

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061824.D
 Acq On : 4 Mar 2019 17:02
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Quant Time: Mar 05 04:47:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	325879	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.60	114	462211	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	391895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	221643	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	49062	20.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	41.06%	
35) Dibromofluoromethane	4.12	113	68993	20.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.20%	
50) Toluene-d8	7.56	98	197494	20.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.04%	
62) 4-Bromofluorobenzene	11.41	95	77311	19.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.72%	

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Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	85270	22.785	ug/l	98
3) Chloromethane	1.11	50	80295	20.449	ug/l	95
4) Vinyl Chloride	1.15	62	78820	21.593	ug/l #	88
5) Bromomethane	1.32	94	47284	18.821	ug/l	94
6) Chloroethane	1.39	64	35171	19.552	ug/l	88
7) Trichlorofluoromethane	1.49	101	89989	20.440	ug/l	90
8) Diethyl Ether	1.64	74	19844	17.885	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	1.84	101	62418	19.652	ug/l	93
10) Methyl Iodide	1.92	142	111583m	18.392	ug/l	
11) Tert butyl alcohol	2.58	59	13028	94.200	ug/l	95
12) 1,1-Dichloroethene	1.81	96	53971	19.327	ug/l	93
13) Acrolein	2.00	56	15299	88.016	ug/l	96
14) Allyl chloride	2.09	41	56962	16.623	ug/l	97
15) Acrylonitrile	2.95	53	42150	85.922	ug/l	95
16) Acetone	2.24	43	47002	91.671	ug/l	97
17) Carbon Disulfide	1.83	76	170683m	19.445	ug/l	
18) Methyl Acetate	2.36	43	21559	18.665	ug/l	92
19) Methyl tert-butyl Ether	2.44	73	94069	19.711	ug/l	100
20) Methylene Chloride	2.26	84	58369m	18.845	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	46161	15.206	ug/l	87
22) Diisopropyl ether	2.80	45	153767	18.694	ug/l	97
23) Vinyl Acetate	3.20	43	345294	85.947	ug/l	99
24) 1,1-Dichloroethane	2.88	63	94885	19.062	ug/l	97
25) 2-Butanone	4.35	43	98338	87.805	ug/l	99
26) 2,2-Dichloropropane	3.60	77	42665	20.235	ug/l	99
27) cis-1,2-Dichloroethene	3.48	96	73523	18.452	ug/l	97
28) Bromochloromethane	3.72	49	42969	17.991	ug/l	100
29) Tetrahydrofuran	4.08	42	42512	83.516	ug/l	97
30) Chloroform	3.87	83	106705	18.850	ug/l	94
31) Cyclohexane	3.69	56	95703m	17.760	ug/l	
32) 1,1,1-Trichloroethane	4.10	97	64887	17.498	ug/l	97
36) 1,1-Dichloropropene	4.28	75	91501	19.984	ug/l	95
37) Ethyl Acetate	4.12	43	40253	18.927	ug/l #	96
38) Carbon Tetrachloride	3.99	117	61772	19.538	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.46	83	104423	19.284	ug/l	98
40) Benzene	4.64	78	235950	19.701	ug/l	95
41) Methacrylonitrile	4.75	41	20832	19.154	ug/l #	91
42) 1,2-Dichloroethane	4.95	62	58394	20.383	ug/l	99
43) Isopropyl Acetate	6.96	43	43625	17.330	ug/l #	96
44) Trichloroethene	5.51	130	70485	18.199	ug/l	96 MMDadoda
45) 1,2-Dichloropropane	6.24	63	55708	19.243	ug/l #	87
46) Dibromomethane	6.09	93	34452	19.329	ug/l #	79
47) Bromodichloromethane	6.39	83	76585	19.621	ug/l	95
48) Methyl methacrylate	6.73	41	29234	19.297	ug/l	96
49) 1,4-Dioxane	6.72	88	5210	365.842	ug/l #	91 3/5/2019 10:47:20 AM
51) 4-Methyl-2-Pentanone	8.27	43	162835	90.527	ug/l	99
52) Toluene	7.63	92	138464	19.063	ug/l	99
53) t-1,3-Dichloropropene	8.29	75	63220	19.461	ug/l	97
54) cis-1,3-Dichloropropene	7.31	75	87169	20.145	ug/l	96
55) 1,1,2-Trichloroethane	8.50	97	39392	18.458	ug/l	97
56) Ethyl methacrylate	8.62	69	42171	17.749	ug/l	93
57) 1,3-Dichloropropane	8.86	76	64160	18.012	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.30	63	35368	86.274	ug/l	95
59) 2-Hexanone	9.50	43	116208	92.165	ug/l	96
60) Dibromochloromethane	8.73	129	55548	18.701	ug/l	94
61) 1,2-Dibromoethane	9.00	107	41550	17.950	ug/l	94
64) Tetrachloroethene	8.16	164	62966	19.657	ug/l	94
65) Chlorobenzene	9.80	112	155404	19.542	ug/l	96
66) 1,1,1,2-Tetrachloroethane	9.93	131	62553	20.074	ug/l	99
67) Ethyl Benzene	9.90	91	262739	19.867	ug/l	99
68) m/p-Xylenes	10.14	106	200843	39.682	ug/l	95
69) o-Xylene	10.72	106	106447	19.710	ug/l	93
70) Styrene	10.79	104	154538	20.227	ug/l	96
71) Bromoform	10.78	173	32355	19.121	ug/l #	95
73) Isopropylbenzene	11.12	105	319804	20.266	ug/l	97
74) N-amyl acetate	11.37	43	72997	19.272	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.70	83	51794	18.320	ug/l	99
76) 1,2,3-Trichloropropane	11.80	75	34608	18.005	ug/l	96
77) Bromobenzene	11.50	156	73509	18.856	ug/l	96
78) n-propylbenzene	11.60	91	355379	19.625	ug/l	95
79) 2-Chlorotoluene	11.73	91	203402	20.056	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	252698	20.036	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.87	75	16982m	18.429	ug/l	
82) 4-Chlorotoluene	11.90	91	208430	19.800	ug/l	98
83) tert-Butylbenzene	12.13	119	272983	19.541	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	254272	20.293	ug/l	95
85) sec-Butylbenzene	12.31	105	347705	19.247	ug/l	96
86) p-Isopropyltoluene	12.47	119	295893	19.517	ug/l	97
87) 1,3-Dichlorobenzene	12.48	146	138067	18.166	ug/l	98
88) 1,4-Dichlorobenzene	12.56	146	134997	18.469	ug/l	98
89) n-Butylbenzene	12.85	91	291435	20.357	ug/l	91
90) Hexachloroethane	12.92	117	69647	19.752	ug/l	91
91) 1,2-Dichlorobenzene	12.95	146	135363	18.725	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.65	75	7441	16.601	ug/l	70

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VSTDICC020

Manual Integrations
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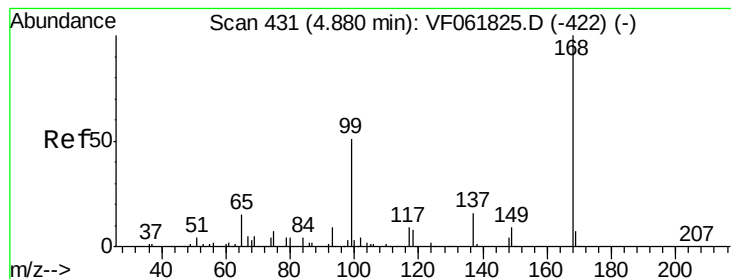
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QLast Update : Tue Mar 05 04:04:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	93612	18.066	ug/l	96
94) Hexachlorobutadiene	14.19	225	62871	19.646	ug/l	98
95) Naphthalene	14.46	128	159176	17.558	ug/l	99
96) 1,2,3-Trichlorobenzene	14.61	180	88157	18.536	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 325879

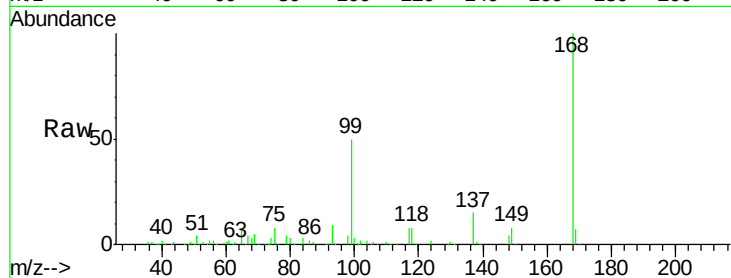
Ion Ratio Lower Upper

168 100

99 50.4 34.9 52.3

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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

120000

100000

80000

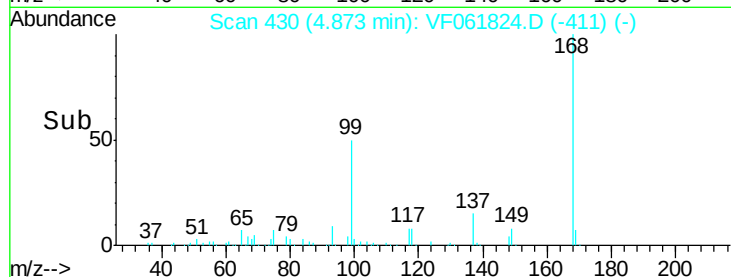
60000

40000

20000

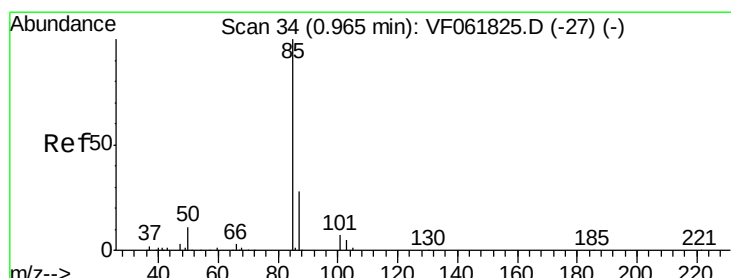
0

Time--> 4.70 4.80 4.90 5.00 5.10



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#2

Dichlorodifluoromethane

Concen: 22.785 ug/l

RT: 0.97 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061824.D

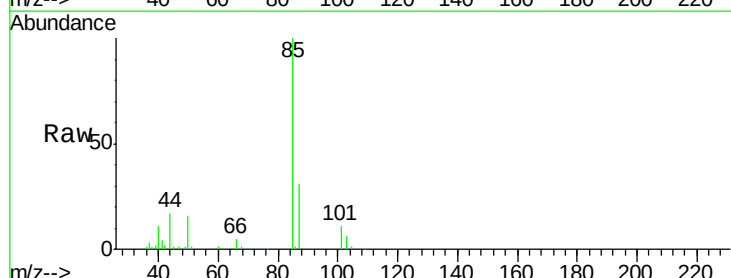
Acq: 4 Mar 2019 17:02

Tgt Ion: 85 Resp: 85270

Ion Ratio Lower Upper

85 100

87 31.1 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

25000

20000

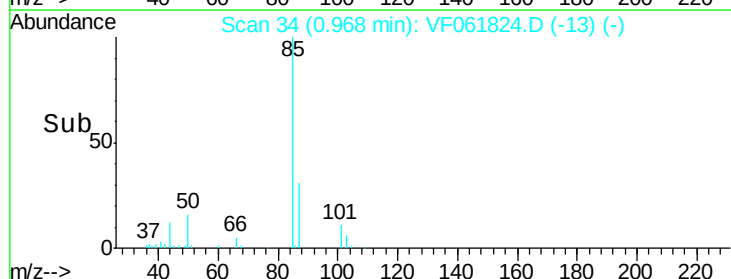
15000

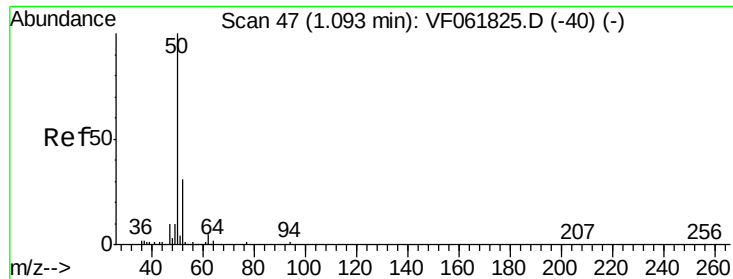
10000

5000

0

Time--> 0.80 0.90 1.00 1.10





#3

Chloromethane

Concen: 20.449 ug/l

RT: 1.11 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

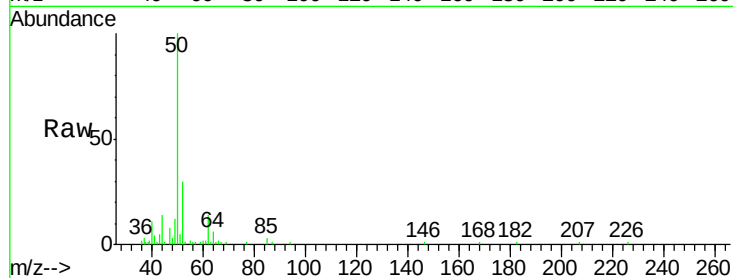
Tot Ion: 50 Resp: 80295

Ion Ratio Lower Upper

50 100

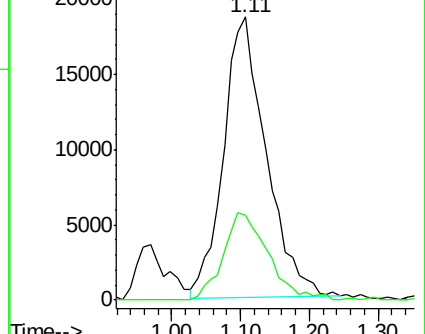
52 30.2 26.2 39.4

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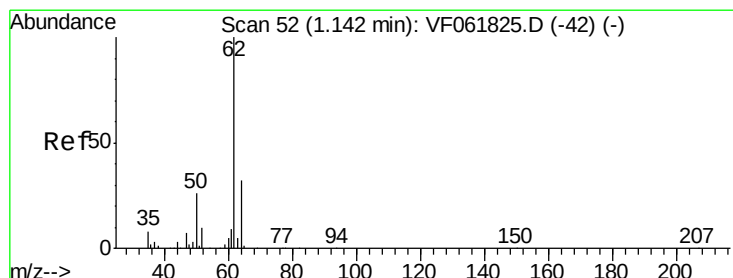
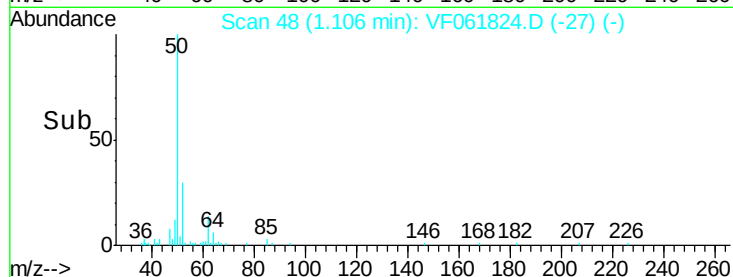
Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



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#4

Vinyl Chloride

Concen: 21.593 ug/l

RT: 1.15 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061824.D

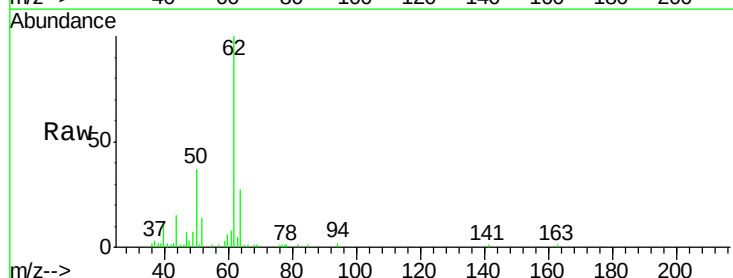
Acq: 4 Mar 2019 17:02

Tgt Ion: 62 Resp: 78820

Ion Ratio Lower Upper

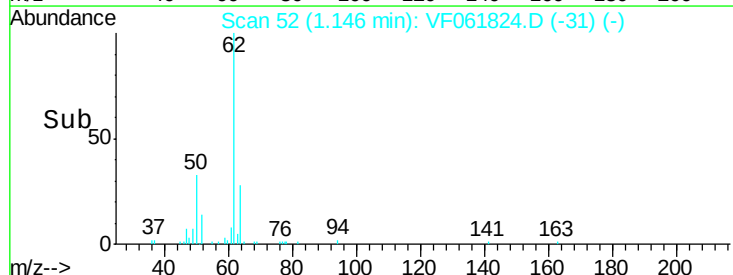
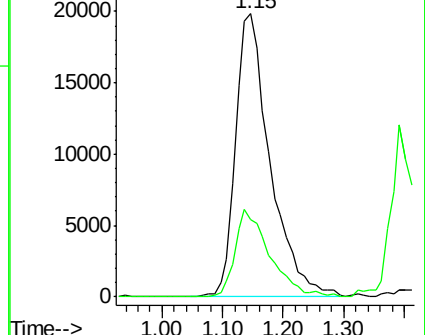
62 100

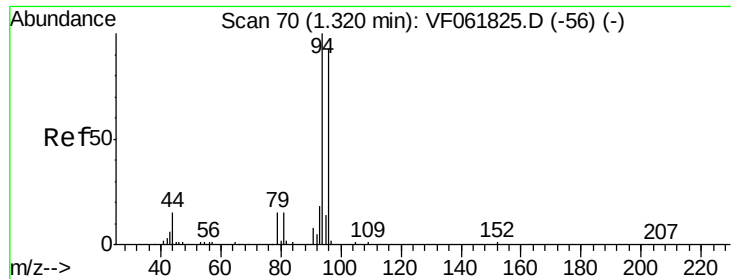
64 27.4 27.5 41.3#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 18.821 ug/l

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

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ClientSampleId :

VSTDIC020

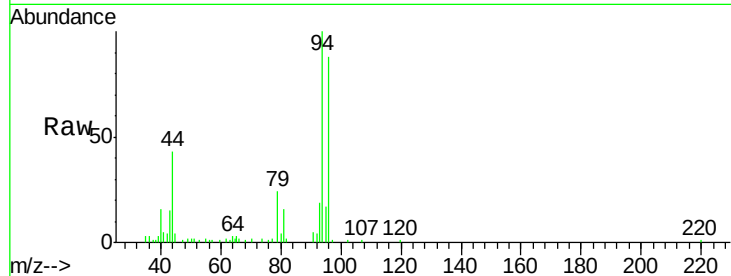
Tot Ion: 94 Resp: 47284

Ion Ratio Lower Upper

94 100

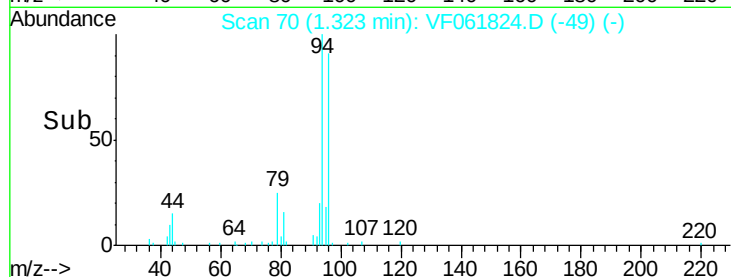
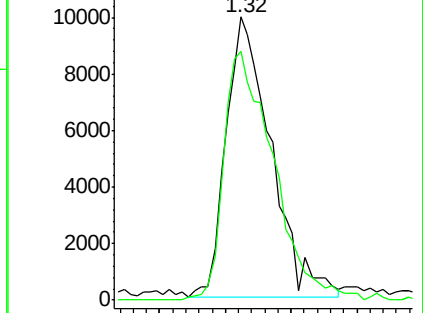
96 87.8 74.6 112.0

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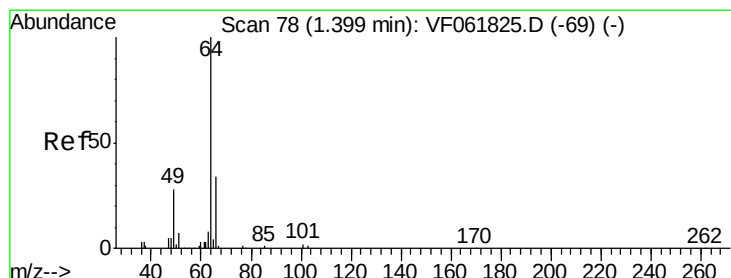
Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



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#6

Chloroethane

Concen: 19.552 ug/l

RT: 1.39 min Scan# 77

Delta R.T. -0.00 min

Lab File: VF061824.D

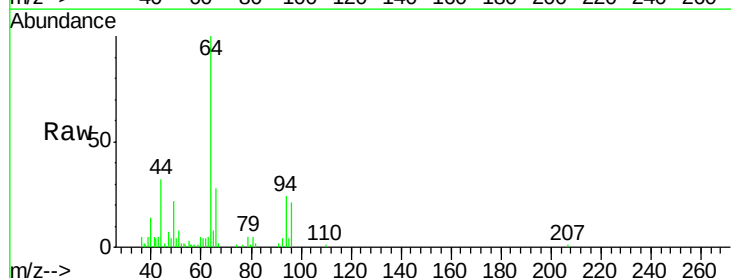
Acq: 4 Mar 2019 17:02

Tgt Ion: 64 Resp: 35171

Ion Ratio Lower Upper

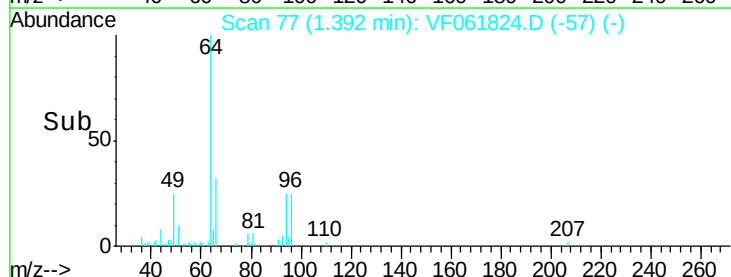
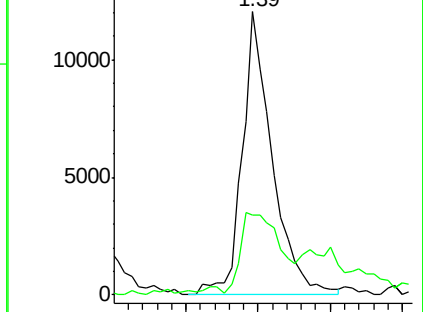
64 100

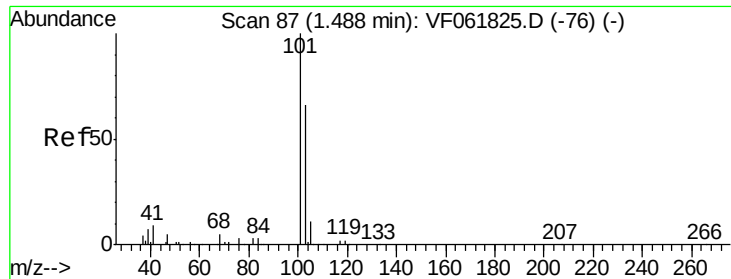
66 28.2 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





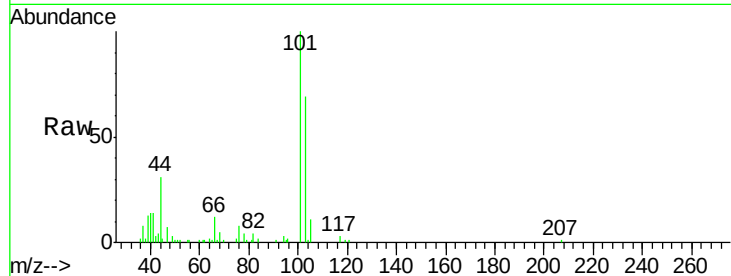
#7

Trichlorofluoromethane
Concen: 20.440 ug/l
RT: 1.49 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

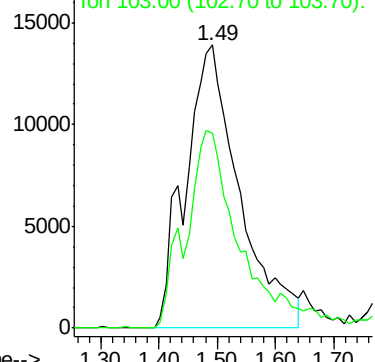
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	69.0	49.3	73.9

Manual Integrations
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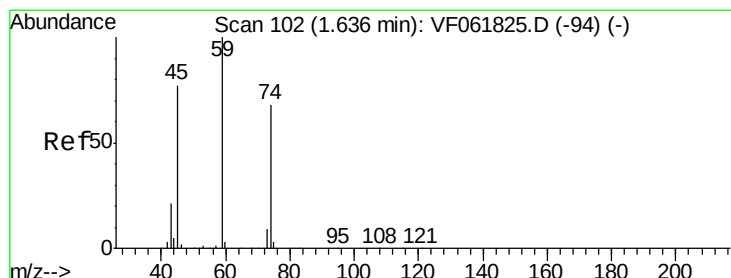
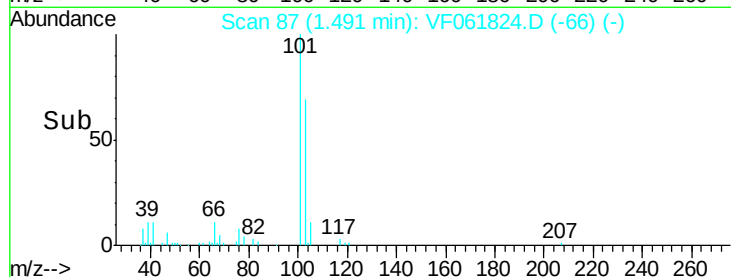


Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



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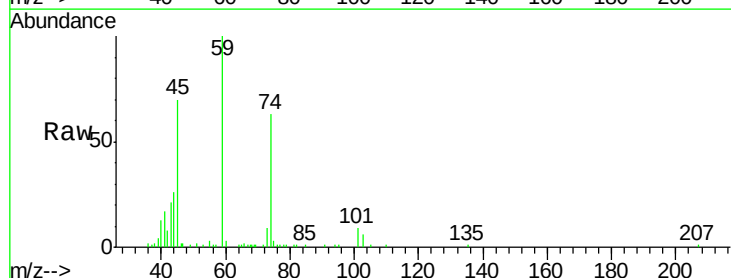
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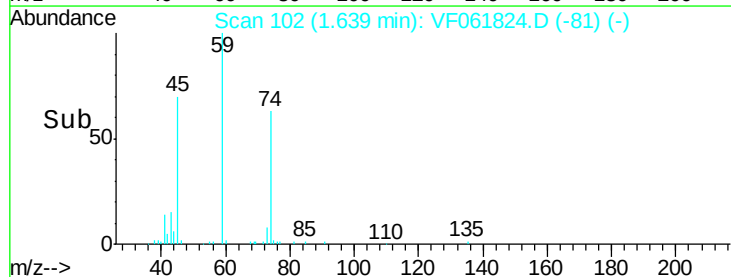
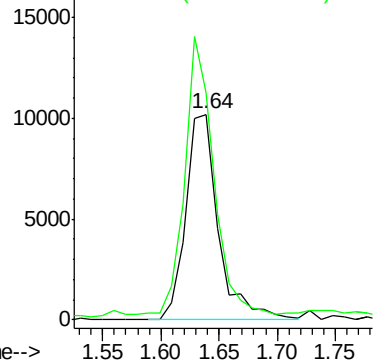
#8

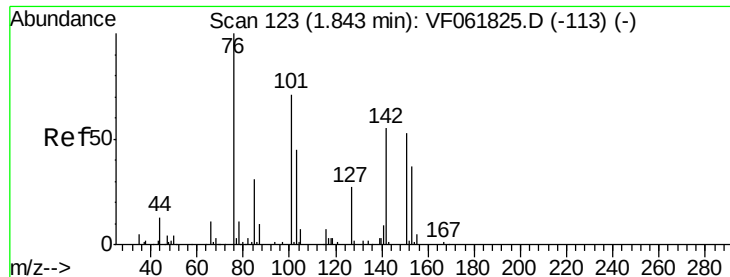
Diethyl Ether
Concen: 17.885 ug/l
RT: 1.64 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
74	100		
45	110.3	60.8	182.3



Abundance Ion 74.00 (73.70 to 74.70): VF0
Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.652 ug/l

RT: 1.84 min Scan# 122

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

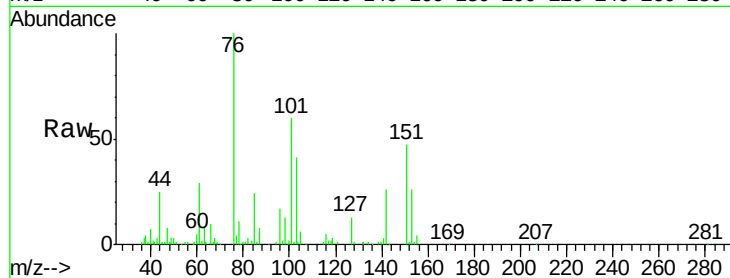
MSVOA_F

ClientSampleId :

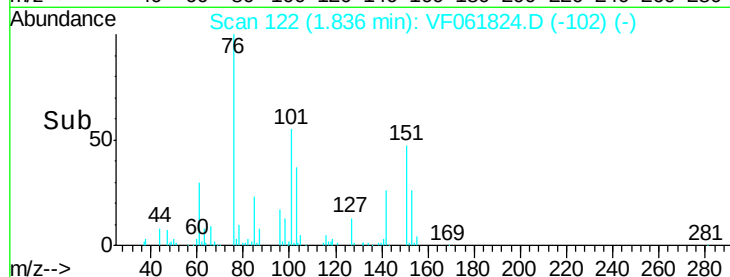
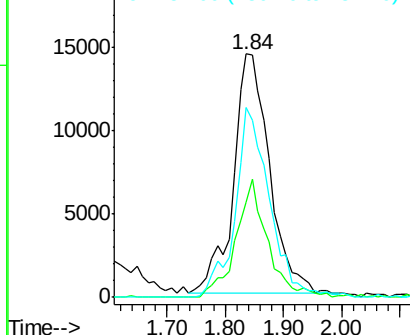
VSTDIC020

Tot Ion:	101	Resp:	62418
Ion Ratio	Lower	Upper	
101	100		
85	39.1	29.8	44.6
151	77.7	56.3	84.5

Manual Integrations
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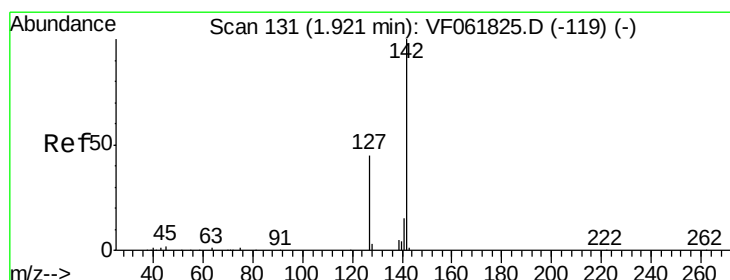


Abundance Ion 101.00 (100.70 to 101.70): V
Ion 85.00 (84.70 to 85.70): VF0
Ion 151.00 (150.70 to 151.70): V



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#10

Methyl Iodide

Concen: 18.392 ug/l m

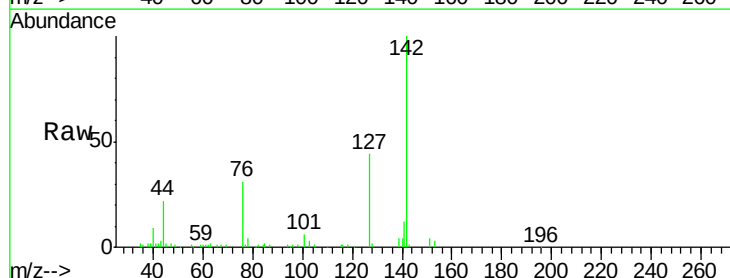
RT: 1.92 min Scan# 130

Delta R.T. 0.00 min

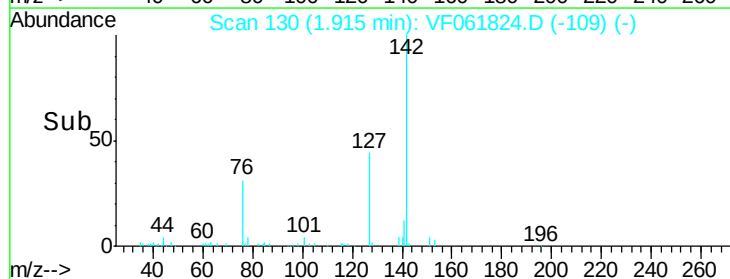
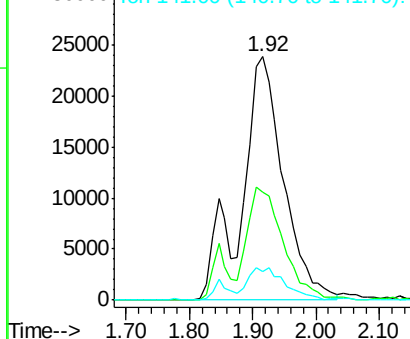
Lab File: VF061824.D

