

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020819\
 Data File : VF061561.D
 Acq On : 8 Feb 2019 16:50
 Operator : VA/AP
 Sample : VF0208SBS01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Manual Integrations
 APPROVED

MMDadoda
 2/12/2019 2:32:06 AM

Quant Time: Feb 09 04:42:13 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	4.87	168	162014	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	288369	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	266275	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	131742	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	105332	52.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.32%	
35) Dibromofluoromethane	4.11	113	114752	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
50) Toluene-d8	7.55	98	308393	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
62) 4-Bromofluorobenzene	11.41	95	142995	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	61910	19.448	ug/l	91
3) Chloromethane	1.09	50	47936	20.537	ug/l	96
4) Vinyl Chloride	1.14	62	44773	21.563	ug/l	96
5) Bromomethane	1.32	94	28983	21.406	ug/l	82
6) Chloroethane	1.38	64	18528	20.138	ug/l	95
7) Trichlorofluoromethane	1.49	101	82856	20.527	ug/l	100
8) Diethyl Ether	1.63	74	10306	19.926	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.82	101	42622	21.976	ug/l	87
10) Methyl Iodide	1.89	142	61468m	20.443	ug/l	
11) Tert butyl alcohol	2.58	59	9743	115.073	ug/l #	91
12) 1,1-Dichloroethene	1.78	96	31468	21.838	ug/l	95
13) Acrolein	2.00	56	5639	84.463	ug/l	91
14) Allyl chloride	2.10	41	51037	32.506	ug/l	87
15) Acrylonitrile	2.94	53	22440	103.469	ug/l	92
16) Acetone	2.24	43	55373	137.992	ug/l	93
17) Carbon Disulfide	1.81	76	92780	20.650	ug/l	97
18) Methyl Acetate	2.34	43	19139	24.050	ug/l	98
19) Methyl tert-butyl Ether	2.43	73	69561	21.535	ug/l	97
20) Methylene Chloride	2.18	84	33136m	23.391	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	34014	21.455	ug/l	96
22) Diisopropyl ether	2.80	45	113498	22.134	ug/l #	96
23) Vinyl Acetate	3.18	43	259197	116.645	ug/l	100
24) 1,1-Dichloroethane	2.87	63	70357	21.861	ug/l	97
25) 2-Butanone	4.34	43	80515	120.656	ug/l	98
26) 2,2-Dichloropropane	3.60	77	43542	22.021	ug/l	97
27) cis-1,2-Dichloroethene	3.48	96	51066	21.821	ug/l	95
28) Bromochloromethane	3.72	49	30000	20.737	ug/l	99
29) Tetrahydrofuran	4.07	42	29132	101.386	ug/l	98
30) Chloroform	3.86	83	98137	22.594	ug/l	98
31) Cyclohexane	3.70	56	66647	20.731	ug/l	99
32) 1,1,1-Trichloroethane	4.09	97	72508	22.767	ug/l	99
36) 1,1-Dichloropropene	4.28	75	70768	21.166	ug/l	98
37) Ethyl Acetate	4.11	43	28981	21.684	ug/l #	97
38) Carbon Tetrachloride	3.98	117	64629	22.110	ug/l	95

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MMDadoda
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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	73449	20.271	ug/l	99
40) Benzene	4.63	78	158754	21.338	ug/l	100
41) Methacrylonitrile	4.74	41	16848	23.691	ug/l #	83
42) 1,2-Dichloroethane	4.94	62	55089	20.779	ug/l	95
43) Isopropyl Acetate	6.96	43	34790	20.740	ug/l #	93
44) Trichloroethene	5.50	130	51659	22.635	ug/l	94
45) 1,2-Dichloropropane	6.24	63	41628	21.319	ug/l	97
46) Dibromomethane	6.08	93	26321	20.272	ug/l	92
47) Bromodichloromethane	6.38	83	69412	21.607	ug/l	93
48) Methyl methacrylate	6.71	41	23857	21.180	ug/l	93
49) 1,4-Dioxane	6.71	88	3214	364.672	ug/l #	71
51) 4-Methyl-2-Pentanone	8.25	43	141976	115.132	ug/l	97
52) Toluene	7.62	92	94136	19.214	ug/l	95
53) t-1,3-Dichloropropene	8.27	75	57687	22.615	ug/l	98
54) cis-1,3-Dichloropropene	7.30	75	73183	22.952	ug/l	95
55) 1,1,2-Trichloroethane	8.50	97	35386	25.434	ug/l	96
56) Ethyl methacrylate	8.62	69	32297	19.953	ug/l	93
57) 1,3-Dichloropropane	8.85	76	57198	21.933	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.30	63	24238	154.597	ug/l	98
59) 2-Hexanone	9.49	43	108021	125.620	ug/l	95
60) Dibromochloromethane	8.72	129	43019	21.150	ug/l	91
61) 1,2-Dibromoethane	8.98	107	32695	20.528	ug/l	95
64) Tetrachloroethene	8.15	164	40291	20.121	ug/l	90
65) Chlorobenzene	9.79	112	123506	22.809	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	49399	22.901	ug/l	97
67) Ethyl Benzene	9.90	91	220667	22.305	ug/l	98
68) m/p-Xylenes	10.13	106	158247	44.473	ug/l	97
69) o-Xylene	10.71	106	83029	21.529	ug/l	94
70) Styrene	10.79	104	117501	22.258	ug/l	98
71) Bromoform	10.77	173	22680	23.401	ug/l #	96
73) Isopropylbenzene	11.12	105	261895	24.442	ug/l	98
74) N-amyl acetate	11.37	43	59434	23.458	ug/l #	95
75) 1,1,2,2-Tetrachloroethane	11.70	83	45056	23.604	ug/l	100
76) 1,2,3-Trichloropropane	11.79	75	31239	22.776	ug/l	99
77) Bromobenzene	11.50	156	51336	22.686	ug/l	97
78) n-propylbenzene	11.60	91	312548	22.491	ug/l	98
79) 2-Chlorotoluene	11.72	91	172731	23.234	ug/l	100
80) 1,3,5-Trimethylbenzene	11.82	105	203977	23.589	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.87	75	13267m	22.251	ug/l	
82) 4-Chlorotoluene	11.89	91	173761	23.162	ug/l	93
83) tert-Butylbenzene	12.13	119	218901	24.459	ug/l	99
84) 1,2,4-Trimethylbenzene	12.20	105	211017	23.691	ug/l	94
85) sec-Butylbenzene	12.31	105	281170	23.134	ug/l	97
86) p-Isopropyltoluene	12.46	119	242672	24.322	ug/l	95
87) 1,3-Dichlorobenzene	12.47	146	103814	21.886	ug/l	99
88) 1,4-Dichlorobenzene	12.56	146	97709	22.850	ug/l	97
89) n-Butylbenzene	12.84	91	255547	24.835	ug/l	97
90) Hexachloroethane	12.92	117	57072	24.266	ug/l	92
91) 1,2-Dichlorobenzene	12.94	146	96022	22.683	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.64	75	7312	21.597	ug/l	71

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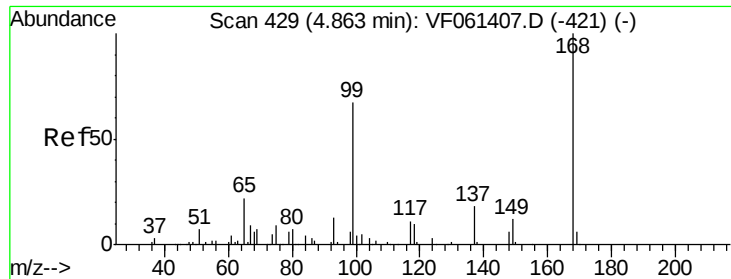
Manual Integrations
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	68364	23.054	ug/l	98
94) Hexachlorobutadiene	14.19	225	42389	23.036	ug/l	98
95) Naphthalene	14.46	128	114032	20.240	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	58750	21.402	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion:168 Resp: 162014

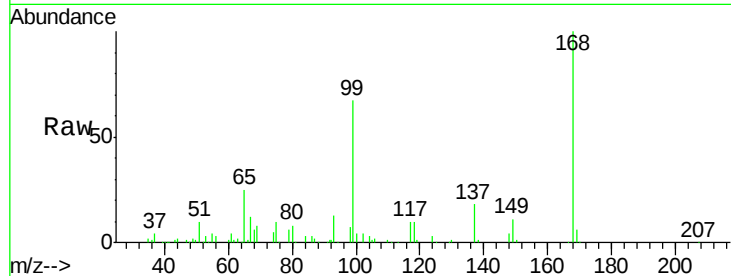
Ion Ratio Lower Upper

168 100

99 67.3 53.5 80.3

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

60000

50000

40000

30000

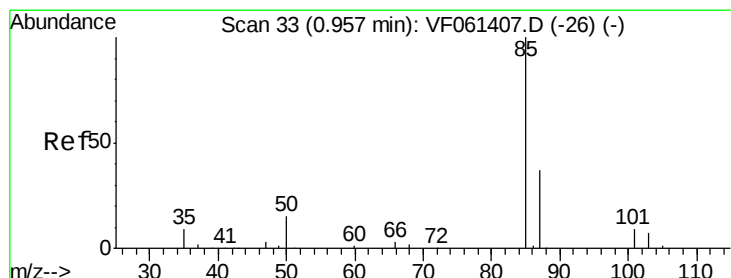
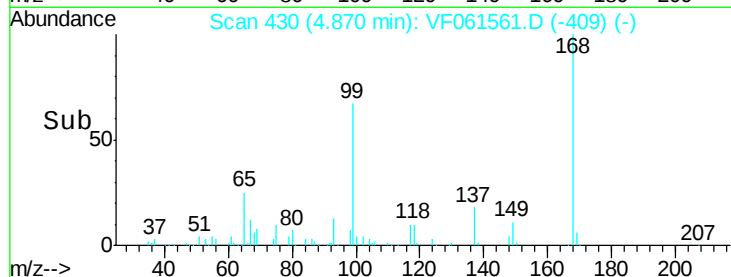
20000

10000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 19.448 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.01 min

Lab File: VF061561.D

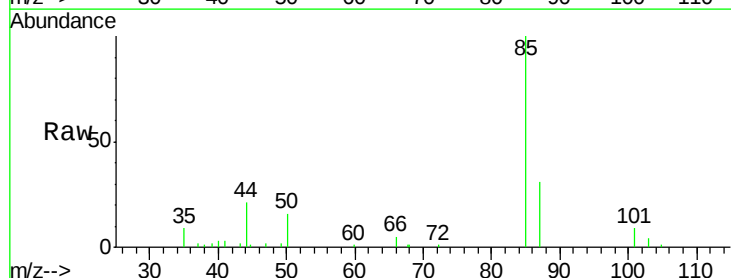
Acq: 8 Feb 2019 16:50

Tgt Ion: 85 Resp: 61910

Ion Ratio Lower Upper

85 100

87 31.3 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

20000

15000

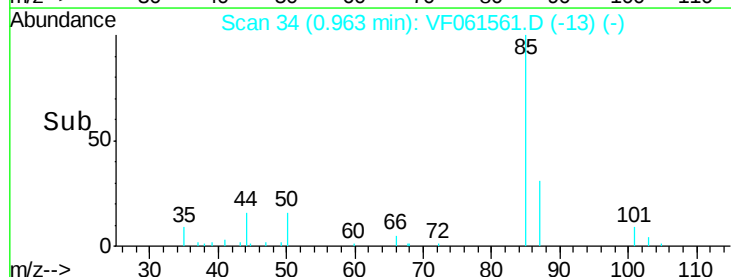
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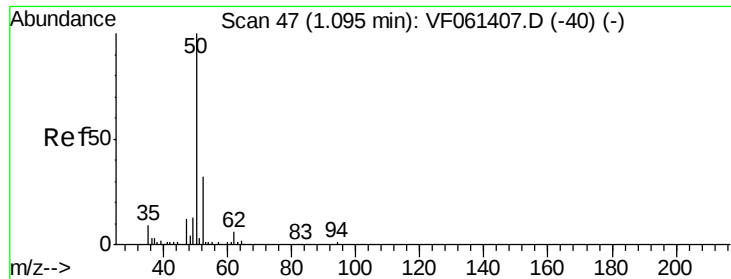
5000

0

0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 20.537 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.00 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 50 Resp: 47936

Ion Ratio Lower Upper

50 100

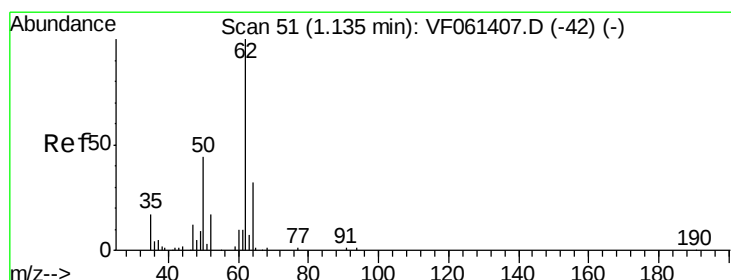
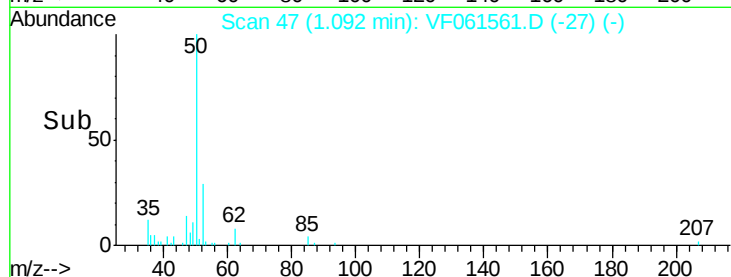
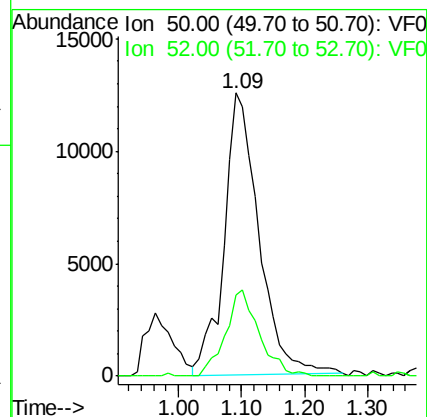
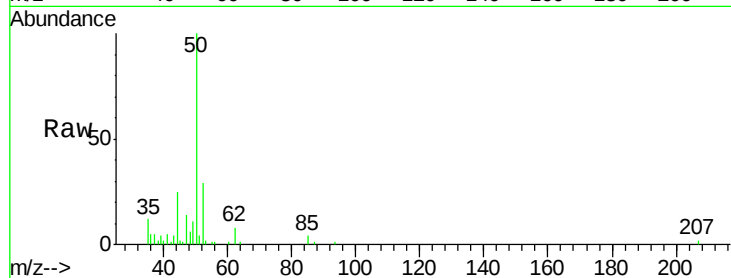
52 28.6 24.6 36.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 21.563 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.01 min

Lab File: VF061561.D

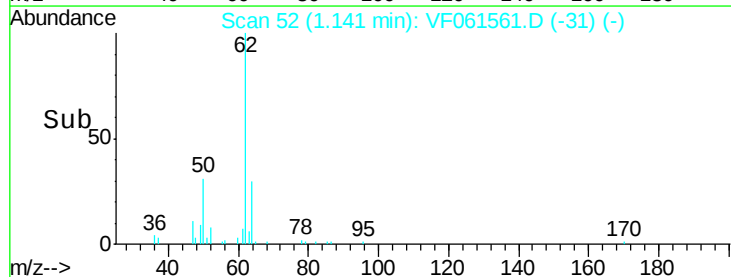
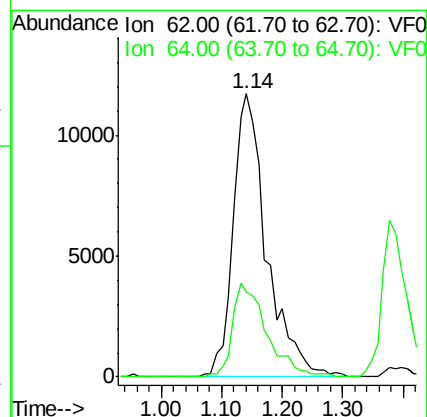
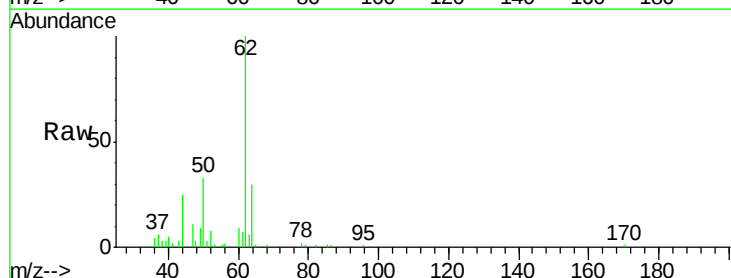
Acq: 8 Feb 2019 16:50

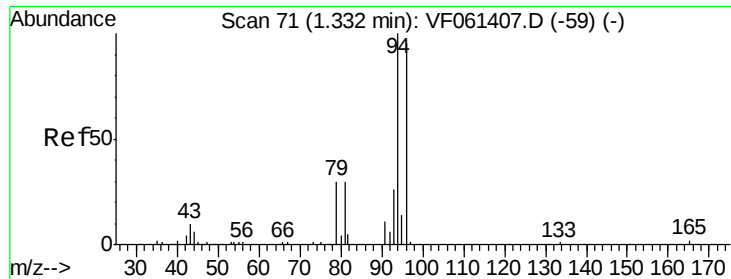
Tgt Ion: 62 Resp: 44773

Ion Ratio Lower Upper

62 100

64 30.0 25.6 38.4





#5

Bromomethane

Concen: 21.406 ug/l

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 94 Resp: 28983

Ion Ratio Lower Upper

94 100

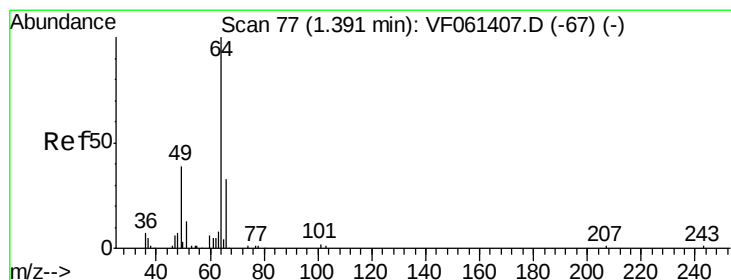
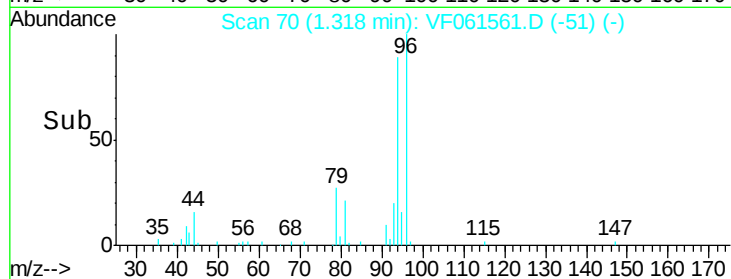
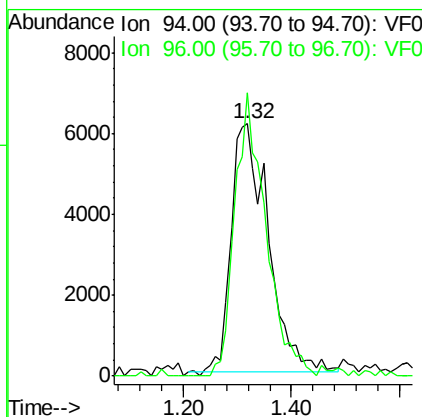
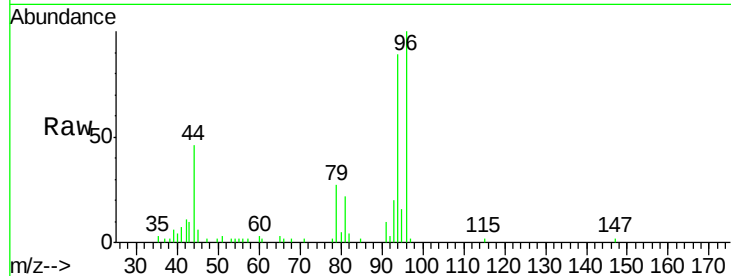
96 112.2 76.0 114.0

Manual Integrations

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#6

Chloroethane

Concen: 20.138 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061561.D

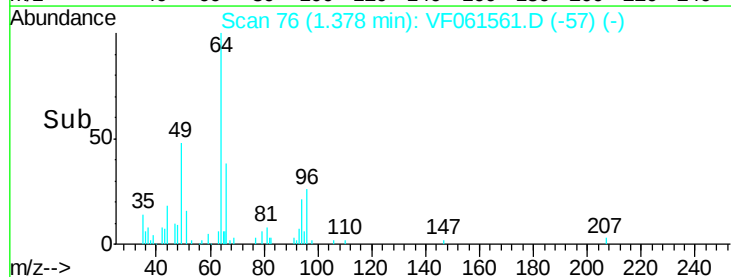
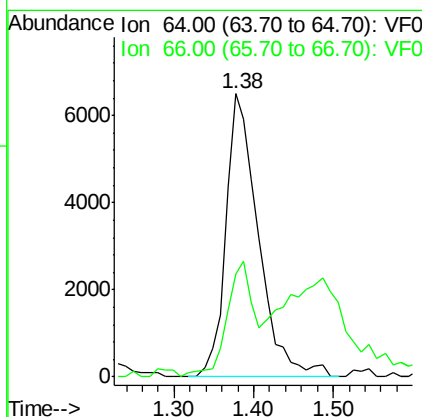
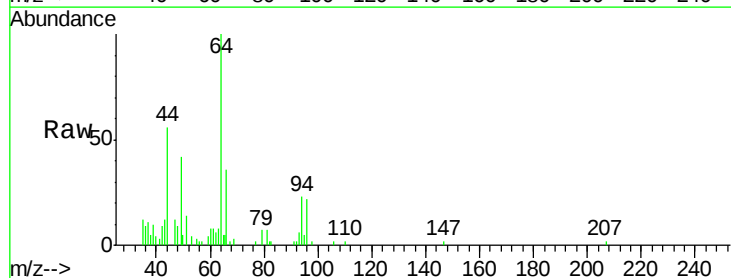
Acq: 8 Feb 2019 16:50

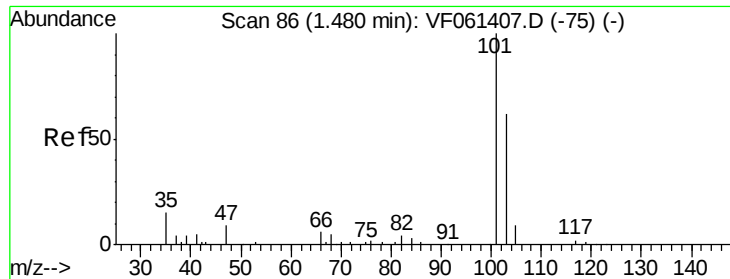
Tgt Ion: 64 Resp: 18528

Ion Ratio Lower Upper

64 100

66 36.2 26.6 40.0





#7

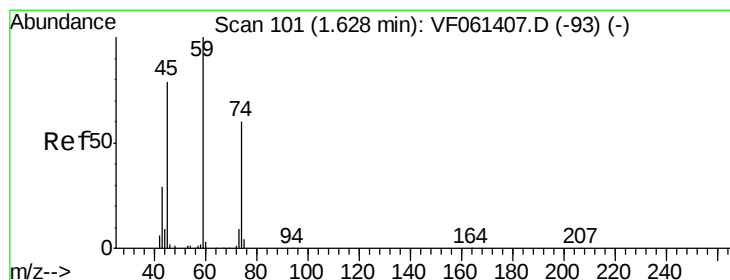
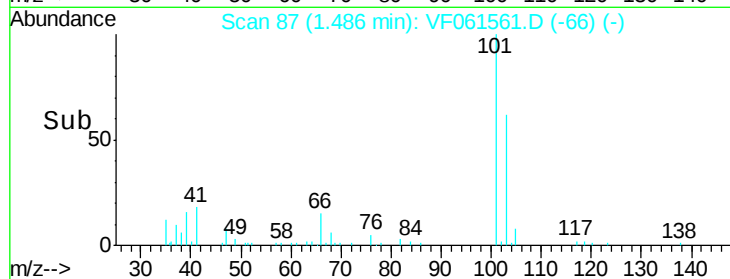
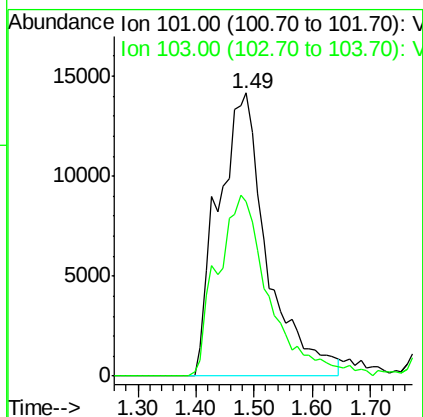
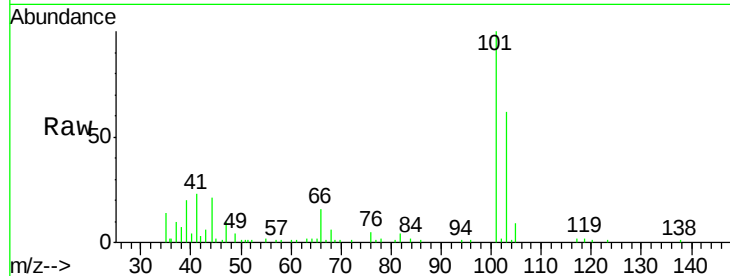
Trichlorofluoromethane
 Concen: 20.527 ug/l
 RT: 1.49 min Scan# 87
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Instrument :
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 VF0208SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.8	49.7	74.5

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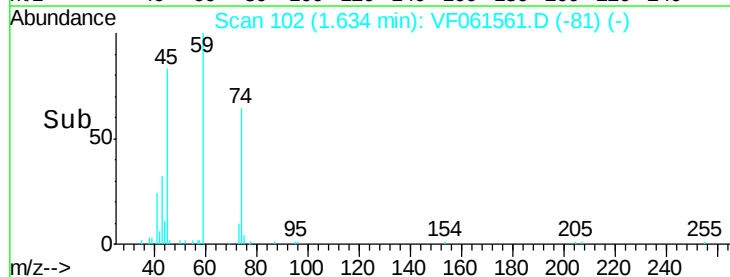
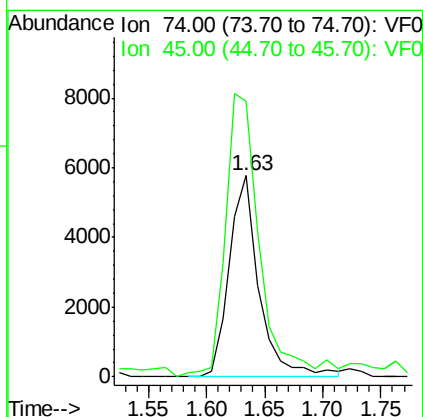
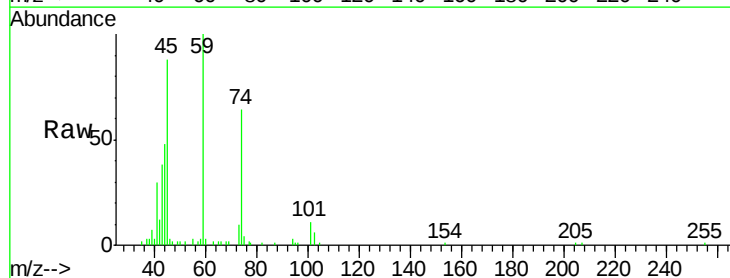
MMDadoda
 2/12/2019 2:32:06 AM



#8

Diethyl Ether
 Concen: 19.926 ug/l
 RT: 1.63 min Scan# 102
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	137.0	65.8	197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.976 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

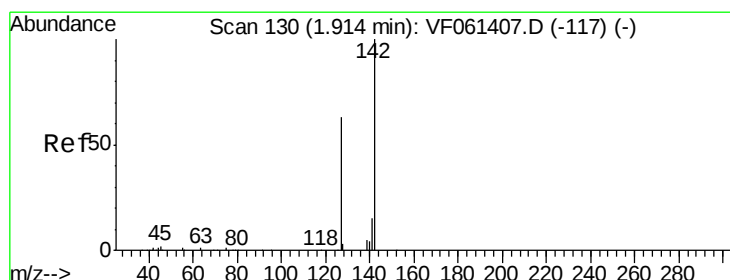
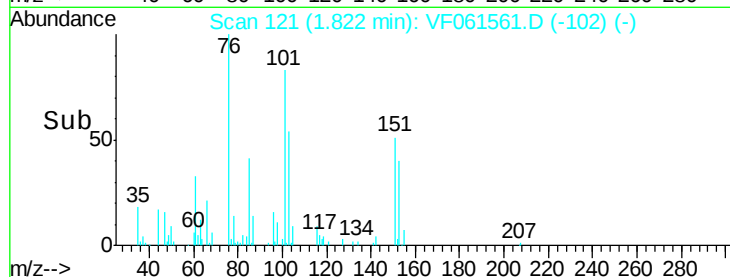
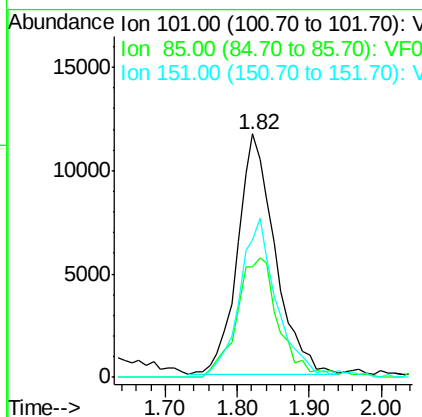
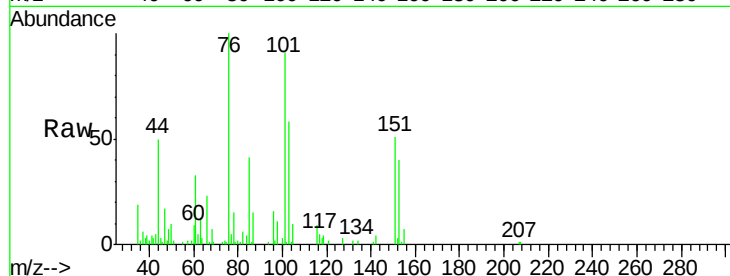
ClientSampleId :

VF0208SBS01

Tot Ion:	101	Resp:	42622
Ion Ratio	Lower	Upper	
101	100		
85	45.5	41.9	62.9
151	56.6	55.1	82.7

Manual Integrations
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#10

Methyl Iodide

Concen: 20.443 ug/l m

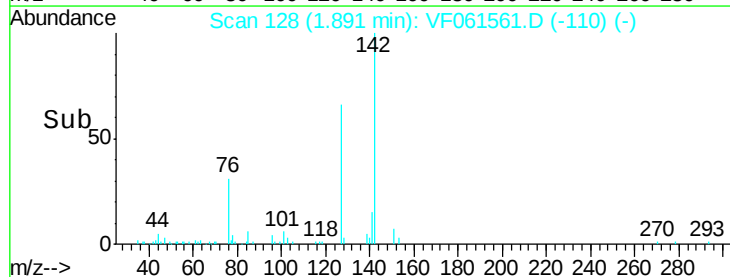
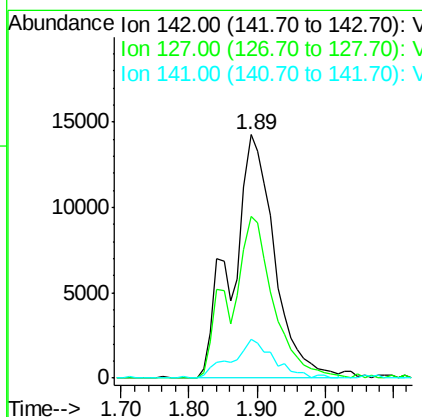
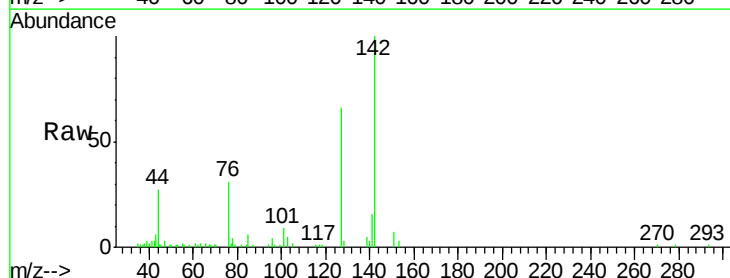
RT: 1.89 min Scan# 128

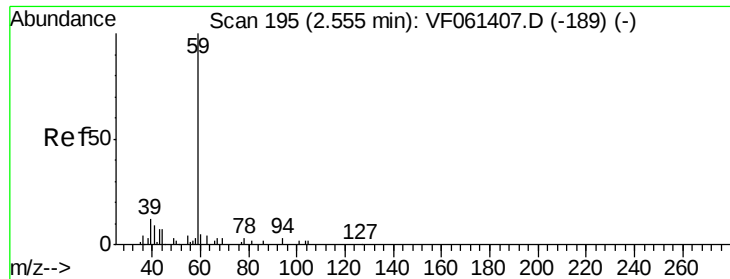
Delta R.T. -0.02 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	142	Resp:	61468
Ion Ratio	Lower	Upper	
142	100		
127	66.3	50.7	76.1
141	16.0	11.8	17.6





