

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061822.D
 Acq On : 4 Mar 2019 16:04
 Operator : VA/AP
 Sample : VSTDIC005
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:47:07 AM

Quant Time: Mar 05 04:42:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:03:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	327135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	505976	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	432520	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	239939	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	11384	4.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.50%	
35) Dibromofluoromethane	4.12	113	16501	4.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.78%	
50) Toluene-d8	7.56	98	50201	4.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.30%	
62) 4-Bromofluorobenzene	11.42	95	20250	4.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.26%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	20215	5.381	ug/l	94
3) Chloromethane	1.09	50	21838	5.540	ug/l #	83
4) Vinyl Chloride	1.14	62	19074	5.205	ug/l	93
5) Bromomethane	1.33	94	14238	5.646	ug/l	96
6) Chloroethane	1.40	64	9022	4.996	ug/l	94
7) Trichlorofluoromethane	1.49	101	22414m	5.071	ug/l	
8) Diethyl Ether	1.63	74	5229	4.695	ug/l	77
9) 1,1,2-Trichlorotrifluoroet	1.83	101	17328	5.435	ug/l #	86
10) Methyl Iodide	1.92	142	32031m	5.259	ug/l	
11) Tert butyl alcohol	2.58	59	3039	21.889	ug/l	99
12) 1,1-Dichloroethene	1.80	96	15468	5.518	ug/l	90
13) Acrolein	2.00	56	5135	29.428	ug/l	97
14) Allyl chloride	2.10	41	16957	4.930	ug/l	95
15) Acrylonitrile	2.96	53	11924	24.214	ug/l #	89
16) Acetone	2.25	43	14297	27.777	ug/l	92
17) Carbon Disulfide	1.83	76	46596	5.288	ug/l	97
18) Methyl Acetate	2.35	43	9786m	8.440	ug/l	
19) Methyl tert-butyl Ether	2.44	73	24529	5.120	ug/l	99
20) Methylene Chloride	2.19	84	29751m	9.569	ug/l	
21) trans-1,2-Dichloroethene	2.31	96	15922	5.225	ug/l #	90
22) Diisopropyl ether	2.81	45	41723	5.053	ug/l #	98
23) Vinyl Acetate	3.19	43	89237	22.127	ug/l #	94
24) 1,1-Dichloroethane	2.88	63	24251	4.853	ug/l	97
25) 2-Butanone	4.35	43	25729	22.885	ug/l	93
26) 2,2-Dichloropropane	3.62	77	11892	5.618	ug/l	82
27) cis-1,2-Dichloroethene	3.48	96	18905	4.726	ug/l	95
28) Bromochloromethane	3.72	49	11679	4.871	ug/l	94
29) Tetrahydrofuran	4.10	42	11575	22.652	ug/l	98
30) Chloroform	3.87	83	28528	5.020	ug/l	99
31) Cyclohexane	3.70	56	26613	4.920	ug/l	93
32) 1,1,1-Trichloroethane	4.11	97	18661	5.013	ug/l	96
36) 1,1-Dichloropropene	4.29	75	23660	4.720	ug/l	89
37) Ethyl Acetate	4.13	43	9800	4.209	ug/l #	89
38) Carbon Tetrachloride	4.00	117	16775	4.847	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	27586	4.654	ug/l	89
40) Benzene	4.64	78	60852	4.641	ug/l	99
41) Methacrylonitrile	4.76	41	5661	4.755	ug/l #	83
42) 1,2-Dichloroethane	4.95	62	13416	4.278	ug/l	98
43) Isopropyl Acetate	6.97	43	12394	4.498	ug/l #	99
44) Trichloroethene	5.51	130	19881	4.689	ug/l	99
45) 1,2-Dichloropropane	6.25	63	14775	4.662	ug/l	94
46) Dibromomethane	6.10	93	8496	4.354	ug/l	88
47) Bromodichloromethane	6.40	83	19326	4.523	ug/l	88
48) Methyl methacrylate	6.73	41	6985	4.212	ug/l	96
49) 1,4-Dioxane	6.72	88	1075	68.956	ug/l #	76
51) 4-Methyl-2-Pentanone	8.27	43	41662	21.158	ug/l	96
52) Toluene	7.63	92	38086	4.790	ug/l	88
53) t-1,3-Dichloropropene	8.28	75	16628	4.676	ug/l	91
54) cis-1,3-Dichloropropene	7.30	75	23103	4.877	ug/l	95
55) 1,1,2-Trichloroethane	8.50	97	10289	4.404	ug/l #	72
56) Ethyl methacrylate	8.63	69	11553	4.442	ug/l	97
57) 1,3-Dichloropropane	8.86	76	16177	4.149	ug/l #	80
58) 2-Chloroethyl Vinyl ether	7.30	63	8683	19.349	ug/l	89
59) 2-Hexanone	9.50	43	33437	24.225	ug/l	98
60) Dibromochloromethane	8.72	129	14373	4.420	ug/l	99
61) 1,2-Dibromoethane	9.00	107	11345	4.477	ug/l	90
64) Tetrachloroethene	8.16	164	15987	4.522	ug/l	94
65) Chlorobenzene	9.80	112	41920	4.776	ug/l	90
66) 1,1,1,2-Tetrachloroethane	9.94	131	15696	4.564	ug/l	92
67) Ethyl Benzene	9.91	91	70603	4.837	ug/l	96
68) m/p-Xylenes	10.13	106	55722	9.975	ug/l	98
69) o-Xylene	10.72	106	28571	4.793	ug/l	93
70) Styrene	10.79	104	40662	4.822	ug/l	95
71) Bromoform	10.78	173	8011	4.290	ug/l	87
73) Isopropylbenzene	11.13	105	83717	4.901	ug/l	94
74) N-amyl acetate	11.38	43	17746	4.328	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.70	83	13510	4.414	ug/l	92
76) 1,2,3-Trichloropropane	11.80	75	9131	4.388	ug/l	99
77) Bromobenzene	11.49	156	20782	4.924	ug/l	85
78) n-propylbenzene	11.59	91	97366	4.967	ug/l	93
79) 2-Chlorotoluene	11.72	91	54573	4.971	ug/l	89
80) 1,3,5-Trimethylbenzene	11.83	105	68185	4.994	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.87	75	4203m	4.213	ug/l	
82) 4-Chlorotoluene	11.90	91	54655	4.796	ug/l	91
83) tert-Butylbenzene	12.14	119	65700	4.344	ug/l	91
84) 1,2,4-Trimethylbenzene	12.20	105	66270	4.886	ug/l	97
85) sec-Butylbenzene	12.31	105	93320	4.772	ug/l	99
86) p-Isopropyltoluene	12.46	119	80815	4.924	ug/l	98
87) 1,3-Dichlorobenzene	12.48	146	40766	4.955	ug/l	94
88) 1,4-Dichlorobenzene	12.57	146	37255	4.708	ug/l	97
89) n-Butylbenzene	12.85	91	77996	5.033	ug/l	94
90) Hexachloroethane	12.91	117	17665	4.628	ug/l	80
91) 1,2-Dichlorobenzene	12.94	146	37783	4.828	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.64	75	1595	3.287	ug/l	84

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VSTDICC005

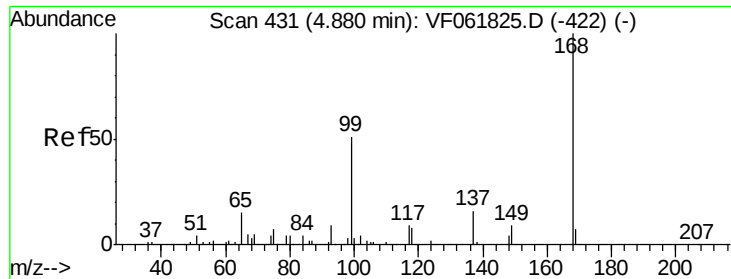
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APPROVED

MMDadoda
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.21	180	27495	4.902	ug/l	98
94) Hexachlorobutadiene	14.19	225	21807	6.295	ug/l	92
95) Naphthalene	14.46	128	42750	4.356	ug/l	98
96) 1,2,3-Trichlorobenzene	14.61	180	21837	4.241	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 327135

Ion Ratio Lower Upper

168 100

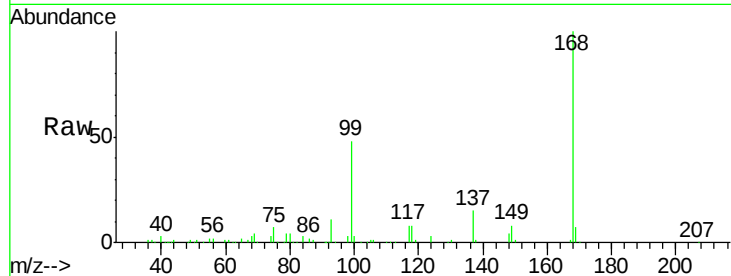
99 48.0 34.9 52.3

Manual Integrations

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3/5/2019 10:47:07 AM



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

120000

100000

80000

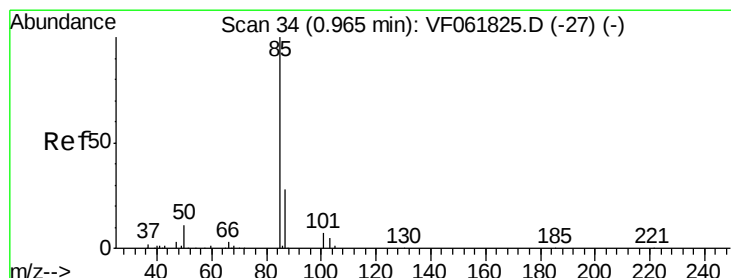
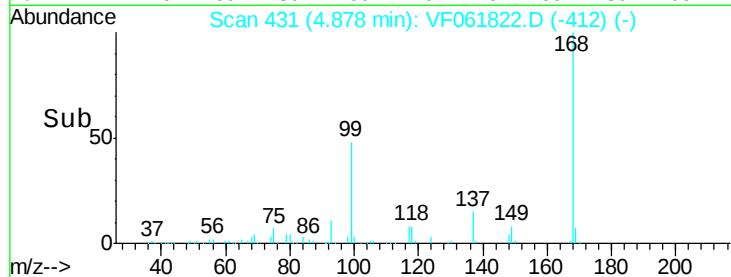
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 5.381 ug/l

RT: 0.96 min Scan# 34

Delta R.T. 0.00 min

Lab File: VF061822.D

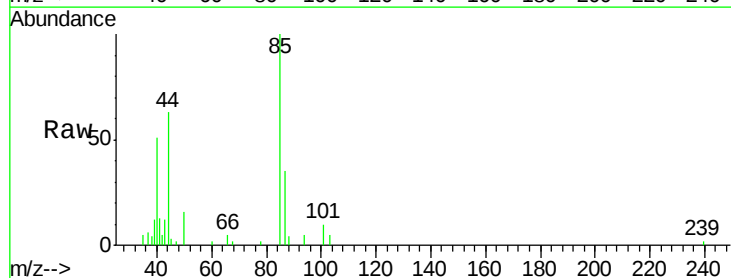
Acq: 4 Mar 2019 16:04

Tgt Ion: 85 Resp: 20215

Ion Ratio Lower Upper

85 100

87 35.3 16.1 48.2



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

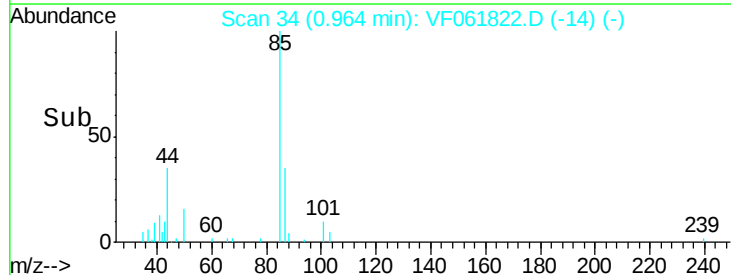
6000

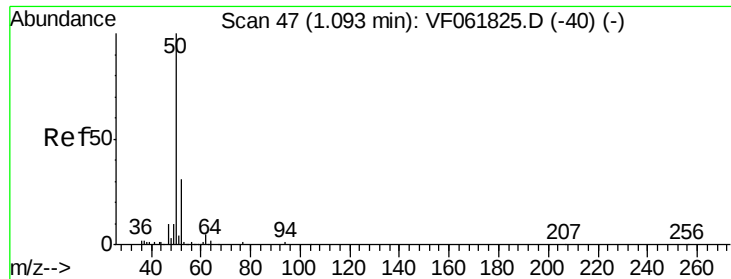
4000

2000

0

Time--> 0.90 1.00 1.10





#3

Chloromethane

Concen: 5.540 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 21838

Ion Ratio Lower Upper

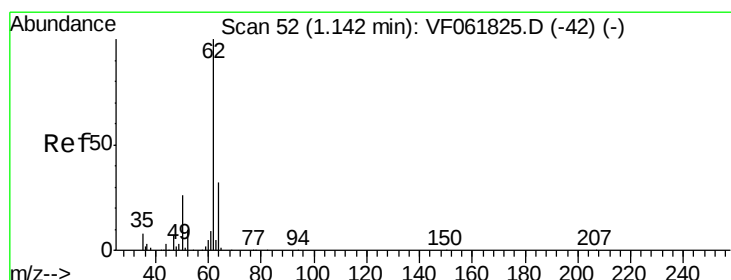
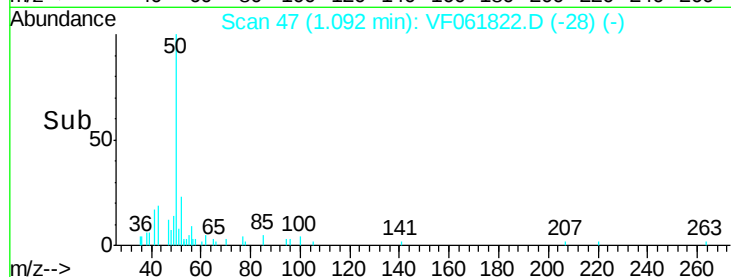
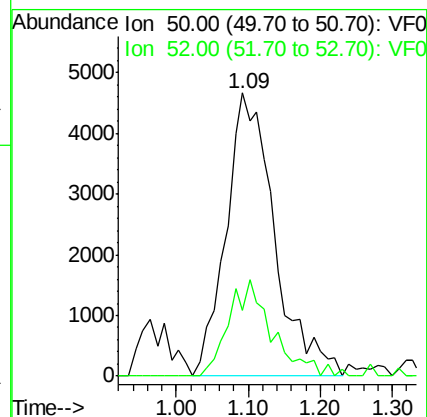
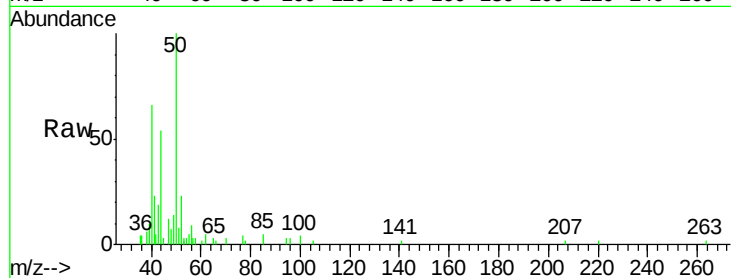
50 100

52 23.4 26.2 39.4#

Manual Integrations
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#4

Vinyl Chloride

Concen: 5.205 ug/l

RT: 1.14 min Scan# 52

Delta R.T. 0.00 min

Lab File: VF061822.D

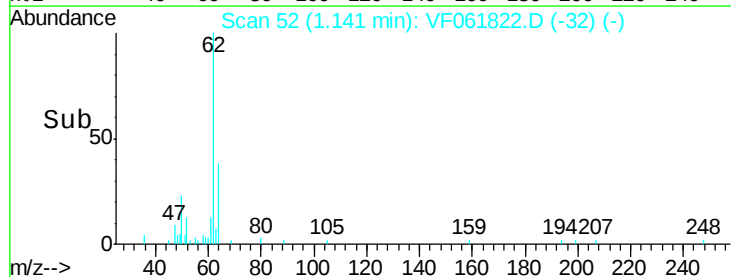
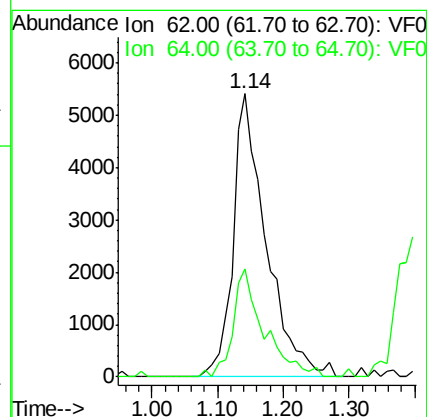
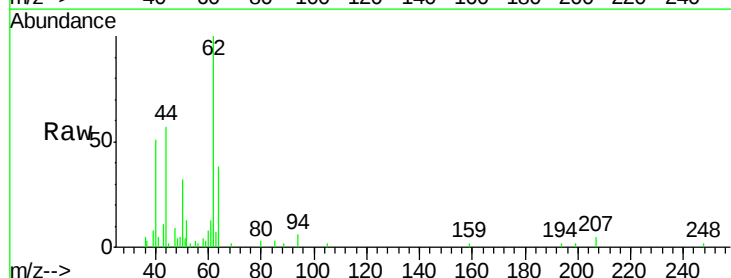
Acq: 4 Mar 2019 16:04

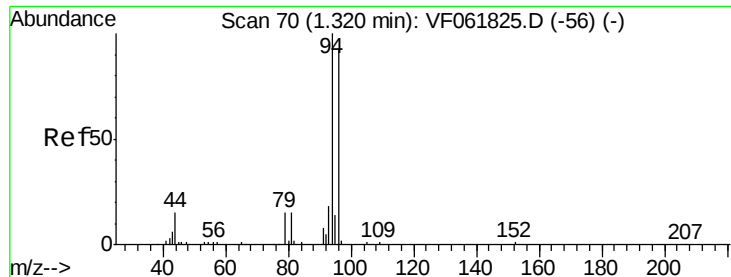
Tgt Ion: 62 Resp: 19074

Ion Ratio Lower Upper

62 100

64 38.3 27.5 41.3





#5

Bromomethane

Concen: 5.646 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 14238

Ion Ratio Lower Upper

94 100

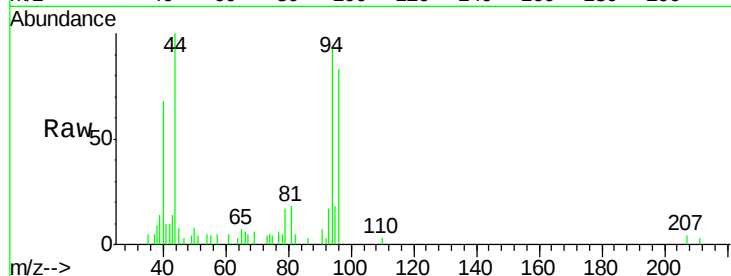
96 89.1 74.6 112.0

Manual Integrations

APPROVED

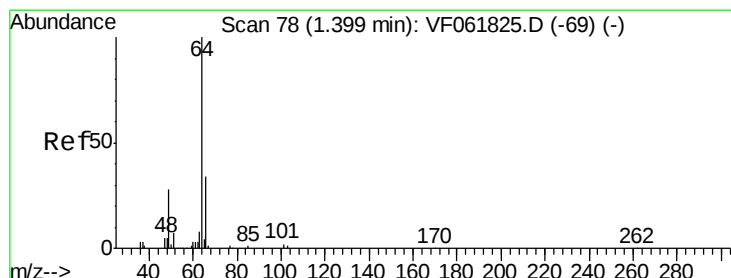
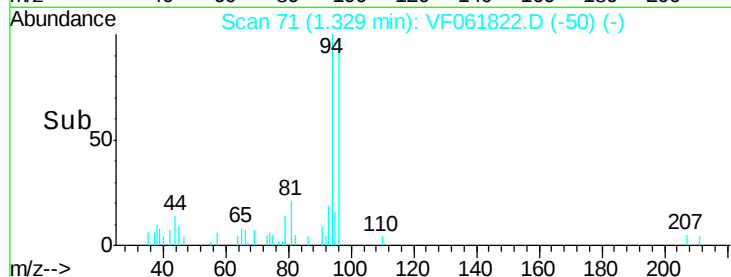
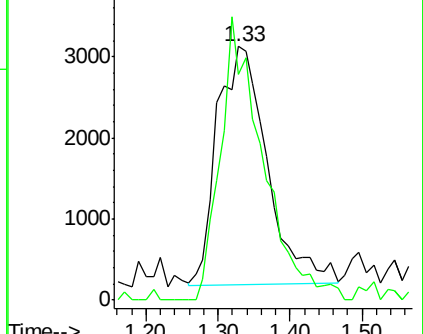
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 4.996 ug/l

RT: 1.40 min Scan# 78

Delta R.T. 0.00 min

Lab File: VF061822.D

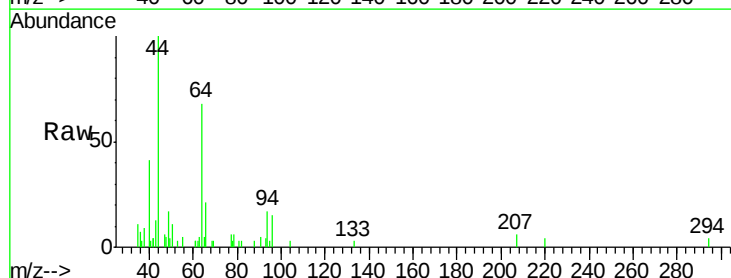
Acq: 4 Mar 2019 16:04

Tgt Ion: 64 Resp: 9022

Ion Ratio Lower Upper

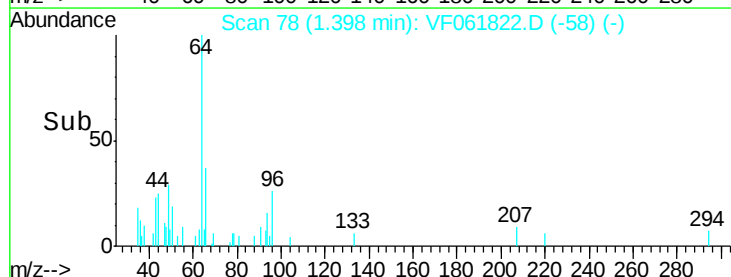
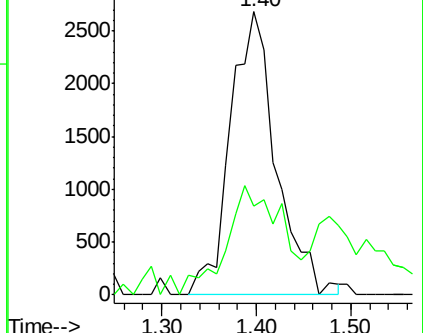
64 100