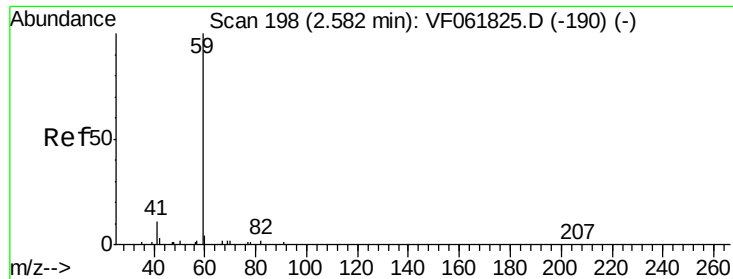
Acq: 4 Mar 2019 17:02

Tgt Ion:	142	Resp:	111583
Ion Ratio	Lower	Upper	
142	100		
127	44.4	36.6	55.0
141	12.0	11.0	16.6



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 141.00 (140.70 to 141.70): V





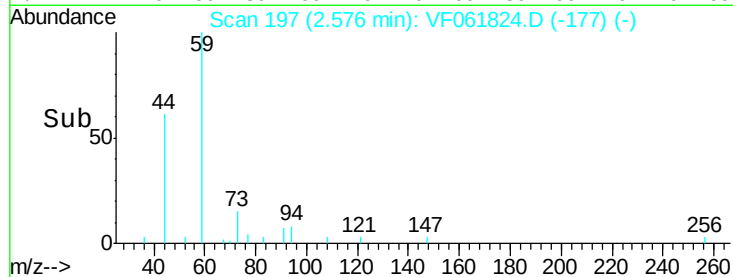
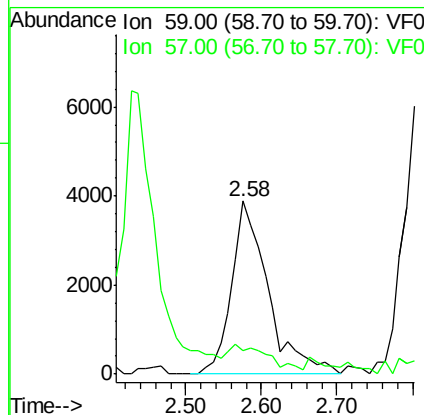
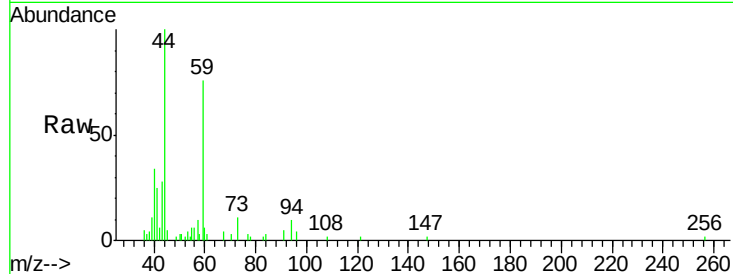
#11

Tert butyl alcohol
Concen: 94.200 ug/l
RT: 2.58 min Scan# 197
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampled :
VSTDIC020

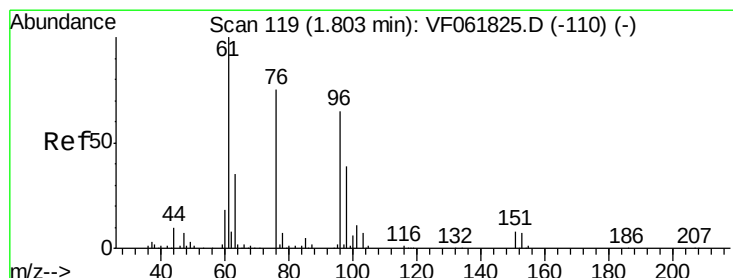
Tot Ion: 59 Resp: 13028
Ion Ratio Lower Upper
59 100
57 13.4 12.5 18.7

Manual Integrations
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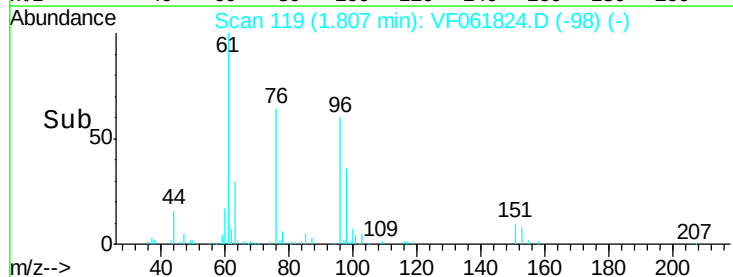
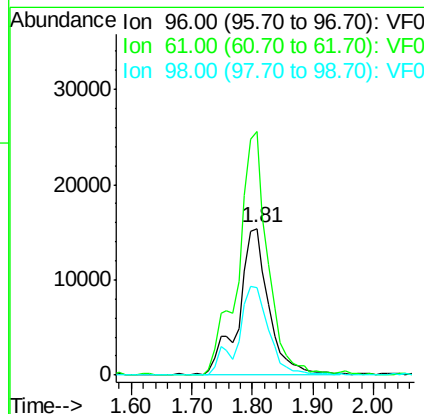
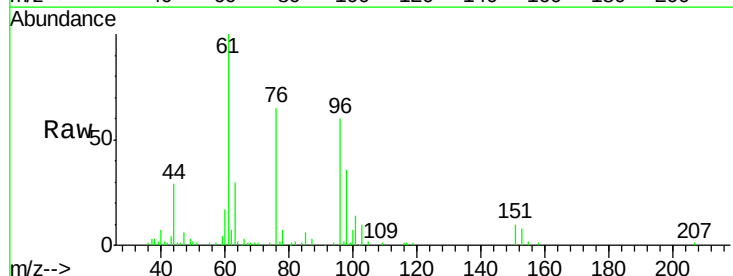
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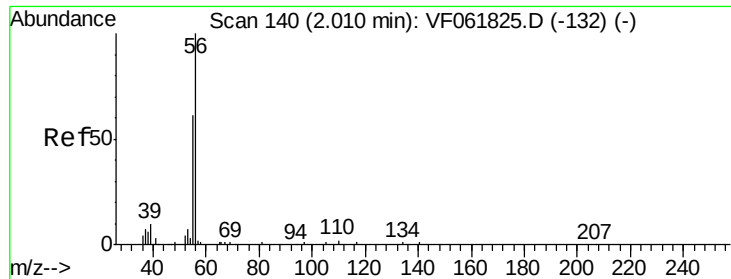


#12

1,1-Dichloroethene
Concen: 19.327 ug/l
RT: 1.81 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion: 96 Resp: 53971
Ion Ratio Lower Upper
96 100
61 165.8 122.6 184.0
98 59.4 47.2 70.8





#13

Acrolein

Concen: 88.016 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

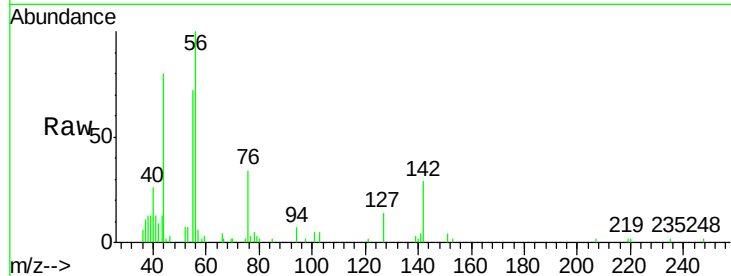
Tot Ion: 56 Resp: 15299

Ion Ratio Lower Upper

56 100

55 72.2 55.0 82.6

Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

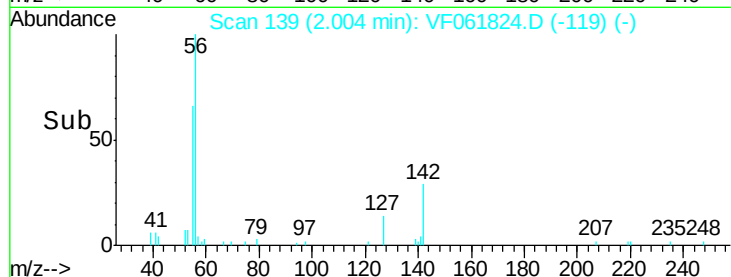
6000

4000

2000

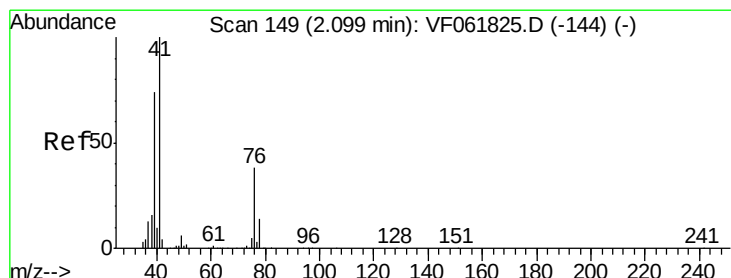
0

Time--> 1.90 2.00 2.10



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#14

Allyl chloride

Concen: 16.623 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

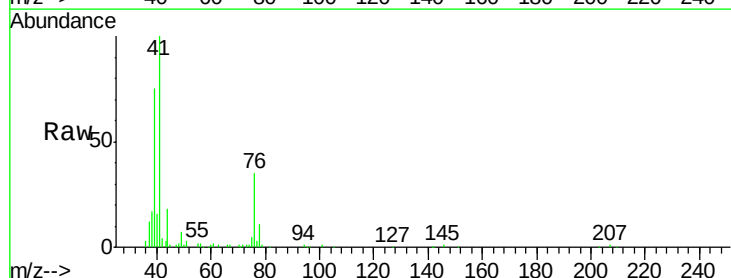
Tgt Ion: 41 Resp: 56962

Ion Ratio Lower Upper

41 100

39 74.8 61.6 92.4

76 34.8 30.3 45.5



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

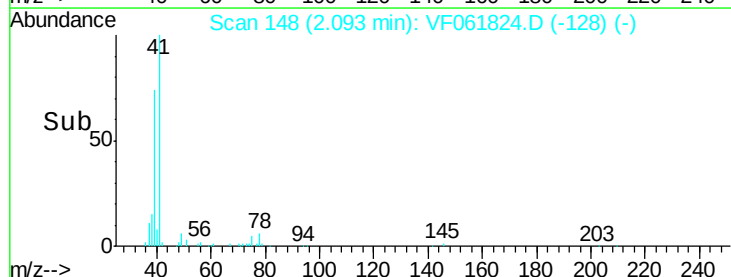
30000

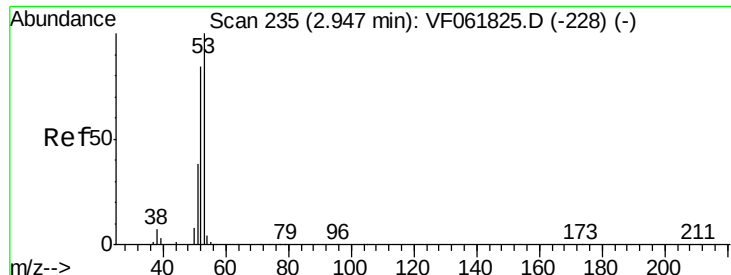
20000

10000

0

Time--> 2.00 2.05 2.10 2.15





#15

Acrylonitrile

Concen: 85.922 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

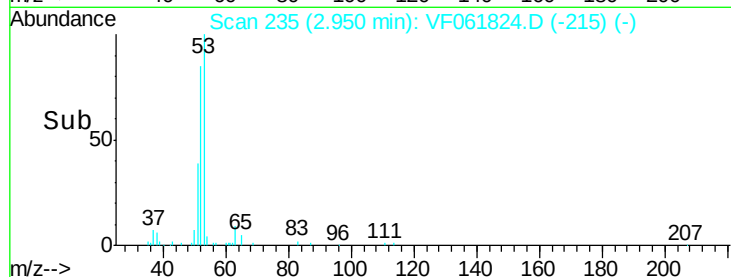
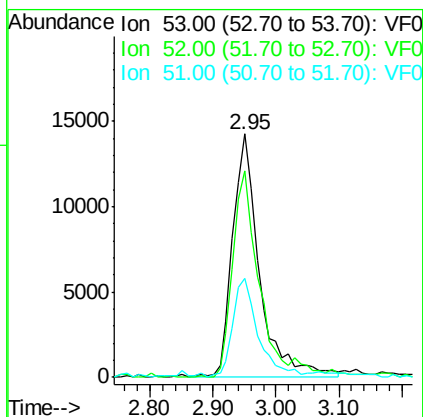
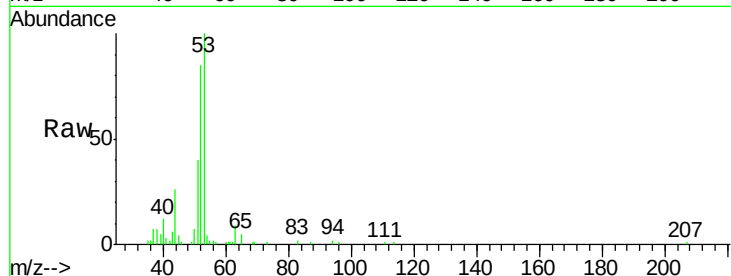
MSVOA_F

ClientSampleId :

VSTDIC020

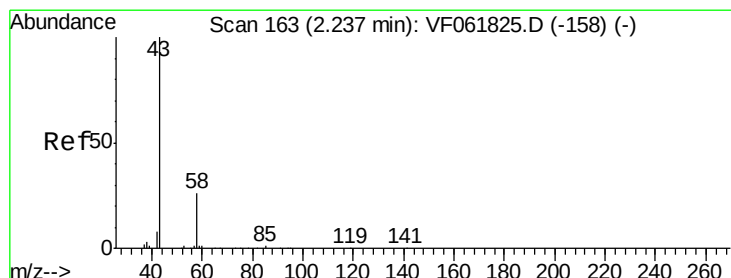
Tot Ion:	53	Resp:	42150
Ion	Ratio	Lower	Upper
53	100		
52	84.9	64.6	97.0
51	40.5	29.8	44.8

Manual Integrations
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#16

Acetone

Concen: 91.671 ug/l

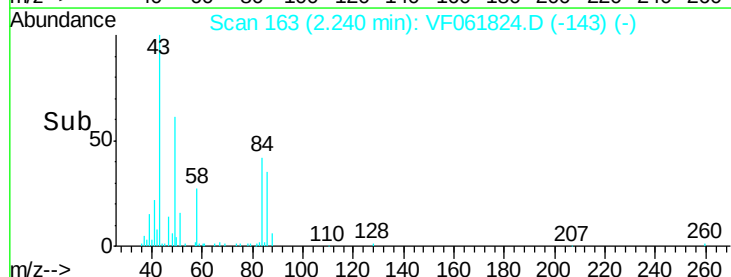
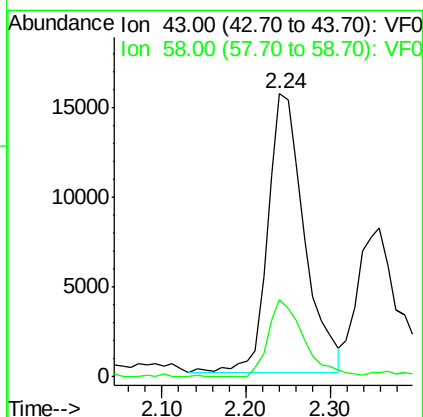
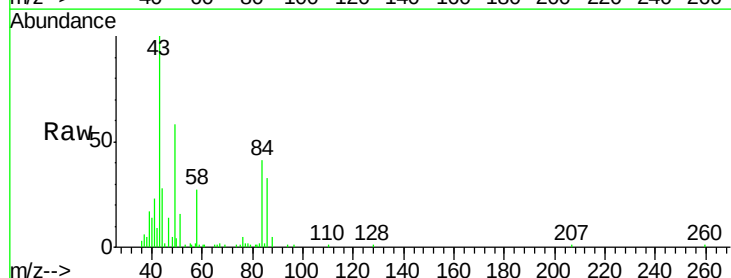
RT: 2.24 min Scan# 163

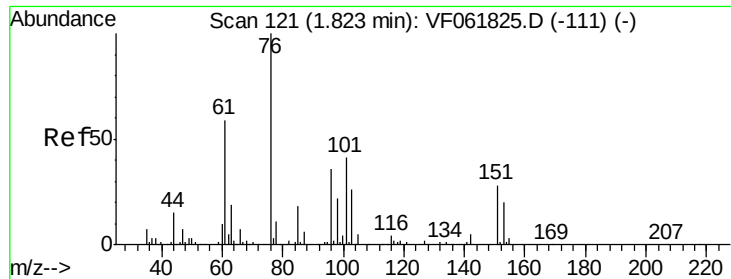
Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion:	43	Resp:	47002
Ion	Ratio	Lower	Upper
43	100		
58	27.1	22.9	34.3





#17

Carbon Disulfide

Concen: 19.445 ug/l m

RT: 1.83 min Scan# 121

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tot Ion: 76 Resp: 170683

Ion Ratio Lower Upper

76 100

78 8.8 7.9 11.9

Instrument :

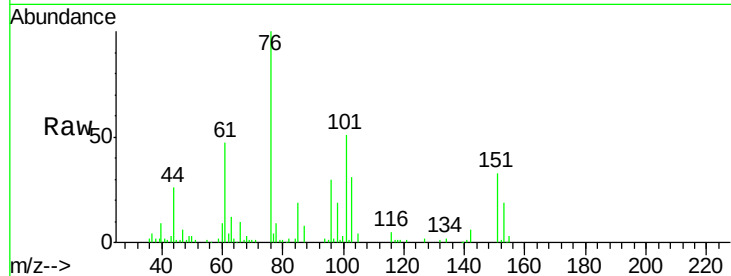
MSVOA_F

ClientSampleId :

VSTDIC020

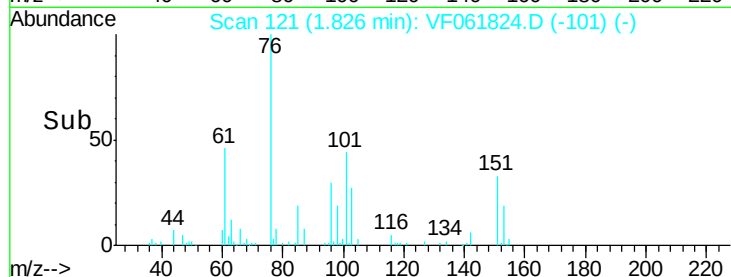
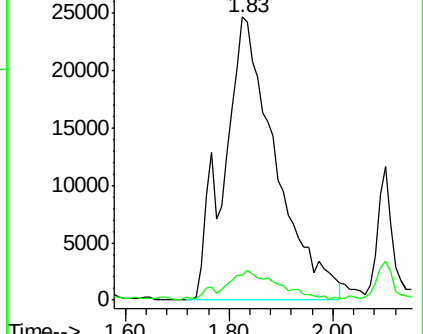
Manual Integrations

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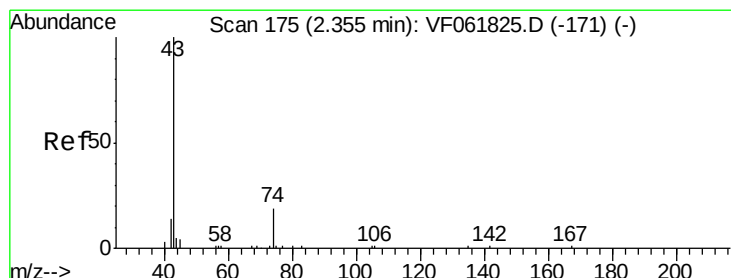
Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



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#18

Methyl Acetate

Concen: 18.665 ug/l

RT: 2.36 min Scan# 175

Delta R.T. 0.00 min

Lab File: VF061824.D

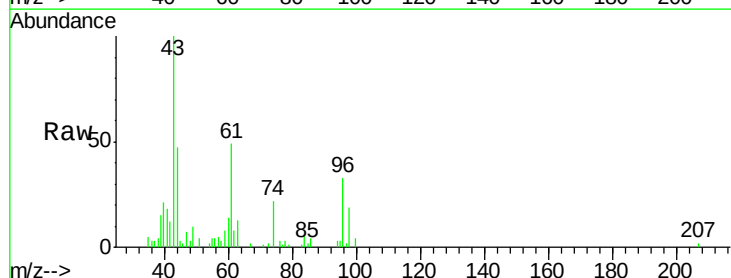
Acq: 4 Mar 2019 17:02

Tgt Ion: 43 Resp: 21559

Ion Ratio Lower Upper

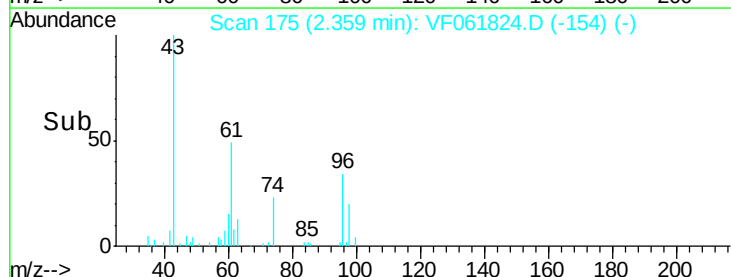
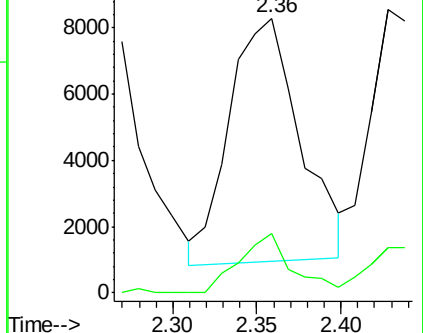
43 100

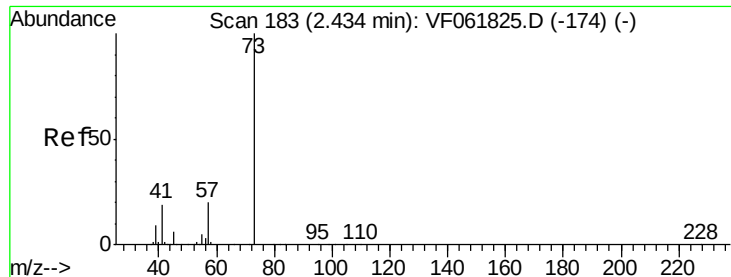
74 21.7 14.6 21.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0



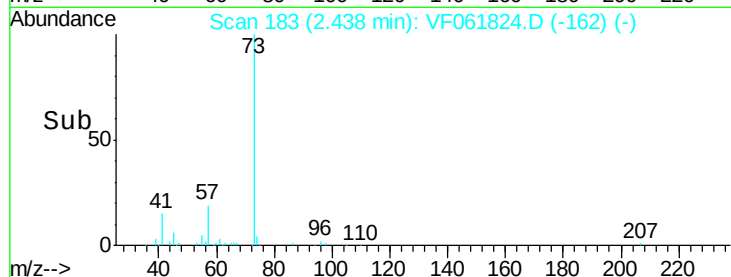
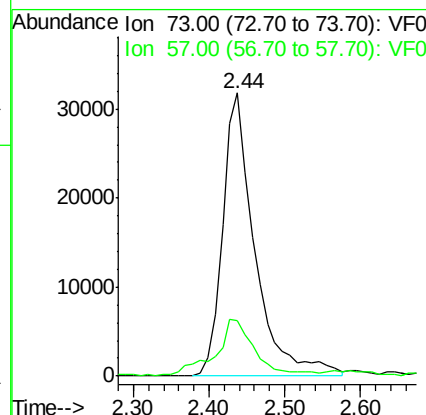
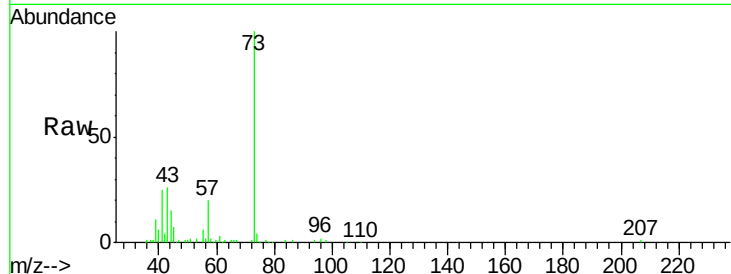


#19
Methyl tert-butyl Ether
Concen: 19.711 ug/l
RT: 2.44 min Scan# 183
Delta R.T. 0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

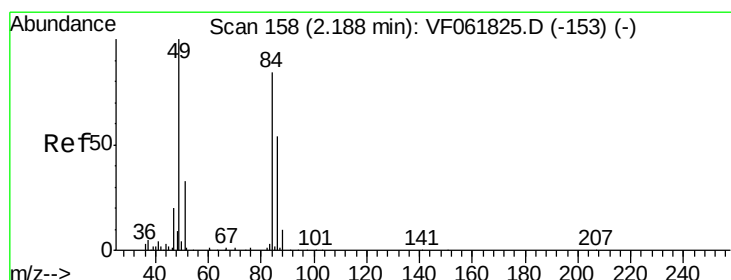
Tot Ion	Ratio	Lower	Upper
73	100		
57	19.8	15.8	23.8

Manual Integrations
APPROVED



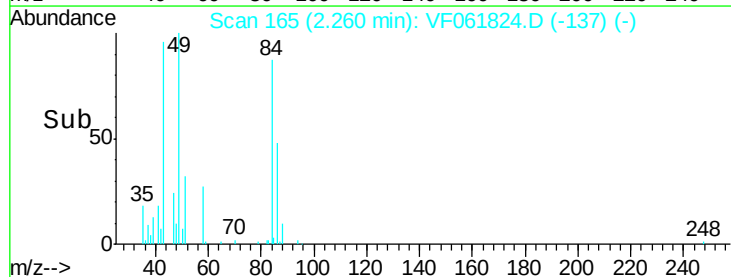
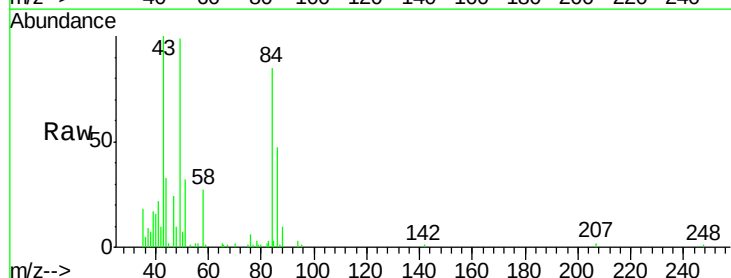
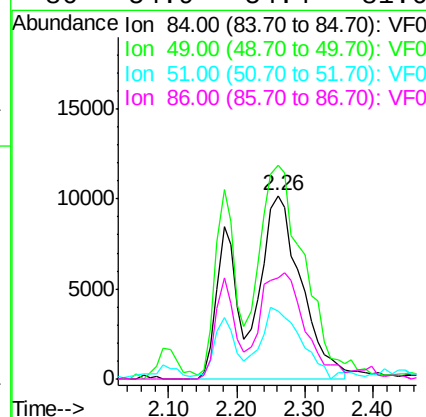
MMDadoda

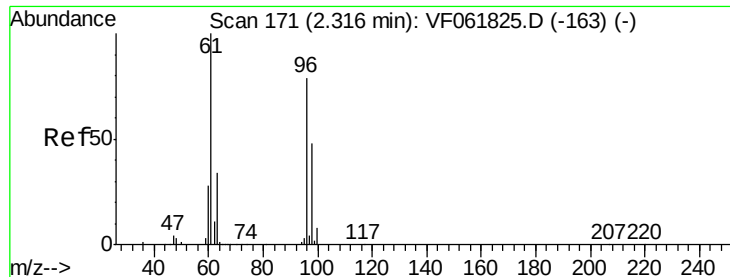
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#20
Methylene Chloride
Concen: 18.845 ug/l m
RT: 2.26 min Scan# 165
Delta R.T. 0.07 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
84	100		
49	116.6	101.8	152.8
51	37.1	31.1	46.7
86	54.9	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 15.206 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

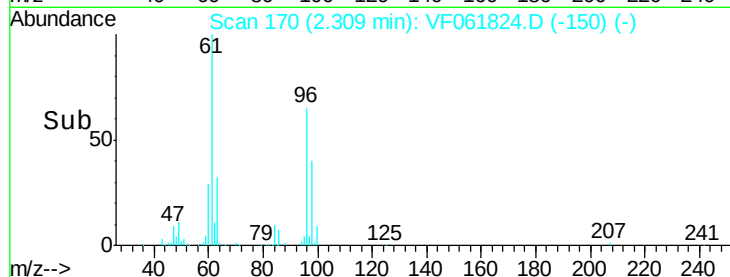
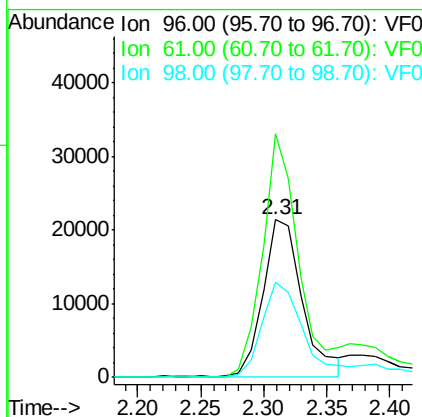
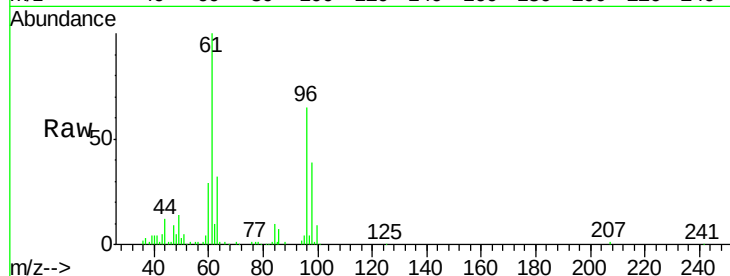
MSVOA_F

ClientSampleId :

VSTDIC020

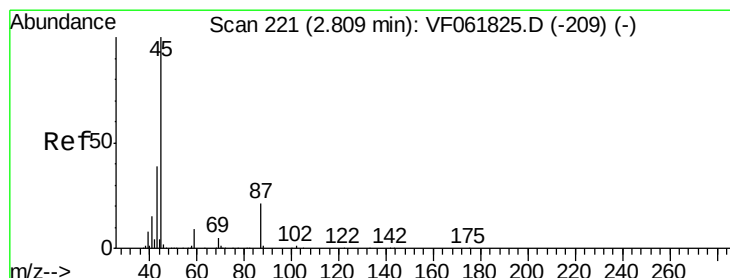
Tot Ion:	96	Resp:	46161
Ion	Ratio	Lower	Upper
96	100		
61	154.5	108.2	162.4
98	60.7	52.2	78.2

Manual Integrations
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#22

Diisopropyl ether

Concen: 18.694 ug/l

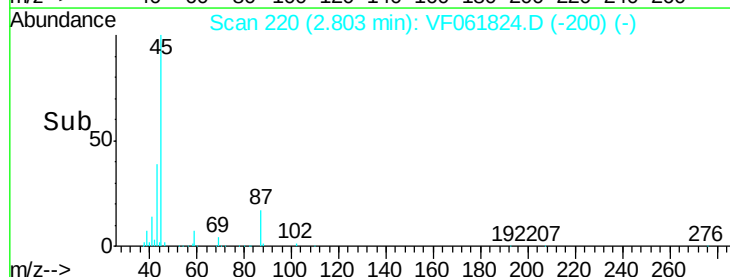
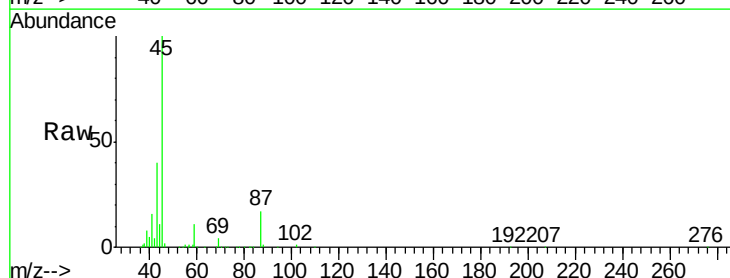
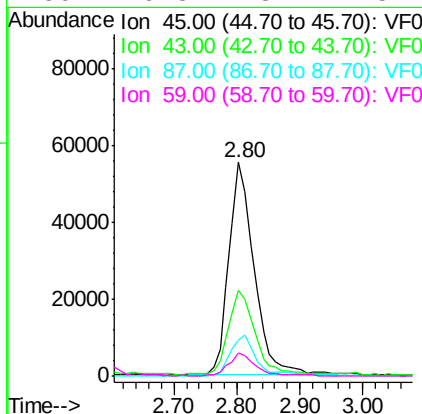
RT: 2.80 min Scan# 220

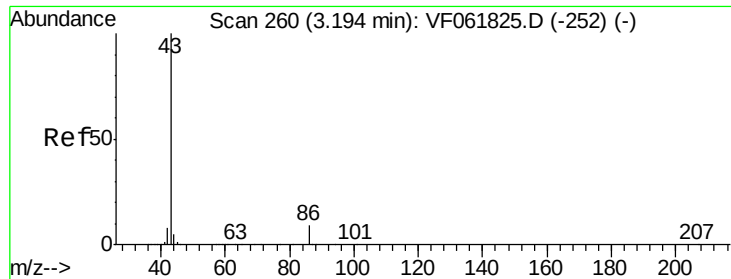
Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion:	45	Resp:	153767
Ion	Ratio	Lower	Upper
45	100		
43	40.3	31.4	47.2
87	16.7	16.3	24.5
59	10.8	8.7	13.1