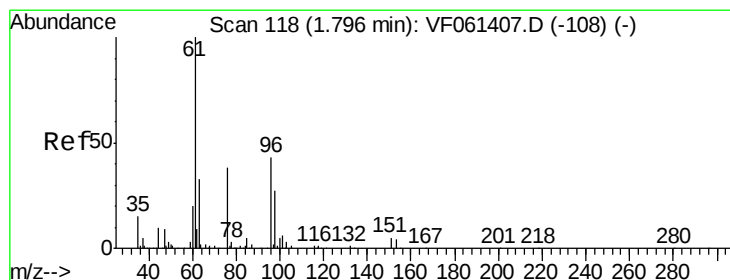
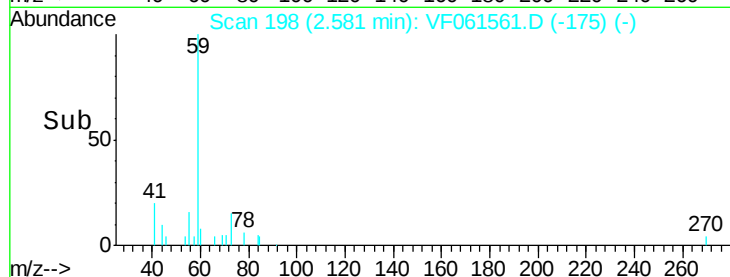
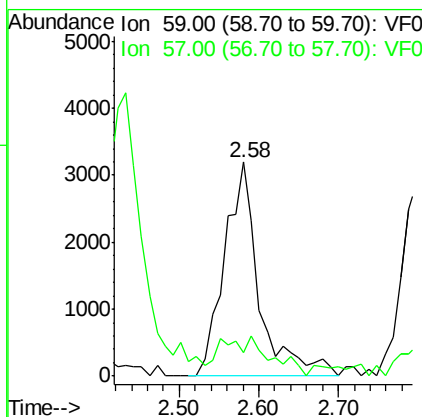
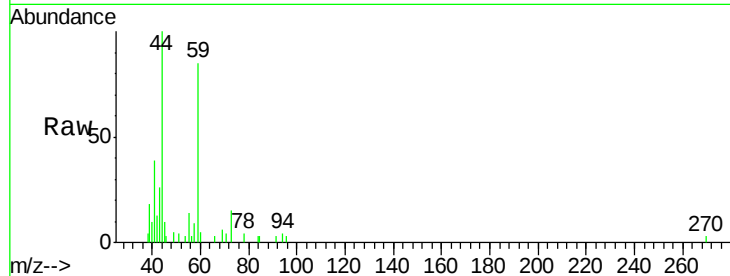
#11
Tert butyl alcohol
Concen: 115.073 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.03 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion: 59 Resp: 9743
Ion Ratio Lower Upper
59 100
57 11.0 11.9 17.9#

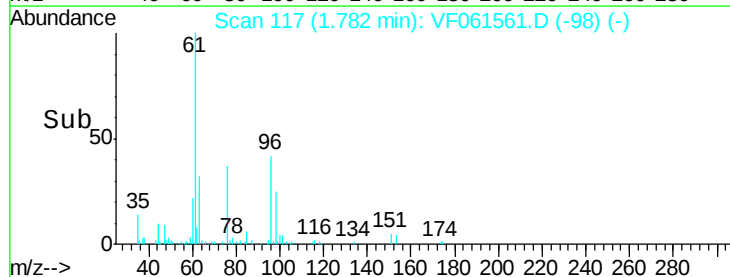
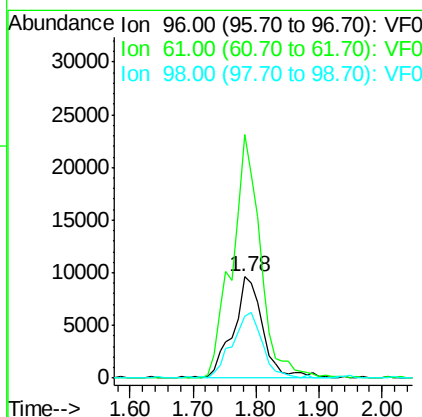
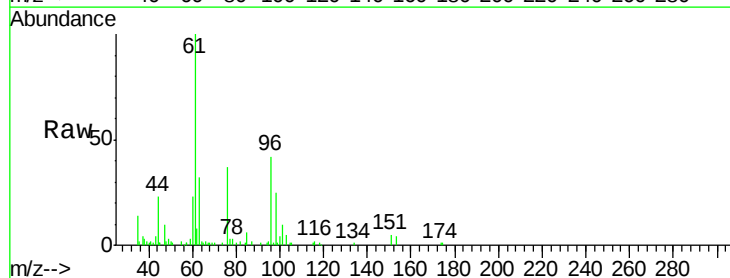
Manual Integrations
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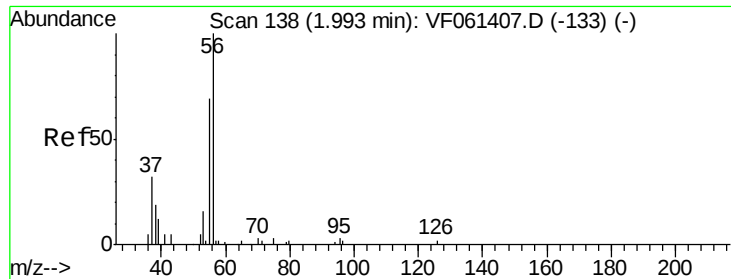
MMDadoda
2/12/2019 2:32:06 AM



#12
1,1-Dichloroethene
Concen: 21.838 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion: 96 Resp: 31468
Ion Ratio Lower Upper
96 100
61 240.7 186.9 280.3
98 60.6 53.0 79.4





#13

Acrolein

Concen: 84.463 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 56 Resp: 5639

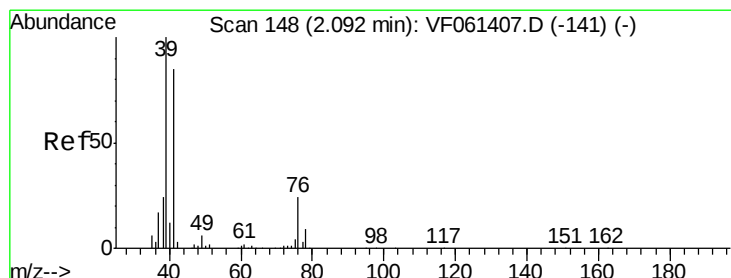
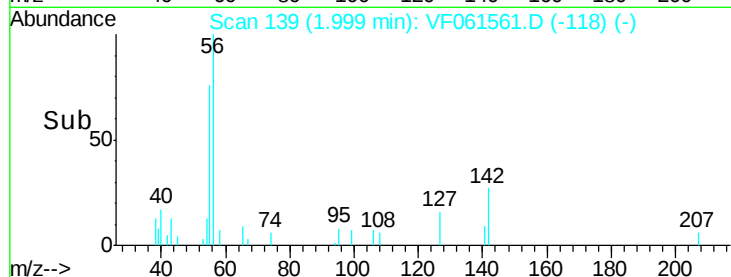
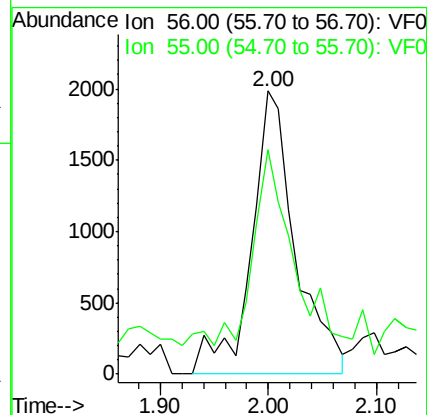
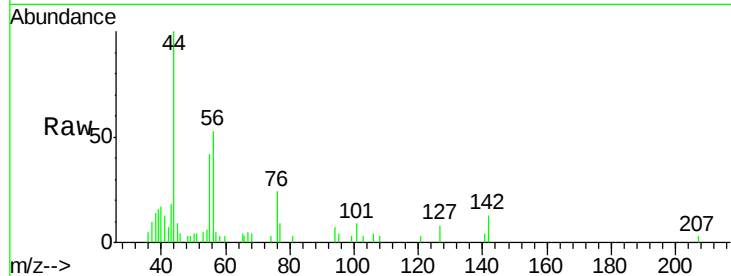
Ion Ratio Lower Upper

56 100

55 79.4 57.5 86.3

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2/12/2019 2:32:06 AM



#14

Allyl chloride

Concen: 32.506 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

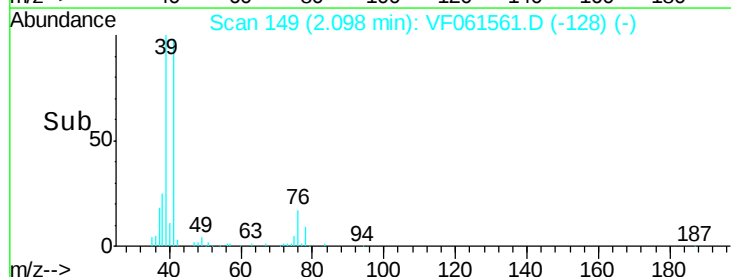
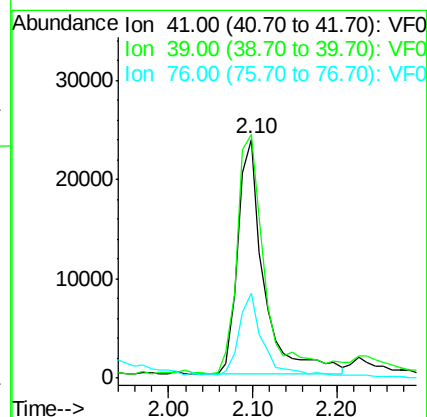
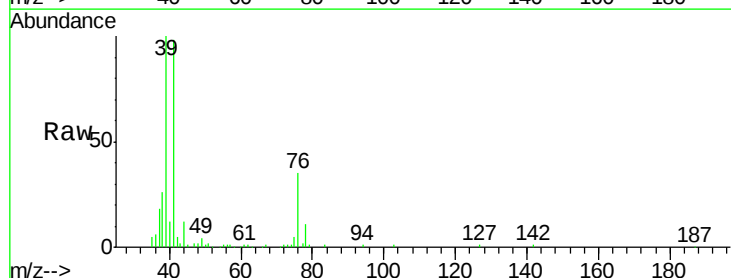
Tgt Ion: 41 Resp: 51037

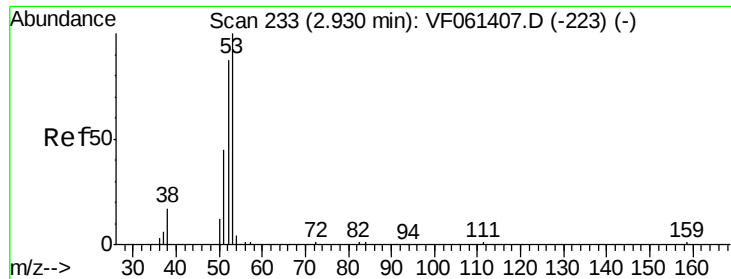
Ion Ratio Lower Upper

41 100

39 101.9 94.6 141.8

76 35.3 25.9 38.9





#15

Acrylonitrile

Concen: 103.469 ug/l

RT: 2.94 min Scan# 234

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

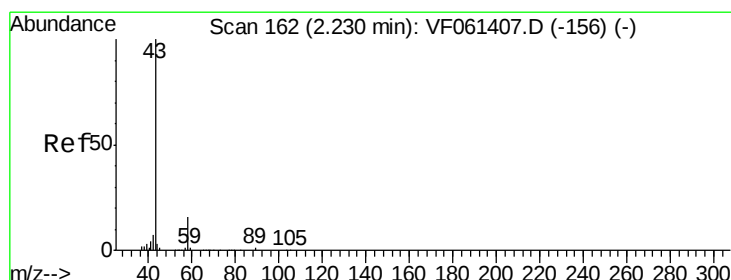
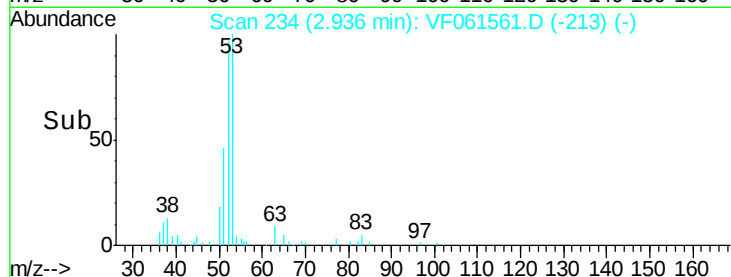
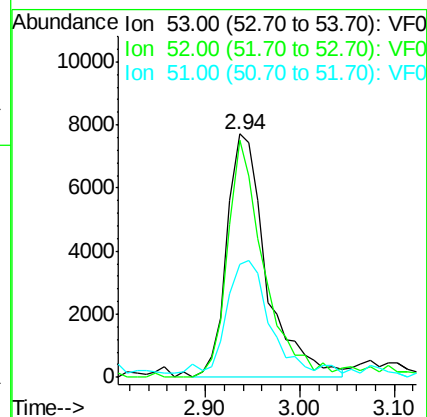
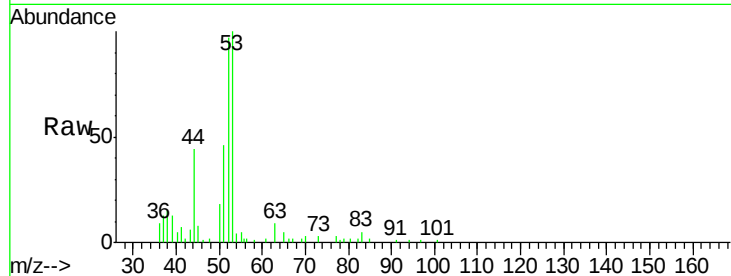
ClientSampleId :

VF0208SBS01

Tot Ion:	53	Resp:	22440
Ion Ratio	Lower	Upper	
53	100		
52	97.3	69.6	104.4
51	46.4	36.8	55.2

Manual Integrations
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2/12/2019 2:32:06 AM



#16

Acetone

Concen: 137.992 ug/l

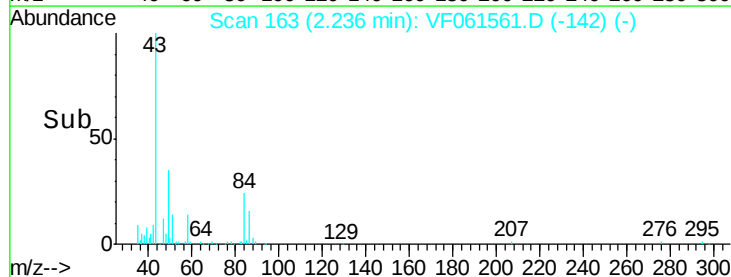
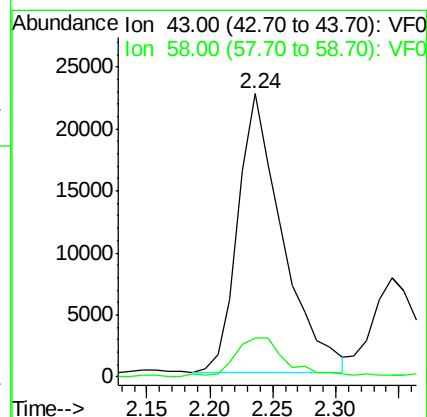
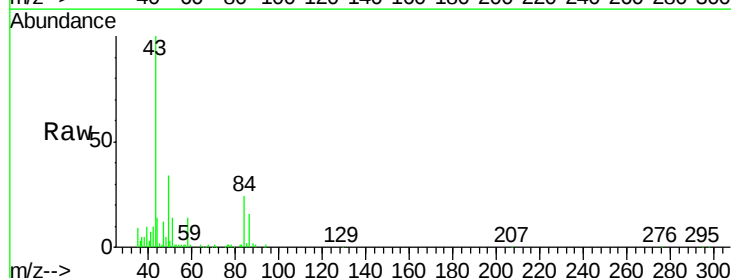
RT: 2.24 min Scan# 163

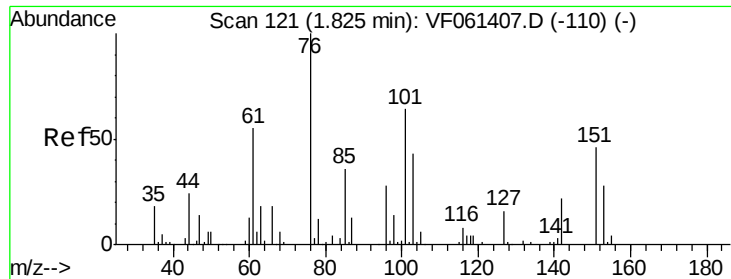
Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	43	Resp:	55373
Ion Ratio	Lower	Upper	
43	100		
58	13.8	13.3	19.9





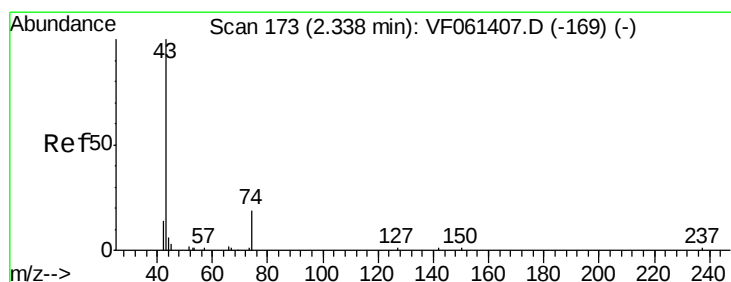
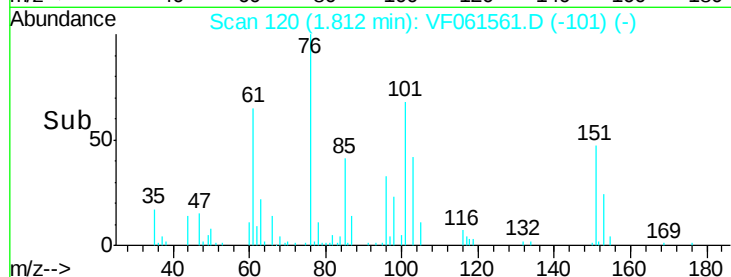
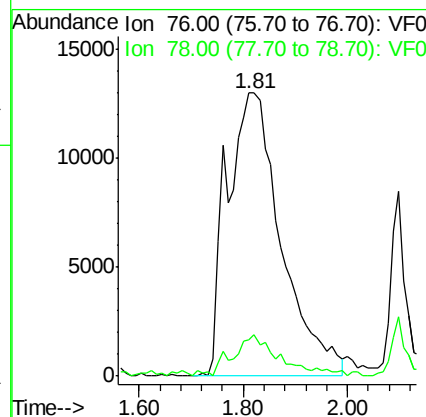
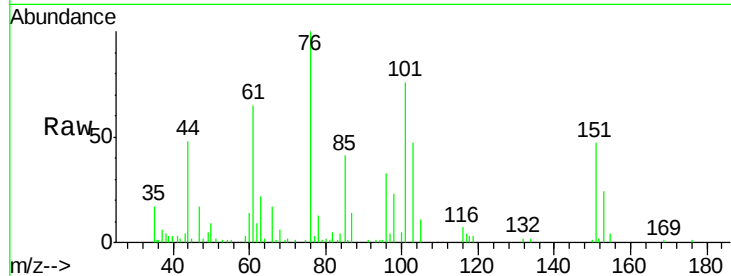
#17
Carbon Disulfide
Concen: 20.650 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion: 76 Resp: 92780
Ion Ratio Lower Upper
76 100
78 13.0 9.6 14.4

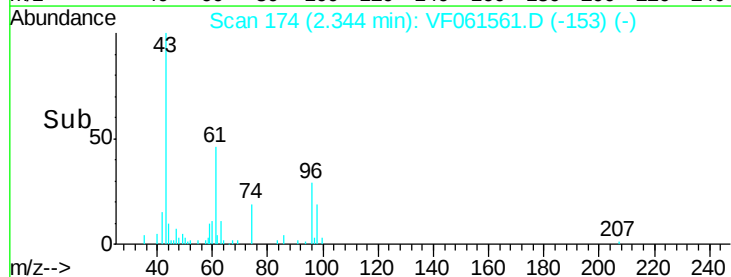
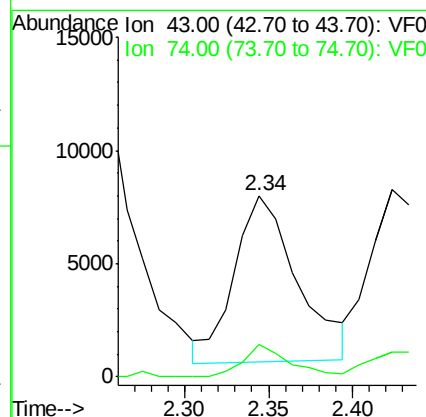
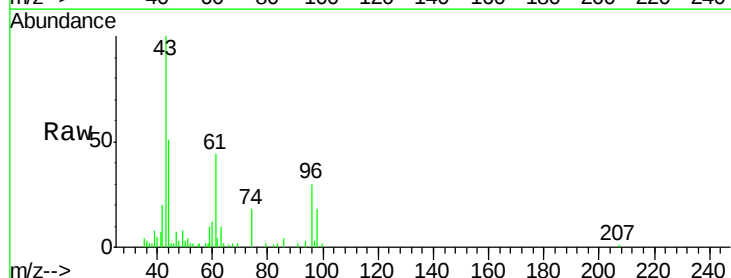
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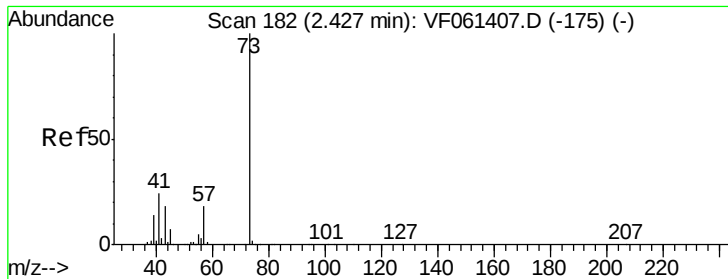
MMDadoda
2/12/2019 2:32:06 AM



#18
Methyl Acetate
Concen: 24.050 ug/l
RT: 2.34 min Scan# 174
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion: 43 Resp: 19139
Ion Ratio Lower Upper
43 100
74 17.6 13.4 20.0





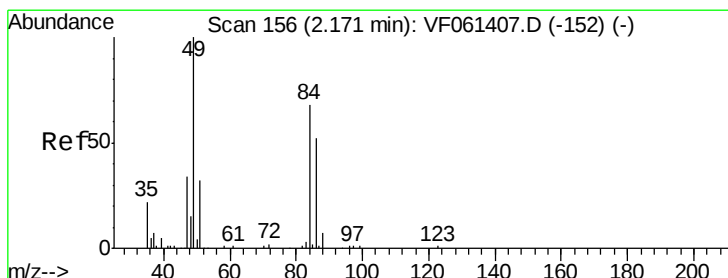
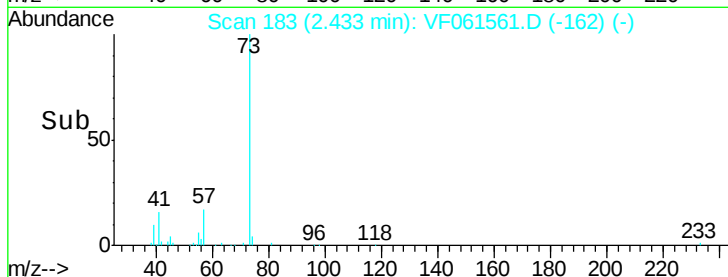
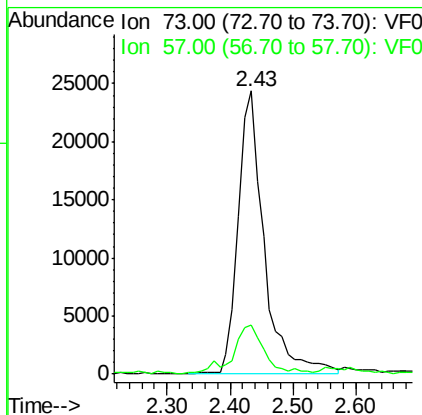
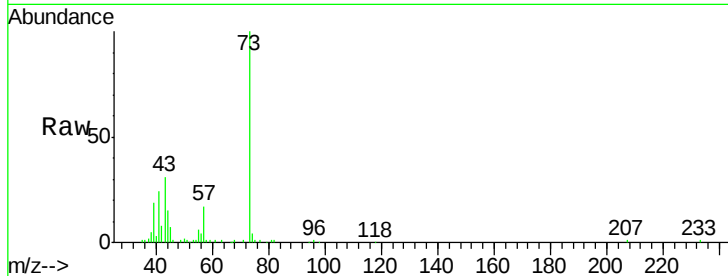
#19
Methvl tert-butvl Ether
Concen: 21.535 ug/l
RT: 2.43 min Scan# 183
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	17.4	14.8	22.2

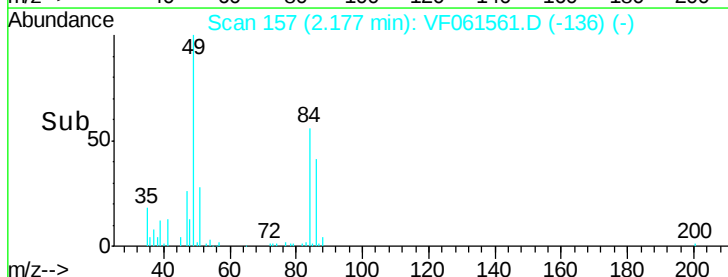
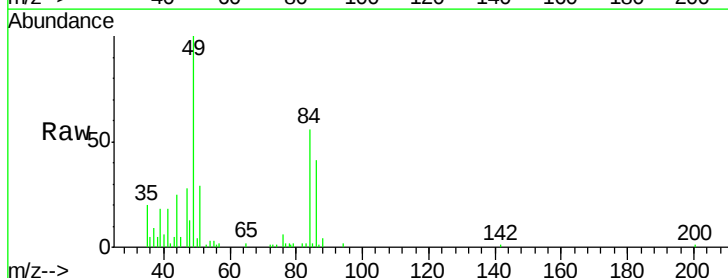
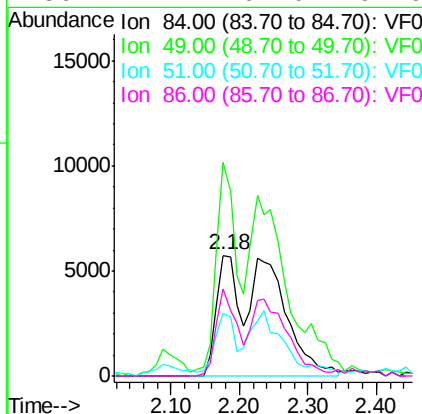
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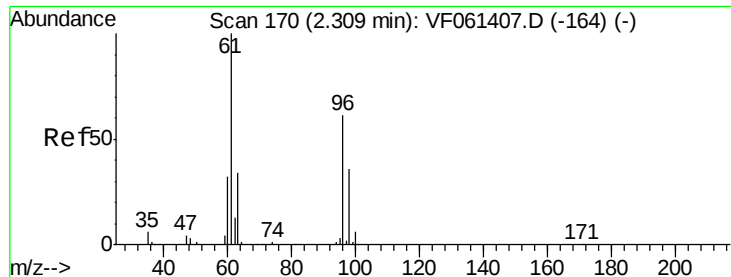
MMDadoda
2/12/2019 2:32:06 AM



#20
Methylene Chloride
Concen: 23.391 ug/l m
RT: 2.18 min Scan# 157
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
84	100		
49	177.4	120.0	180.0
51	51.8	38.6	58.0
86	72.4	61.0	91.6





#21

trans-1,2-Dichloroethene

Concen: 21.455 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

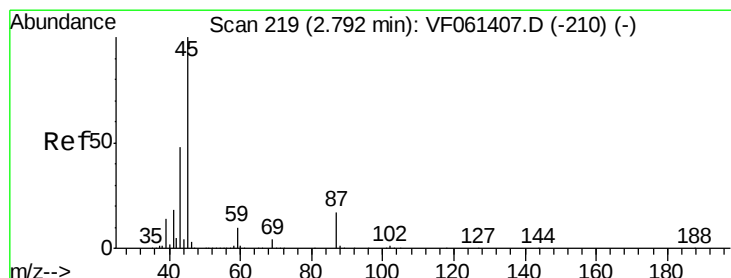
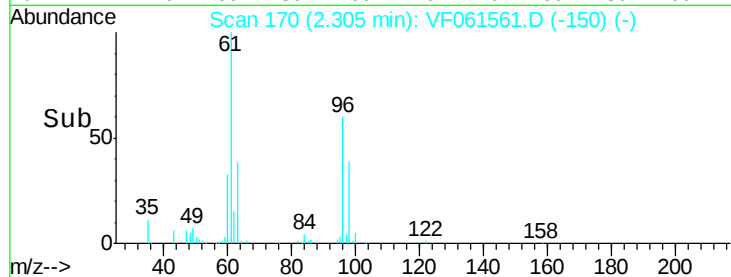
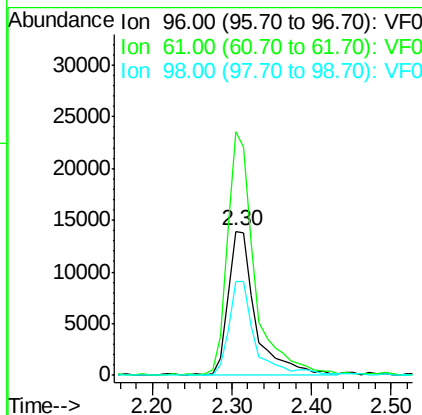
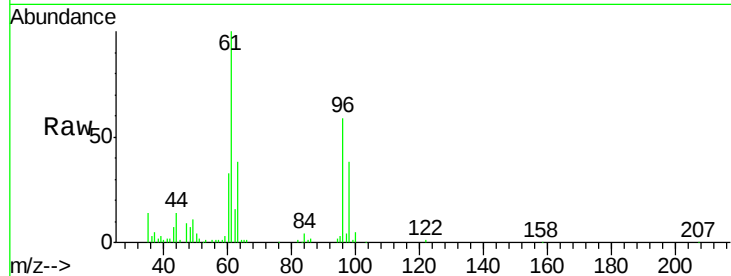
ClientSampleId :

VF0208SBS01

Tot Ion:	96	Resp:	34014
Ion	Ratio	Lower	Upper
96	100		
61	168.7	131.8	197.8
98	64.8	47.4	71.0

Manual Integrations
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2/12/2019 2:32:06 AM



#22

Diisopropyl ether

Concen: 22.134 ug/l

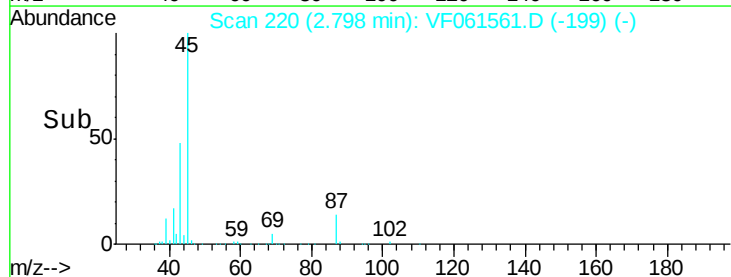
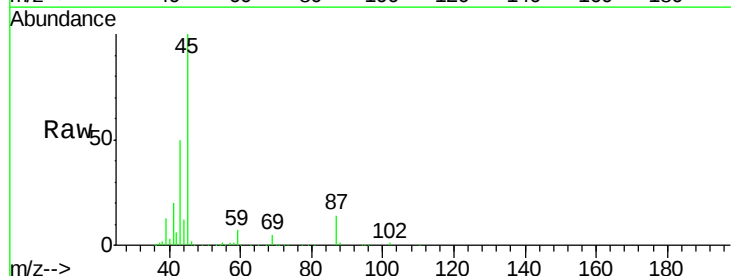
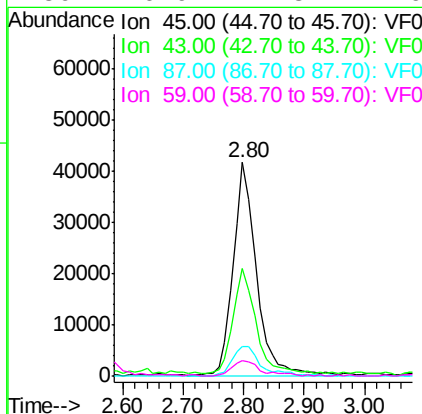
RT: 2.80 min Scan# 220

