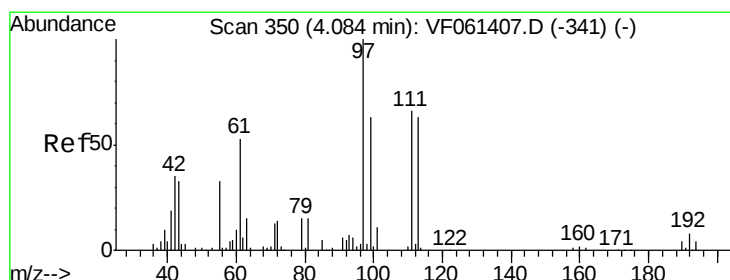
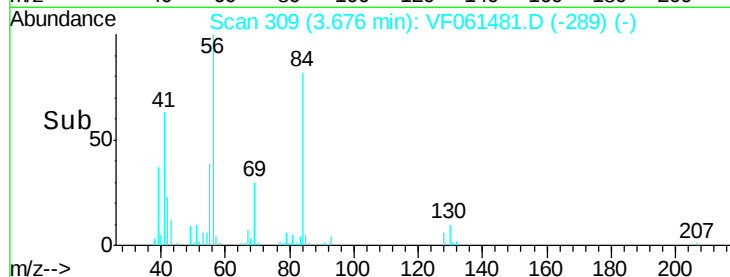
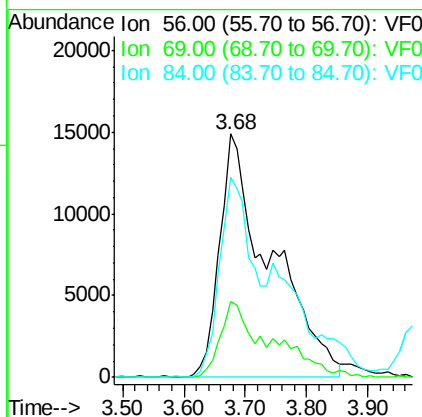
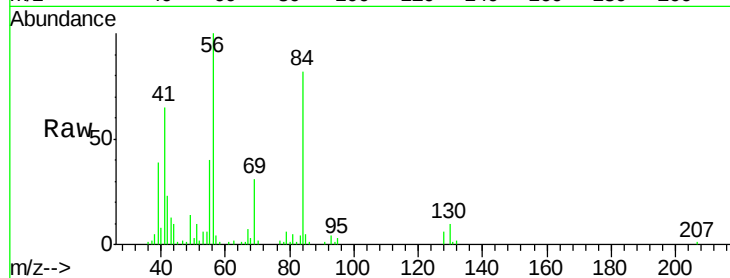
ClientSampleId :

VF0123SBS01

Tot Ion:	56	Resp:	85580
Ion	Ratio	Lower	Upper
56	100		
69	31.2	24.6	36.8
84	82.3	74.2	111.2

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#32

1,1,1-Trichloroethane

Concen: 18.866 ug/l

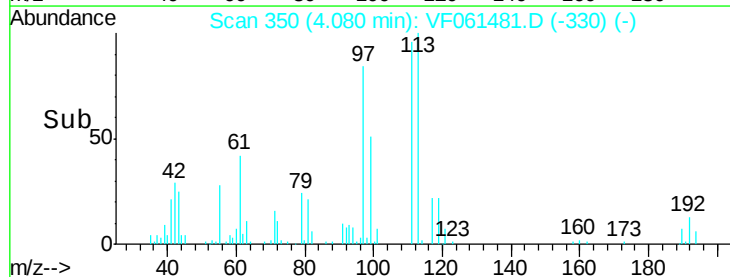
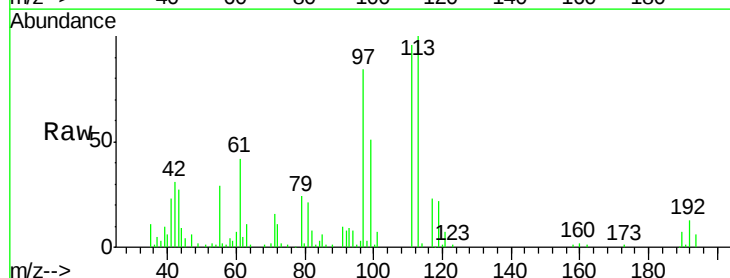
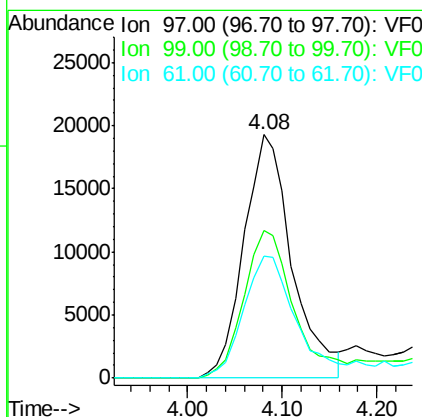
RT: 4.08 min Scan# 350

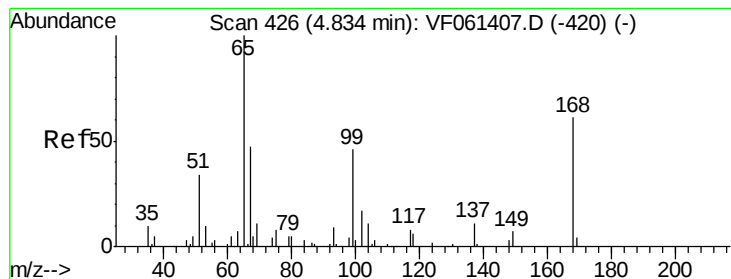
Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	97	Resp:	68468
Ion	Ratio	Lower	Upper
97	100		
99	60.5	50.1	75.1
61	50.0	43.1	64.7





#33

1,2-Dichloroethane-d4

Concen: 49.389 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tot Ion: 65 Resp: 112576

Ion Ratio Lower Upper

65 100

67 46.4 0.0 99.8

Instrument :

MSVOA_F

ClientSampleId :

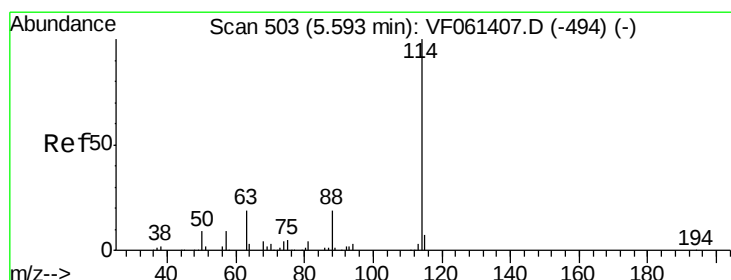
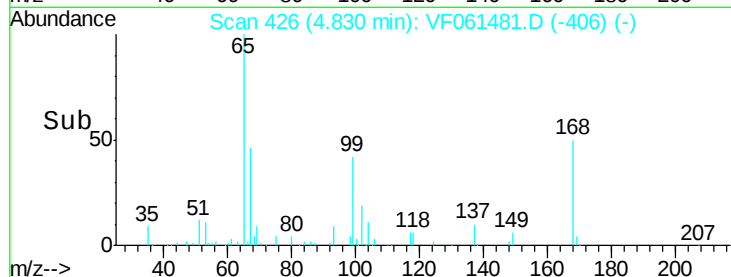
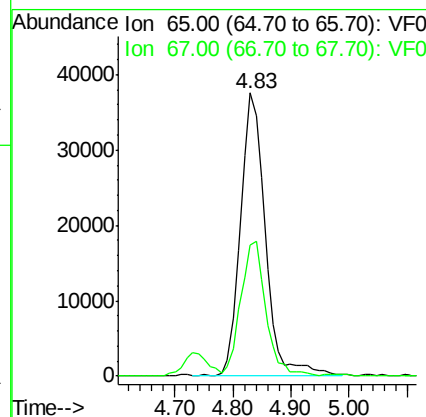
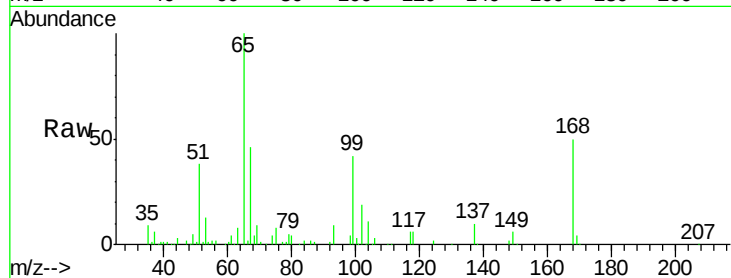
VF0123SBS01

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

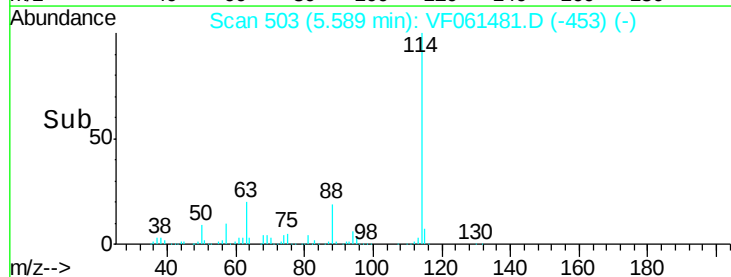
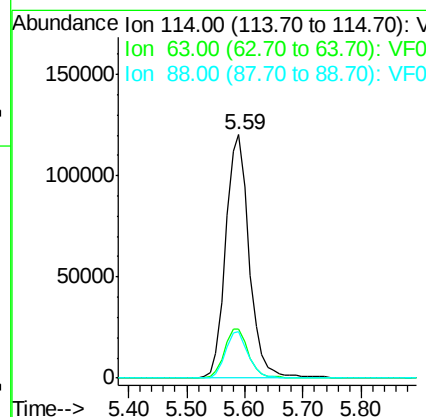
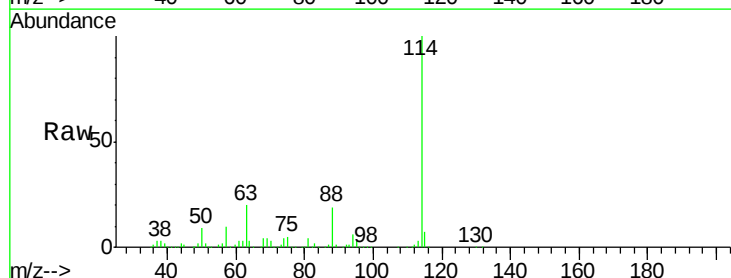
Tgt Ion: 114 Resp: 336376

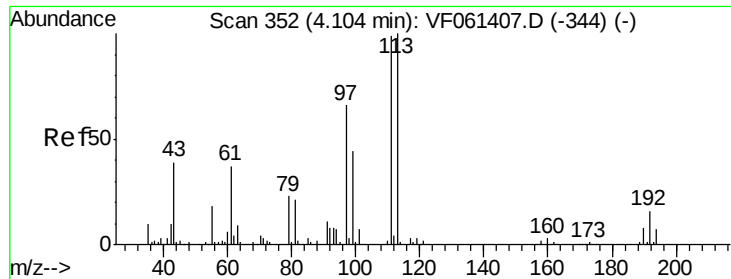
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

88 18.9 0.0 37.4





#35

Dibromofluoromethane

Concen: 49.204 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

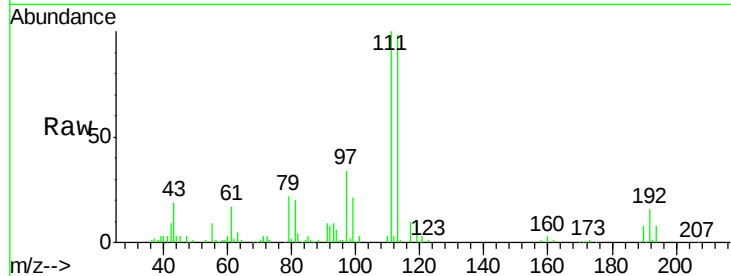
ClientSampleId :

VF0123SBS01

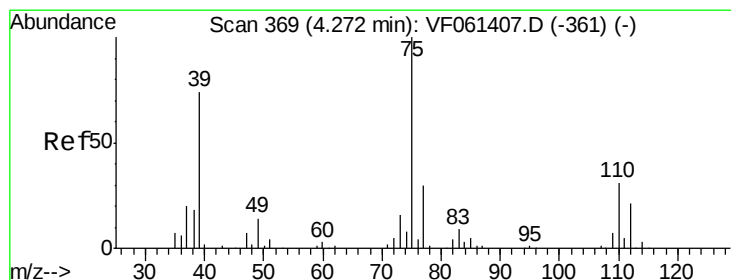
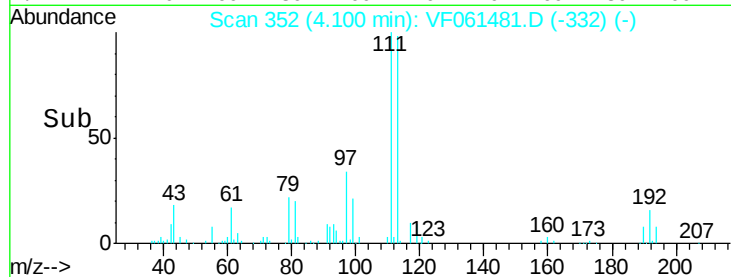
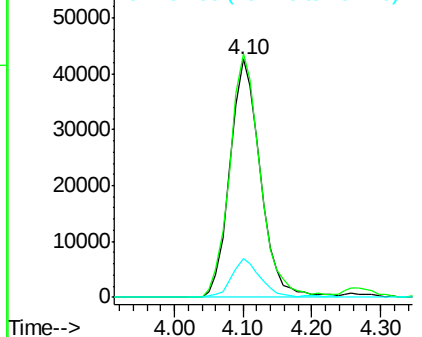
Tot Ion:	113	Resp:	130602
Ion Ratio	Lower	Upper	
113	100		
111	102.2	79.4	119.0
192	16.9	12.4	18.6

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Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 21.395 ug/l

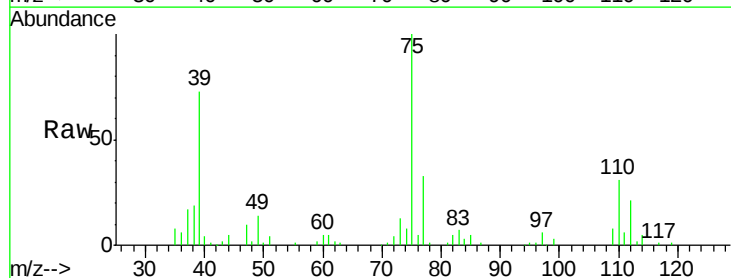
RT: 4.27 min Scan# 369

Delta R.T. -0.00 min

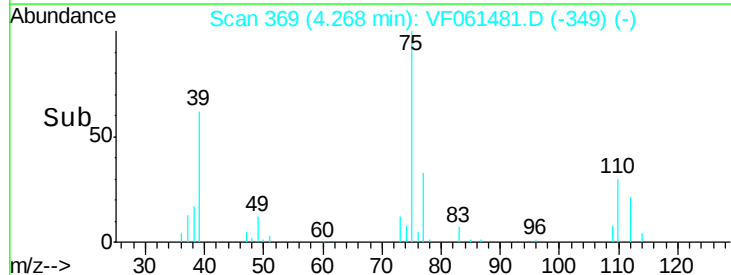
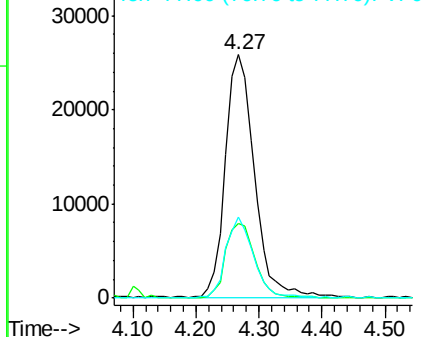
Lab File: VF061481.D

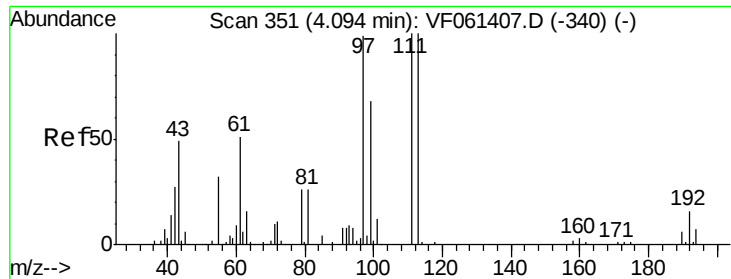
Acq: 23 Jan 2019 13:22

Tgt Ion:	75	Resp:	83443
Ion Ratio	Lower	Upper	
75	100		
110	30.5	15.8	47.3
77	33.1	24.0	36.0



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 110.00 (109.70 to 110.70): V
Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 22.597 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.02 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 43 Resp: 35229

Ion Ratio Lower Upper

43 100

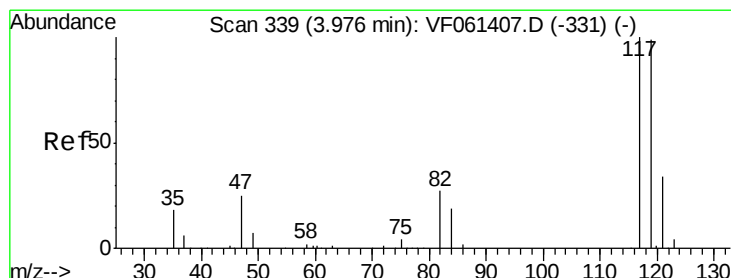
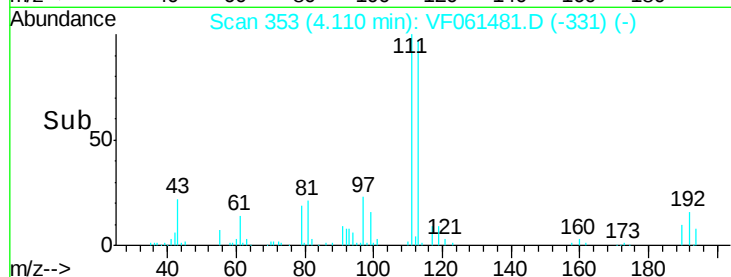
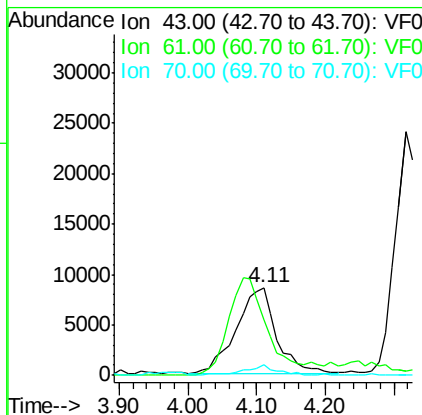
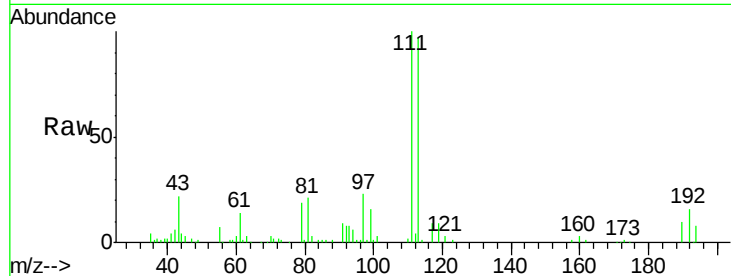
61 62.7 81.7 122.5#

70 11.8 6.2 9.2#

Manual Integrations
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#38

Carbon Tetrachloride

Concen: 18.672 ug/l

RT: 3.98 min Scan# 340

Delta R.T. 0.01 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

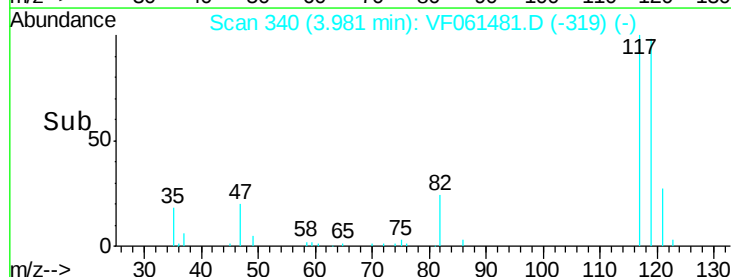
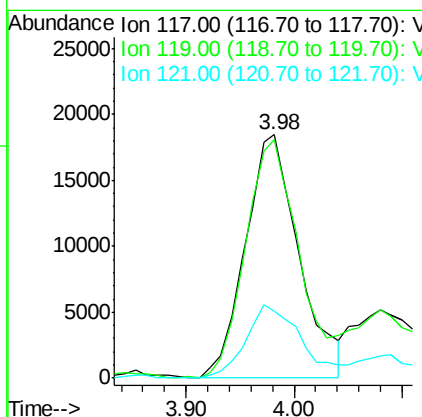
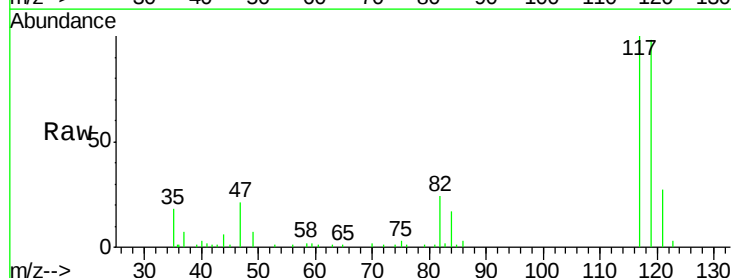
Tgt Ion: 117 Resp: 63664