#23

Vinyl Acetate

Concen: 85.947 ug/l

RT: 3.20 min Scan# 260

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

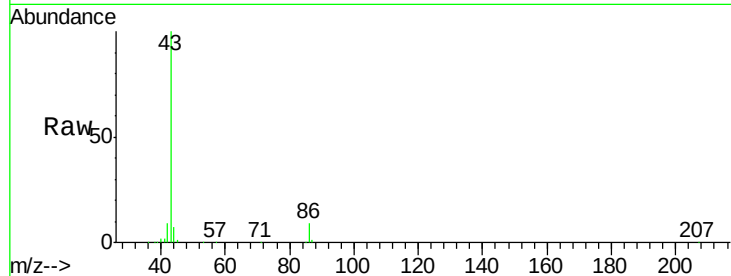
Tot Ion: 43 Resp: 345294

Ion Ratio Lower Upper

43 100

86 8.9 7.5 11.3

Manual Integrations
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.20

150000

100000

50000

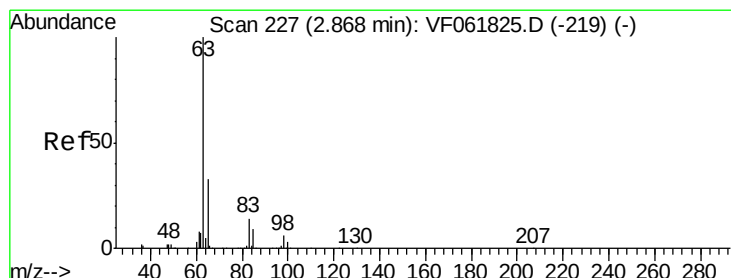
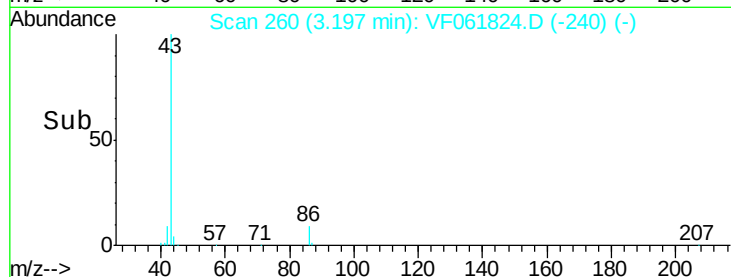
0

3.00 3.10 3.20 3.30 3.40

Time-->

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#24

1,1-Dichloroethane

Concen: 19.062 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

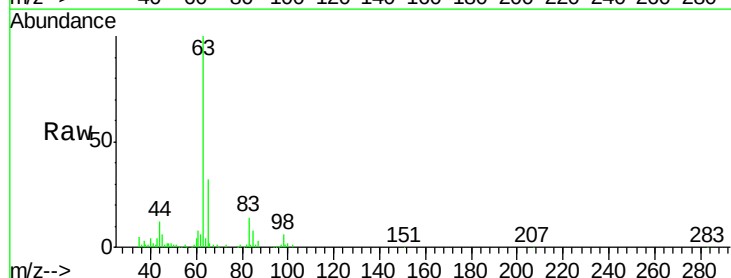
Tgt Ion: 63 Resp: 94885

Ion Ratio Lower Upper

63 100

98 6.0 2.8 8.3

100 2.1 1.8 5.4



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

2.88

40000

30000

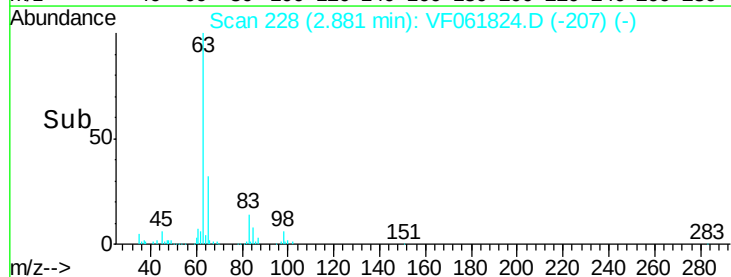
20000

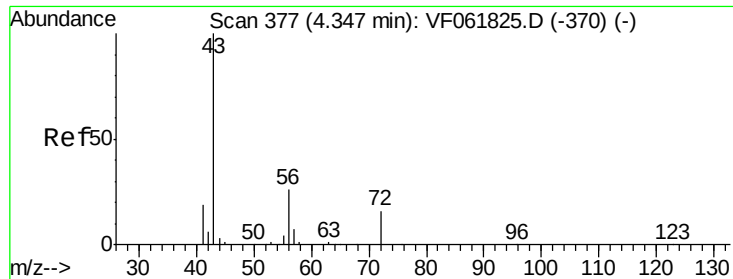
10000

0

2.70 2.80 2.90 3.00 3.10

Time-->





#25

2-Butanone

Concen: 87.805 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

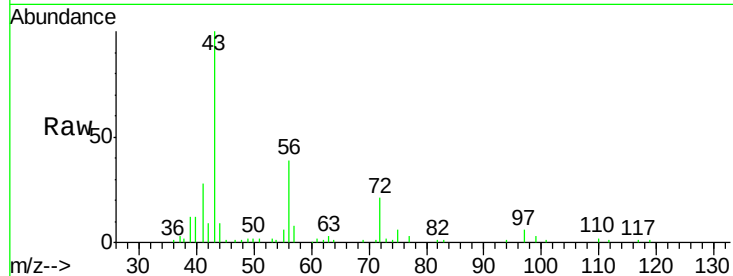
Tot Ion: 43 Resp: 98338

Ion Ratio Lower Upper

43 100

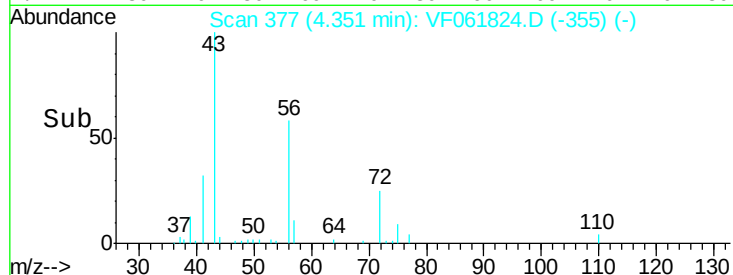
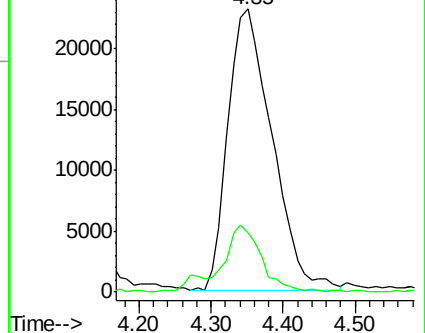
72 21.0 17.1 25.7

Manual Integrations
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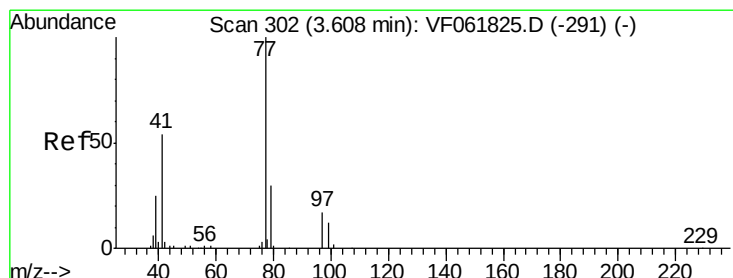
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



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#26

2,2-Dichloropropane

Concen: 20.235 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.01 min

Lab File: VF061824.D

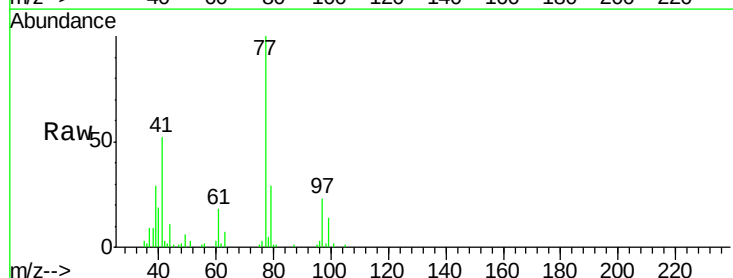
Acq: 4 Mar 2019 17:02

Tgt Ion: 77 Resp: 42665

Ion Ratio Lower Upper

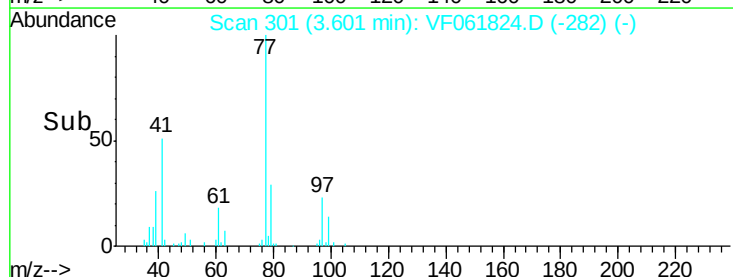
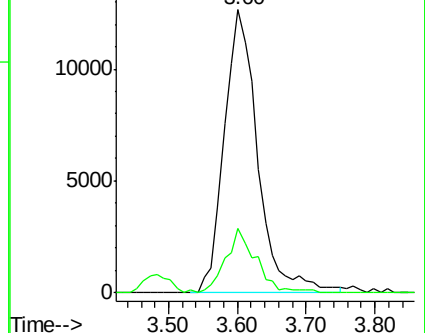
77 100

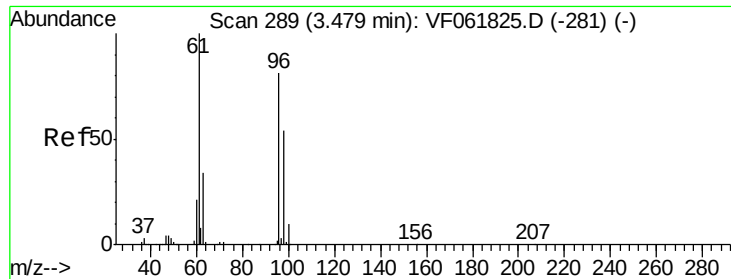
97 22.6 11.7 35.0



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





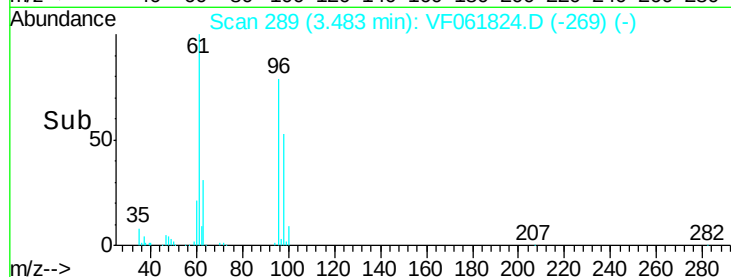
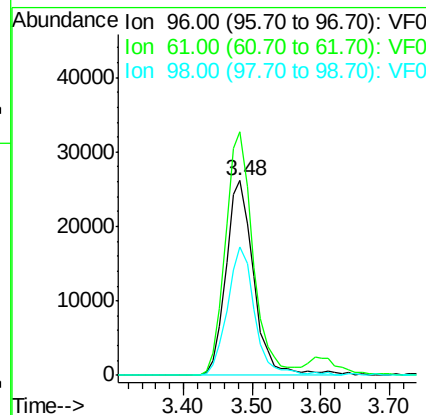
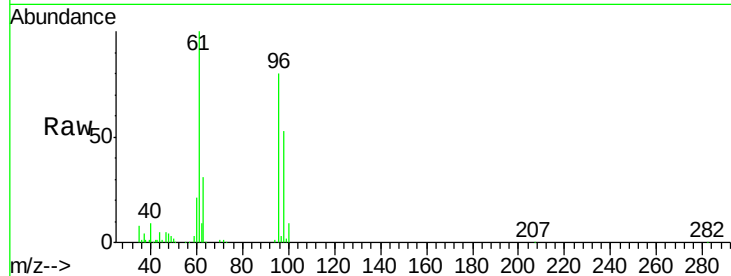
#27

cis-1,2-Dichloroethene
Concen: 18.452 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

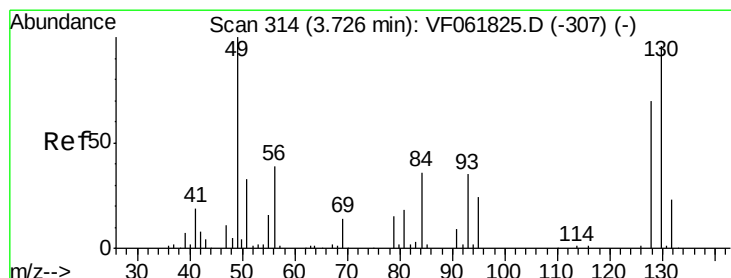
Tot Ion	Ratio	Lower	Upper
96	100		
61	125.1	0.0	241.6
98	66.0	0.0	130.2

Manual Integrations
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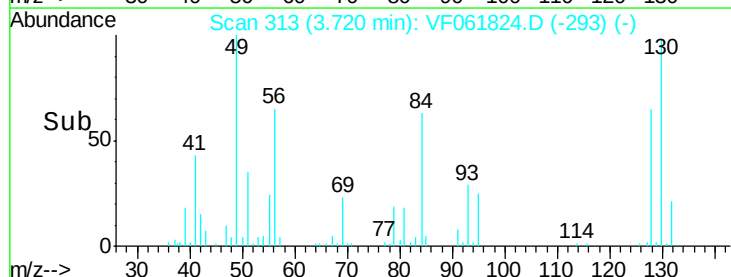
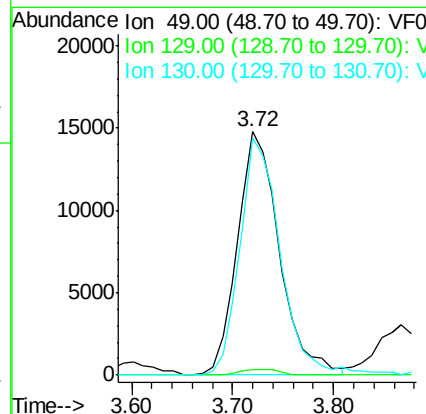
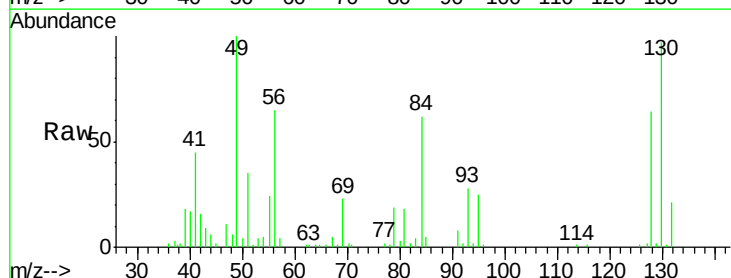
3/5/2019 10:47:20 AM

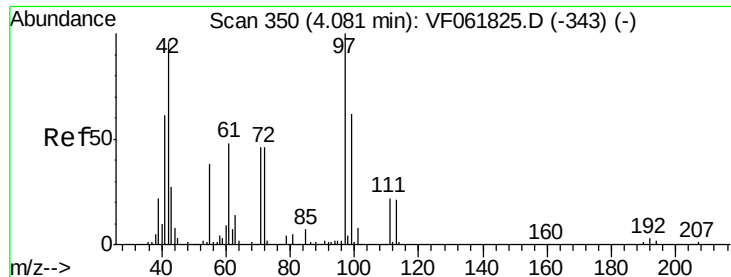


#28

Bromochloromethane
Concen: 17.991 ug/l
RT: 3.72 min Scan# 313
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	3.4
130	97.2	77.7	116.5



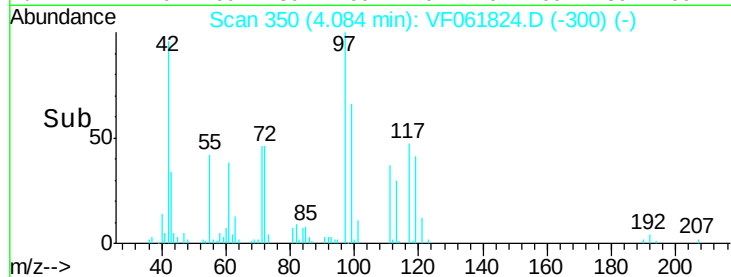
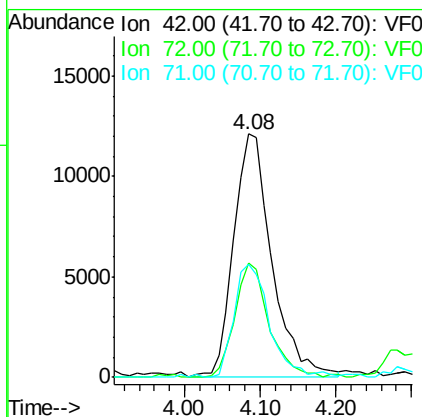
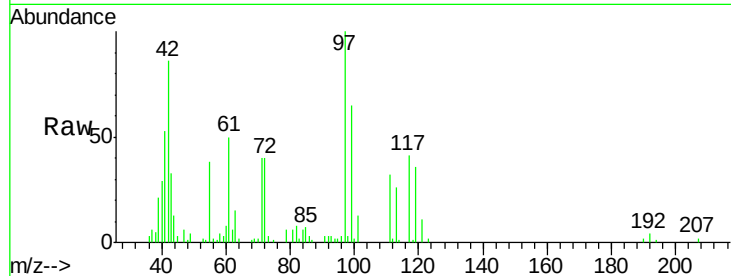


#29
Tetrahydrofuran
Concen: 83.516 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

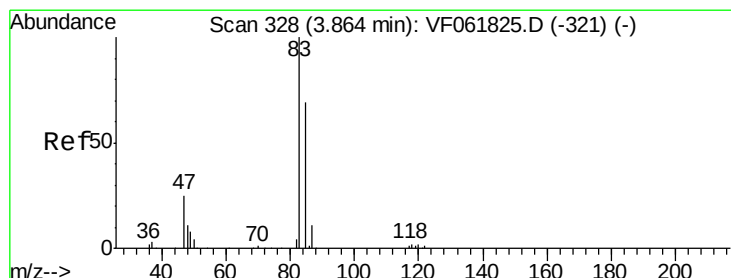
Tot Ion	Ratio	Lower	Upper
42	100		
72	41.5	35.2	52.8
71	43.0	32.9	49.3

Manual Integrations
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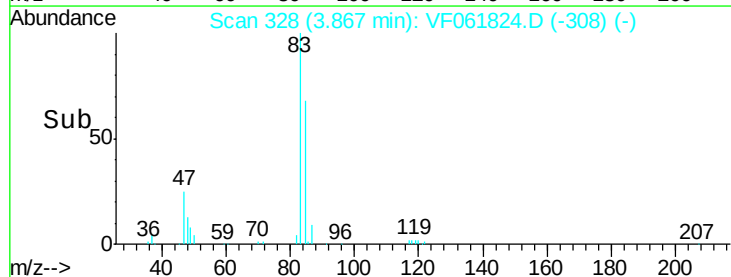
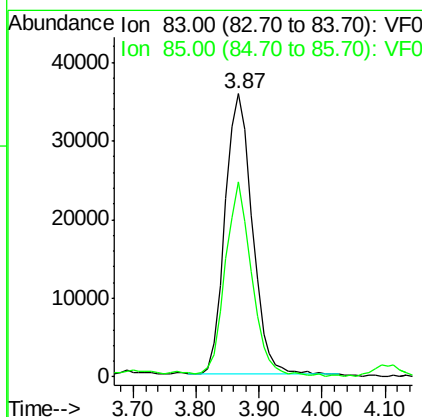
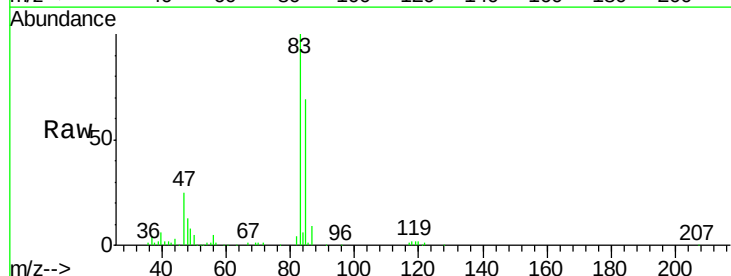
MMDadoda

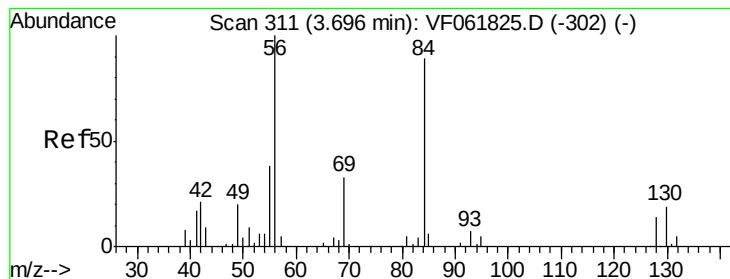
3/5/2019 10:47:20 AM



#30
Chloroform
Concen: 18.850 ug/l
RT: 3.87 min Scan# 328
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.7	51.1	76.7





#31

Cyclohexane

Concen: 17.760 ug/l m

RT: 3.69 min Scan# 310

Delta R.T. -0.01 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 95703

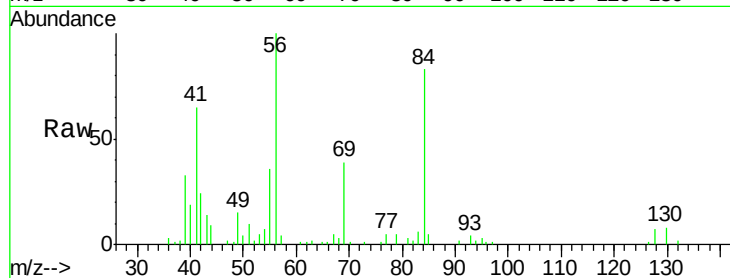
Ion Ratio Lower Upper

56 100

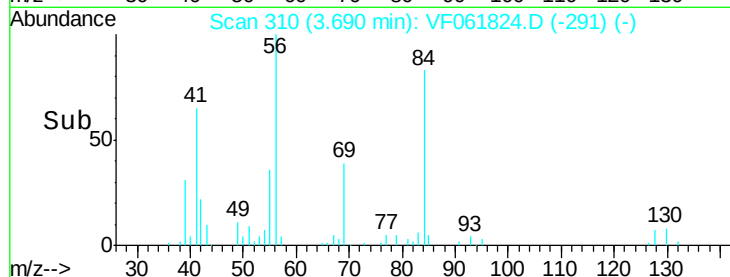
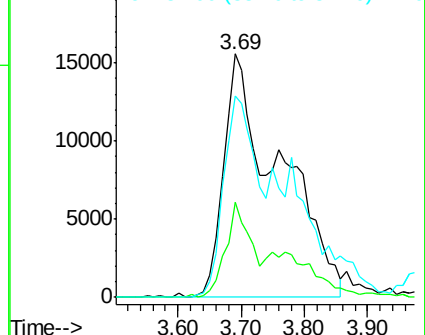
69 39.1 23.8 35.8#

84 82.7 68.6 103.0

Manual Integrations
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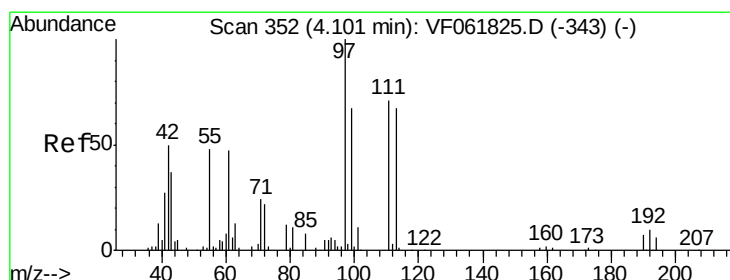


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0



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#32

1,1,1-Trichloroethane

Concen: 17.498 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

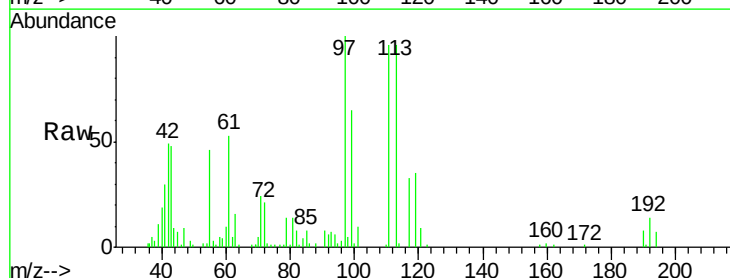
Tgt Ion: 97 Resp: 64887

Ion Ratio Lower Upper

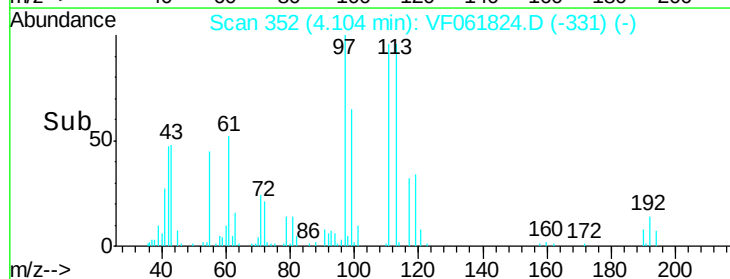
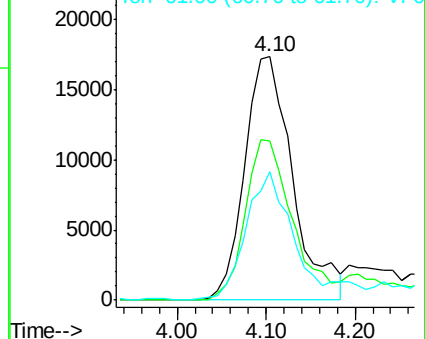
97 100

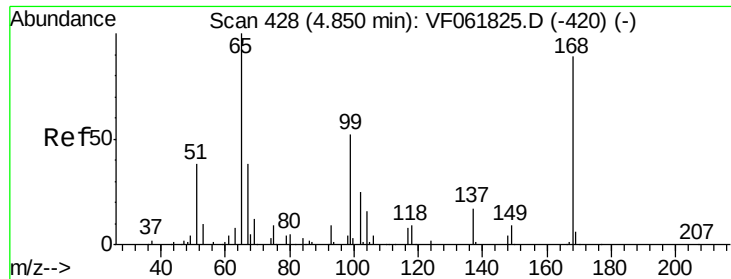
99 65.5 52.2 78.2

61 52.9 39.2 58.8



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0



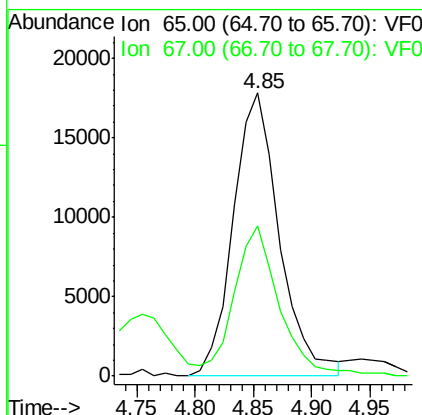
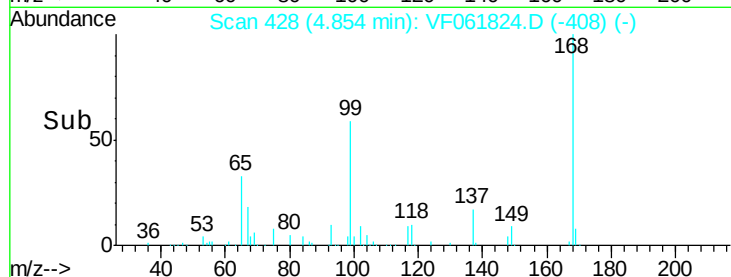
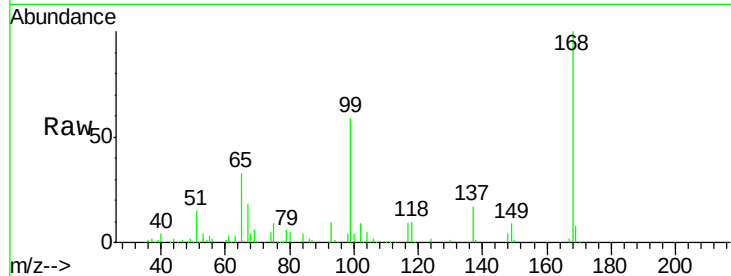


#33
 1,2-Dichloroethane-d4
 Concen: 20.530 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

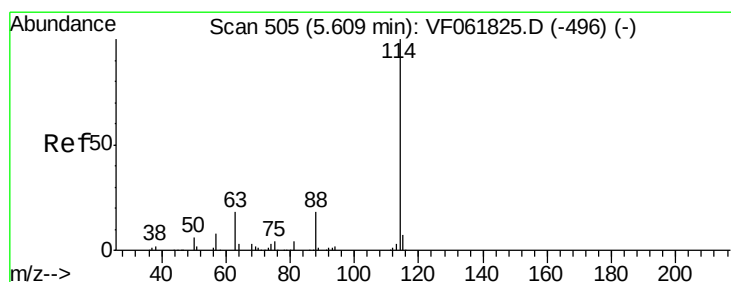
Tot Ion	Ratio	Resp	Lower	Upper
65	100	49062		
67	53.2	0.0	104.0	

Manual Integrations
 APPROVED



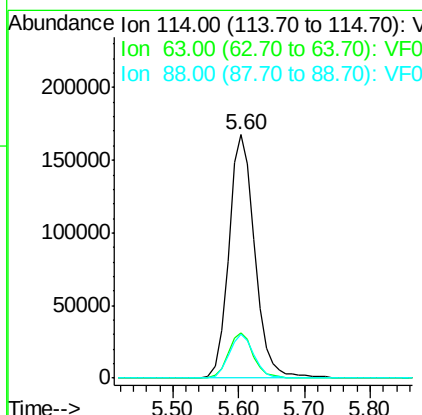
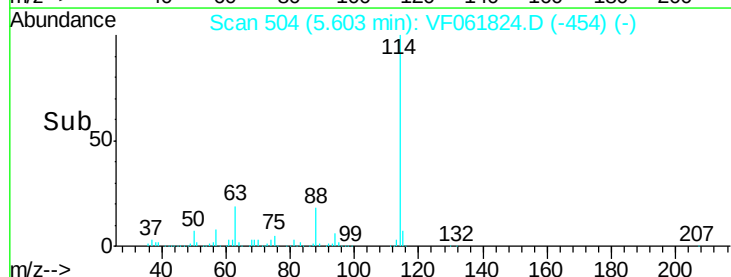
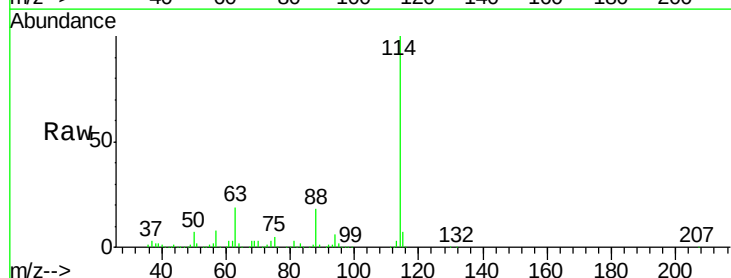
MMDadoda

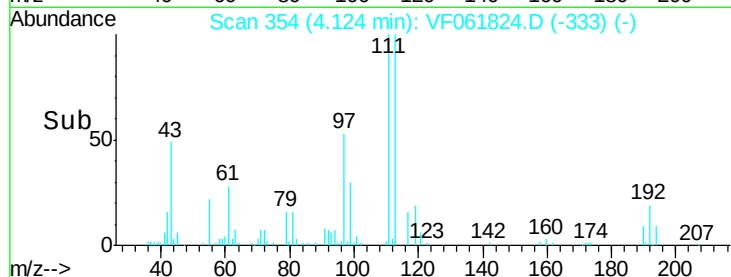
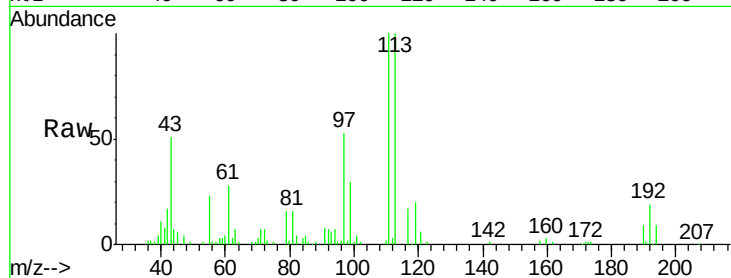
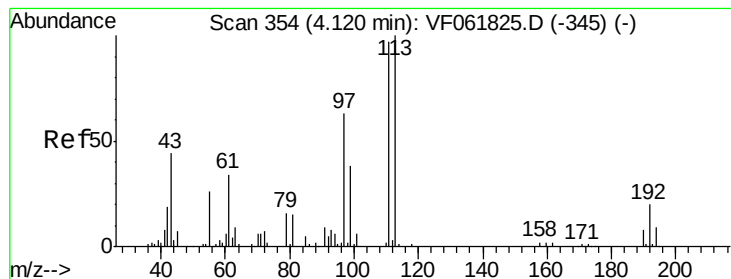
3/5/2019 10:47:20 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	462211		
63	18.6	0.0	36.6	
88	18.2	0.0	34.4	