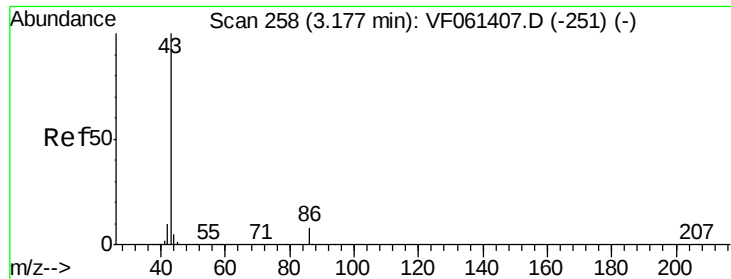
Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	45	Resp:	113498
Ion	Ratio	Lower	Upper
45	100		
43	50.3	39.0	58.6
87	13.7	13.9	20.9#
59	6.9	7.8	11.6#





#23

Vinyl Acetate

Concen: 116.645 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 43 Resp: 259197

Ion Ratio Lower Upper

43 100

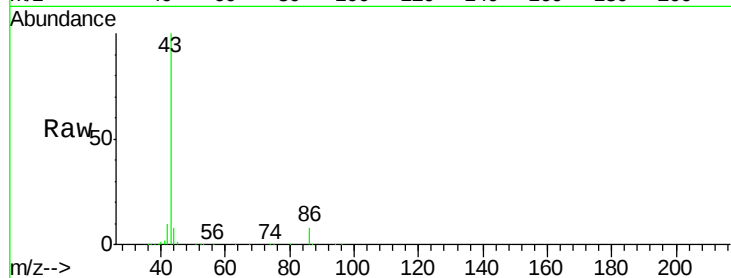
86 7.8 6.2 9.4

Manual Integrations

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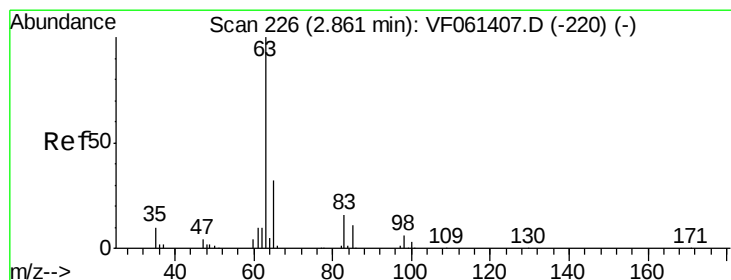
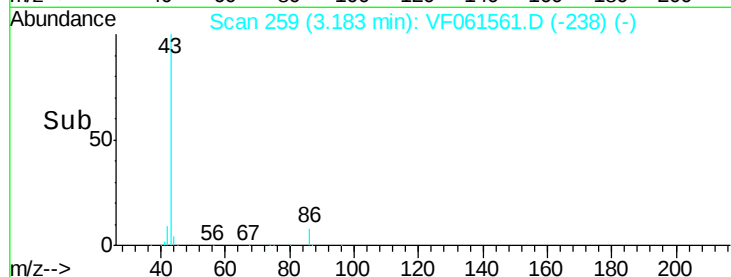
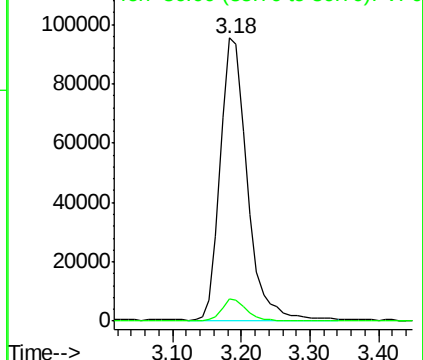
MMDadoda

2/12/2019 2:32:06 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 21.861 ug/l

RT: 2.87 min Scan# 227

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

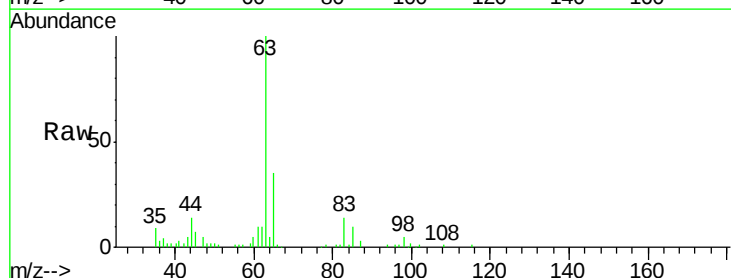
Tgt Ion: 63 Resp: 70357

Ion Ratio Lower Upper

63 100

98 4.9 2.9 8.8

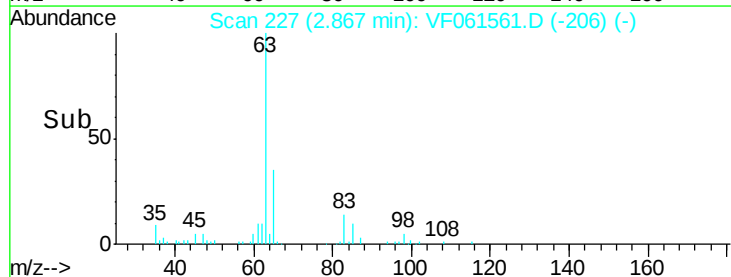
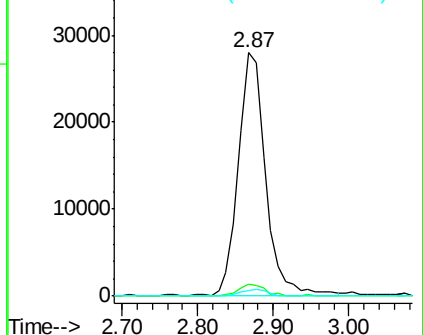
100 2.0 1.6 4.8

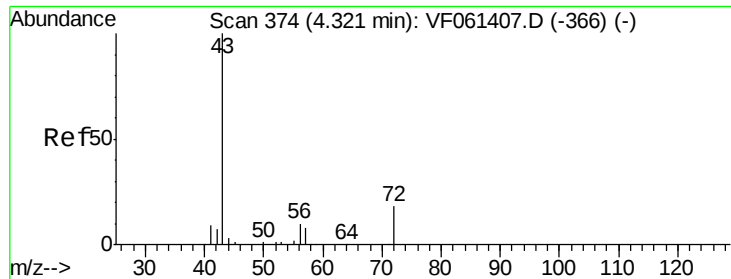


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 120.656 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 43 Resp: 80515

Ion Ratio Lower Upper

43 100

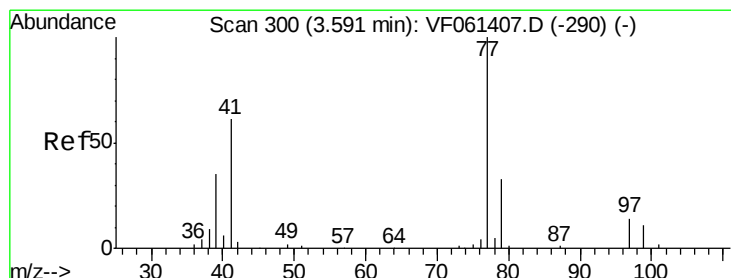
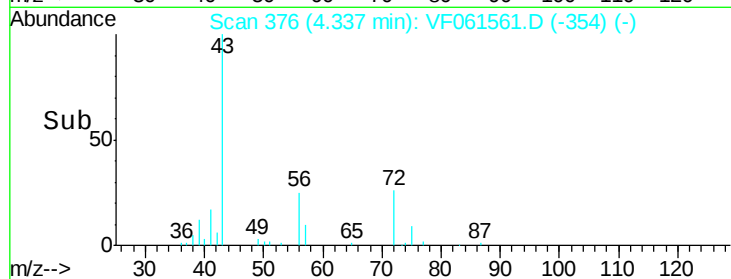
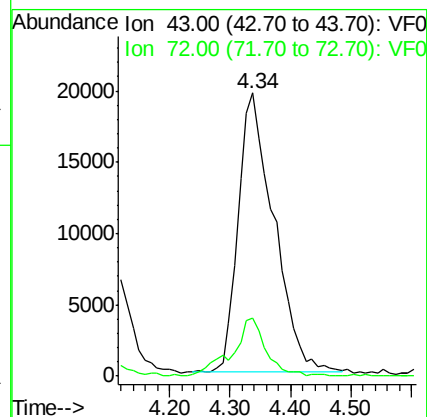
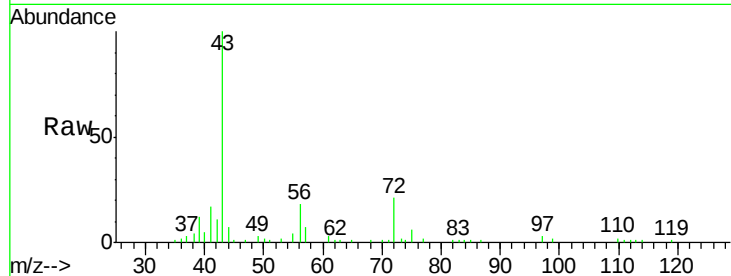
72 20.7 15.8 23.6

Manual Integrations

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MMDadoda

2/12/2019 2:32:06 AM



#26

2,2-Dichloropropane

Concen: 22.021 ug/l

RT: 3.60 min Scan# 301

Delta R.T. 0.01 min

Lab File: VF061561.D

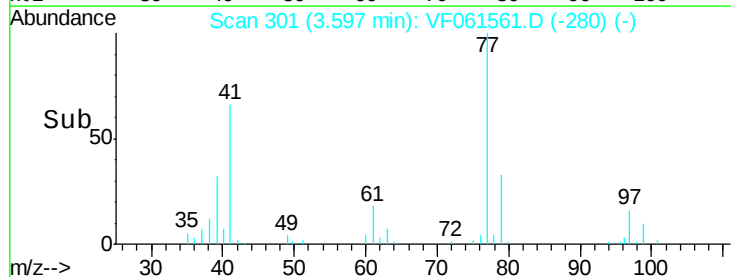
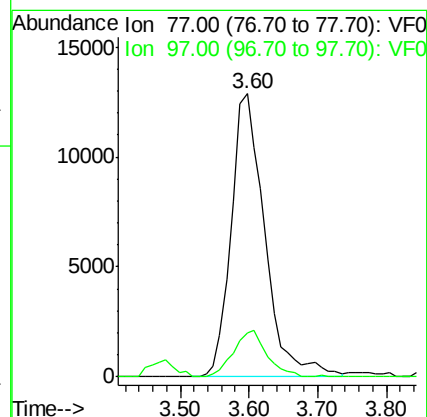
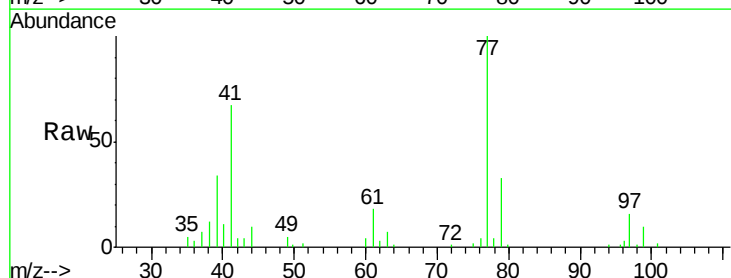
Acq: 8 Feb 2019 16:50

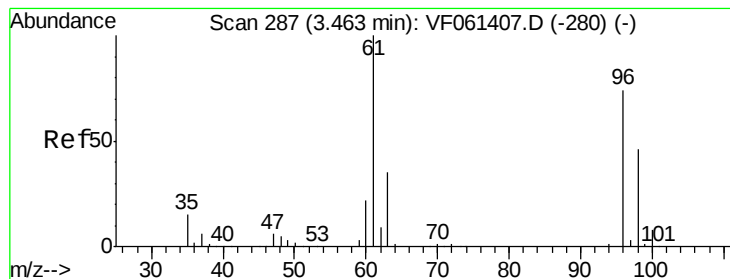
Tgt Ion: 77 Resp: 43542

Ion Ratio Lower Upper

77 100

97 15.5 8.5 25.5





#27

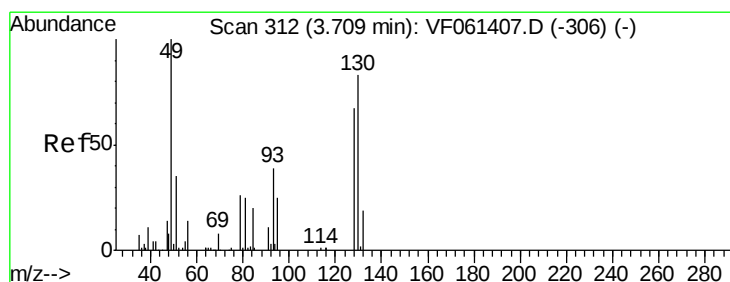
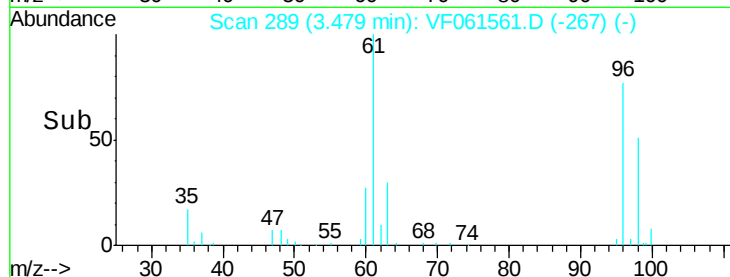
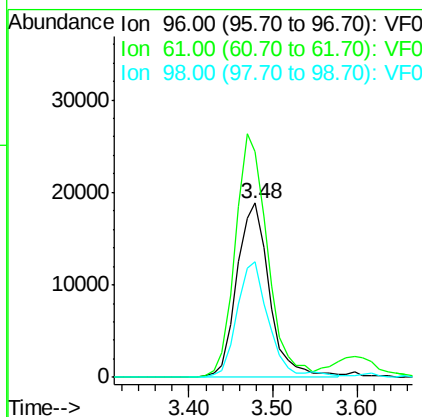
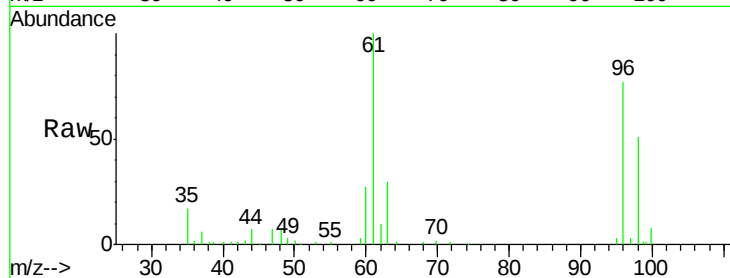
cis-1,2-Dichloroethene
Concen: 21.821 ug/l
RT: 3.48 min Scan# 289
Delta R.T. 0.02 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	129.9	0.0	270.2	
98	66.5	0.0	124.0	

Manual Integrations
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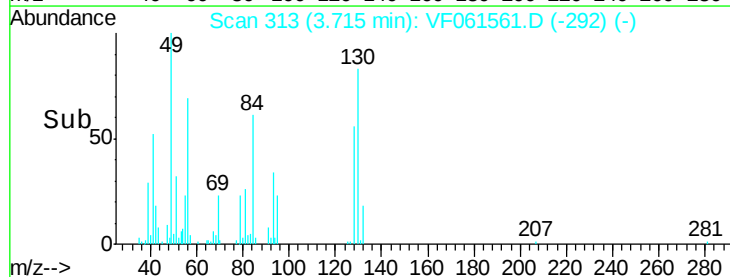
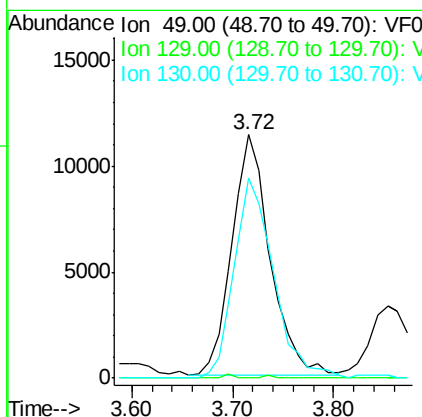
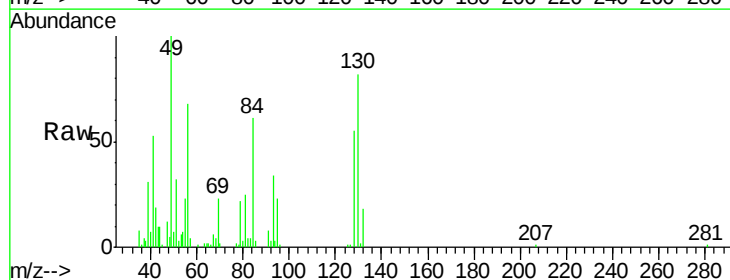
MMDadoda
2/12/2019 2:32:06 AM

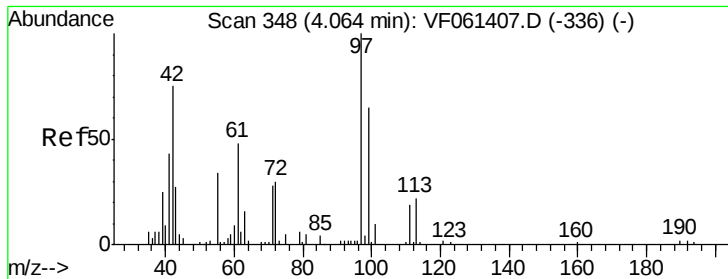


#28

Bromochloromethane
Concen: 20.737 ug/l
RT: 3.72 min Scan# 313
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	0.0	0.0	0.0	
130	82.4	65.4	98.2	





#29

Tetrahydrofuran

Concen: 101.386 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

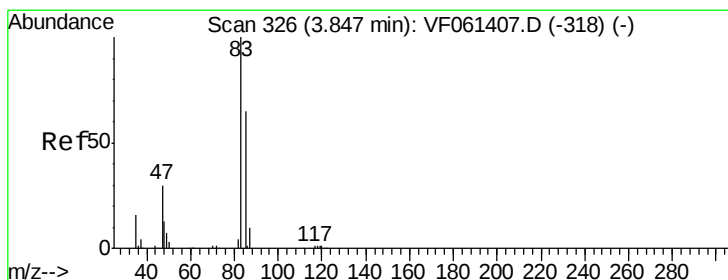
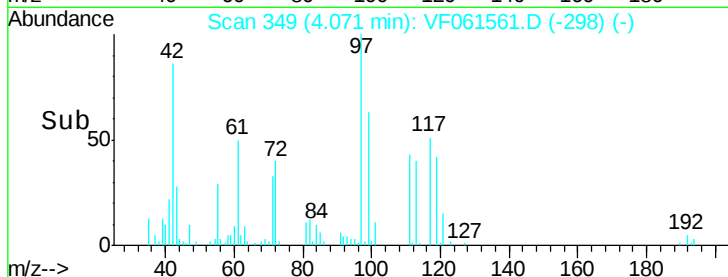
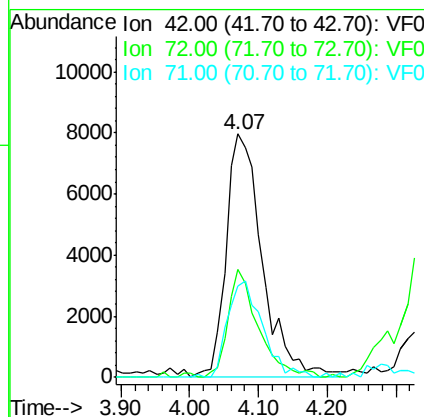
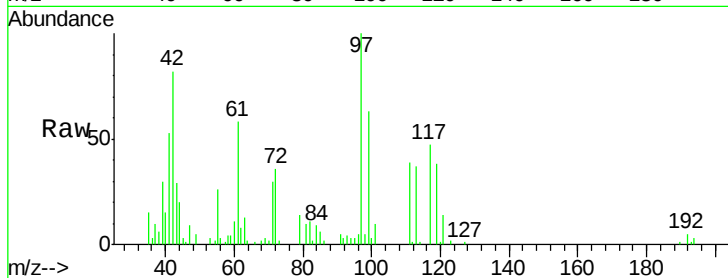
ClientSampleId :

VF0208SBS01

Tot Ion:	42	Resp:	29132
Ion Ratio		Lower	Upper
42	100		
72	37.1	28.9	43.3
71	37.9	29.6	44.4

Manual Integrations
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#30

Chloroform

Concen: 22.594 ug/l

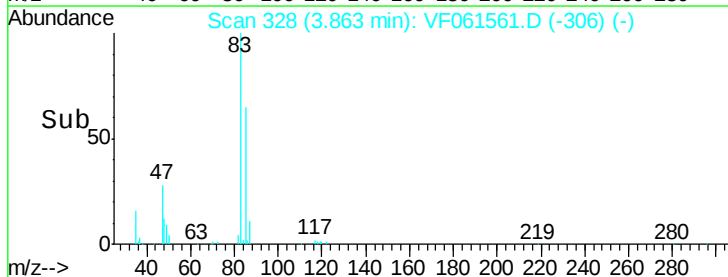
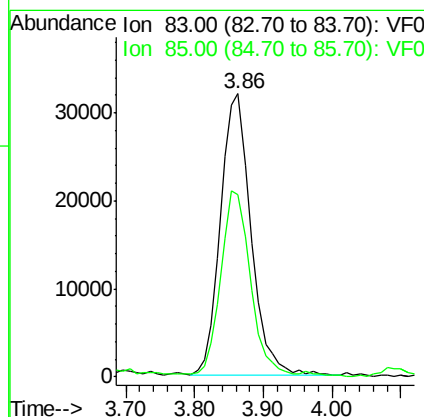
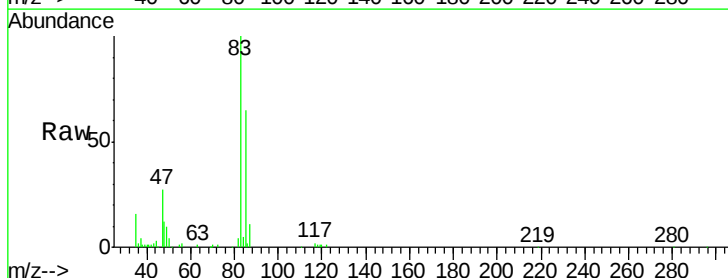
RT: 3.86 min Scan# 328

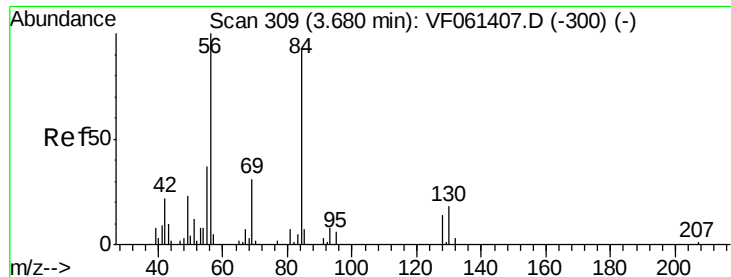
Delta R.T. 0.02 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	83	Resp:	98137
Ion Ratio		Lower	Upper
83	100		
85	64.5	52.7	79.1





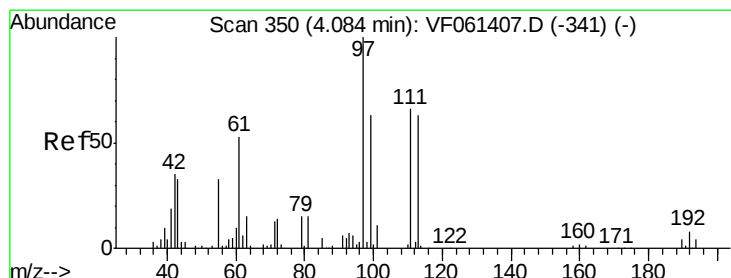
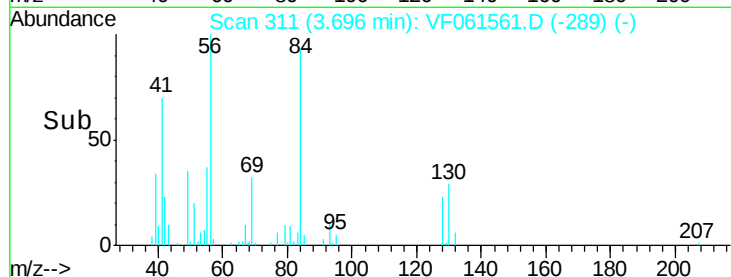
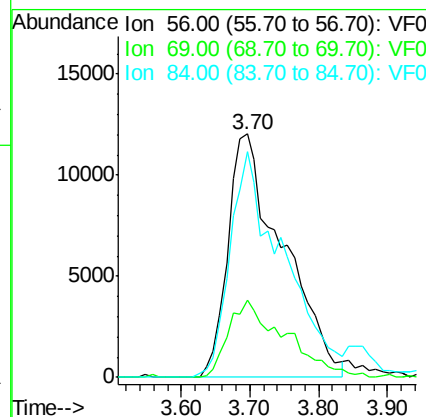
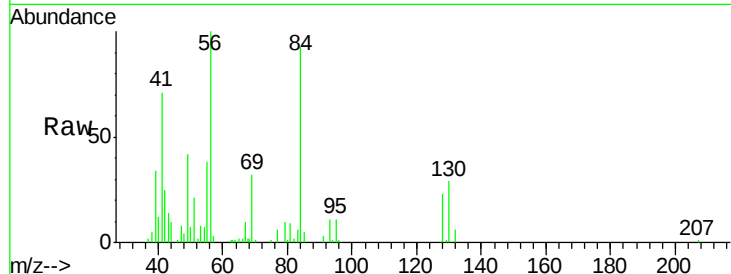
#31
Cyclohexane
Concen: 20.731 ug/l
RT: 3.70 min Scan# 311
Delta R.T. 0.02 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.6	36.8
84	92.8	74.2	111.2

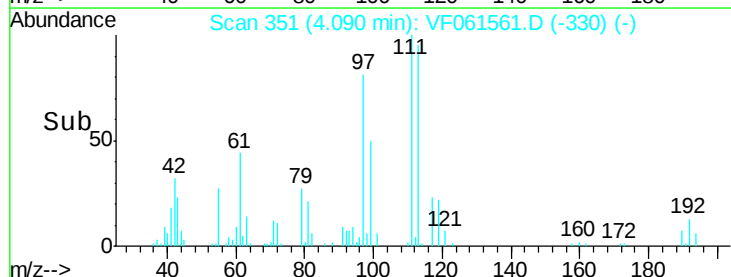
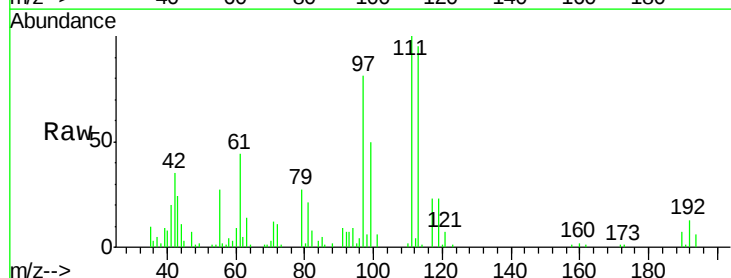
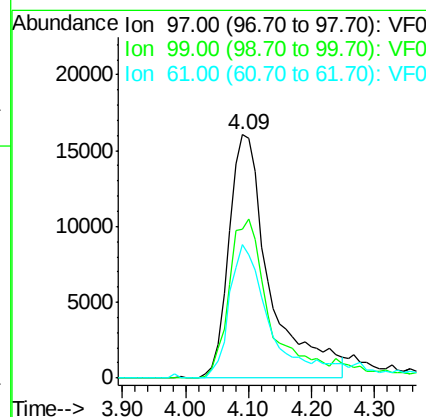
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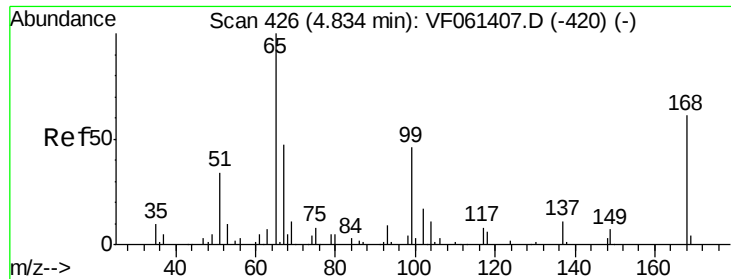
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#32
1,1,1-Trichloroethane
Concen: 22.767 ug/l
RT: 4.09 min Scan# 351
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.3	50.1	75.1
61	54.7	43.1	64.7





#33

1,2-Dichloroethane-d4

Concen: 52.659 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tot Ion: 65 Resp: 105332

Ion Ratio Lower Upper

65 100

67 45.0 0.0 99.8

Instrument :

MSVOA_F

ClientSampleId :

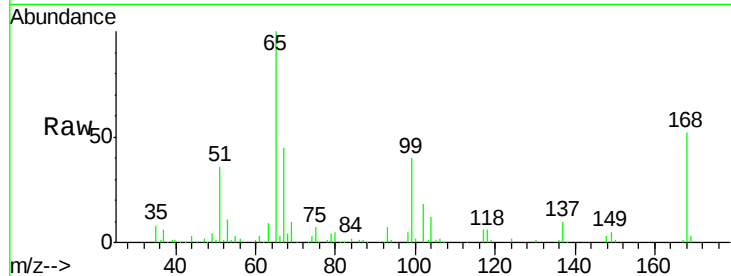
VF0208SBS01

Manual Integrations

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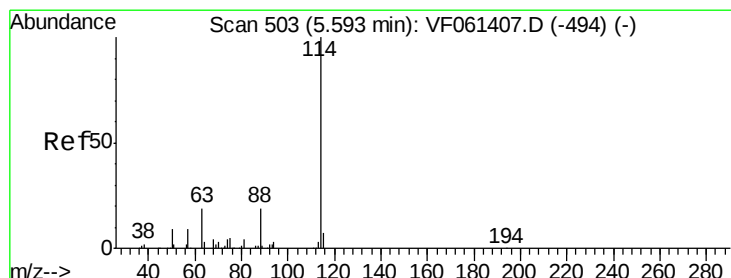
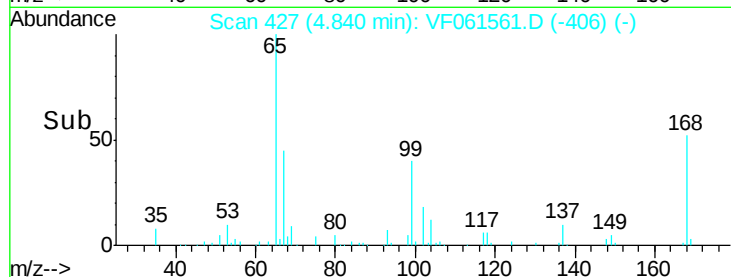
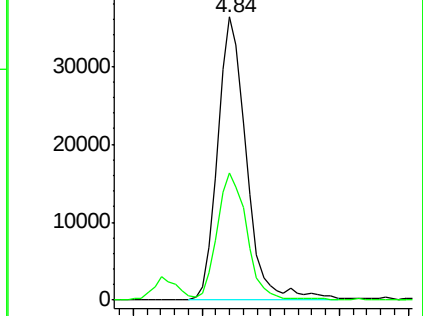
MMDadoda

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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

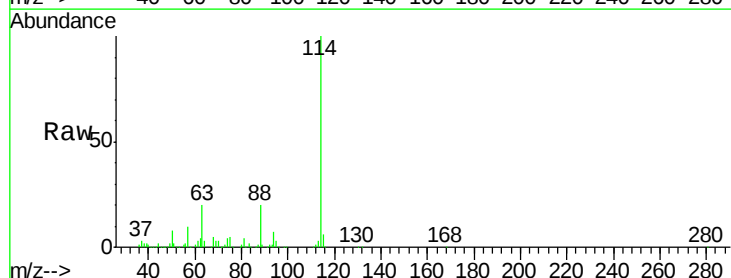
Tgt Ion:114 Resp: 288369

Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

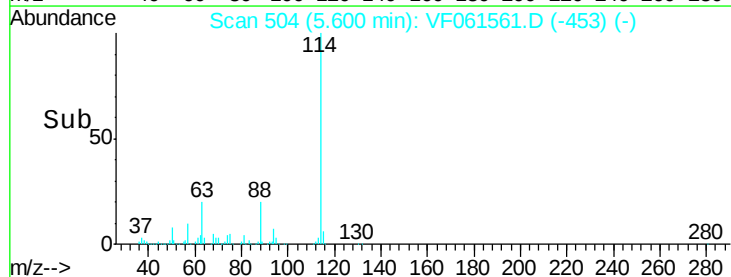
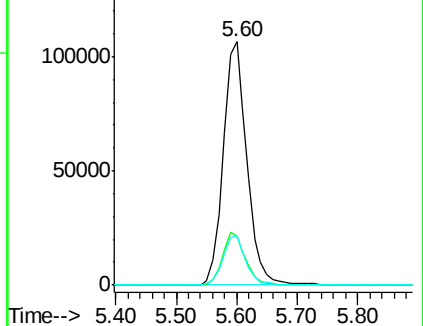
88 20.1 0.0 37.4