Ion Ratio Lower Upper

117 100

119 97.9 79.0 118.6

121 27.3 27.0 40.6





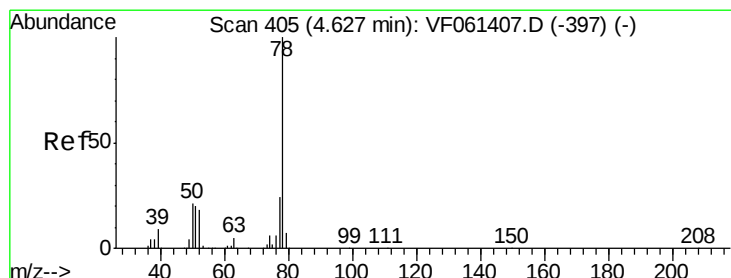
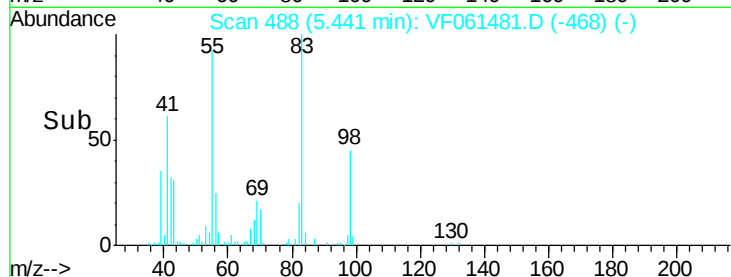
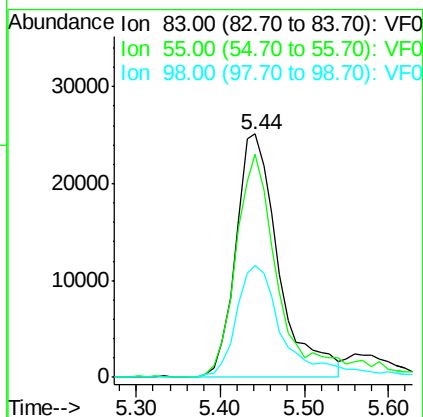
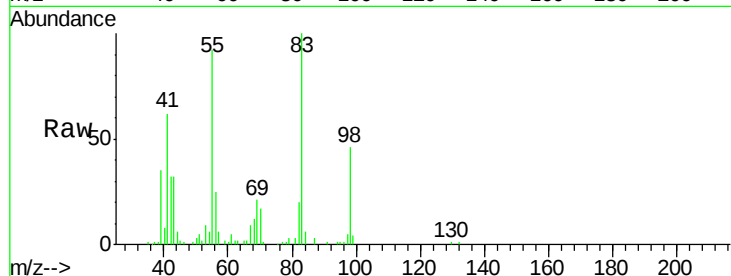
#39
Methylvlcvclohexane
Concen: 21.068 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	91.7	67.4	101.2
98	46.0	36.7	55.1

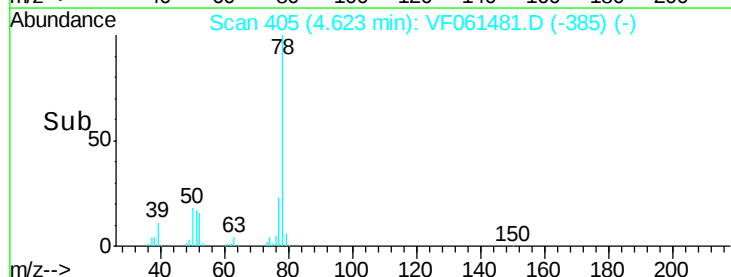
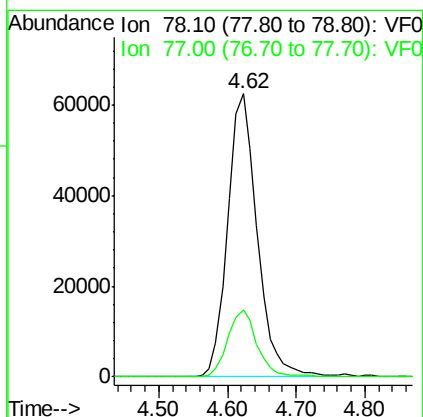
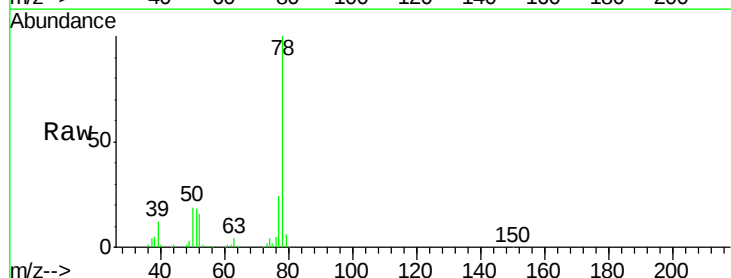
Manual Integrations
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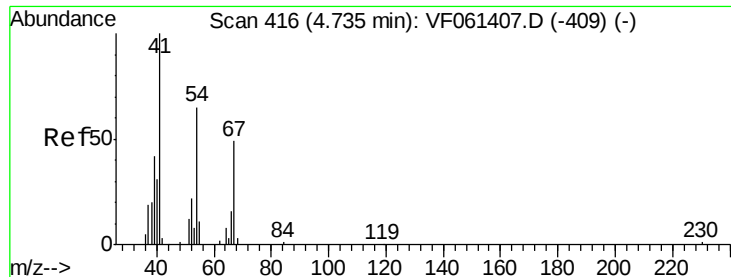
MMDadoda
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#40
Benzene
Concen: 21.468 ug/l
RT: 4.62 min Scan# 405
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6





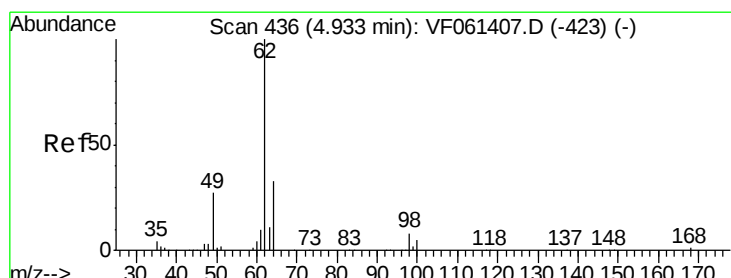
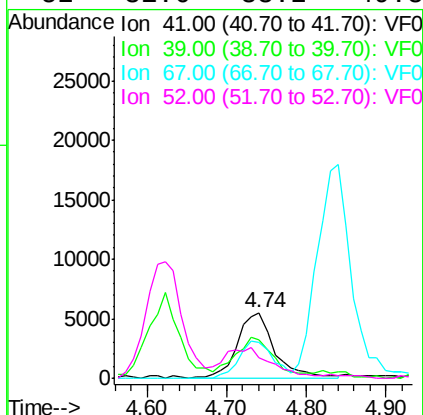
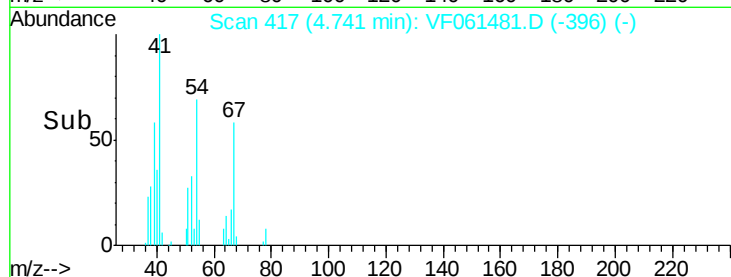
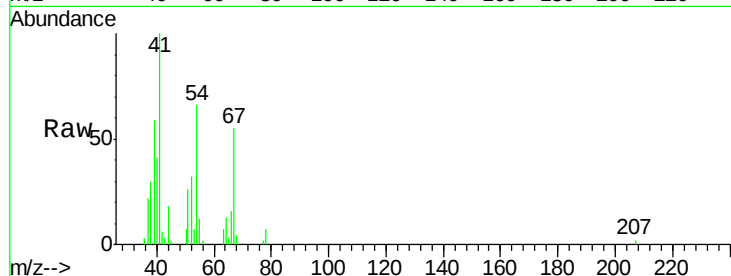
#41
Methacrylonitrile
Concen: 21.414 ug/l
RT: 4.74 min Scan# 417
Delta R.T. 0.01 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	41	Resp	17764
Ion	Ratio	Lower	Upper
41	100		
39	58.7	43.1	64.7
67	55.2	38.8	58.2
52	31.6	33.2	49.8

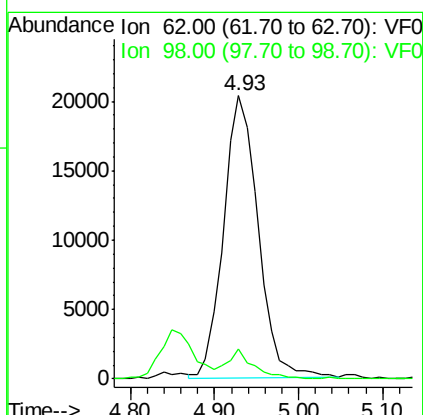
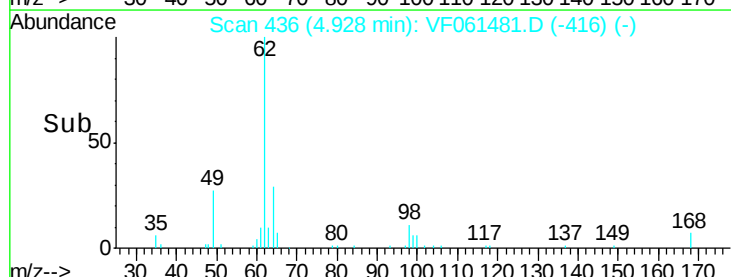
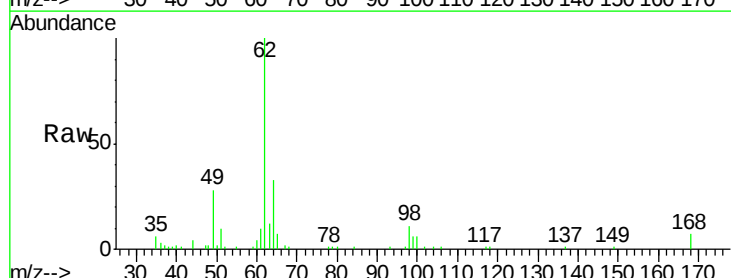
Manual Integrations
APPROVED

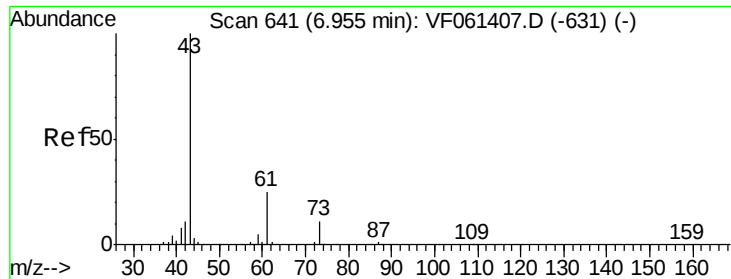
MMDadoda
1/24/2019 12:56:54 PM



#42
1,2-Dichloroethane
Concen: 18.718 ug/l
RT: 4.93 min Scan# 436
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion	62	Resp	57885
Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	17.0





#43

Isopropyl Acetate

Concen: 21.131 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.01 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

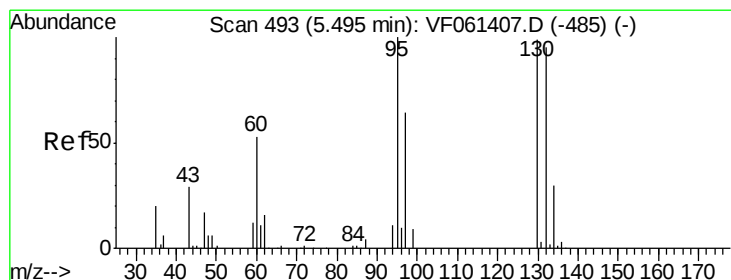
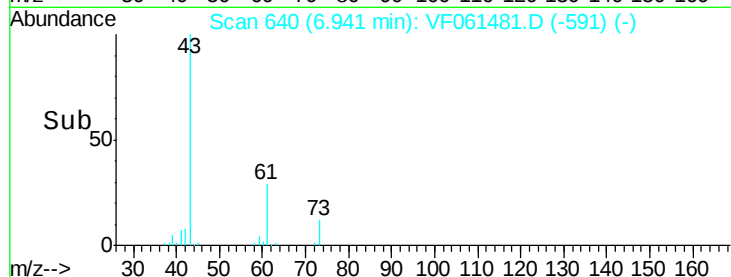
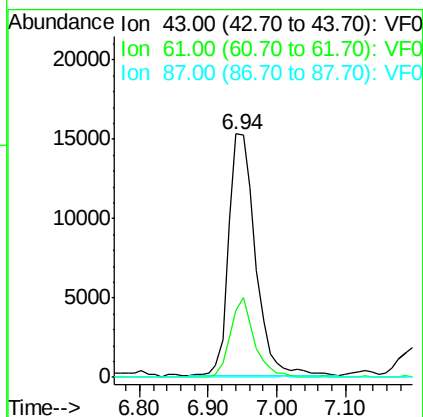
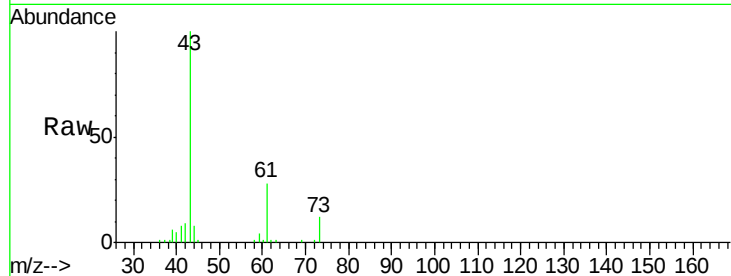
ClientSampleId :

VF0123SBS01

Tot Ion:	43	Resp:	41347
Ion	Ratio	Lower	Upper
43	100		
61	27.7	20.3	30.5
87	0.0	0.5	0.7#

Manual Integrations
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#44

Trichloroethene

Concen: 21.952 ug/l

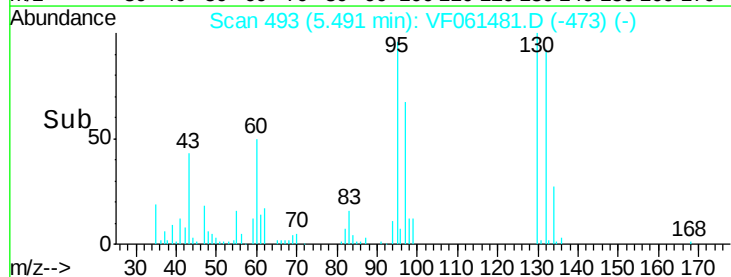
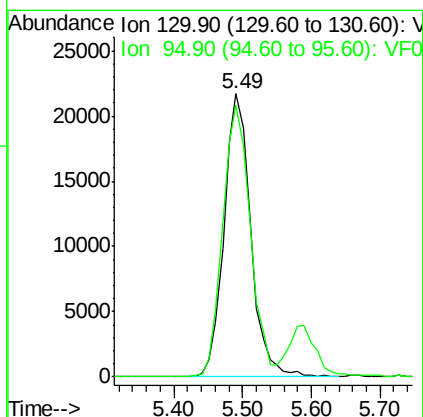
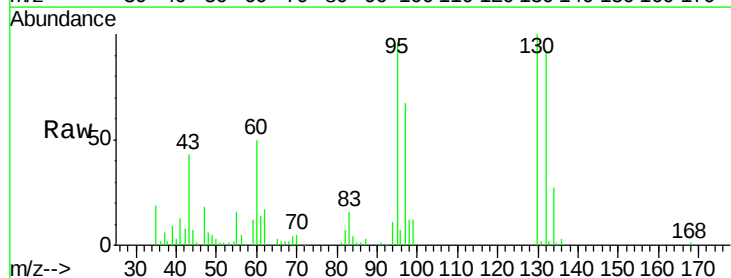
RT: 5.49 min Scan# 493

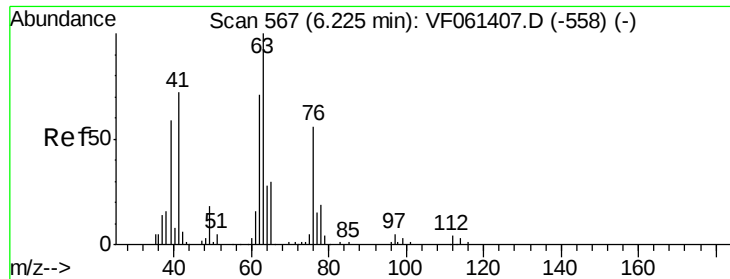
Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	130	Resp:	58441
Ion	Ratio	Lower	Upper
130	100		
95	96.0	0.0	202.8





#45

1,2-Dichloropropane

Concen: 21.334 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 63 Resp: 48592

Ion Ratio Lower Upper

63 100

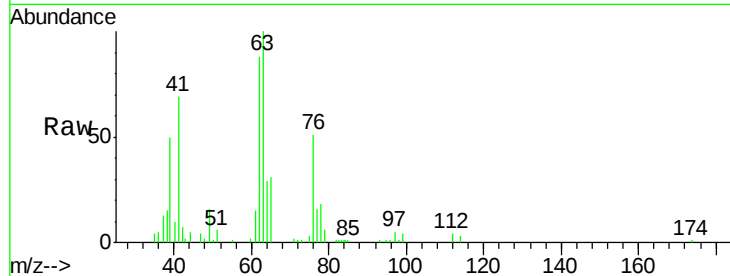
65 30.7 24.4 36.6

Manual Integrations

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

20000

15000

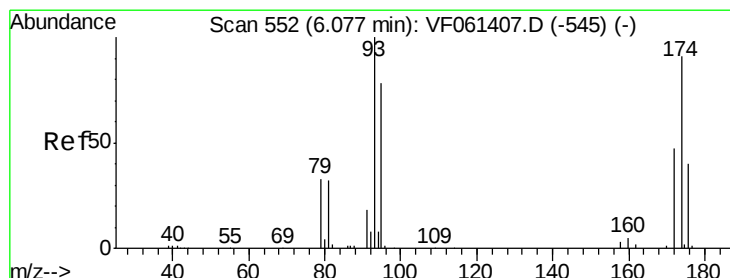
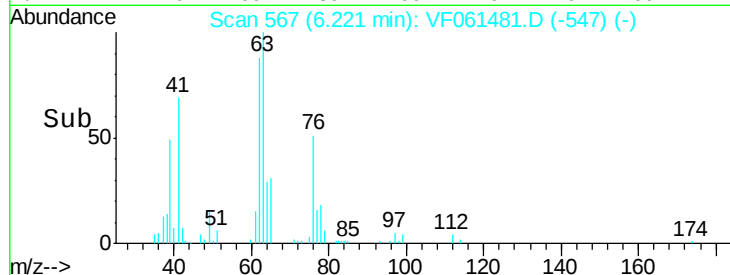
10000

5000

0

6.10 6.20 6.30

Time-->



#46

Dibromomethane

Concen: 20.193 ug/l

RT: 6.07 min Scan# 552

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

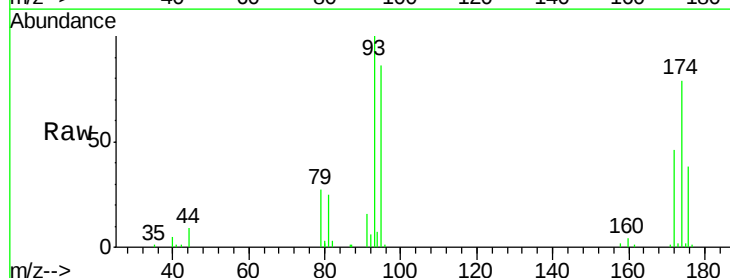
Tgt Ion: 93 Resp: 30583

Ion Ratio Lower Upper

93 100

95 85.8 62.1 93.1

174 78.9 74.6 111.8



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

15000

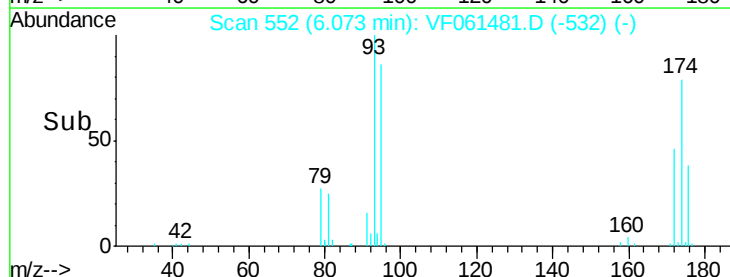
10000

5000

0

6.00 6.10 6.20

Time-->





#47

Bromodichloromethane

Concen: 20.608 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

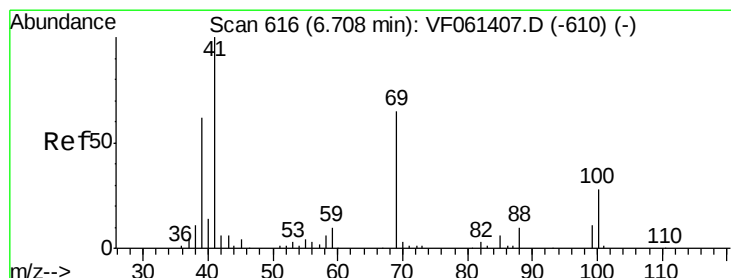
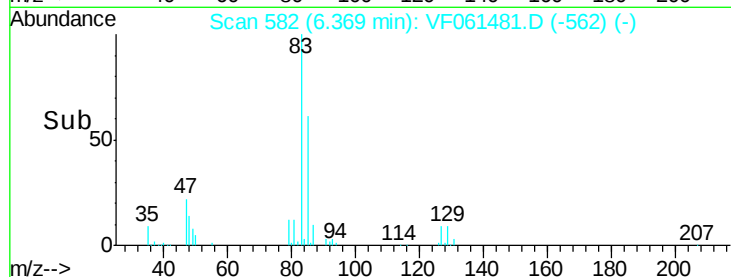
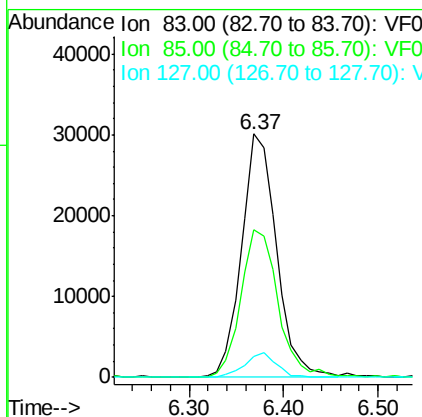
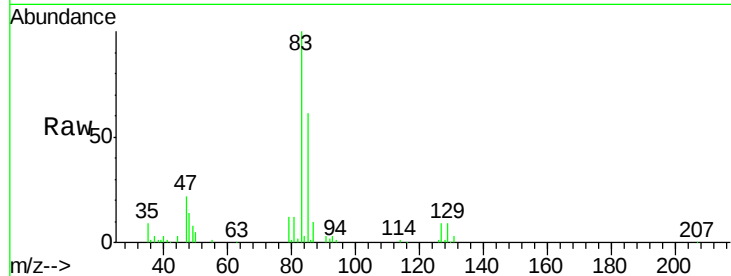
ClientSampleId :