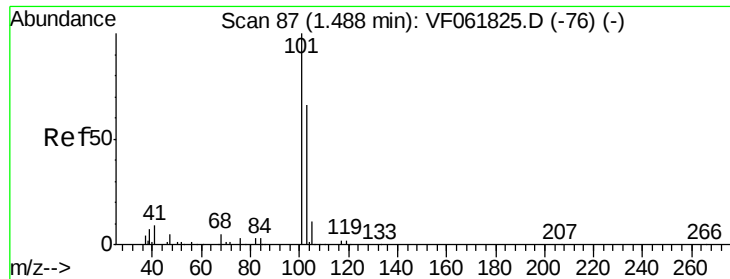
66 31.4 27.9 41.9



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

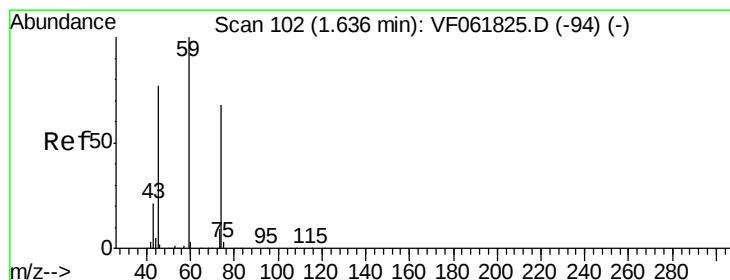
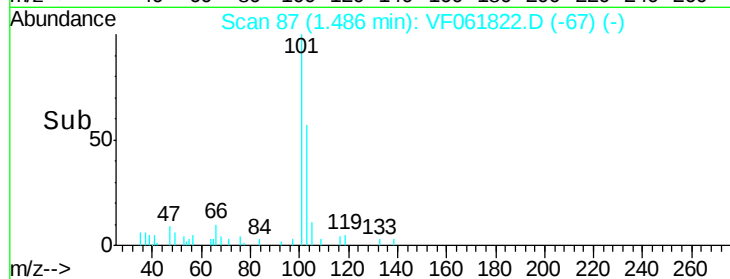
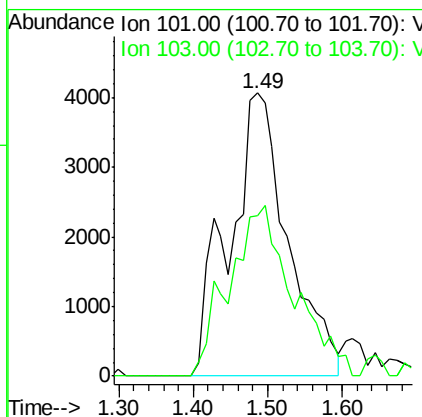
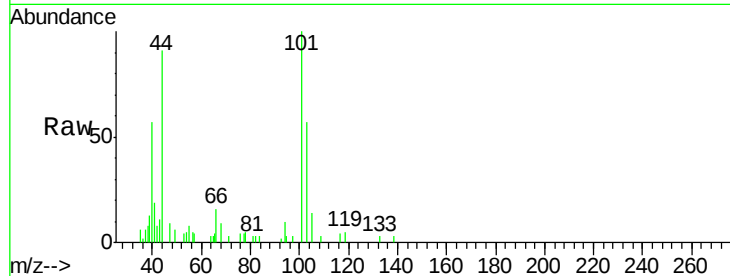
Trichlorofluoromethane
Concen: 5.071 ug/l m
RT: 1.49 min Scan# 87
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
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ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.9	49.3	73.9

Manual Integrations
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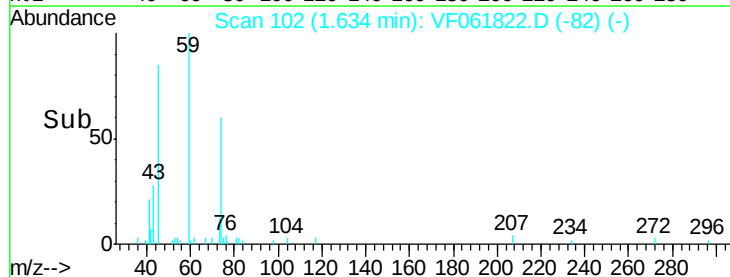
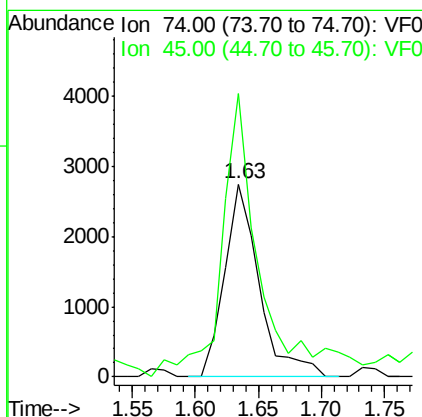
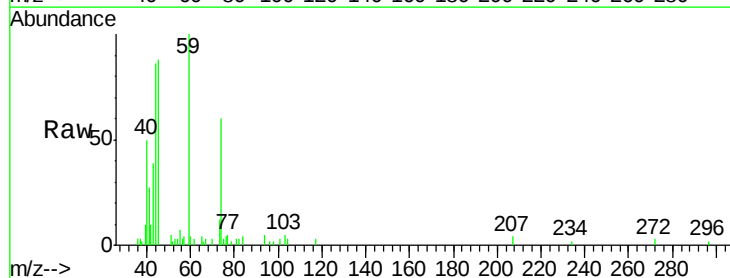
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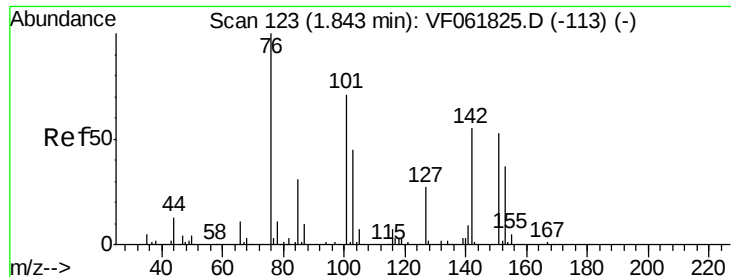


#8

Diethyl Ether
Concen: 4.695 ug/l
RT: 1.63 min Scan# 102
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
74	100		
45	146.8	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.435 ug/l

RT: 1.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

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MSVOA_F

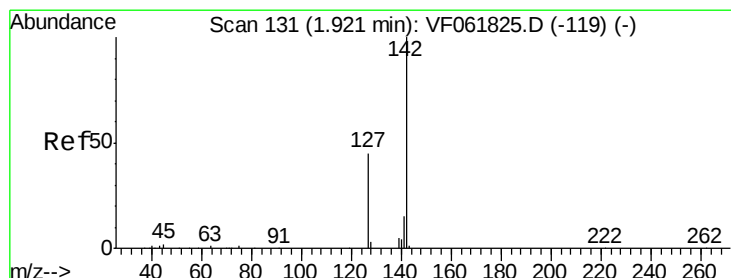
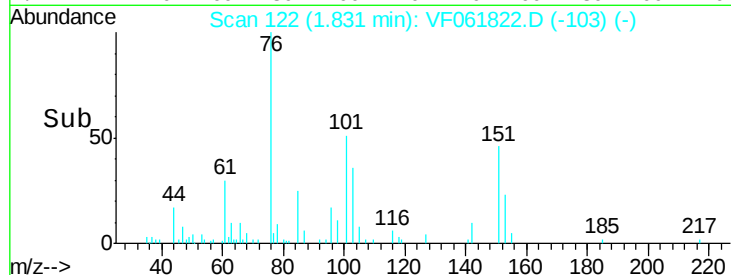
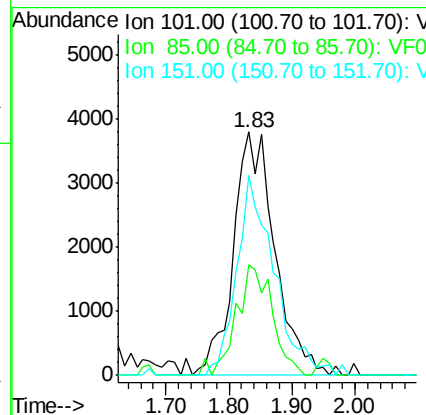
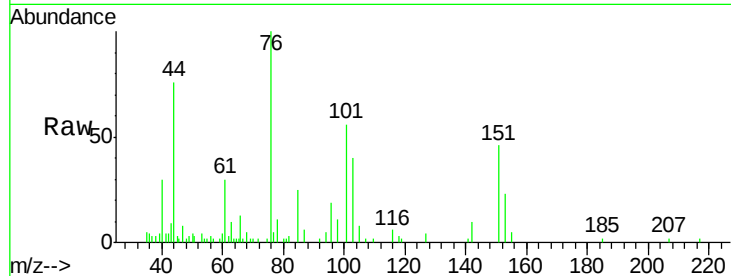
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
85	45.2	29.8	44.6#
151	82.0	56.3	84.5

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#10

Methyl Iodide

Concen: 5.259 ug/l m

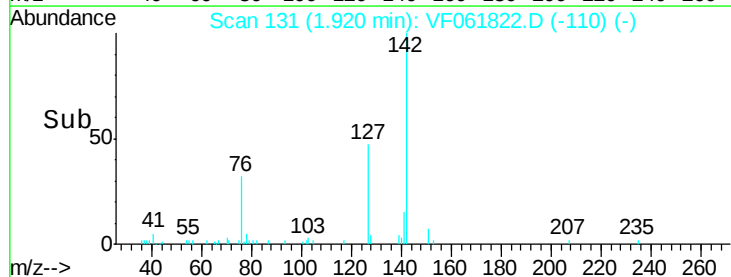
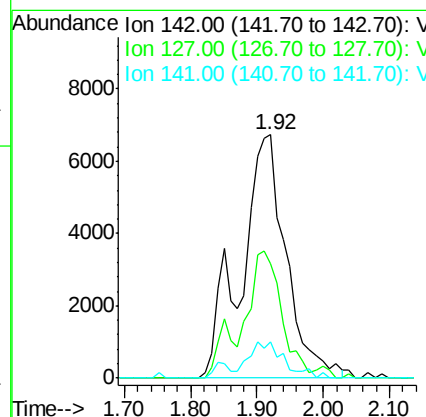
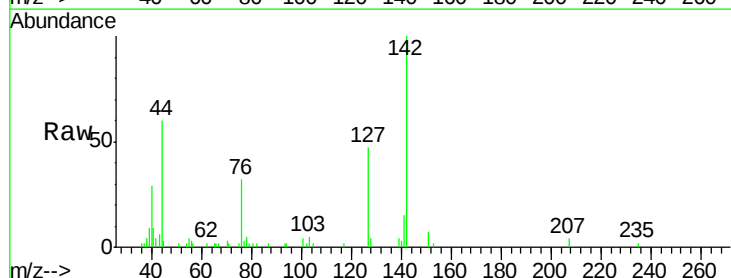
RT: 1.92 min Scan# 131

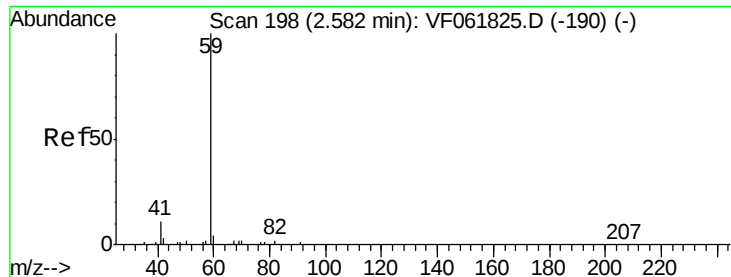
Delta R.T. 0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
142	100		
127	46.7	36.6	55.0
141	14.7	11.0	16.6





#11

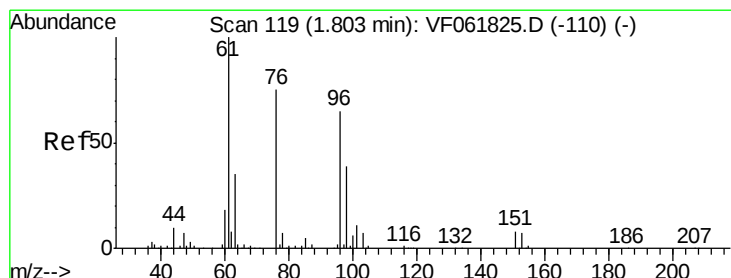
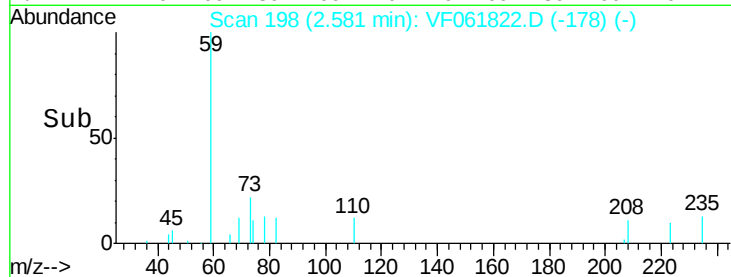
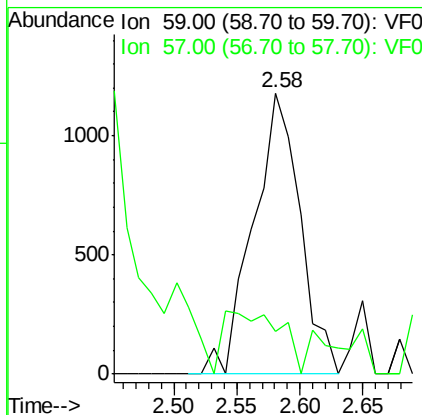
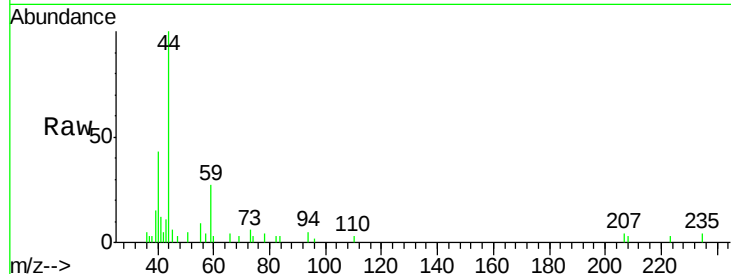
Tert butyl alcohol
Concen: 21.889 ug/l
RT: 2.58 min Scan# 198
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 59 Resp: 3039
Ion Ratio Lower Upper
59 100
57 15.3 12.5 18.7

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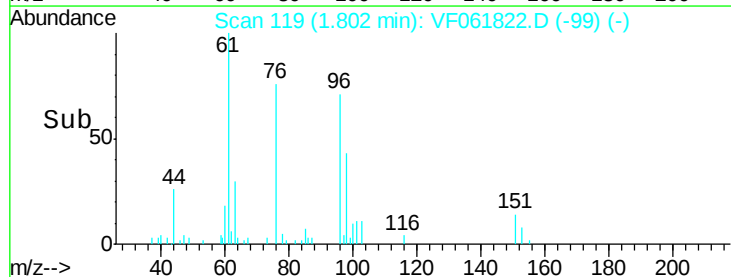
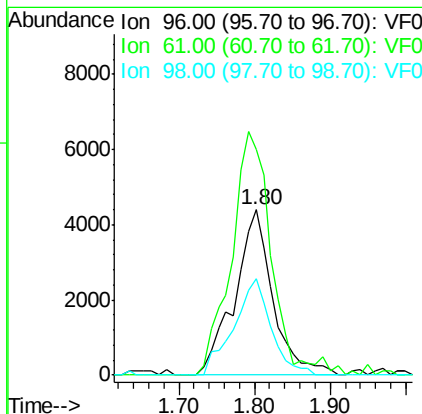
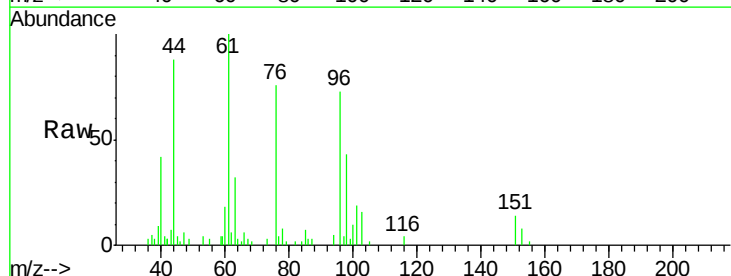
MMDadoda
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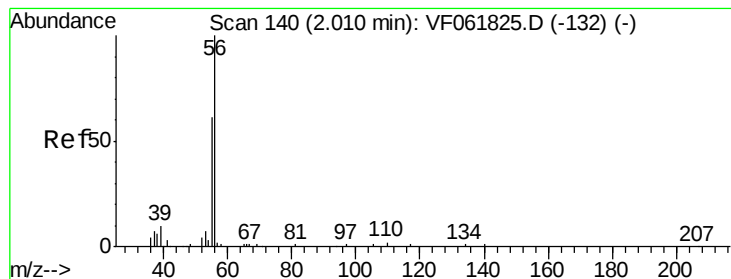


#12

1,1-Dichloroethene
Concen: 5.518 ug/l
RT: 1.80 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 96 Resp: 15468
Ion Ratio Lower Upper
96 100
61 136.6 122.6 184.0
98 58.1 47.2 70.8





#13

Acrolein

Concen: 29.428 ug/l

RT: 2.00 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 5135

Ion Ratio Lower Upper

56 100

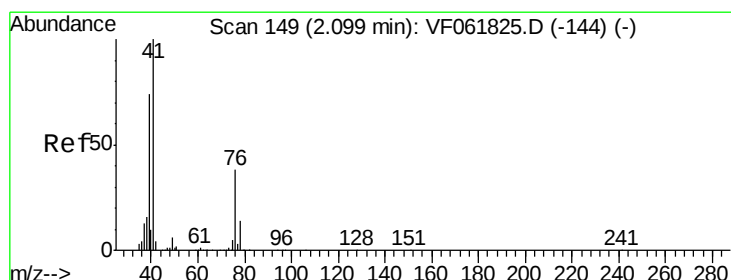
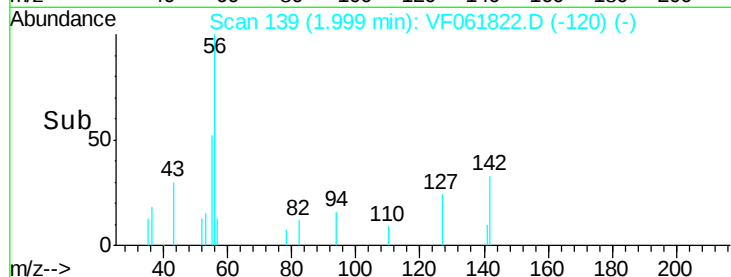
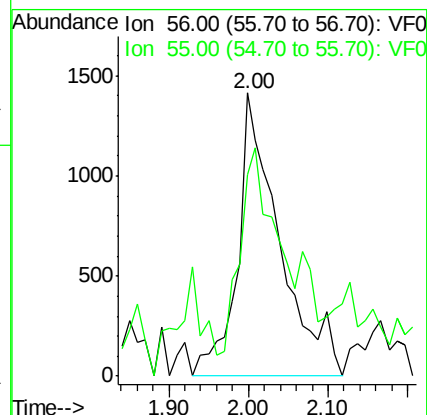
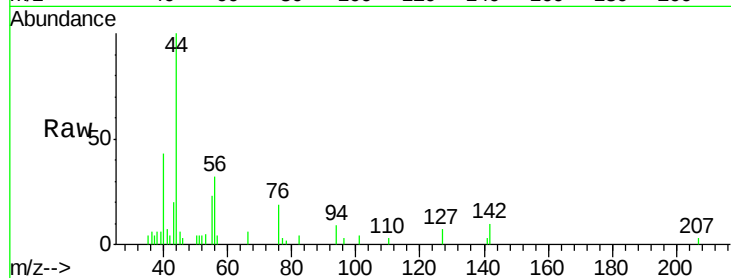
55 71.1 55.0 82.6

Manual Integrations

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#14

Allyl chloride

Concen: 4.930 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

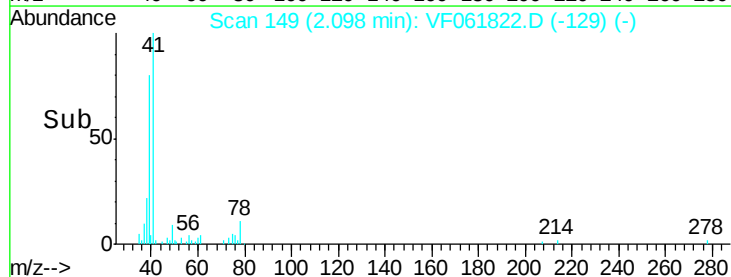
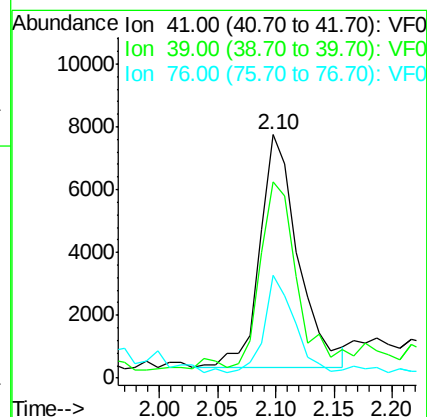
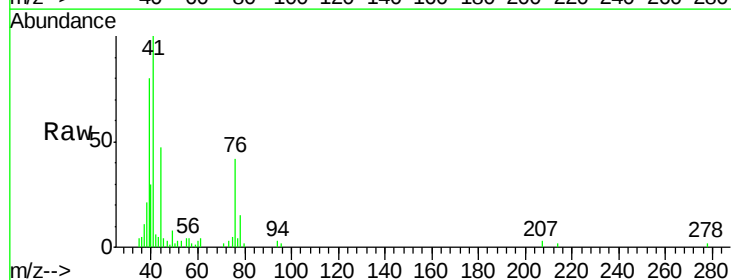
Tgt Ion: 41 Resp: 16957

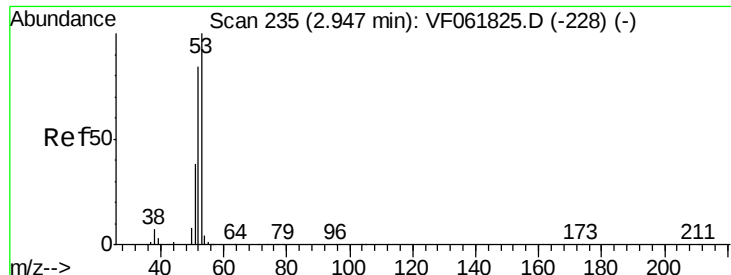
Ion Ratio Lower Upper

41 100

39 80.4 61.6 92.4

76 42.3 30.3 45.5





#15

Acrylonitrile

Concen: 24.214 ug/l

RT: 2.96 min Scan# 236

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

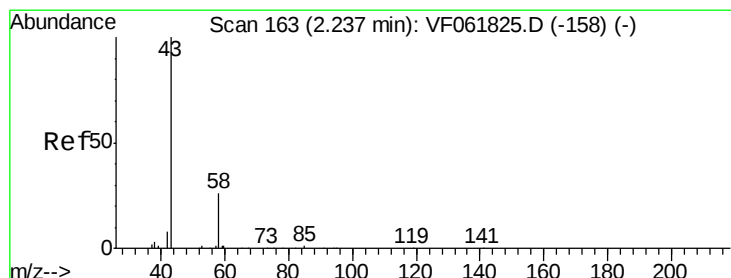
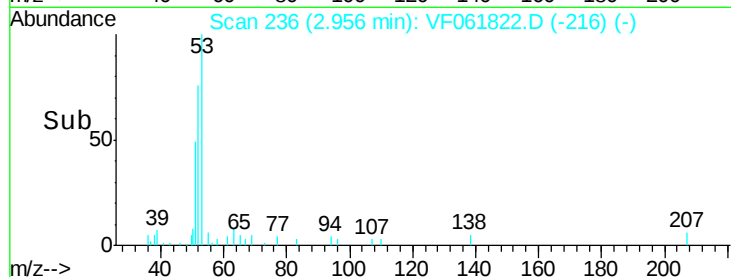
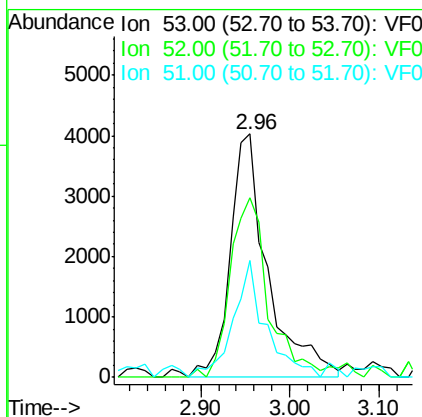
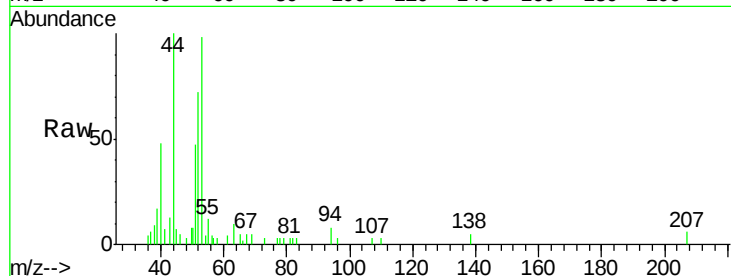
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	11924
Ion	Ratio	Lower	Upper
53	100		
52	73.9	64.6	97.0
51	47.8	29.8	44.8#