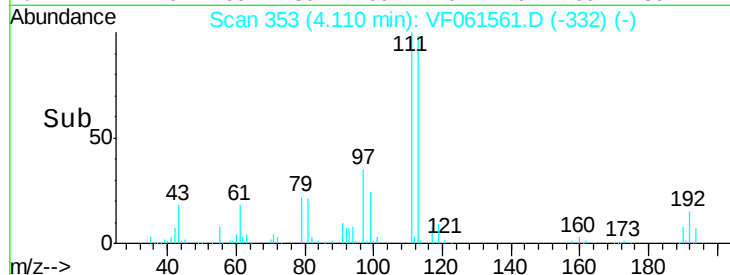
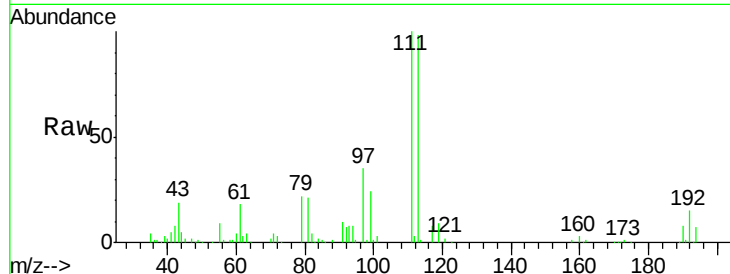
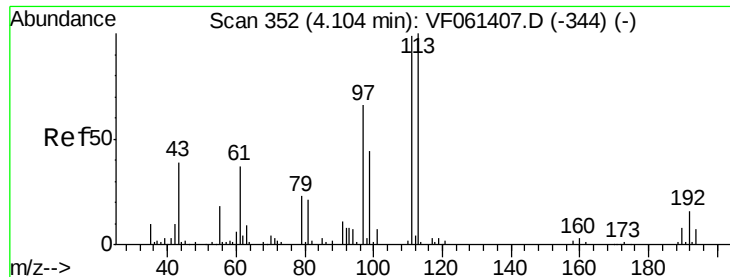


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





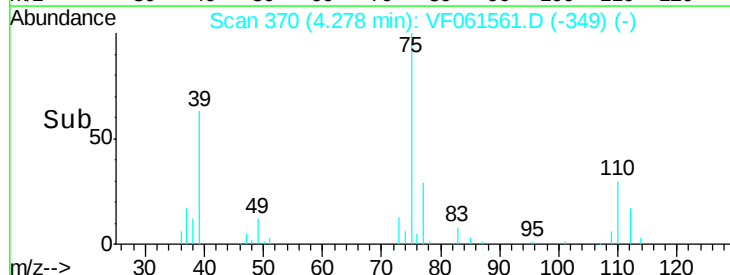
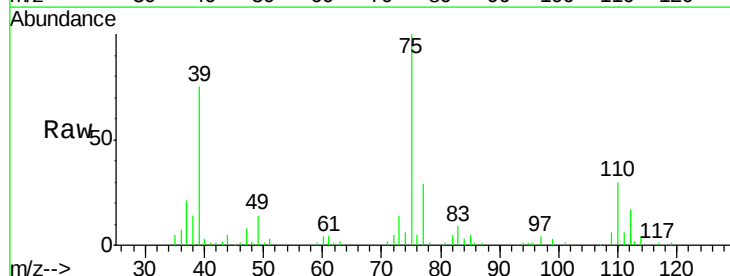
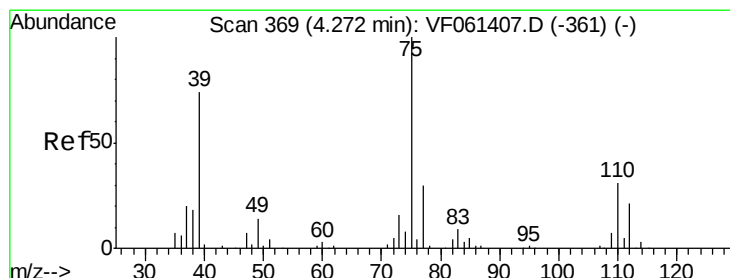
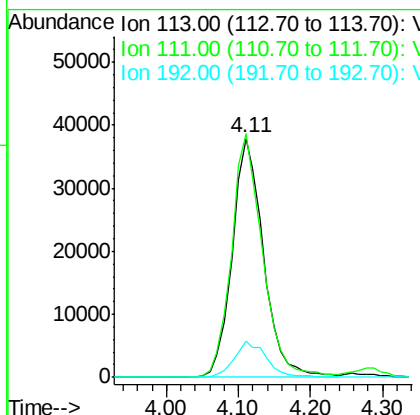
#35
Dibromofluoromethane
Concen: 50.430 ug/l
RT: 4.11 min Scan# 353
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.8	79.4	119.0	
192	15.4	12.4	18.6	

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

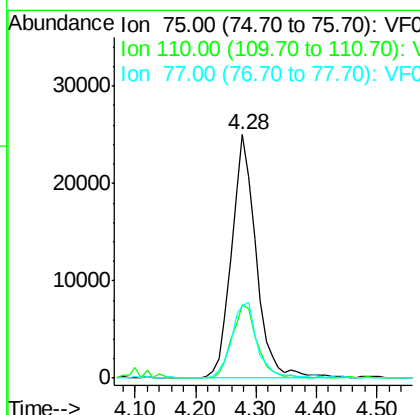
Manual Integrations
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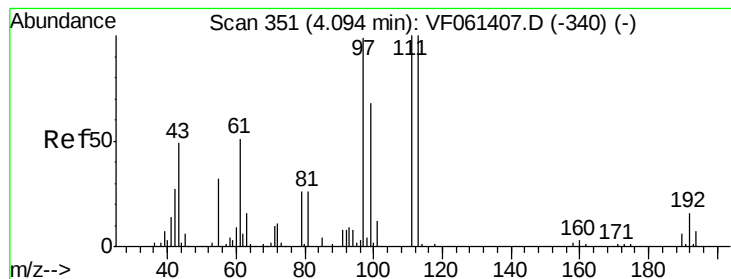
MMDadoda
2/12/2019 2:32:06 AM



#36
1,1-Dichloropropene
Concen: 21.166 ug/l
RT: 4.28 min Scan# 370
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	30.0	15.8	47.3	
77	29.5	24.0	36.0	





#37

Ethyl Acetate

Concen: 21.684 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.02 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

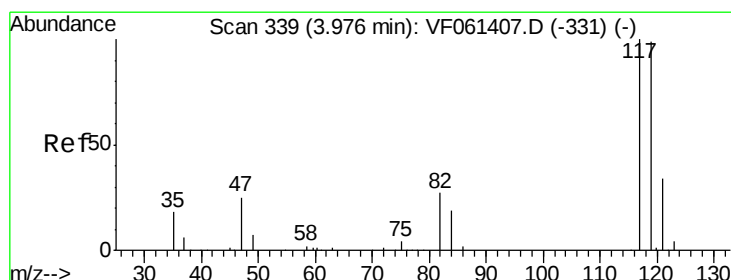
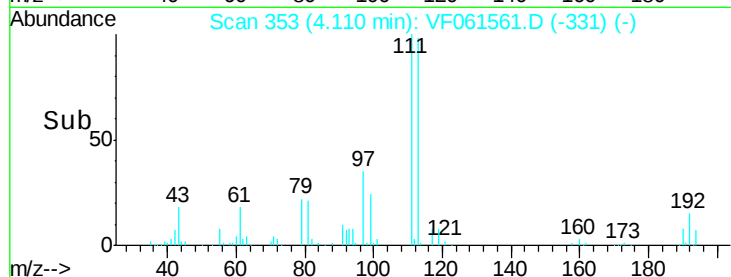
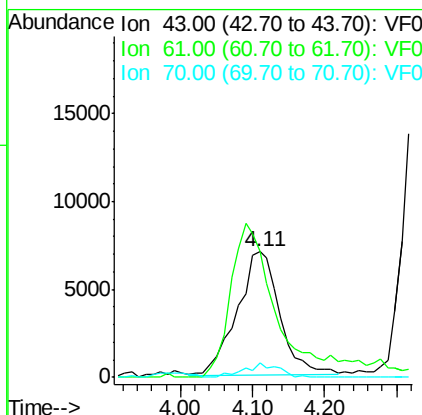
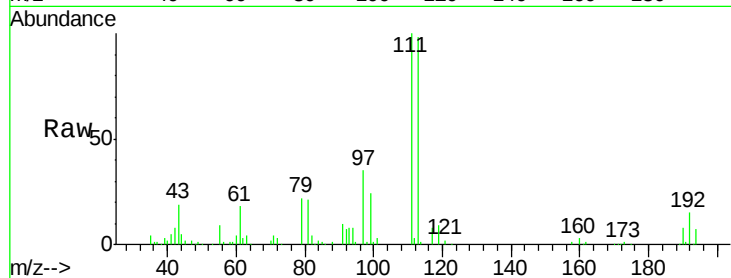
ClientSampleId :

VF0208SBS01

Tot Ion:	43	Resp:	28981
Ion	Ratio	Lower	Upper
43	100		
61	99.9	81.7	122.5
70	11.2	6.2	9.2#

Manual Integrations
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2/12/2019 2:32:06 AM



#38

Carbon Tetrachloride

Concen: 22.110 ug/l

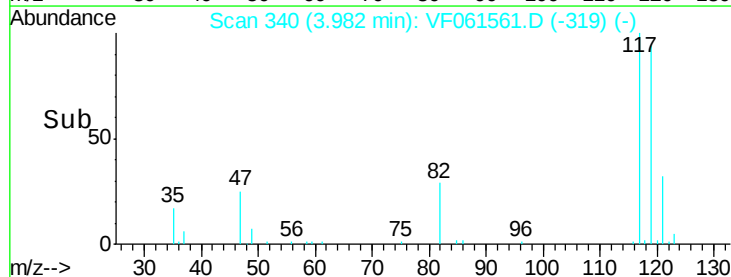
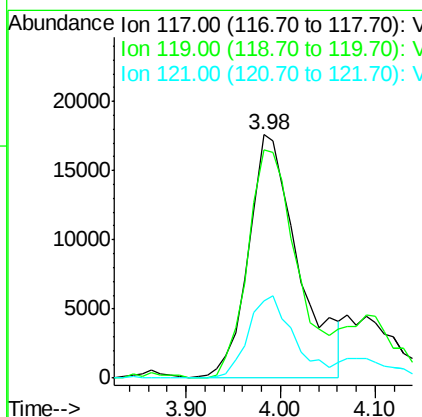
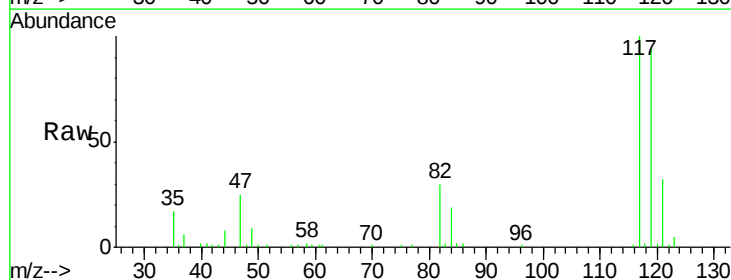
RT: 3.98 min Scan# 340

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	117	Resp:	64629
Ion	Ratio	Lower	Upper
117	100		
119	93.5	79.0	118.6
121	31.6	27.0	40.6





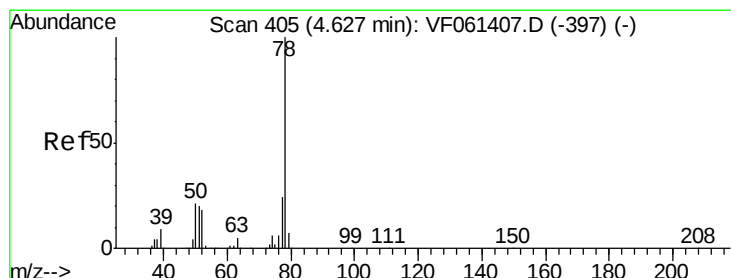
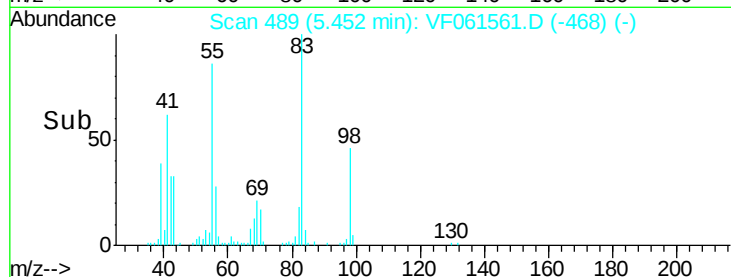
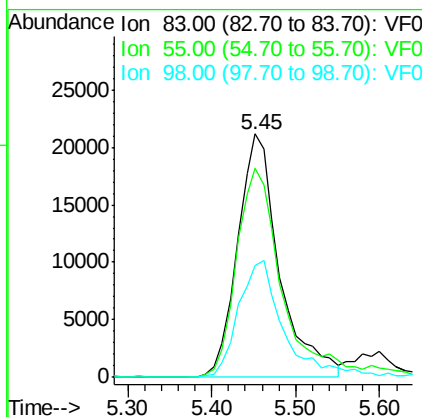
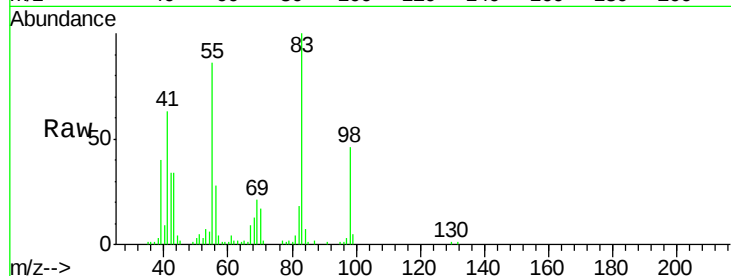
#39
Methvlcvclohexane
Concen: 20.271 ug/l
RT: 5.45 min Scan# 489
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	86.0	67.4	101.2
98	45.7	36.7	55.1

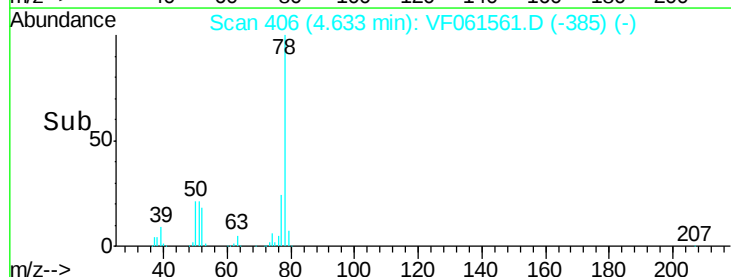
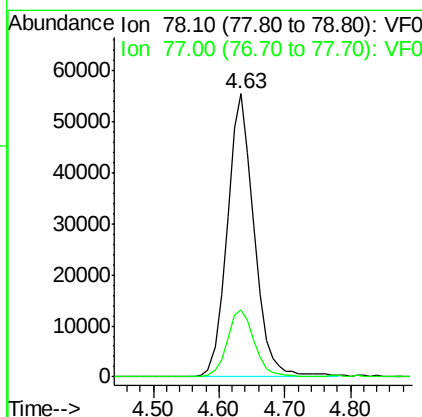
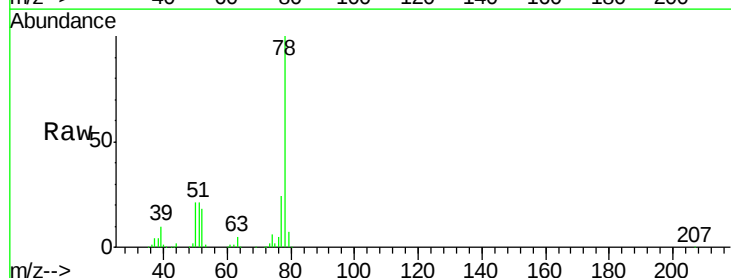
Manual Integrations
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#40
Benzene
Concen: 21.338 ug/l
RT: 4.63 min Scan# 406
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6





#41

Methacrylonitrile

Concen: 23.691 ug/l

RT: 4.74 min Scan# 417

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

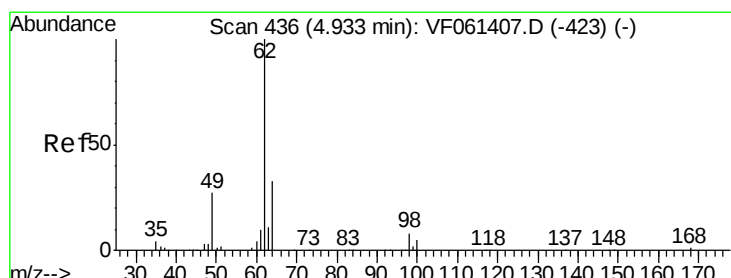
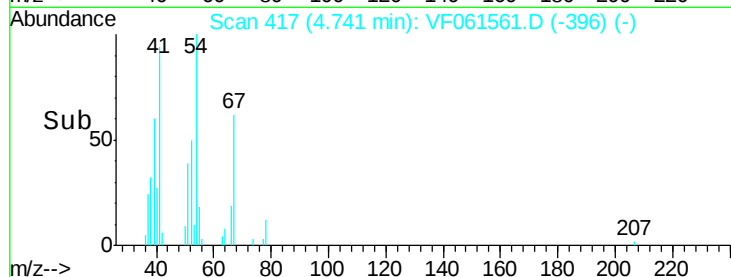
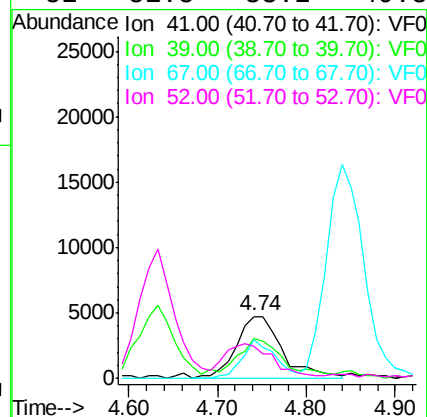
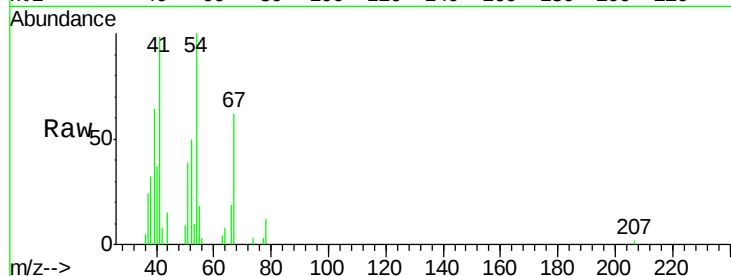
ClientSampleId :

VF0208SBS01

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	64.9	43.1	64.7#	
67	62.9	38.8	58.2#	
52	51.5	33.2	49.8#	

Manual Integrations
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#42

1,2-Dichloroethane

Concen: 20.779 ug/l

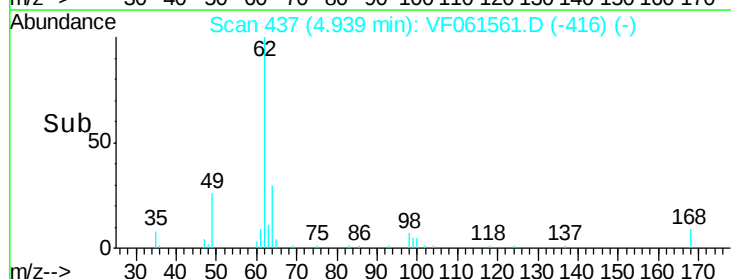
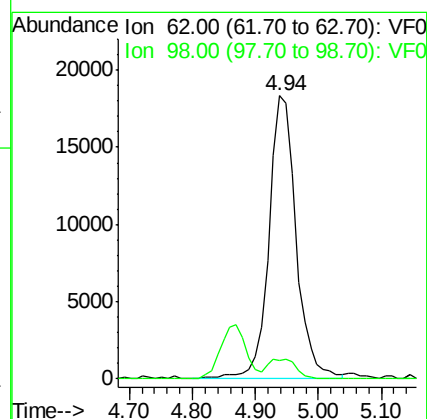
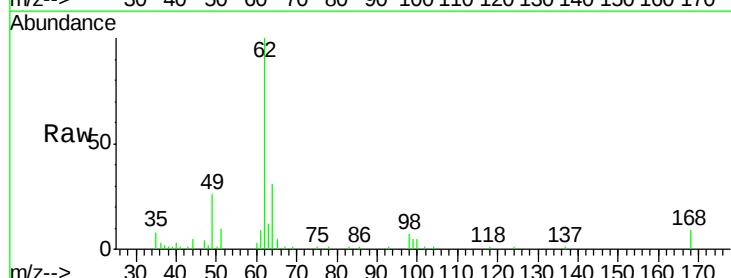
RT: 4.94 min Scan# 437

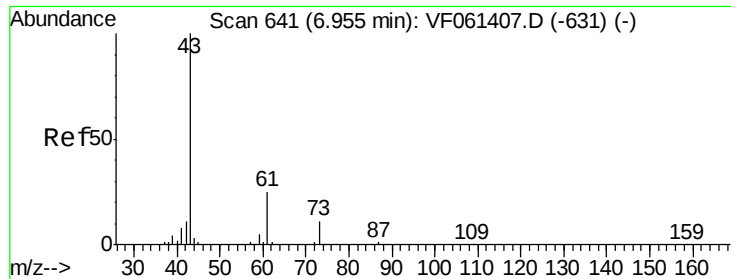
Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	6.6	0.0	17.0	





#43

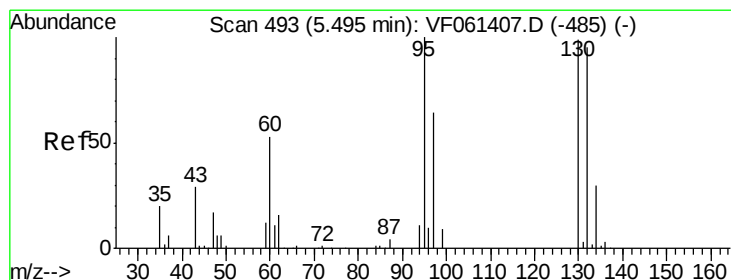
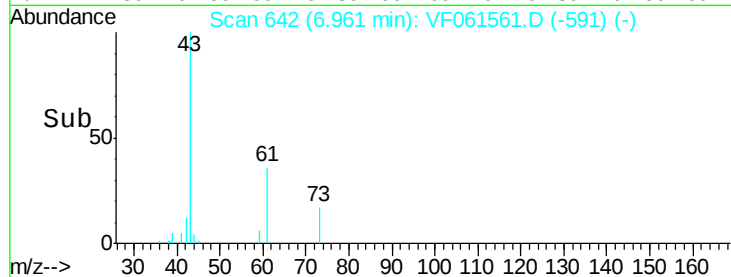
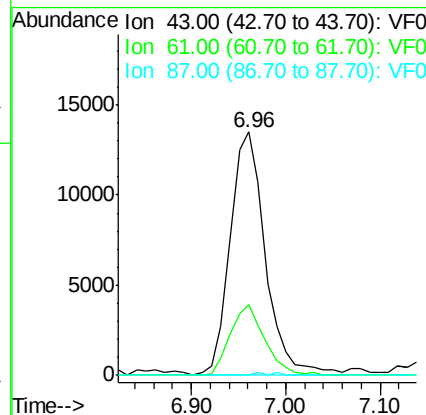
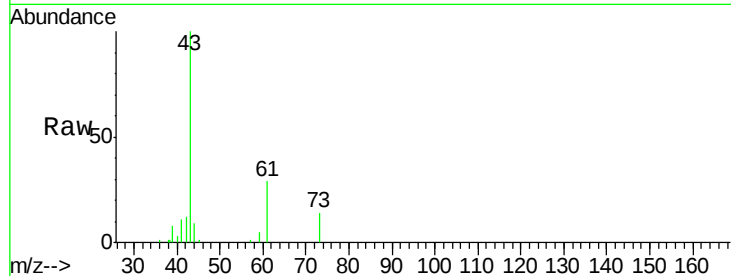
Isopropyl Acetate
 Concen: 20.740 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Tot Ion	43	61	87	Resp	Lower	Upper
34790	100	29.1	0.0			
		20.3	0.5			
		30.5	0.7			

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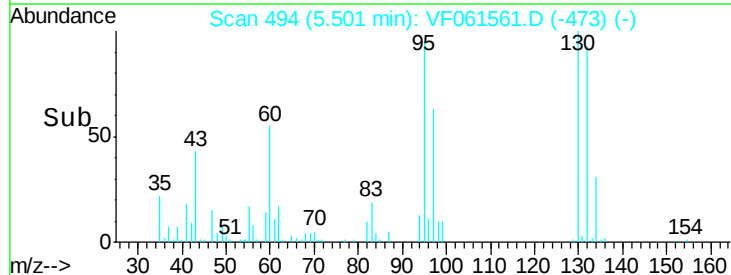
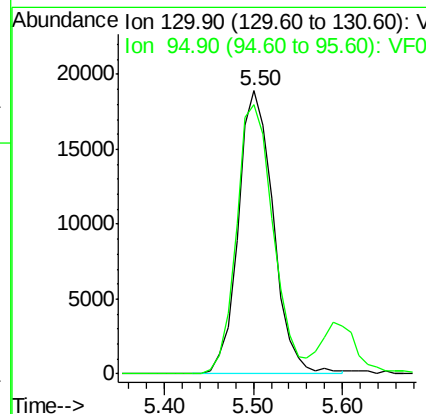
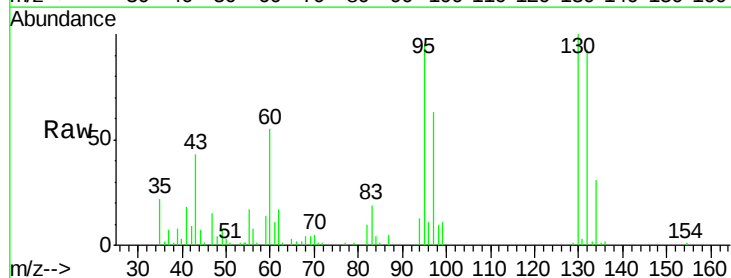
MMDadoda
 2/12/2019 2:32:06 AM

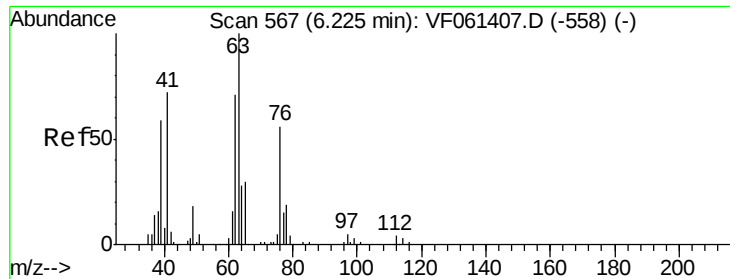


#44

Trichloroethene
 Concen: 22.635 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Tgt Ion	130	95	Resp	Lower	Upper
51659	100	95.1			
		0.0			
		202.8			





#45

1,2-Dichloropropane

Concen: 21.319 ug/l

RT: 6.24 min Scan# 569

Delta R.T. 0.02 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 63 Resp: 41628

Ion Ratio Lower Upper

63 100

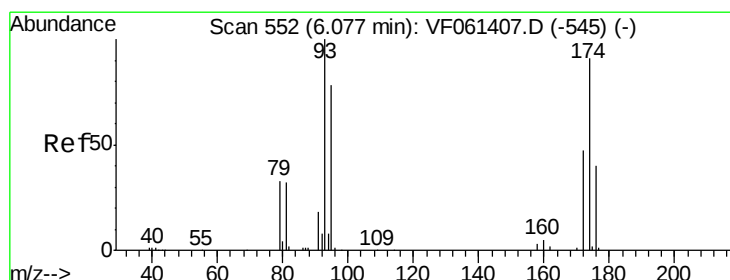
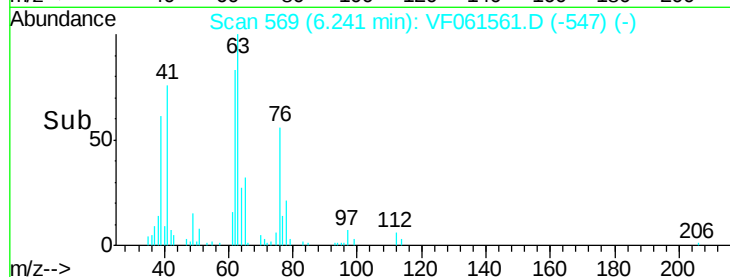
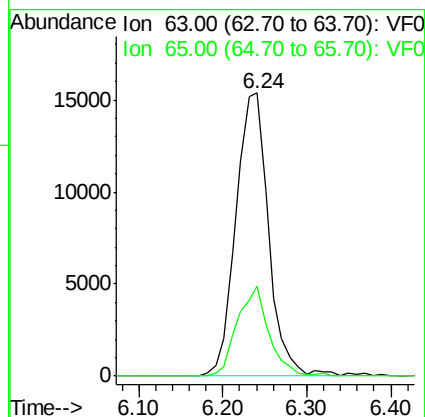
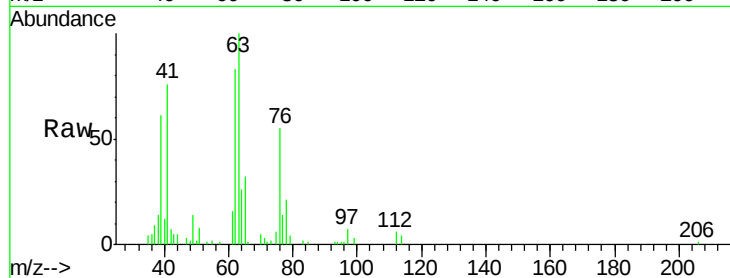
65 31.9 24.4 36.6

Manual Integrations

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#46

Dibromomethane

Concen: 20.272 ug/l

RT: 6.08 min Scan# 553

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

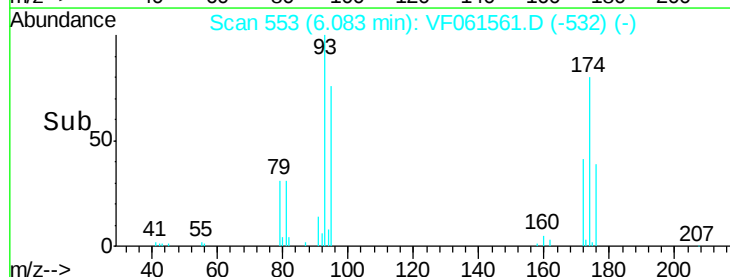
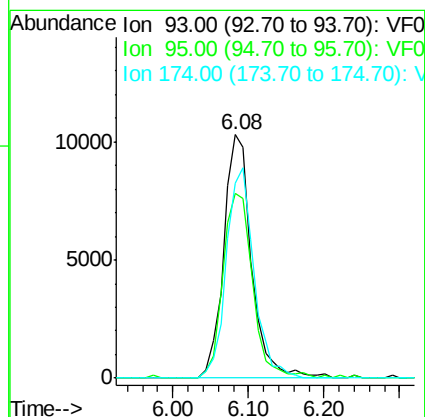
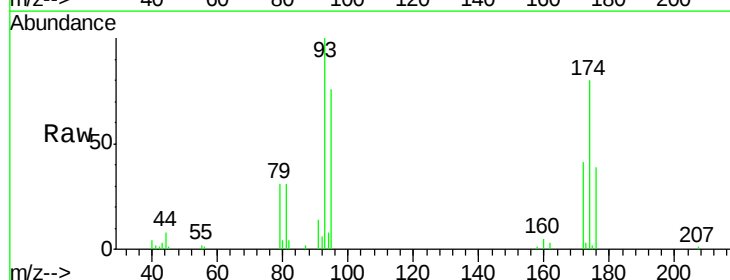
Tgt Ion: 93 Resp: 26321

Ion Ratio Lower Upper

93 100

95 76.1 62.1 93.1

174 79.8 74.6 111.8





#47

Bromodichloromethane

Concen: 21.607 ug/l

RT: 6.38 min Scan# 583

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

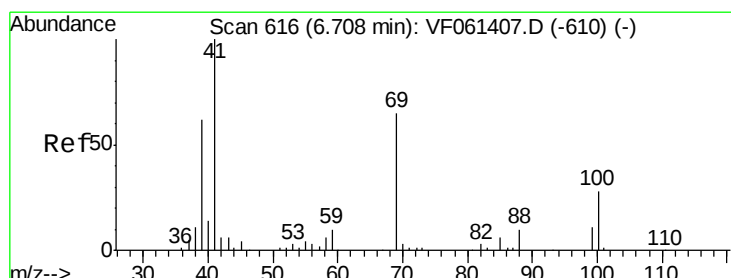
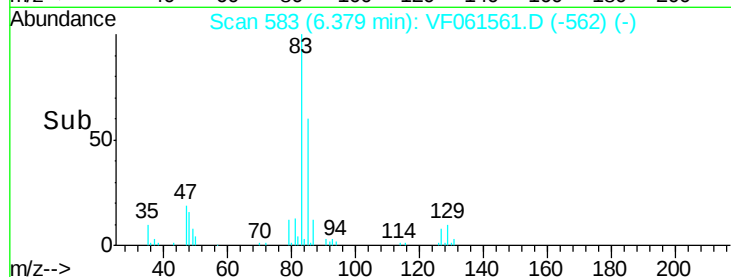
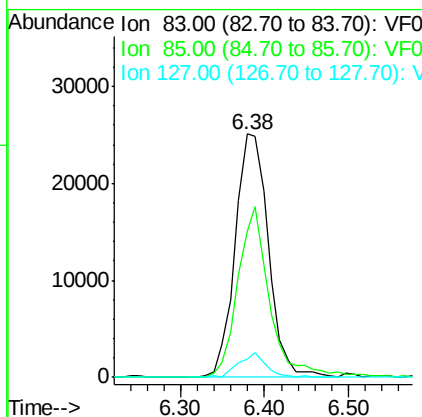
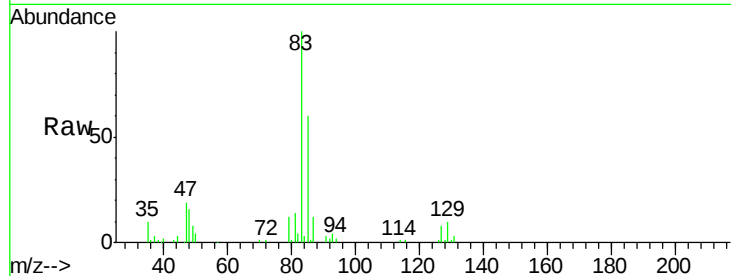
ClientSampleId :