VF0123SBS01

Tot Ion:	83	Resp:	77222
Ion	Ratio	Lower	Upper
83	100		
85	60.9	53.0	79.4
127	8.6	6.9	10.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.953 ug/l

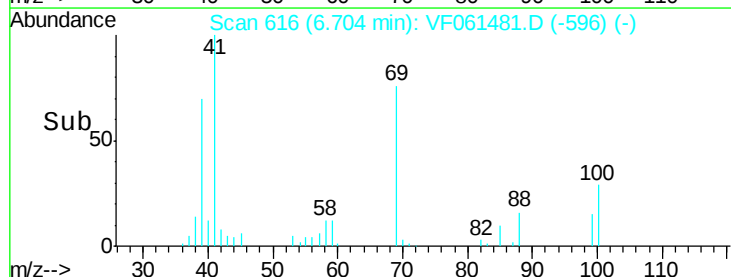
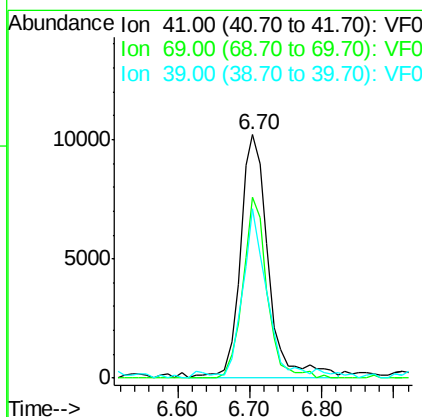
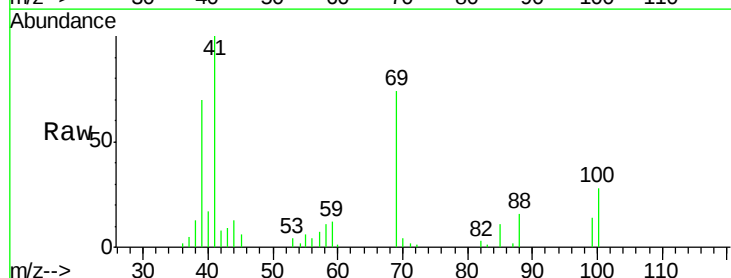
RT: 6.70 min Scan# 616

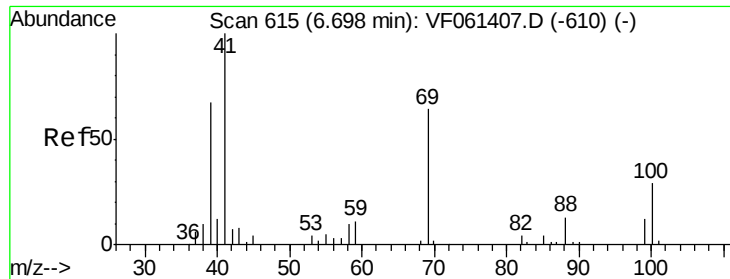
Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	41	Resp:	27530
Ion	Ratio	Lower	Upper
41	100		
69	74.2	51.7	77.5
39	69.8	49.2	73.8





#49

1,4-Dioxane

Concen: 454.062 ug/l

RT: 6.70 min Scan# 616

Delta R.T. 0.01 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

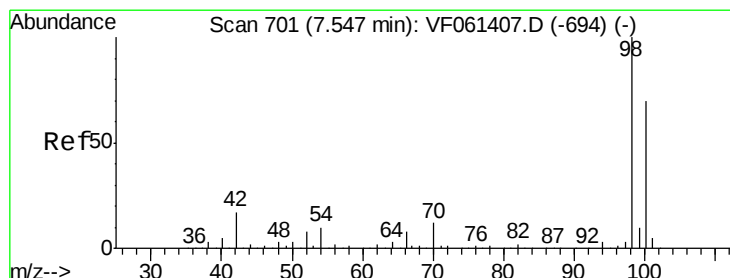
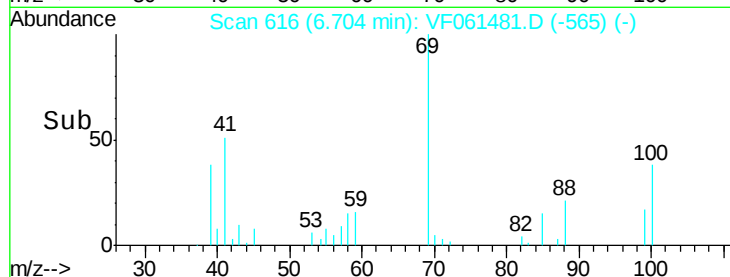
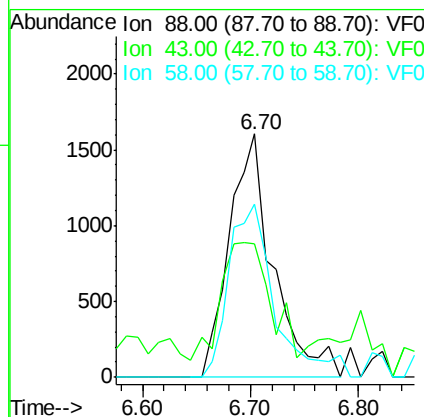
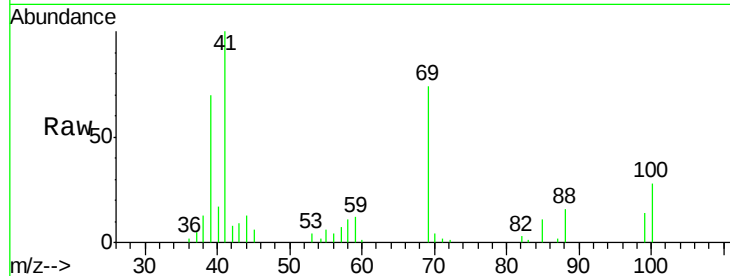
ClientSampleId :

VF0123SBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	54.6	55.5	83.3#
58	71.3	59.9	89.9

Manual Integrations
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#50

Toluene-d8

Concen: 48.934 ug/l

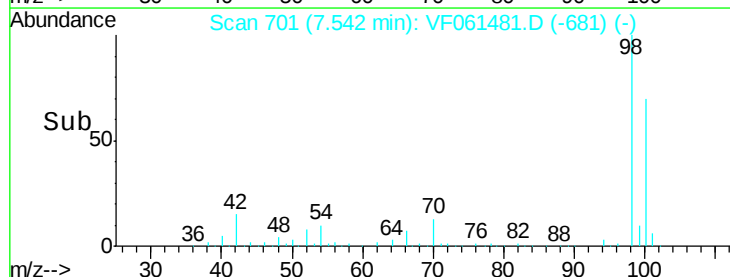
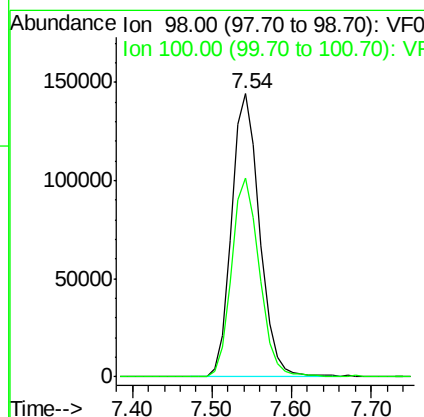
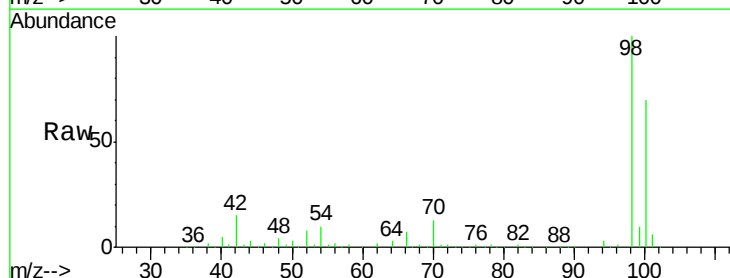
RT: 7.54 min Scan# 701

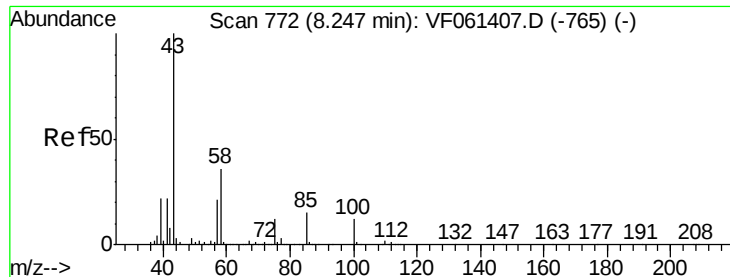
Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.4	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 112.871 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 43 Resp: 162360

Ion Ratio Lower Upper

43 100

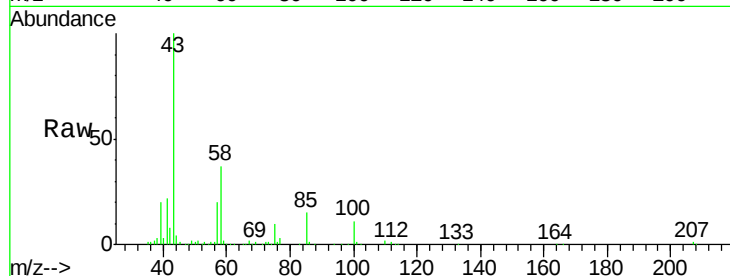
58 36.8 28.8 43.2

Manual Integrations

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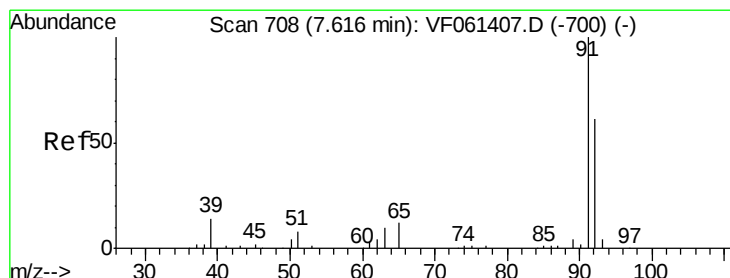
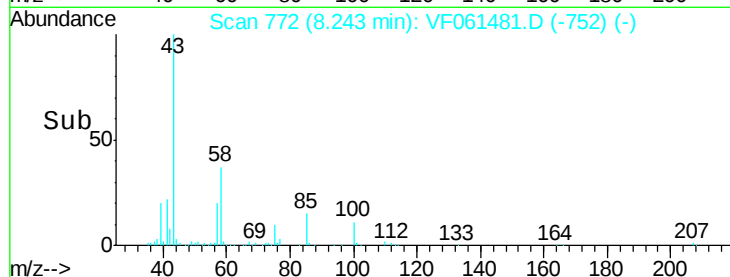
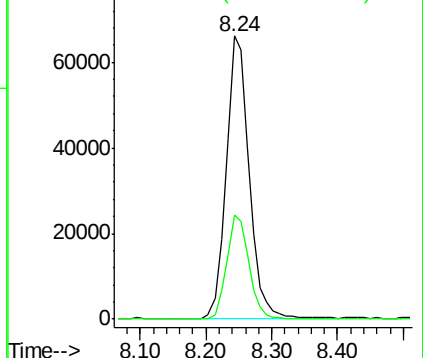
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.214 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061481.D

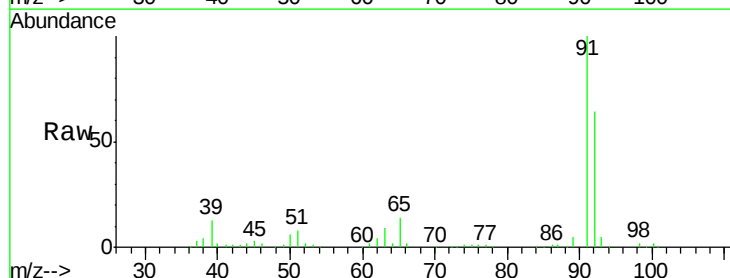
Acq: 23 Jan 2019 13:22

Tgt Ion: 92 Resp: 115526

Ion Ratio Lower Upper

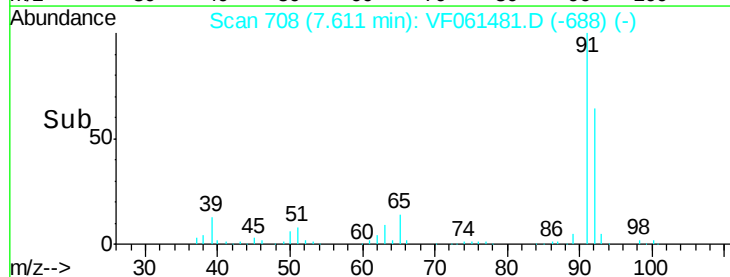
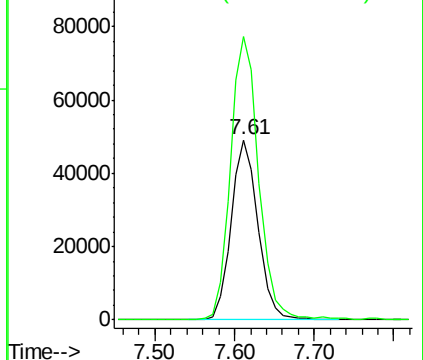
92 100

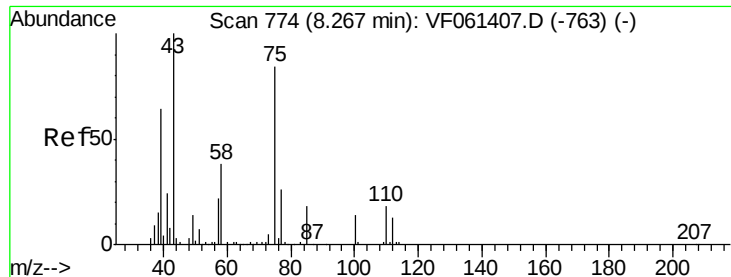
91 157.3 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 20.735 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 75 Resp: 61698

Ion Ratio Lower Upper

75 100

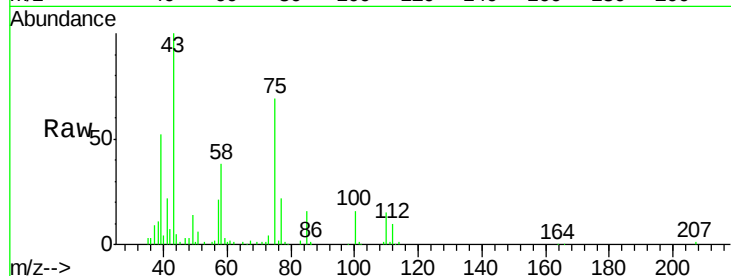
77 32.3 24.4 36.6

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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.26

25000

20000

15000

10000

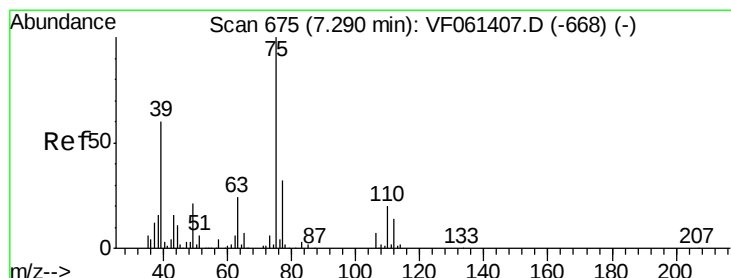
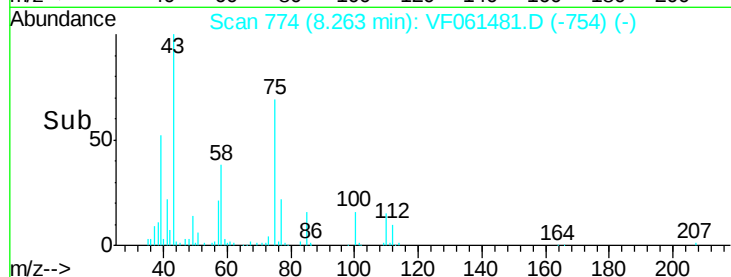
5000

0

8.20

8.30

Time-->



#54

cis-1,3-Dichloropropene

Concen: 21.366 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

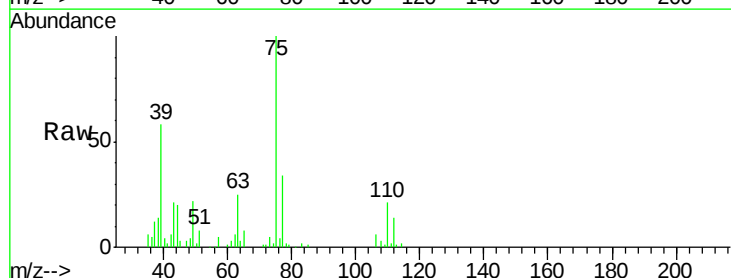
Tgt Ion: 75 Resp: 79466

Ion Ratio Lower Upper

75 100

77 34.0 25.4 38.0

39 57.8 47.8 71.8



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

7.29

40000

30000

20000

10000

0

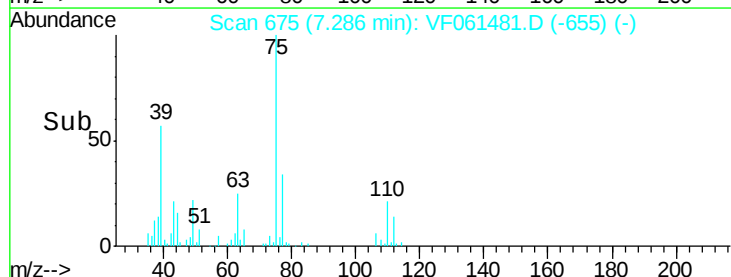
7.20

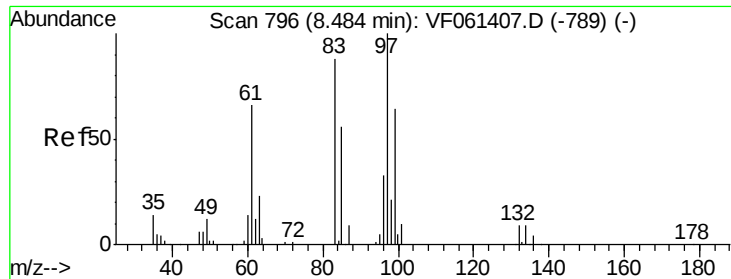
7.30

7.40

7.50

Time-->





#55

1,1,2-Trichloroethane

Concen: 21.375 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

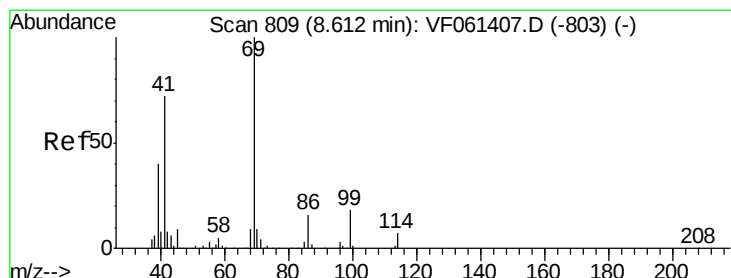
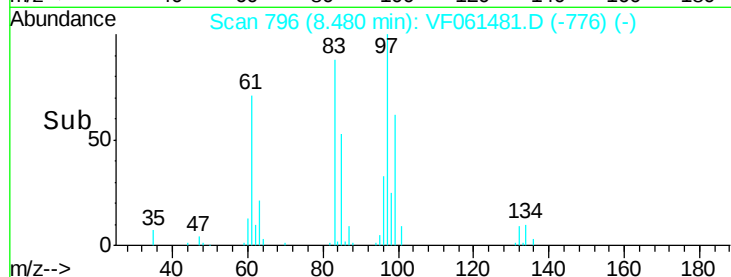
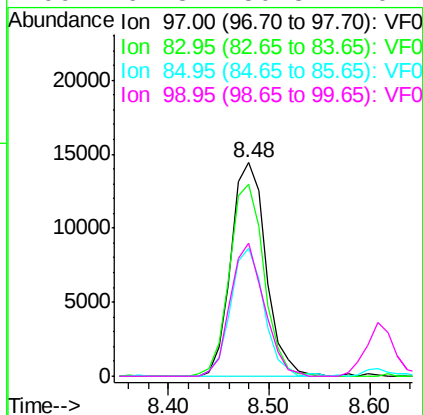
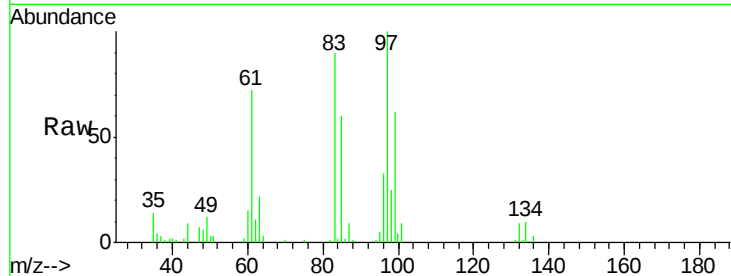
ClientSampleId :