Manual Integrations
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#16

Acetone

Concen: 27.777 ug/l

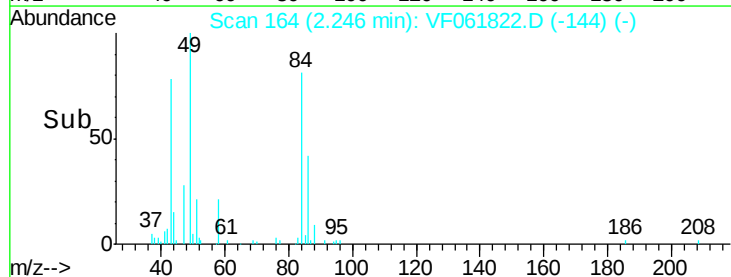
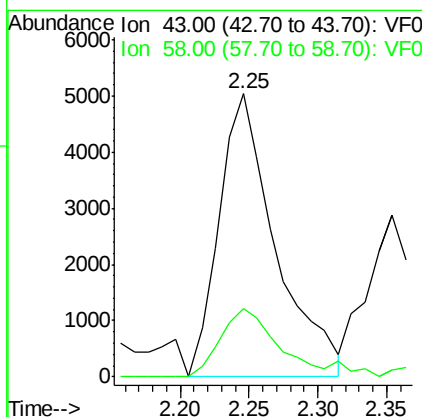
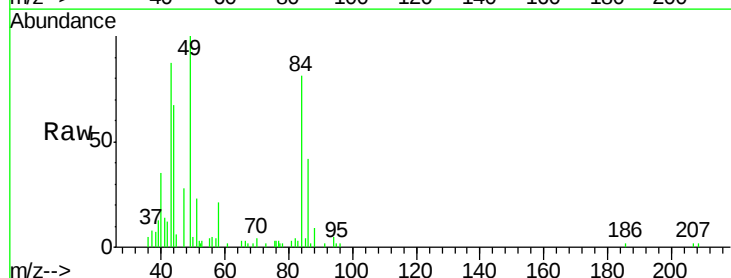
RT: 2.25 min Scan# 164

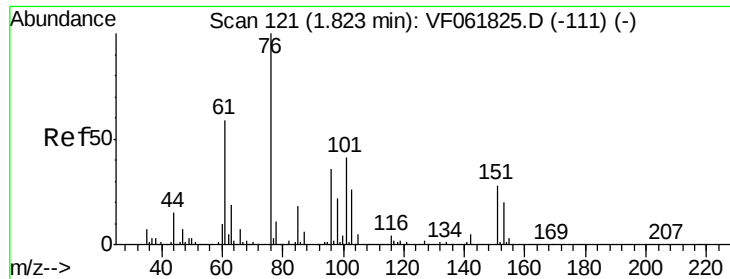
Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion:	43	Resp:	14297
Ion	Ratio	Lower	Upper
43	100		
58	24.2	22.9	34.3





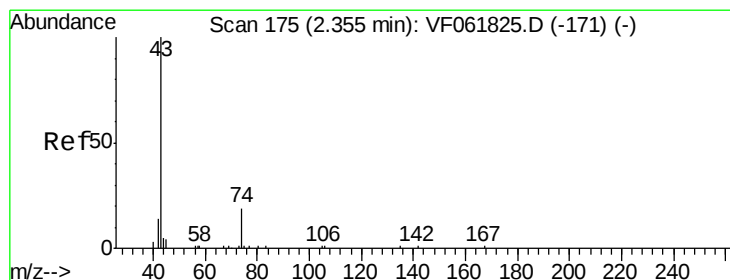
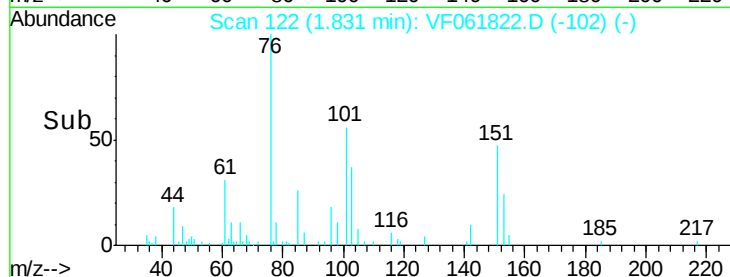
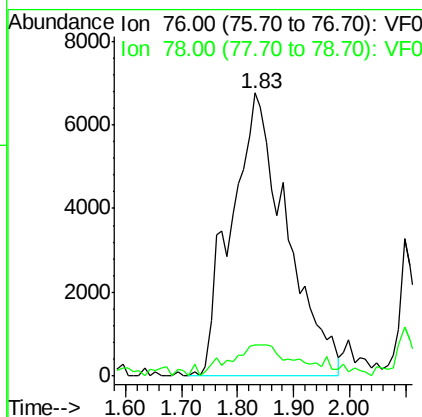
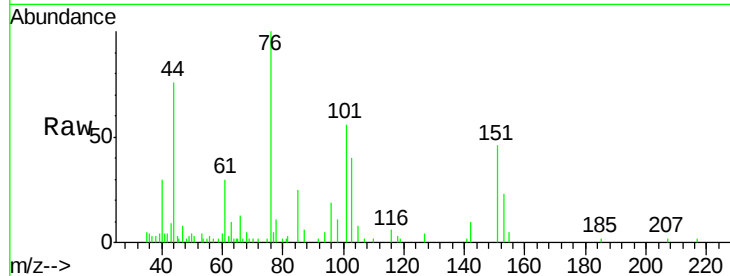
#17
Carbon Disulfide
Concen: 5.288 ug/l
RT: 1.83 min Scan# 122
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.1	7.9	11.9

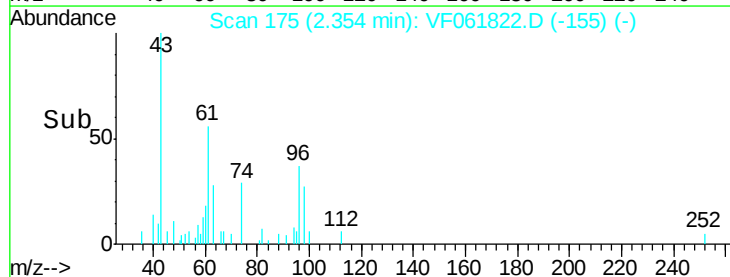
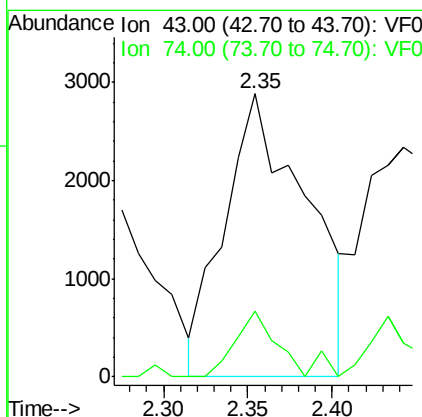
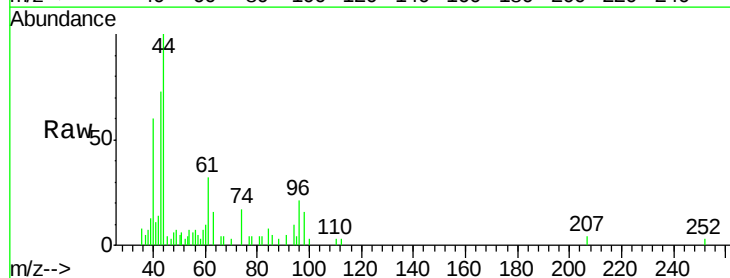
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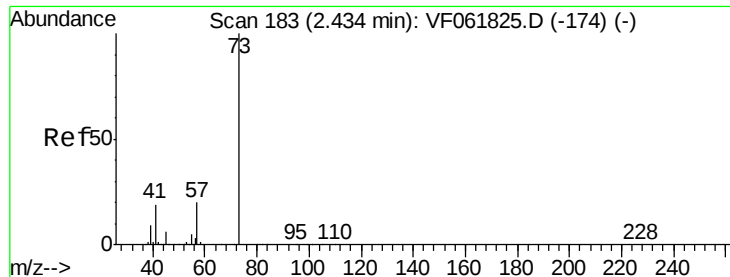
MMDadoda
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#18
Methyl Acetate
Concen: 8.440 ug/l m
RT: 2.35 min Scan# 175
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.2	14.6	21.8#





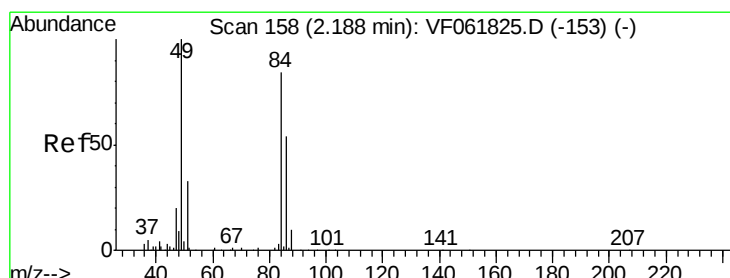
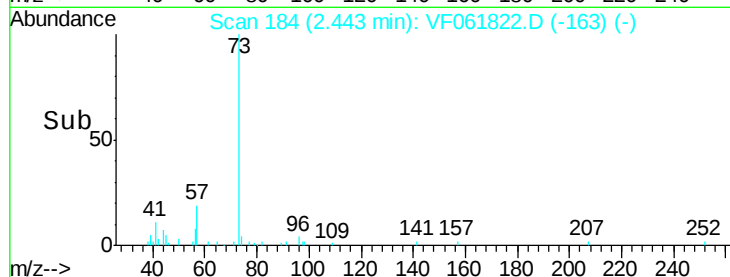
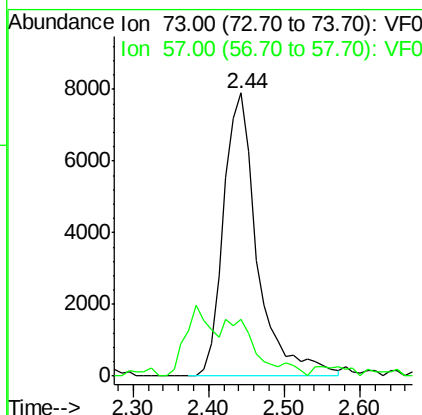
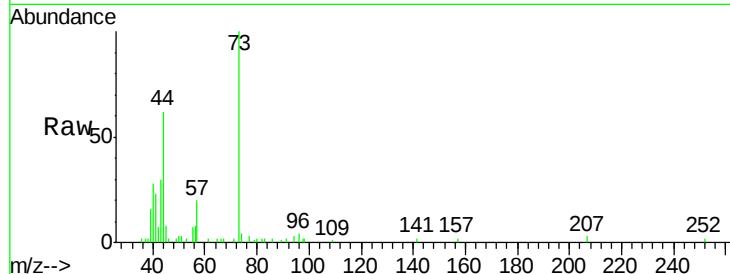
#19
Methvl tert-butvl Ether
Concen: 5.120 ug/l
RT: 2.44 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 24529
Ion Ratio Lower Upper
73 100
57 20.2 15.8 23.8

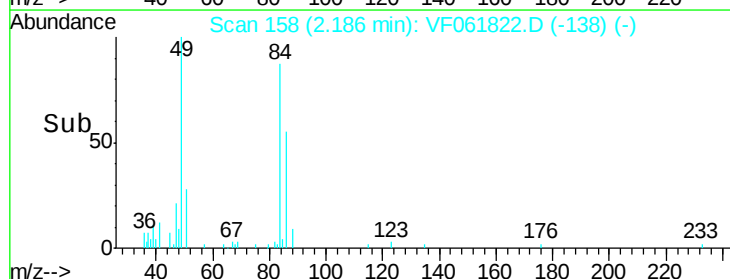
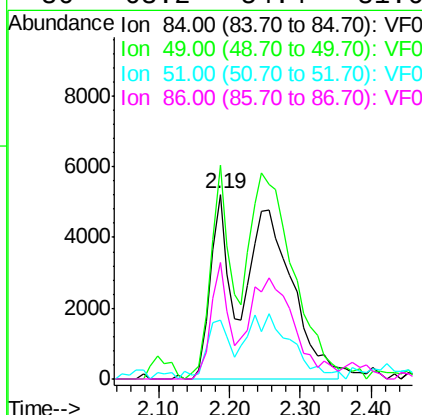
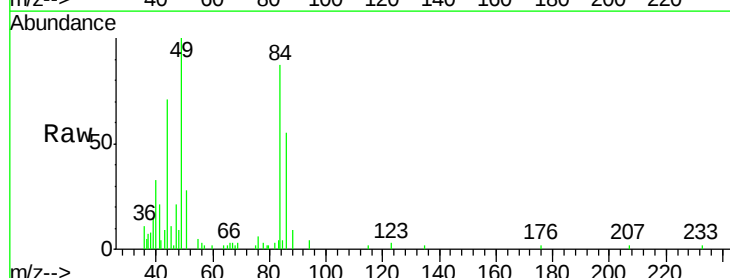
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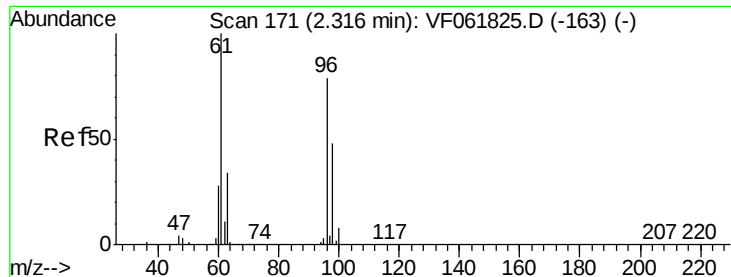
MMDadoda
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#20
Methylene Chloride
Concen: 9.569 ug/l m
RT: 2.19 min Scan# 158
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 84 Resp: 29751
Ion Ratio Lower Upper
84 100
49 115.6 101.8 152.8
51 31.8 31.1 46.7
86 63.2 54.4 81.6





#21

trans-1,2-Dichloroethene

Concen: 5.225 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

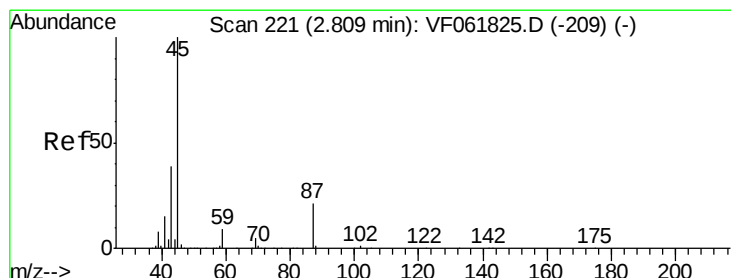
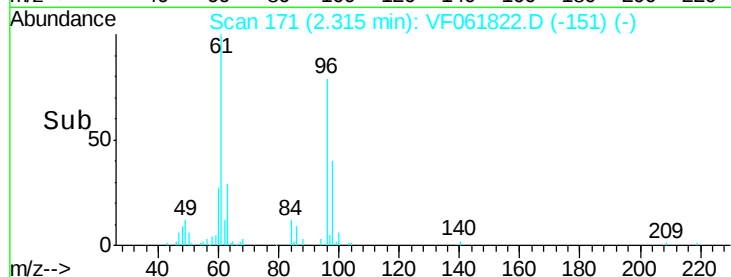
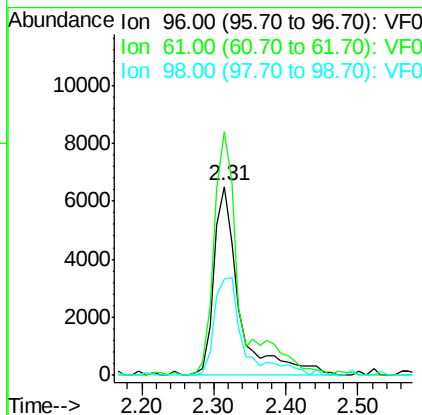
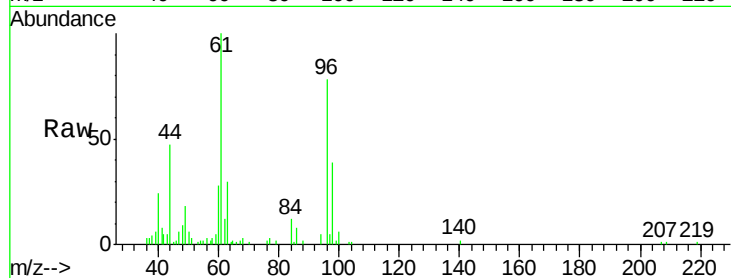
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	15922
Ion	Ratio	Lower	Upper
96	100		
61	128.9	108.2	162.4
98	50.7	52.2	78.2#

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#22

Diisopropyl ether

Concen: 5.053 ug/l

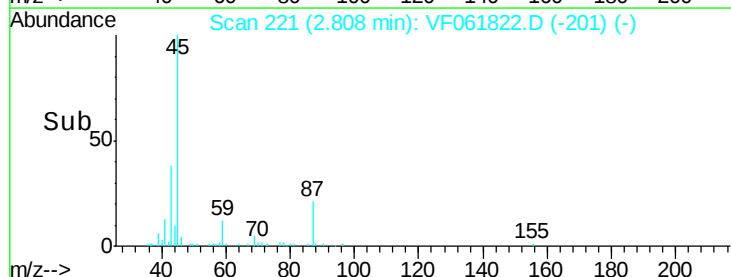
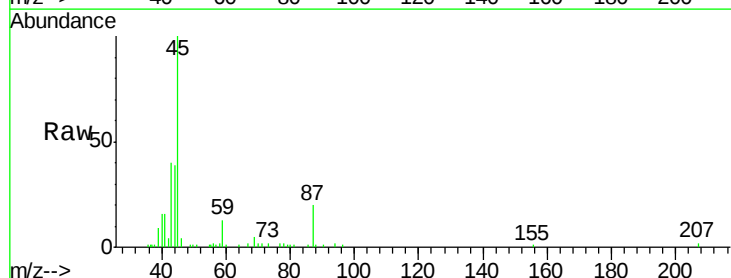
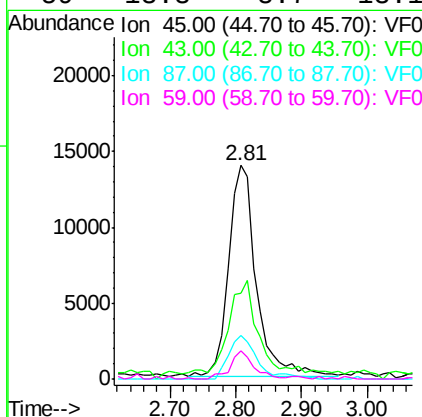
RT: 2.81 min Scan# 221

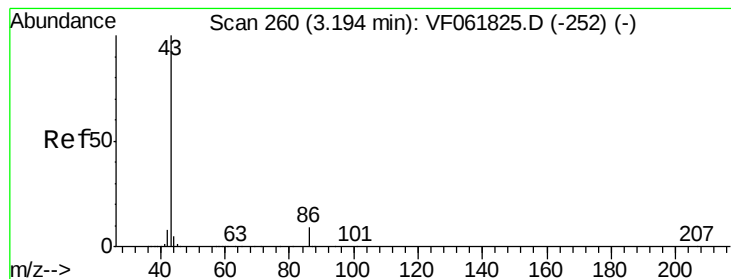
Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion:	45	Resp:	41723
Ion	Ratio	Lower	Upper
45	100		
43	40.2	31.4	47.2
87	20.2	16.3	24.5
59	13.3	8.7	13.1#





#23

Vinyl Acetate

Concen: 22.127 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 89237

Ion Ratio Lower Upper

43 100

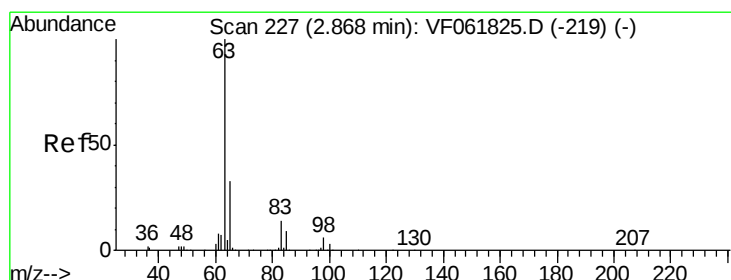
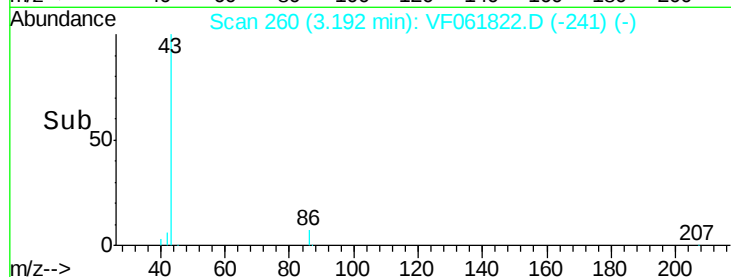
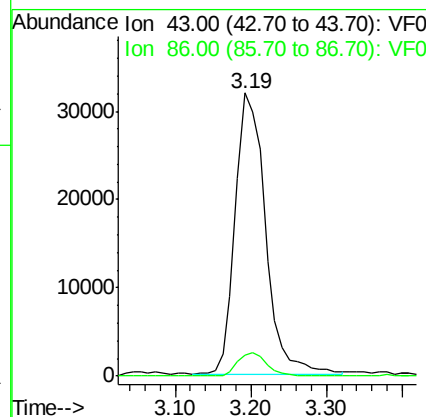
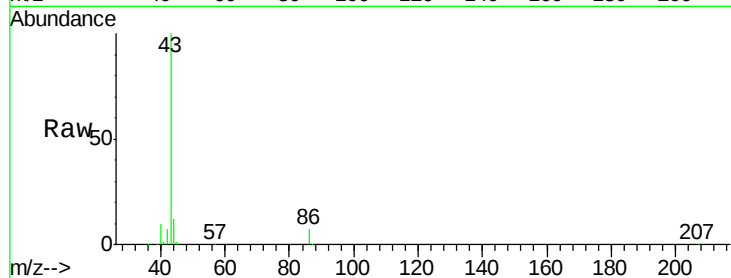
86 7.3 7.5 11.3#