VF0208SBS01

Tot Ion:	83	Resp:	69412
Ion	Ratio	Lower	Upper
83	100		
85	59.9	53.0	79.4
127	7.8	6.9	10.3

Manual Integrations
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2/12/2019 2:32:06 AM



#48

Methyl methacrylate

Concen: 21.180 ug/l

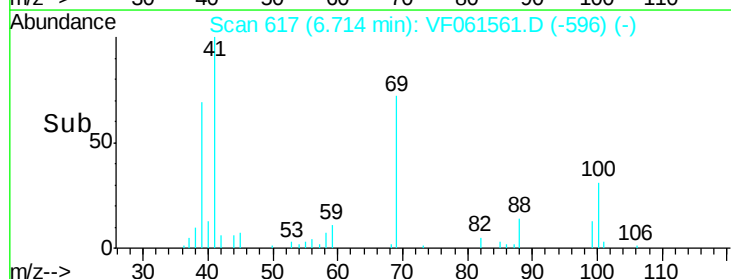
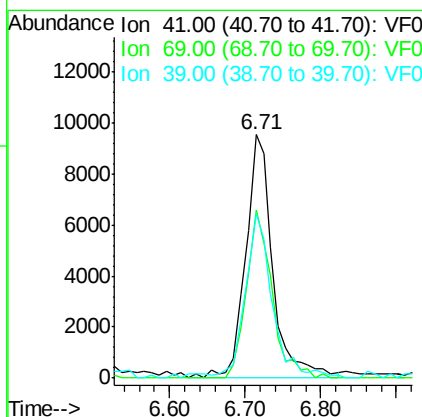
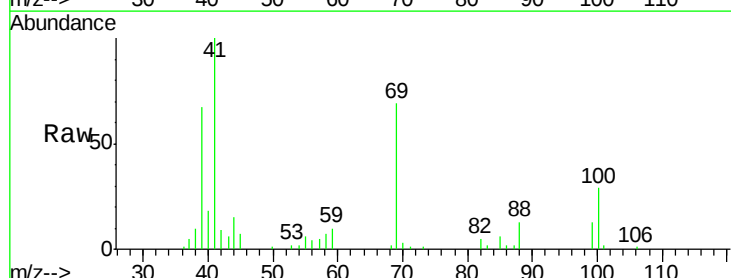
RT: 6.71 min Scan# 617

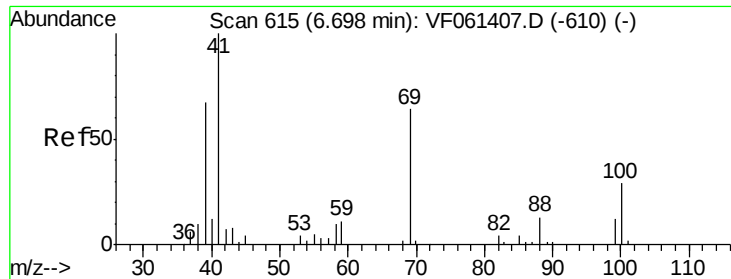
Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	41	Resp:	23857
Ion	Ratio	Lower	Upper
41	100		
69	69.1	51.7	77.5
39	67.3	49.2	73.8





#49

1,4-Dioxane

Concen: 364.672 ug/l

RT: 6.71 min Scan# 617

Delta R.T. 0.02 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

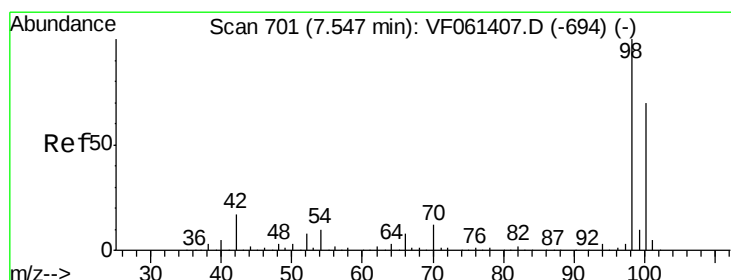
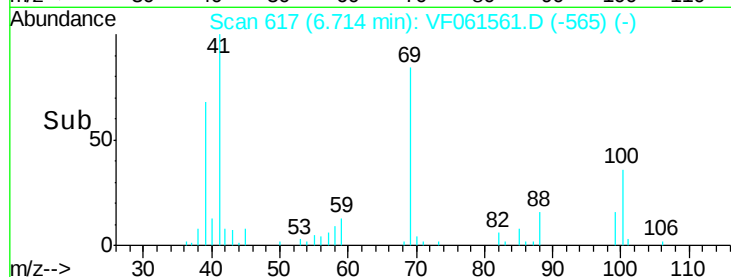
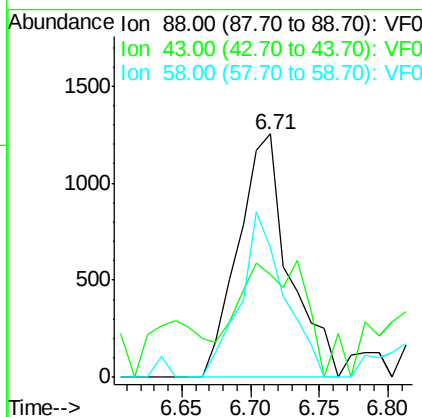
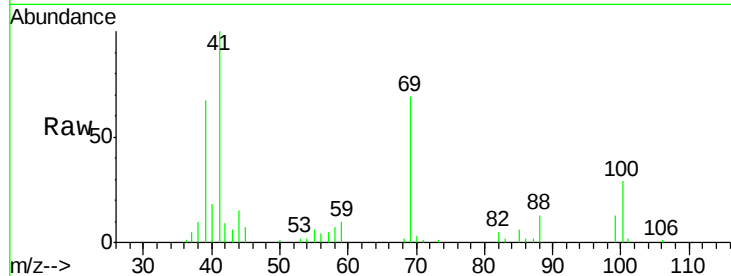
ClientSampleId :

VF0208SBS01

Tot Ion:	88	Resp:	3214
Ion	Ratio	Lower	Upper
88	100		
43	42.4	55.5	83.3#
58	53.5	59.9	89.9#

Manual Integrations
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#50

Toluene-d8

Concen: 49.466 ug/l

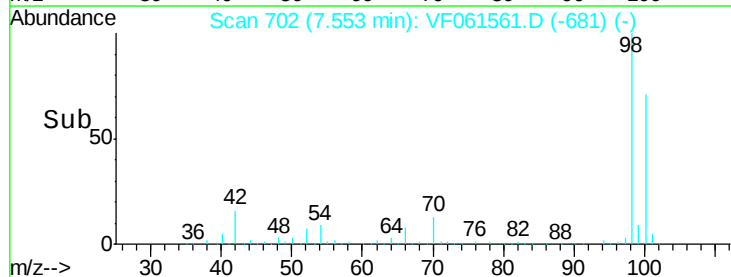
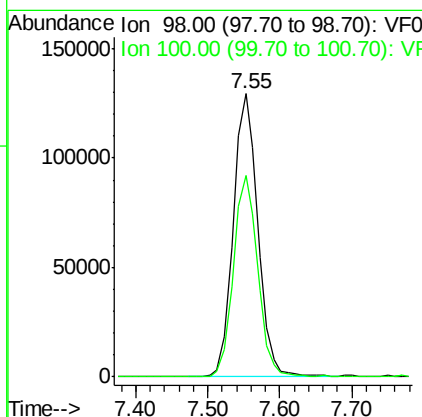
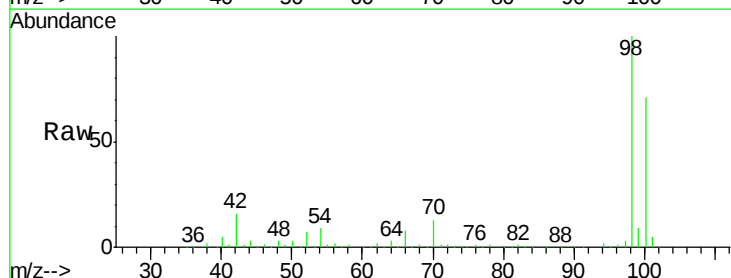
RT: 7.55 min Scan# 702

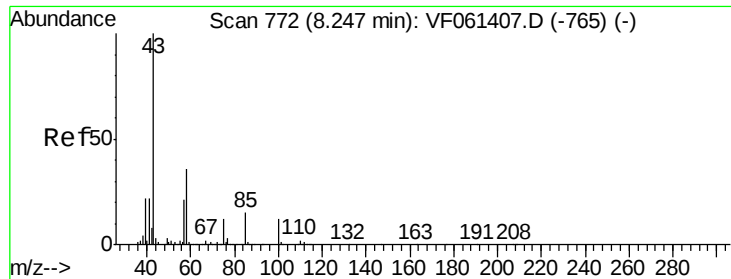
Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	98	Resp:	308393
Ion	Ratio	Lower	Upper
98	100		
100	71.3	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 115.132 ug/l

RT: 8.25 min Scan# 773

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 43 Resp: 141976

Ion Ratio Lower Upper

43 100

58 34.5

28.8

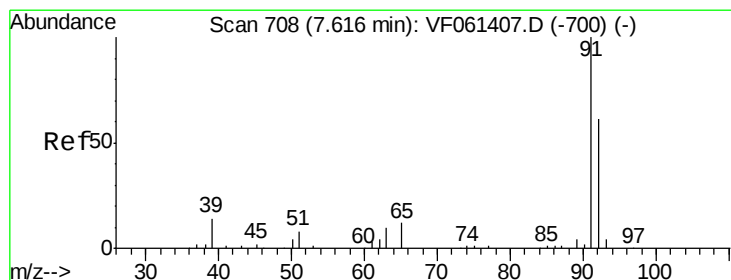
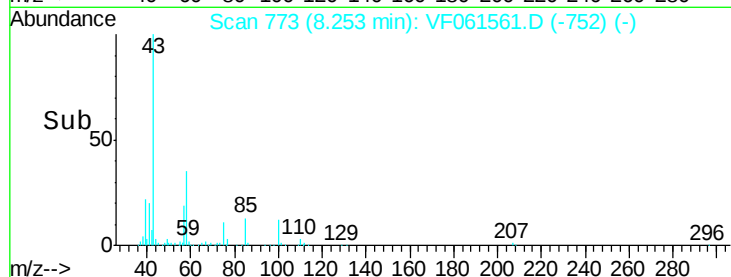
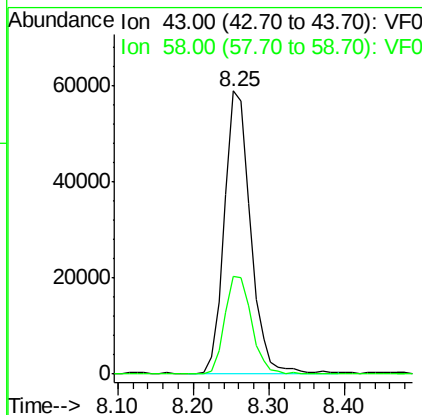
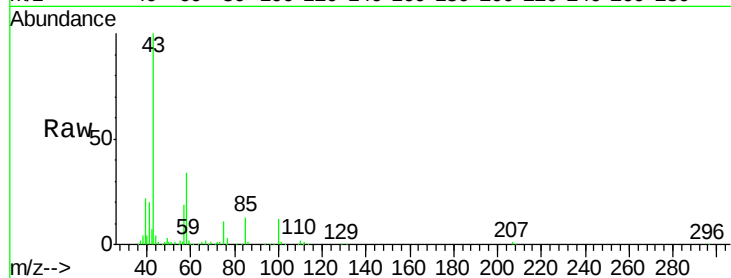
43.2

Manual Integrations

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#52

Toluene

Concen: 19.214 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion: 92 Resp: 94136

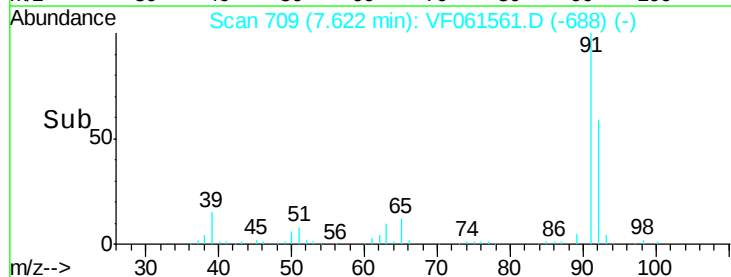
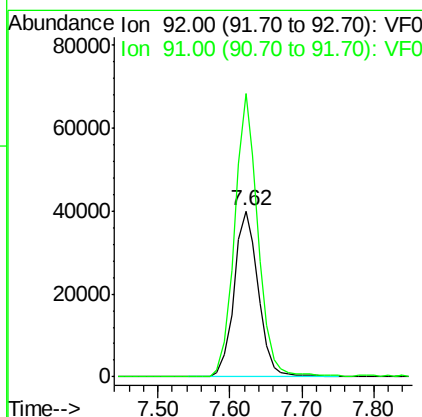
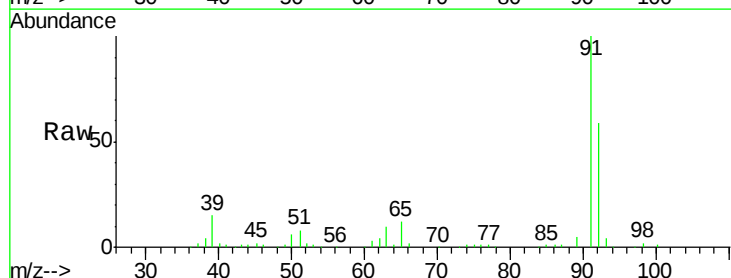
Ion Ratio Lower Upper

92 100

91 170.6

131.2

196.8





#53

t-1,3-Dichloropropene

Concen: 22.615 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 75 Resp: 57687

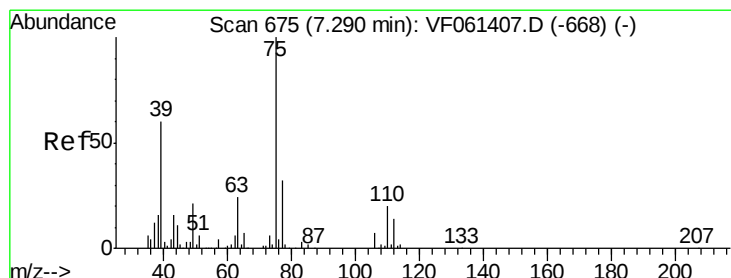
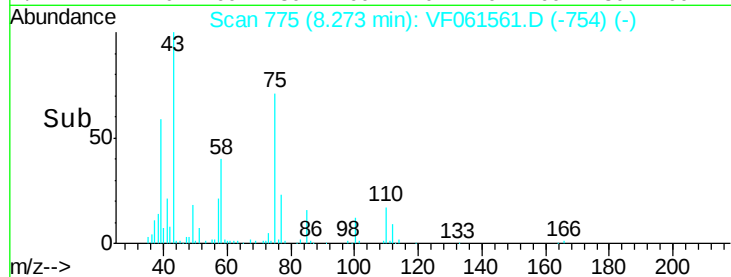
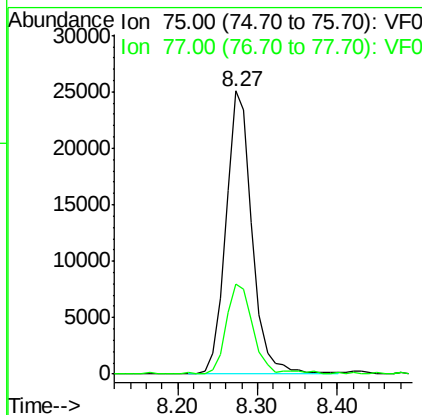
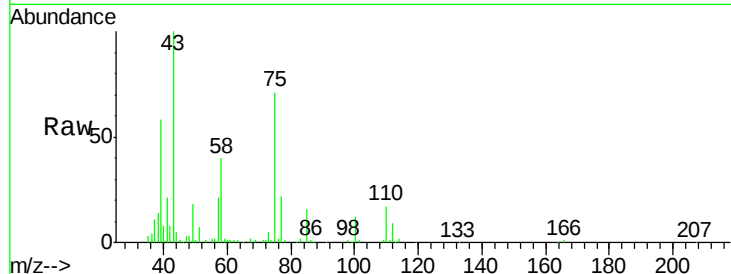
Ion Ratio Lower Upper

75 100

77 31.8 24.4 36.6

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2/12/2019 2:32:06 AM



#54

cis-1,3-Dichloropropene

Concen: 22.952 ug/l

RT: 7.30 min Scan# 676

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

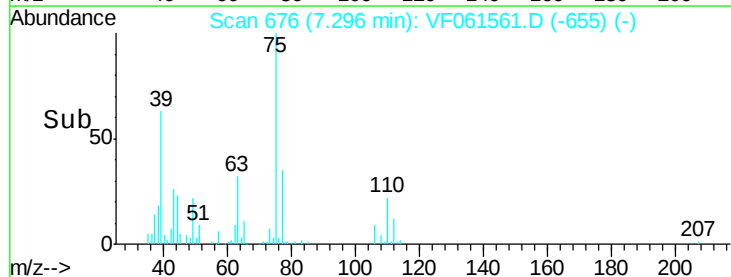
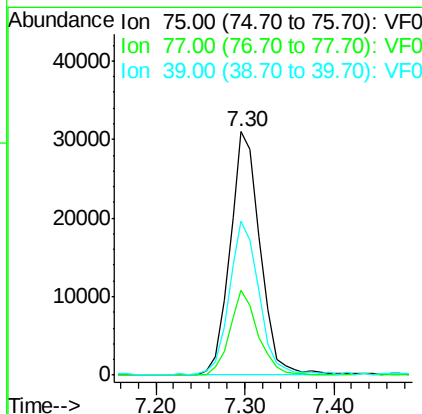
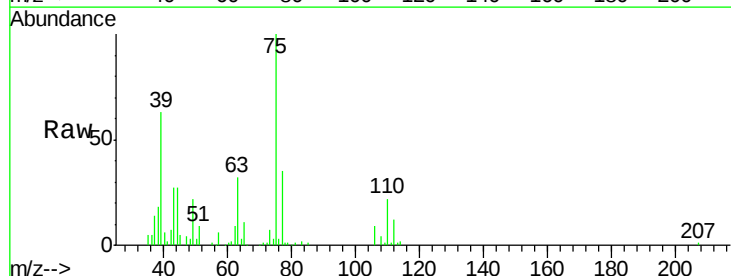
Tgt Ion: 75 Resp: 73183

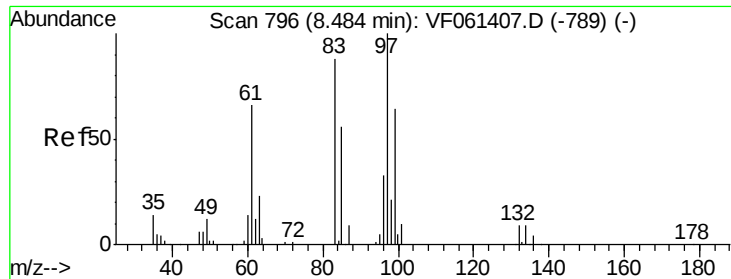
Ion Ratio Lower Upper

75 100

77 35.0 25.4 38.0

39 63.4 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 25.434 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.02 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

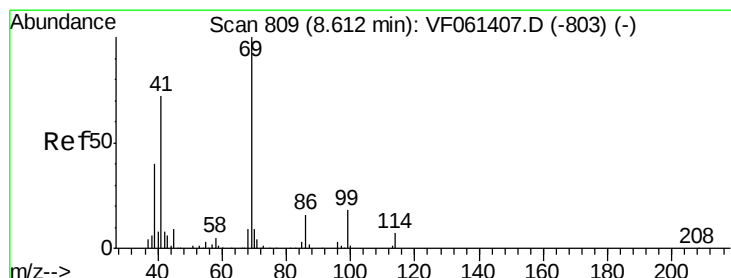
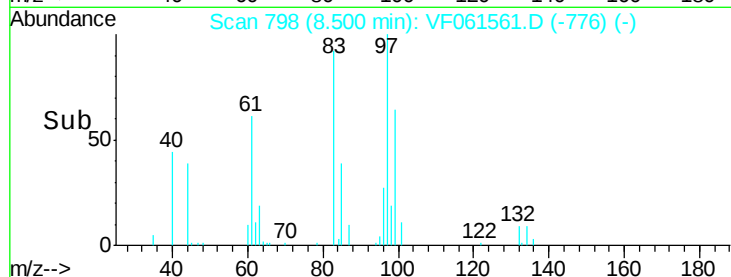
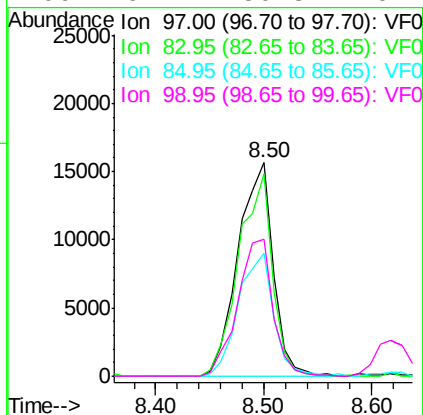
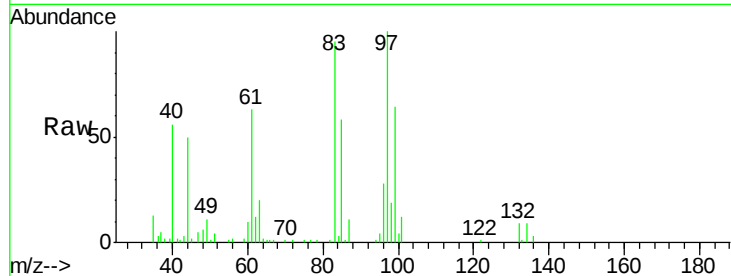
ClientSampleId :

VF0208SBS01

Tot Ion:	97	Resp:	35386
Ion	Ratio	Lower	Upper
97	100		
83	94.8	70.4	105.6
85	57.8	44.7	67.1
99	64.4	50.8	76.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 19.953 ug/l

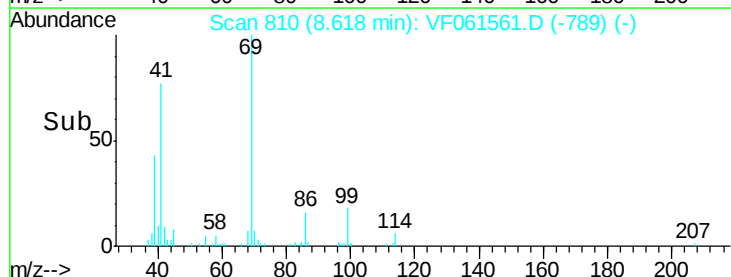
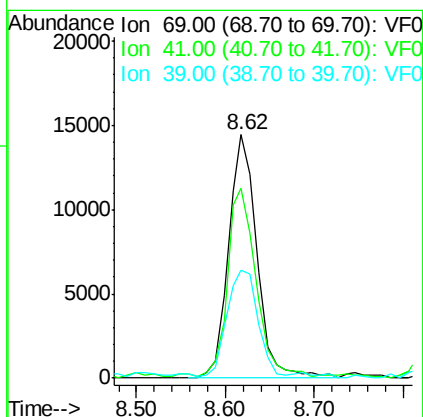
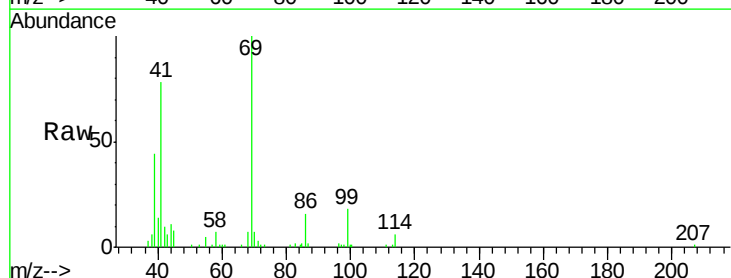
RT: 8.62 min Scan# 810

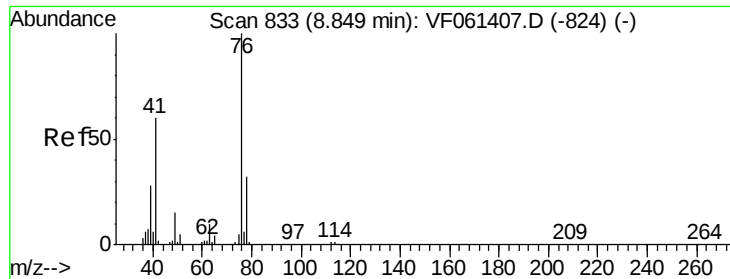
Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	69	Resp:	32297
Ion	Ratio	Lower	Upper
69	100		
41	78.0	57.5	86.3
39	44.4	32.0	48.0





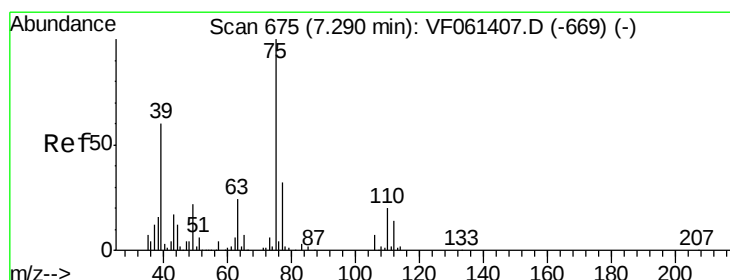
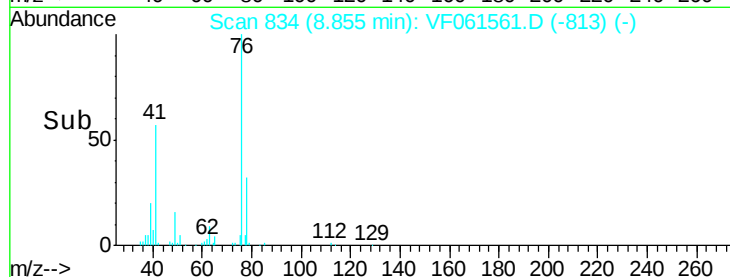
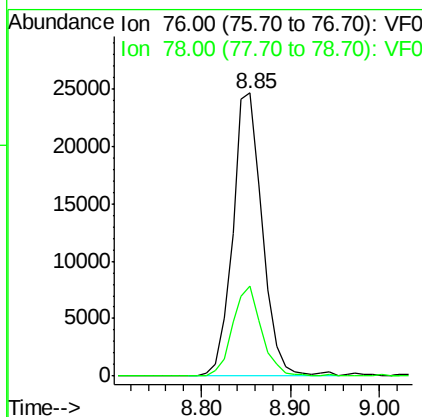
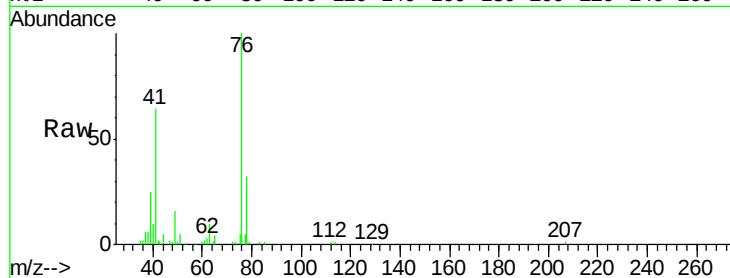
#57
 1,3-Dichloropropane
 Concen: 21.933 ug/l
 RT: 8.85 min Scan# 834
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.3	37.9

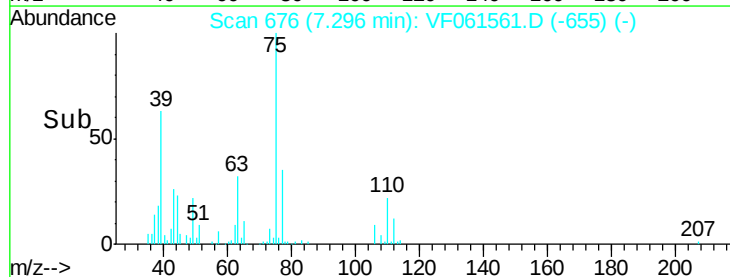
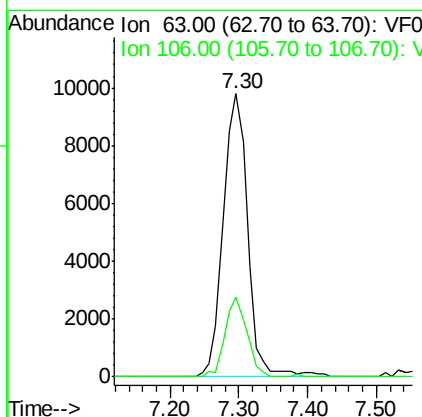
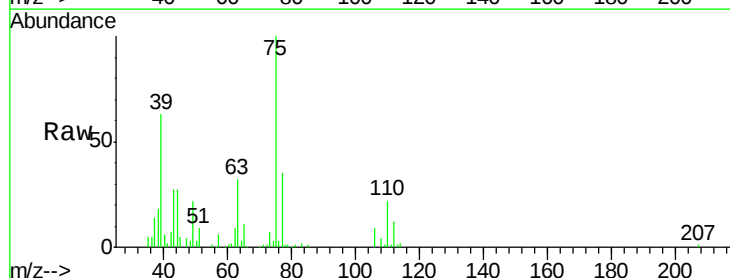
Manual Integrations
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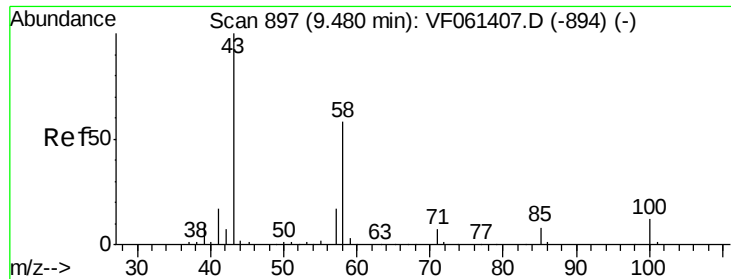
MMDadoda
 2/12/2019 2:32:06 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 154.597 ug/l
 RT: 7.30 min Scan# 676
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
63	100		
106	28.2	21.9	32.9





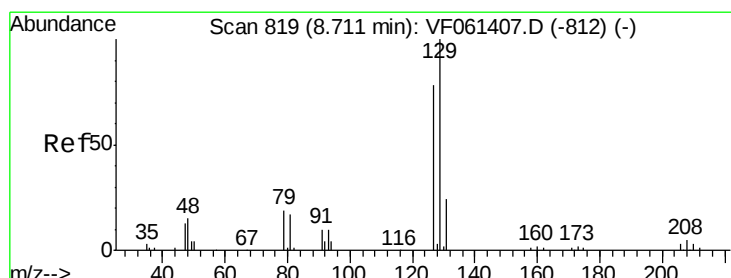
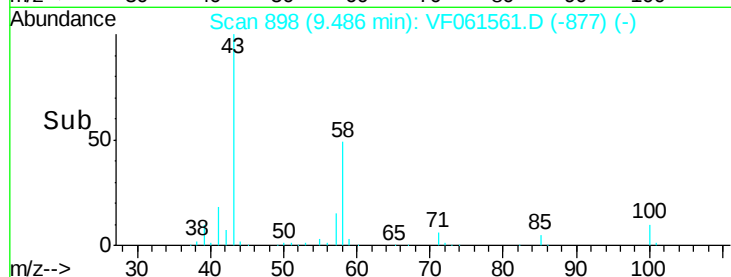
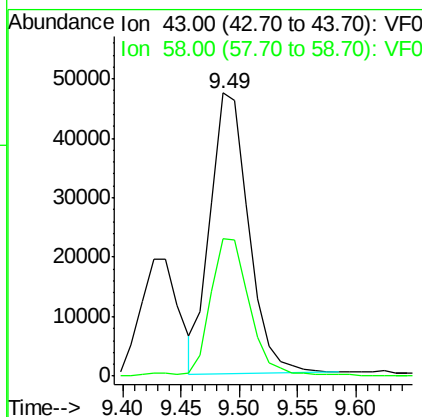
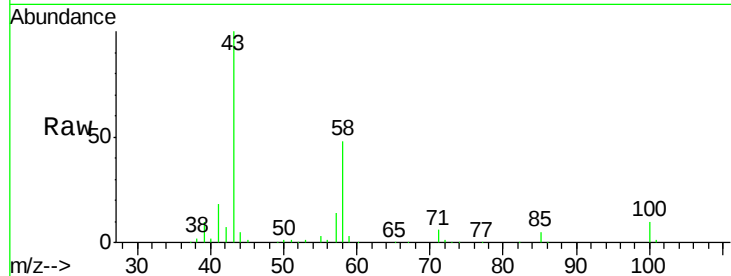
#59
2-Hexanone
Concen: 125.620 ug/l
RT: 9.49 min Scan# 898
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampled :
VF0208SBS01