VF0123SBS01

Tot Ion:	97	Resp:	34690
Ion	Ratio	Lower	Upper
97	100		
83	90.1	70.4	105.6
85	60.2	44.7	67.1
99	62.3	50.8	76.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 19.145 ug/l

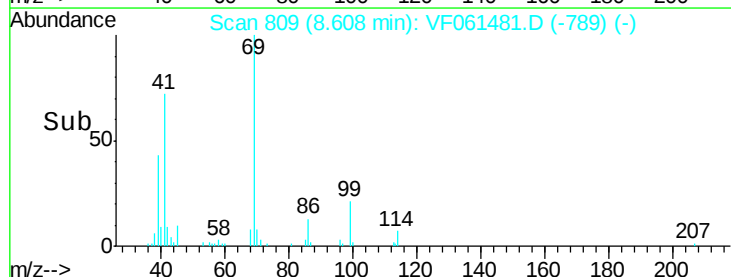
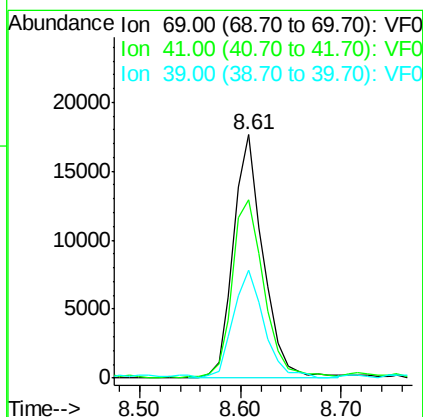
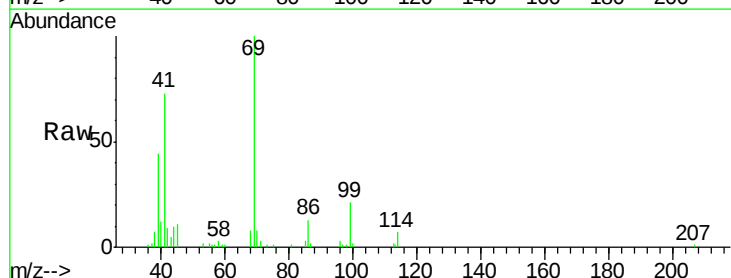
RT: 8.61 min Scan# 809

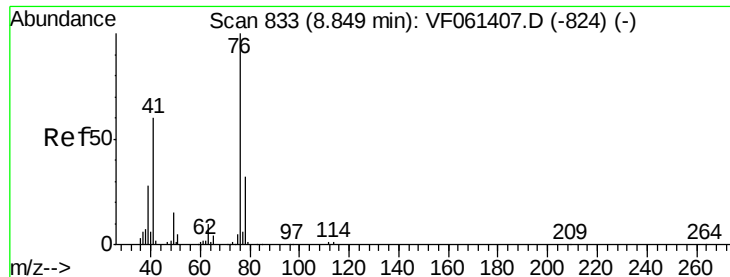
Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	69	Resp:	36149
Ion	Ratio	Lower	Upper
69	100		
41	73.1	57.5	86.3
39	44.5	32.0	48.0





#57

1,3-Dichloropropane

Concen: 19.819 ug/l

RT: 8.84 min Scan# 833

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 76 Resp: 60289

Ion Ratio Lower Upper

76 100

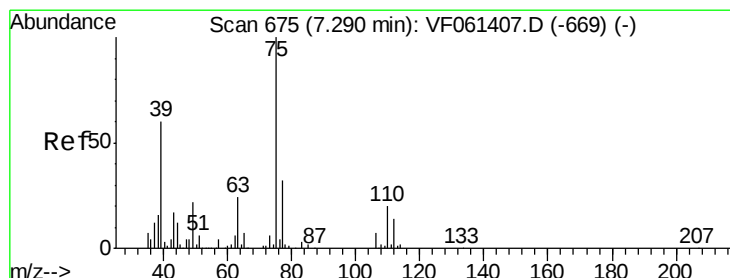
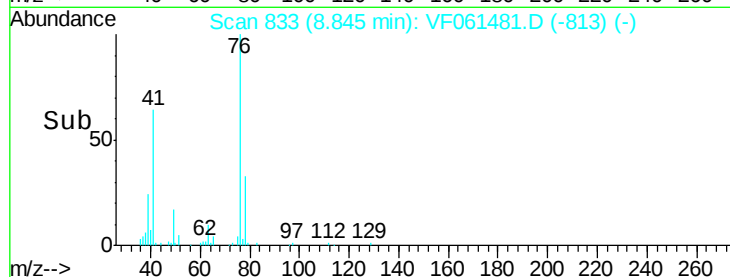
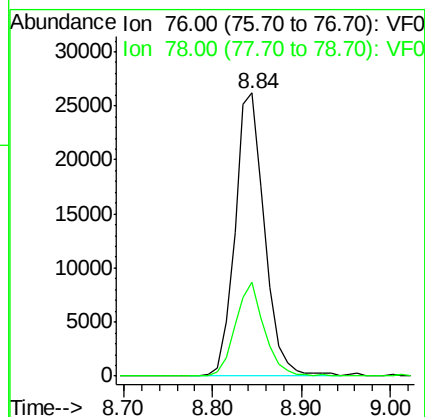
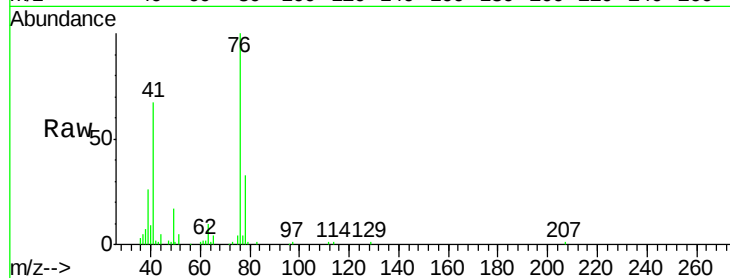
78 33.4 25.3 37.9

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 119.349 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061481.D

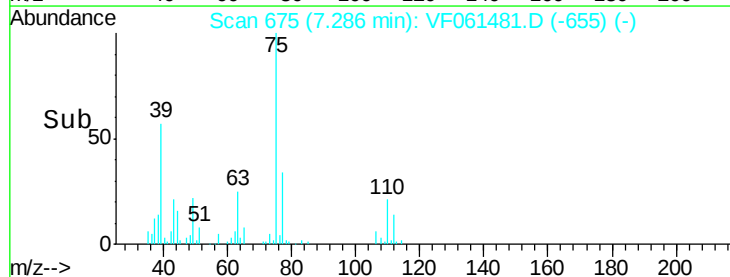
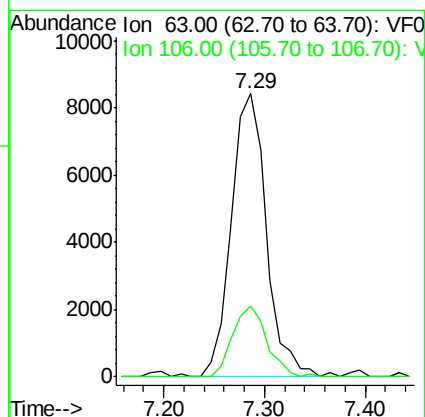
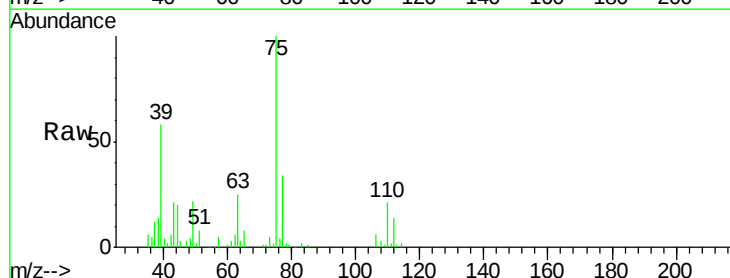
Acq: 23 Jan 2019 13:22

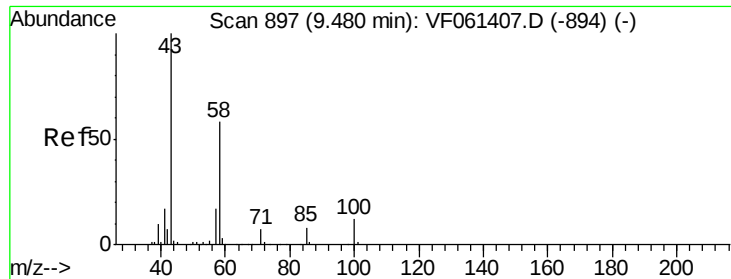
Tgt Ion: 63 Resp: 20431

Ion Ratio Lower Upper

63 100

106 25.0 21.9 32.9





#59

2-Hexanone

Concen: 125.551 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 43 Resp: 125935

Ion Ratio Lower Upper

43 100

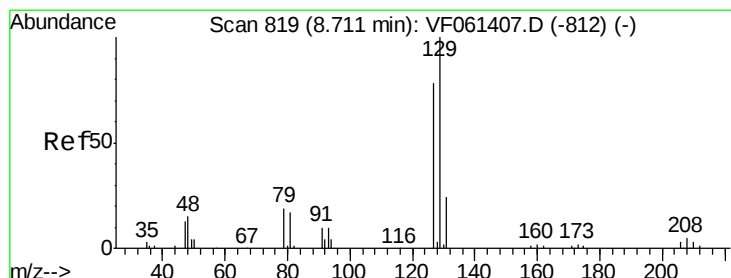
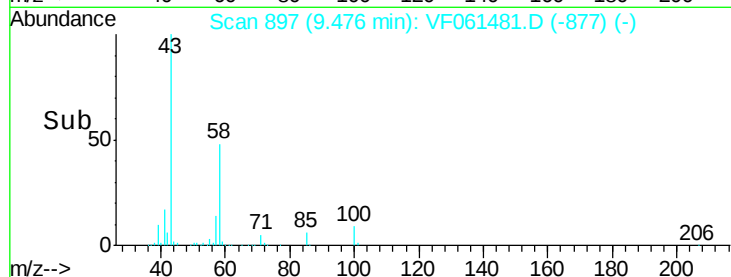
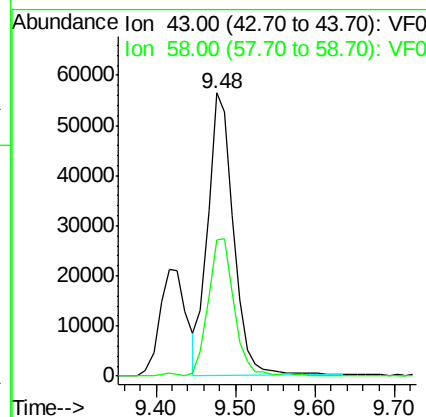
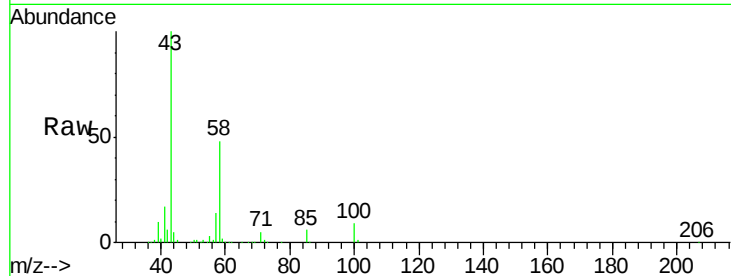
58 48.3 25.9 77.6

Manual Integrations

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#60

Dibromochloromethane

Concen: 20.140 ug/l

RT: 8.71 min Scan# 819

Delta R.T. -0.00 min

Lab File: VF061481.D

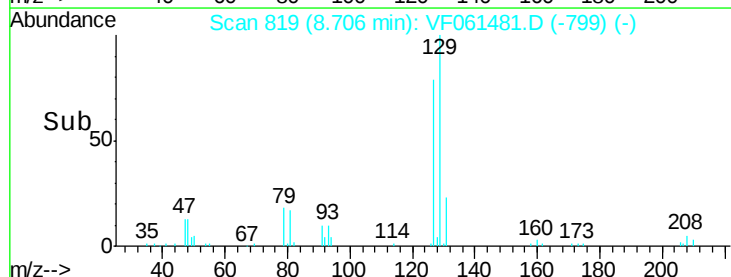
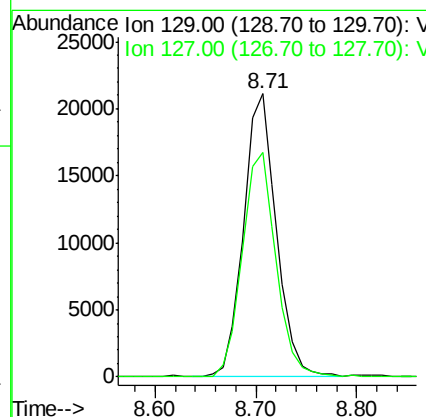
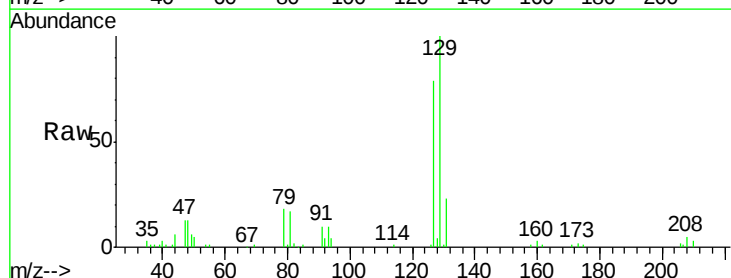
Acq: 23 Jan 2019 13:22

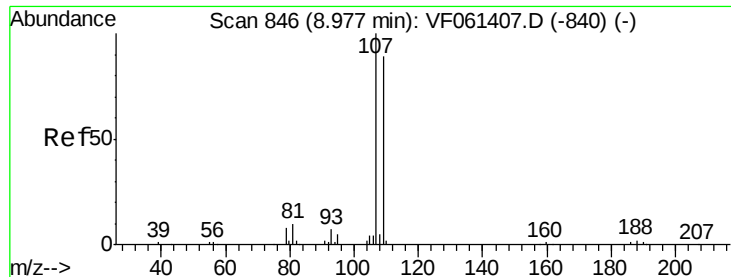
Tgt Ion: 129 Resp: 47784

Ion Ratio Lower Upper

129 100

127 79.2 39.1 117.2





#61

1,2-Dibromoethane

Concen: 20.433 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion: 107 Resp: 37962

Ion Ratio Lower Upper

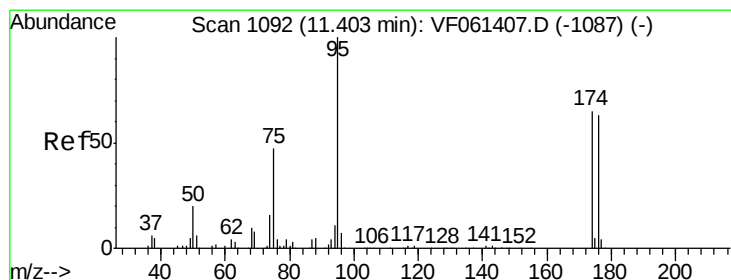
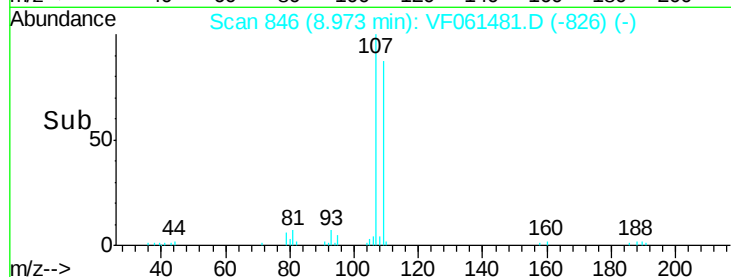
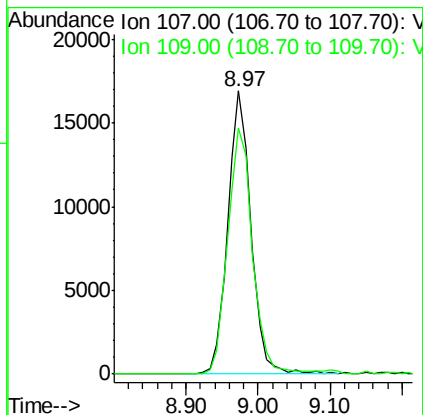
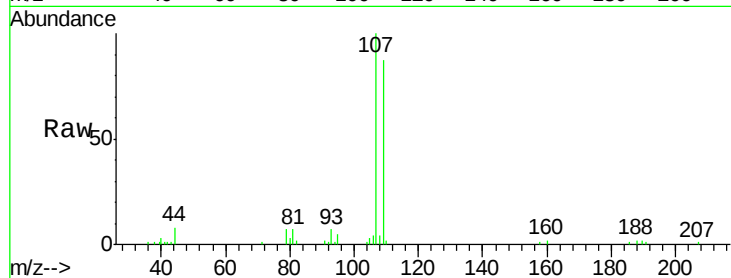
107 100

109 87.1 70.8 106.2

Manual Integrations
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#62

4-Bromofluorobenzene

Concen: 44.342 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

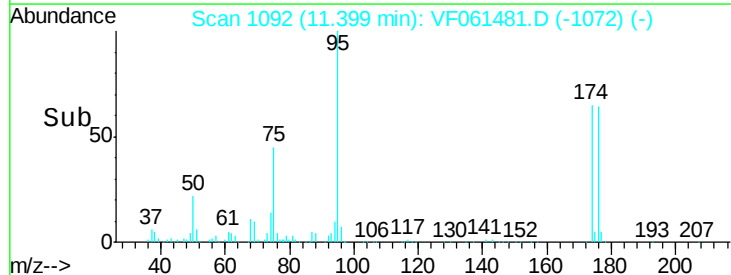
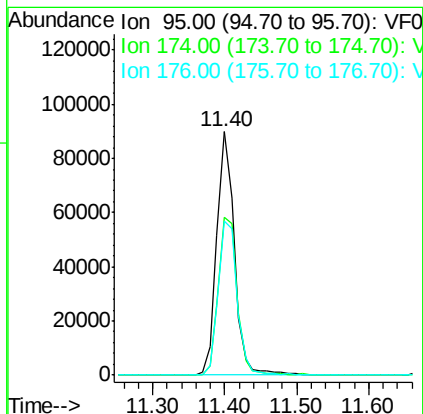
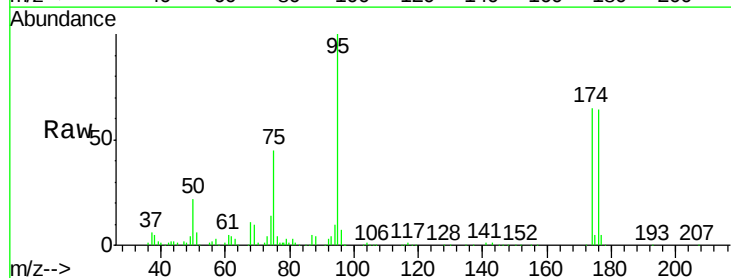
Tgt Ion: 95 Resp: 150665

Ion Ratio Lower Upper

95 100

174 64.6 0.0 130.4

176 63.5 0.0 126.2





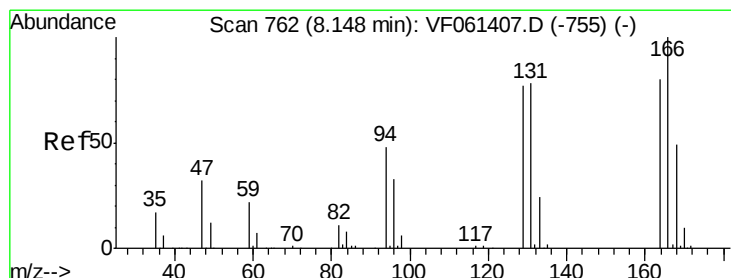
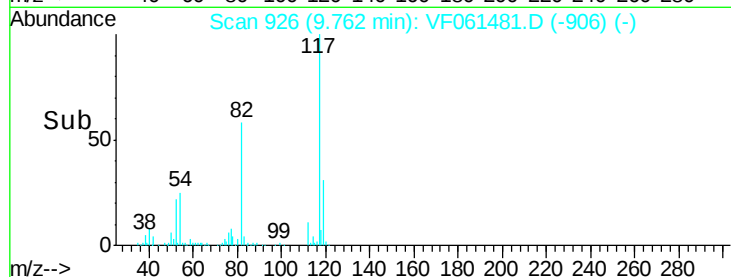
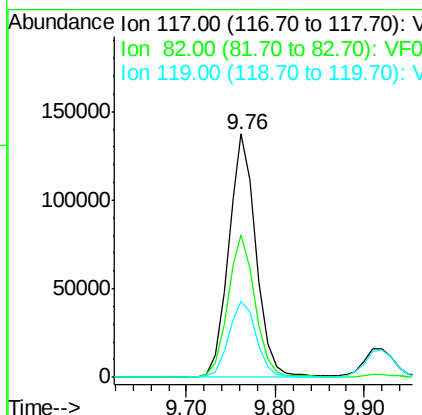
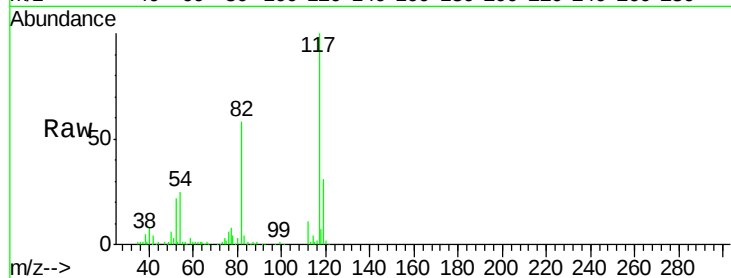
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.5	46.4	69.6
119	31.2	27.2	40.8