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#24

1,1-Dichloroethane

Concen: 4.853 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

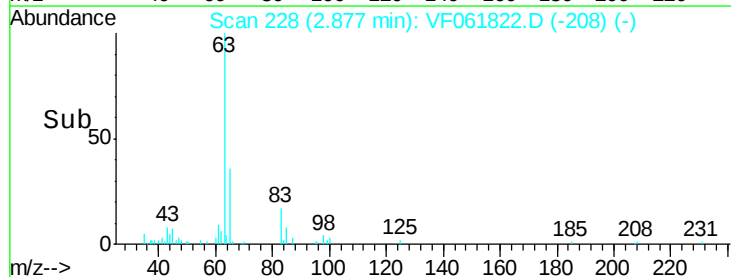
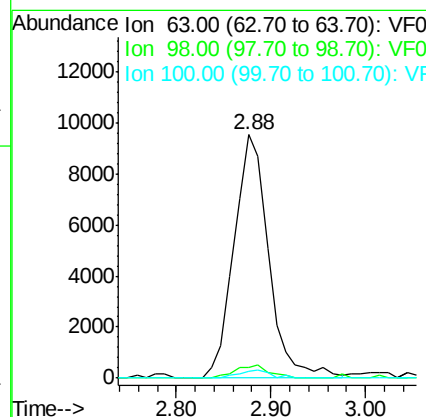
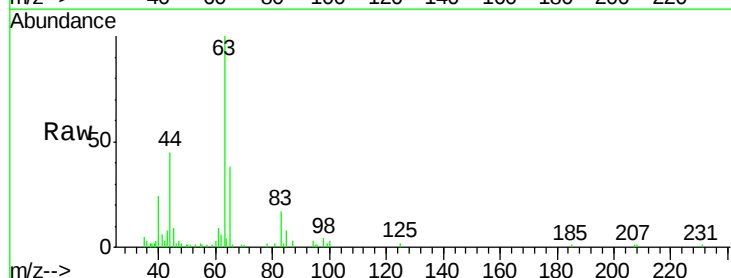
Tgt Ion: 63 Resp: 24251

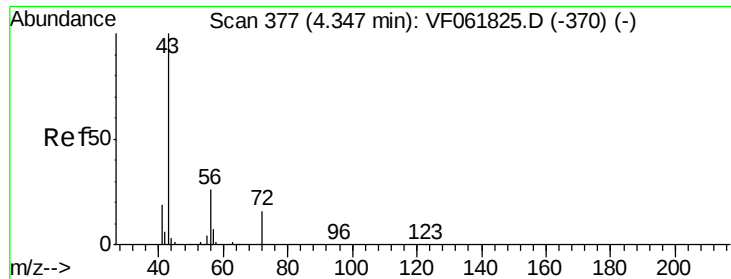
Ion Ratio Lower Upper

63 100

98 4.4 2.8 8.3

100 2.8 1.8 5.4





#25

2-Butanone

Concen: 22.885 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tot Ion: 43 Resp: 25729

Ion Ratio Lower Upper

43 100

72 24.5 17.1 25.7

Instrument :

MSVOA_F

ClientSampleId :

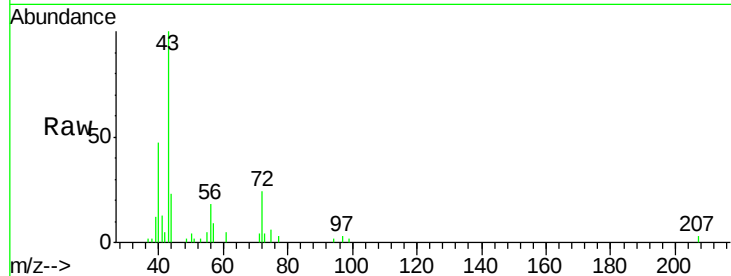
VSTDIC005

Manual Integrations

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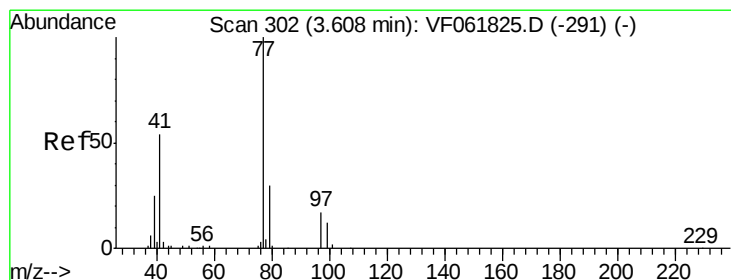
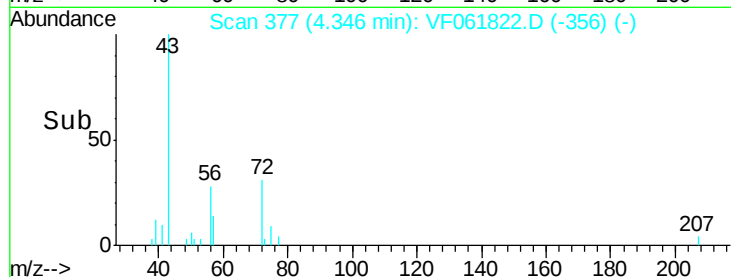
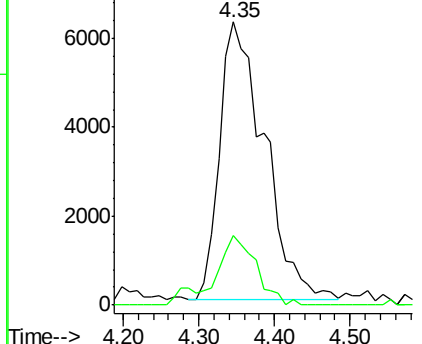
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 5.618 ug/l

RT: 3.62 min Scan# 303

Delta R.T. 0.00 min

Lab File: VF061822.D

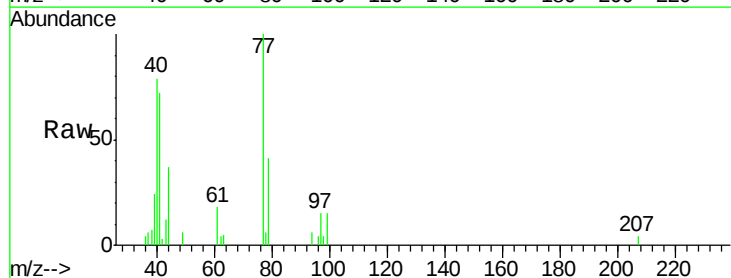
Acq: 4 Mar 2019 16:04

Tgt Ion: 77 Resp: 11892

Ion Ratio Lower Upper

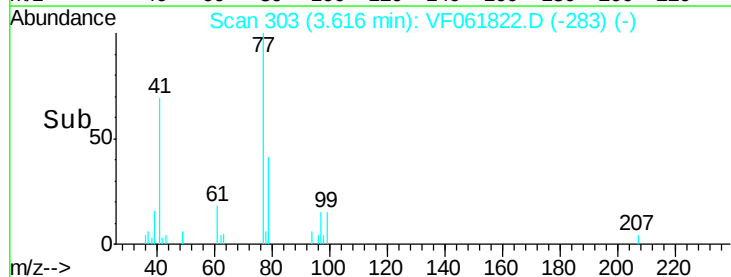
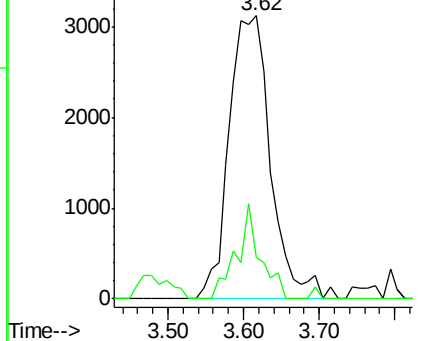
77 100

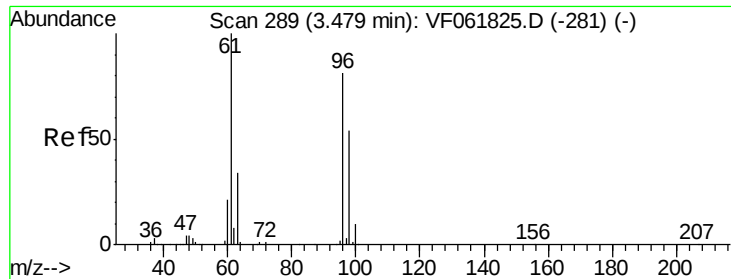
97 14.7 11.7 35.0



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

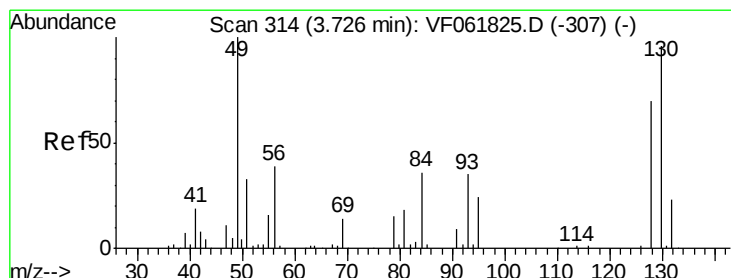
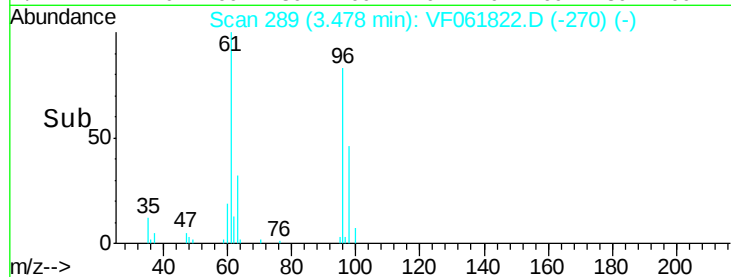
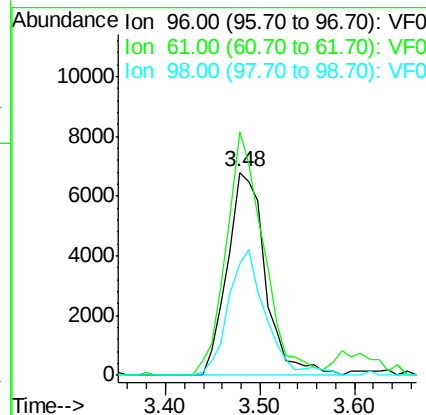
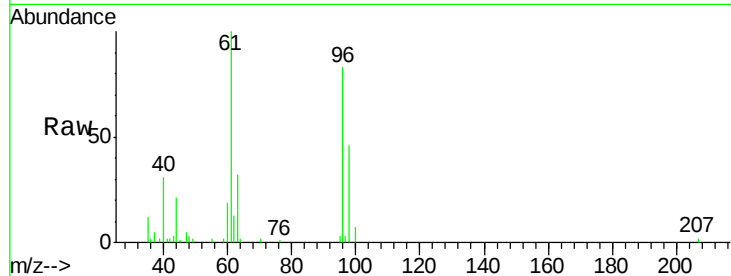
cis-1,2-Dichloroethene
Concen: 4.726 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
96	100	18905		
61	119.9		0.0	241.6
98	55.0		0.0	130.2

Manual Integrations
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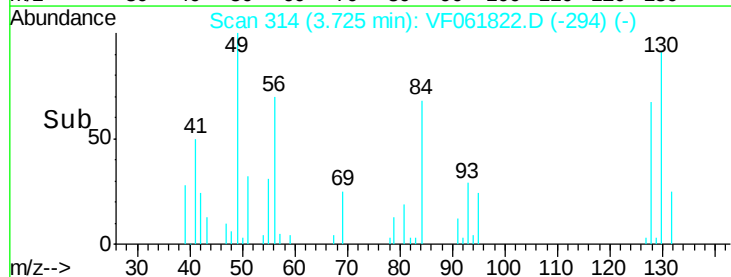
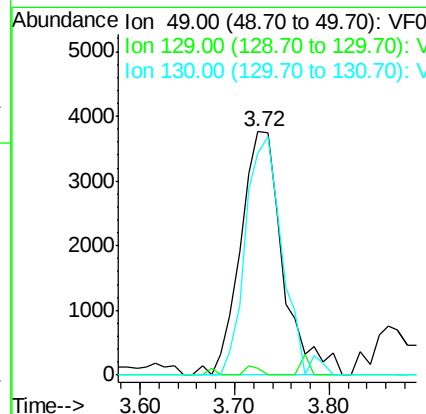
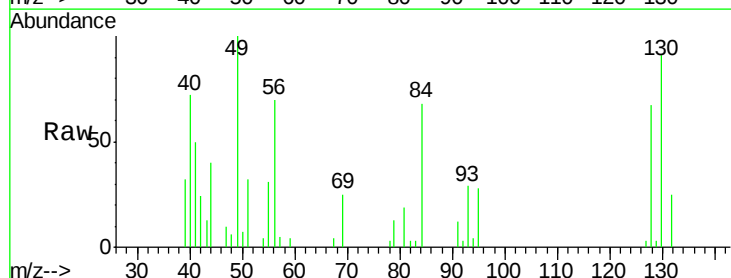
MMDadoda
3/5/2019 10:47:07 AM

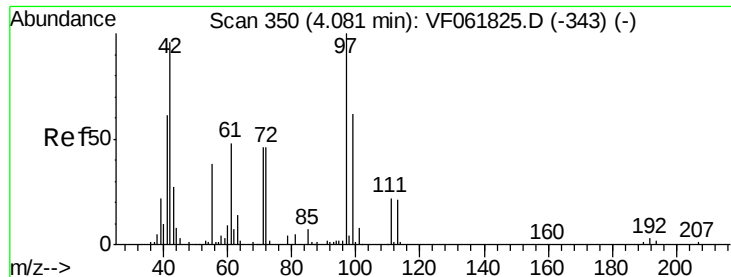


#28

Bromochloromethane
Concen: 4.871 ug/l
RT: 3.72 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	11679		
129	3.0		0.0	3.4
130	91.1		77.7	116.5





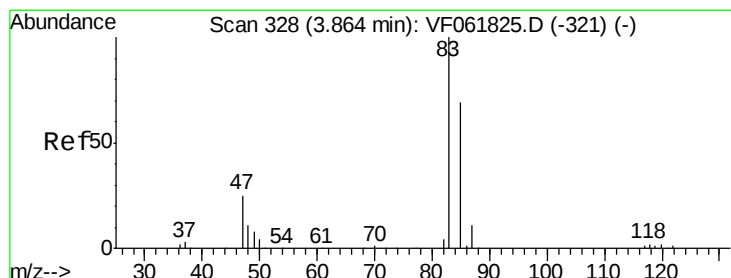
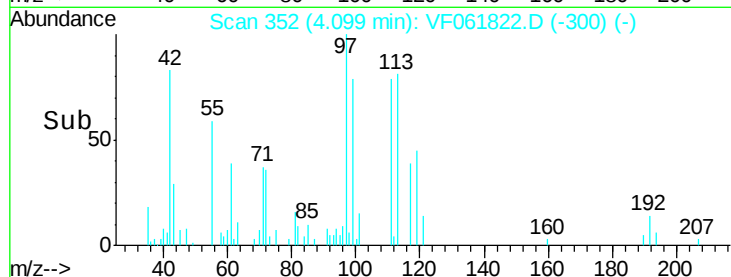
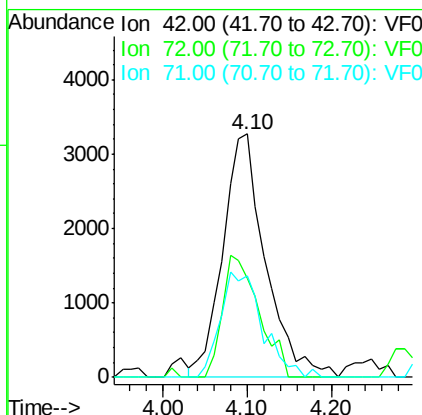
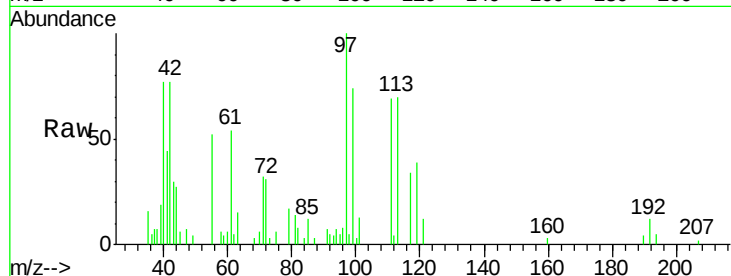
#29
Tetrahydrofuran
Concen: 22.652 ug/l
RT: 4.10 min Scan# 352
Delta R.T. 0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
42	100	11575		
72	42.5		35.2	52.8
71	42.7		32.9	49.3

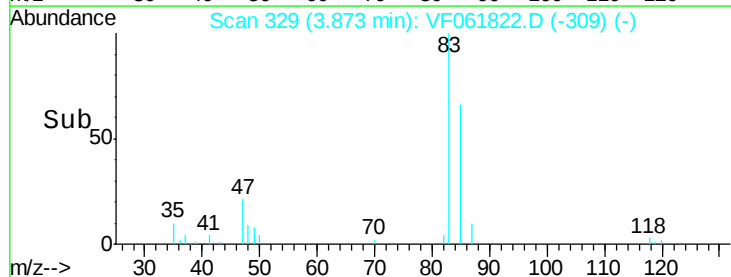
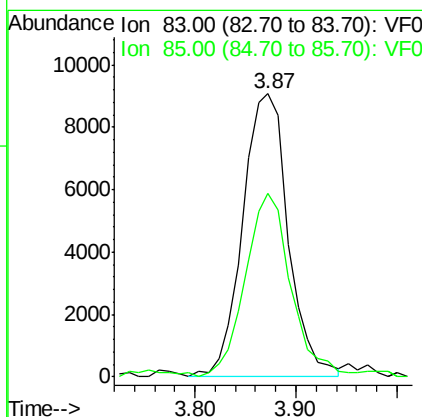
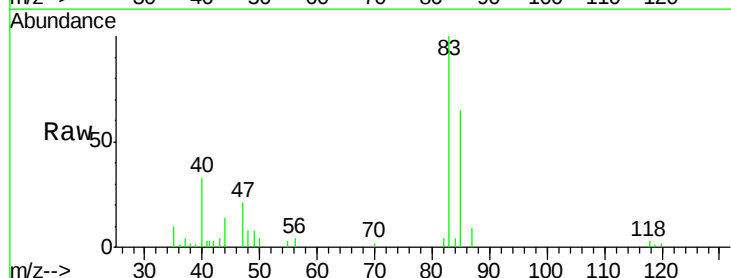
Manual Integrations
APPROVED

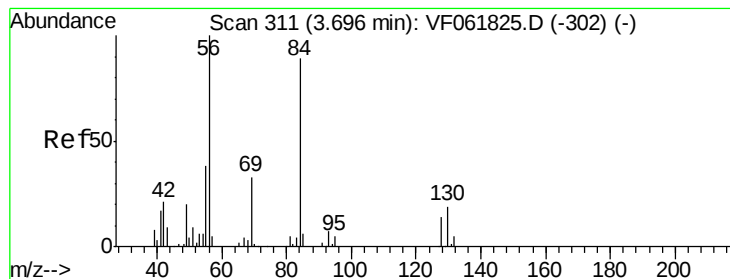
MMDadoda
3/5/2019 10:47:07 AM



#30
Chloroform
Concen: 5.020 ug/l
RT: 3.87 min Scan# 329
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	28528		
85	64.9		51.1	76.7





#31

Cyclohexane

Concen: 4.920 ug/l

RT: 3.70 min Scan# 311

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

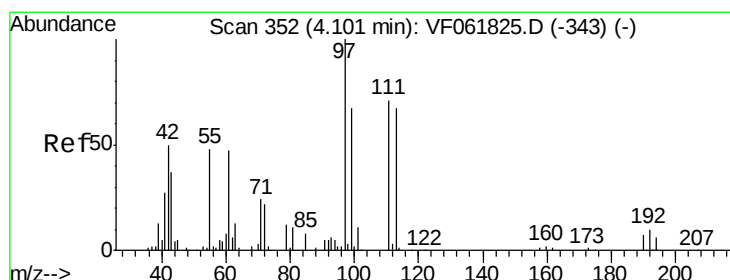
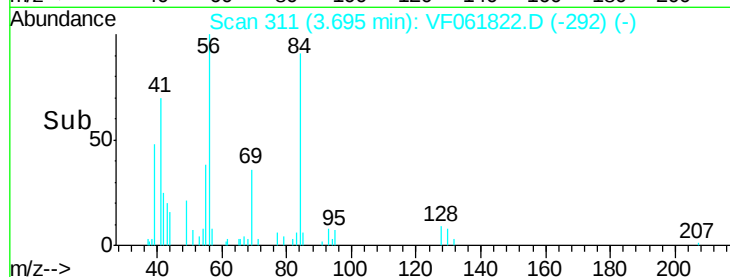
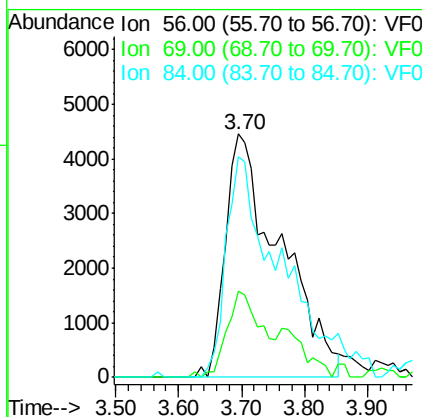
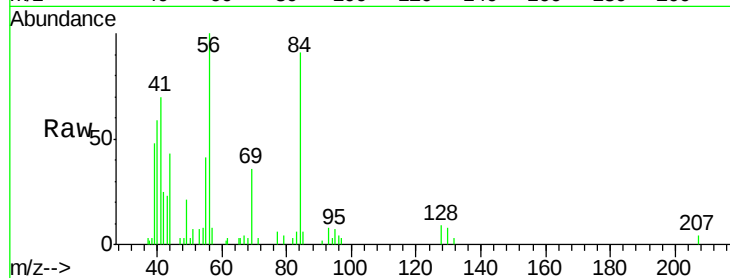
ClientSampleId :

VSTDIC005

Tot Ion:	56	Resp:	26613
Ion	Ratio	Lower	Upper
56	100		
69	35.7	23.8	35.8
84	90.8	68.6	103.0

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 5.013 ug/l

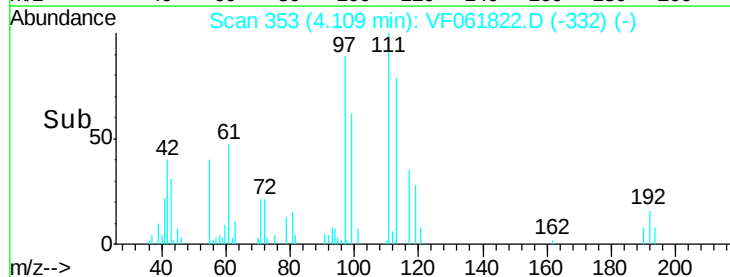
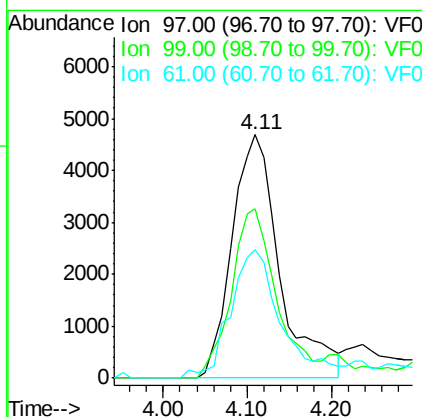
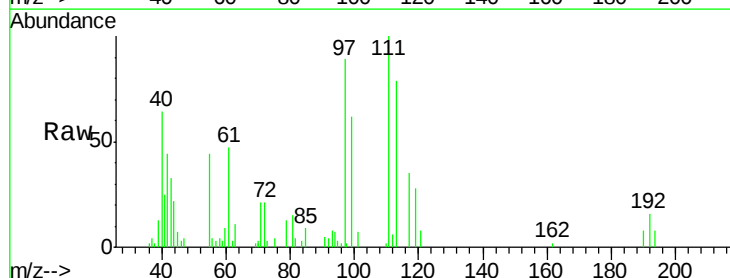
RT: 4.11 min Scan# 353