Tot Ion: 43 Resp: 108021
Ion Ratio Lower Upper
43 100
58 48.5 25.9 77.6

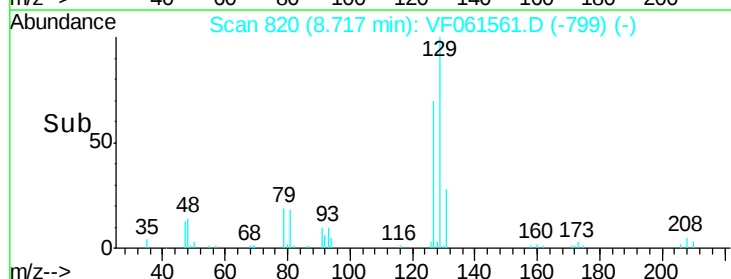
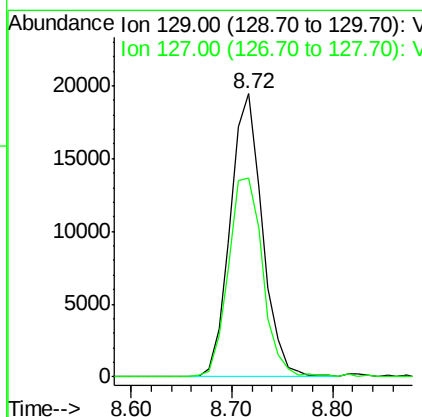
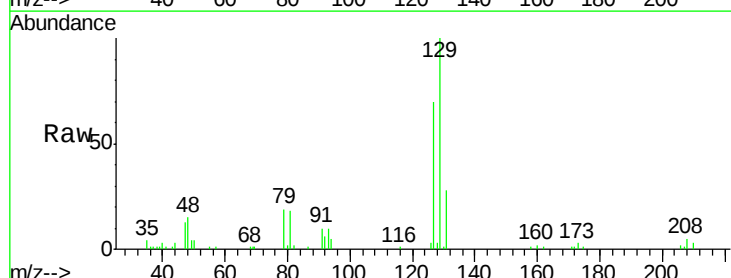
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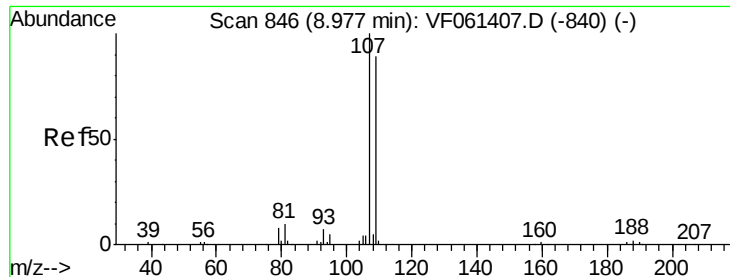
MMDadoda
2/12/2019 2:32:06 AM



#60
Dibromochloromethane
Concen: 21.150 ug/l
RT: 8.72 min Scan# 820
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion:129 Resp: 43019
Ion Ratio Lower Upper
129 100
127 70.4 39.1 117.2





#61

1,2-Dibromoethane

Concen: 20.528 ug/l

RT: 8.98 min Scan# 847

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion:107 Resp: 32695

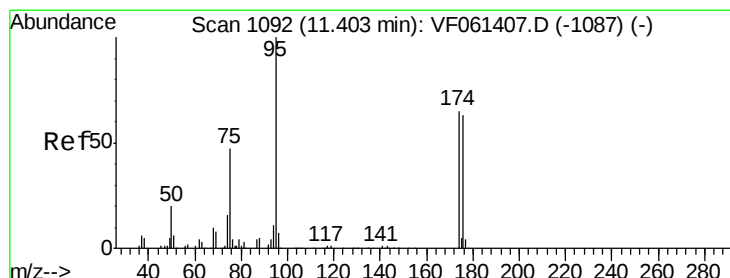
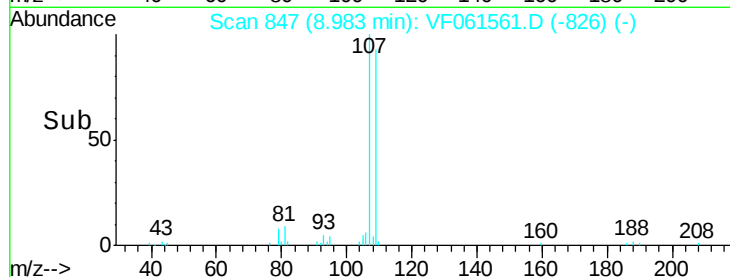
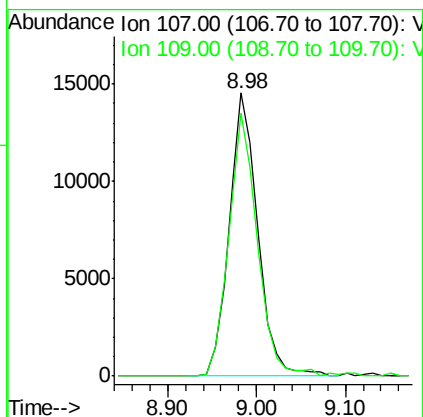
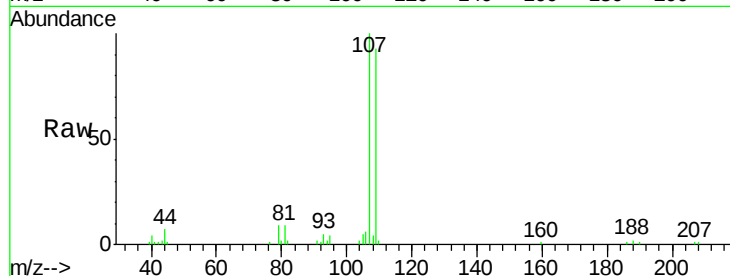
Ion Ratio Lower Upper

107 100

109 92.9 70.8 106.2

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2/12/2019 2:32:06 AM



#62

4-Bromofluorobenzene

Concen: 49.090 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

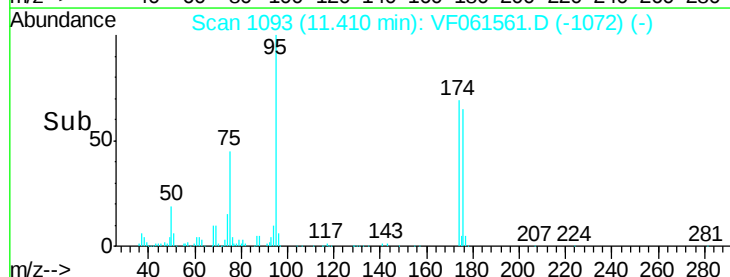
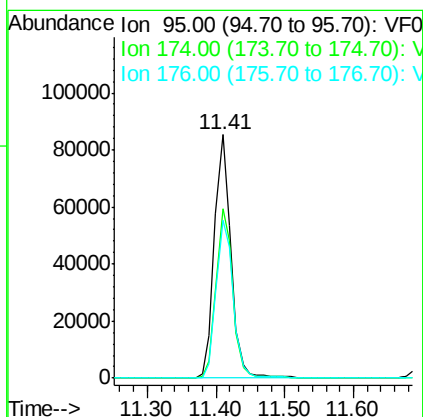
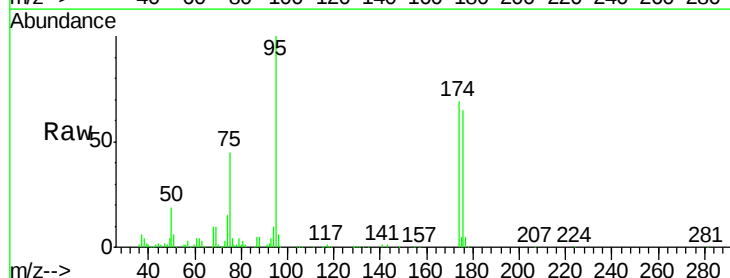
Tgt Ion: 95 Resp: 142995

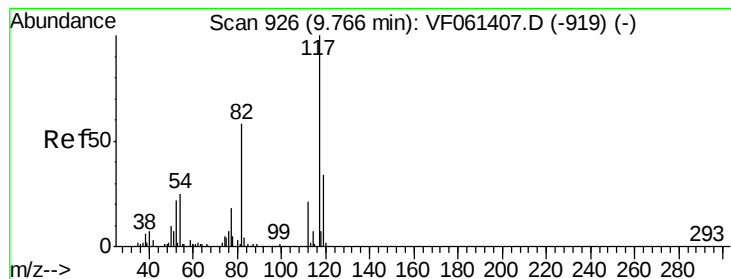
Ion Ratio Lower Upper

95 100

174 69.5 0.0 130.4

176 64.6 0.0 126.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

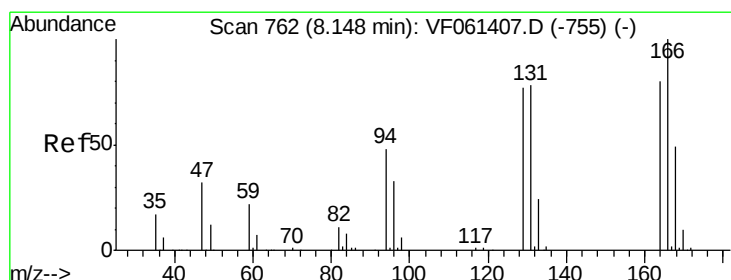
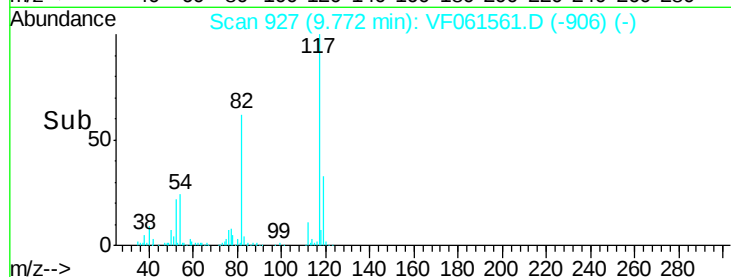
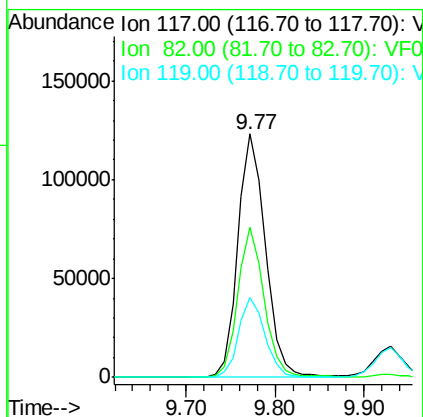
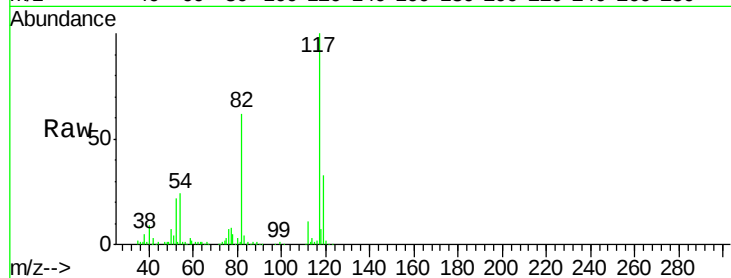
ClientSampleId :

VF0208SBS01

Tot Ion:	117	Resp:	266275
Ion Ratio	Lower	Upper	
117	100		
82	61.9	46.4	69.6
119	32.8	27.2	40.8

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#64

Tetrachloroethene

Concen: 20.121 ug/l

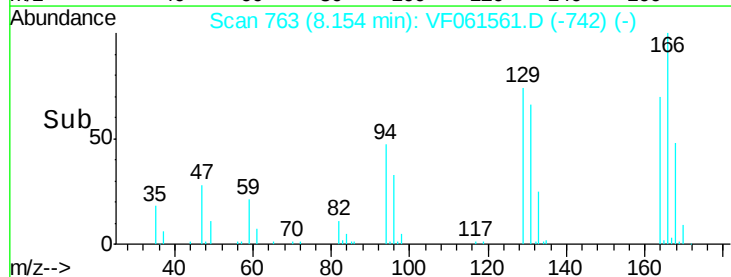
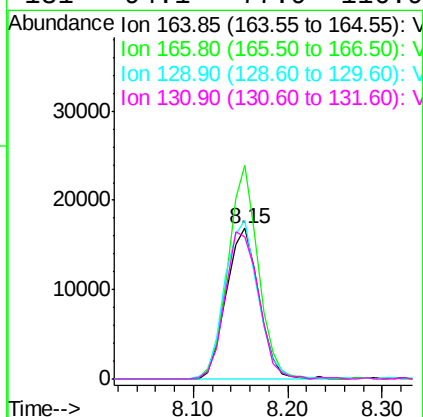
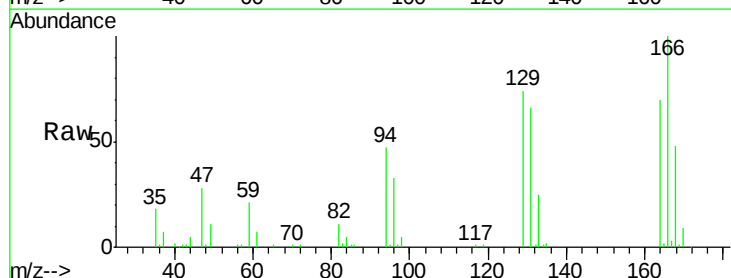
RT: 8.15 min Scan# 763

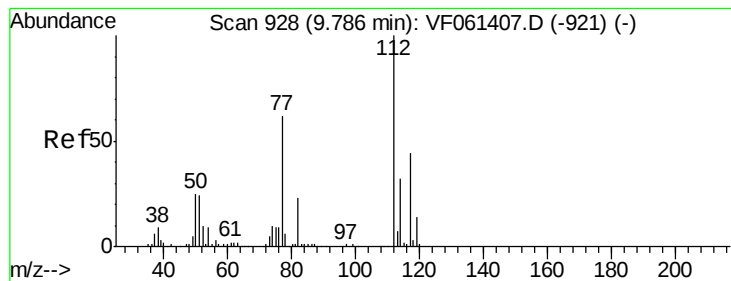
Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	164	Resp:	40291
Ion Ratio	Lower	Upper	
164	100		
166	141.9	99.6	149.4
129	105.4	76.4	114.6
131	94.1	77.9	116.9





#65

Chlorobenzene

Concen: 22.809 ug/l

RT: 9.79 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion:112 Resp: 123506

Ion Ratio Lower Upper

112 100

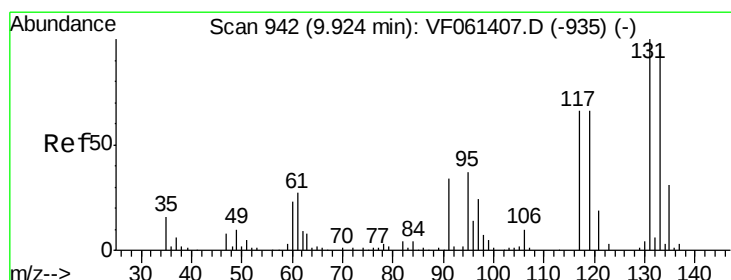
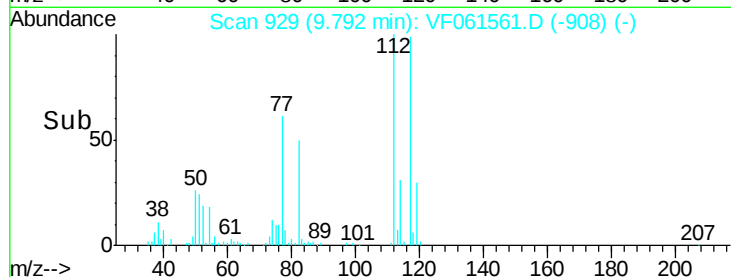
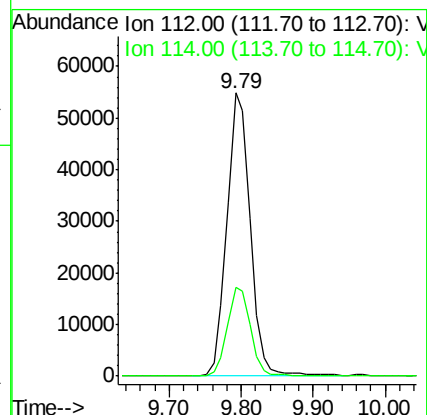
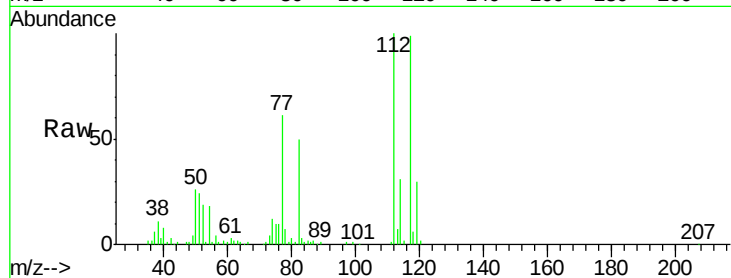
114 31.4 25.4 38.0

Manual Integrations

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#66

1,1,1,2-Tetrachloroethane

Concen: 22.901 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

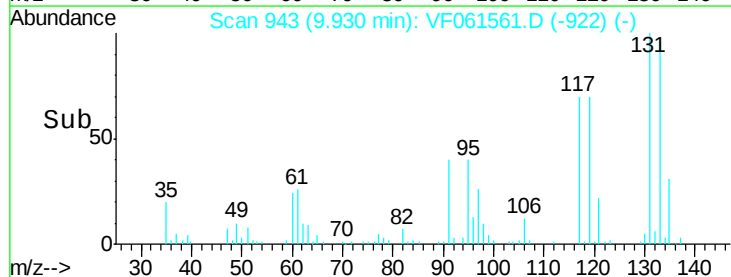
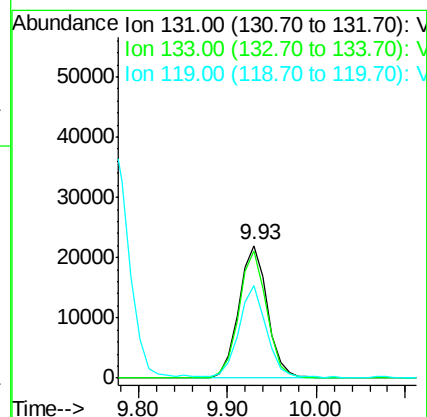
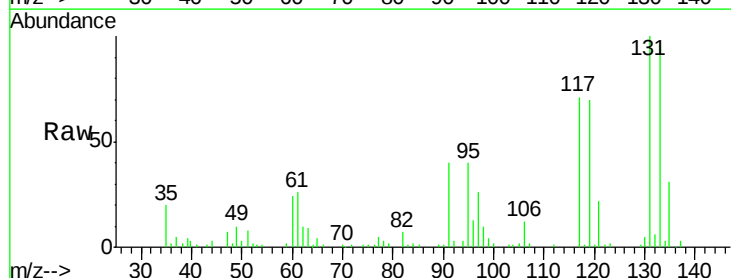
Tgt Ion:131 Resp: 49399

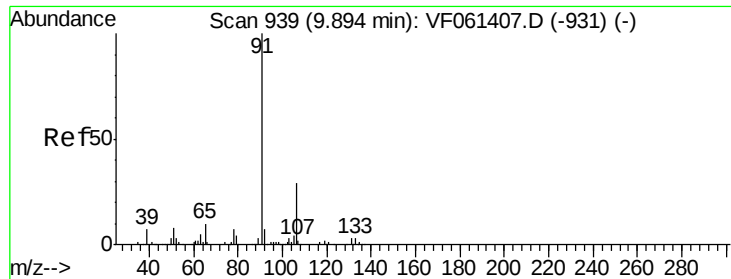
Ion Ratio Lower Upper

131 100

133 96.4 47.4 142.2

119 69.5 33.1 99.3





#67

Ethyl Benzene

Concen: 22.305 ug/l

RT: 9.90 min Scan# 940

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 91 Resp: 220667

Ion Ratio Lower Upper

91 100

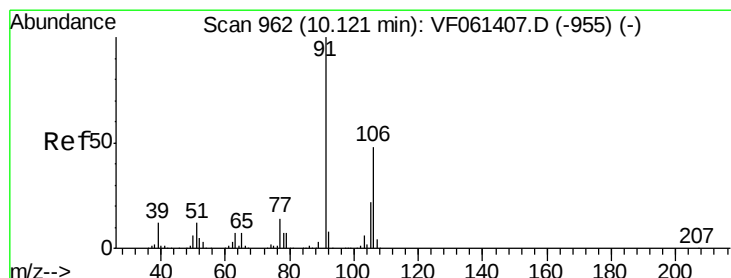
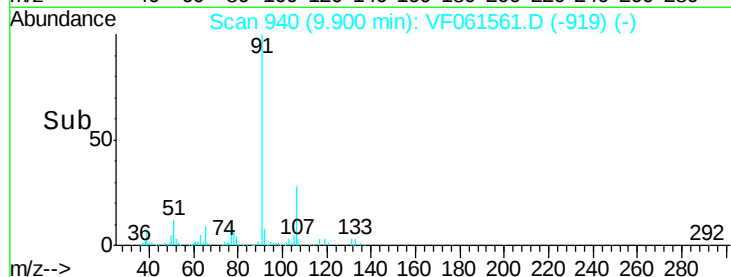
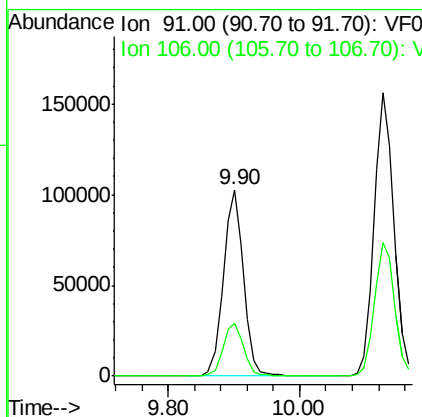
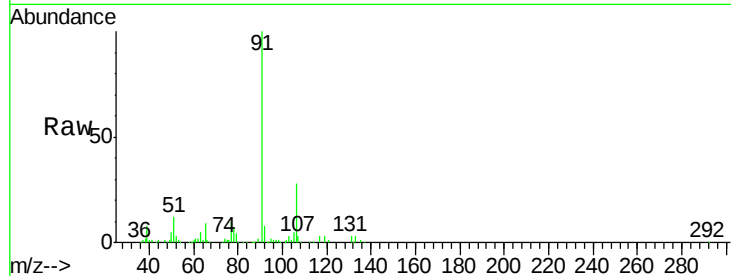
106 28.1 23.1 34.7

Manual Integrations

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#68

m/p-Xylenes

Concen: 44.473 ug/l

RT: 10.13 min Scan# 963

Delta R.T. 0.01 min

Lab File: VF061561.D

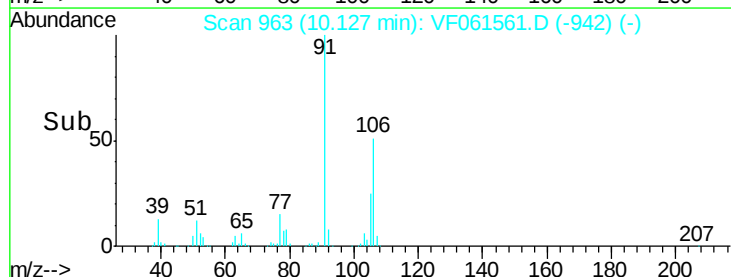
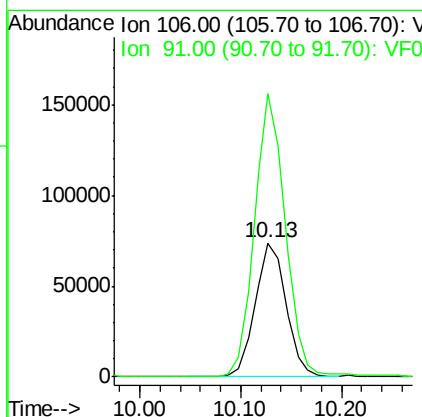
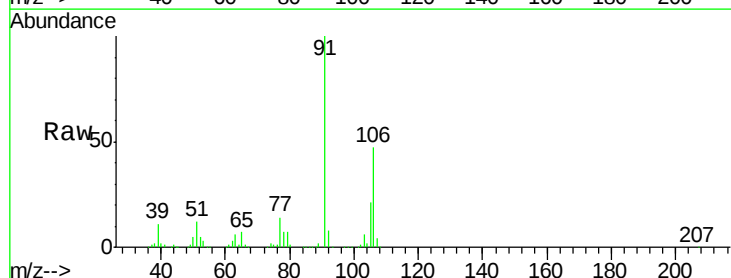
Acq: 8 Feb 2019 16:50

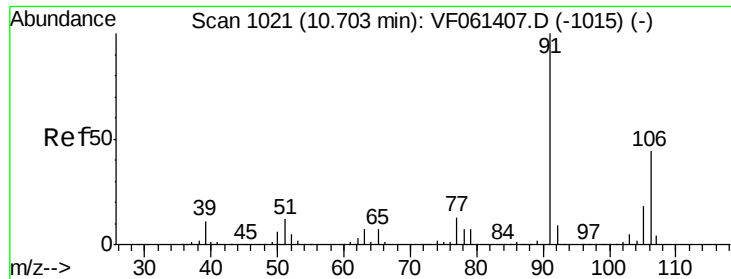
Tgt Ion: 106 Resp: 158247

Ion Ratio Lower Upper

106 100

91 211.8 166.2 249.4





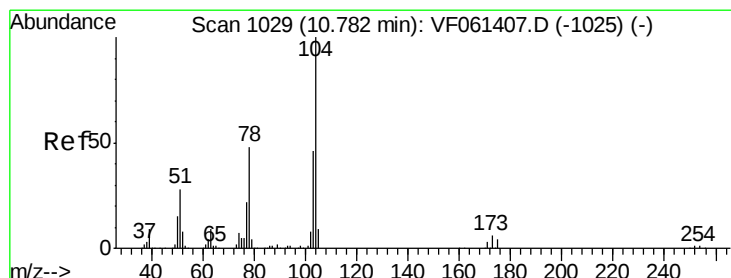
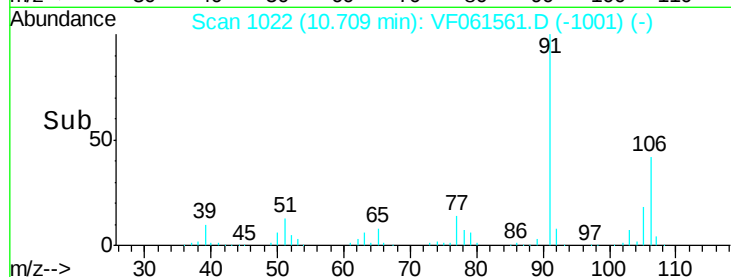
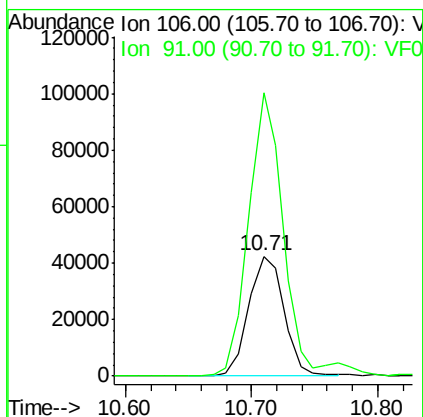
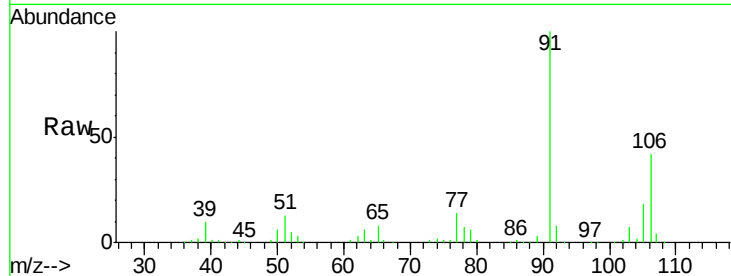
#69
o-Xylene
Concen: 21.529 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion:106 Resp: 83029
Ion Ratio Lower Upper
106 100
91 236.5 113.3 339.8

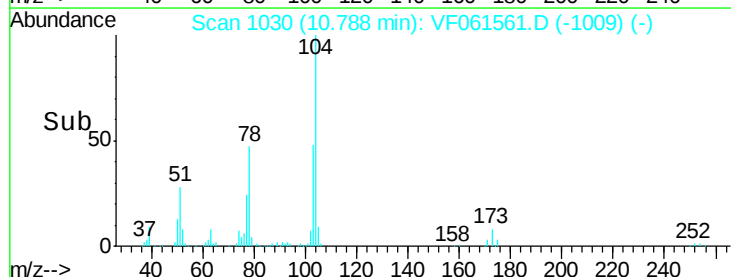
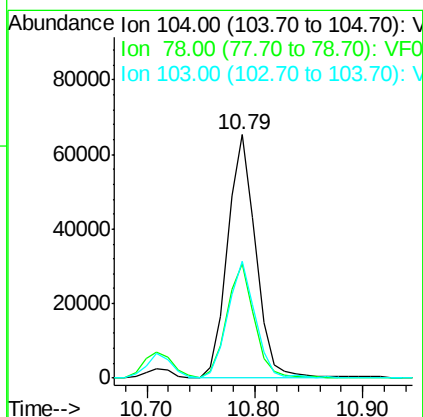
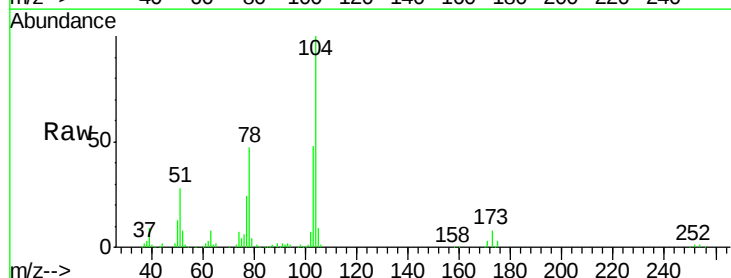
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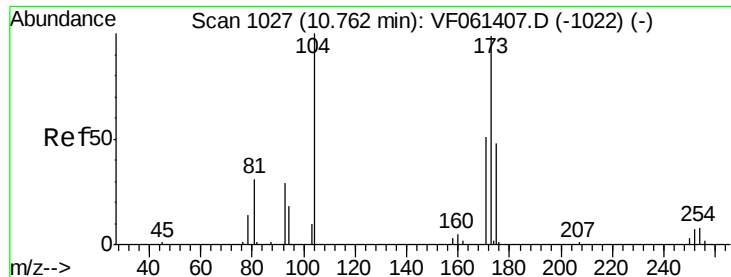
MMDadoda
2/12/2019 2:32:06 AM



#70
Styrene
Concen: 22.258 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion:104 Resp: 117501
Ion Ratio Lower Upper
104 100
78 47.1 38.8 58.2
103 48.0 37.0 55.6