#35

Dibromofluoromethane

Concen: 20.100 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

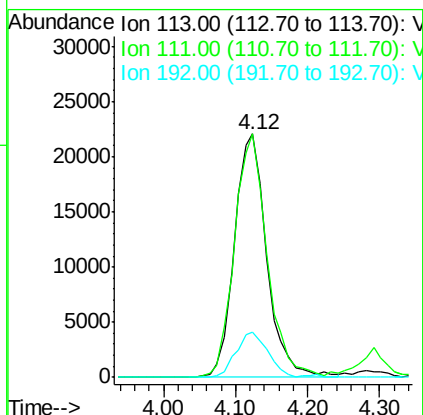
Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tot Ion:	113	Resp:	68993
Ion	Ratio	Lower	Upper
113	100		
111	100.1	78.8	118.2
192	18.9	13.4	20.0

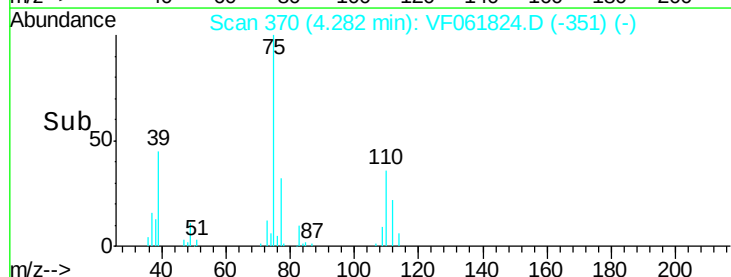
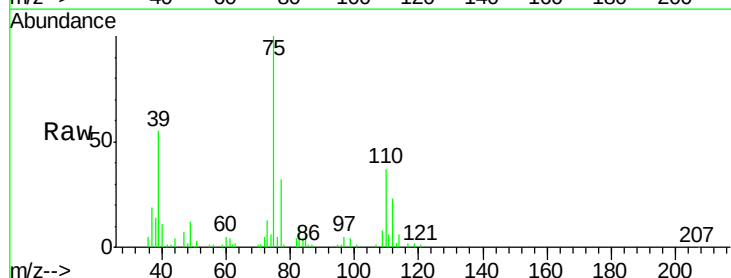
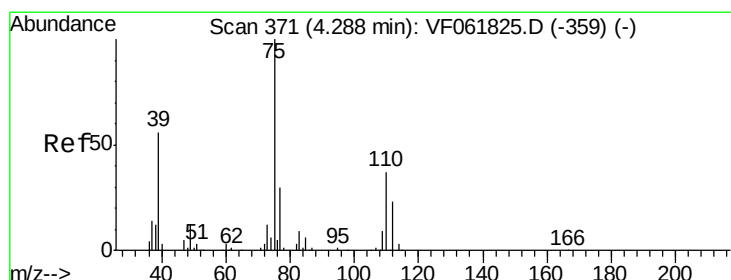
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 19.984 ug/l

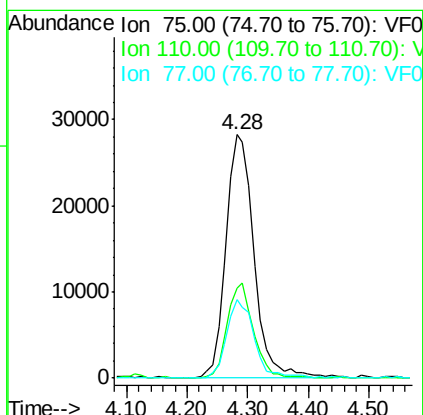
RT: 4.28 min Scan# 370

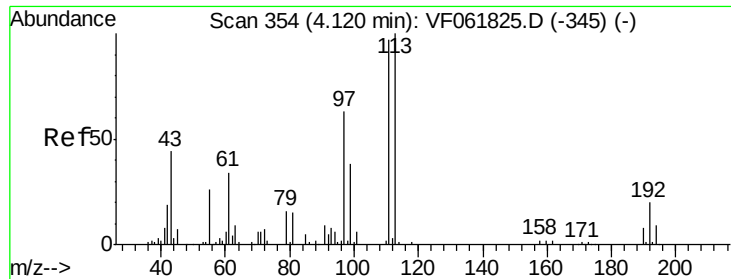
Delta R.T. -0.01 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion:	75	Resp:	91501
Ion	Ratio	Lower	Upper
75	100		
110	36.8	20.5	61.6
77	32.1	27.0	40.4



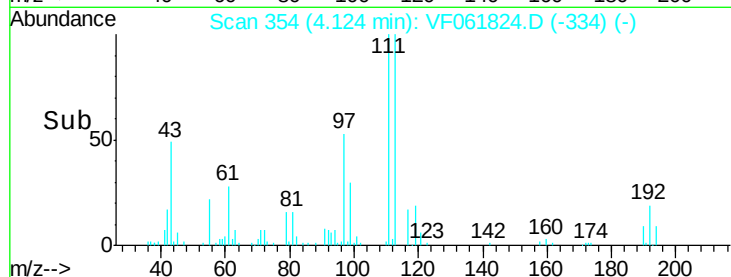
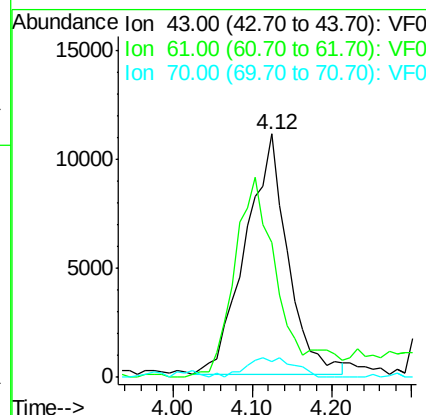
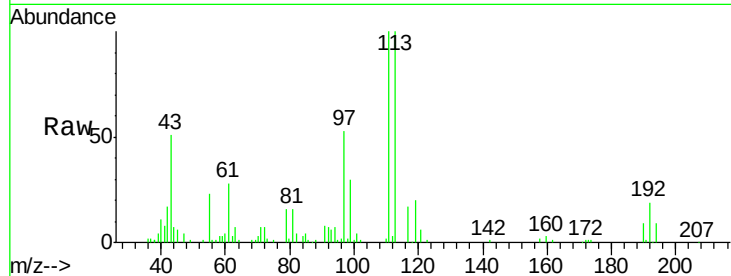


#37
Ethyl Acetate
Concen: 18.927 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

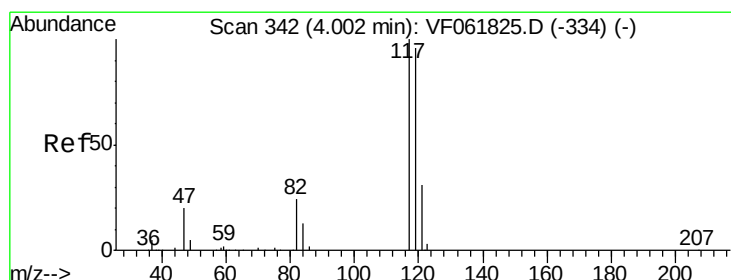
Tot Ion	Ratio	Lower	Upper
43	100		
61	55.2	45.7	68.5
70	6.6	8.5	12.7#

Manual Integrations
APPROVED



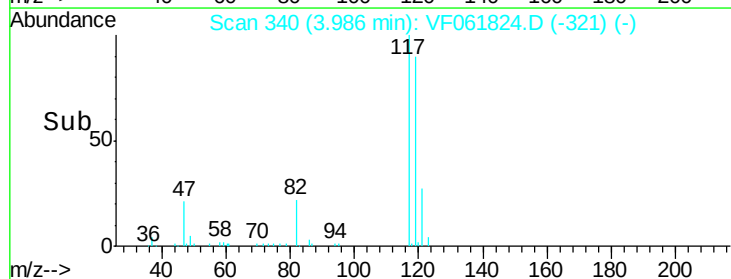
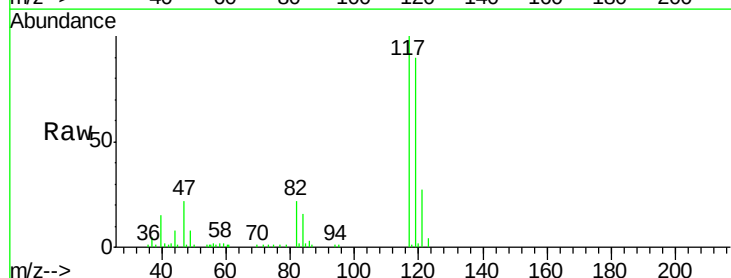
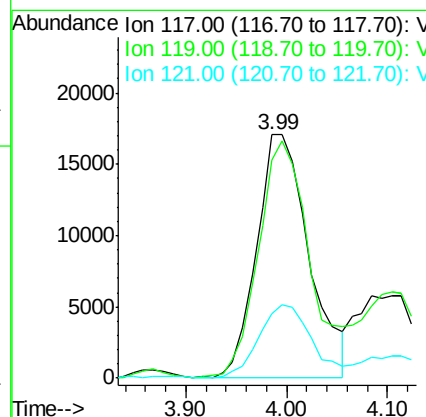
MMDadoda

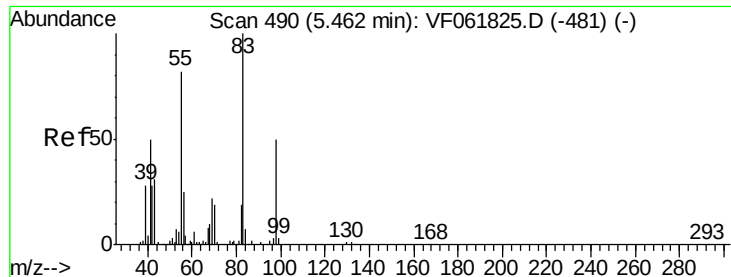
3/5/2019 10:47:20 AM



#38
Carbon Tetrachloride
Concen: 19.538 ug/l
RT: 3.99 min Scan# 340
Delta R.T. -0.01 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.7	75.6	113.4
121	26.5	25.2	37.8



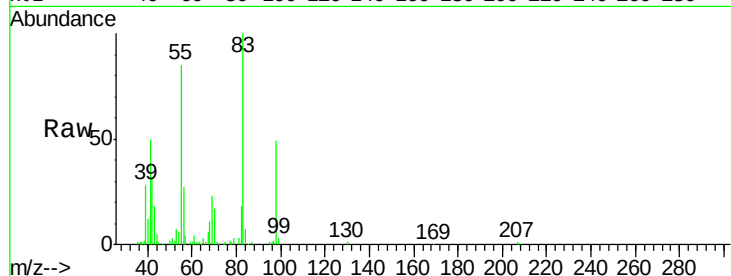


#39
Methylvlcyclohexane
Concen: 19.284 ug/l
RT: 5.46 min Scan# 489
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

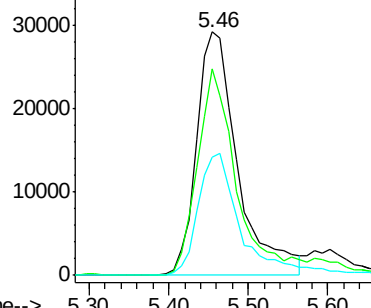
Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	84.9	66.6	99.8
98	48.5	40.4	60.6

Manual Integrations
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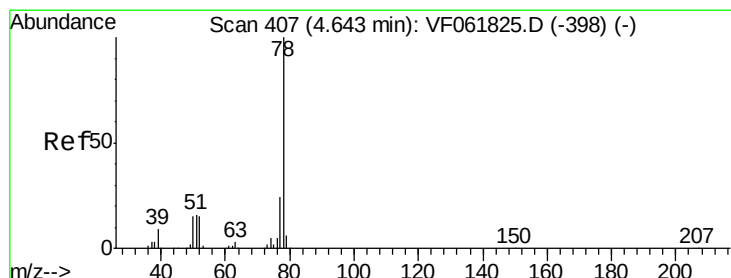
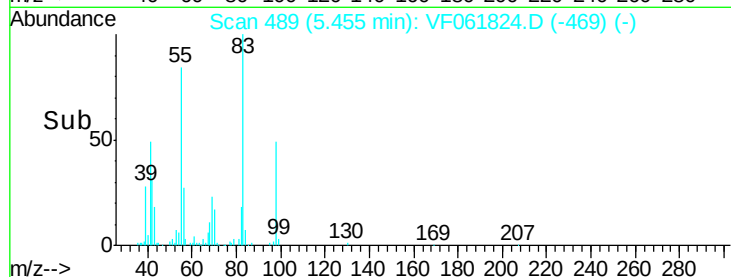


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



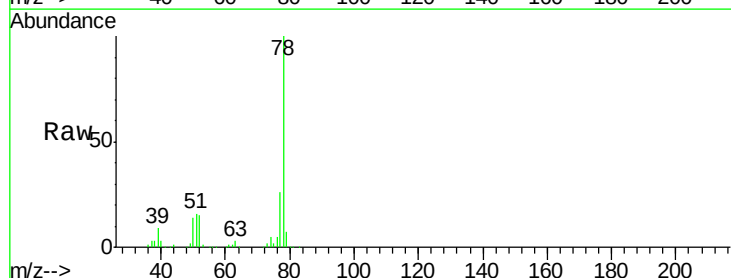
MMDadoda

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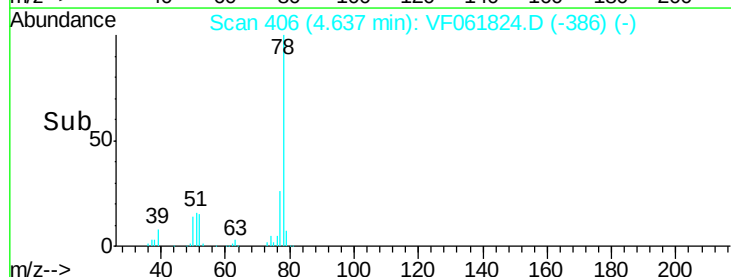
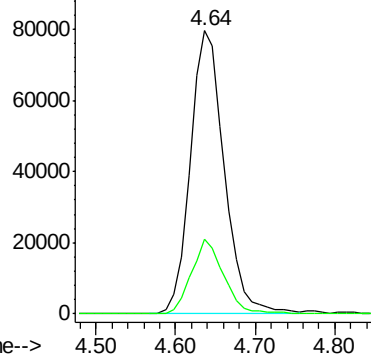


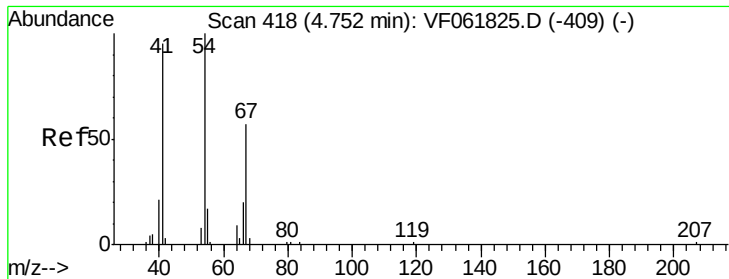
#40
Benzene
Concen: 19.701 ug/l
RT: 4.64 min Scan# 406
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.4	19.0	28.6



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0



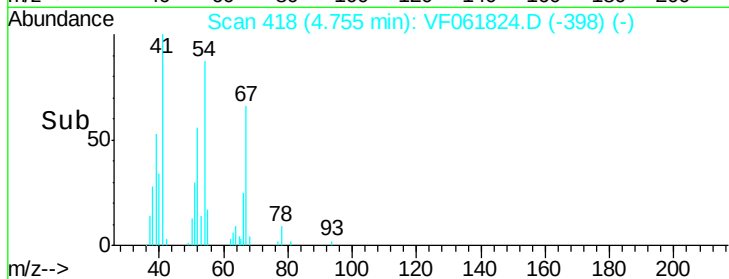
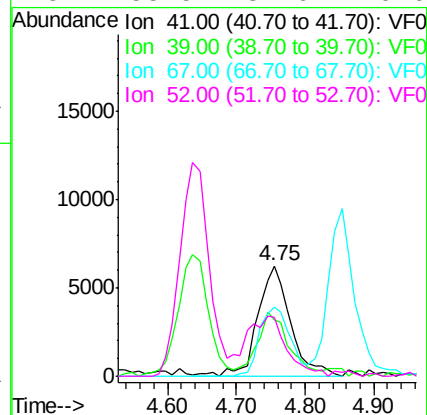
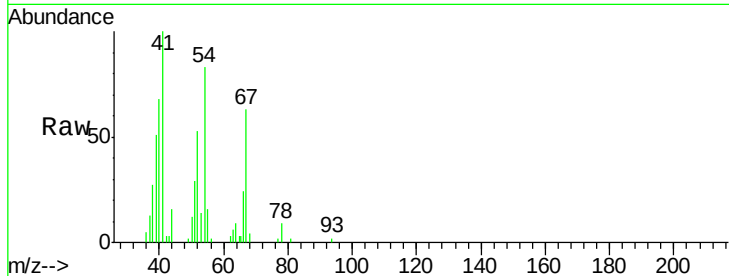


#41
Methacrylonitrile
Concen: 19.154 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

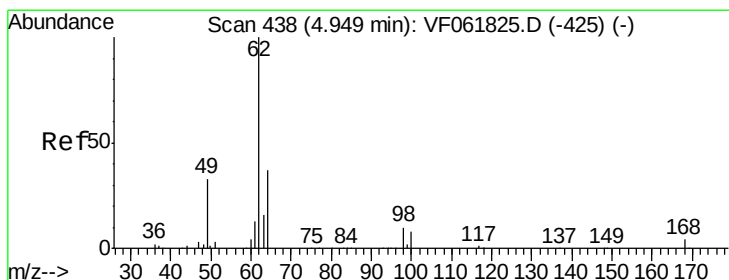
Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	50.7	45.3	67.9	
67	62.8	49.3	73.9	
52	53.5	32.6	49.0	

Manual Integrations
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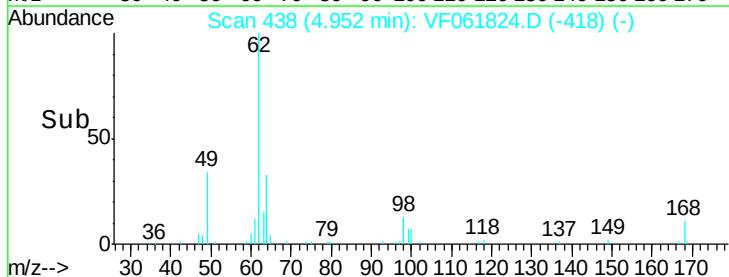
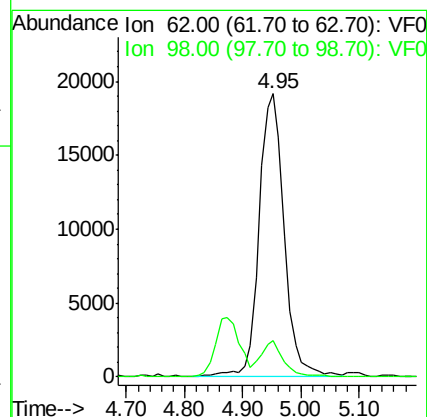
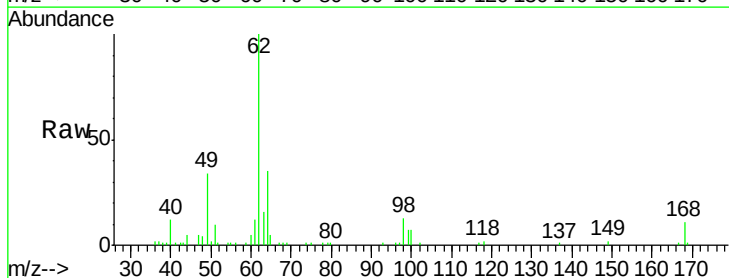
MMDadoda

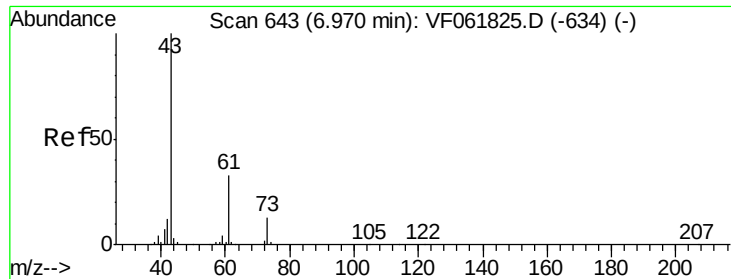
3/5/2019 10:47:20 AM



#42
1,2-Dichloroethane
Concen: 20.383 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	12.7	0.0	26.0	





#43

Isopropyl Acetate

Concen: 17.330 ug/l

RT: 6.96 min Scan# 642

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

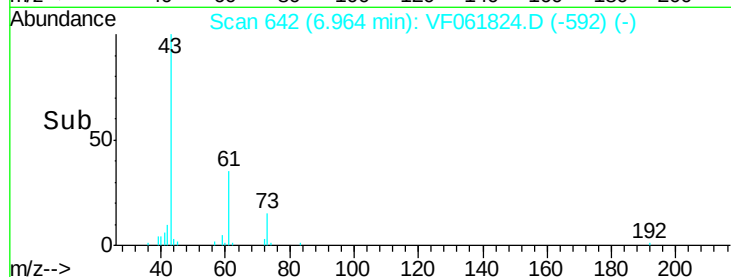
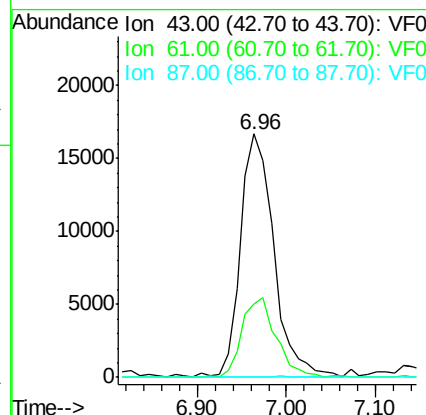
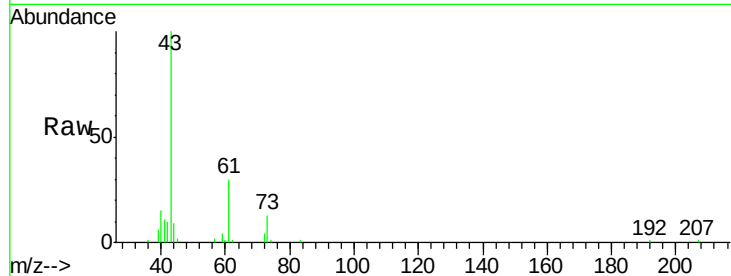
MSVOA_F

ClientSampleId :

VSTDIC020

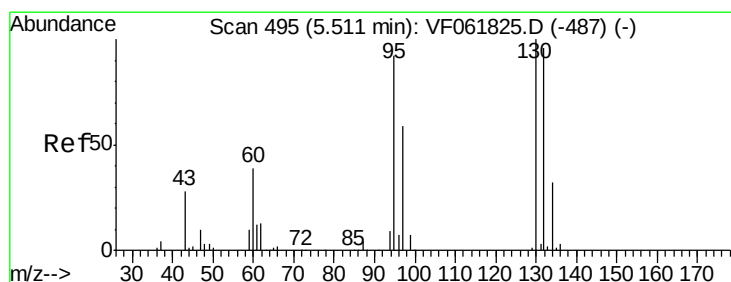
Tot Ion:	43	Resp:	43625
Ion	Ratio	Lower	Upper
43	100		
61	30.0	25.8	38.6
87	0.0	0.4	0.6

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#44

Trichloroethene

Concen: 18.199 ug/l

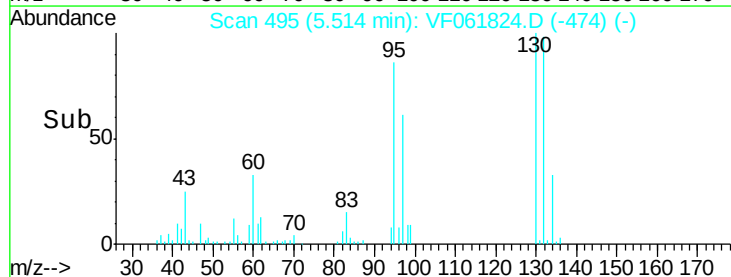
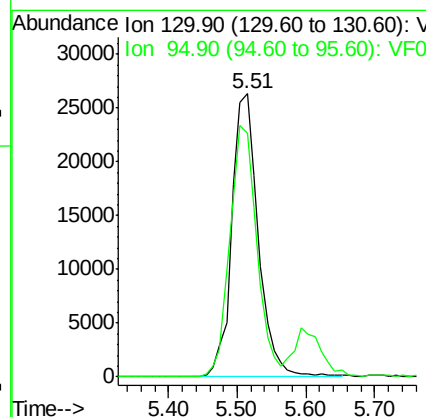
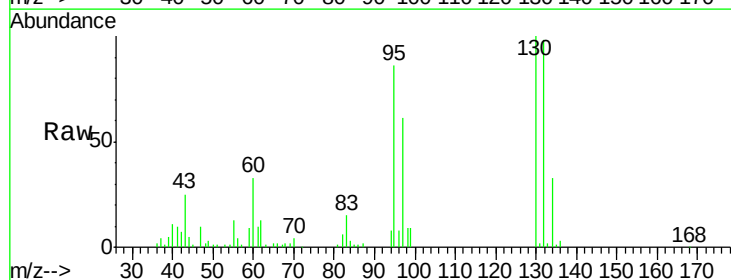
RT: 5.51 min Scan# 495

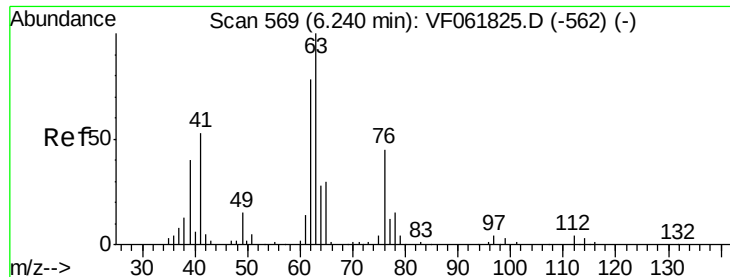
Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion:	130	Resp:	70485
Ion	Ratio	Lower	Upper
130	100		
95	85.9	0.0	179.4



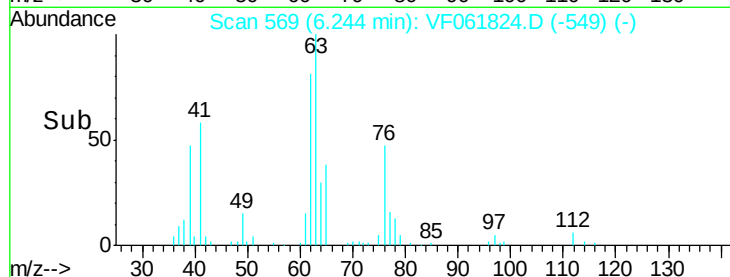
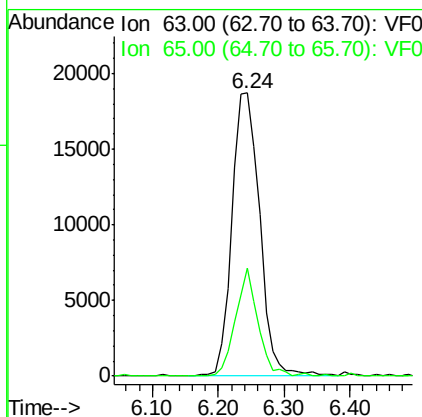
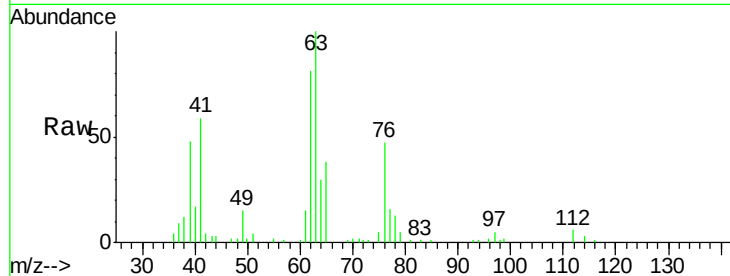


#45
1,2-Dichloropropane
Concen: 19.243 ug/l
RT: 6.24 min Scan# 569
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

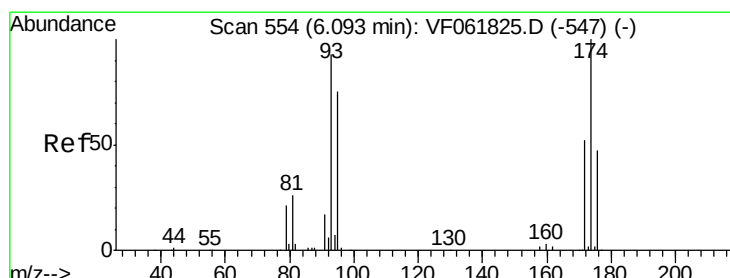
Tot Ion: 63 Resp: 55708
Ion Ratio Lower Upper
63 100
65 38.2 24.9 37.3#

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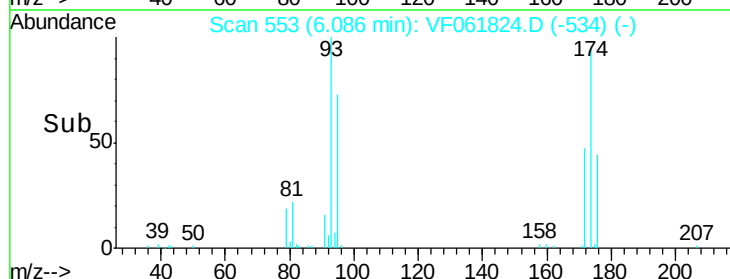
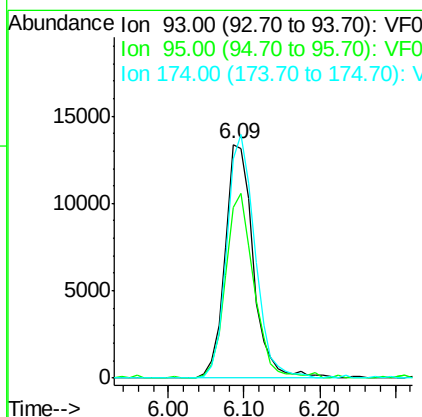
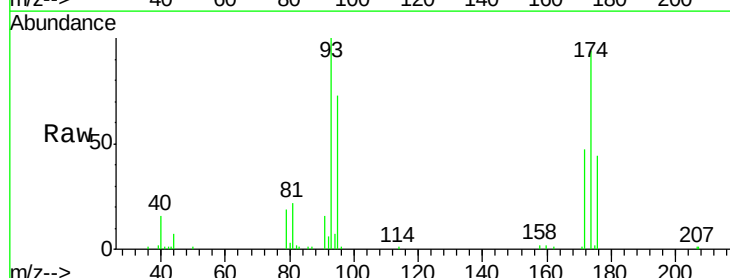
MMDadoda

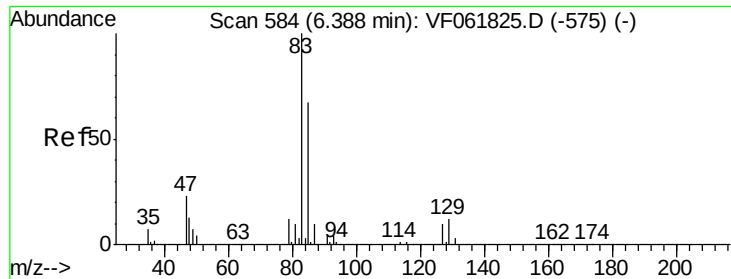
3/5/2019 10:47:20 AM



#46
Dibromomethane
Concen: 19.329 ug/l
RT: 6.09 min Scan# 553
Delta R.T. -0.01 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion: 93 Resp: 34452
Ion Ratio Lower Upper
93 100
95 73.2 69.0 103.6
174 94.1 99.3 148.9#





#47

Bromodichloromethane

Concen: 19.621 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

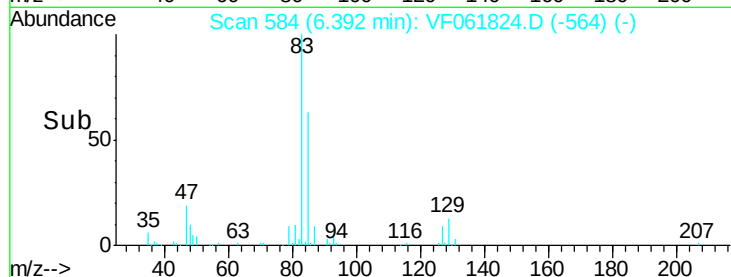
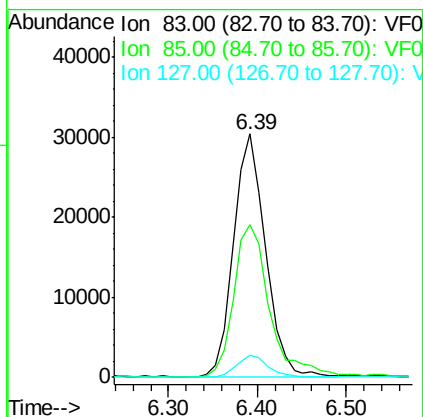
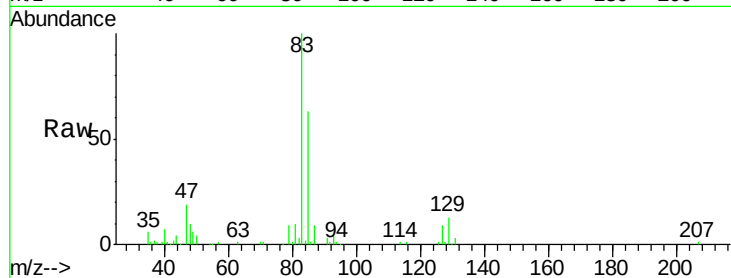
MSVOA_F