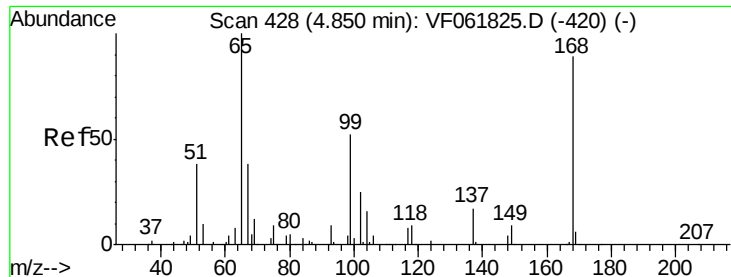
Delta R.T. 0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion:	97	Resp:	18661
Ion	Ratio	Lower	Upper
97	100		
99	68.1	52.2	78.2
61	51.3	39.2	58.8





#33

1,2-Dichloroethane-d4

Concen: 4.745 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 65 Resp: 11384

Ion Ratio Lower Upper

65 100

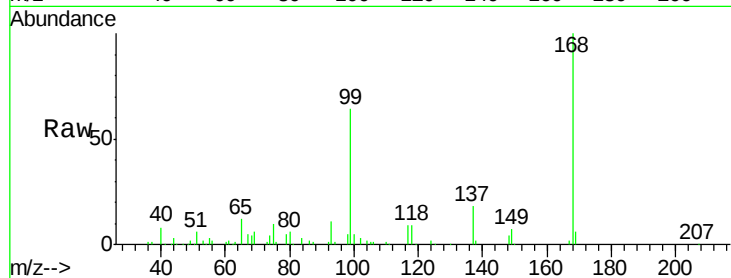
67 39.6 0.0 104.0

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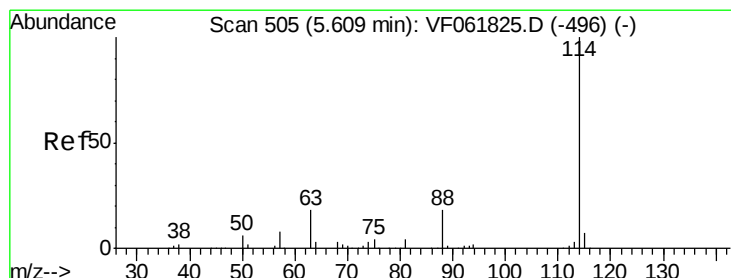
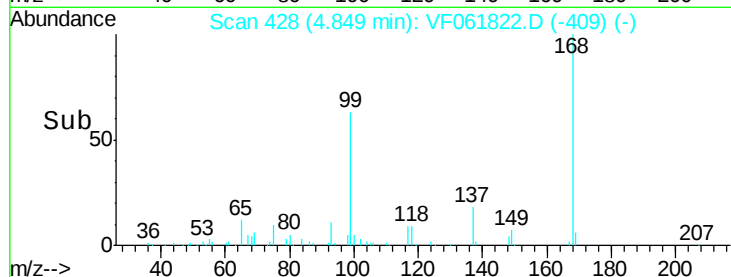
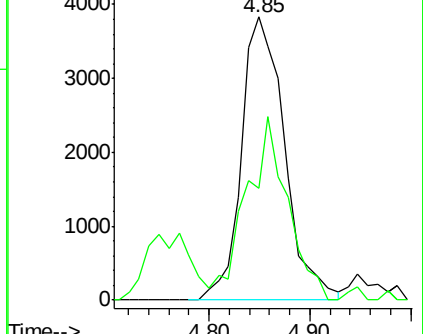
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Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

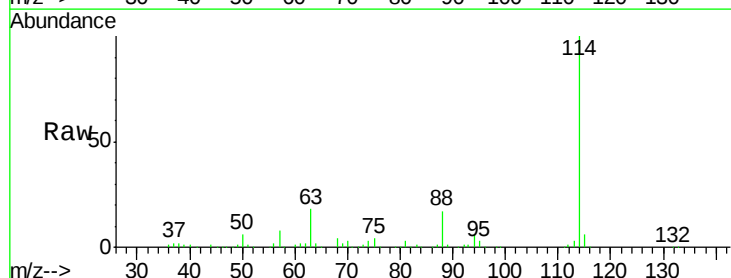
Tgt Ion: 114 Resp: 505976

Ion Ratio Lower Upper

114 100

63 17.7 0.0 36.6

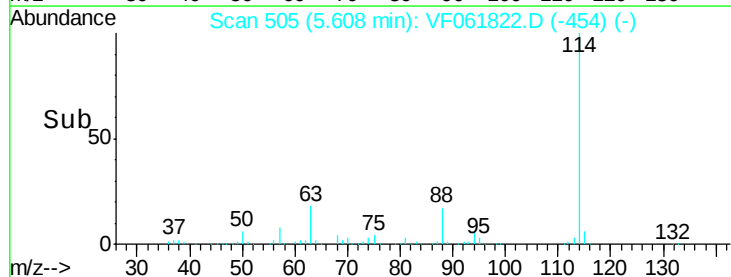
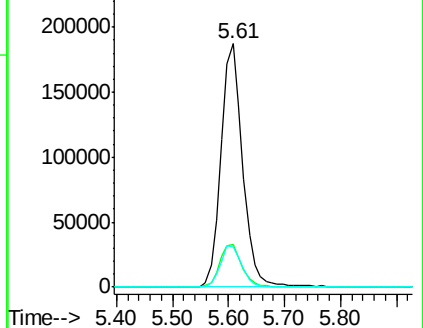
88 16.7 0.0 34.4

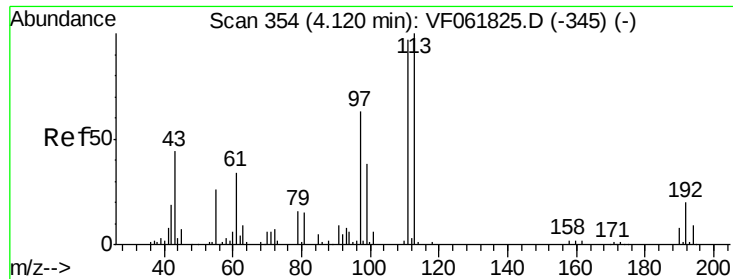


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





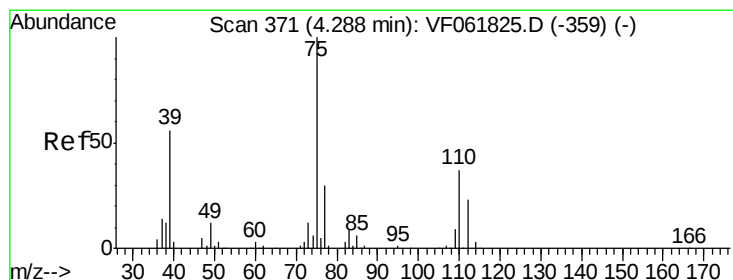
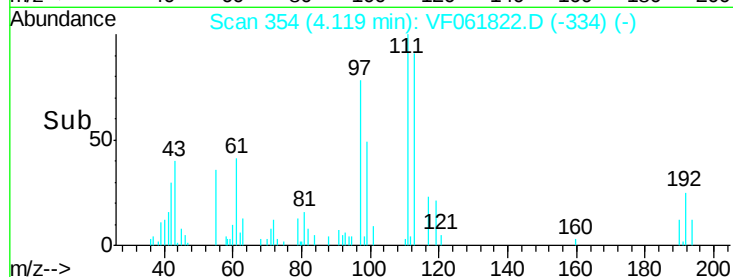
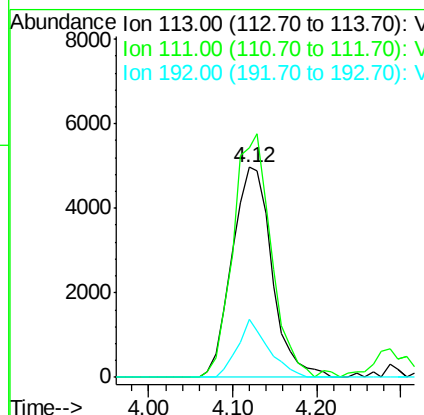
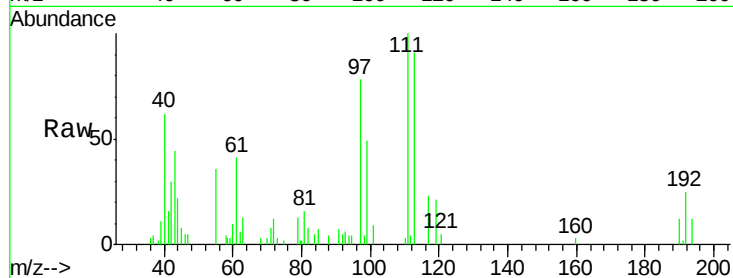
#35
 Dibromofluoromethane
 Concen: 4.392 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	109.7	78.8	118.2
192	27.4	13.4	20.0

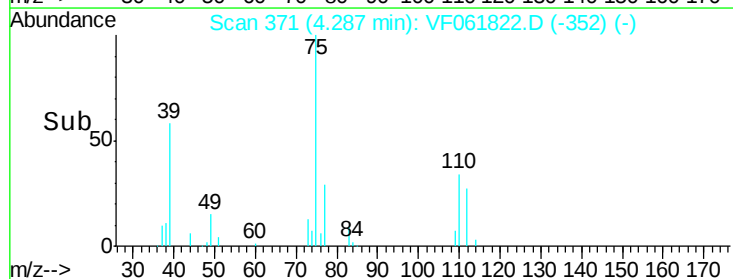
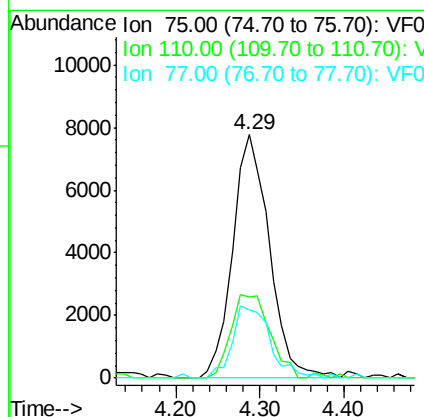
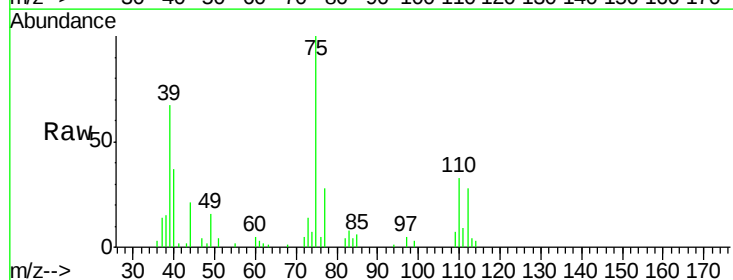
Manual Integrations
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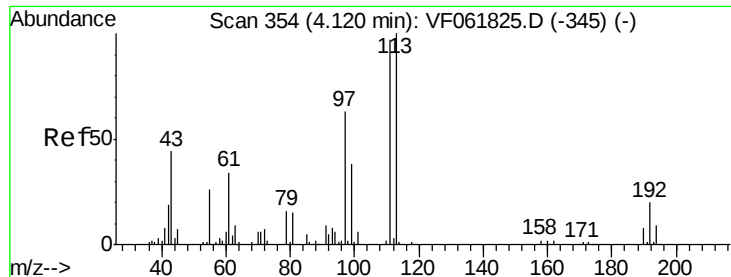
MMDadoda
 3/5/2019 10:47:07 AM



#36
 1,1-Dichloropropene
 Concen: 4.720 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.01 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.1	20.5	61.6
77	28.1	27.0	40.4





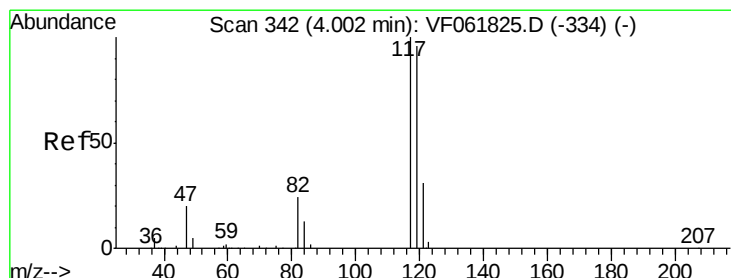
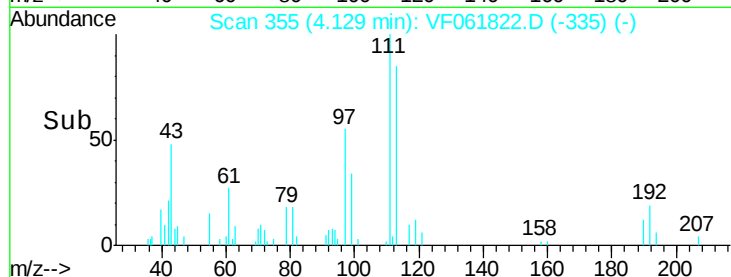
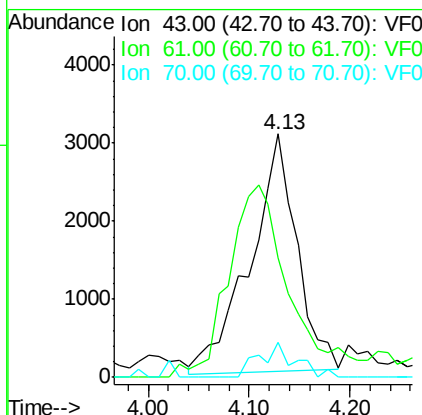
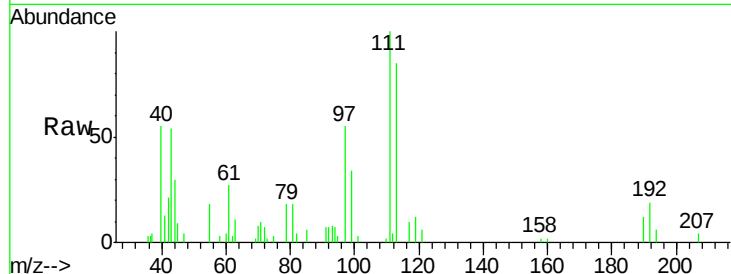
#37
Ethyl Acetate
Concen: 4.209 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	43	61	70
Ratio	100	49.1	14.4
Lower		45.7	8.5
Upper		68.5	12.7

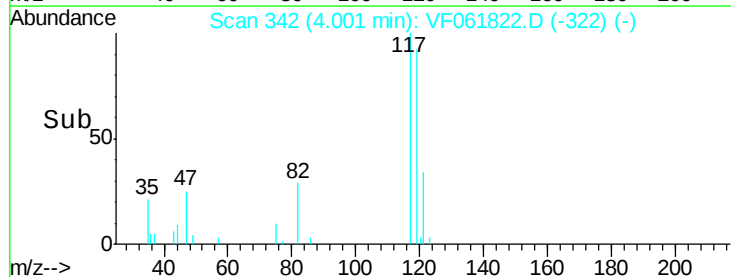
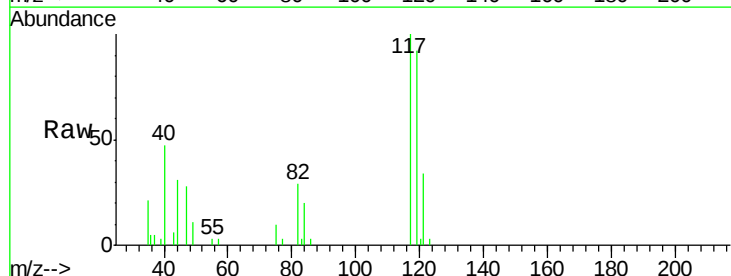
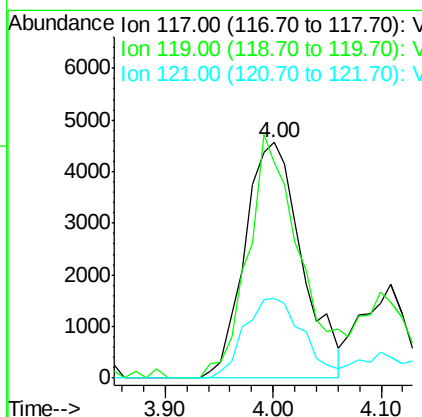
Manual Integrations
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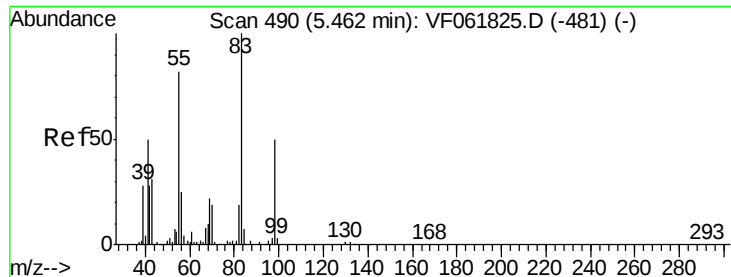
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#38
Carbon Tetrachloride
Concen: 4.847 ug/l
RT: 4.00 min Scan# 342
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	117	119	121
Ratio	100	91.6	33.8
Lower		75.6	25.2
Upper		113.4	37.8





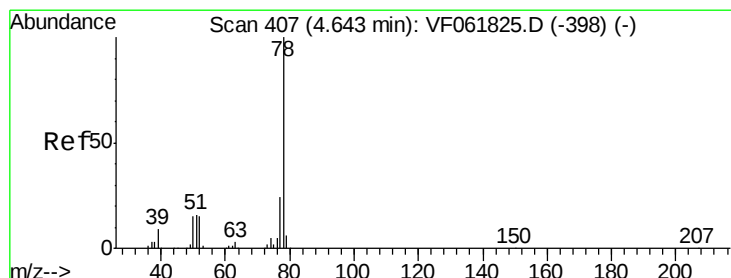
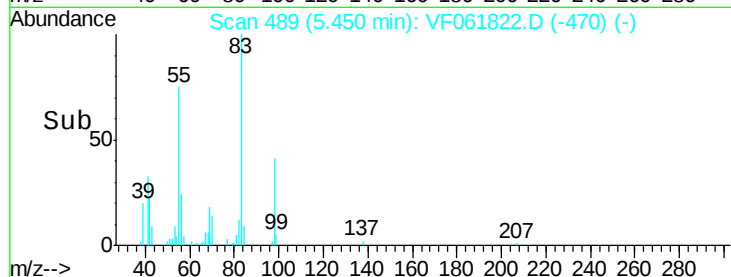
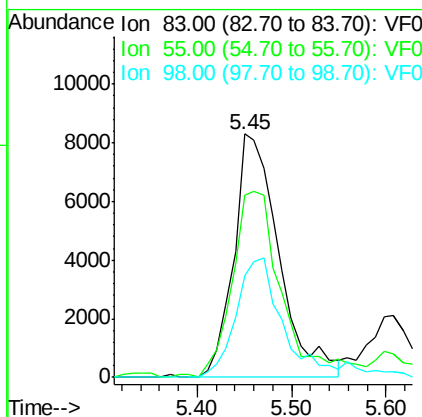
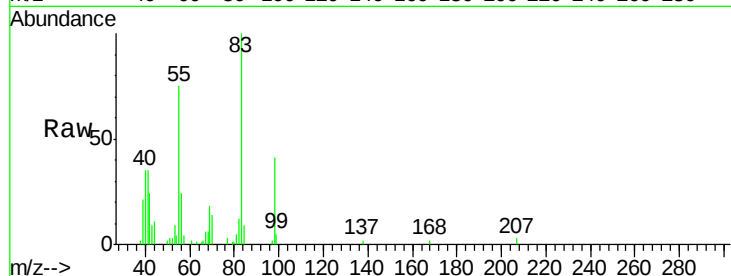
#39
Methvlcvclohexane
Concen: 4.654 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	74.9	66.6	99.8
98	41.5	40.4	60.6

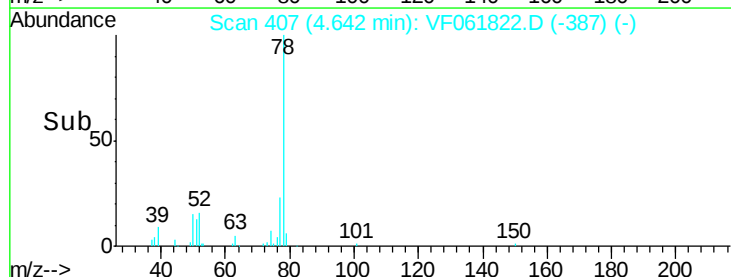
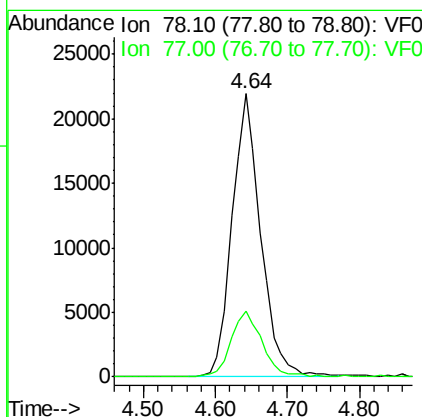
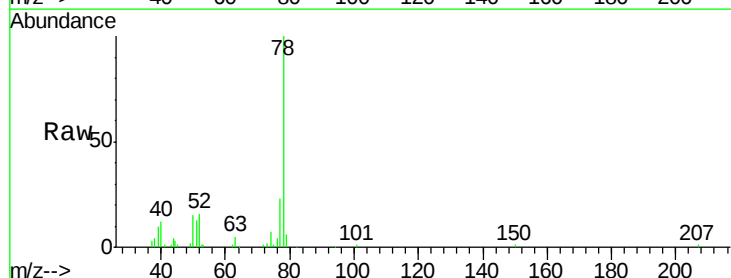
Manual Integrations
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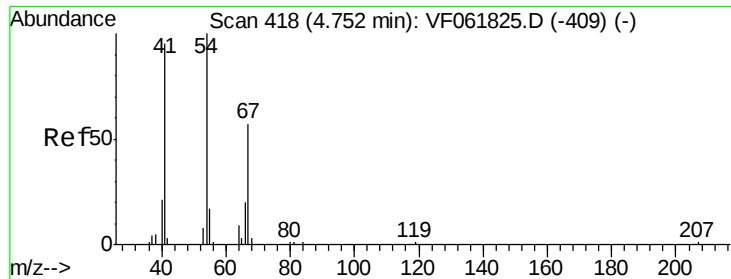
MMDadoda
3/5/2019 10:47:07 AM



#40
Benzene
Concen: 4.641 ug/l
RT: 4.64 min Scan# 407
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6