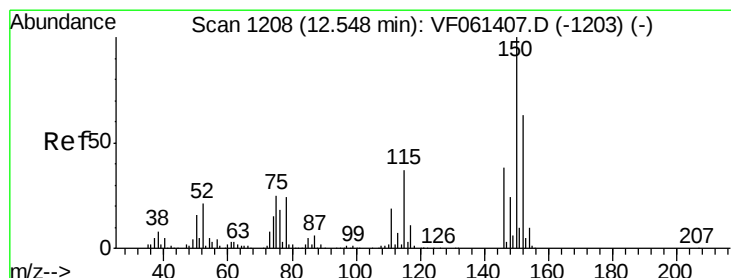
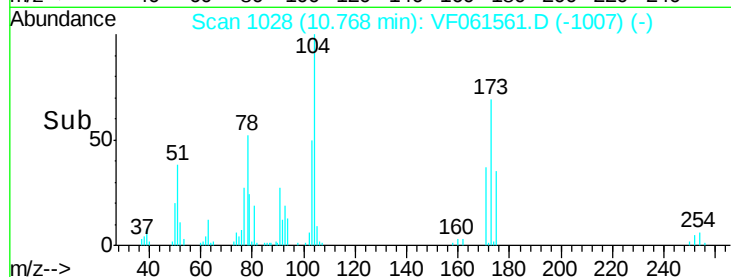
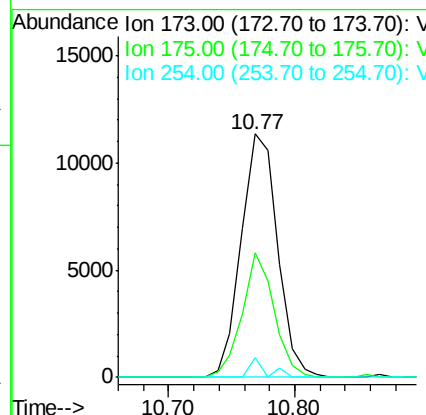
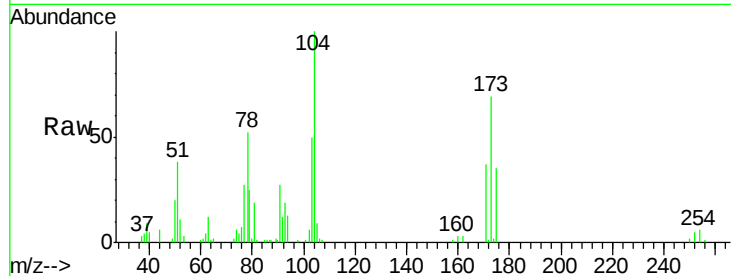
#71
Bromoform
Concen: 23.401 ug/l
RT: 10.77 min Scan# 1028
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	51.1	24.1	72.4
254	8.2	0.0	0.0

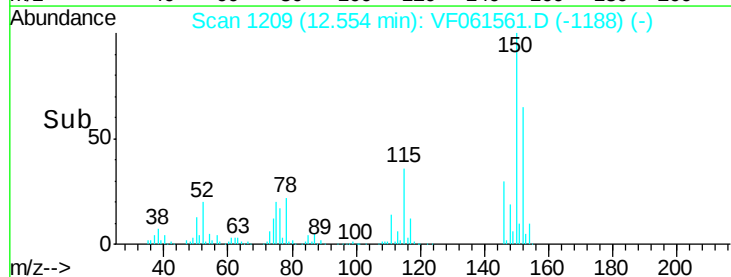
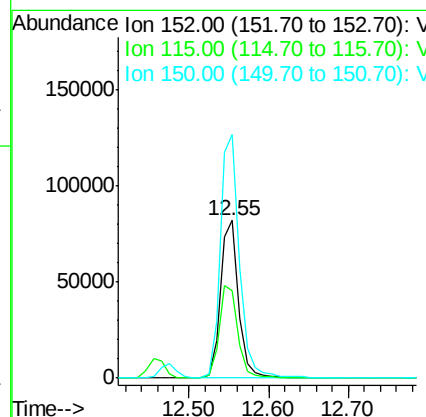
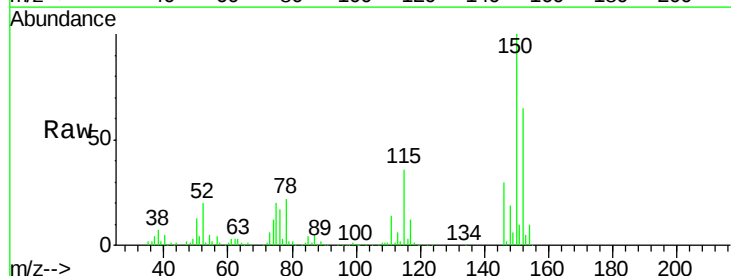
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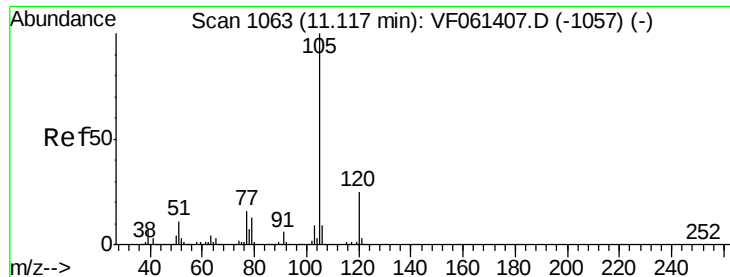
MMDadoda
2/12/2019 2:32:06 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.5	30.0	90.0
150	154.6	0.0	321.4





#73

Isopropylbenzene

Concen: 24.442 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion:105 Resp: 261895

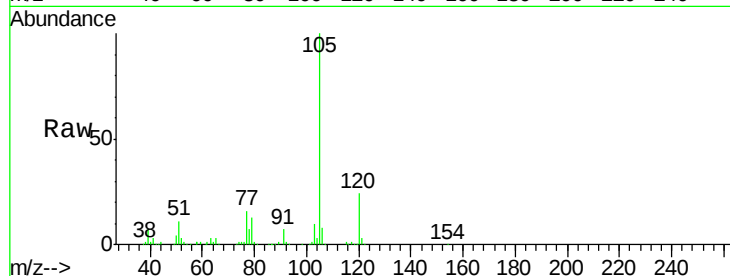
Ion Ratio Lower Upper

105 100

120 24.0 12.6 37.8

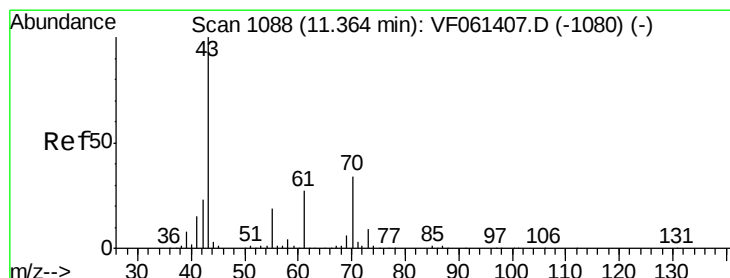
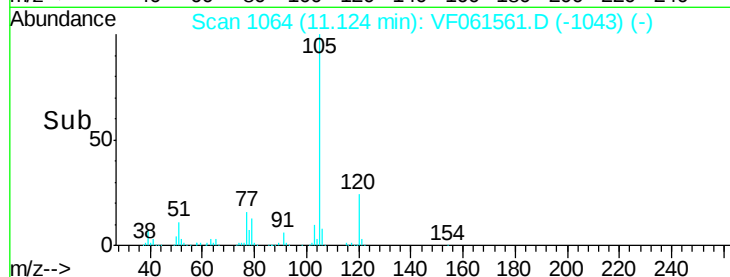
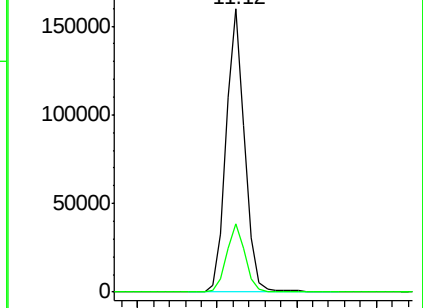
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 23.458 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion: 43 Resp: 59434

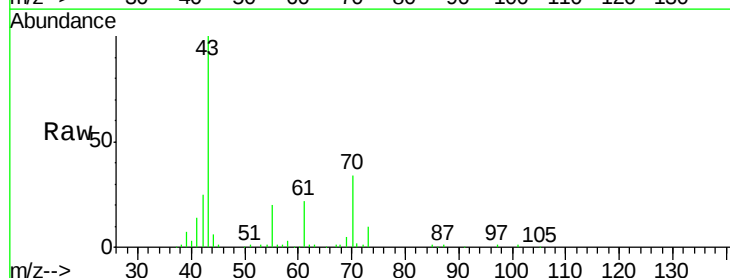
Ion Ratio Lower Upper

43 100

70 33.7 27.6 41.4

55 20.0 15.4 23.2

61 21.6 21.8 32.6#

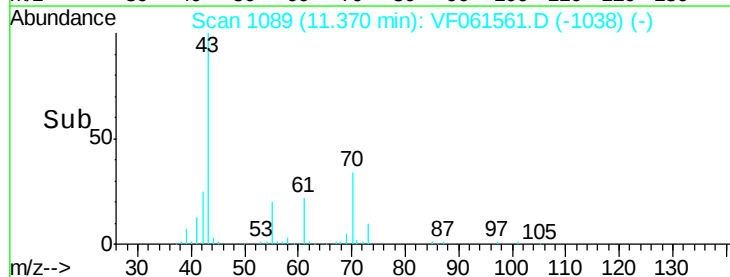
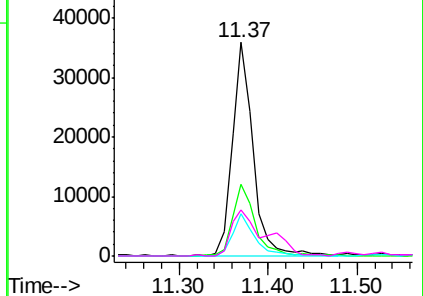


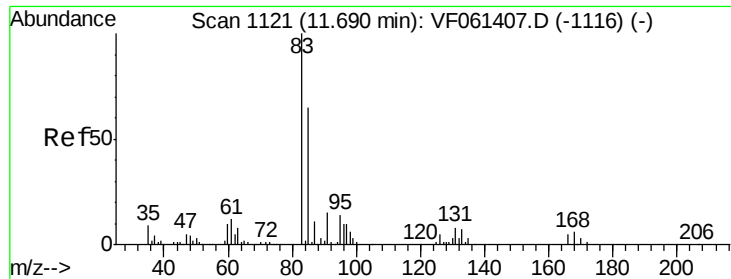
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#75

1,1,2,2-Tetrachloroethane

Concen: 23.604 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

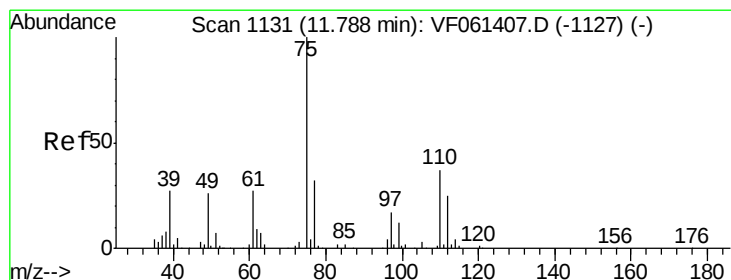
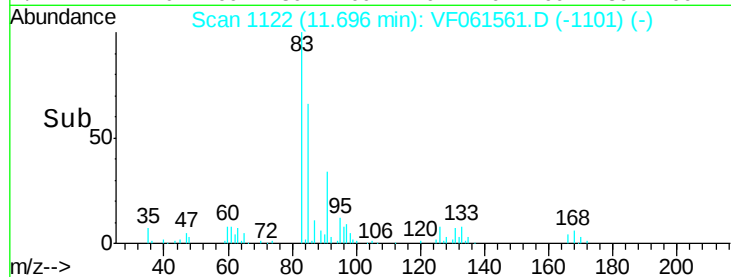
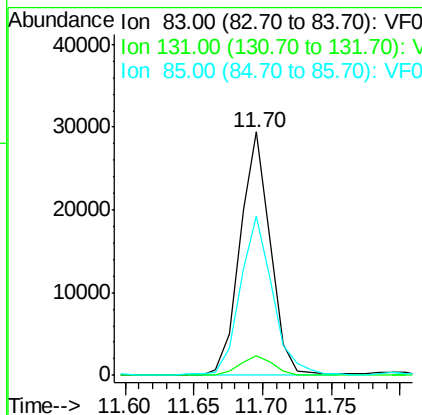
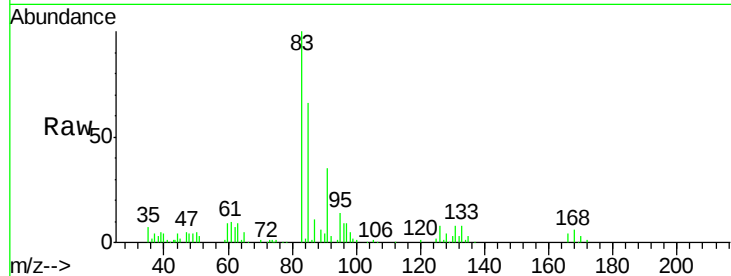
ClientSampleId :

VF0208SBS01

Tot Ion:	83	Resp:	45056
Ion Ratio	Lower	Upper	
83	100		
131	8.1	4.0	12.2
85	65.6	32.7	98.1

Manual Integrations
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2/12/2019 2:32:06 AM



#76

1,2,3-Trichloropropane

Concen: 22.776 ug/l

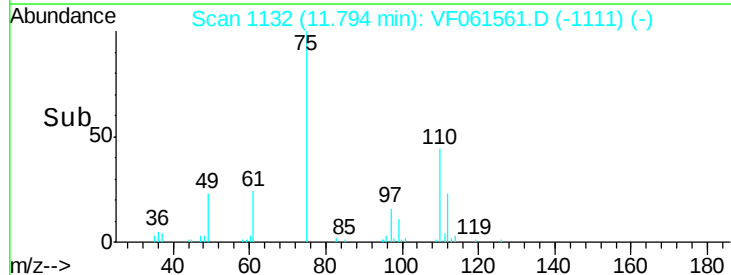
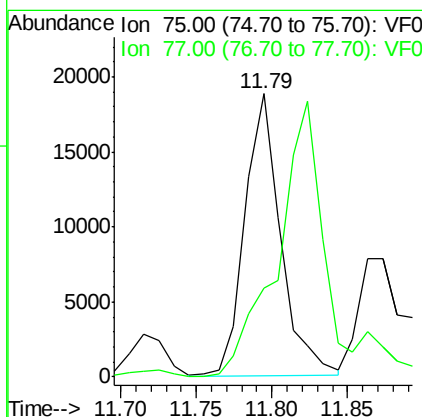
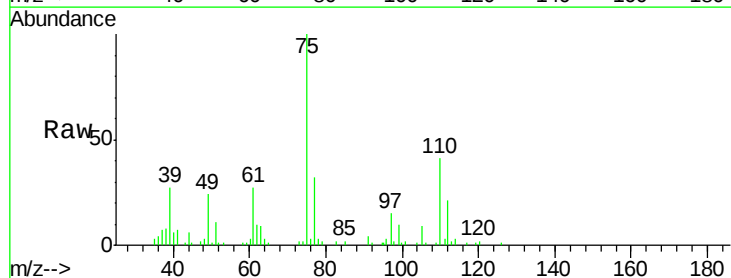
RT: 11.79 min Scan# 1132

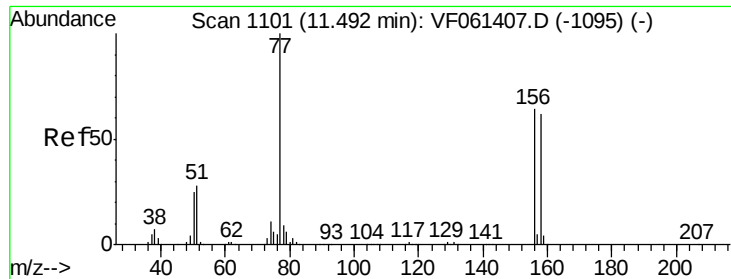
Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	75	Resp:	31239
Ion Ratio	Lower	Upper	
75	100		
77	31.6	16.1	48.3





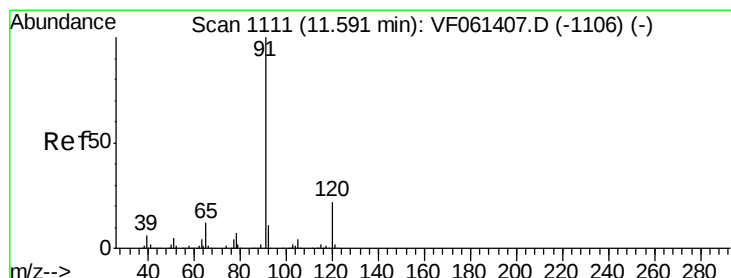
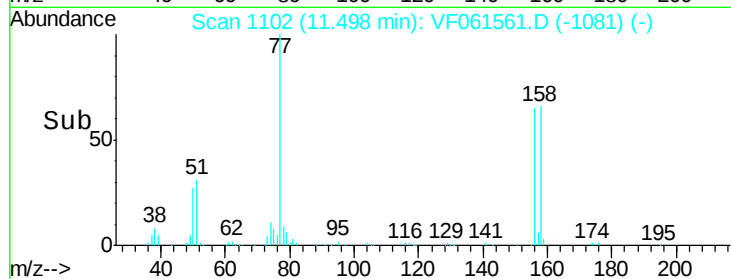
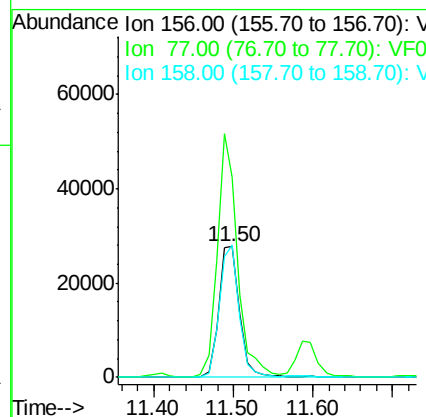
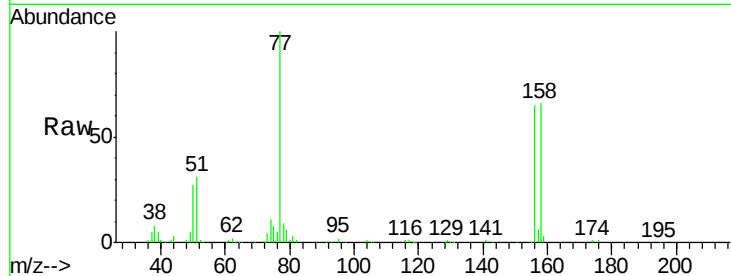
#77
Bromobenzene
Concen: 22.686 ug/l
RT: 11.50 min Scan# 1102
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion	Ratio	Lower	Upper
156	100		
77	153.3	78.3	234.9
158	100.8	48.9	146.7

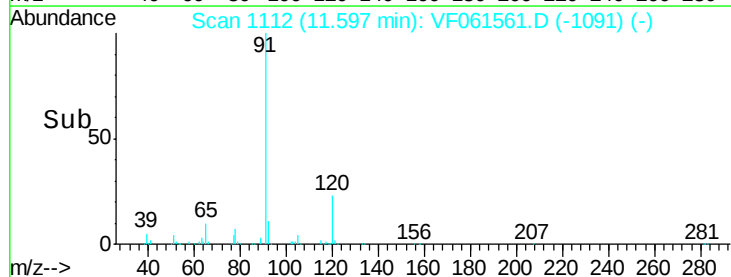
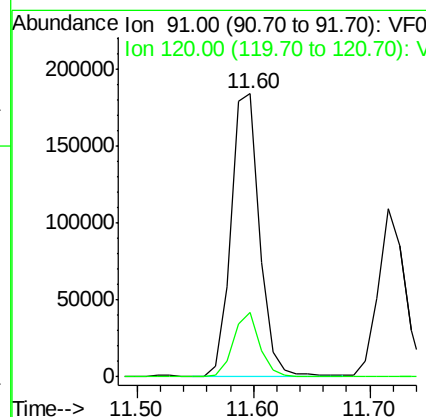
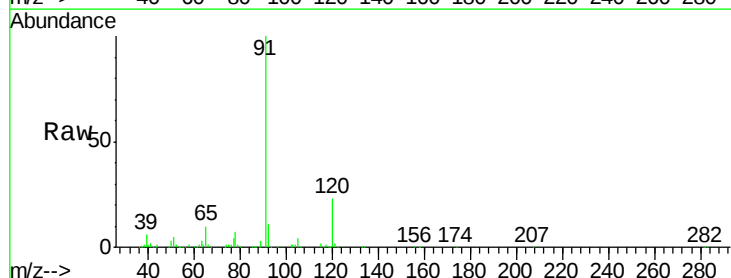
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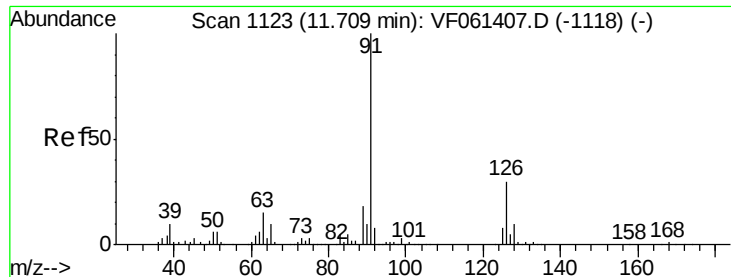
MMDadoda
2/12/2019 2:32:06 AM



#78
n-propylbenzene
Concen: 22.491 ug/l
RT: 11.60 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.8	10.9	32.6





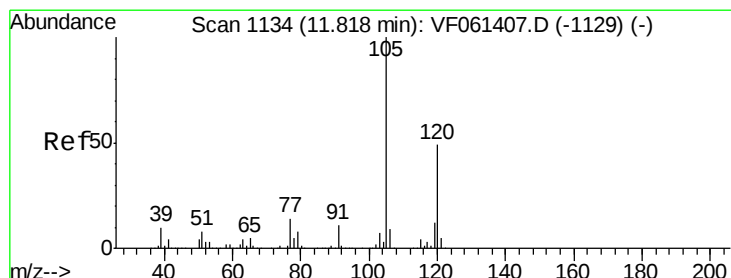
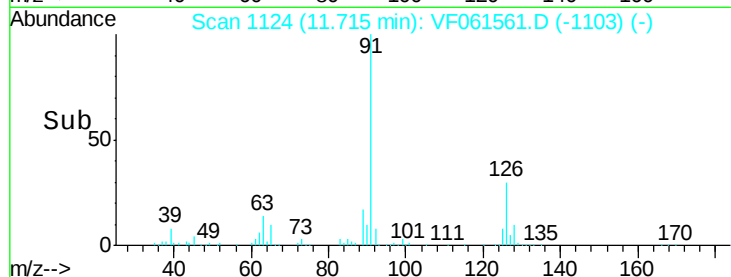
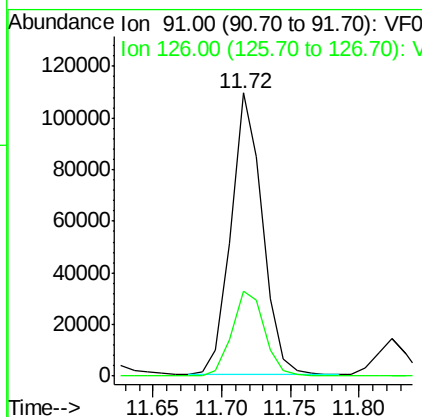
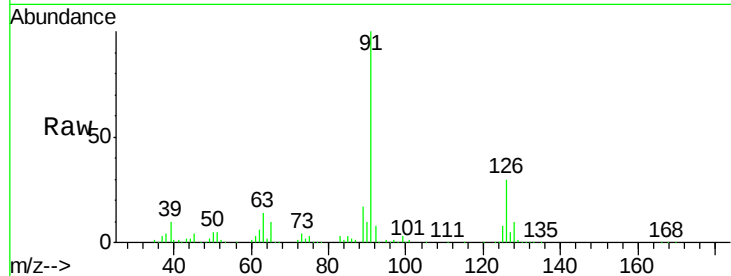
#79
 2-Chlorotoluene
 Concen: 23.234 ug/l
 RT: 11.72 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		172731		
126	30.1		15.0	45.1	

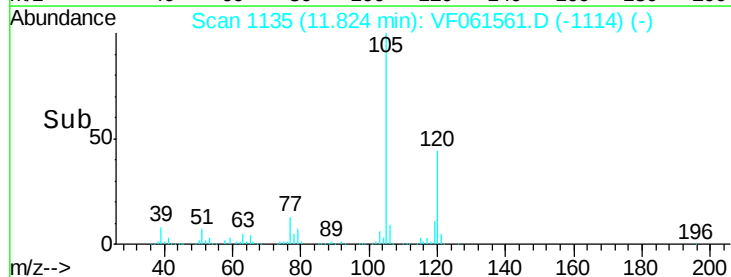
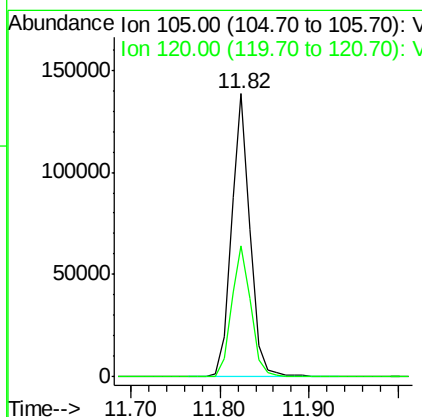
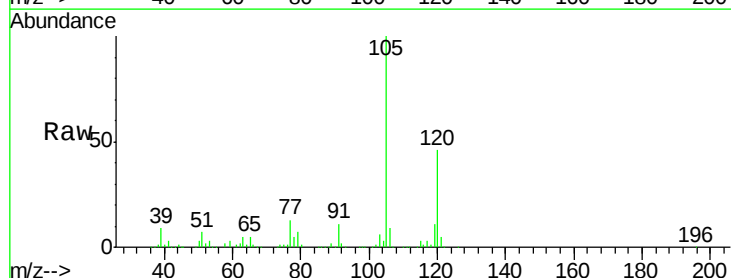
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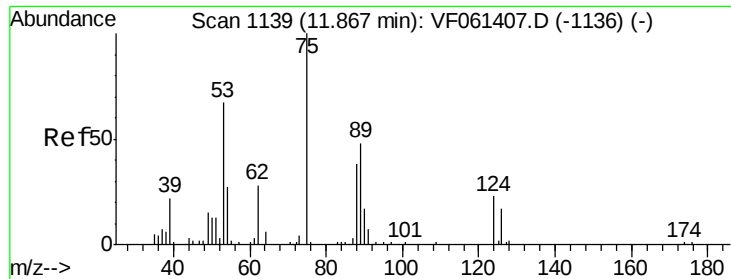
MMDadoda
 2/12/2019 2:32:06 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 23.589 ug/l
 RT: 11.82 min Scan# 1135
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		203977		
120	46.3		24.7	74.1	





#81

trans-1,4-Dichloro-2-butene

Concen: 22.251 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

ClientSampleId :

VF0208SBS01

Tot Ion: 75 Resp: 13267

Ion Ratio Lower Upper

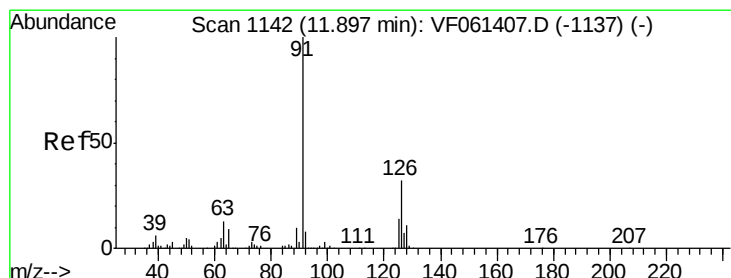
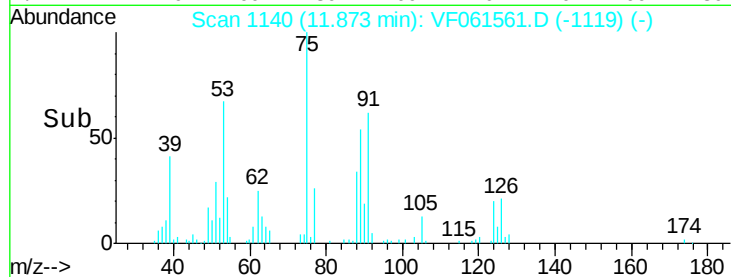
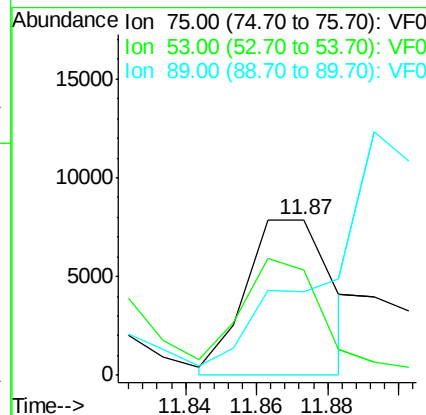
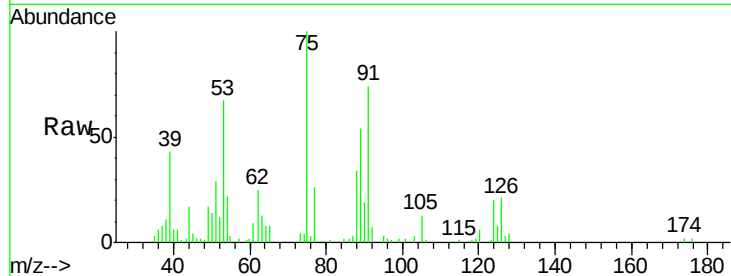
75 100

53 67.3 57.8 86.6

89 53.5 40.7 61.1

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#82

4-Chlorotoluene

Concen: 23.162 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF061561.D

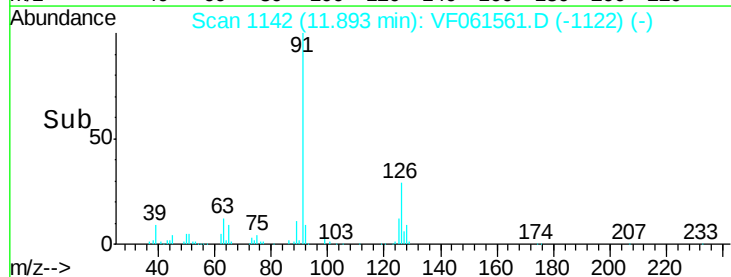
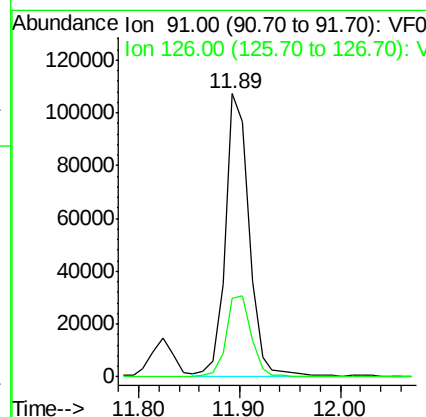
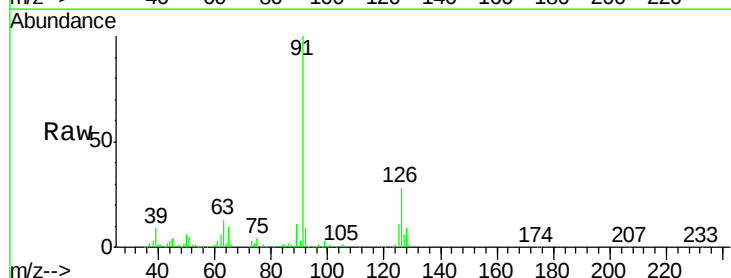
Acq: 8 Feb 2019 16:50

Tgt Ion: 91 Resp: 173761

Ion Ratio Lower Upper

91 100

126 27.9 16.0 47.9





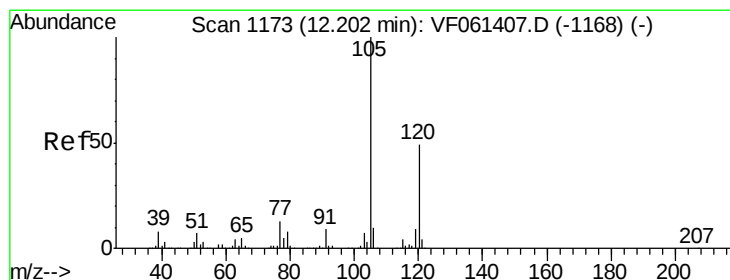
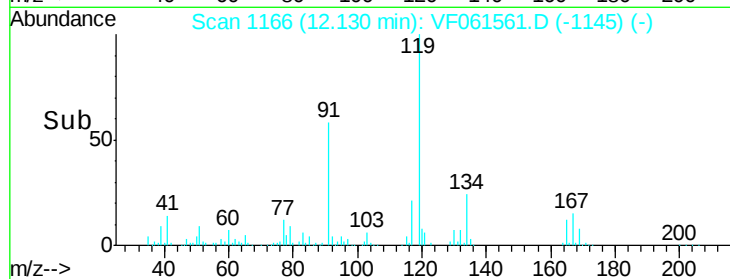
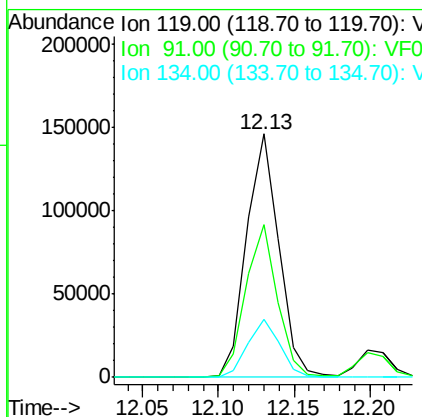
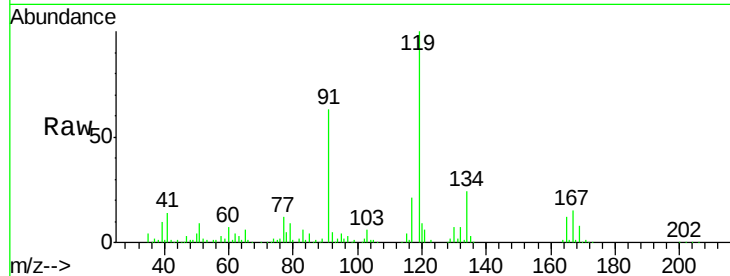
#83
 tert-Butylbenzene
 Concen: 24.459 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	218901		
91	62.8		31.3	93.8
134	23.9		12.4	37.0