ClientSampleId :

VSTDIC020

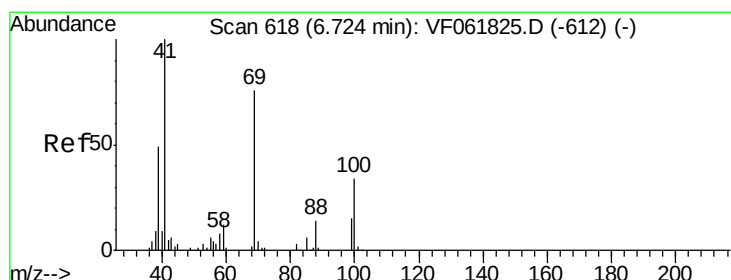
Tot Ion:	83	Resp:	76585
Ion	Ratio	Lower	Upper
83	100		
85	62.5	53.4	80.2
127	9.2	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.297 ug/l

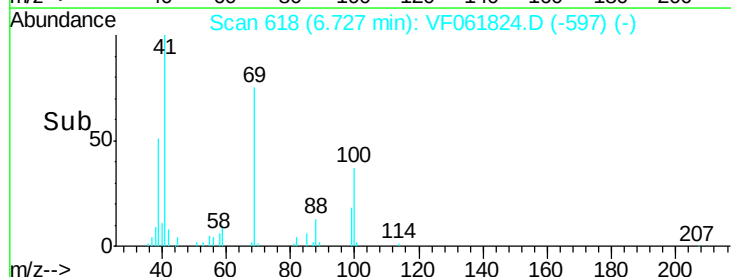
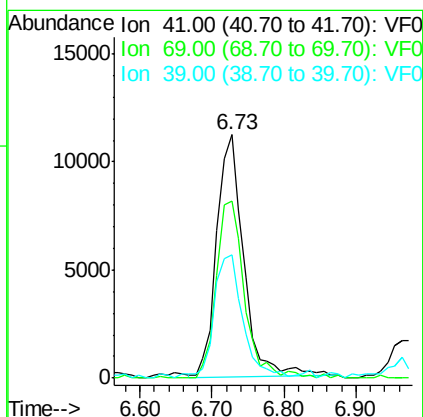
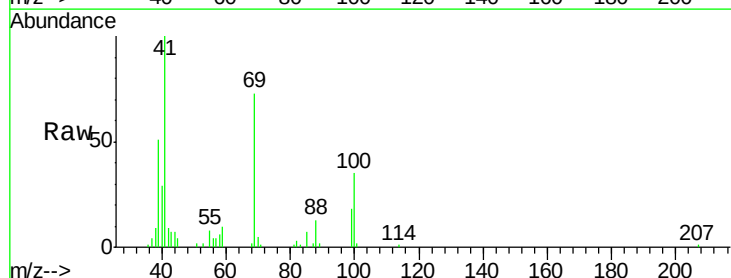
RT: 6.73 min Scan# 618

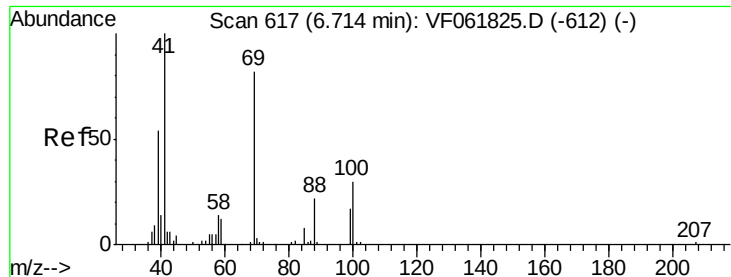
Delta R.T. 0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion:	41	Resp:	29234
Ion	Ratio	Lower	Upper
41	100		
69	72.6	60.4	90.6
39	50.7	43.7	65.5



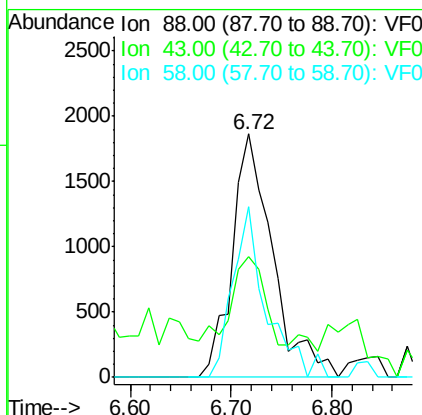
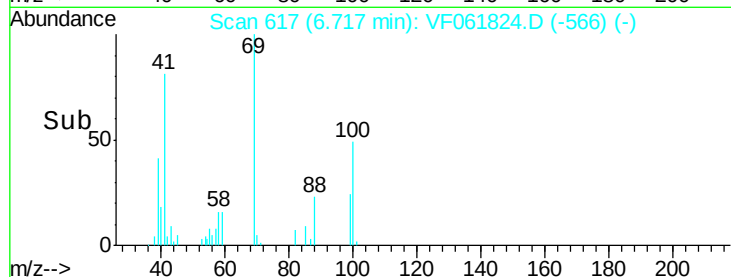
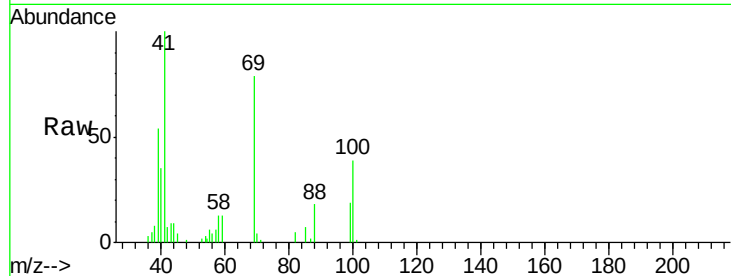


#49
1,4-Dioxane
Concen: 365.842 ug/l
RT: 6.72 min Scan# 617
Delta R.T. 0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

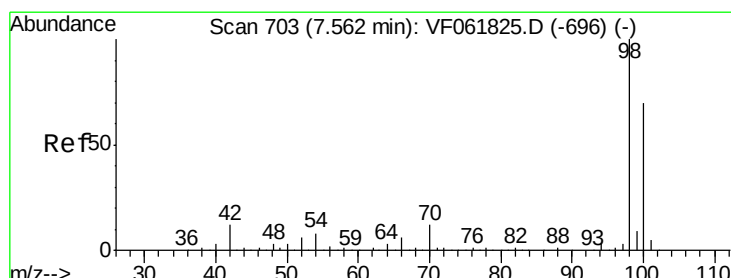
Tot Ion	Ratio	Lower	Upper
88	100		
43	49.5	32.3	48.5#
58	69.8	59.4	89.2

Manual Integrations
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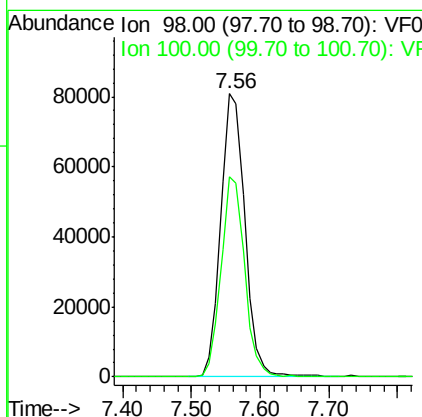
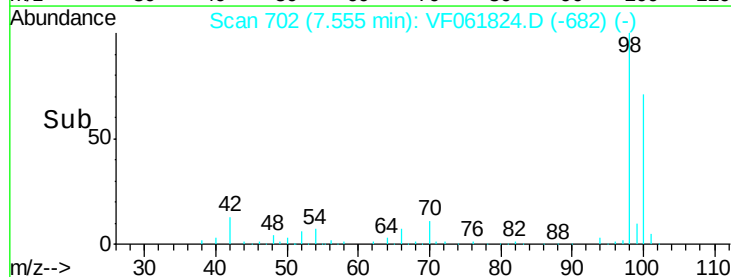
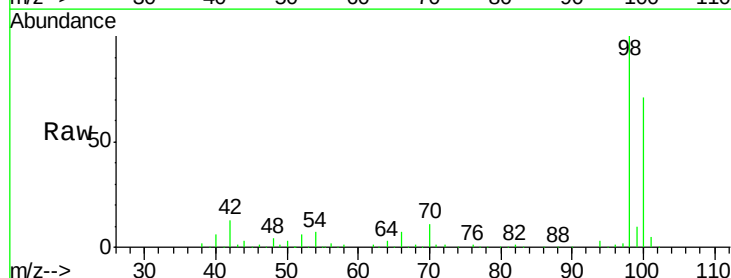
MMDadoda

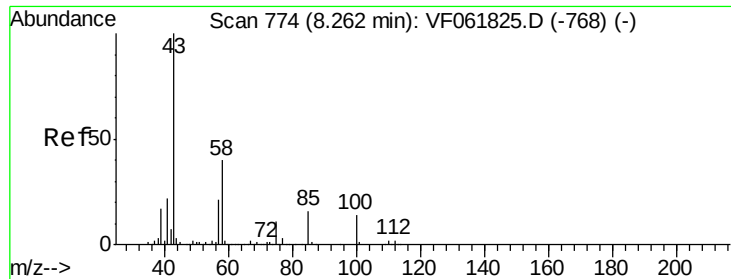
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#50
Toluene-d8
Concen: 20.015 ug/l
RT: 7.56 min Scan# 702
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.7	55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 90.527 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

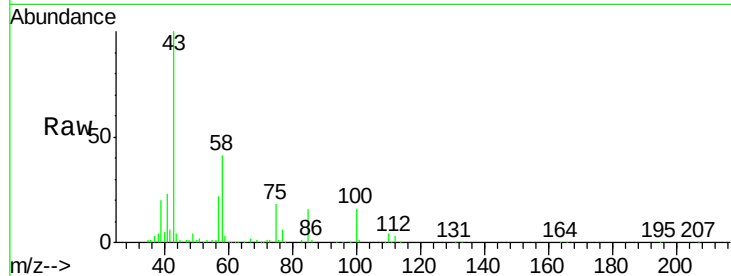
Tot Ion: 43 Resp: 162835

Ion Ratio Lower Upper

43 100

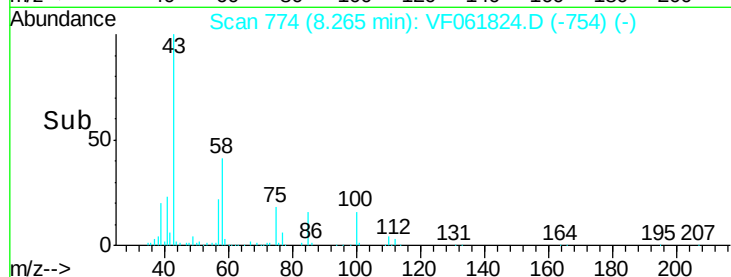
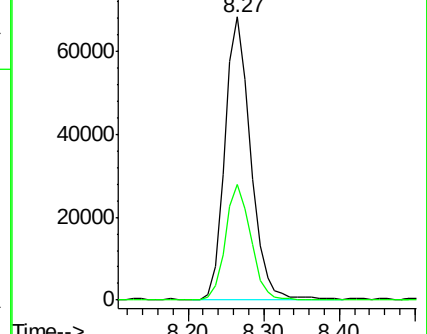
58 40.7 33.1 49.7

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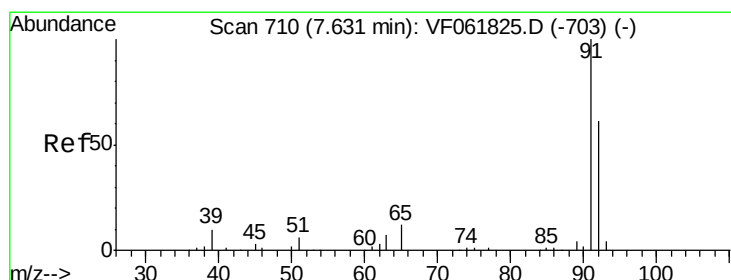
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



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#52

Toluene

Concen: 19.063 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061824.D

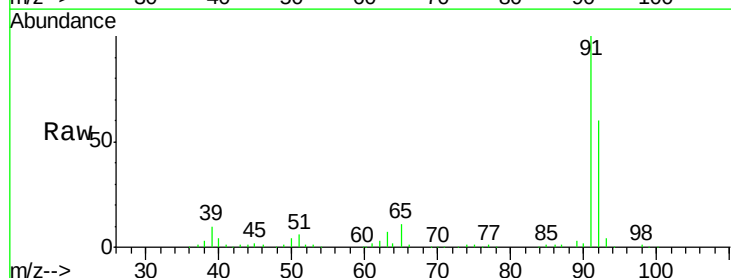
Acq: 4 Mar 2019 17:02

Tgt Ion: 92 Resp: 138464

Ion Ratio Lower Upper

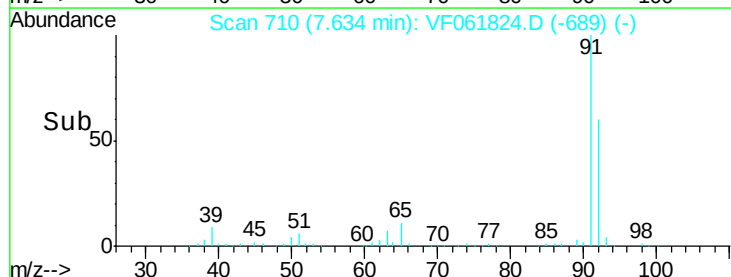
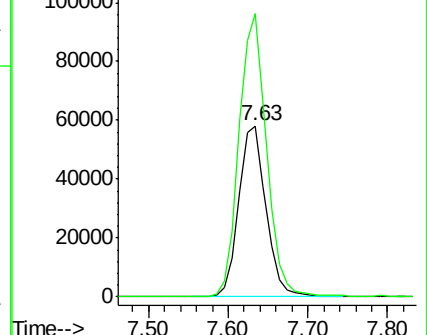
92 100

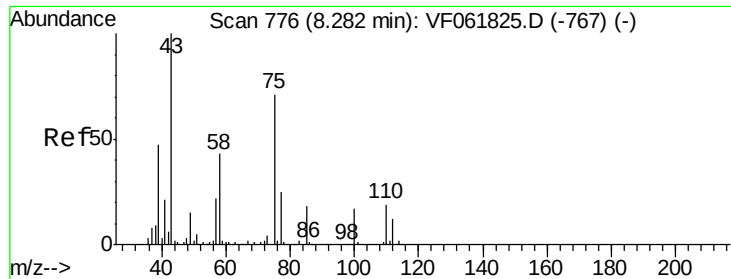
91 165.6 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 19.461 ug/l

RT: 8.29 min Scan# 776

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 63220

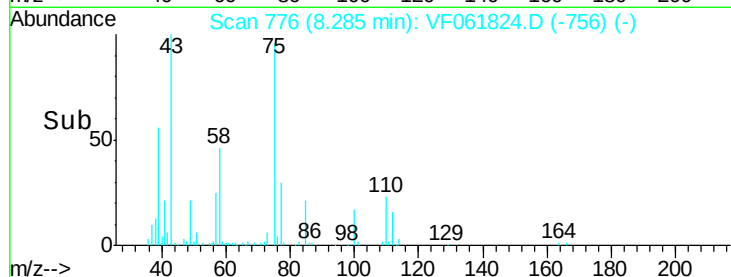
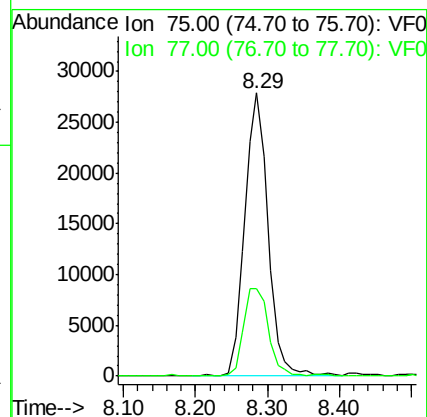
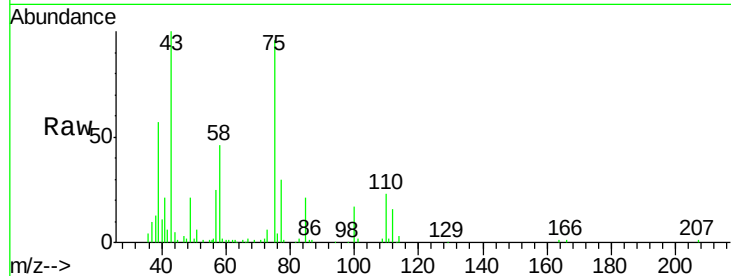
Ion Ratio Lower Upper

75 100

77 31.0 26.2 39.2

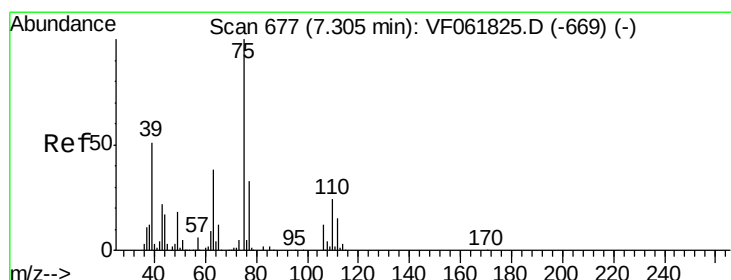
Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 20.145 ug/l

RT: 7.31 min Scan# 677

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

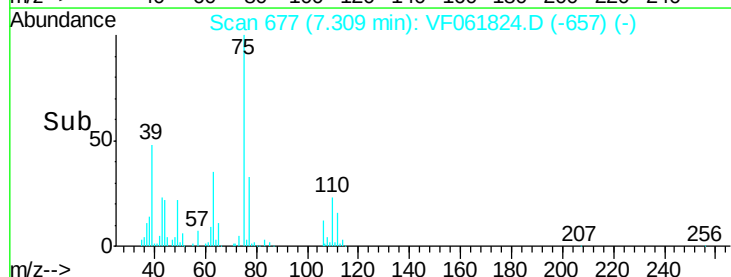
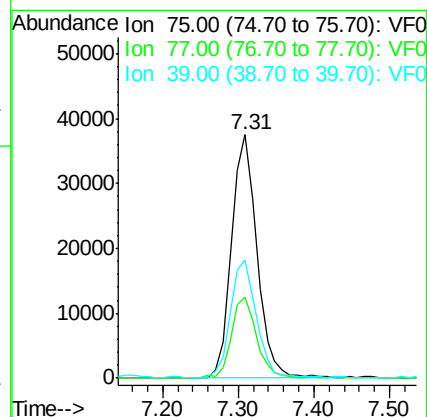
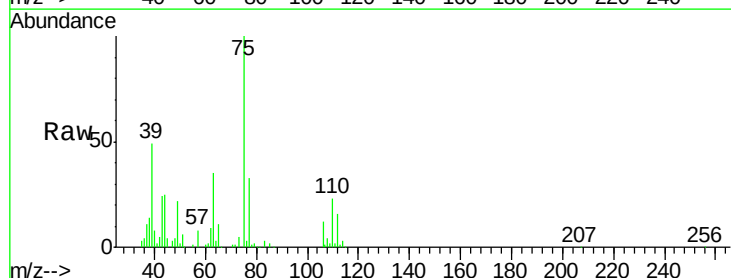
Tgt Ion: 75 Resp: 87169

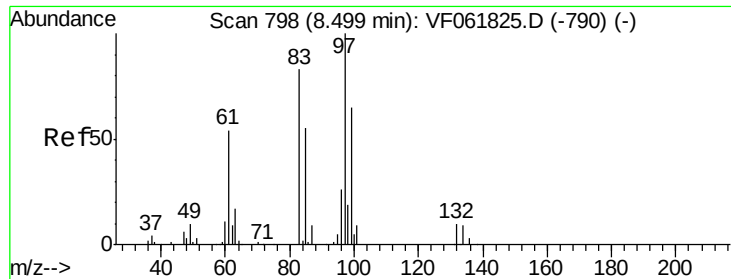
Ion Ratio Lower Upper

75 100

77 33.3 26.4 39.6

39 48.7 36.0 54.0



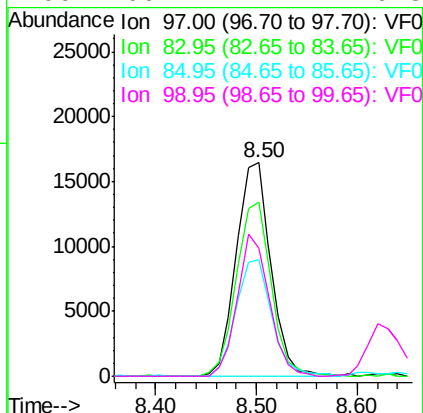
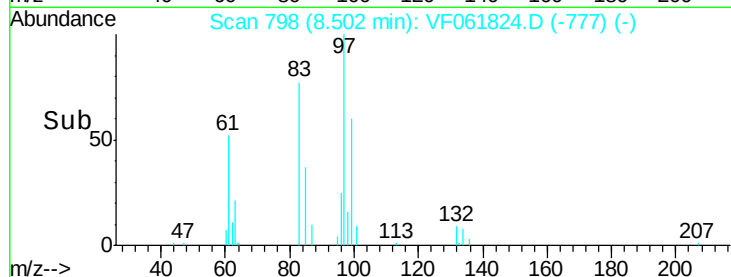
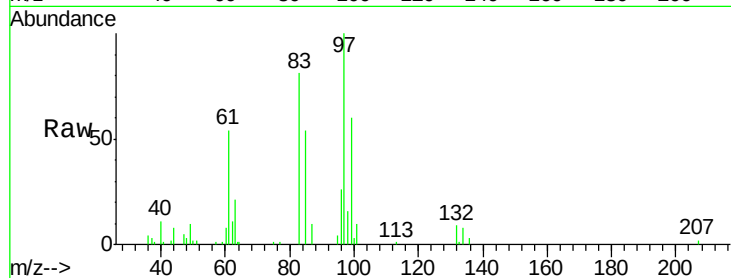


#55
 1,1,2-Trichloroethane
 Concen: 18.458 ug/l
 RT: 8.50 min Scan# 798
 Delta R.T. 0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

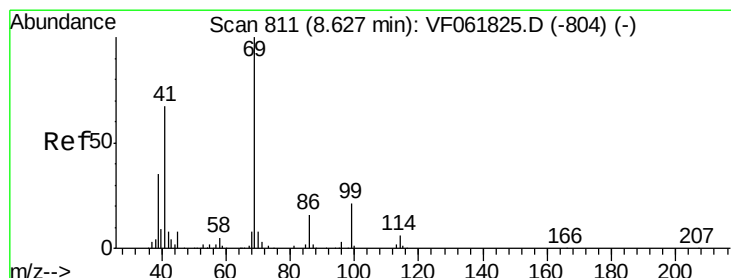
Tot Ion:	97	Resp:	39392
Ion	Ratio	Lower	Upper
97	100		
83	81.4	69.2	103.8
85	54.4	43.0	64.4
99	60.1	47.2	70.8

Manual Integrations
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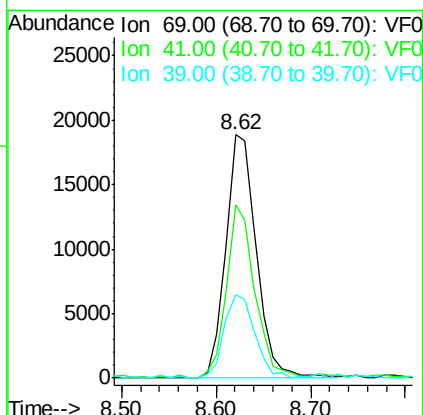
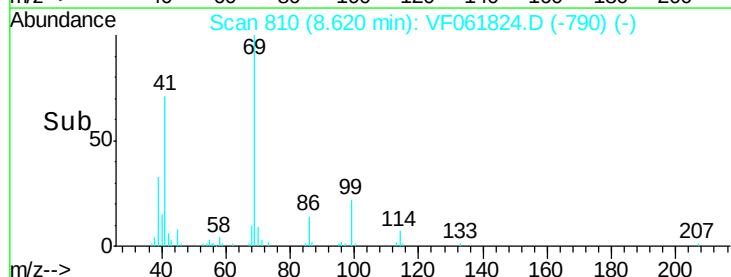
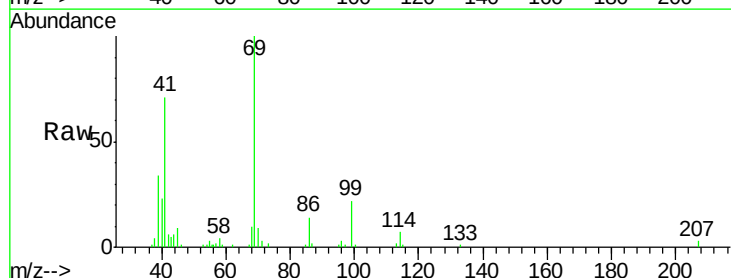
MMDadoda

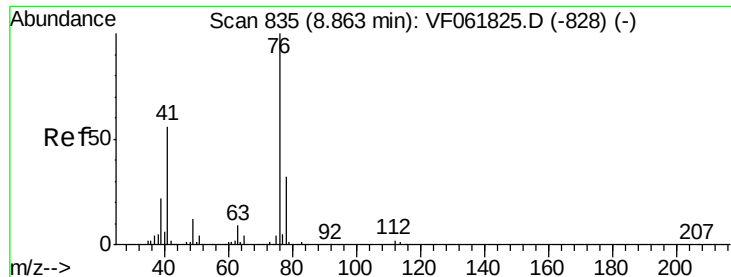
3/5/2019 10:47:20 AM



#56
 Ethyl methacrylate
 Concen: 17.749 ug/l
 RT: 8.62 min Scan# 810
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion:	69	Resp:	42171
Ion	Ratio	Lower	Upper
69	100		
41	71.3	52.9	79.3
39	34.3	24.5	36.7





#57

1,3-Dichloropropane

Concen: 18.012 ug/l

RT: 8.86 min Scan# 834

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

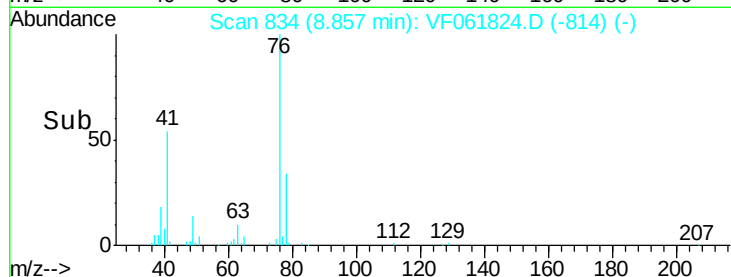
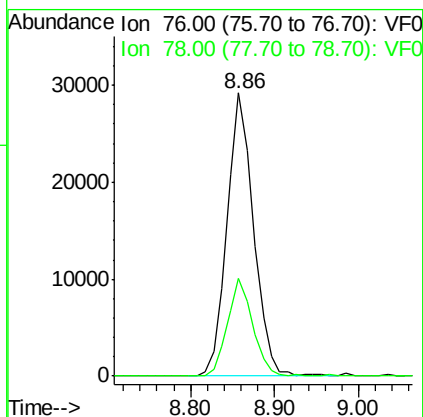
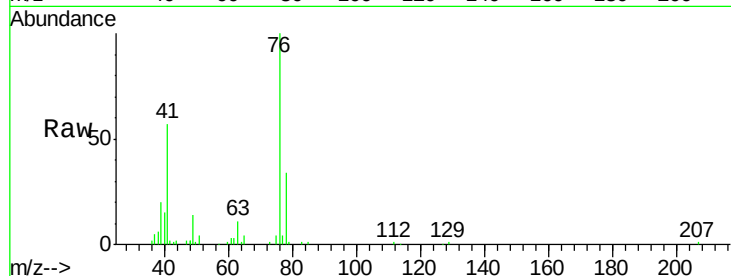
Tot Ion: 76 Resp: 64160

Ion Ratio Lower Upper

76 100

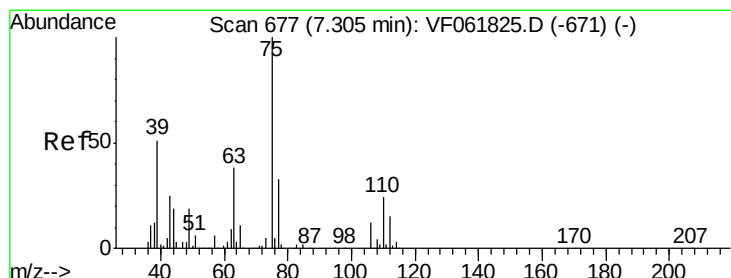
78 34.4 27.8 41.6

Manual Integrations
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#58

2-Chloroethyl Vinyl ether

Concen: 86.274 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.00 min

Lab File: VF061824.D

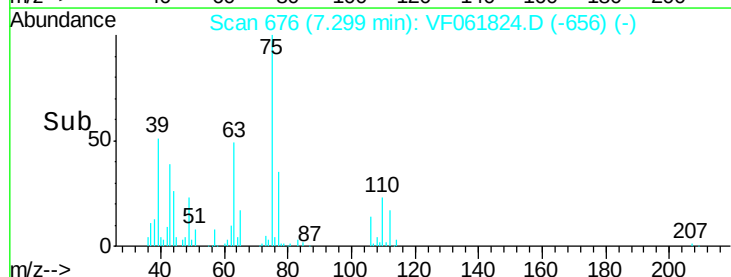
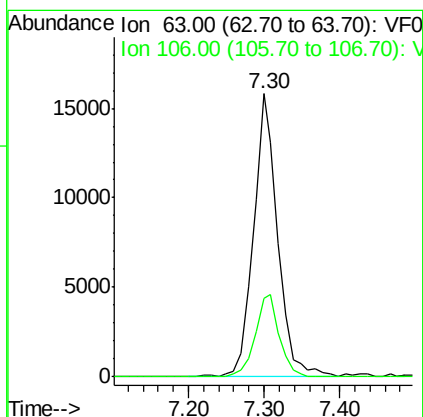
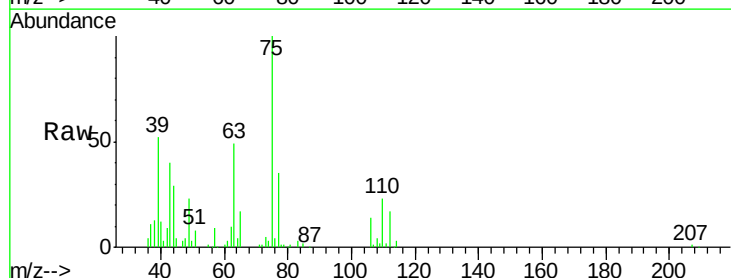
Acq: 4 Mar 2019 17:02

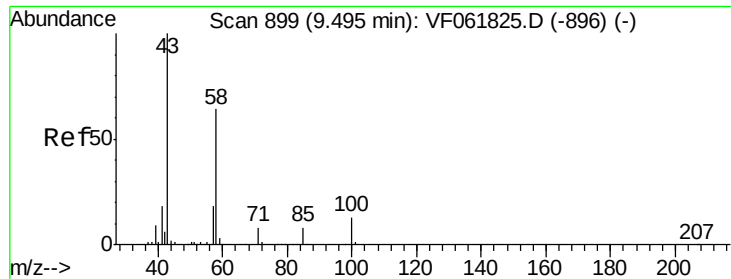
Tgt Ion: 63 Resp: 35368

Ion Ratio Lower Upper

63 100

106 27.9 24.6 36.8



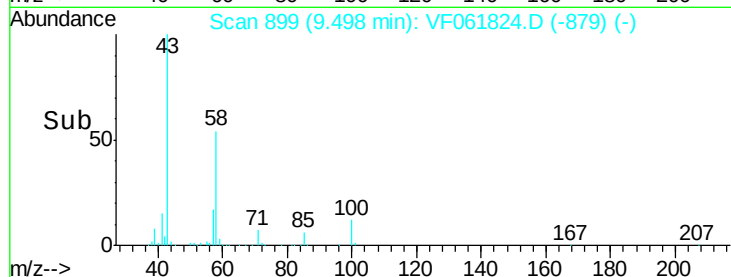
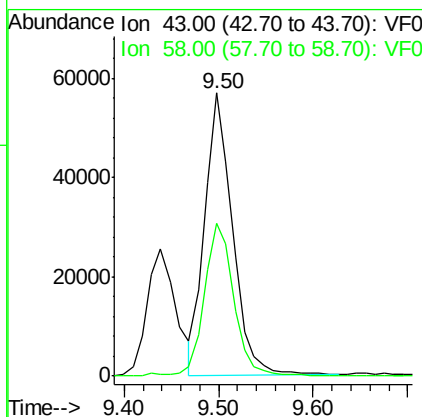
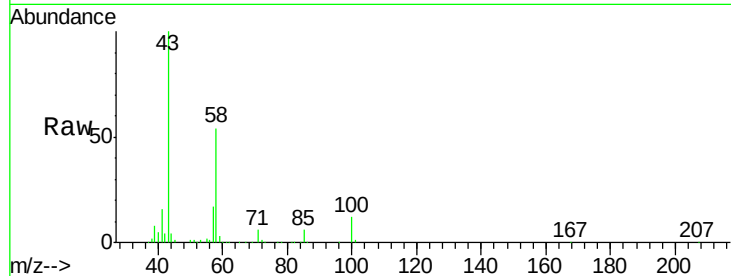