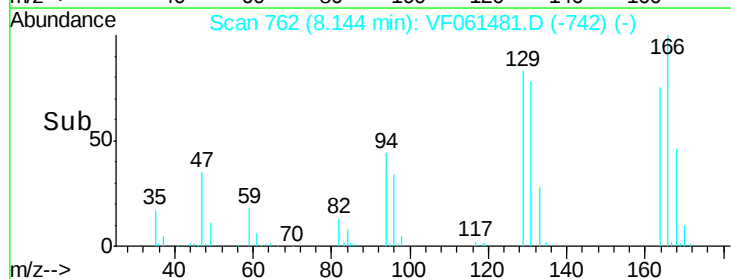
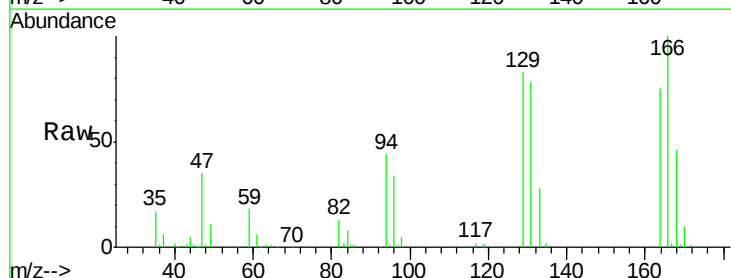
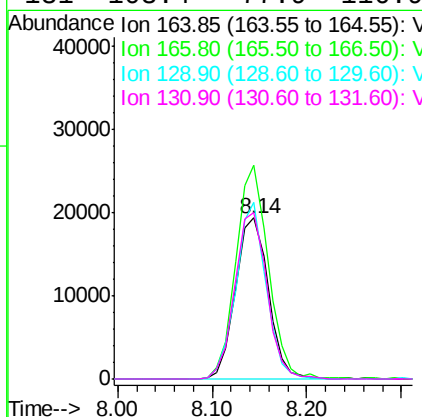
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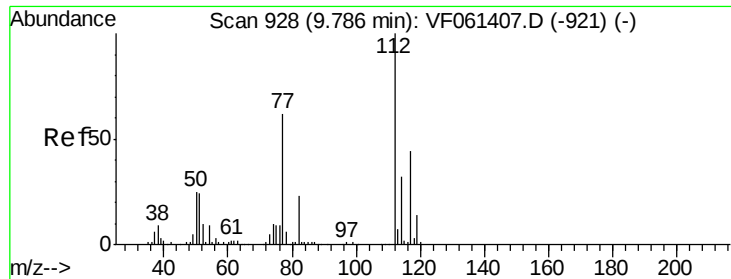
MMDadoda
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#64
Tetrachloroethene
Concen: 20.967 ug/l
RT: 8.14 min Scan# 762
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.9	99.6	149.4
129	110.3	76.4	114.6
131	103.4	77.9	116.9





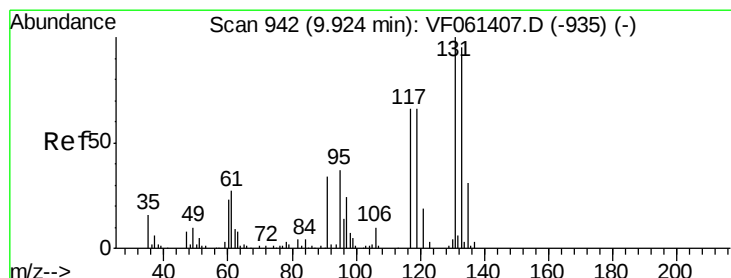
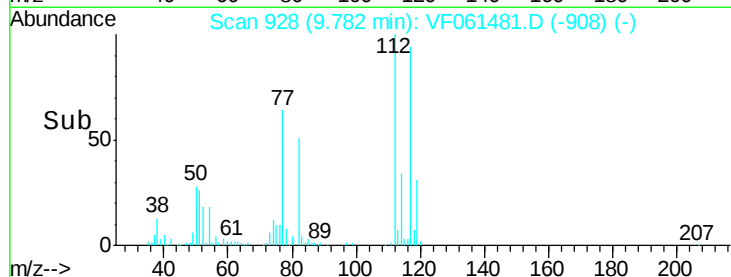
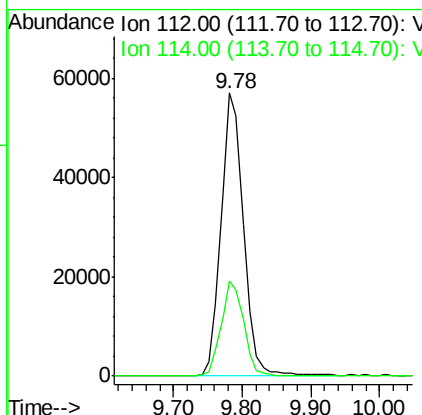
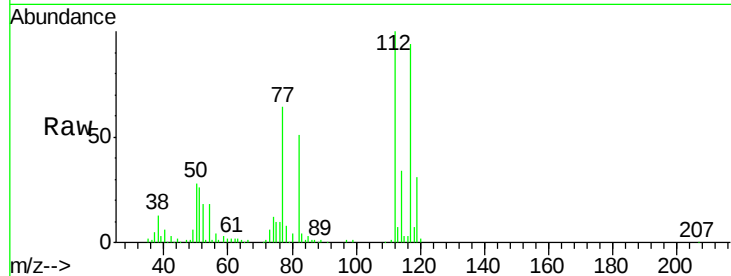
#65
Chlorobenzene
Concen: 21.470 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.8	25.4	38.0

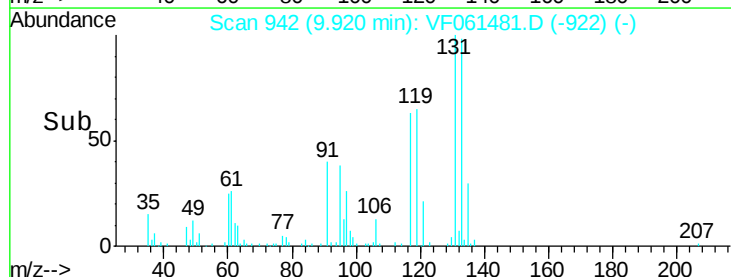
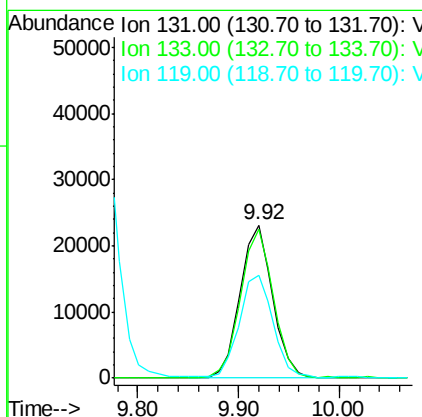
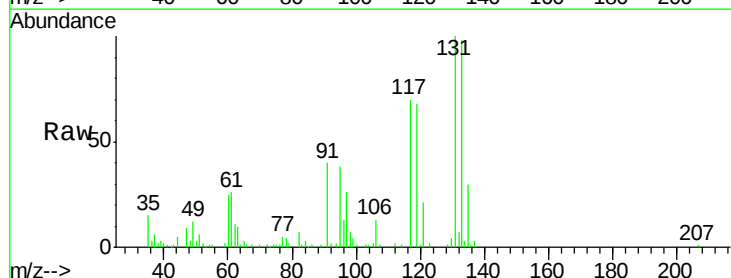
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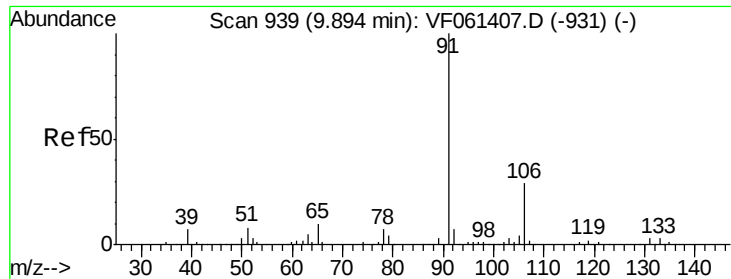
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.668 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.6	47.4	142.2
119	67.5	33.1	99.3





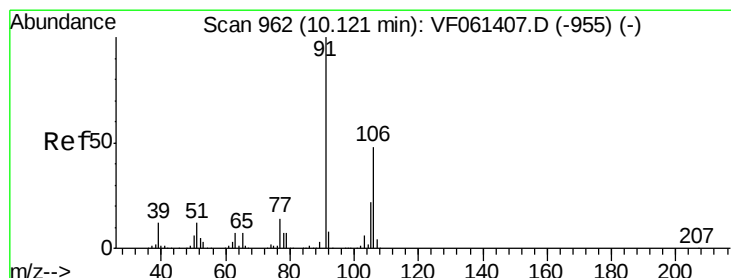
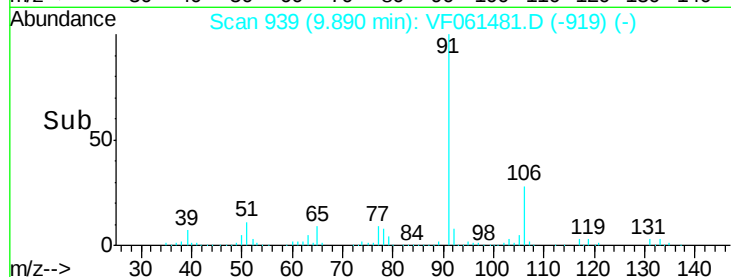
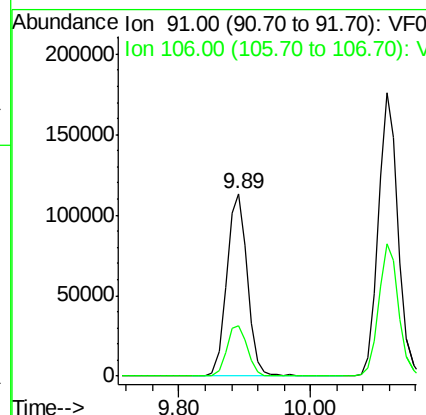
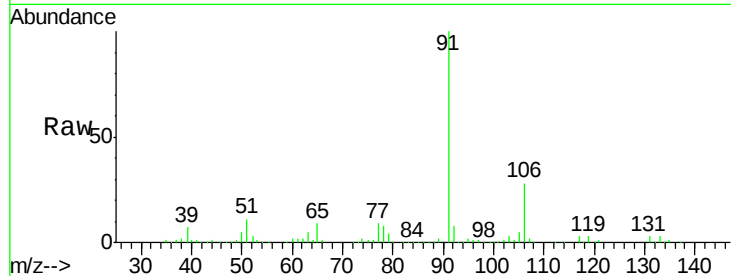
#67
Ethyl Benzene
Concen: 22.643 ug/l
RT: 9.89 min Scan# 939
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion: 91 Resp: 248884
Ion Ratio Lower Upper
91 100
106 27.5 23.1 34.7

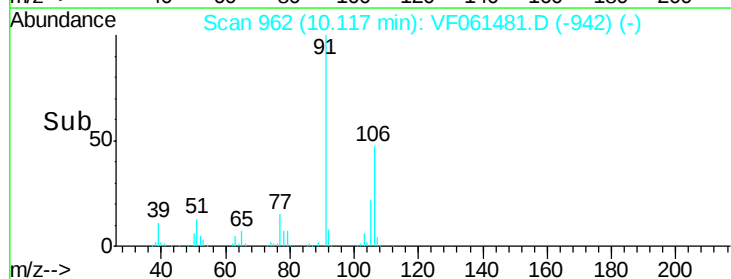
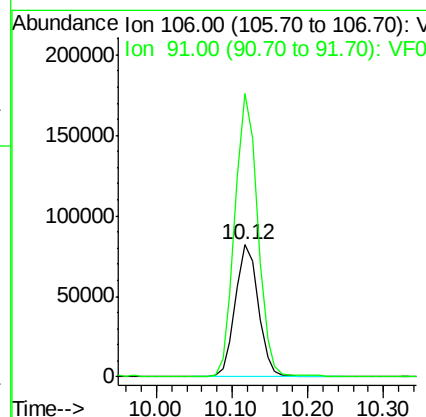
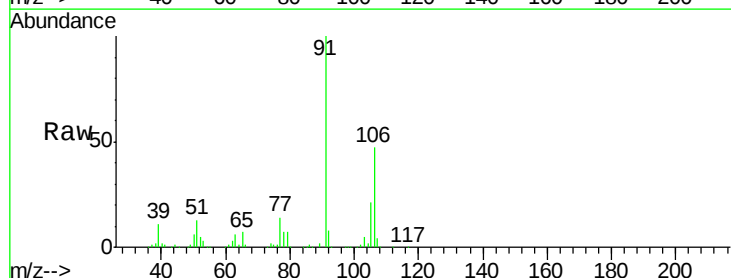
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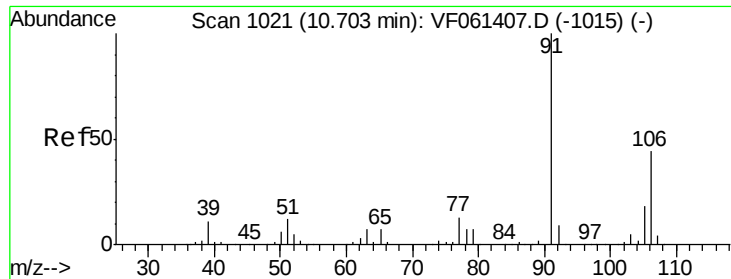
MMDadoda
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#68
m/p-Xylenes
Concen: 44.021 ug/l
RT: 10.12 min Scan# 962
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion: 106 Resp: 174033
Ion Ratio Lower Upper
106 100
91 214.6 166.2 249.4





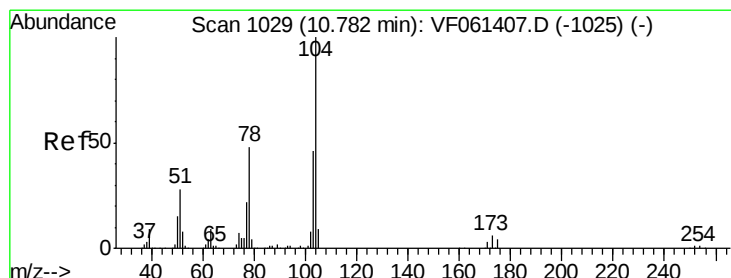
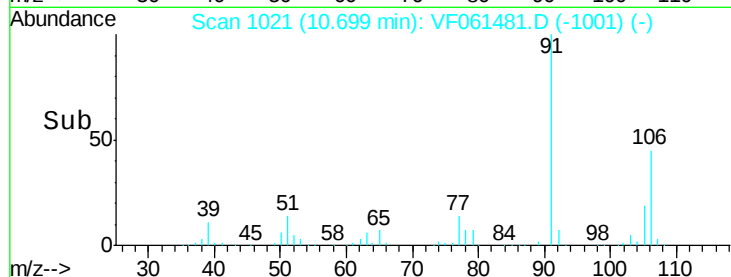
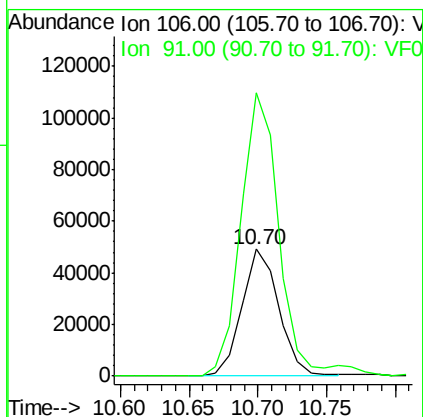
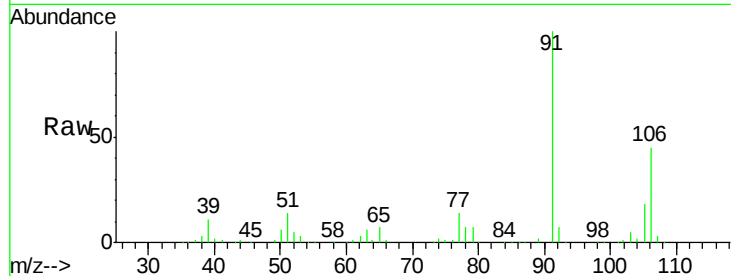
#69
o-Xylene
Concen: 21.517 ug/l
RT: 10.70 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion:106 Resp: 92196
Ion Ratio Lower Upper
106 100
91 223.3 113.3 339.8

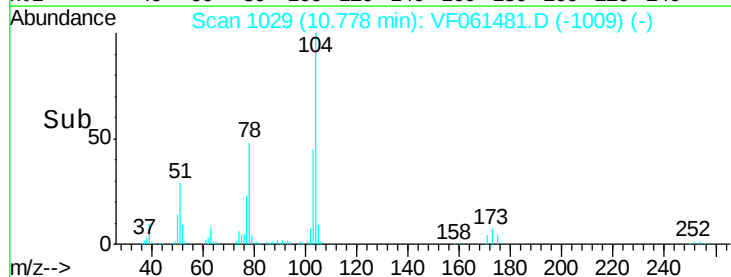
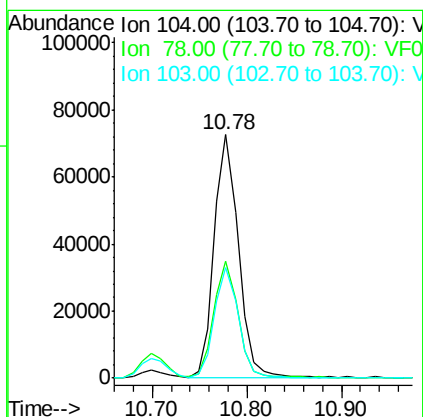
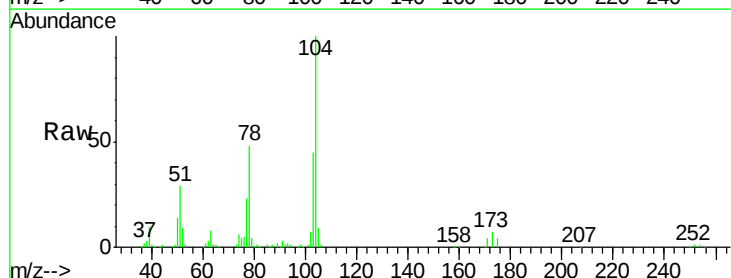
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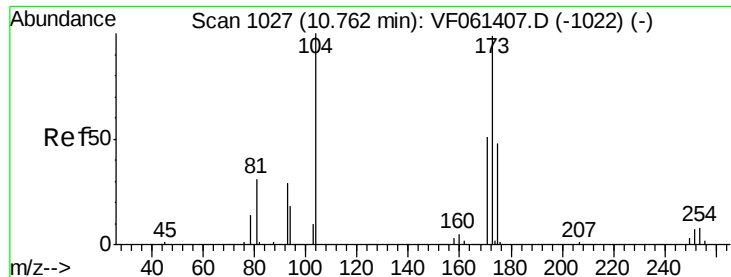
MMDadoda
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#70
Styrene
Concen: 22.158 ug/l
RT: 10.78 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion:104 Resp: 129958
Ion Ratio Lower Upper
104 100
78 48.2 38.8 58.2
103 45.5 37.0 55.6





#71

Bromoform

Concen: 21.645 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion:173 Resp: 23308

Ion Ratio Lower Upper

173 100

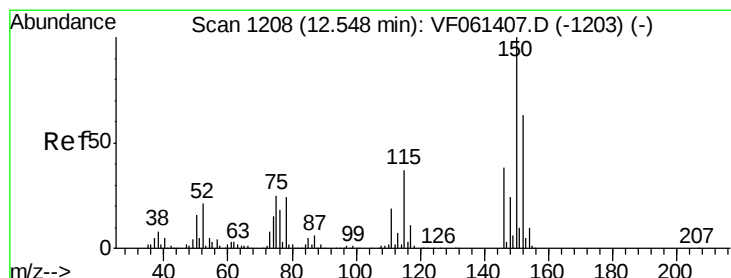
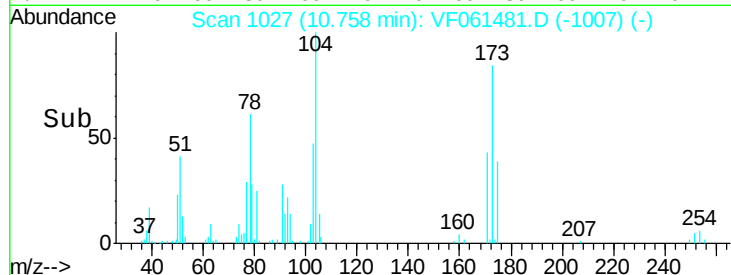
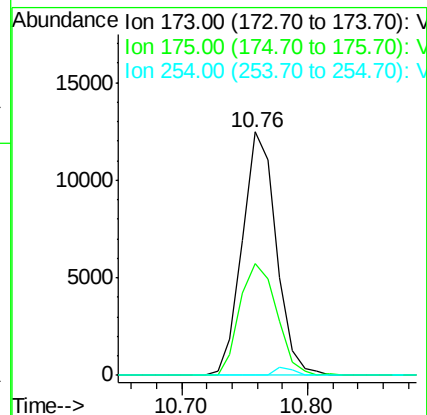
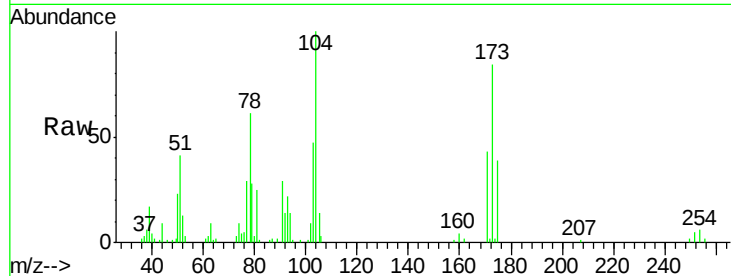
175 45.7 24.1 72.4