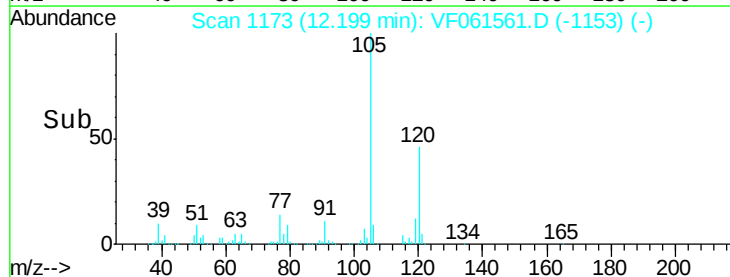
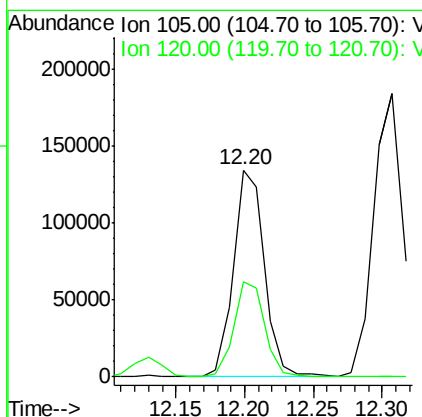
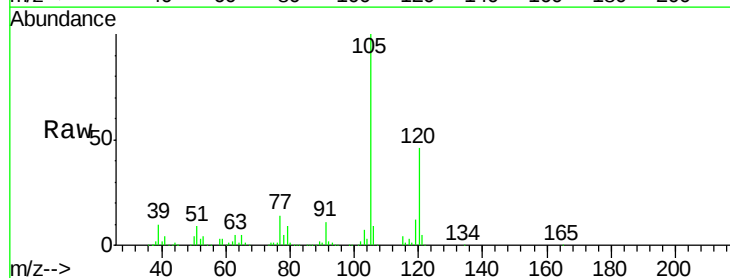
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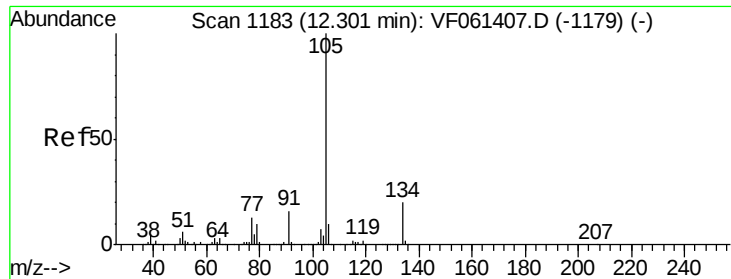
MMDadoda
 2/12/2019 2:32:06 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 23.691 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	211017		
120	45.9		24.9	74.6





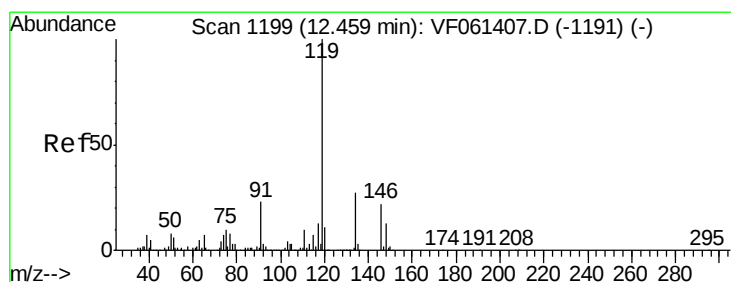
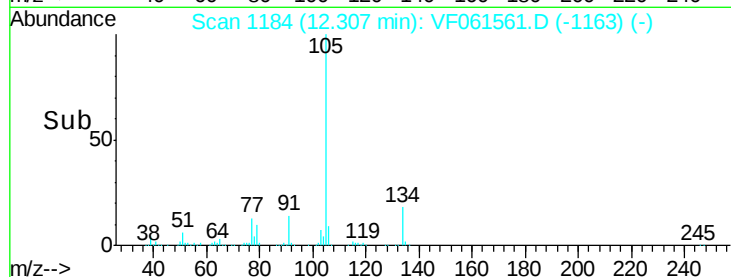
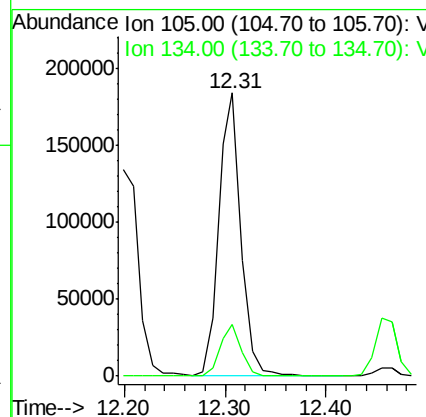
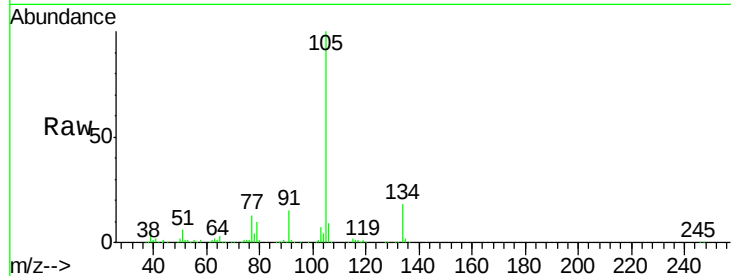
#85
 sec-Butylbenzene
 Concen: 23.134 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	18.4	10.0	30.0

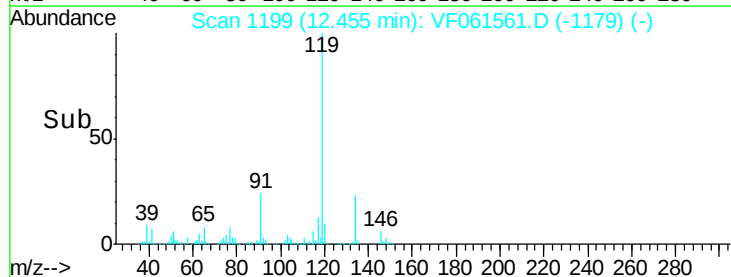
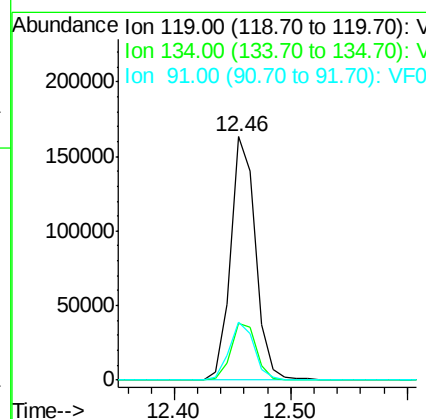
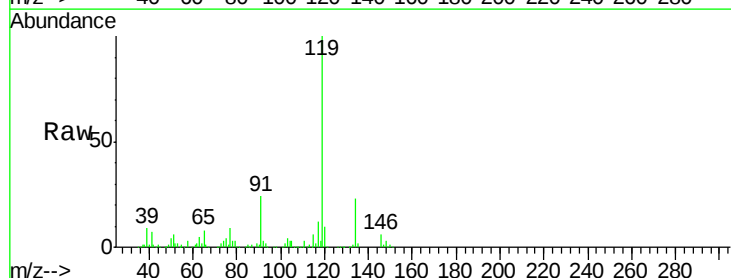
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#86
 p-Isopropyltoluene
 Concen: 24.322 ug/l
 RT: 12.46 min Scan# 1199
 Delta R.T. -0.00 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.2	13.4	40.2
91	24.0	11.4	34.2





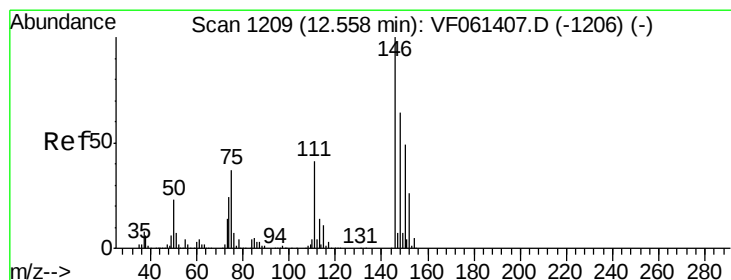
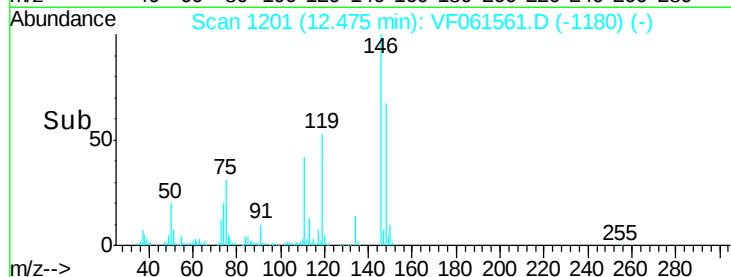
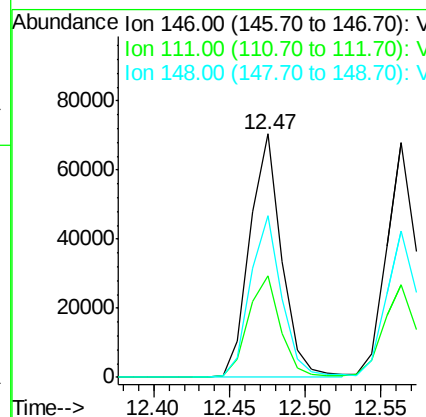
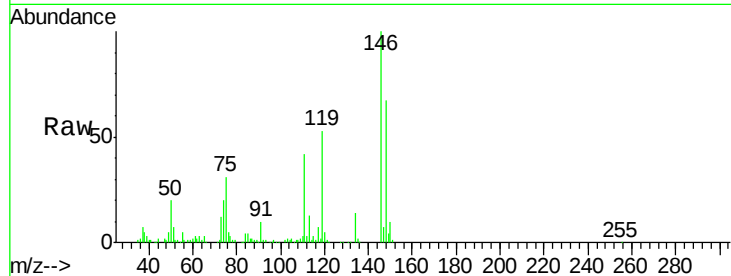
#87
 1,3-Dichlorobenzene
 Concen: 21.886 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.1	63.4
148	66.6	32.9	98.6

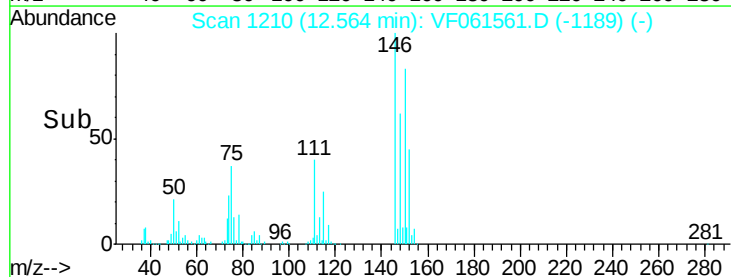
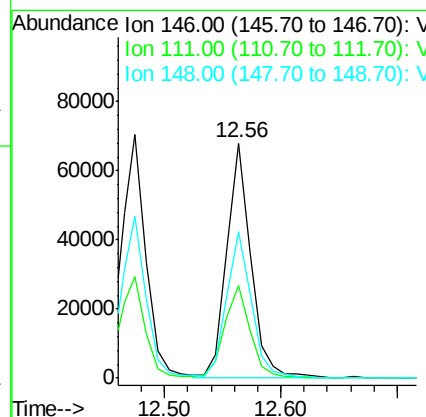
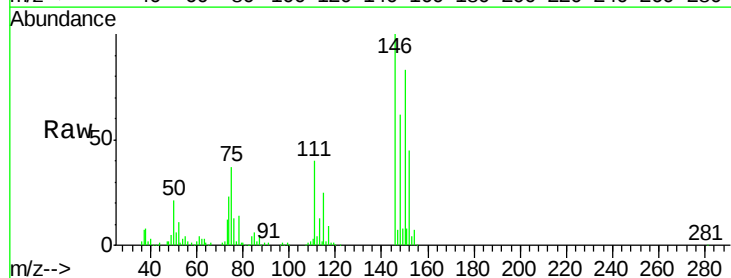
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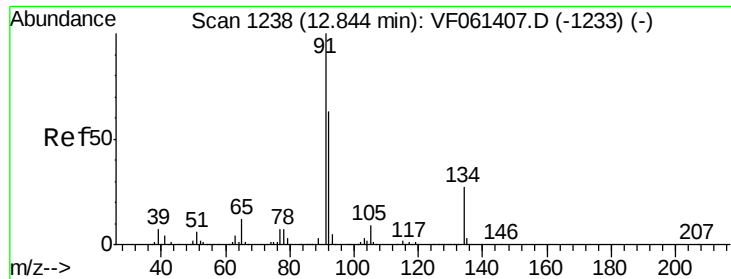
MMDadoda
 2/12/2019 2:32:06 AM



#88
 1,4-Dichlorobenzene
 Concen: 22.850 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.8	62.2
148	62.1	32.1	96.5





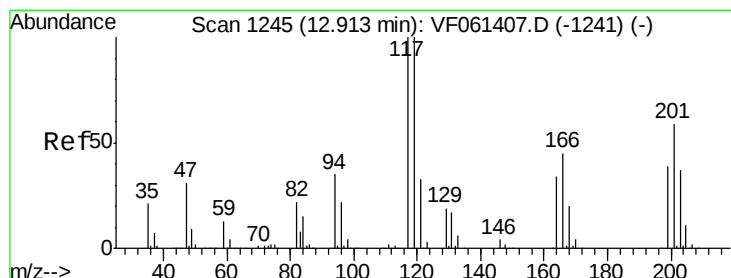
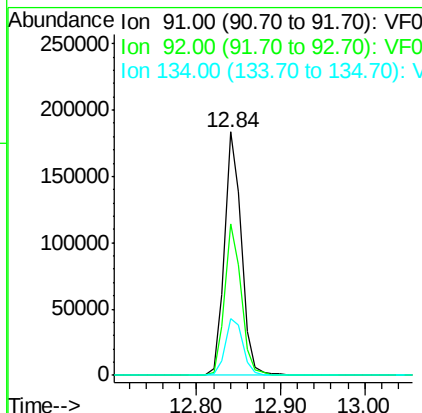
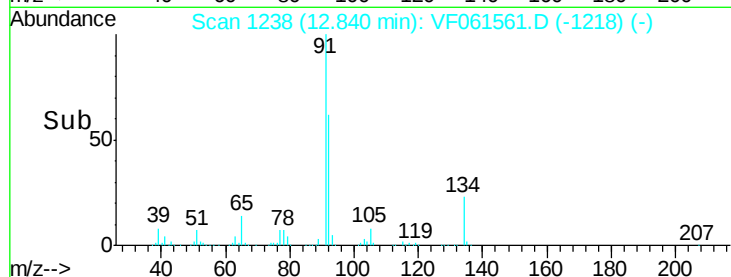
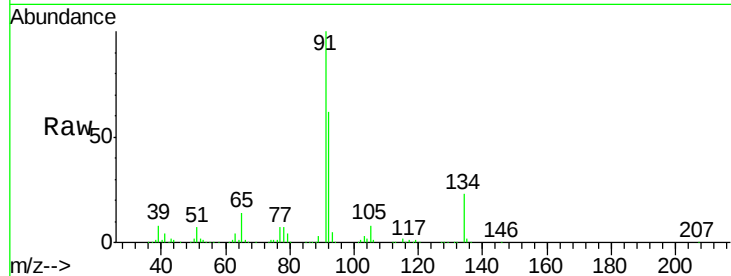
#89
n-Butylbenzene
Concen: 24.835 ug/l
RT: 12.84 min Scan# 1238
Delta R.T. -0.00 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Instrument :
MSVOA_F
ClientSampleId :
VF0208SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	255547		
92	62.1		31.6	94.7
134	23.1		13.6	40.8

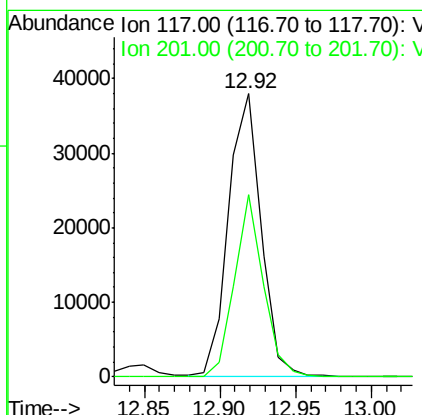
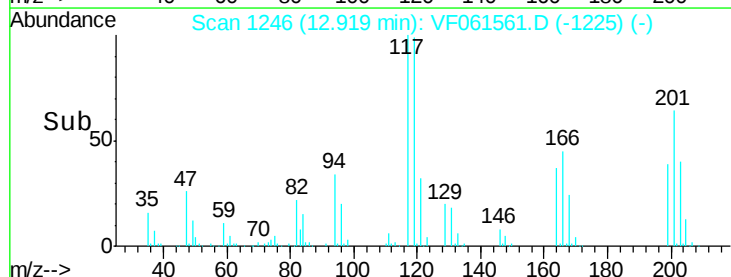
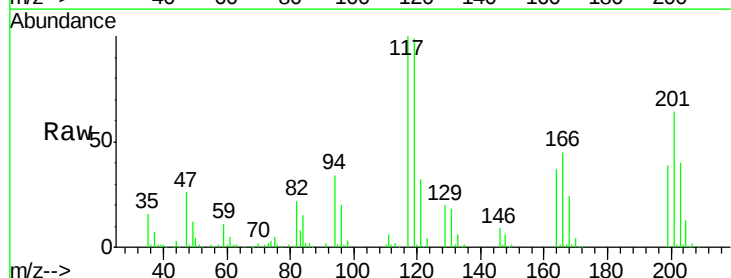
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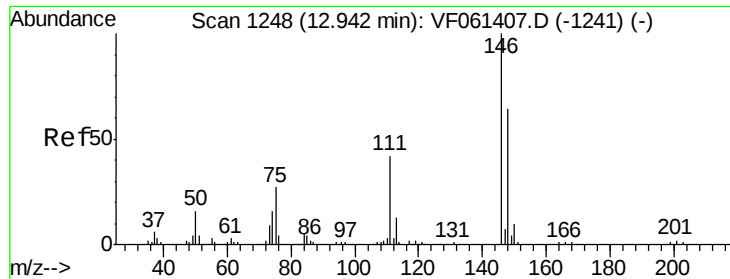
MMDadoda
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#90
Hexachloroethane
Concen: 24.266 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. 0.01 min
Lab File: VF061561.D
Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	57072		
201	64.2		29.3	87.8





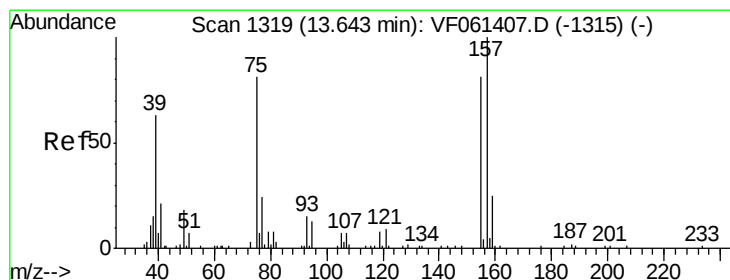
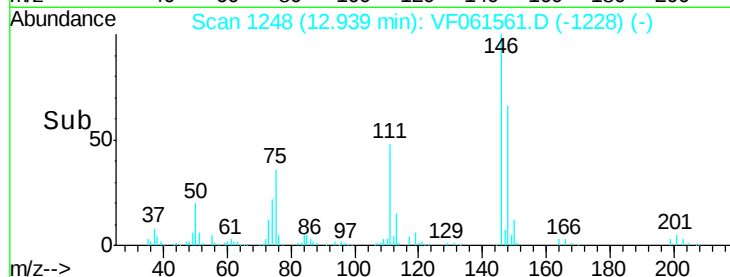
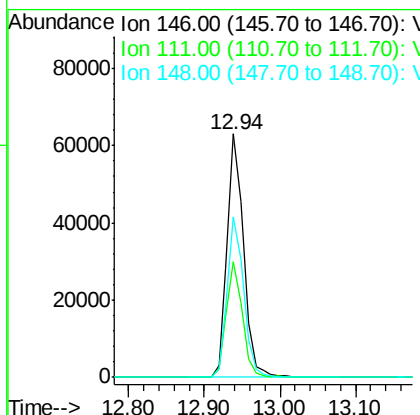
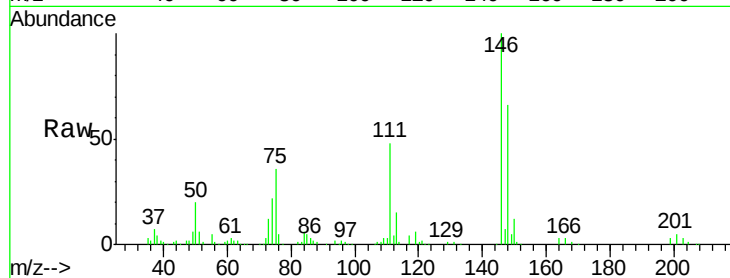
#91
 1,2-Dichlorobenzene
 Concen: 22.683 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.00 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.6	21.1	63.3
148	65.7	31.9	95.7

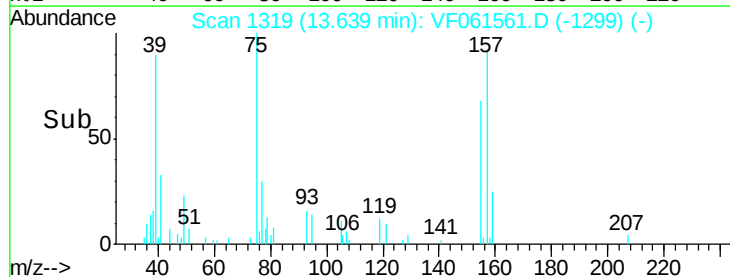
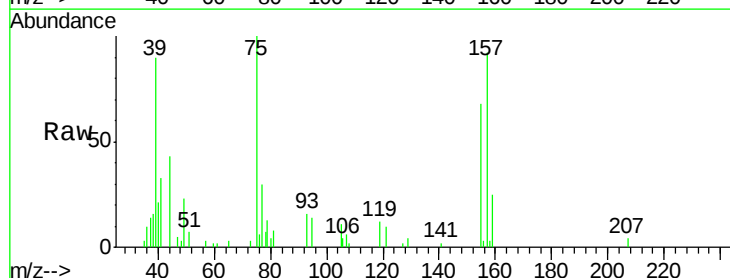
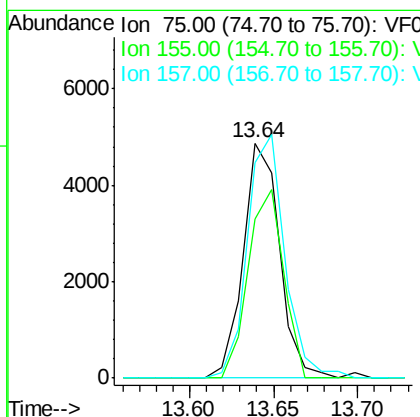
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.597 ug/l
 RT: 13.64 min Scan# 1319
 Delta R.T. -0.00 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	67.8	49.7	149.1
157	91.7	61.4	184.1





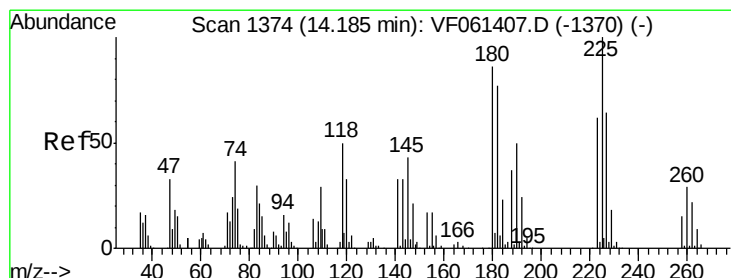
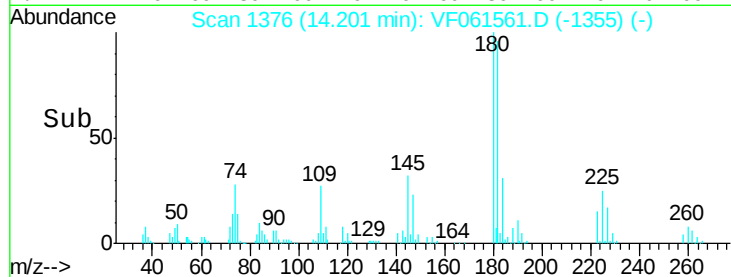
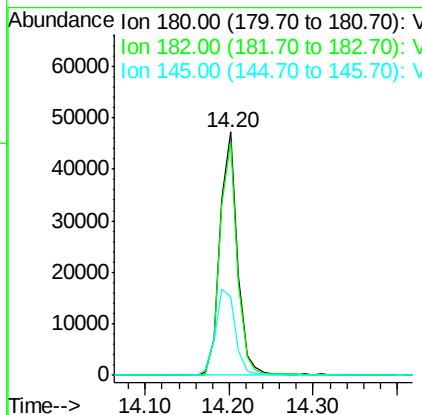
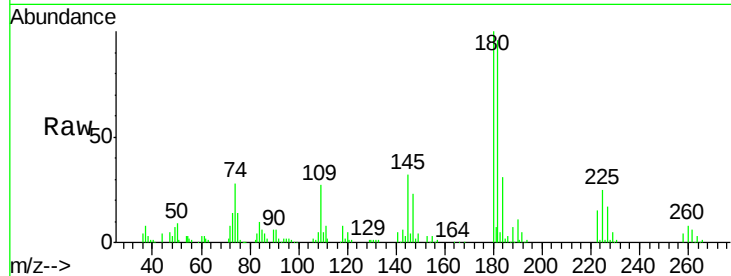
#93
 1,2,4-Trichlorobenzene
 Concen: 23.054 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0208SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	68364		
182	96.1	48.5	145.6	
145	32.2	17.5	52.6	

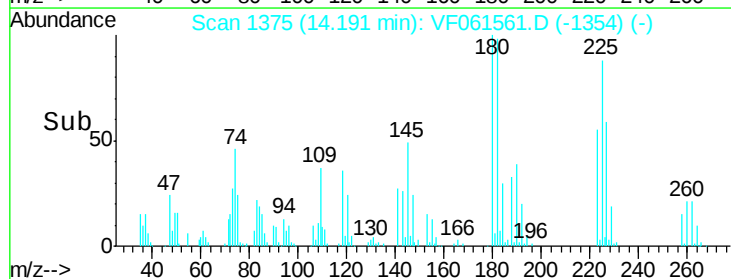
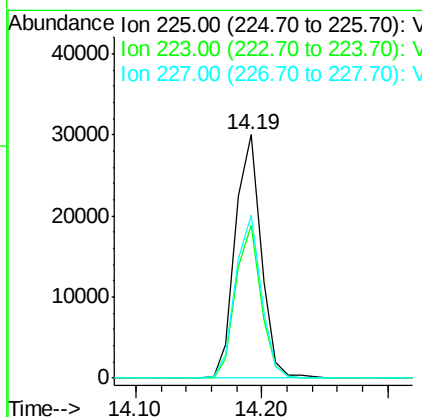
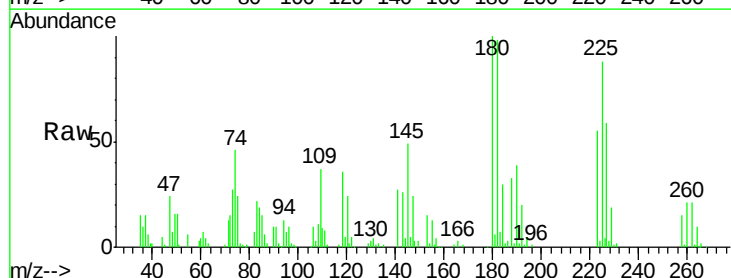
Manual Integrations
 APPROVED

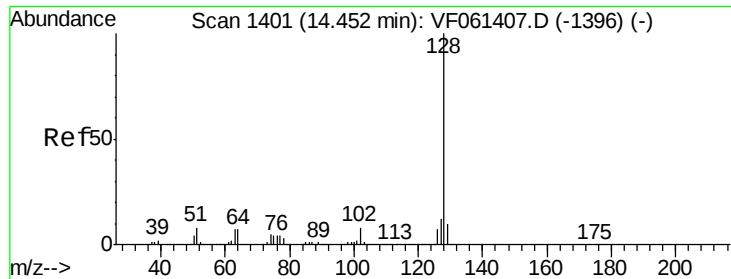
MMDadoda
 2/12/2019 2:32:06 AM



#94
 Hexachlorobutadiene
 Concen: 23.036 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. 0.01 min
 Lab File: VF061561.D
 Acq: 8 Feb 2019 16:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	42389		
223	62.8	31.1	93.2	
227	66.8	32.2	96.6	





#95

Naphthalene

Concen: 20.240 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Instrument :

MSVOA_F

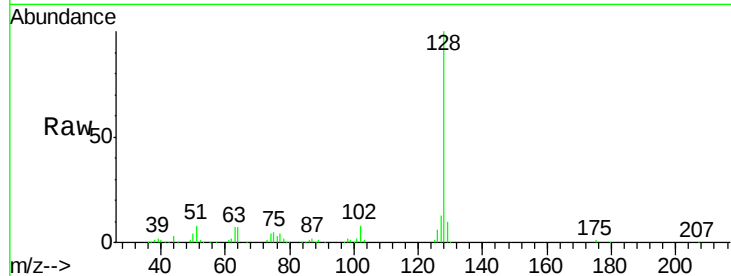
ClientSampled :

VF0208SBS01

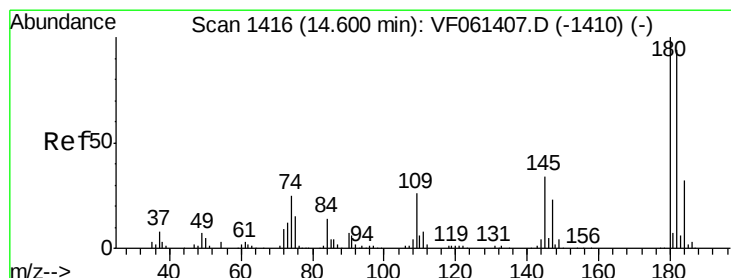
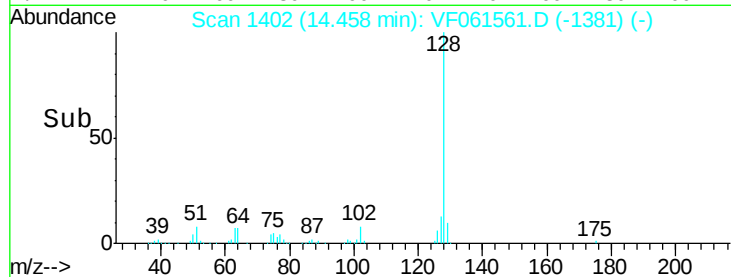
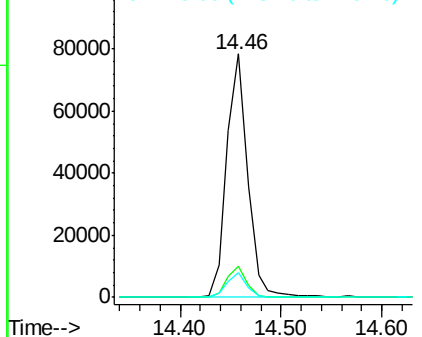
Tot Ion:	128	Resp:	114032
Ion Ratio	Lower	Upper	
128	100		
127	13.0	9.5	14.3
129	10.3	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
2/12/2019 2:32:06 AM



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 21.402 ug/l

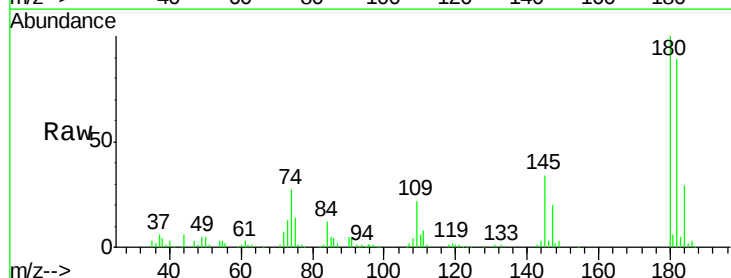
RT: 14.61 min Scan# 1417

Delta R.T. 0.01 min

Lab File: VF061561.D

Acq: 8 Feb 2019 16:50

Tgt Ion:	180	Resp:	58750
Ion Ratio	Lower	Upper	
180	100		
182	89.2	47.0	141.2
145	34.2	17.1	51.2



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