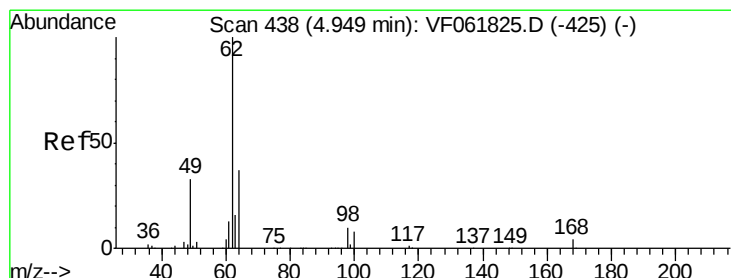
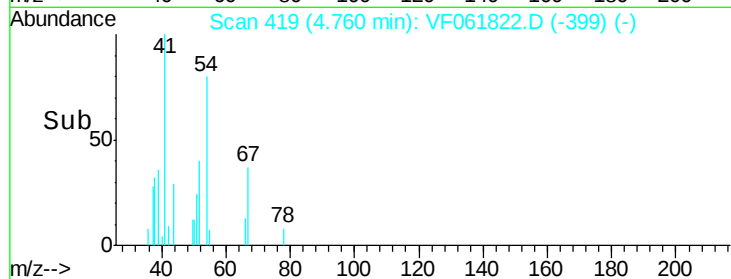
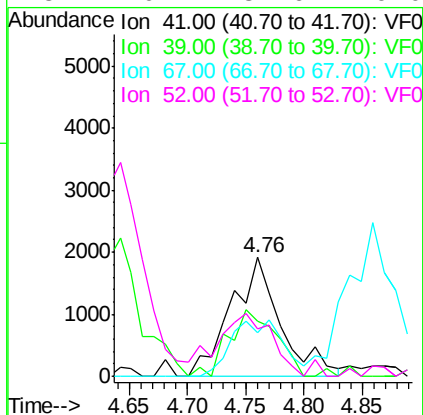
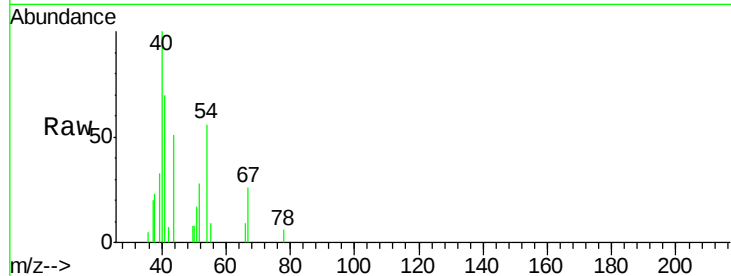
#41
Methacrylonitrile
Concen: 4.755 ug/l
RT: 4.76 min Scan# 419
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion:	41	Resp:	5661
Ion Ratio	Lower	Upper	
41	100		
39	46.9	45.3	67.9
67	36.7	49.3	73.9#
52	40.4	32.6	49.0

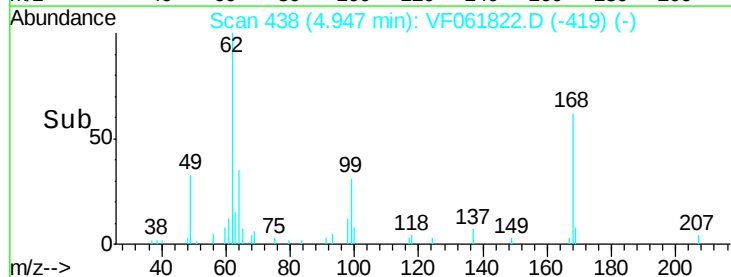
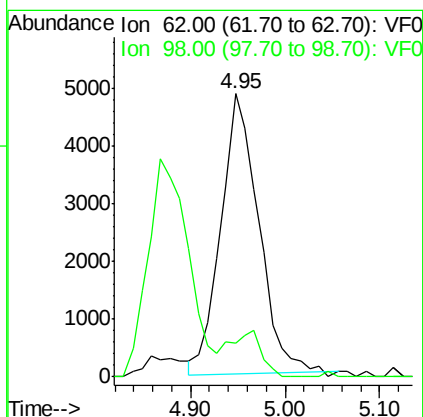
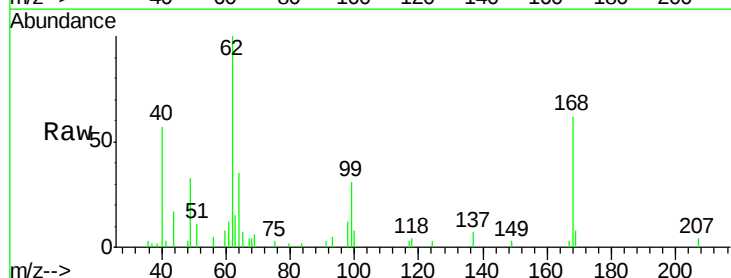
Manual Integrations
APPROVED

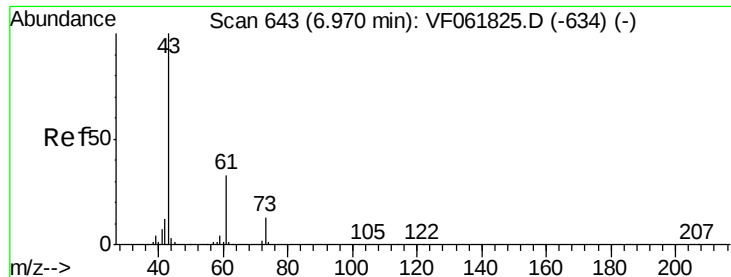
MMDadoda
3/5/2019 10:47:07 AM



#42
1,2-Dichloroethane
Concen: 4.278 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion:	62	Resp:	13416
Ion Ratio	Lower	Upper	
62	100		
98	12.2	0.0	26.0





#43

Isopropyl Acetate

Concen: 4.498 ug/l

RT: 6.97 min Scan# 643

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

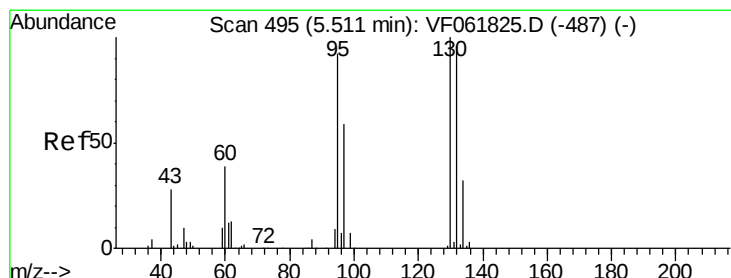
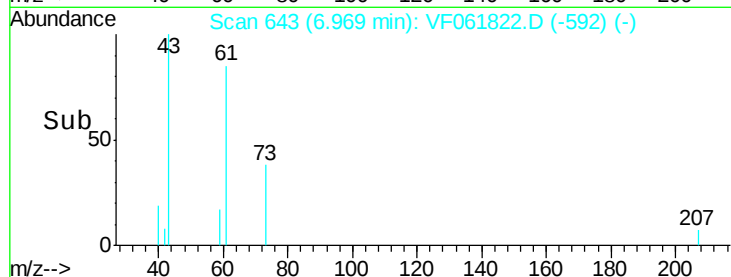
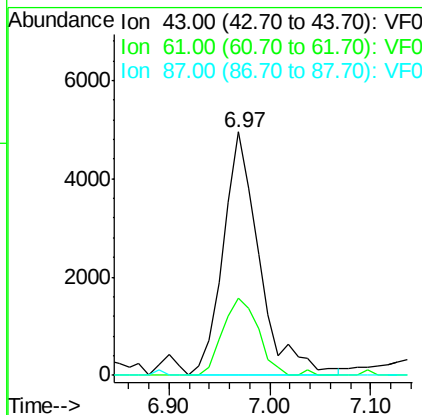
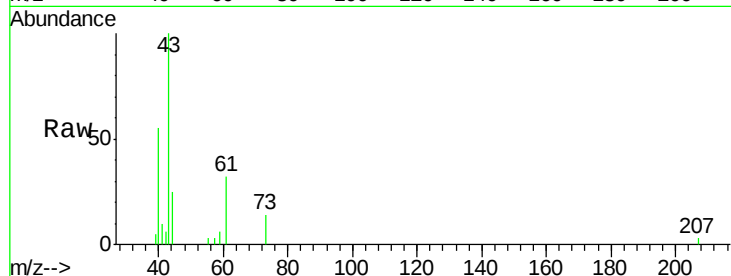
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	12394
Ion	Ratio	Lower	Upper
43	100		
61	31.5	25.8	38.6
87	0.0	0.4	0.6

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#44

Trichloroethene

Concen: 4.689 ug/l

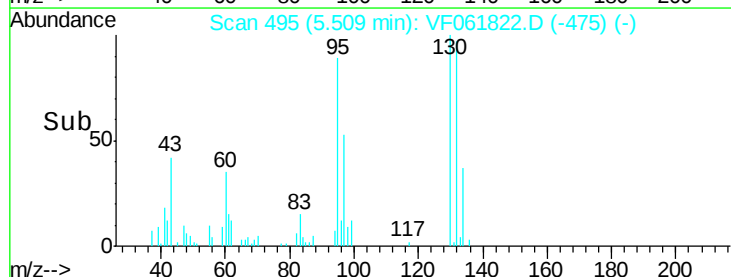
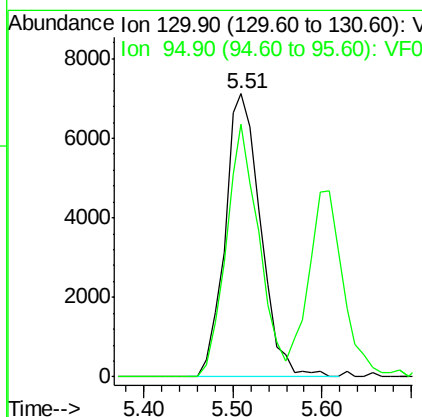
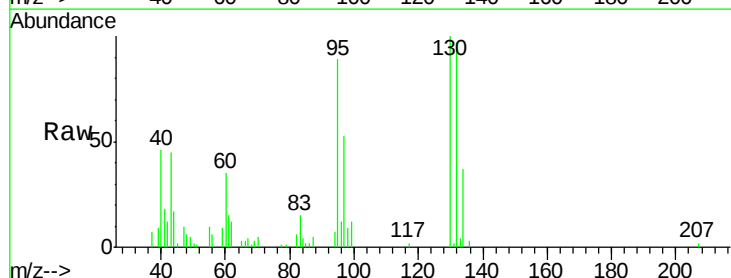
RT: 5.51 min Scan# 495

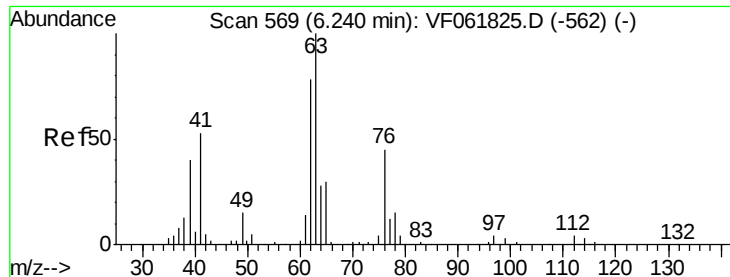
Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion:	130	Resp:	19881
Ion	Ratio	Lower	Upper
130	100		
95	89.2	0.0	179.4





#45

1,2-Dichloropropane

Concen: 4.662 ug/l

RT: 6.25 min Scan# 570

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 14775

Ion Ratio Lower Upper

63 100

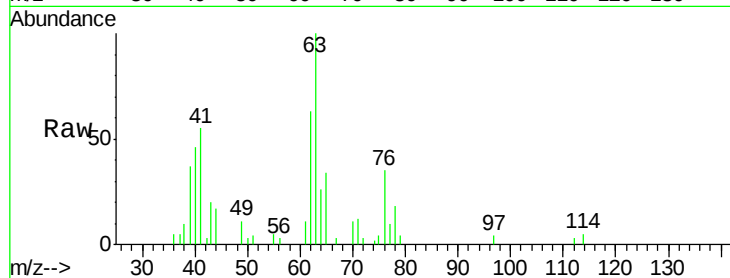
65 34.3 24.9 37.3

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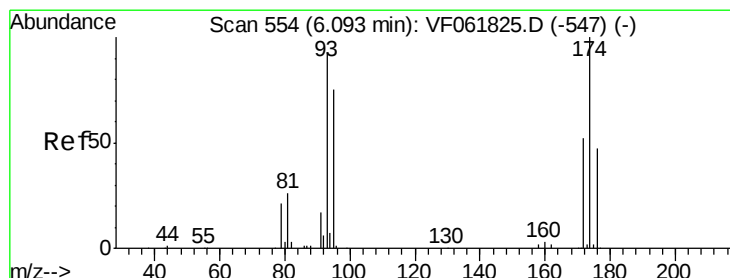
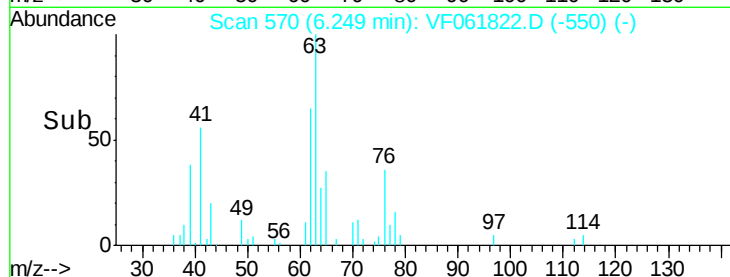
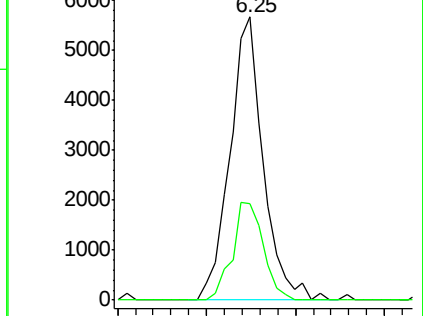
MMDadoda

3/5/2019 10:47:07 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 4.354 ug/l

RT: 6.10 min Scan# 555

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

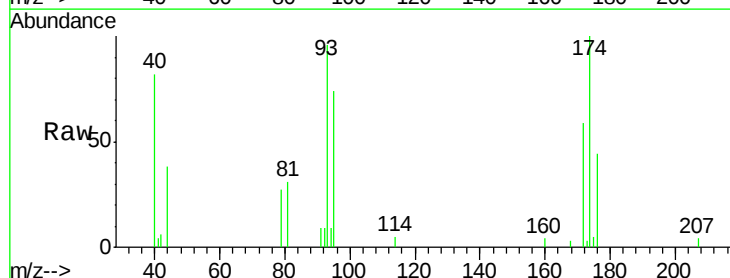
Tgt Ion: 93 Resp: 8496

Ion Ratio Lower Upper

93 100

95 76.7 69.0 103.6

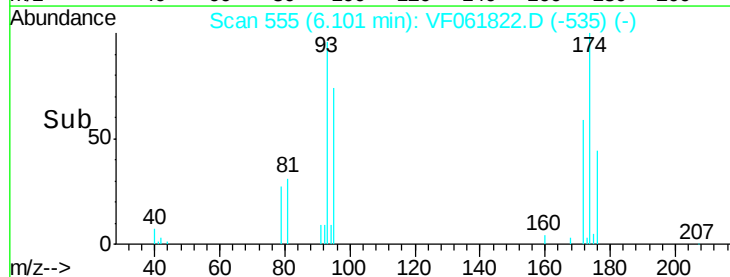
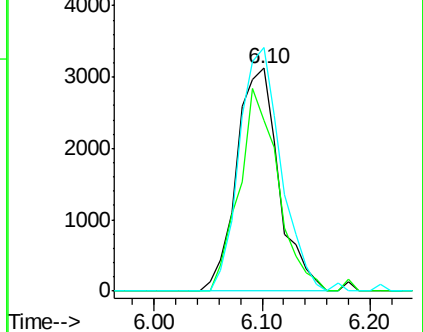
174 109.2 99.3 148.9

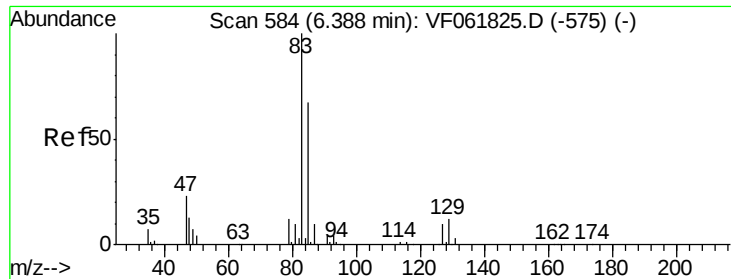


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 4.523 ug/l

RT: 6.40 min Scan# 585

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

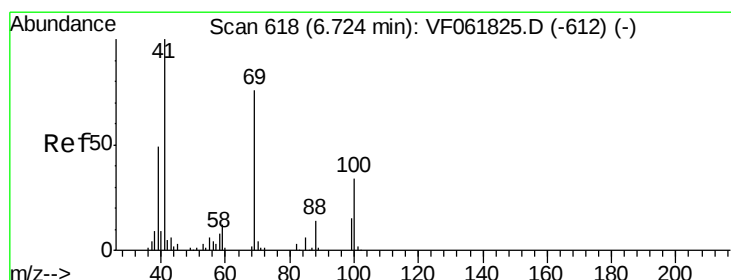
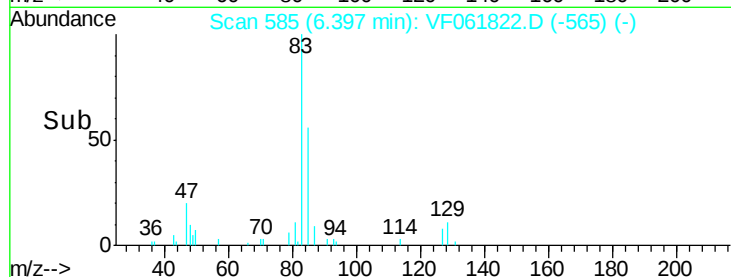
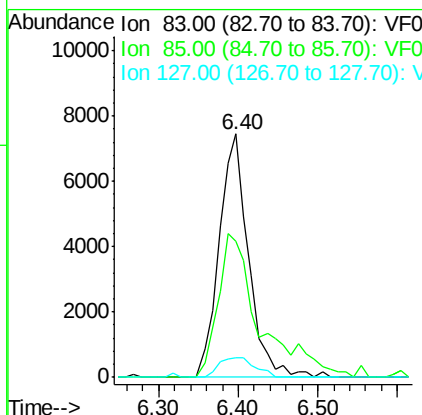
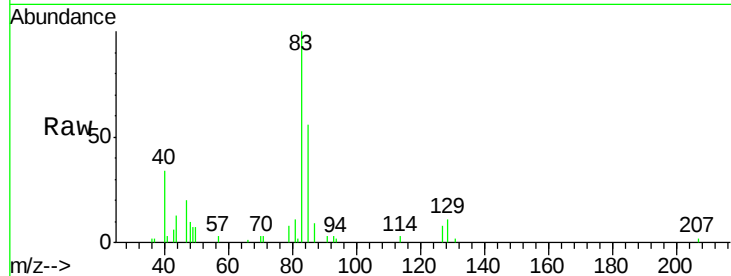
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	19326
Ion	Ratio	Lower	Upper
83	100		
85	56.1	53.4	80.2
127	8.1	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.212 ug/l

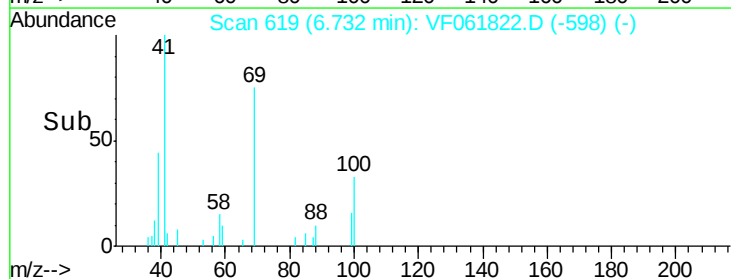
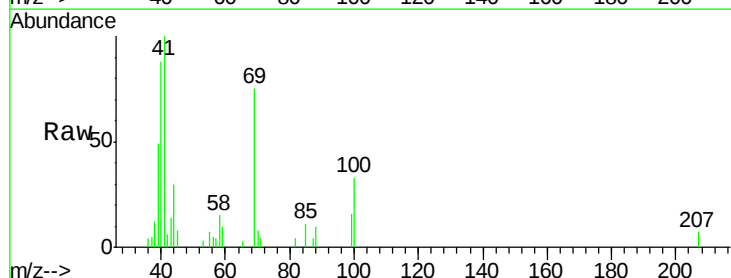
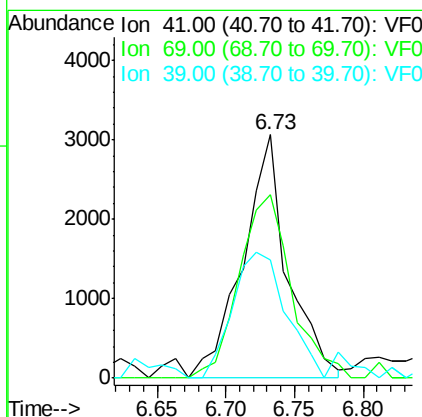
RT: 6.73 min Scan# 619

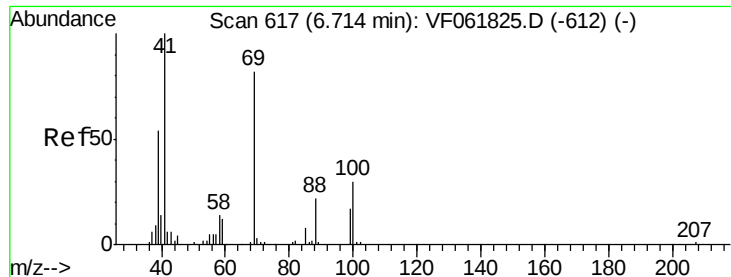
Delta R.T. 0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion:	41	Resp:	6985
Ion	Ratio	Lower	Upper
41	100		
69	75.3	60.4	90.6
39	48.7	43.7	65.5





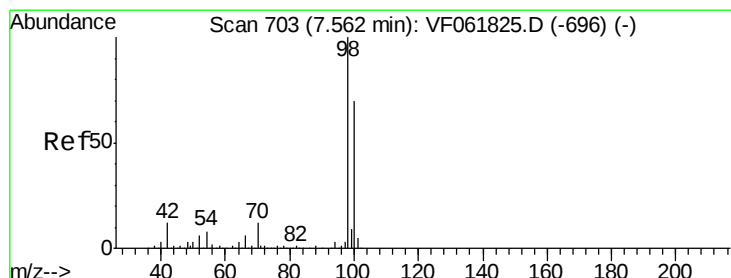
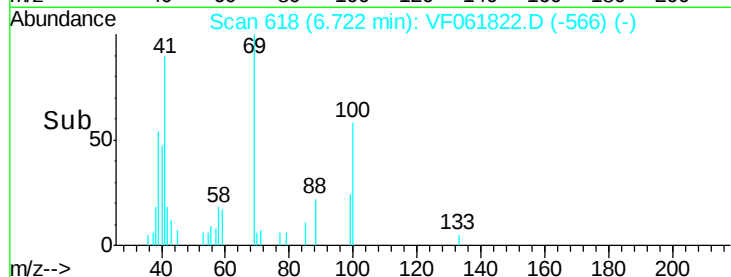
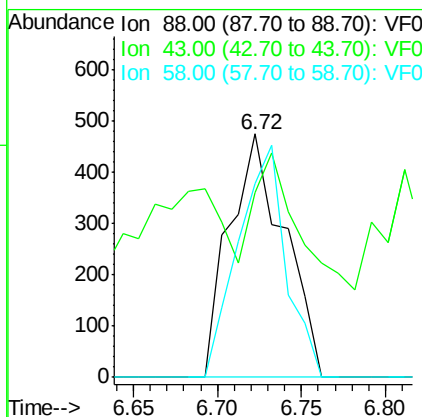
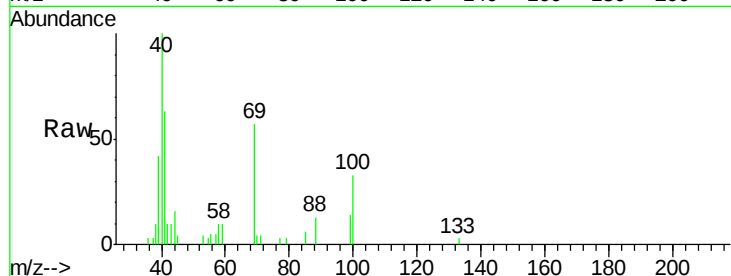
#49
1,4-Dioxane
Concen: 68.956 ug/l
RT: 6.72 min Scan# 618
Delta R.T. 0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	76.0	32.3	48.5#
58	79.4	59.4	89.2