254 0.0 0.0 0.0

Manual Integrations
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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

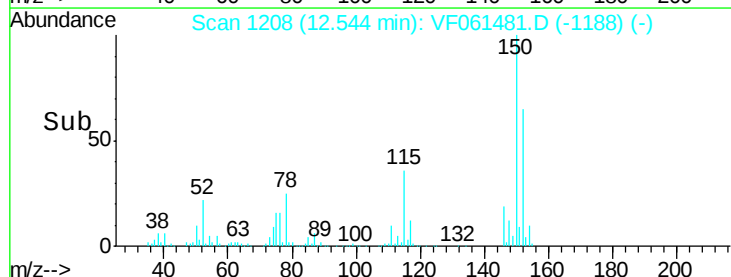
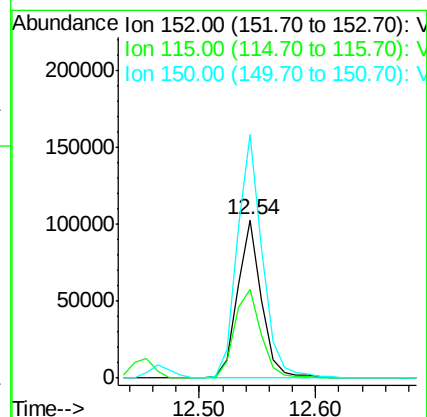
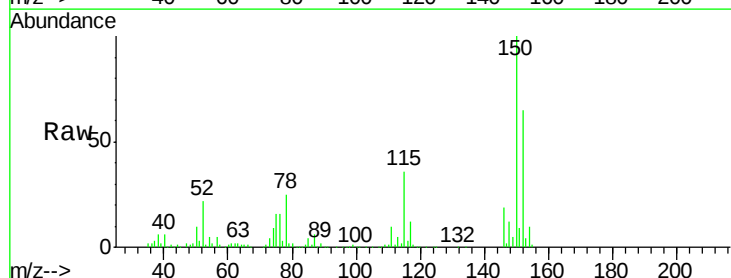
Tgt Ion:152 Resp: 147235

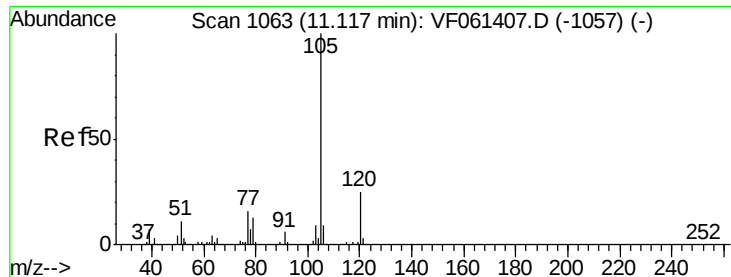
Ion Ratio Lower Upper

152 100

115 56.2 30.0 90.0

150 153.9 0.0 321.4





#73

Isopropylbenzene

Concen: 24.063 ug/l

RT: 11.11 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VF0123SBS01

Tot Ion:105 Resp: 288154

Ion Ratio Lower Upper

105 100

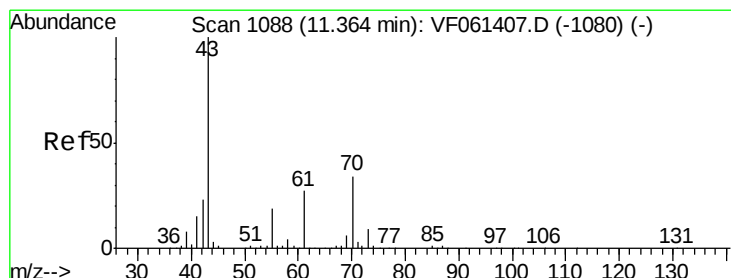
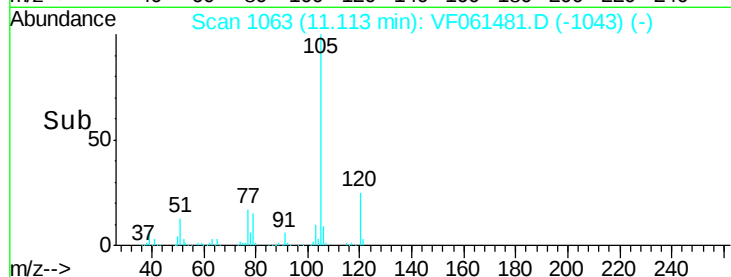
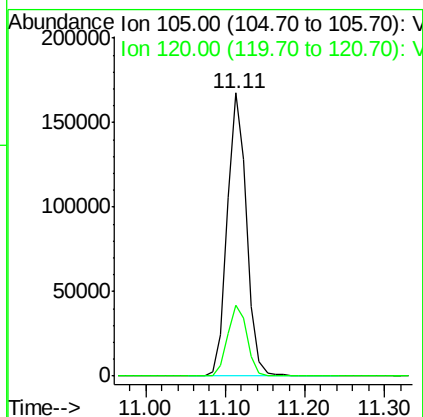
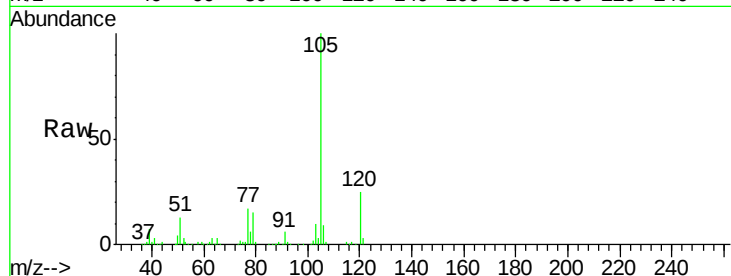
120 25.2 12.6 37.8

Manual Integrations

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#74

N-ethyl acetate

Concen: 25.442 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion: 43 Resp: 72043

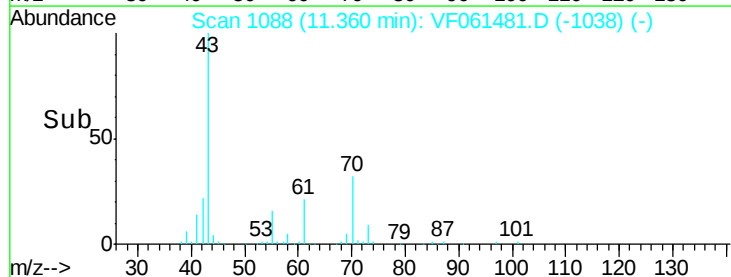
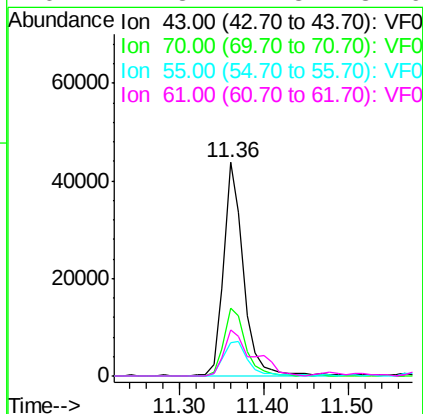
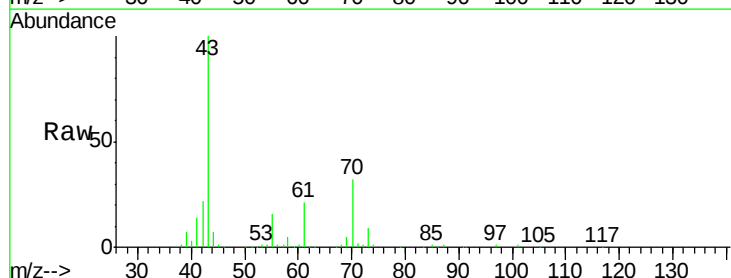
Ion Ratio Lower Upper

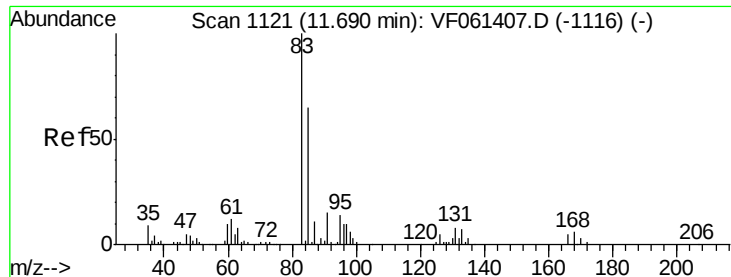
43 100

70 31.9 27.6 41.4

55 15.7 15.4 23.2

61 21.3 21.8 32.6#





#75

1,1,2,2-Tetrachloroethane

Concen: 23.379 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

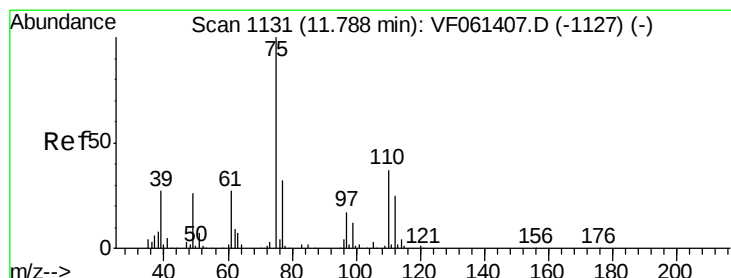
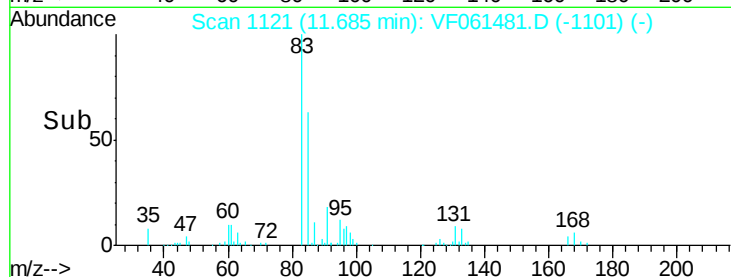
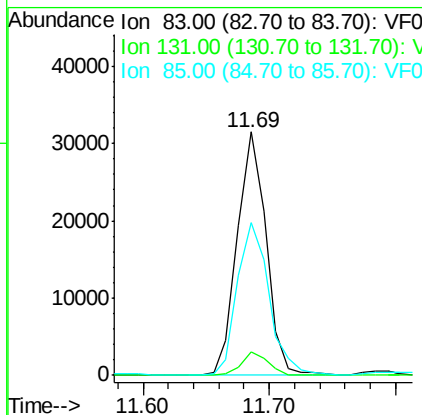
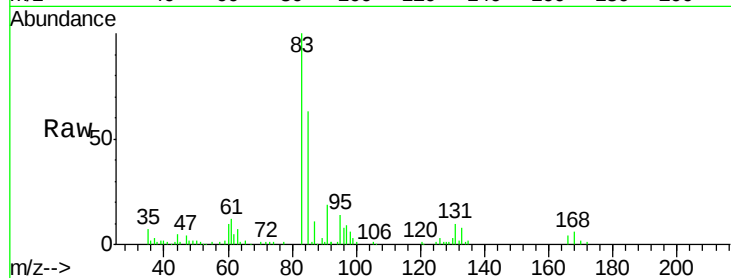
ClientSampleId :

VF0123SBS01

Tot Ion:	83	Resp:	49874
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.0	12.2
85	62.8	32.7	98.1

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#76

1,2,3-Trichloropropane

Concen: 23.202 ug/l

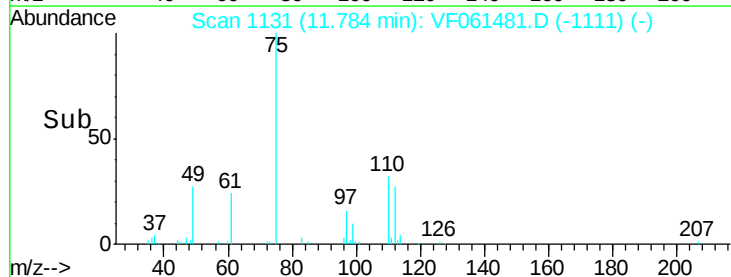
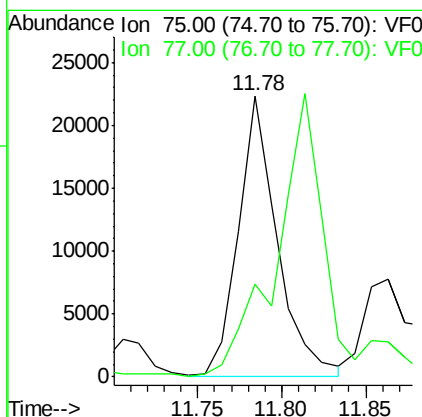
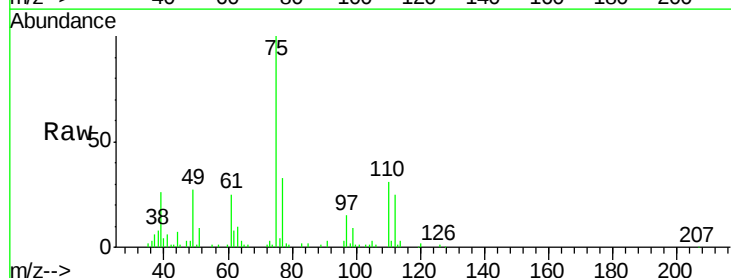
RT: 11.78 min Scan# 1131

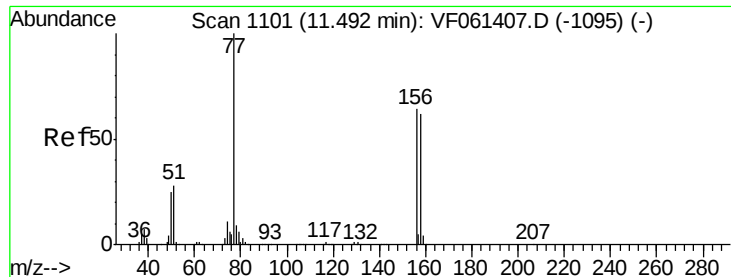
Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	75	Resp:	35565
Ion Ratio	Lower	Upper	
75	100		
77	32.8	16.1	48.3





#77

Bromobenzene

Concen: 22.017 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

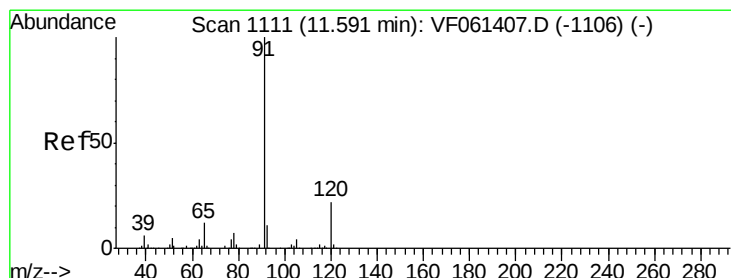
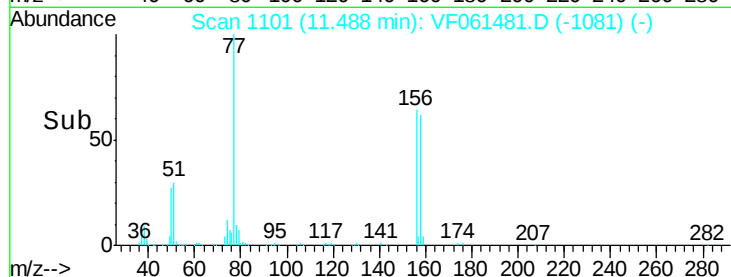
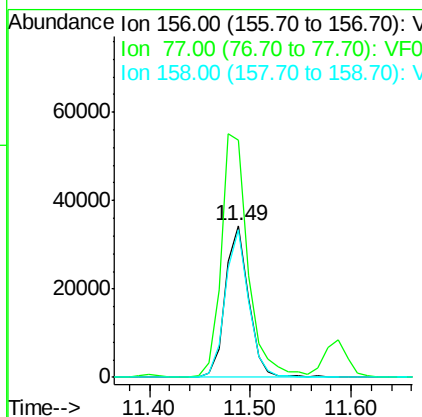
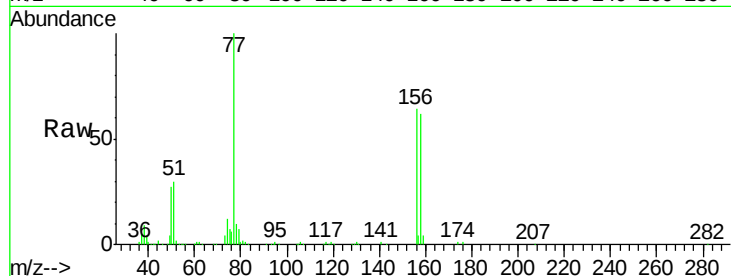
ClientSampleId :

VF0123SBS01

Tot Ion:	156	Resp:	55680
Ion	Ratio	Lower	Upper
156	100		
77	156.6	78.3	234.9
158	97.2	48.9	146.7

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#78

n-propylbenzene

Concen: 21.743 ug/l

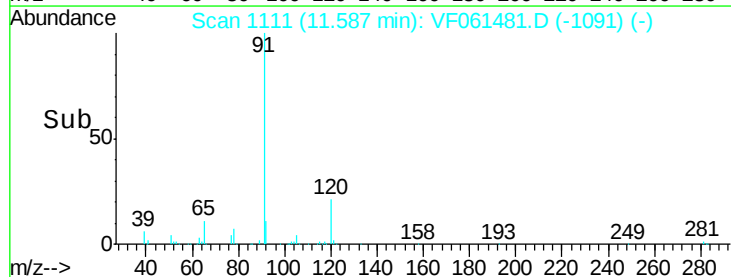
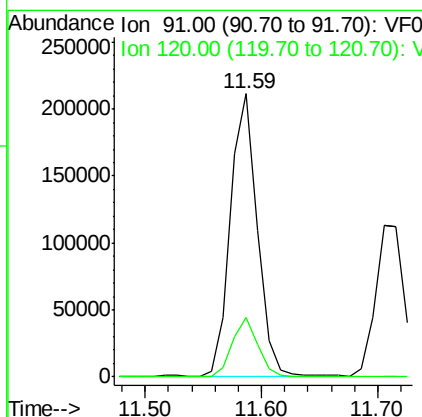
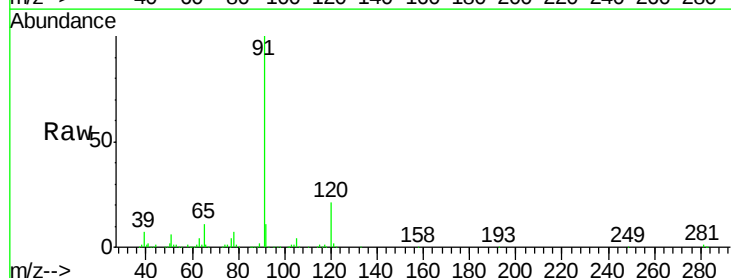
RT: 11.59 min Scan# 1111

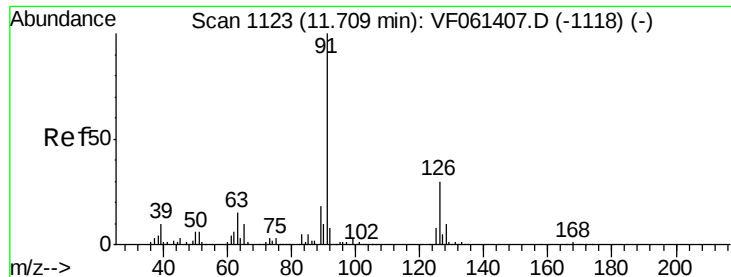
Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	91	Resp:	338176
Ion	Ratio	Lower	Upper
91	100		
120	21.0	10.9	32.6