#59
2-Hexanone
Concen: 92.165 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

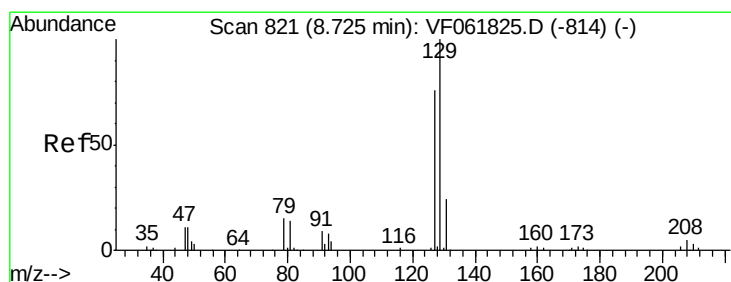
Tot Ion: 43 Resp: 116208
Ion Ratio Lower Upper
43 100
58 54.0 28.5 85.5

Manual Integrations
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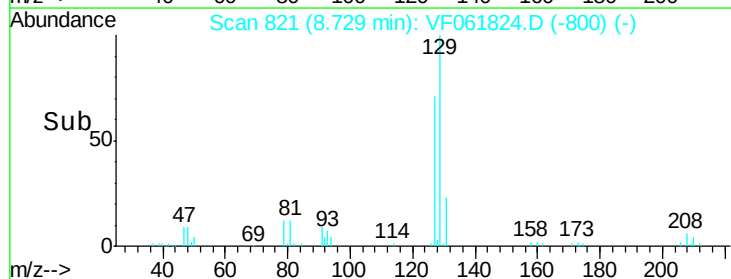
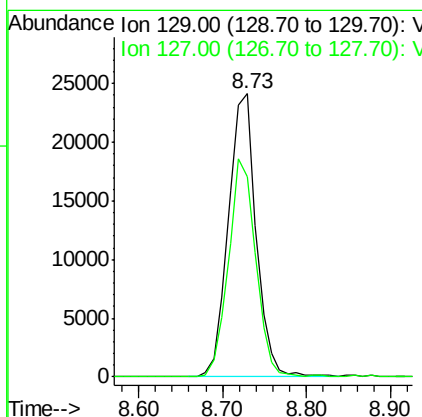
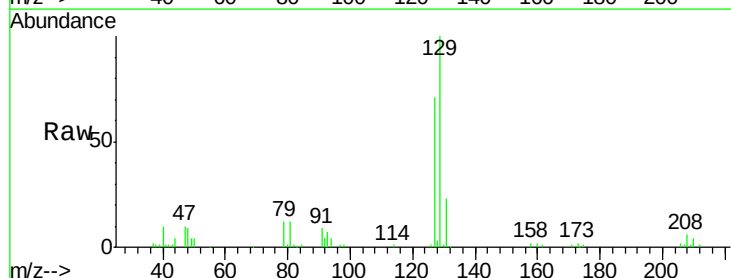
MMDadoda

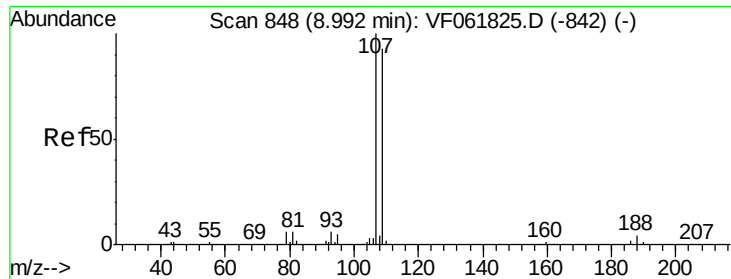
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#60
Dibromochloromethane
Concen: 18.701 ug/l
RT: 8.73 min Scan# 821
Delta R.T. 0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion: 129 Resp: 55548
Ion Ratio Lower Upper
129 100
127 70.8 37.8 113.4





#61

1,2-Dibromoethane

Concen: 17.950 ug/l

RT: 9.00 min Scan# 848

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

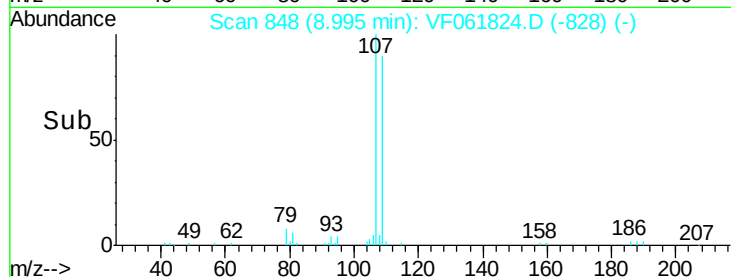
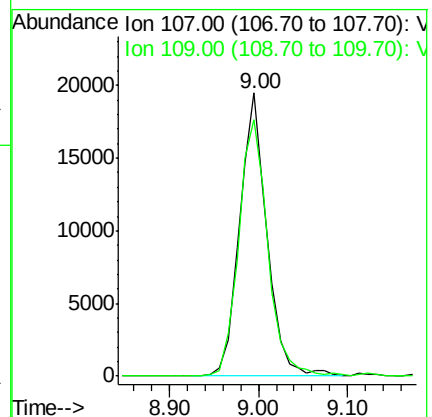
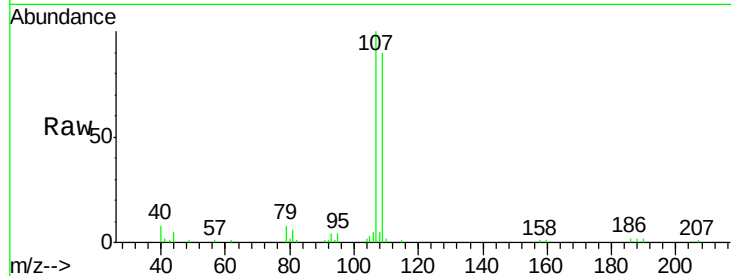
Tot Ion:107 Resp: 41550

Ion Ratio Lower Upper

107 100

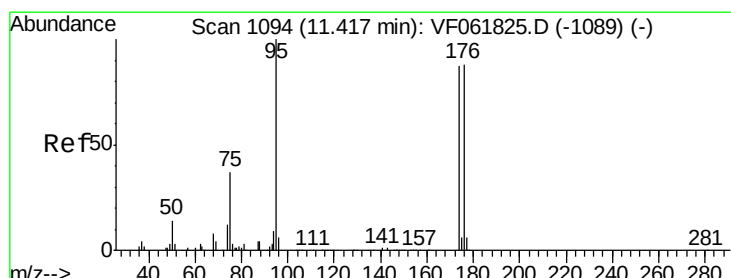
109 90.4 77.4 116.0

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#62

4-Bromofluorobenzene

Concen: 19.364 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

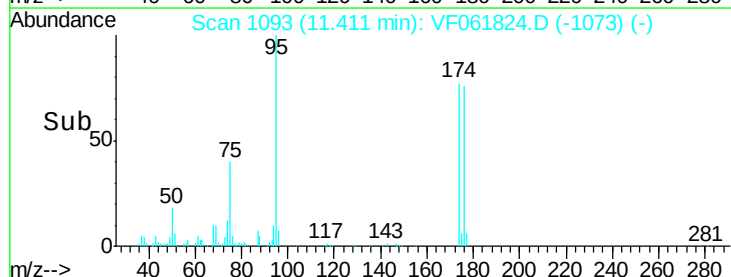
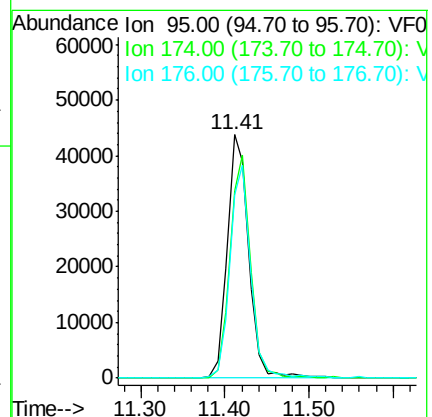
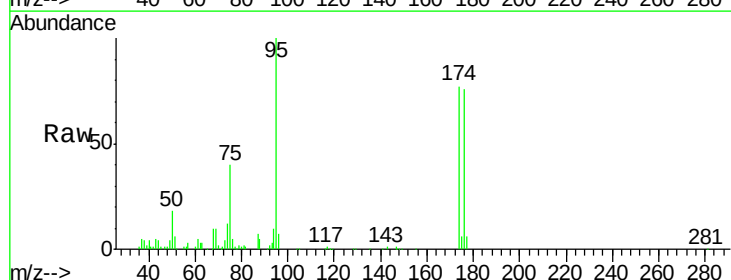
Tgt Ion: 95 Resp: 77311

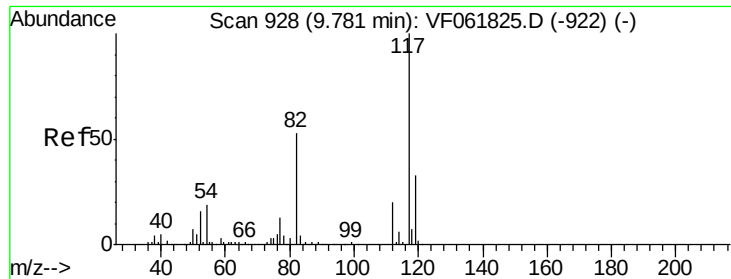
Ion Ratio Lower Upper

95 100

174 77.1 0.0 165.8

176 75.5 0.0 167.0



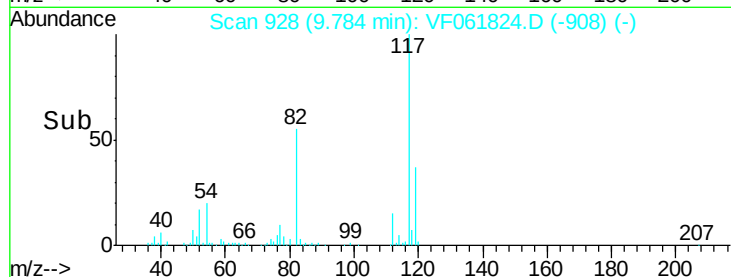
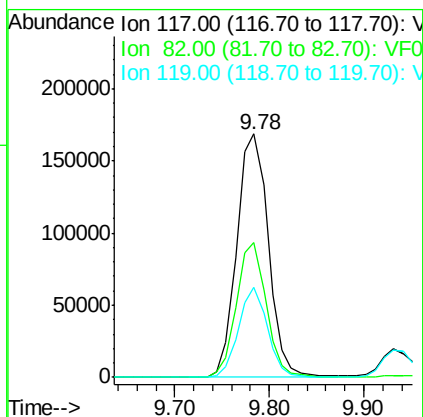
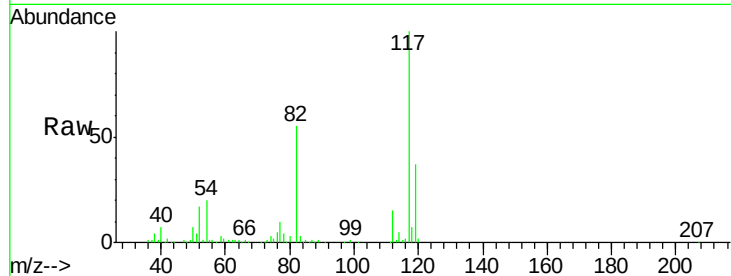


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

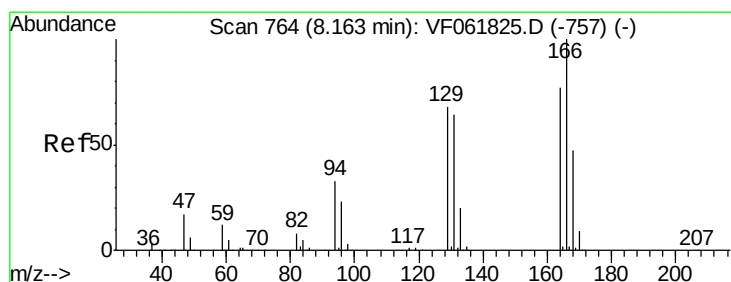
Tot Ion	Ratio	Resp	Lower	Upper
117	100	391895		
82	55.2	39.3	58.9	
119	36.9	26.6	40.0	

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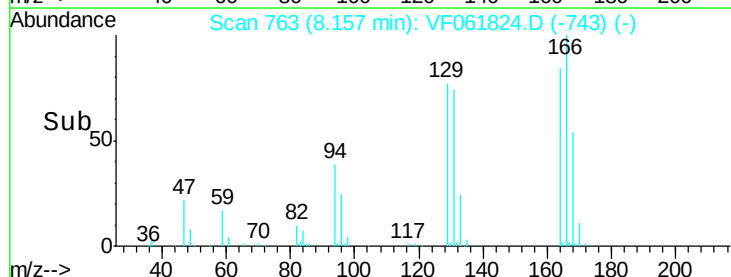
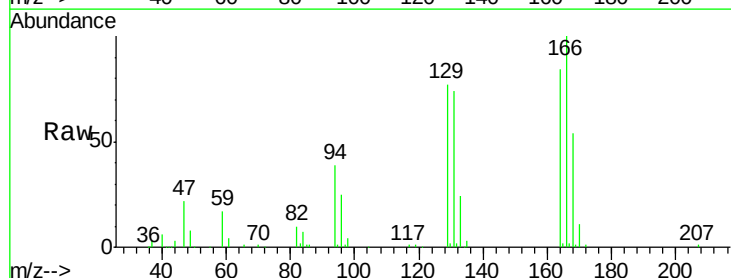
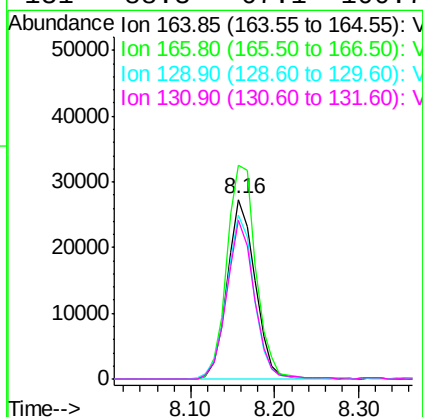
MMDadoda

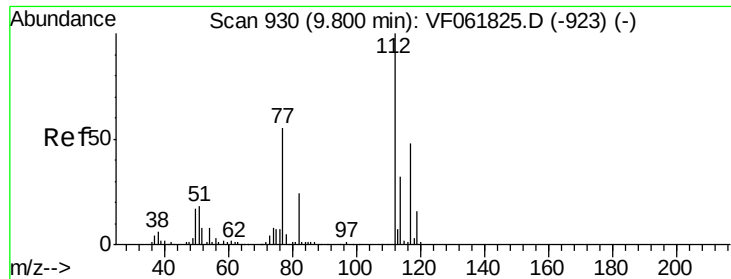
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#64
Tetrachloroethene
Concen: 19.657 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	62966		
166	119.0	103.9	155.9	
129	91.6	71.3	106.9	
131	88.3	67.1	100.7	



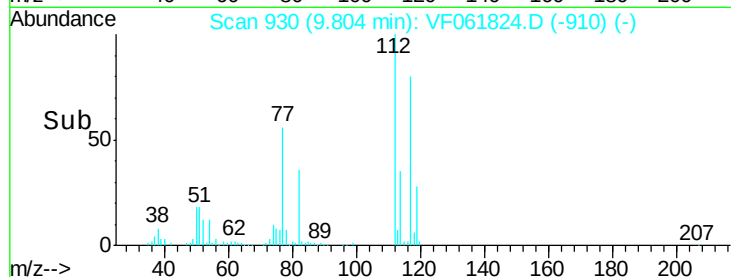
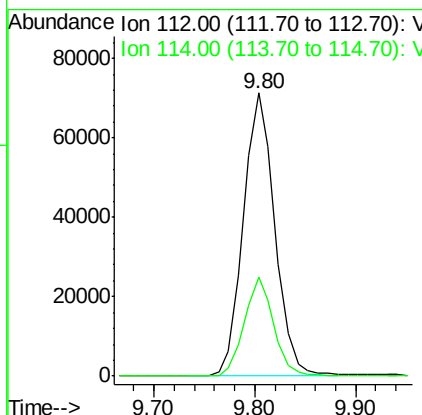
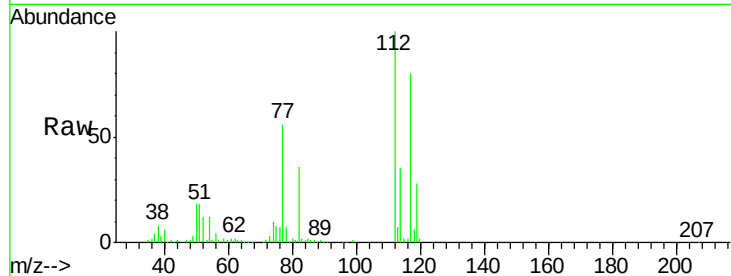


#65
Chlorobenzene
Concen: 19.542 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

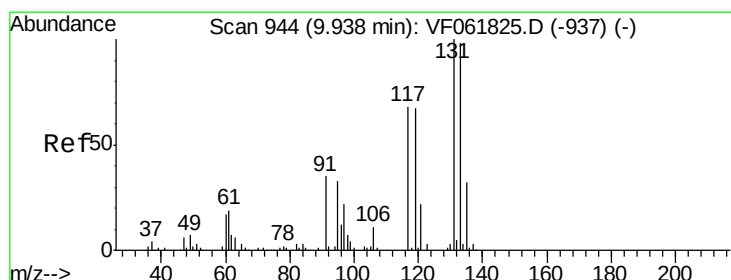
Tot Ion:112 Resp: 155404
Ion Ratio Lower Upper
112 100
114 35.0 26.2 39.2

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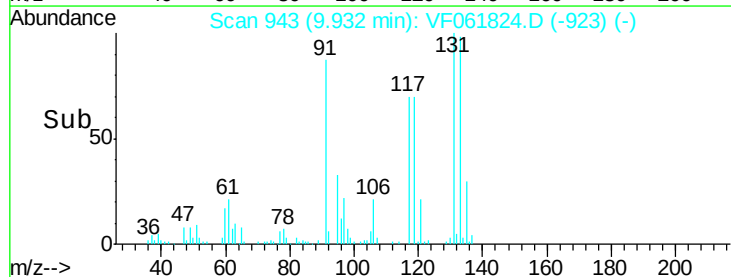
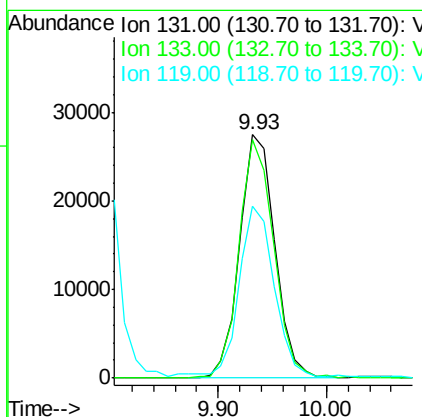
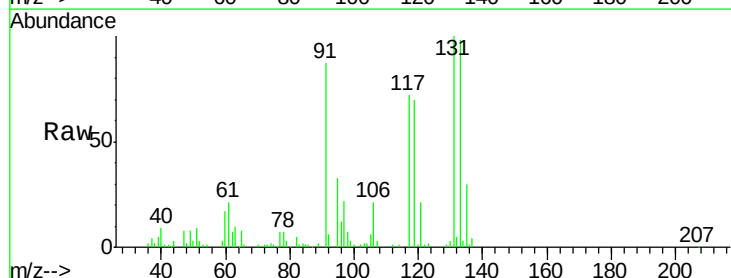
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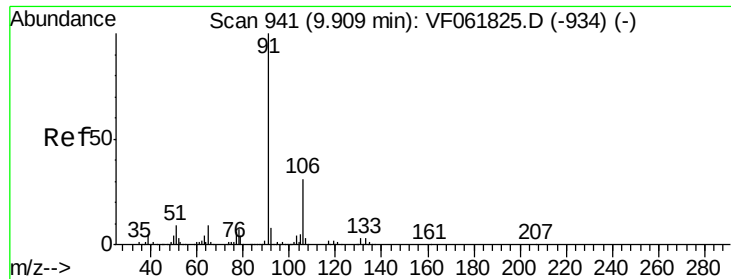
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.074 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion:131 Resp: 62553
Ion Ratio Lower Upper
131 100
133 98.0 48.9 146.6
119 70.4 34.8 104.3





#67

Ethyl Benzene

Concen: 19.867 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

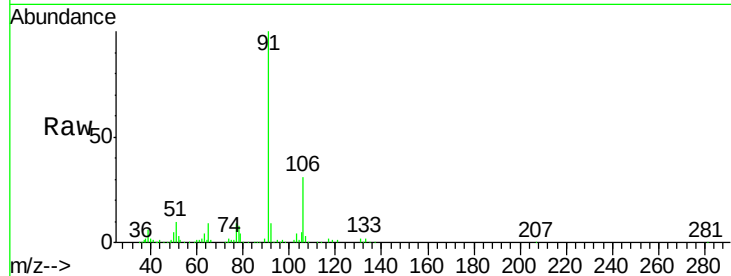
Tot Ion: 91 Resp: 262739

Ion Ratio Lower Upper

91 100

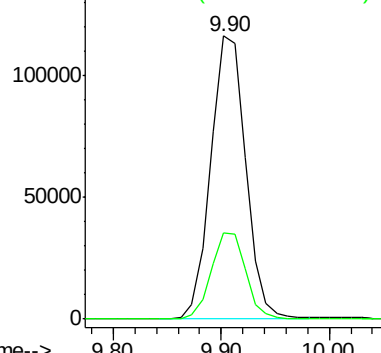
106 30.6 24.1 36.1

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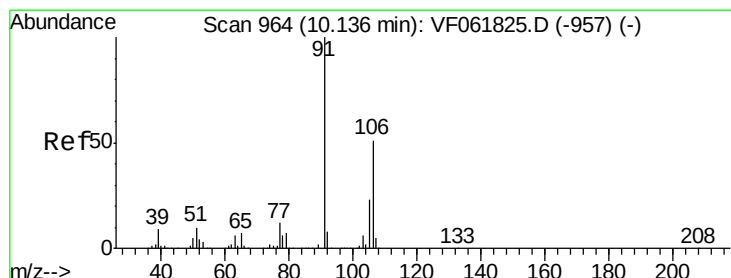
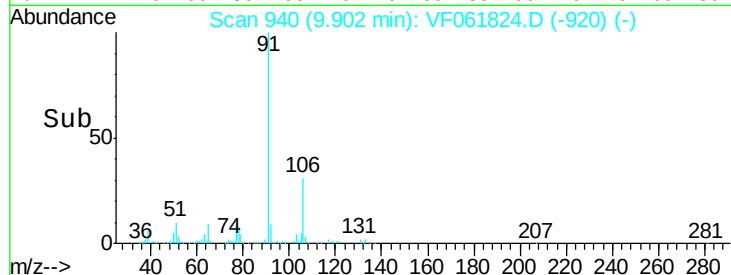
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



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#68

m/p-Xylenes

Concen: 39.682 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.00 min

Lab File: VF061824.D

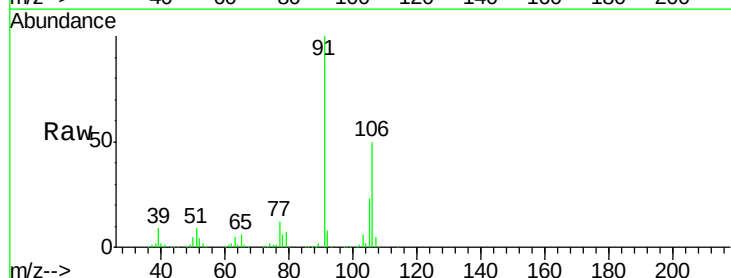
Acq: 4 Mar 2019 17:02

Tgt Ion: 106 Resp: 200843

Ion Ratio Lower Upper

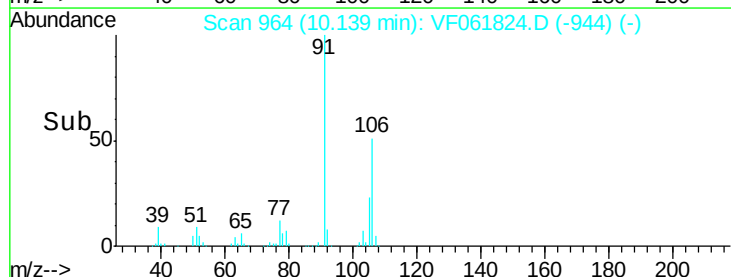
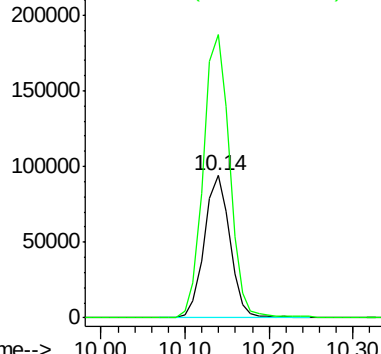
106 100

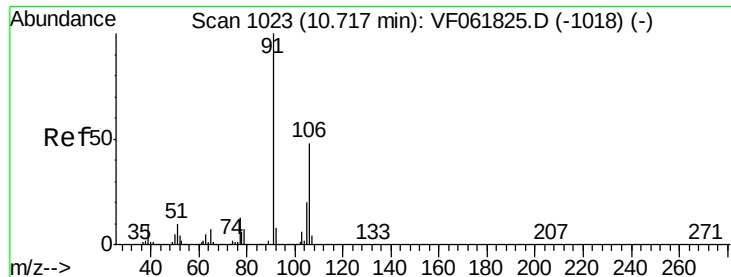
91 199.0 153.0 229.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



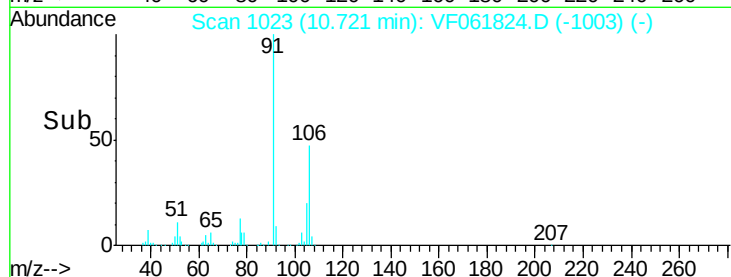
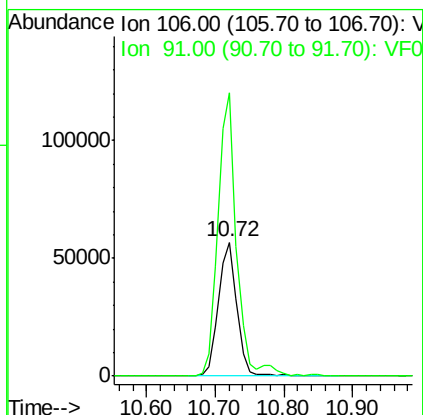
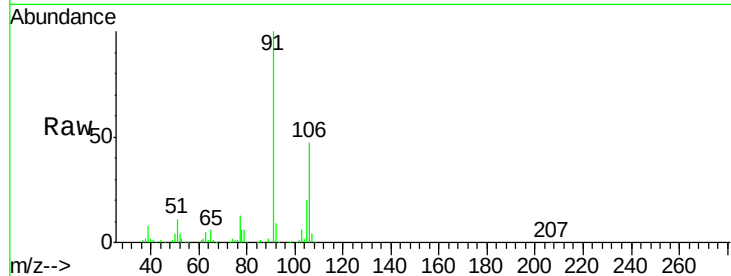


#69
o-Xylene
Concen: 19.710 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

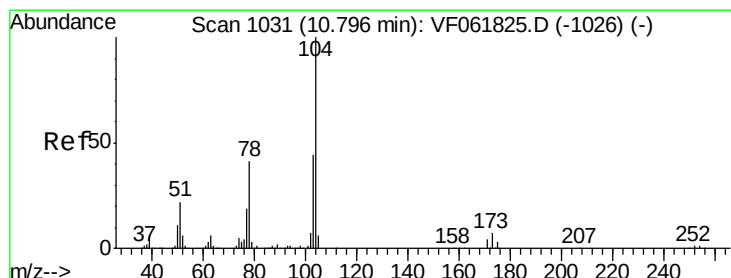
Tot Ion:106 Resp: 106447
Ion Ratio Lower Upper
106 100
91 211.0 100.1 300.1

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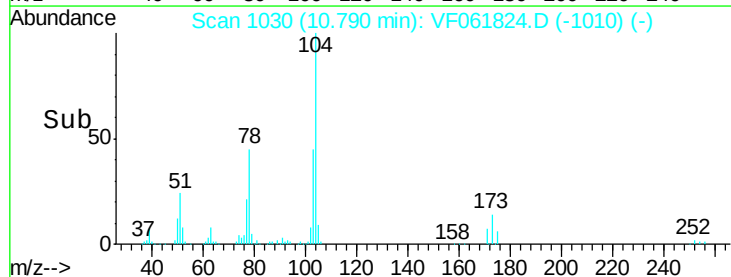
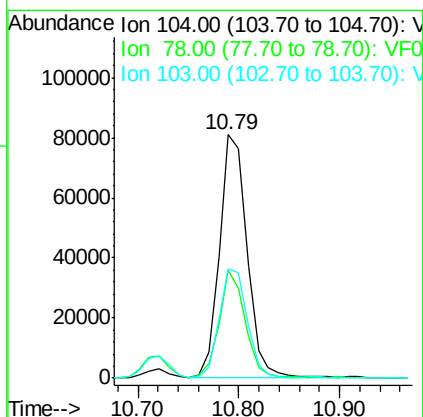
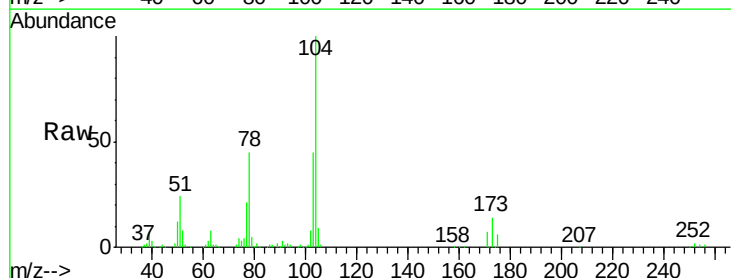
MMDadoda

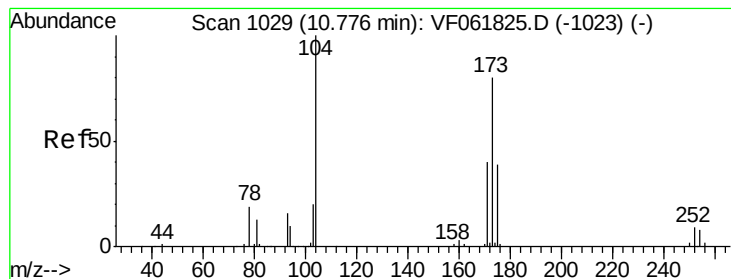
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#70
Styrene
Concen: 20.227 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion:104 Resp: 154538
Ion Ratio Lower Upper
104 100
78 44.5 33.2 49.8
103 44.9 37.2 55.8





#71

Bromoform

Concen: 19.121 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampled :

VSTDIC020

Tot Ion:173 Resp: 32355

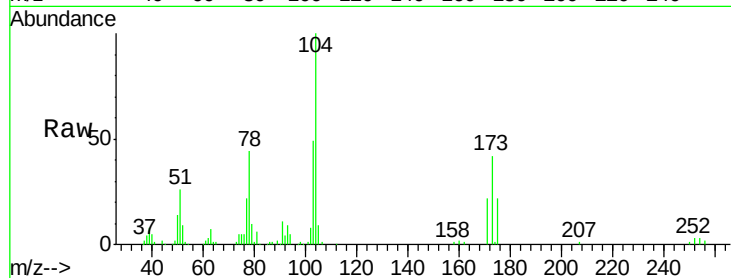
Ion Ratio Lower Upper

173 100

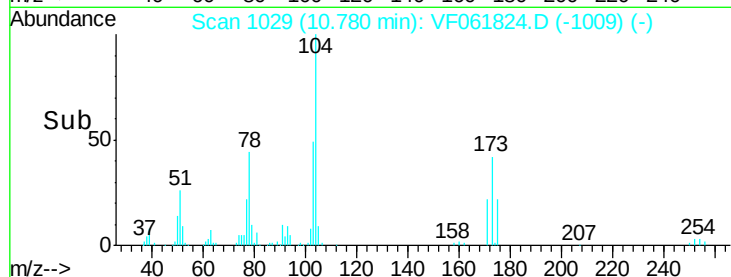
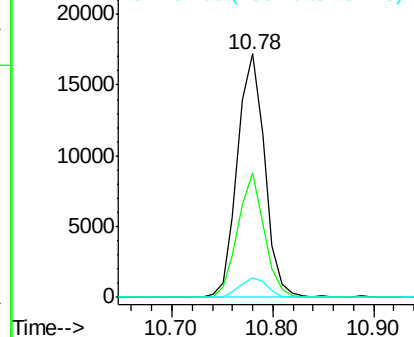
175 51.0 24.0 72.0