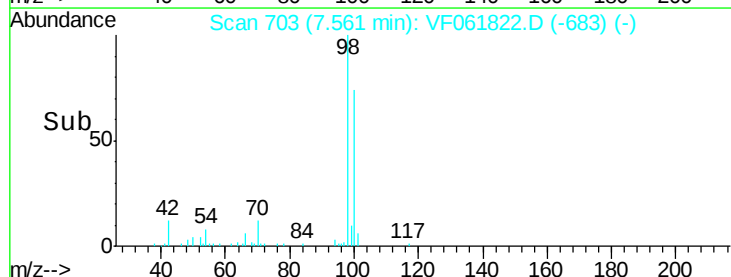
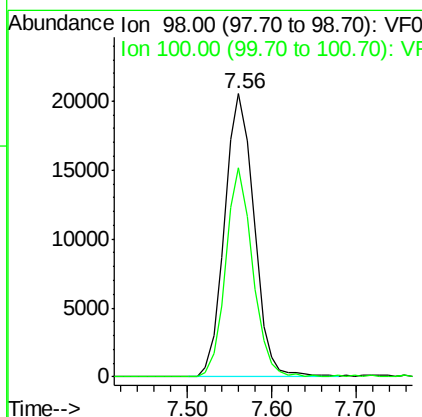
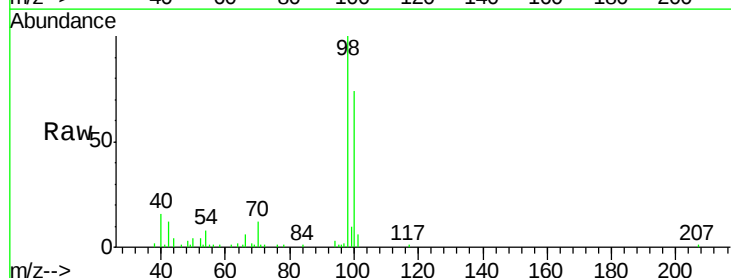
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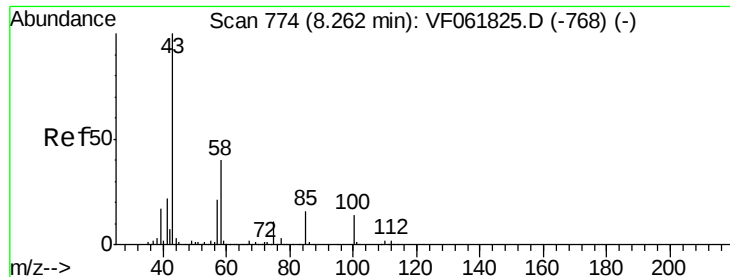
MMDadoda
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#50
Toluene-d8
Concen: 4.648 ug/l
RT: 7.56 min Scan# 703
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
98	100		
100	73.8	55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 21.158 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 41662

Ion Ratio Lower Upper

43 100

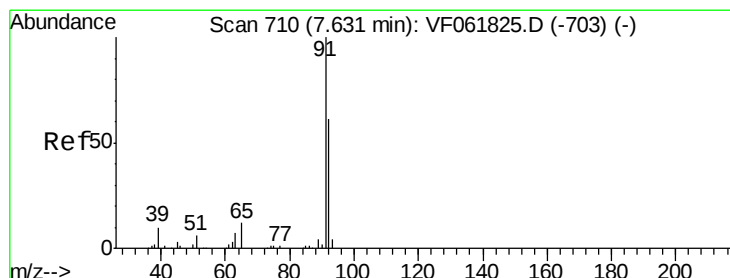
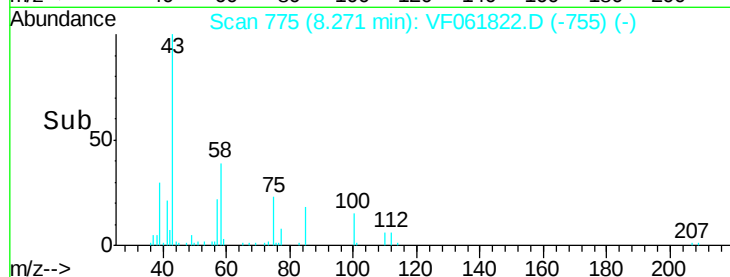
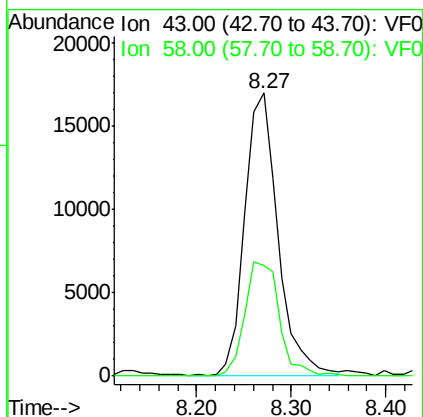
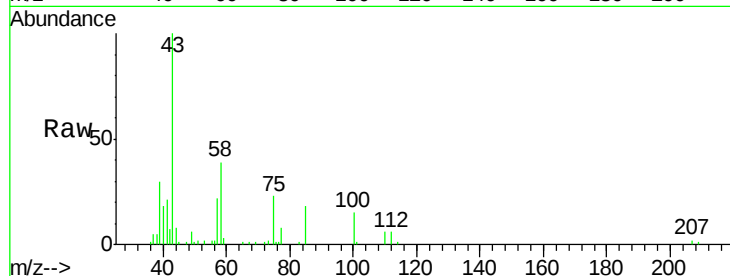
58 38.9 33.1 49.7

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#52

Toluene

Concen: 4.790 ug/l

RT: 7.63 min Scan# 710

Delta R.T. 0.00 min

Lab File: VF061822.D

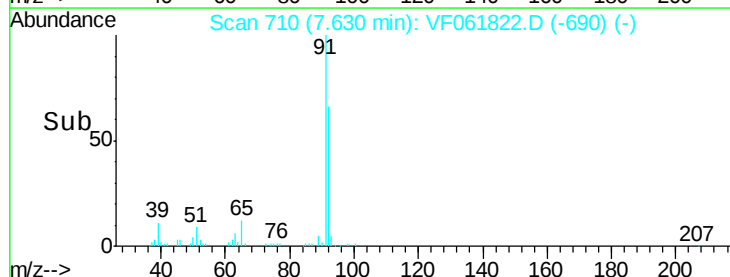
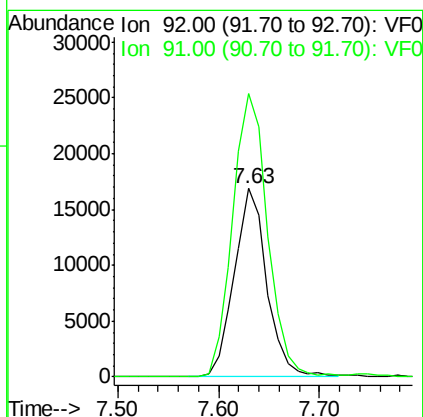
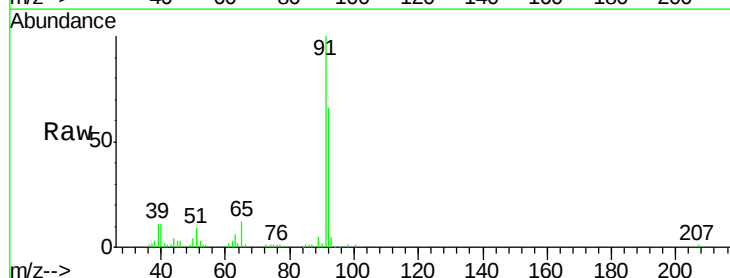
Acq: 4 Mar 2019 16:04

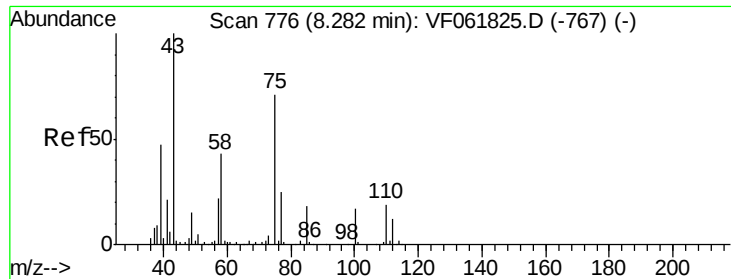
Tgt Ion: 92 Resp: 38086

Ion Ratio Lower Upper

92 100

91 150.5 133.9 200.9





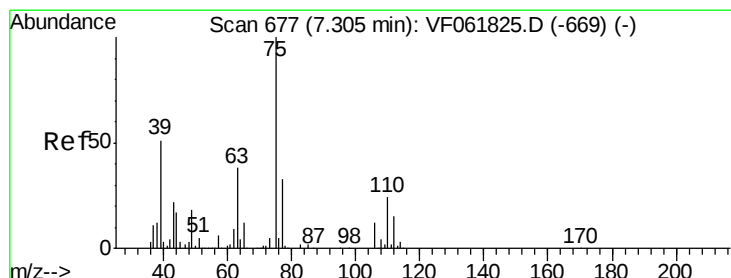
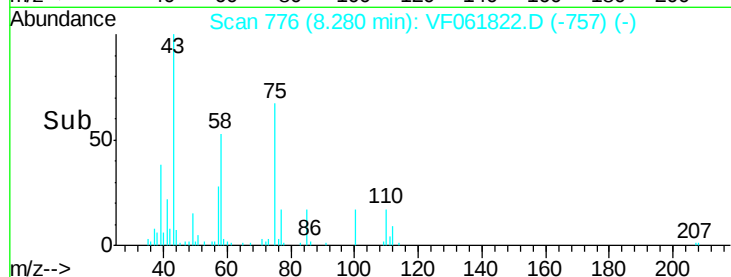
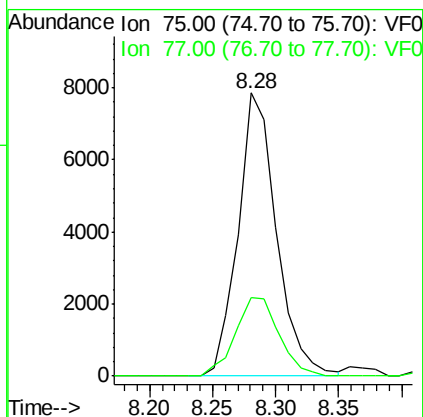
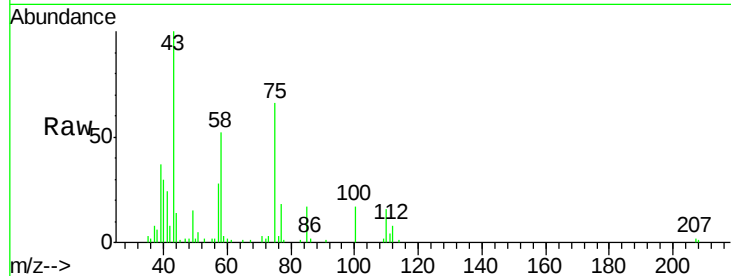
#53
t-1,3-Dichloropropene
Concen: 4.676 ug/l
RT: 8.28 min Scan# 776
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 75 Resp: 16628
Ion Ratio Lower Upper
75 100
77 27.9 26.2 39.2

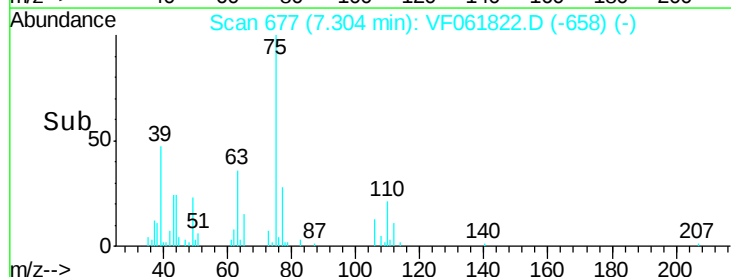
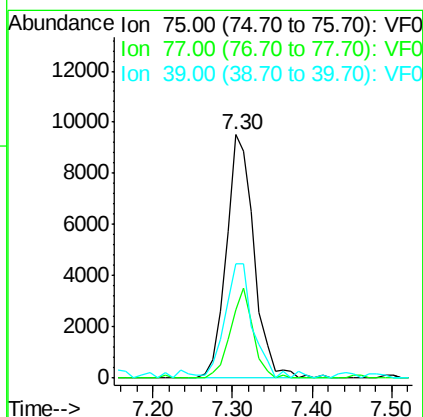
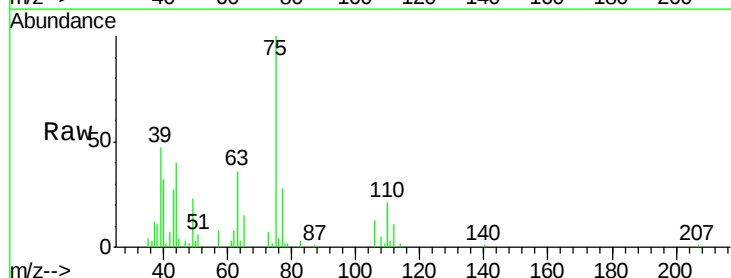
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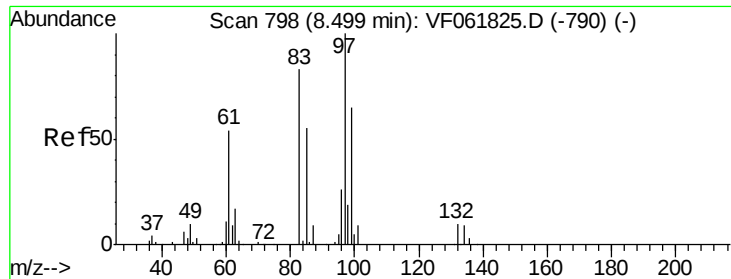
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#54
cis-1,3-Dichloropropene
Concen: 4.877 ug/l
RT: 7.30 min Scan# 677
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 75 Resp: 23103
Ion Ratio Lower Upper
75 100
77 28.0 26.4 39.6
39 46.9 36.0 54.0





#55

1,1,2-Trichloroethane

Concen: 4.404 ug/l

RT: 8.50 min Scan# 798

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 97 Resp: 10289

Ion Ratio Lower Upper

97 100

83 96.8 69.2 103.8

85 78.4 43.0 64.4#

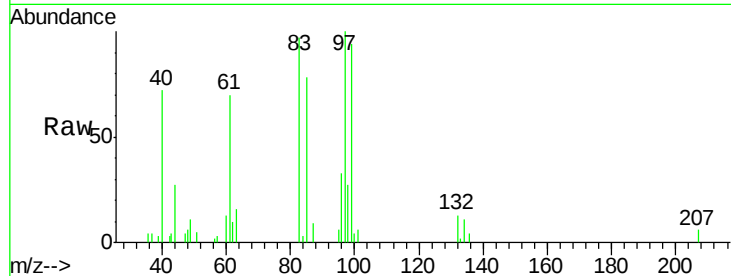
99 93.8 47.2 70.8#

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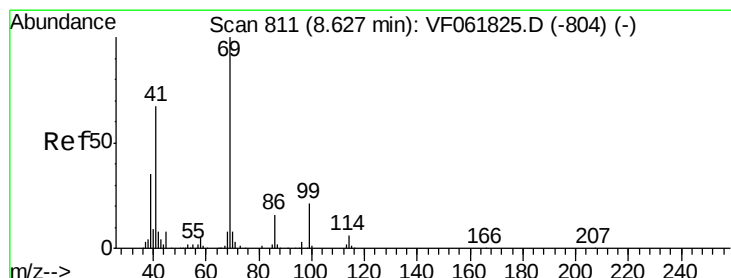
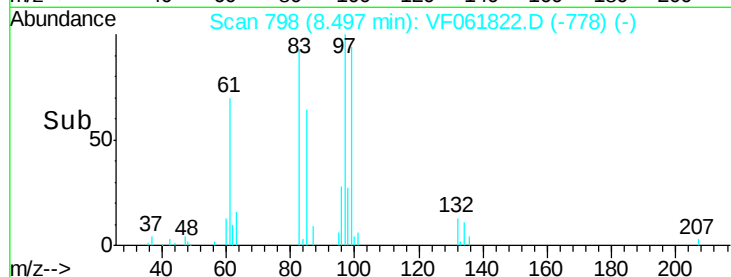
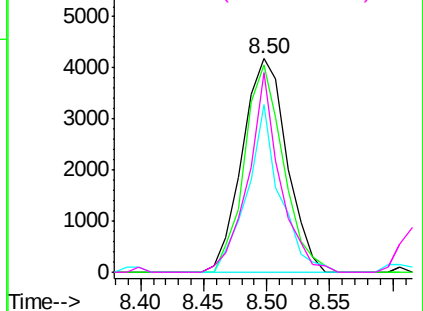


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 4.442 ug/l

RT: 8.63 min Scan# 811

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

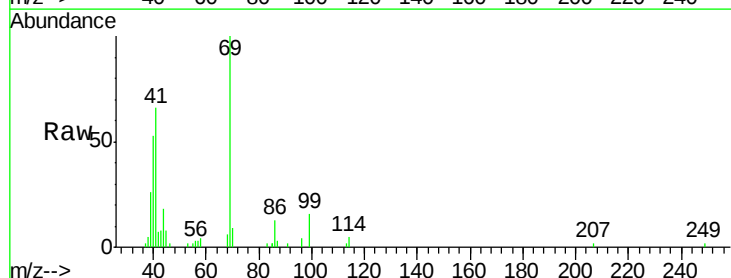
Tgt Ion: 69 Resp: 11553

Ion Ratio Lower Upper

69 100

41 66.2 52.9 79.3

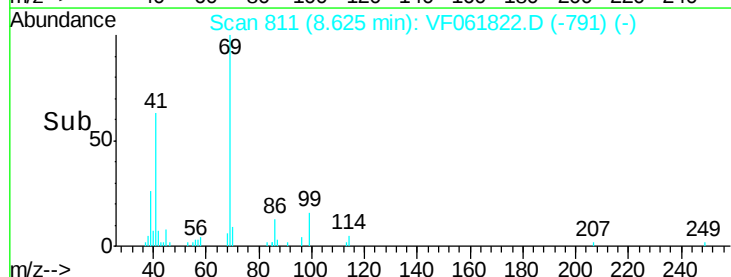
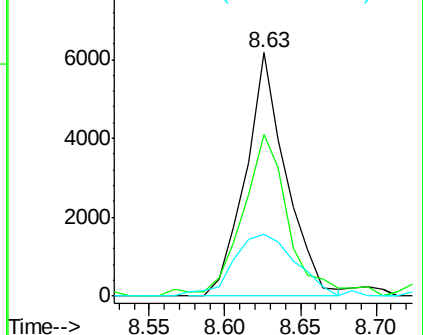
39 25.5 24.5 36.7

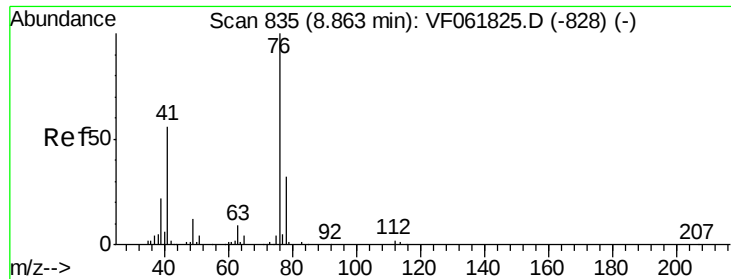


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 4.149 ug/l

RT: 8.86 min Scan# 835

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 16177

Ion Ratio Lower Upper

76 100

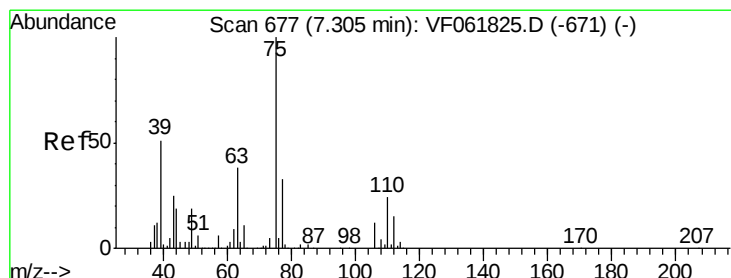
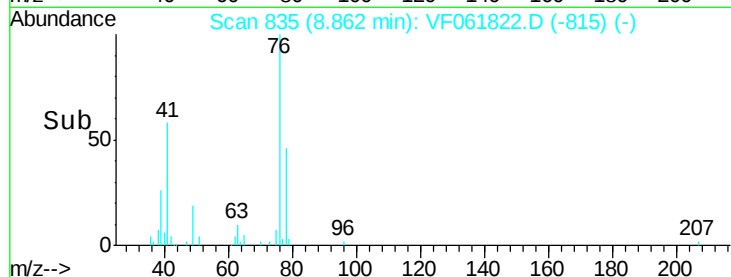
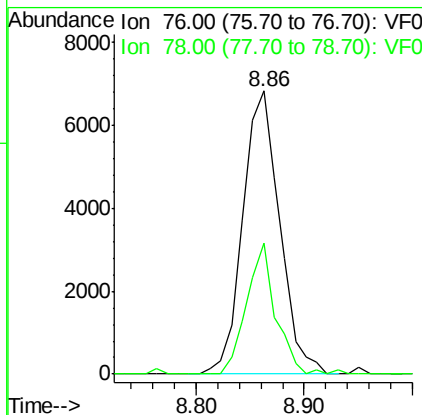
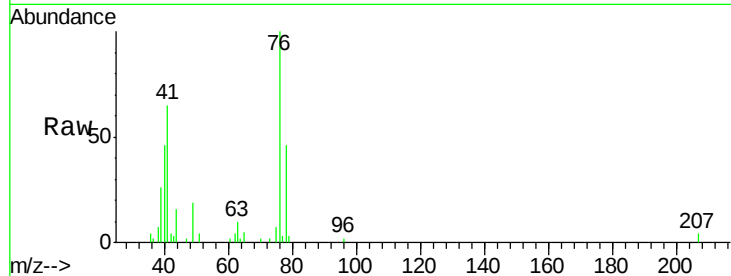
78 46.5 27.8 41.6#

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#58

2-Chloroethyl Vinyl ether

Concen: 19.349 ug/l

RT: 7.30 min Scan# 677

Delta R.T. 0.00 min

Lab File: VF061822.D

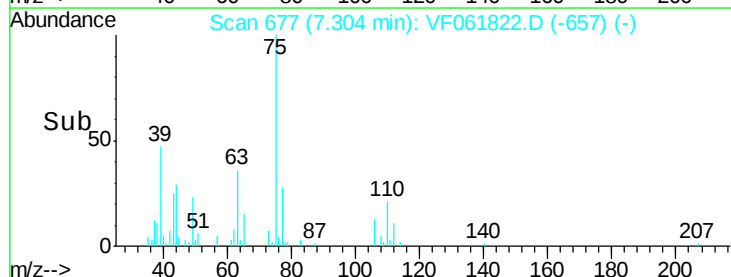
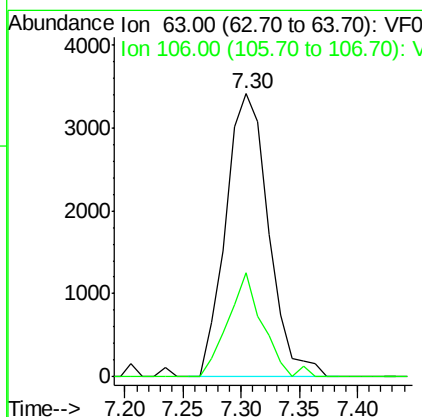
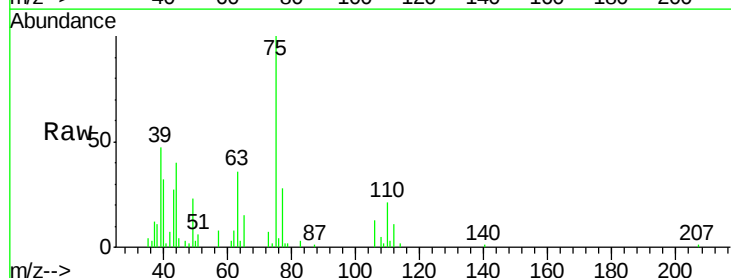
Acq: 4 Mar 2019 16:04