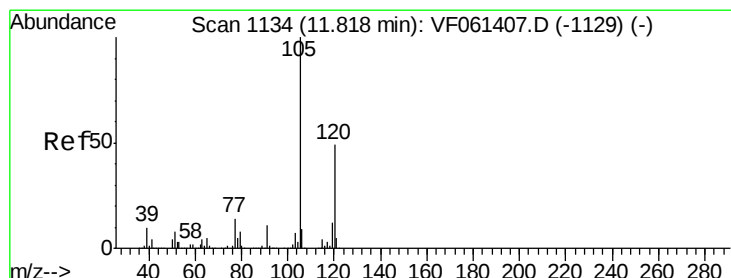
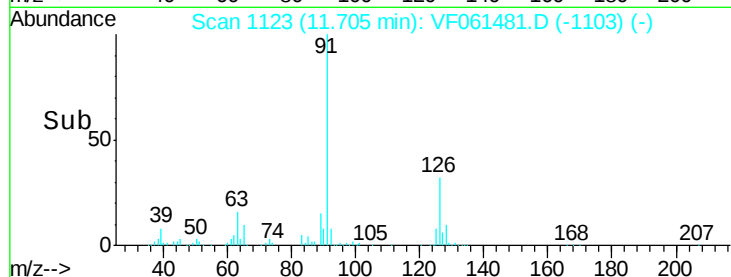
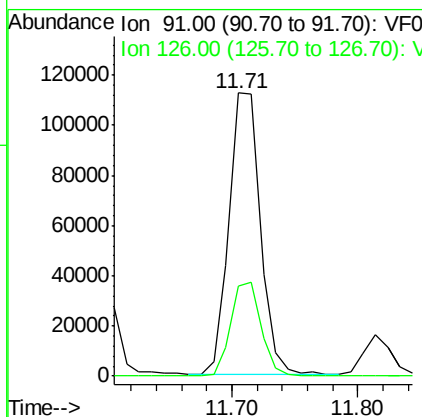
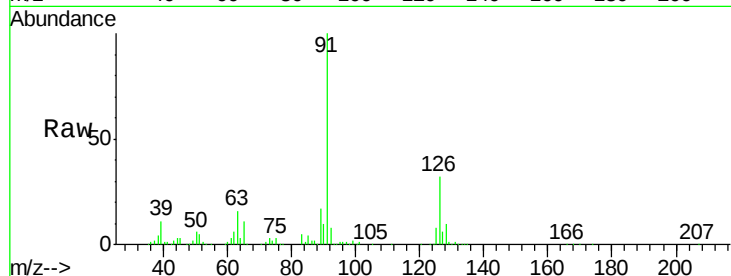
#79
2-Chlorotoluene
Concen: 23.117 ug/l
RT: 11.71 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion: 91 Resp: 192069
Ion Ratio Lower Upper
91 100
126 32.0 15.0 45.1

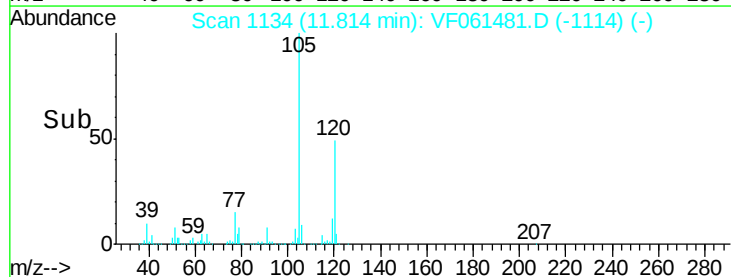
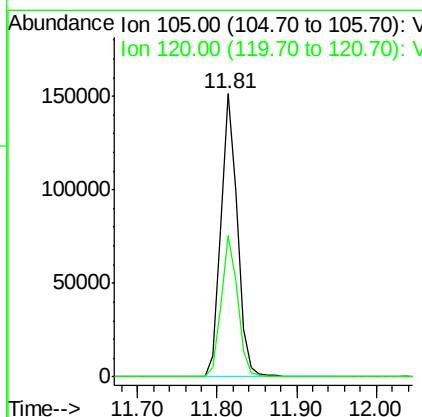
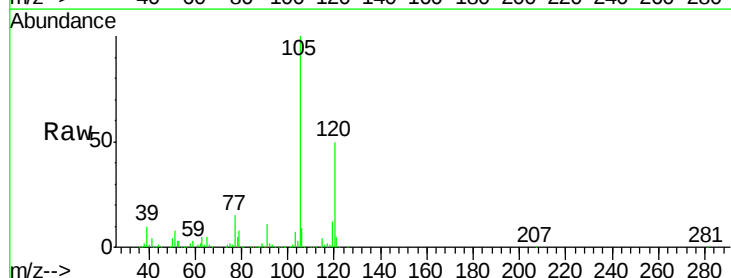
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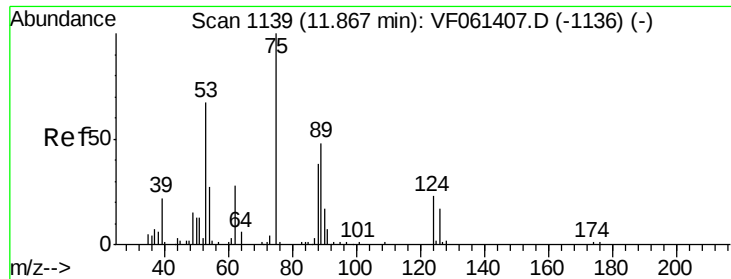
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#80
1,3,5-Trimethylbenzene
Concen: 23.157 ug/l
RT: 11.81 min Scan# 1134
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion: 105 Resp: 223788
Ion Ratio Lower Upper
105 100
120 49.8 24.7 74.1





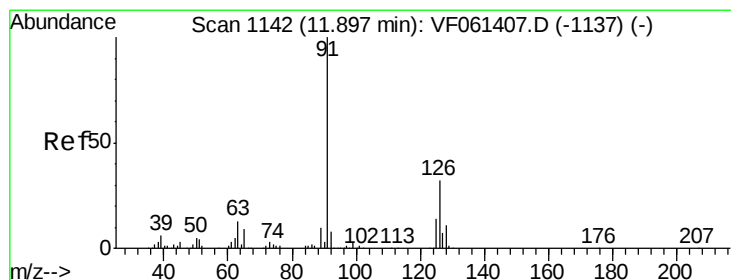
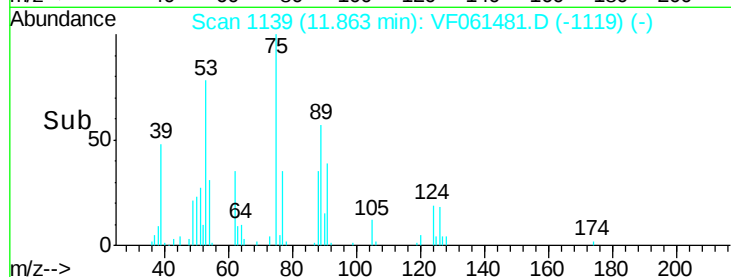
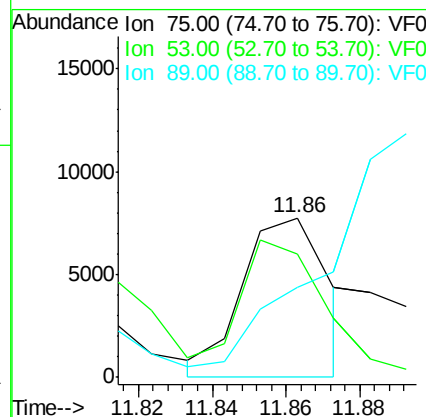
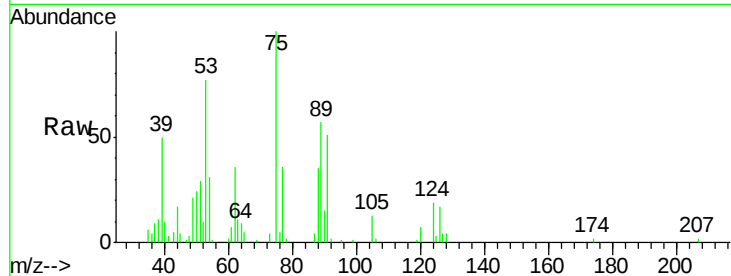
#81
trans-1,4-Dichloro-2-butene
Concen: 18.781 ug/l m
RT: 11.86 min Scan# 1139
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	77.0	57.8	86.6
89	56.6	40.7	61.1

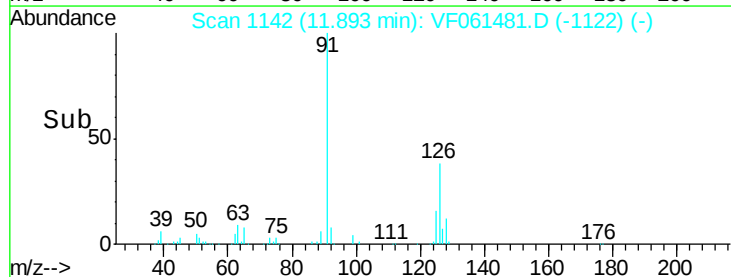
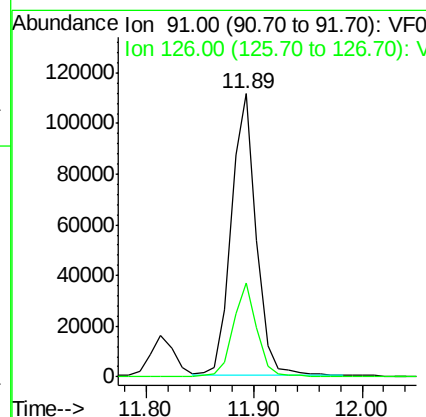
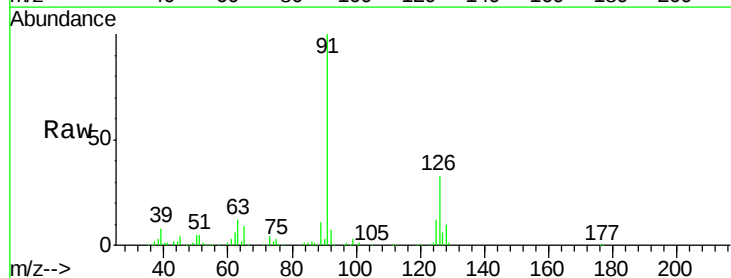
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#82
4-Chlorotoluene
Concen: 21.302 ug/l
RT: 11.89 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.0	47.9





#83

tert-Butylbenzene

Concen: 24.425 ug/l

RT: 12.12 min Scan# 1165

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

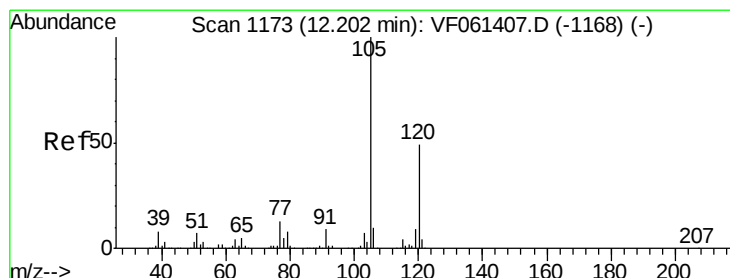
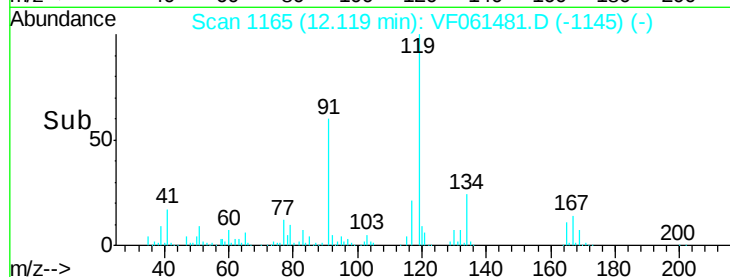
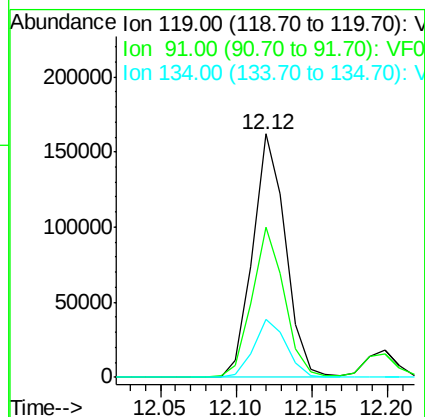
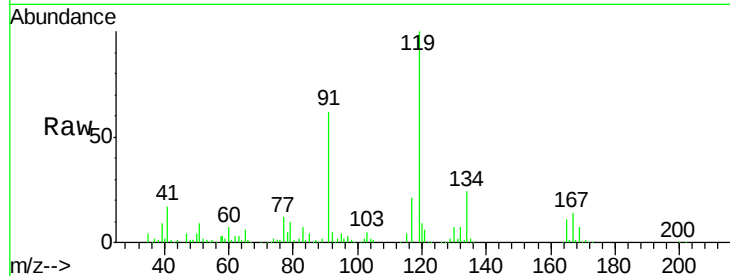
ClientSampleId :

VF0123SBS01

Tot Ion:	119	Resp:	244309
Ion Ratio	Lower	Upper	
119	100		
91	61.7	31.3	93.8
134	23.9	12.4	37.0

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#84

1,2,4-Trimethylbenzene

Concen: 21.632 ug/l

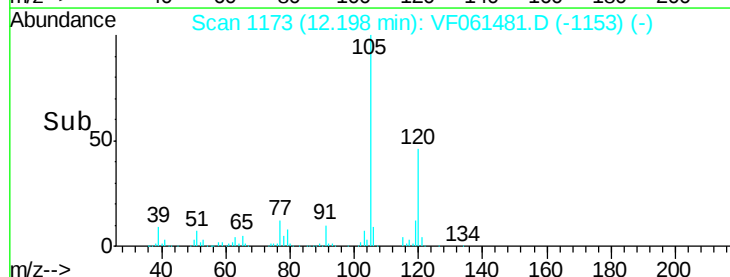
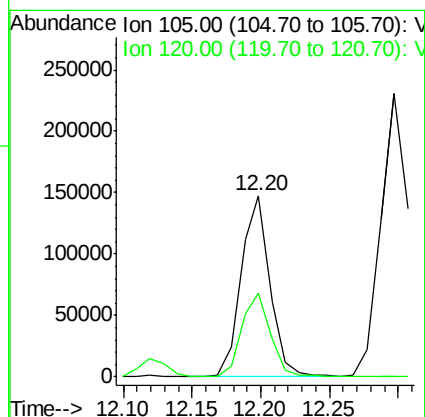
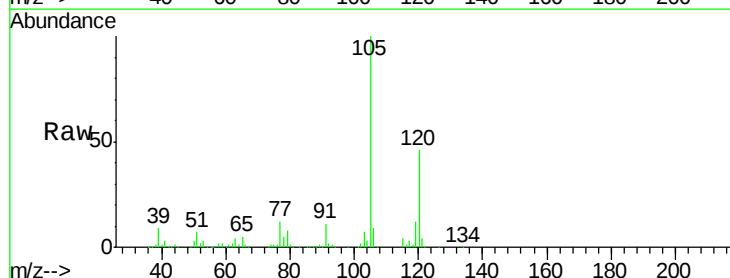
RT: 12.20 min Scan# 1173

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	105	Resp:	215337
Ion Ratio	Lower	Upper	
105	100		
120	46.2	24.9	74.6





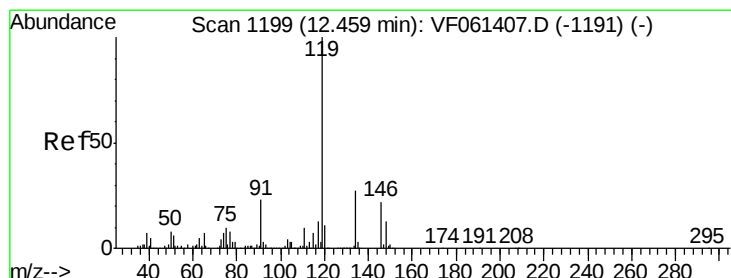
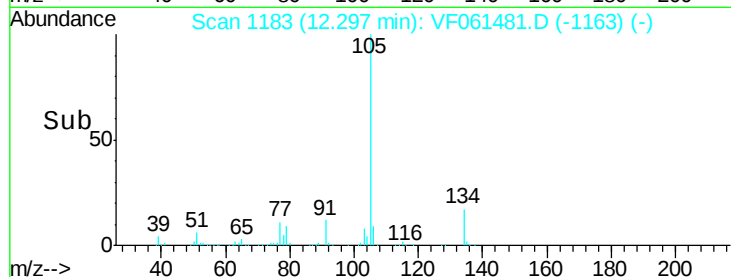
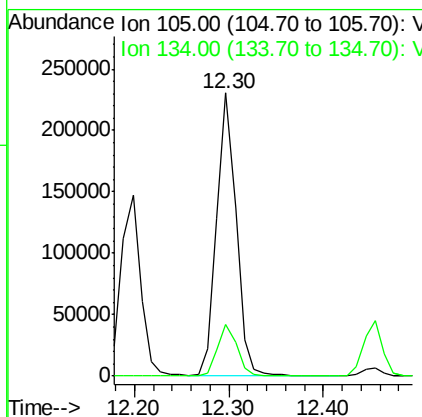
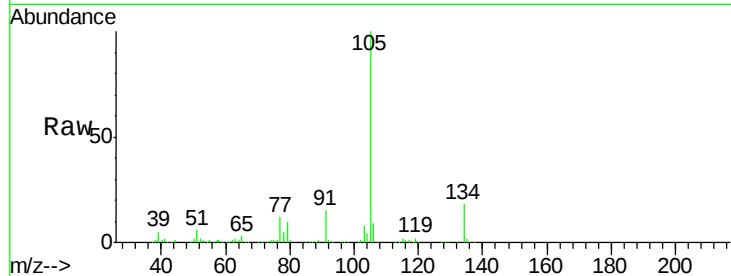
#85
 sec-Butylbenzene
 Concen: 24.324 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. -0.00 min
 Lab File: VF061481.D
 Acq: 23 Jan 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0123SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.1	10.0	30.0

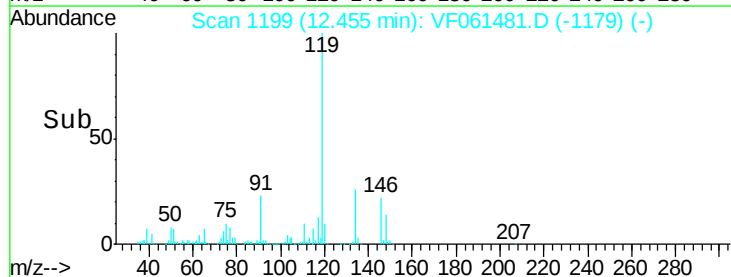
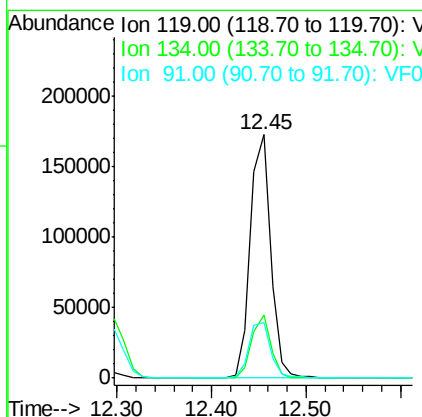
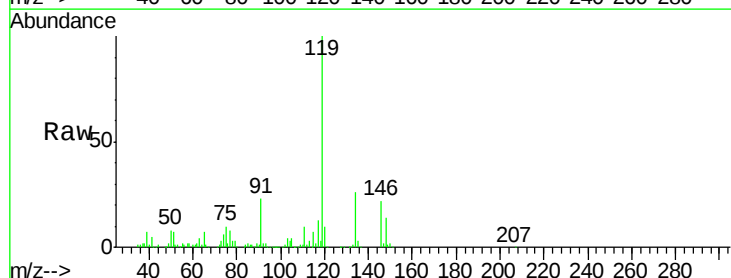
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#86
 p-Isopropyltoluene
 Concen: 23.180 ug/l
 RT: 12.45 min Scan# 1199
 Delta R.T. -0.00 min
 Lab File: VF061481.D
 Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.4	40.2
91	22.8	11.4	34.2





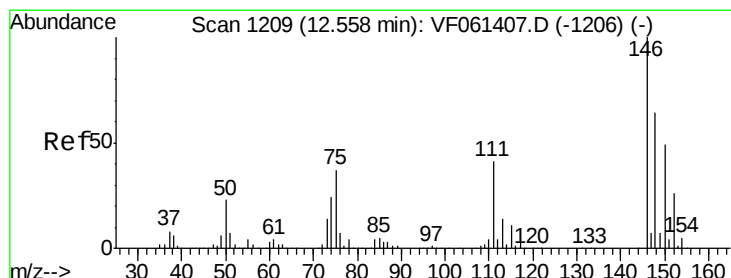
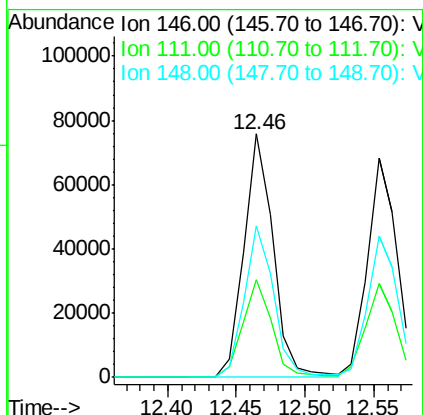
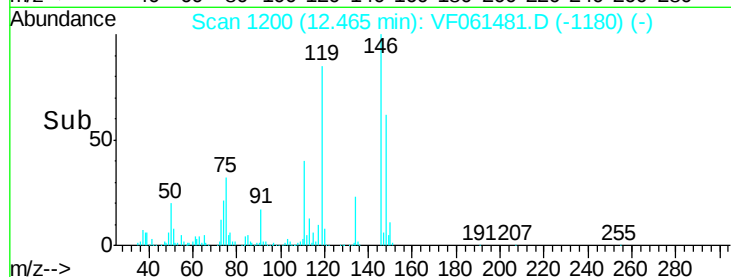
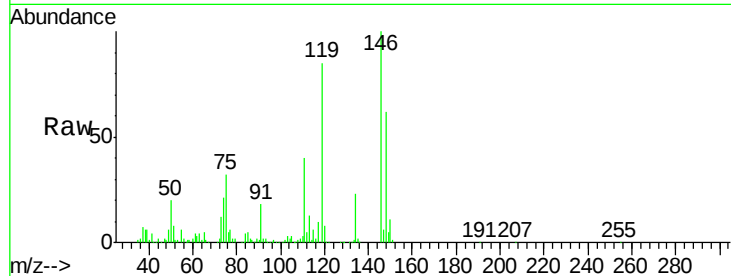
#87
 1,3-Dichlorobenzene
 Concen: 21.217 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061481.D
 Acq: 23 Jan 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0123SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	21.1	63.4
148	62.2	32.9	98.6