254 8.1 8.2 12.2#

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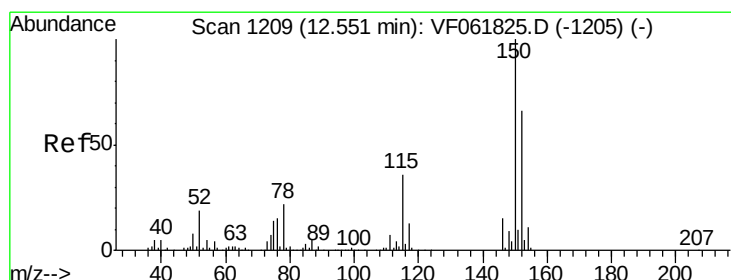


Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

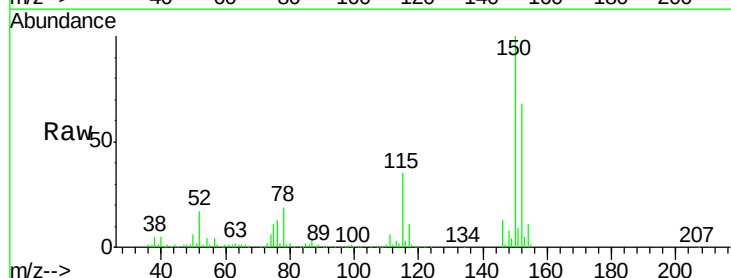
Tgt Ion:152 Resp: 221643

Ion Ratio Lower Upper

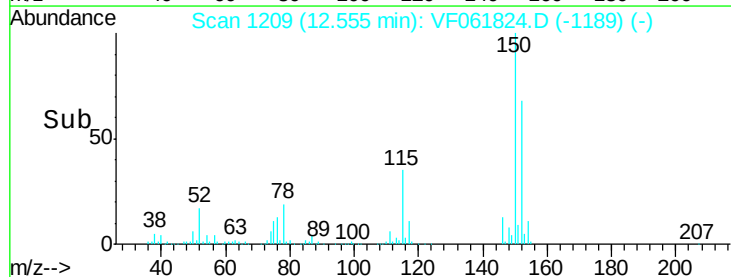
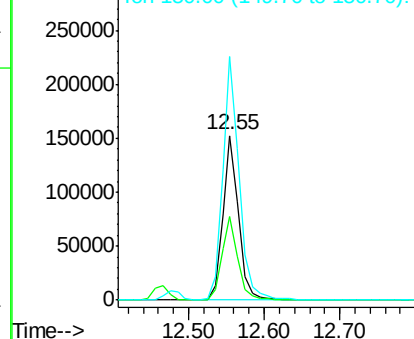
152 100

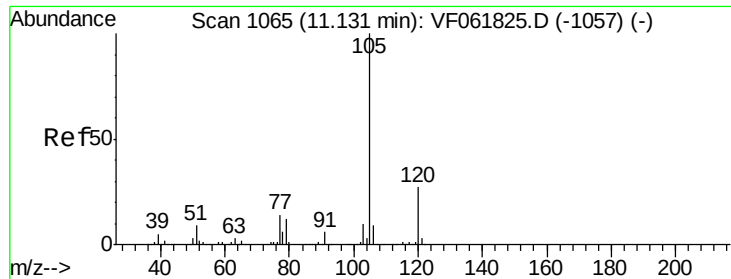
115 51.1 24.3 72.8

150 148.0 0.0 312.0



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 20.266 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

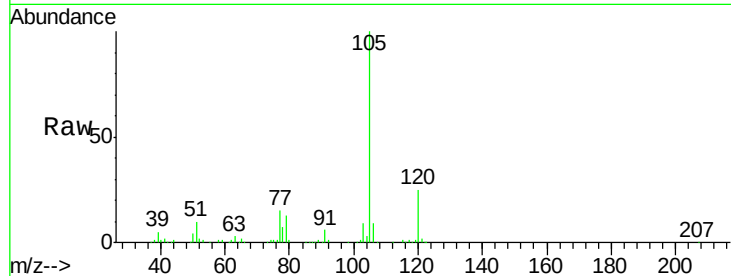
Tot Ion:105 Resp: 319804

Ion Ratio Lower Upper

105 100

120 25.3 13.4 40.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.12

200000

150000

100000

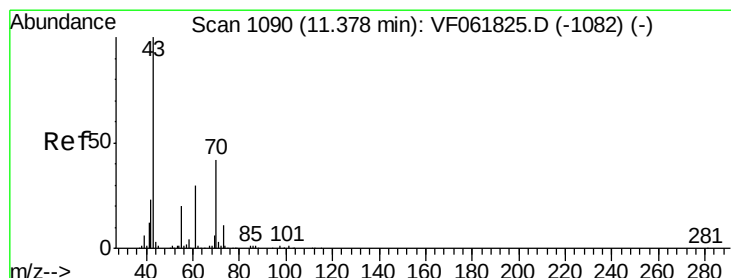
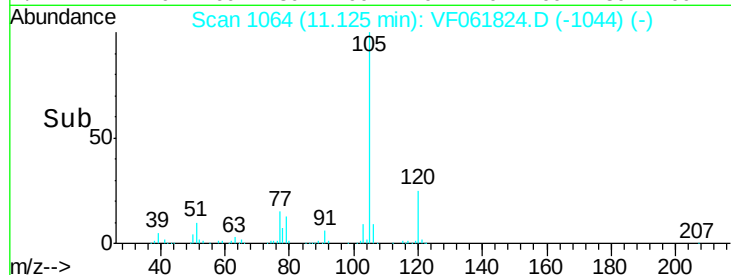
50000

0

Time--> 11.00 11.10 11.20 11.30

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#74

N-ethyl acetate

Concen: 19.272 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion: 43 Resp: 72997

Ion Ratio Lower Upper

43 100

70 36.4 31.5 47.3

55 21.3 16.7 25.1

61 27.0 23.0 34.6

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

11.37

60000

50000

40000

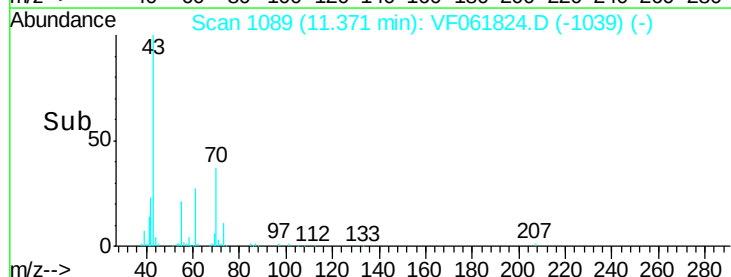
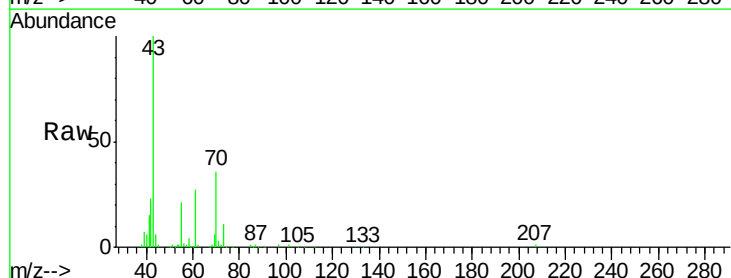
30000

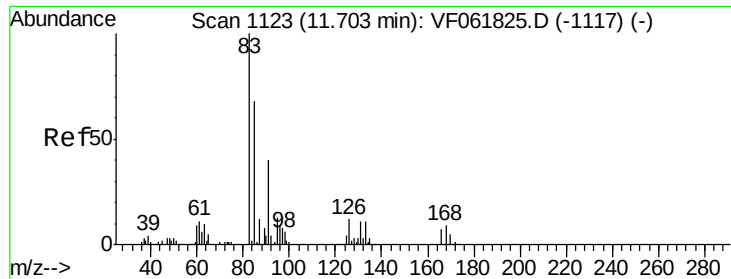
20000

10000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 18.320 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

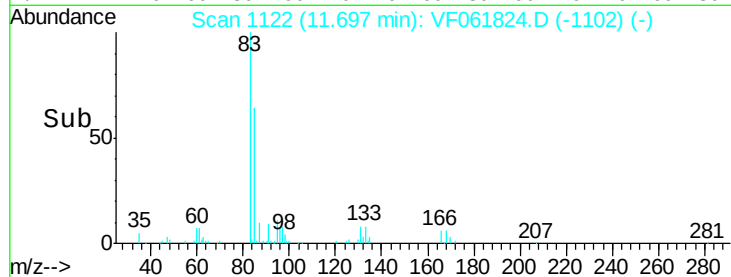
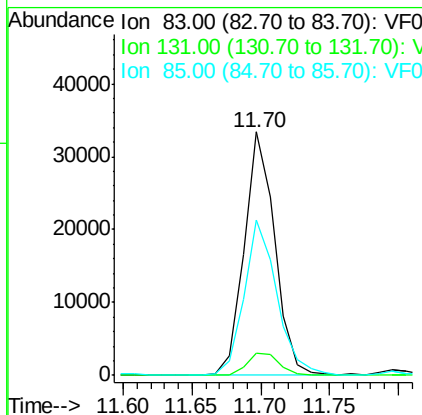
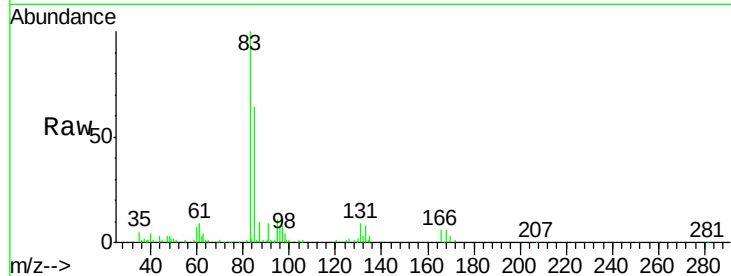
MSVOA_F

ClientSampleId :

VSTDIC020

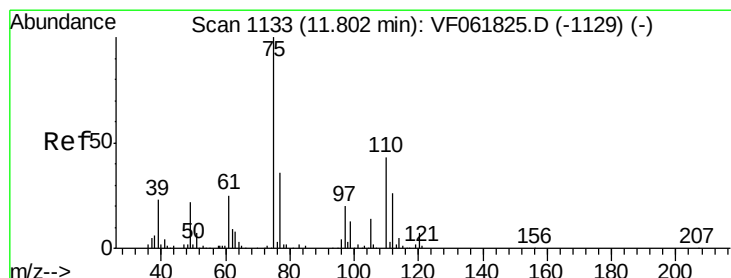
Tot Ion:	83	Resp:	51794
Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.4	13.2
85	63.7	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 18.005 ug/l

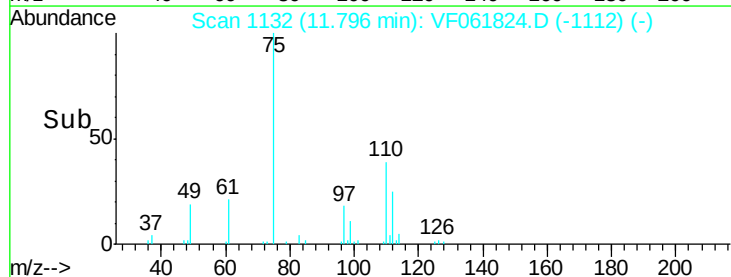
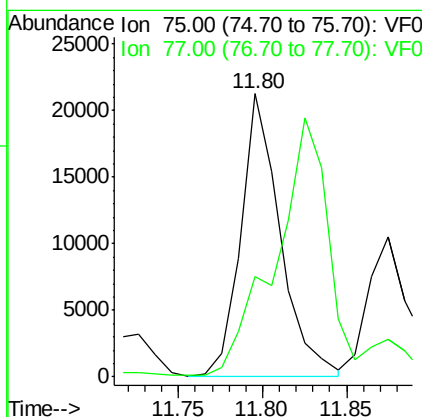
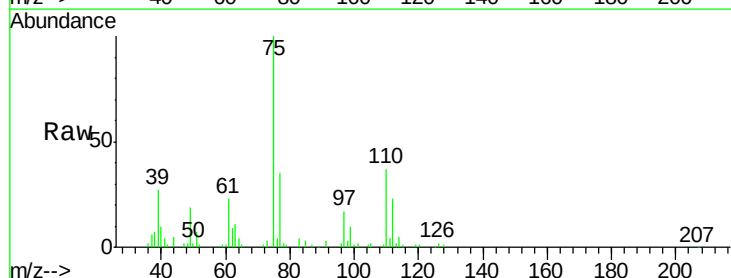
RT: 11.80 min Scan# 1132

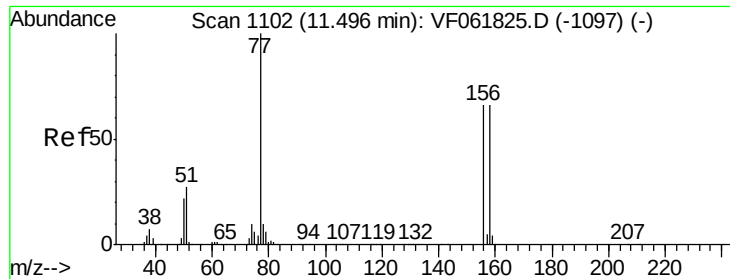
Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion:	75	Resp:	34608
Ion	Ratio	Lower	Upper
75	100		
77	35.4	16.6	49.7





#77

Bromobenzene

Concen: 18.856 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

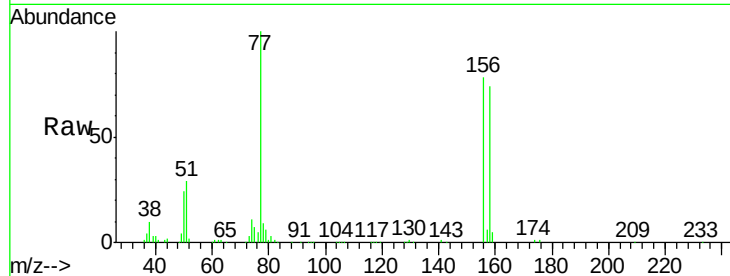
MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:	156	Resp:	73509
Ion	Ratio	Lower	Upper
156	100		
77	127.6	64.3	192.7
158	93.9	50.9	152.7

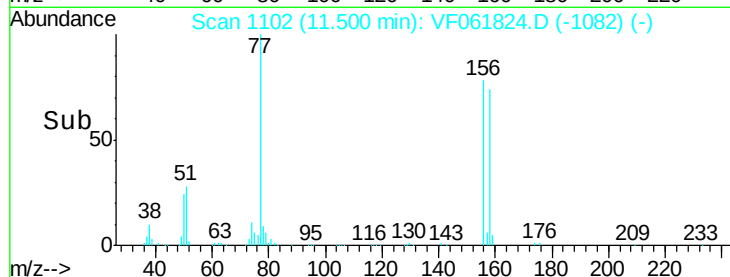
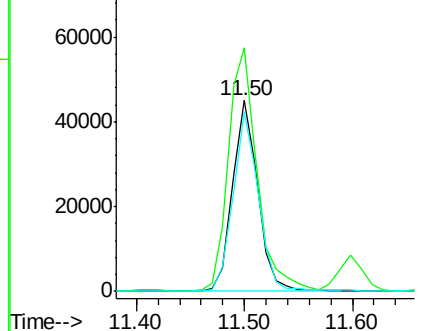
Manual Integrations
APPROVED



Abundance Ion 156.00 (155.70 to 156.70): V

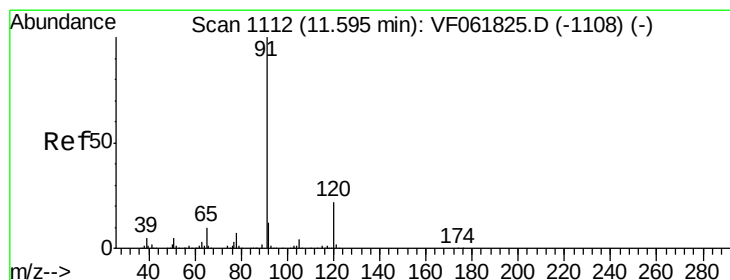
Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



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#78

n-propylbenzene

Concen: 19.625 ug/l

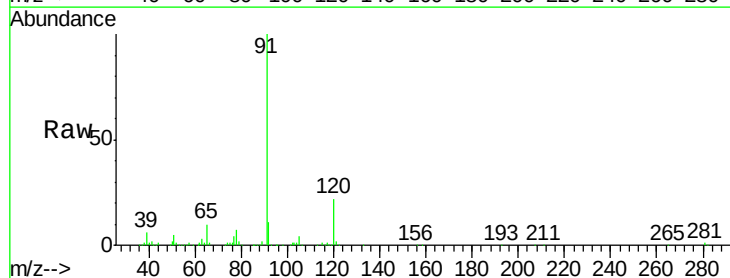
RT: 11.60 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF061824.D

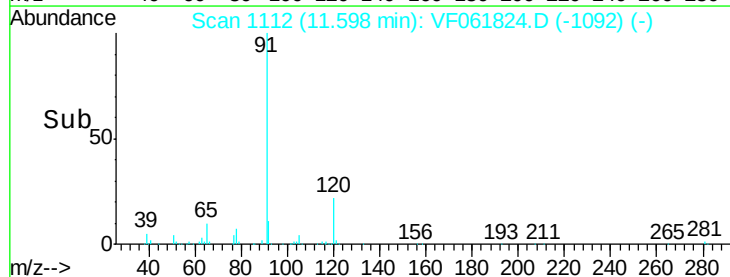
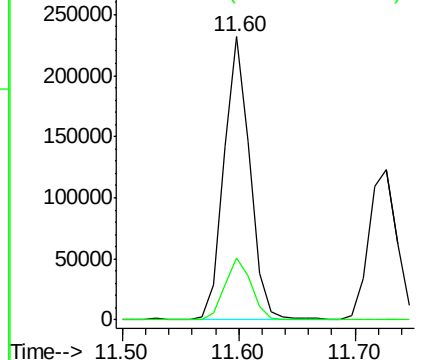
Acq: 4 Mar 2019 17:02

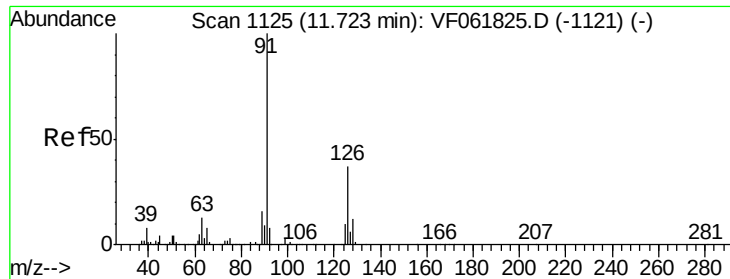
Tgt Ion:	91	Resp:	355379
Ion	Ratio	Lower	Upper
91	100		
120	22.0	12.1	36.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



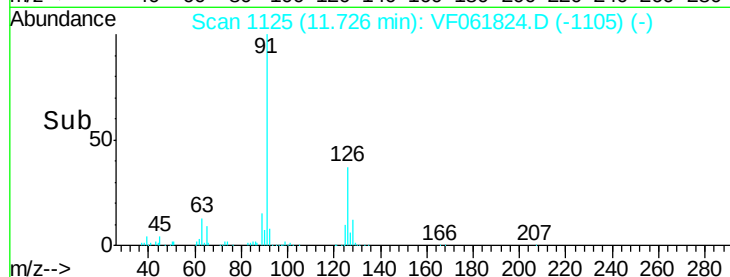
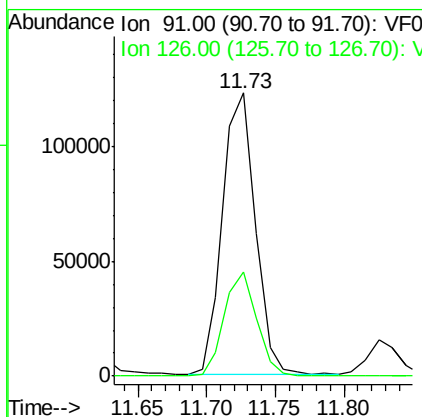
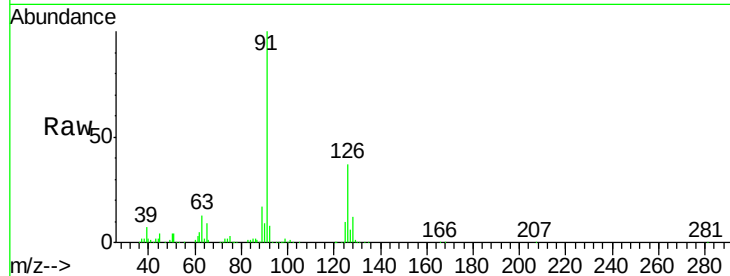


#79
2-Chlorotoluene
Concen: 20.056 ug/l
RT: 11.73 min Scan# 1125
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

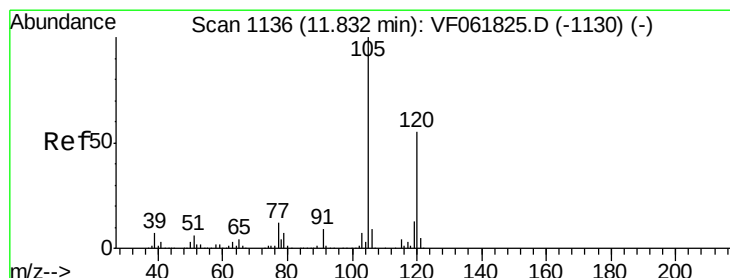
Tot Ion	Ratio	Lower	Upper
91	100		
126	36.7	19.8	59.4

Manual Integrations
APPROVED



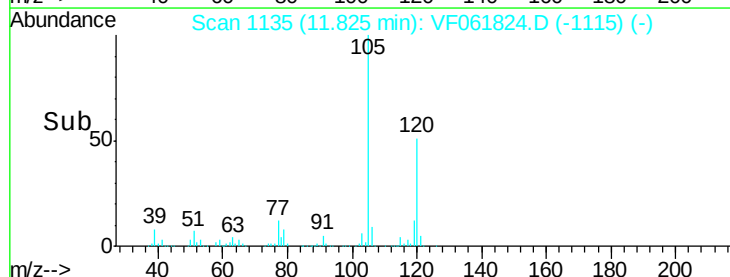
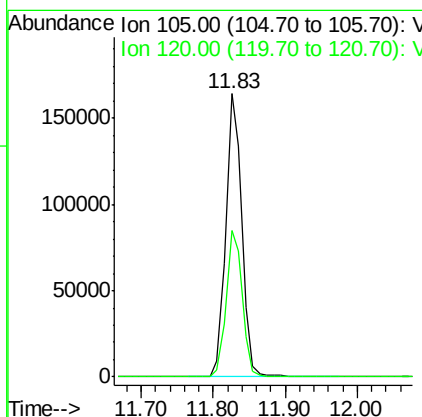
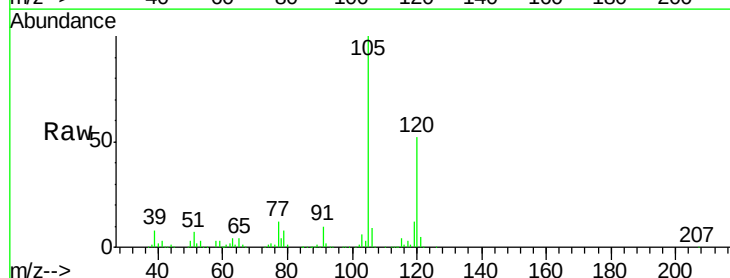
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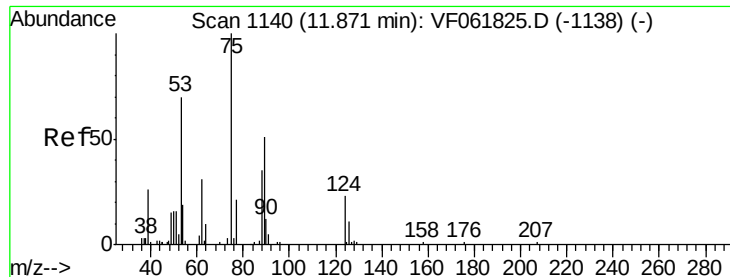
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#80
1,3,5-Trimethylbenzene
Concen: 20.036 ug/l
RT: 11.83 min Scan# 1135
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.8	27.9	83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 18.429 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 16982

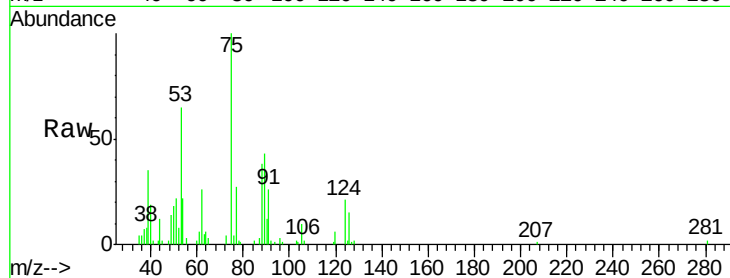
Ion Ratio Lower Upper

75 100

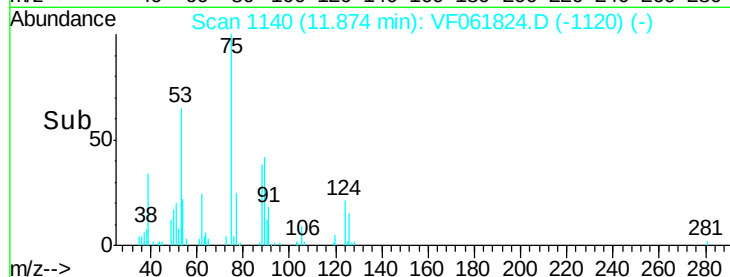
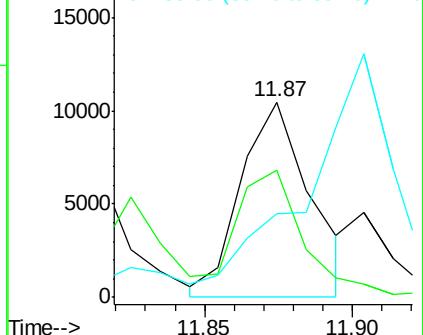
53 65.3 53.7 80.5

89 43.1 41.6 62.4

Manual Integrations
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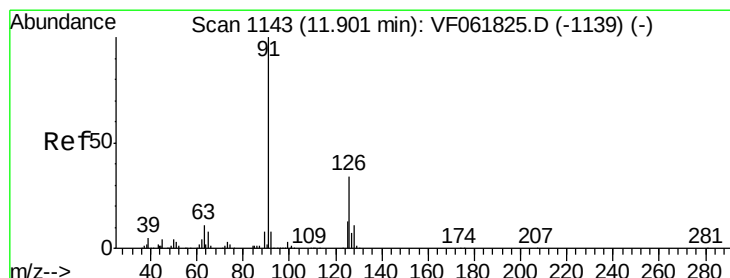


Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0



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#82

4-Chlorotoluene

Concen: 19.800 ug/l

RT: 11.90 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF061824.D

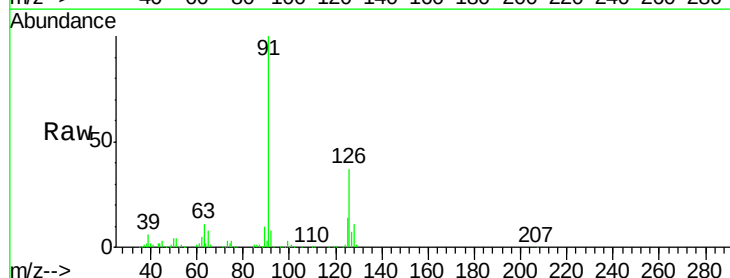
Acq: 4 Mar 2019 17:02

Tgt Ion: 91 Resp: 208430

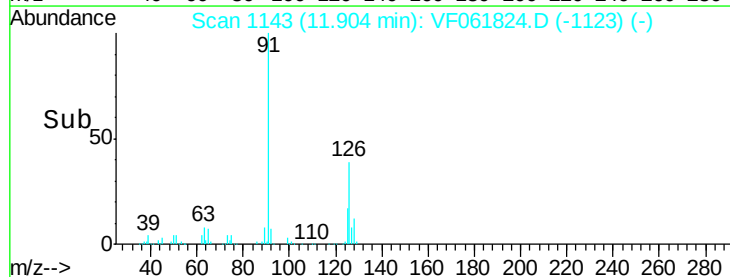
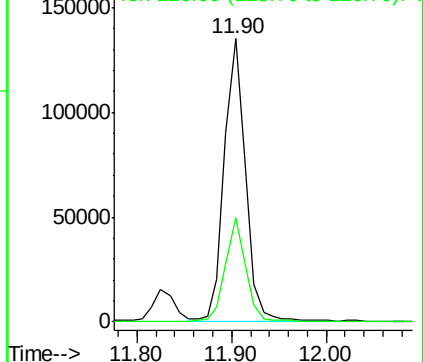
Ion Ratio Lower Upper

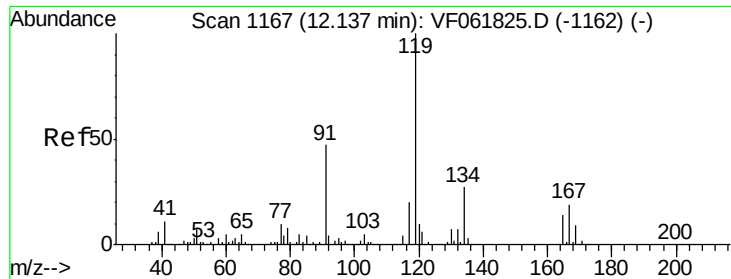
91 100

126 36.7 19.1 57.1



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V



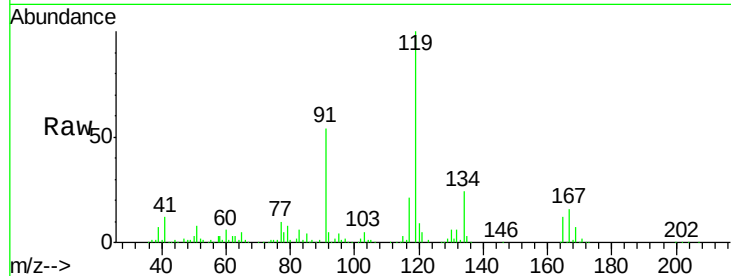


#83
 tert-Butylbenzene
 Concen: 19.541 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

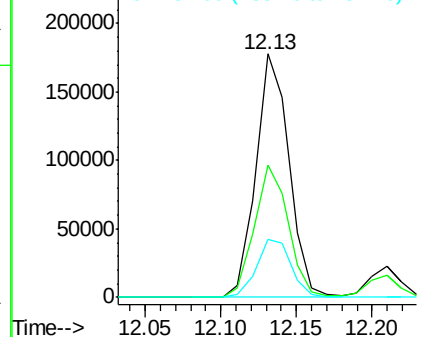
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	272983		
91	54.2		26.3	78.8
134	23.8		12.9	38.7

Manual Integrations
 APPROVED

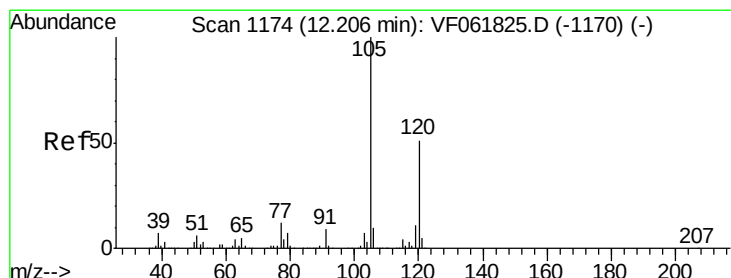
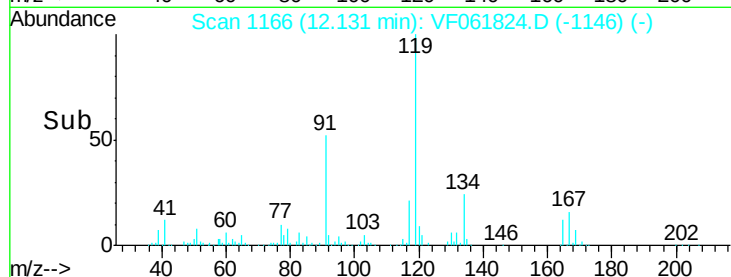