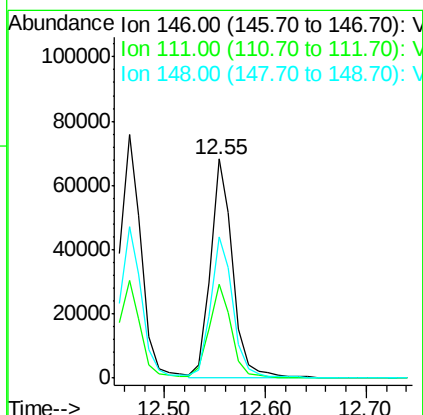
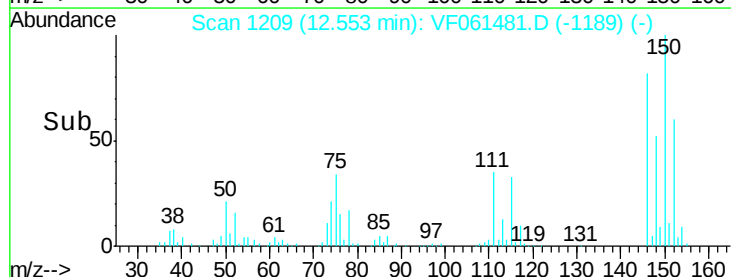
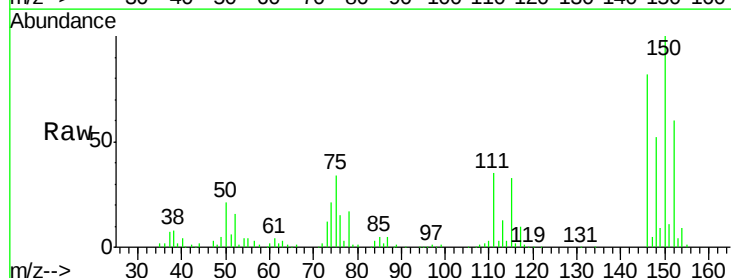
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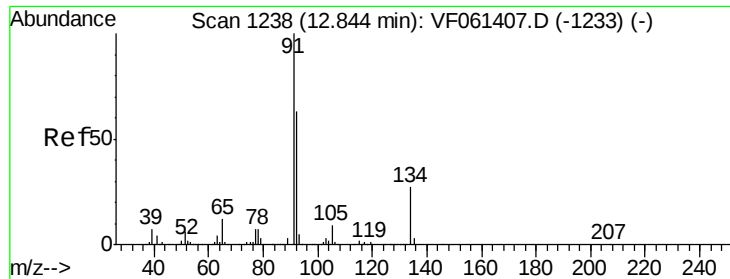
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#88
 1,4-Dichlorobenzene
 Concen: 21.903 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.00 min
 Lab File: VF061481.D
 Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.8	62.2
148	64.3	32.1	96.5





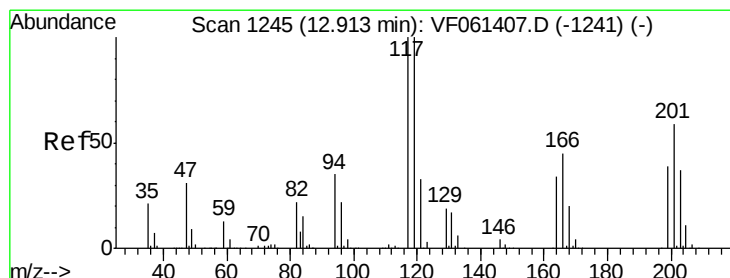
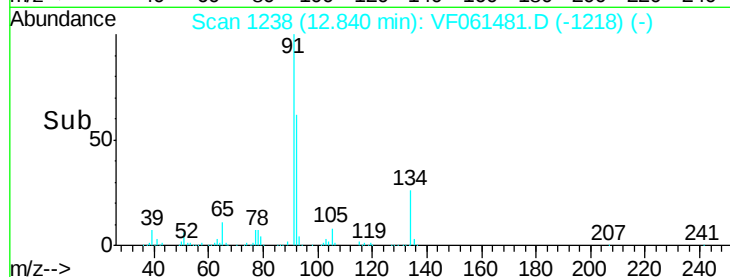
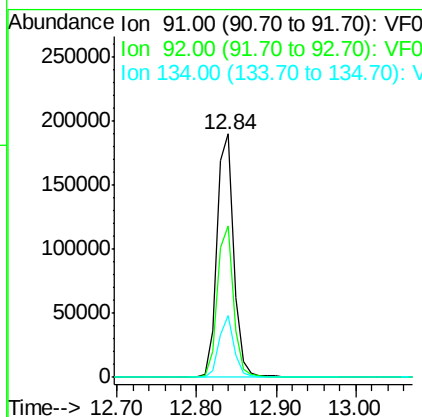
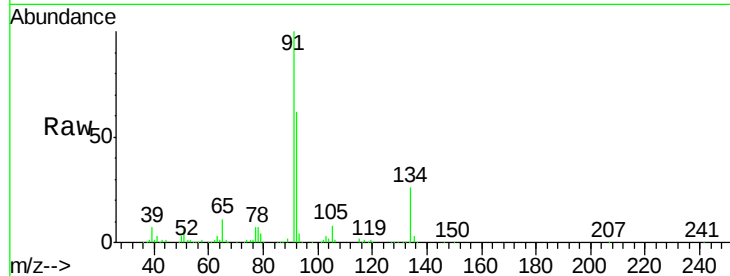
#89
n-Butylbenzene
Concen: 24.810 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VF0123SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.3	31.6	94.7
134	25.5	13.6	40.8

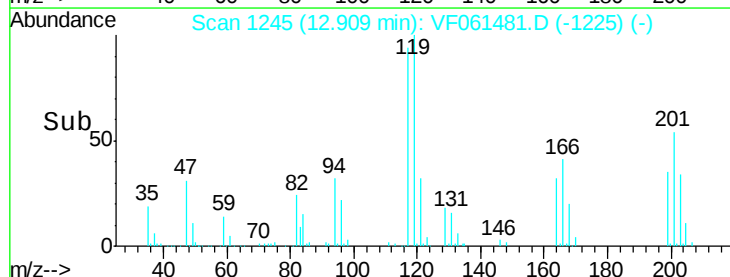
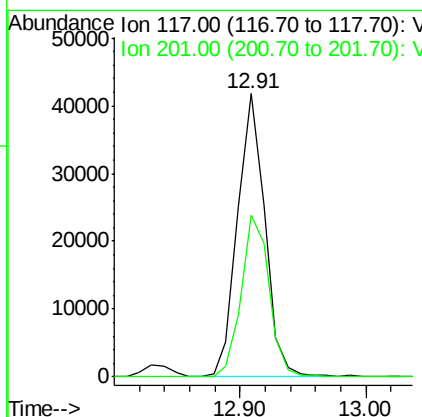
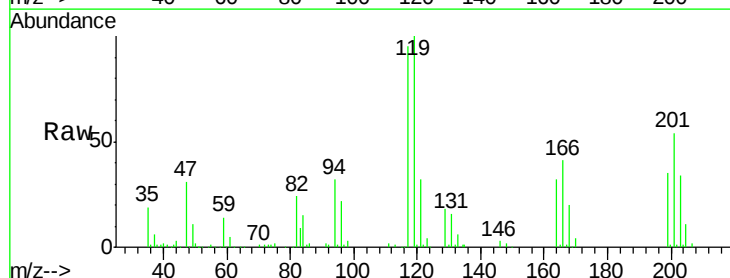
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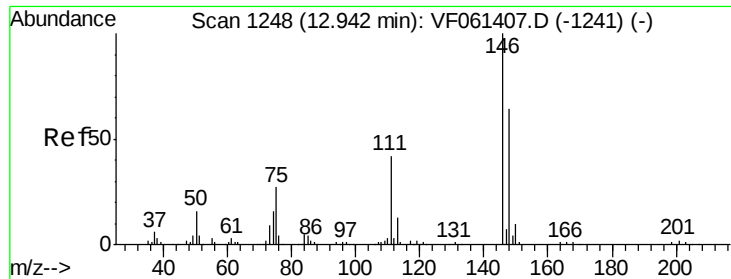
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#90
Hexachloroethane
Concen: 23.936 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.00 min
Lab File: VF061481.D
Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
117	100		
201	57.2	29.3	87.8





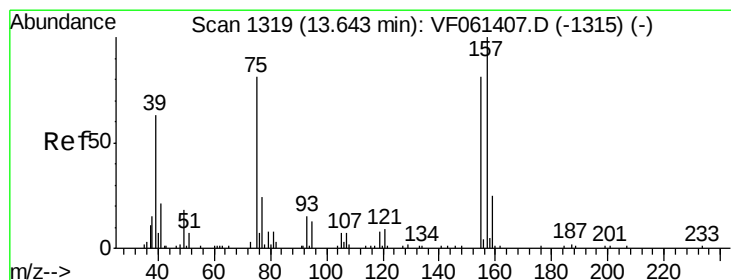
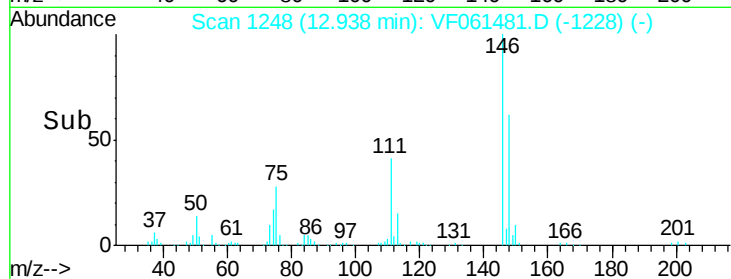
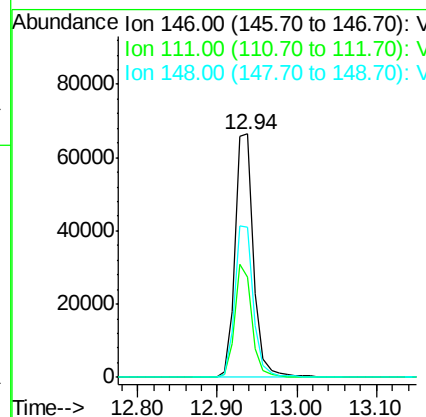
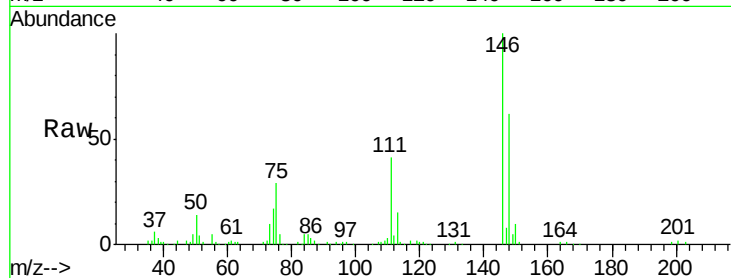
#91
 1,2-Dichlorobenzene
 Concen: 23.133 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061481.D
 Acq: 23 Jan 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0123SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.3	21.1	63.3
148	61.7	31.9	95.7

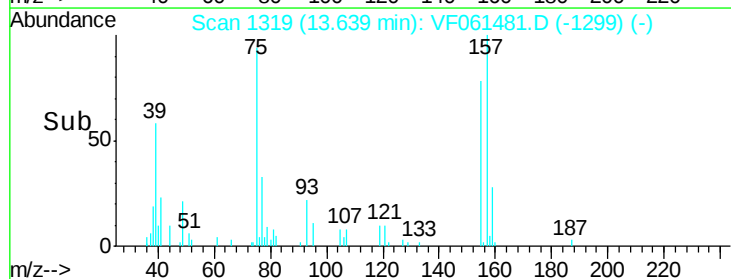
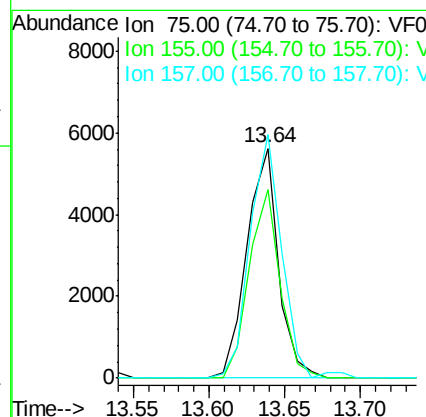
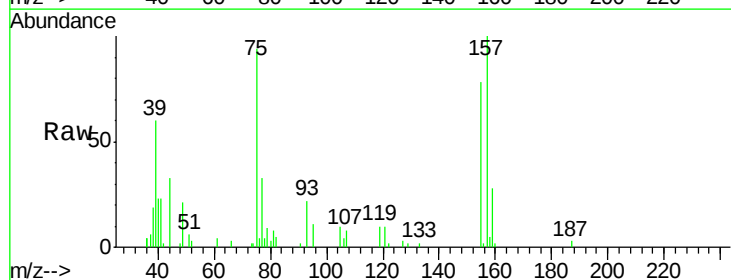
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.698 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061481.D
 Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	82.2	49.7	149.1
157	105.8	61.4	184.1





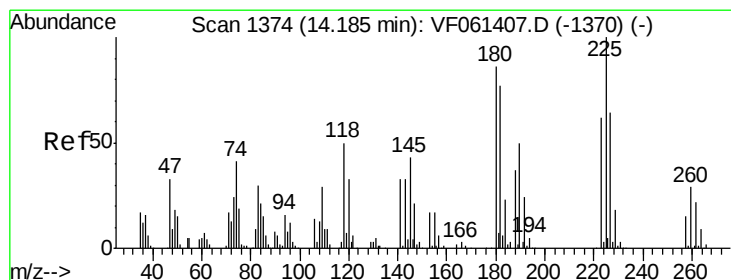
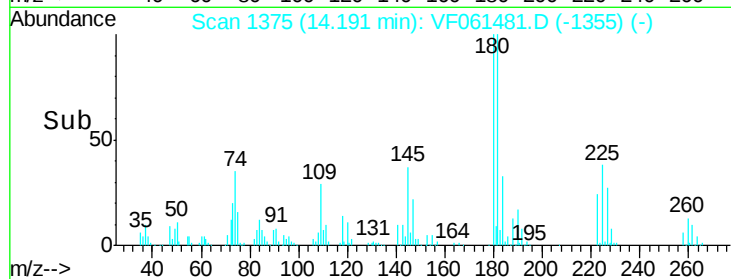
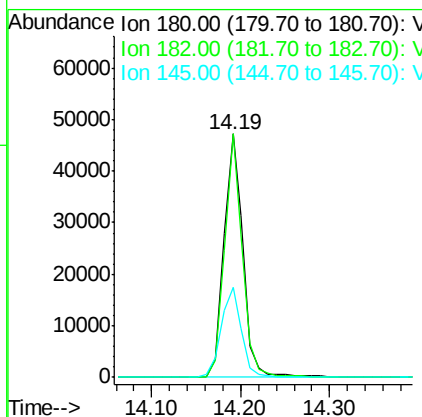
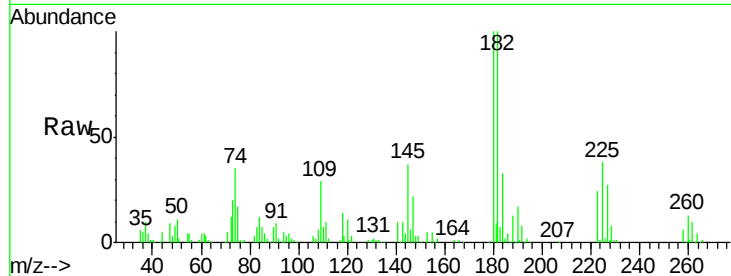
#93
 1,2,4-Trichlorobenzene
 Concen: 21.641 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061481.D
 Acq: 23 Jan 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0123SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.0	48.5	145.6
145	37.1	17.5	52.6

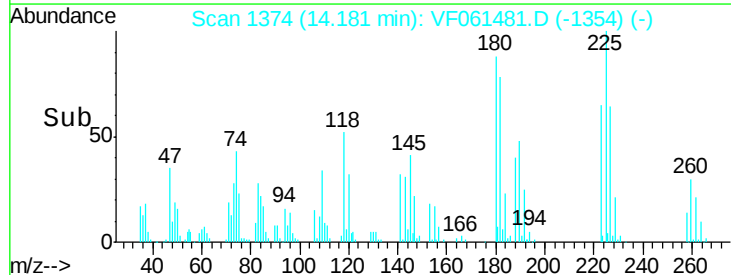
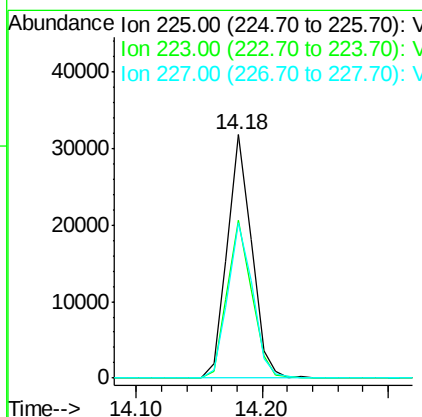
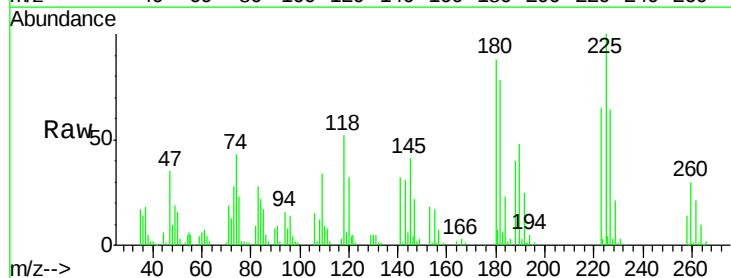
Manual Integrations
 APPROVED

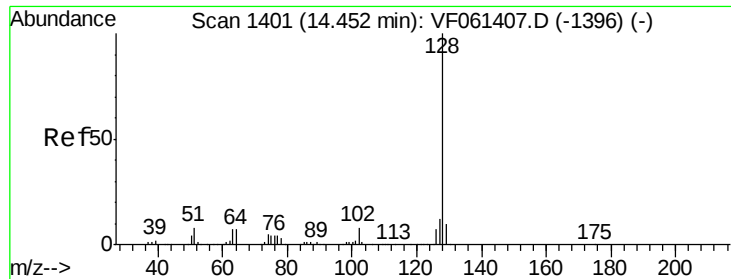
MMDadoda
 1/24/2019 12:56:54 PM



#94
 Hexachlorobutadiene
 Concen: 20.660 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VF061481.D
 Acq: 23 Jan 2019 13:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.9	31.1	93.2
227	63.7	32.2	96.6





#95

Naphthalene

Concen: 19.814 ug/l

RT: 14.45 min Scan# 1401

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Instrument :

MSVOA_F

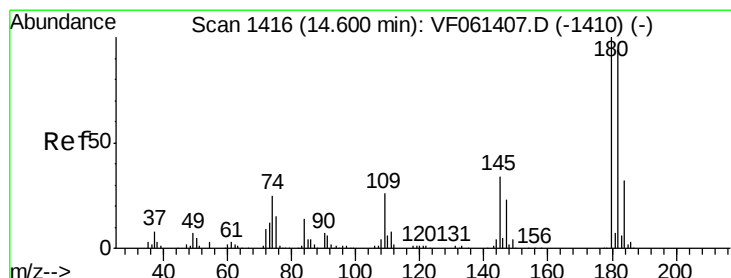
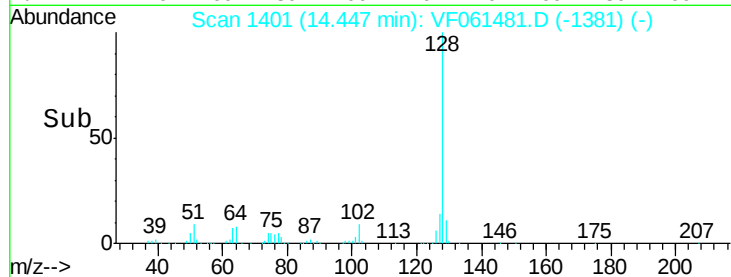
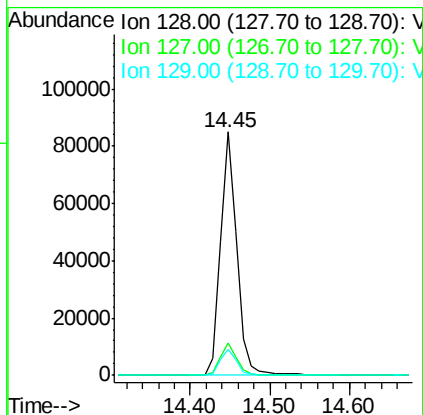
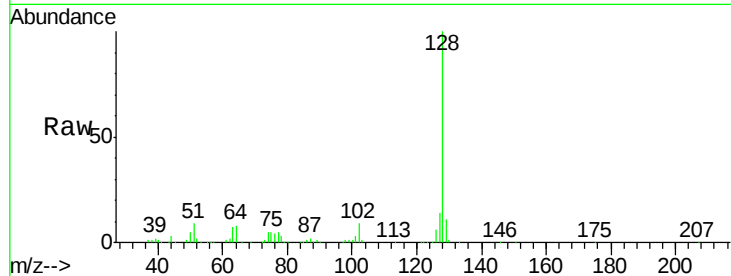
ClientSampleId :

VF0123SBS01

Tot Ion:	128	Resp:	124763
Ion Ratio	Lower	Upper	
128	100		
127	13.5	9.5	14.3
129	10.8	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
1/24/2019 12:56:54 PM



#96

1,2,3-Trichlorobenzene

Concen: 20.978 ug/l

RT: 14.60 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VF061481.D

Acq: 23 Jan 2019 13:22

Tgt Ion:	180	Resp:	64357
Ion Ratio	Lower	Upper	
180	100		
182	96.9	47.0	141.2
145	34.2	17.1	51.2