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V



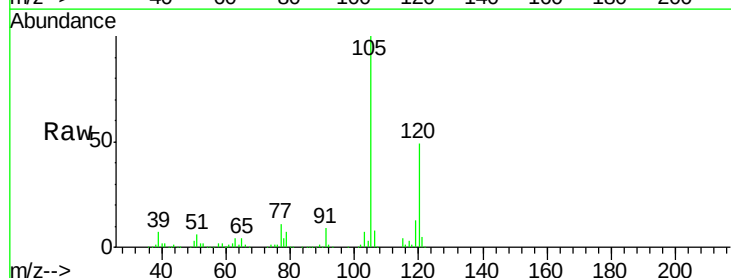
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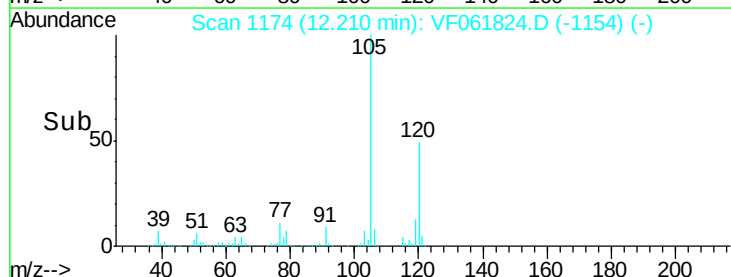
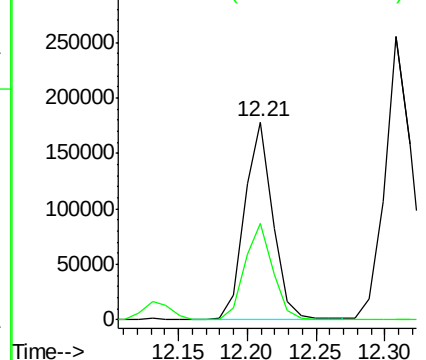


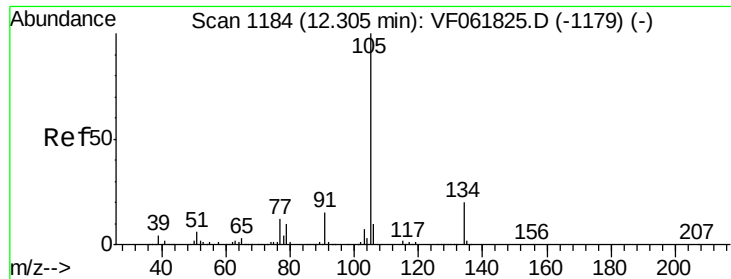
#84
 1,2,4-Trimethylbenzene
 Concen: 20.293 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	254272		
120	48.5		26.1	78.3



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V



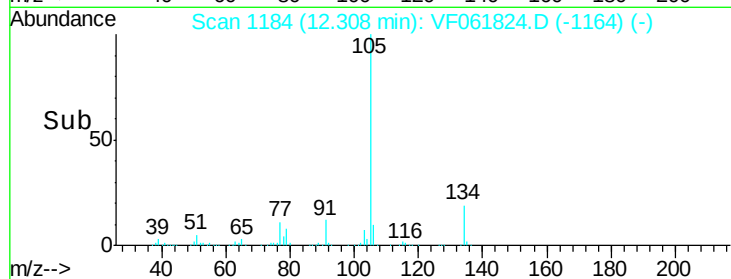
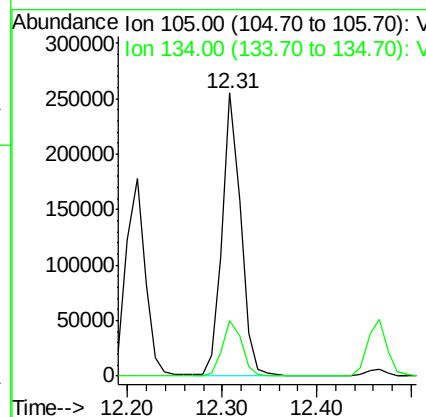
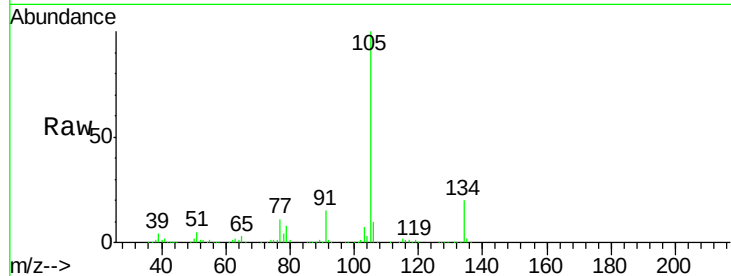


#85
 sec-Butylbenzene
 Concen: 19.247 ug/l
 RT: 12.31 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

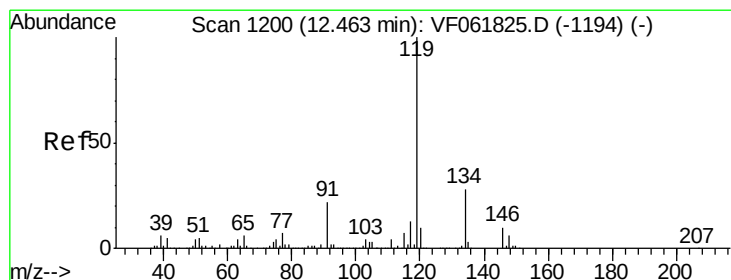
Tot Ion	Ratio	Lower	Upper
105	100		
134	19.6	10.8	32.4

Manual Integrations
 APPROVED



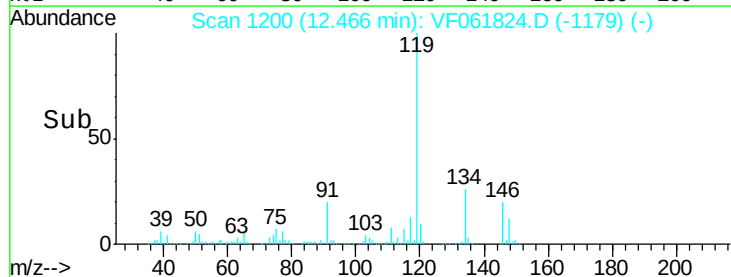
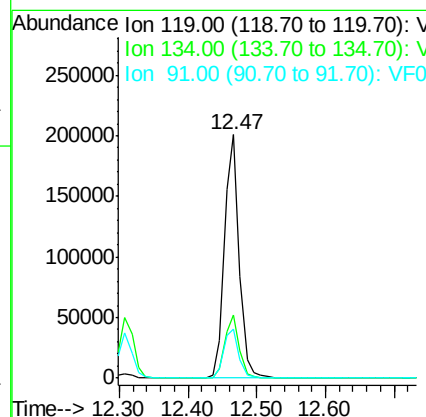
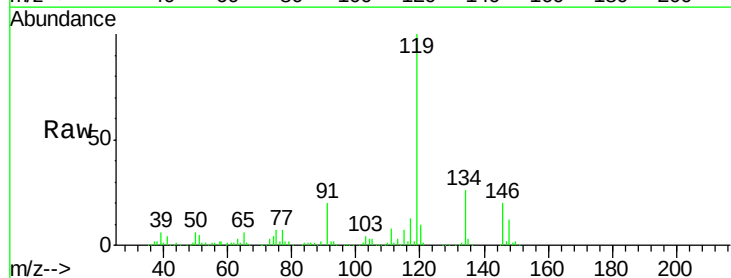
MMDadoda

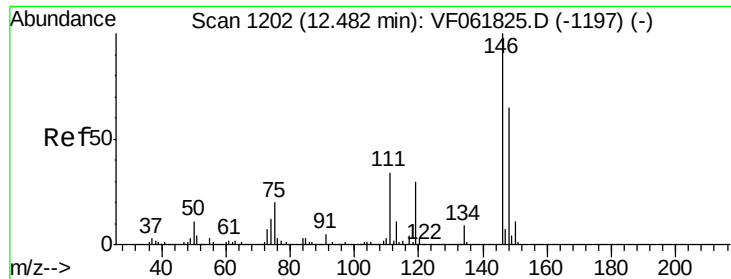
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#86
 p-Isopropyltoluene
 Concen: 19.517 ug/l
 RT: 12.47 min Scan# 1200
 Delta R.T. 0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.7	41.1
91	20.1	10.8	32.4





#87

1,3-Dichlorobenzene

Concen: 18.166 ug/l

RT: 12.48 min Scan# 1201

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

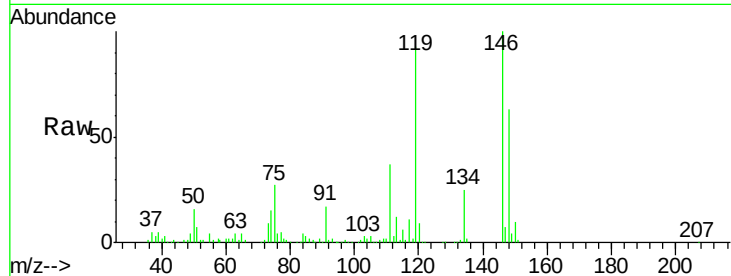
MSVOA_F

ClientSampleId :

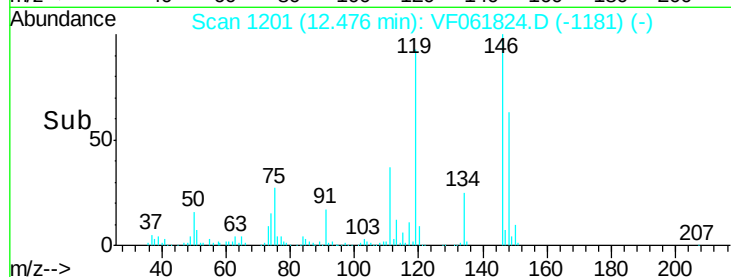
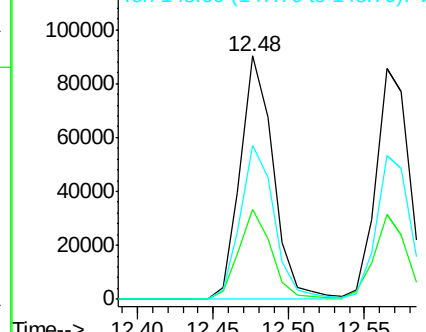
VSTDIC020

Tot Ion:	146	Resp:	138067
Ion Ratio	Lower	Upper	
146	100		
111	36.9	17.5	52.6
148	63.4	31.4	94.3

Manual Integrations
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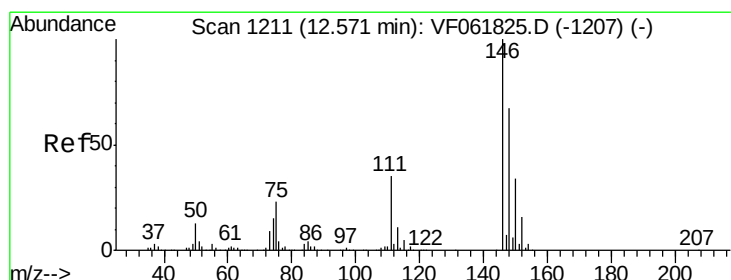


Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



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#88

1,4-Dichlorobenzene

Concen: 18.469 ug/l

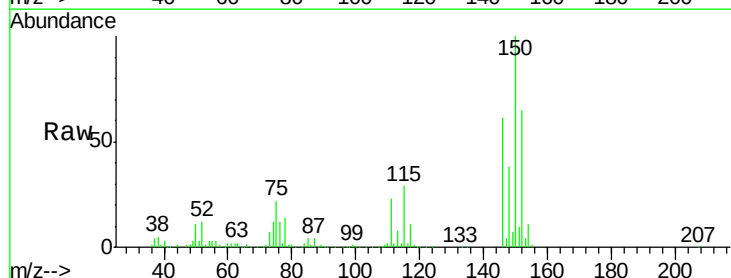
RT: 12.56 min Scan# 1210

Delta R.T. -0.00 min

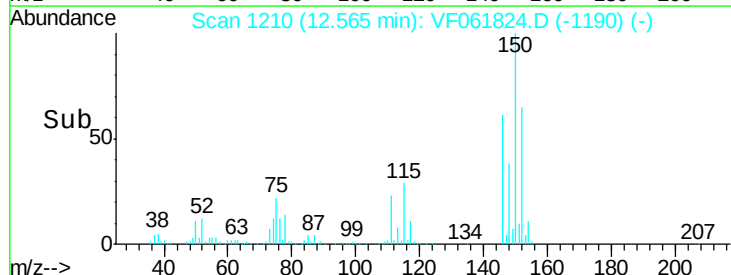
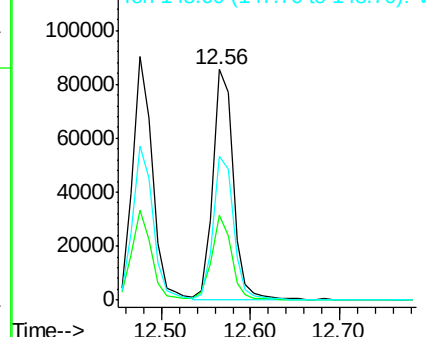
Lab File: VF061824.D

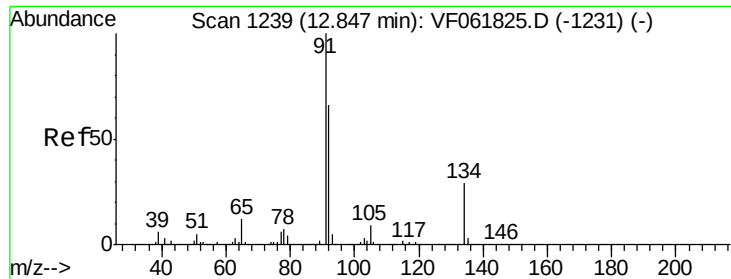
Acq: 4 Mar 2019 17:02

Tgt Ion:	146	Resp:	134997
Ion Ratio	Lower	Upper	
146	100		
111	36.9	18.4	55.4
148	62.5	32.2	96.6



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



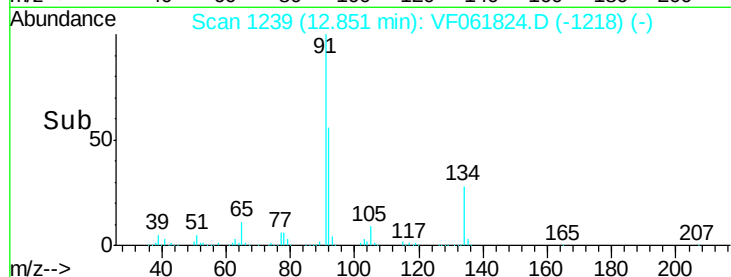
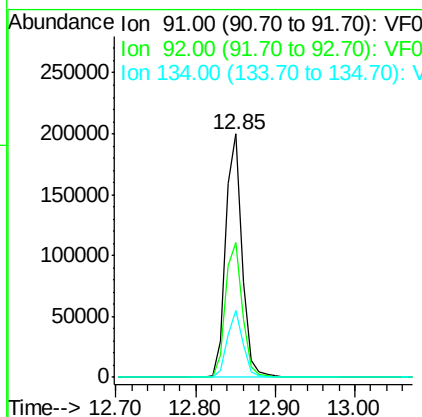
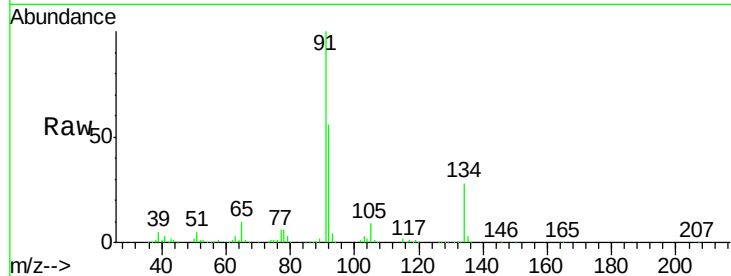


#89
n-Butylbenzene
Concen: 20.357 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

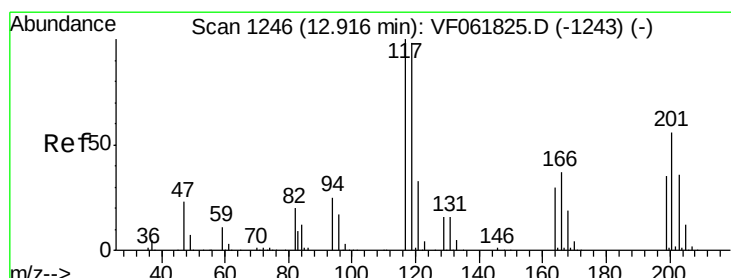
Tot Ion	Ratio	Lower	Upper
91	100		
92	55.6	31.4	94.3
134	27.7	12.3	36.9

Manual Integrations
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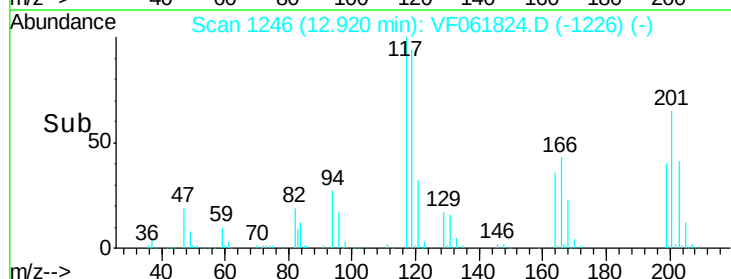
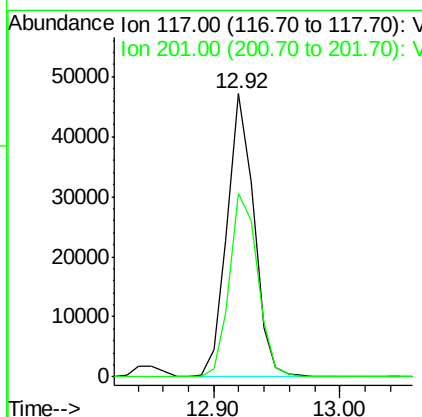
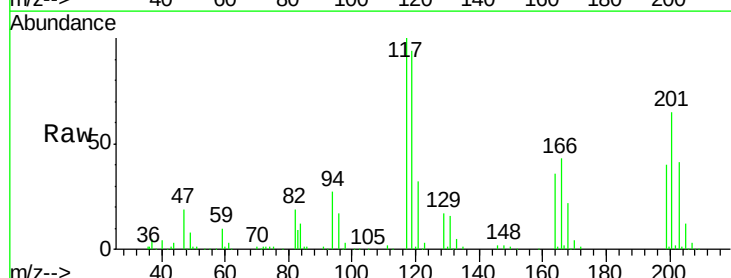
MMDadoda

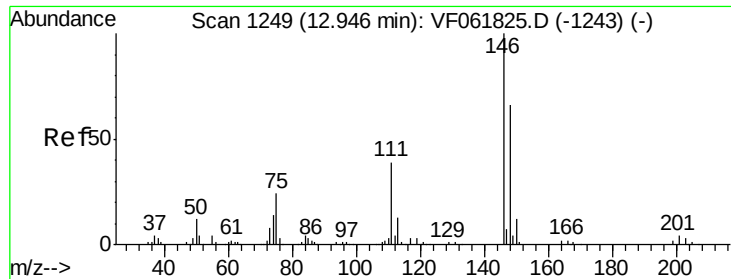
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#90
Hexachloroethane
Concen: 19.752 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.00 min
Lab File: VF061824.D
Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
117	100		
201	64.9	36.2	108.6



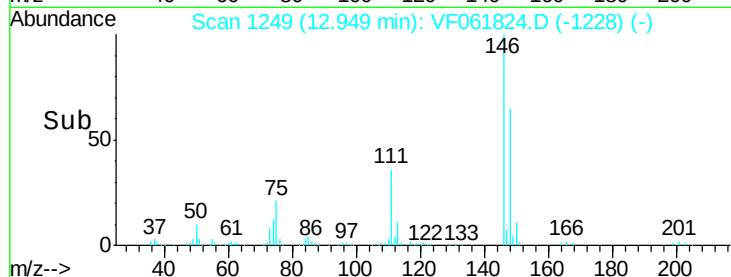
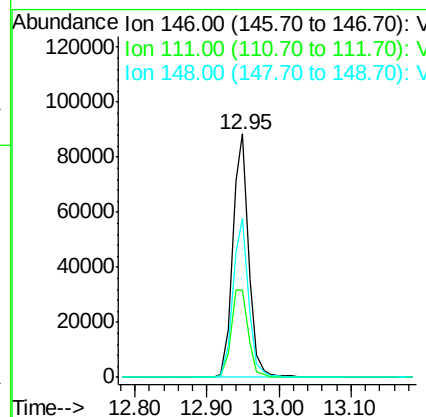
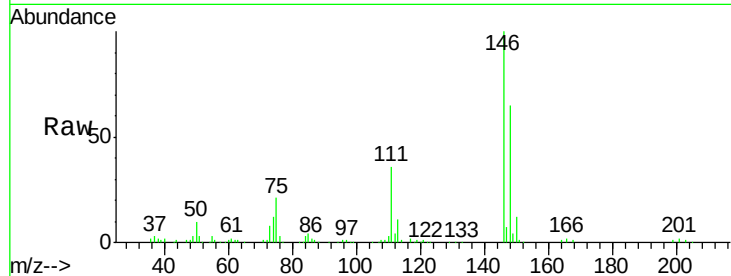


#91
 1,2-Dichlorobenzene
 Concen: 18.725 ug/l
 RT: 12.95 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

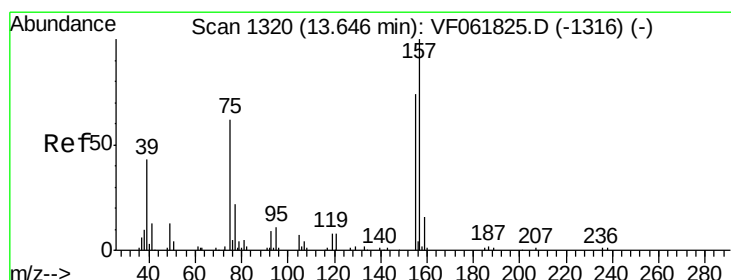
Tot Ion	Ratio	Lower	Upper
146	100		
111	35.9	20.2	60.5
148	65.2	32.3	96.9

Manual Integrations
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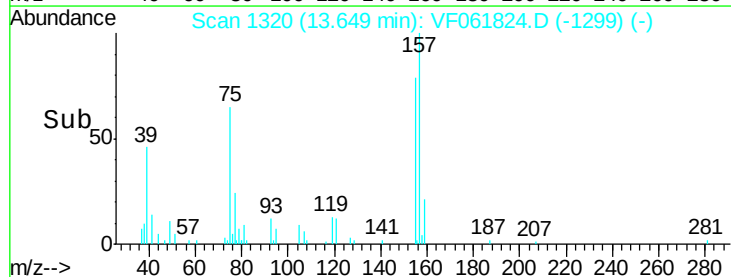
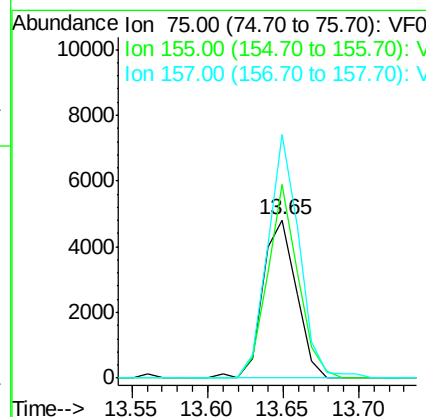
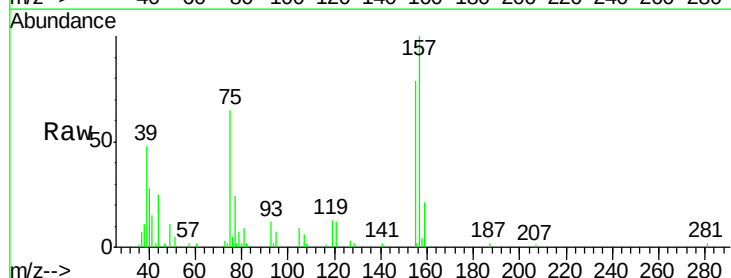
MMDadoda

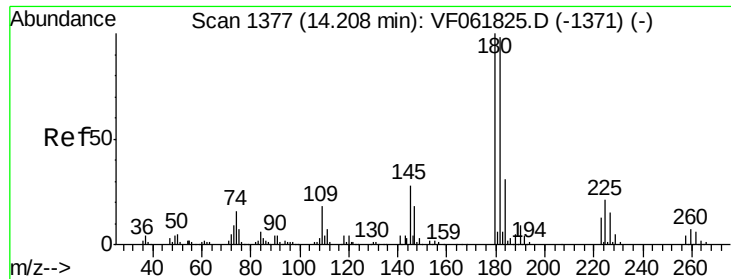
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.601 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	122.1	48.9	146.8
157	153.9	58.3	174.8



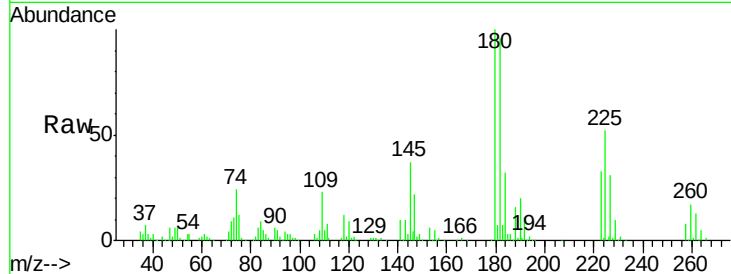


#93
 1,2,4-Trichlorobenzene
 Concen: 18.066 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

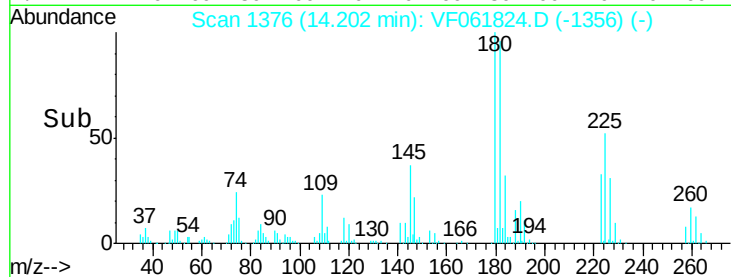
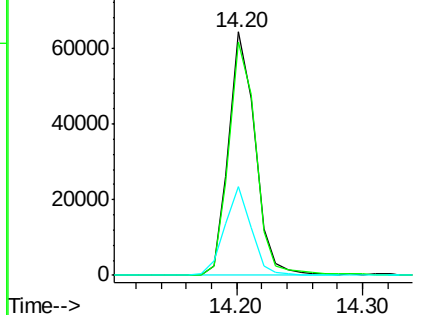
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	48.6	145.9
145	36.7	15.3	45.9

Manual Integrations
 APPROVED

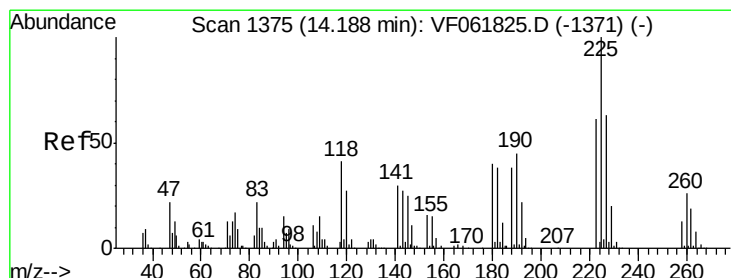


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V



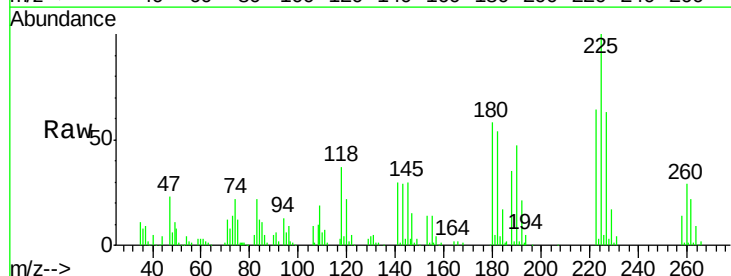
MMDadoda

3/5/2019 10:47:20 AM

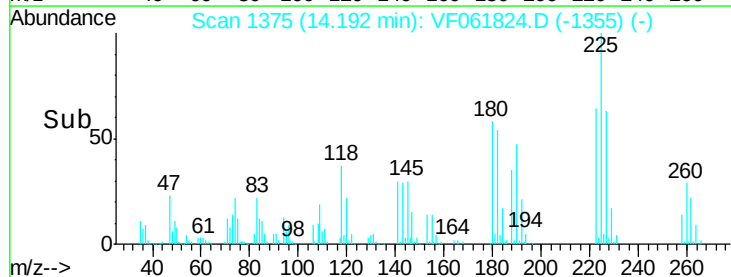
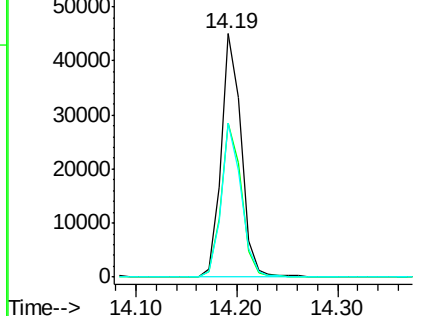


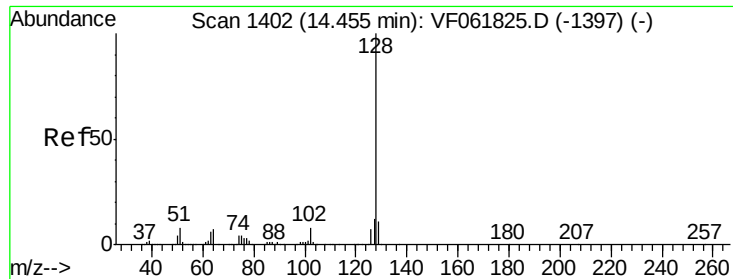
#94
 Hexachlorobutadiene
 Concen: 19.646 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061824.D
 Acq: 4 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	30.9	92.7
227	63.3	32.1	96.3



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 17.558 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Instrument :

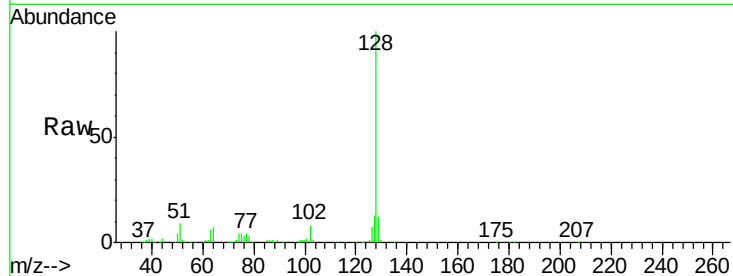
MSVOA_F

ClientSampleId :

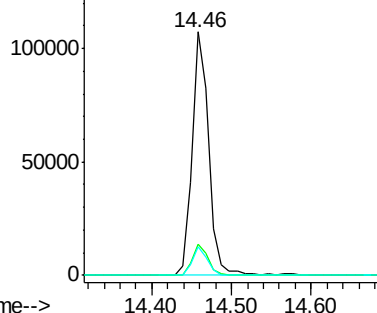
VSTDIC020

Tot Ion:	128	Resp:	159176
Ion Ratio	Lower	Upper	
128	100		
127	12.9	9.8	14.6
129	11.7	9.4	14.2

Manual Integrations
APPROVED

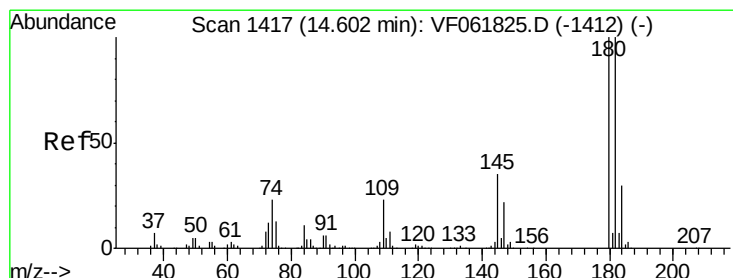
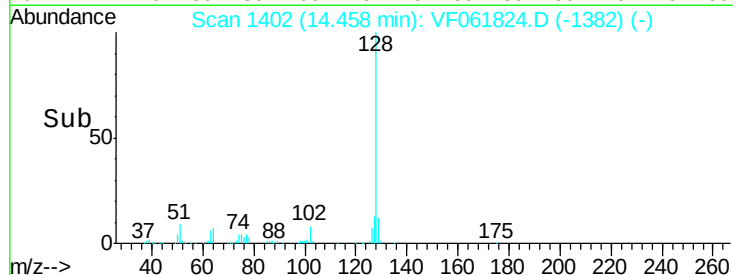


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



MMDadoda

3/5/2019 10:47:20 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.536 ug/l

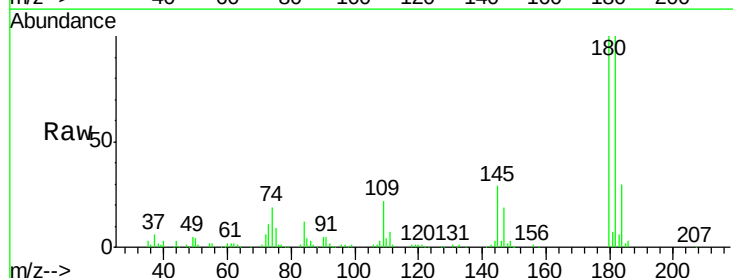
RT: 14.61 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VF061824.D

Acq: 4 Mar 2019 17:02

Tgt Ion:	180	Resp:	88157
Ion Ratio	Lower	Upper	
180	100		
182	100.3	49.0	147.2
145	29.4	15.4	46.1



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