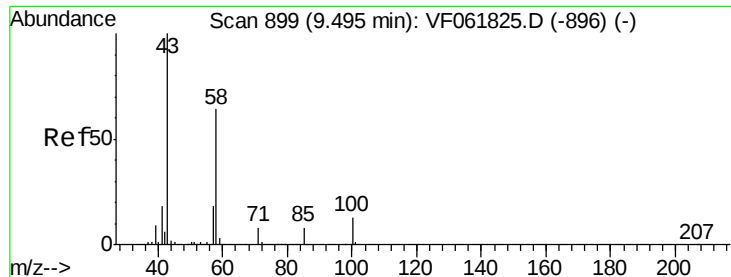
Tgt Ion: 63 Resp: 8683

Ion Ratio Lower Upper

63 100

106 36.8 24.6 36.8





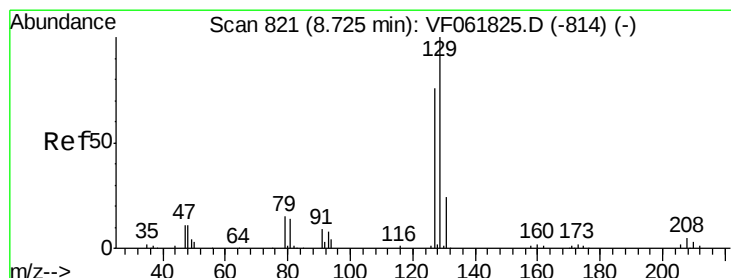
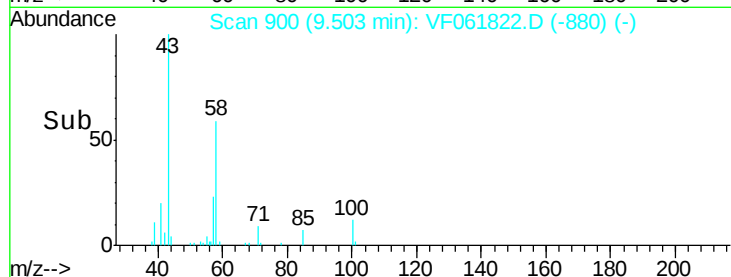
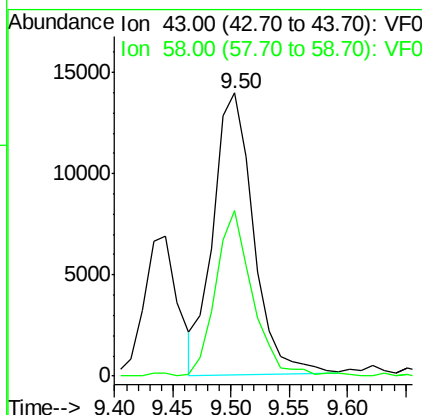
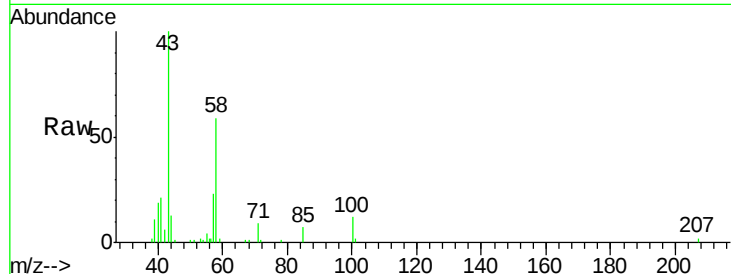
#59
2-Hexanone
Concen: 24.225 ug/l
RT: 9.50 min Scan# 900
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	43	Resp	33437
Ion	Ratio	Lower	Upper
43	100		
58	58.7	28.5	85.5

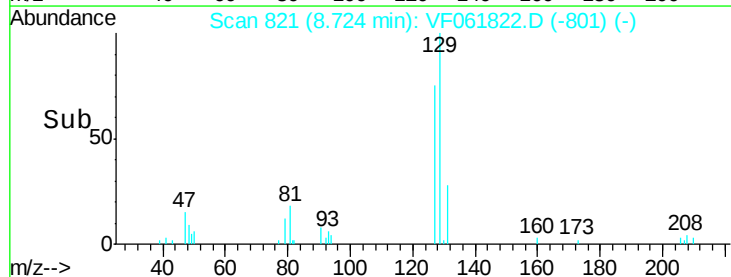
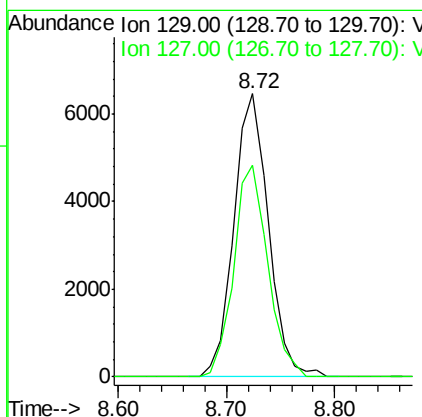
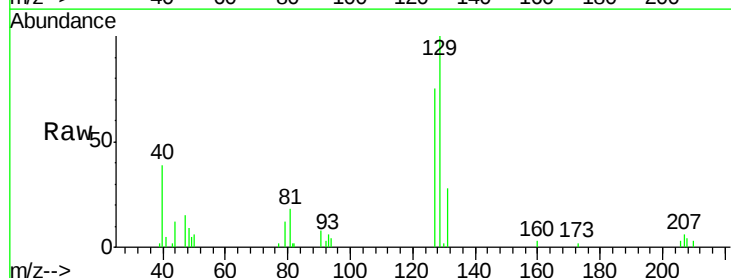
Manual Integrations
APPROVED

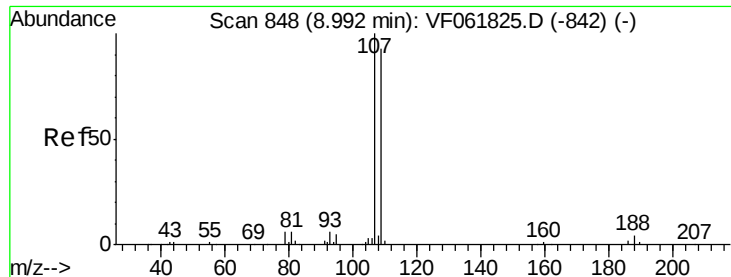
MMDadoda
3/5/2019 10:47:07 AM



#60
Dibromochloromethane
Concen: 4.420 ug/l
RT: 8.72 min Scan# 821
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	129	Resp	14373
Ion	Ratio	Lower	Upper
129	100		
127	74.6	37.8	113.4





#61

1,2-Dibromoethane

Concen: 4.477 ug/l

RT: 9.00 min Scan# 849

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 11345

Ion Ratio Lower Upper

107 100

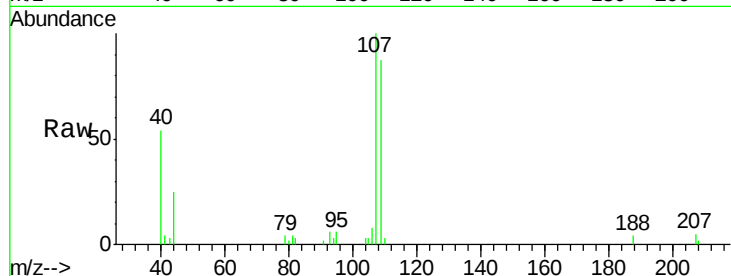
109 86.6 77.4 116.0

Manual Integrations

APPROVED

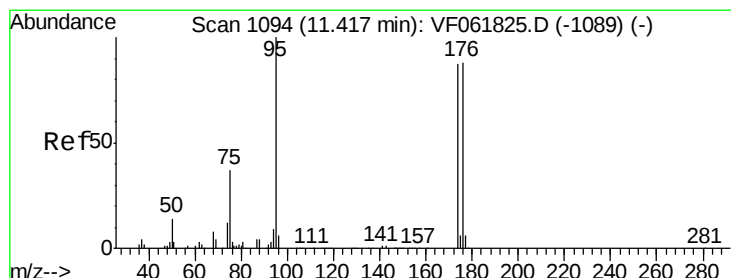
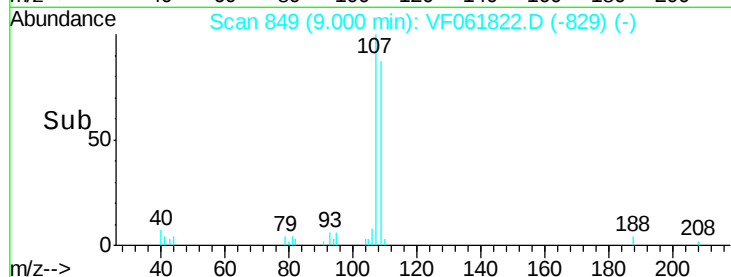
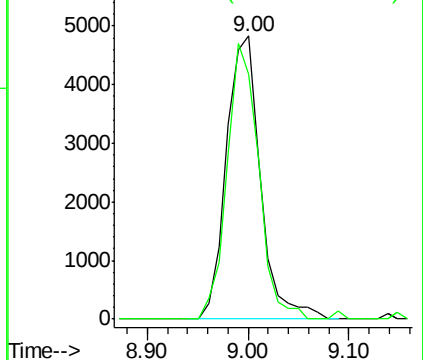
MMDadoda

3/5/2019 10:47:07 AM



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 4.633 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

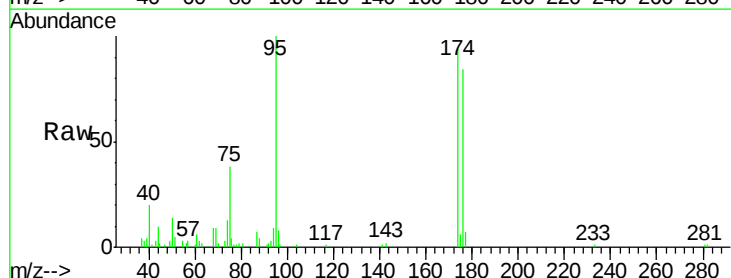
Tgt Ion: 95 Resp: 20250

Ion Ratio Lower Upper

95 100

174 94.3 0.0 165.8

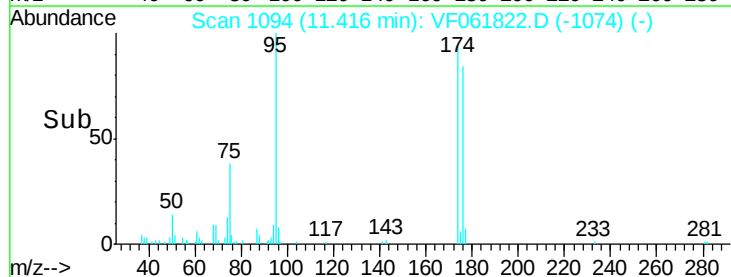
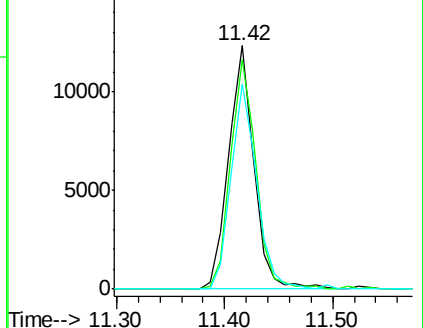
176 84.1 0.0 167.0

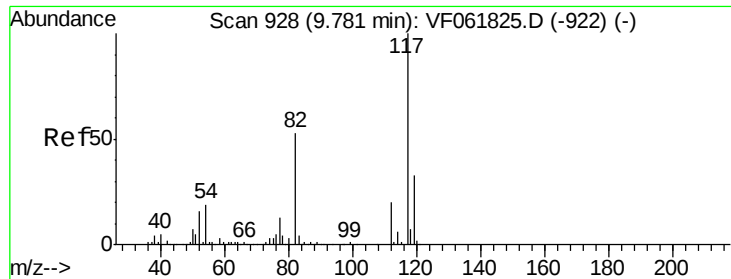


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





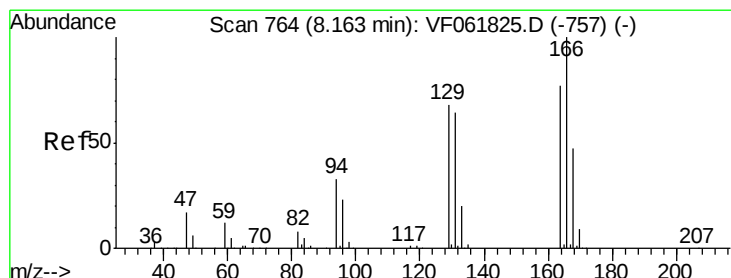
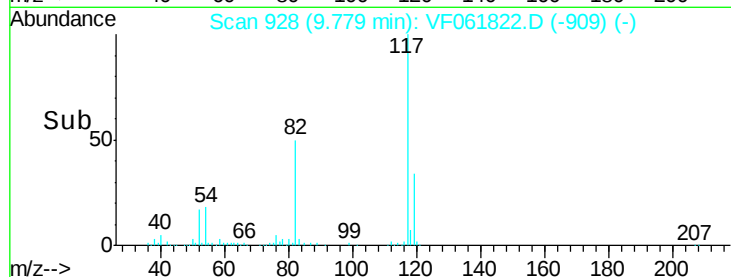
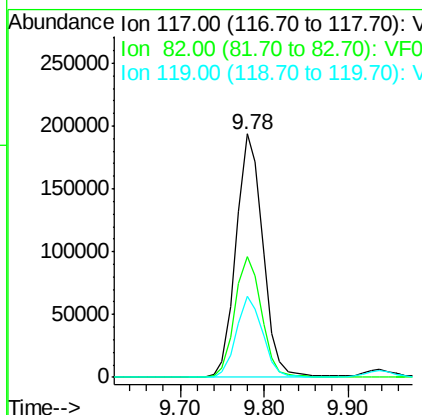
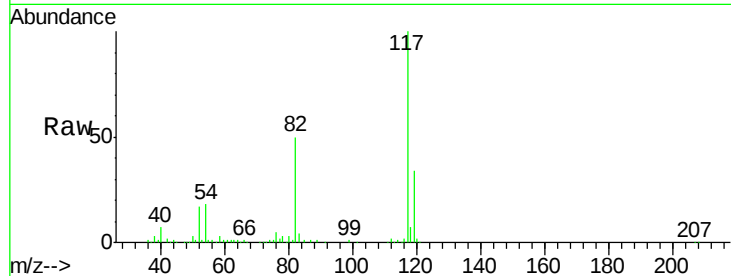
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	49.8	39.3	58.9
119	33.6	26.6	40.0

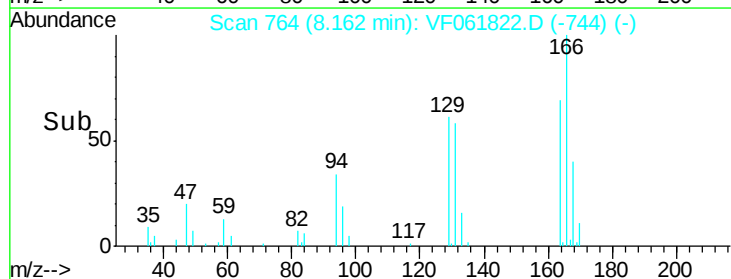
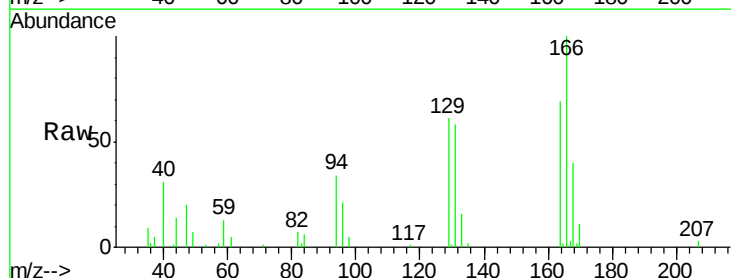
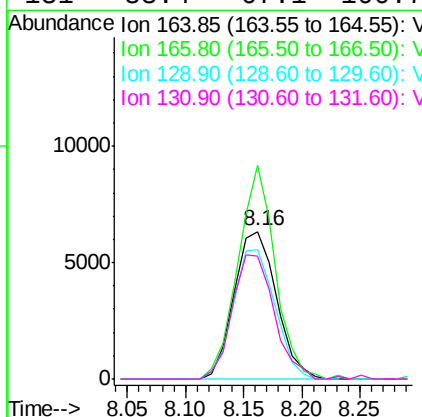
Manual Integrations
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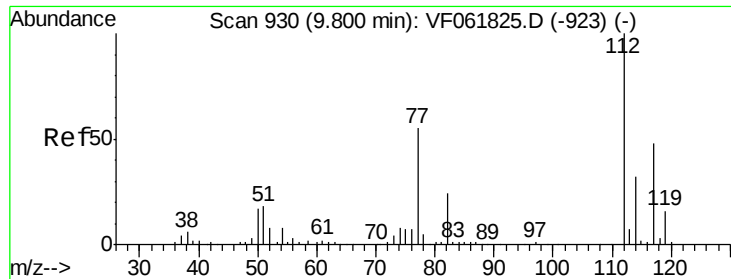
MMDadoda
3/5/2019 10:47:07 AM



#64
Tetrachloroethene
Concen: 4.522 ug/l
RT: 8.16 min Scan# 764
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	144.6	103.9	155.9
129	87.6	71.3	106.9
131	83.4	67.1	100.7





#65

Chlorobenzene

Concen: 4.776 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 41920

Ion Ratio Lower Upper

112 100

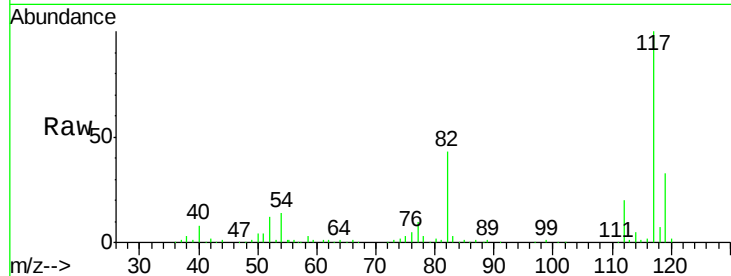
114 26.9 26.2 39.2

Manual Integrations

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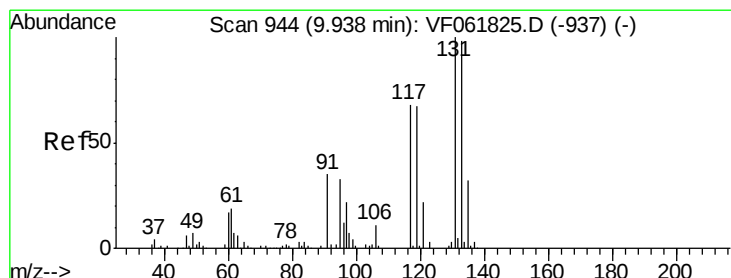
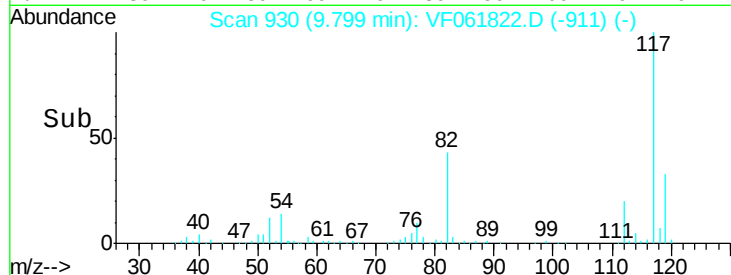
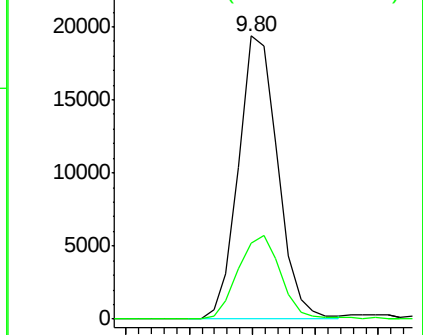
MMDadoda

3/5/2019 10:47:07 AM



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 4.564 ug/l

RT: 9.94 min Scan# 944

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

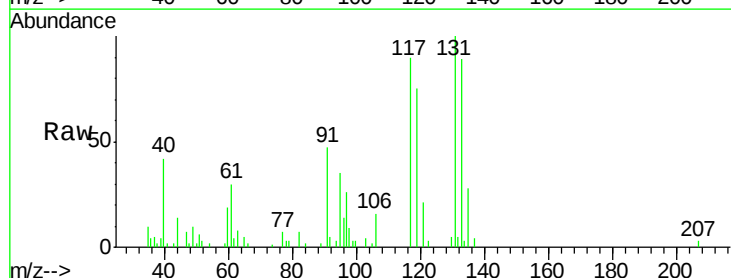
Tgt Ion:131 Resp: 15696

Ion Ratio Lower Upper

131 100

133 88.6 48.9 146.6

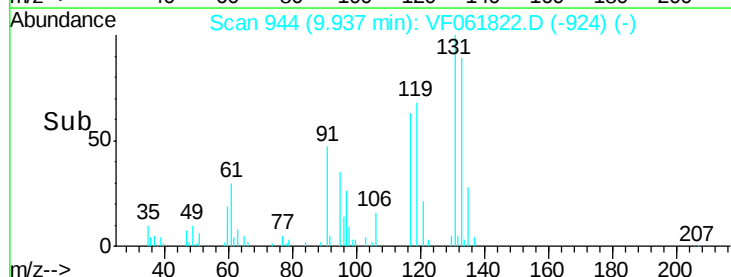
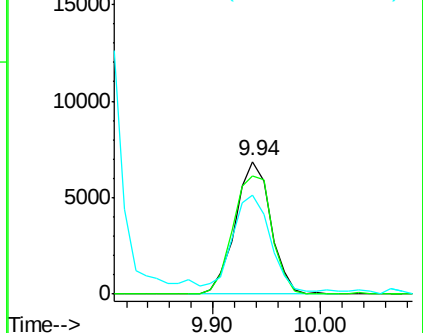
119 74.7 34.8 104.3

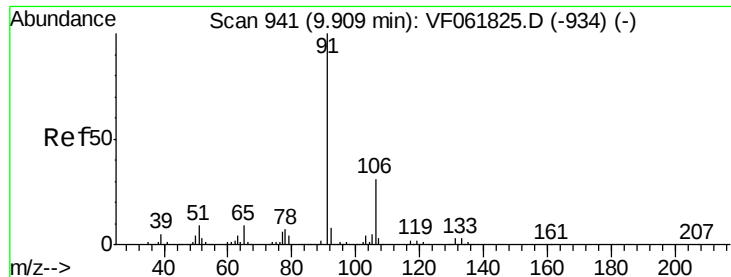


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 4.837 ug/l

RT: 9.91 min Scan# 941

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 70603

Ion Ratio Lower Upper

91 100

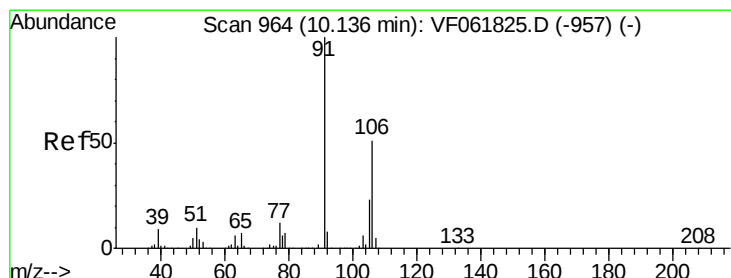
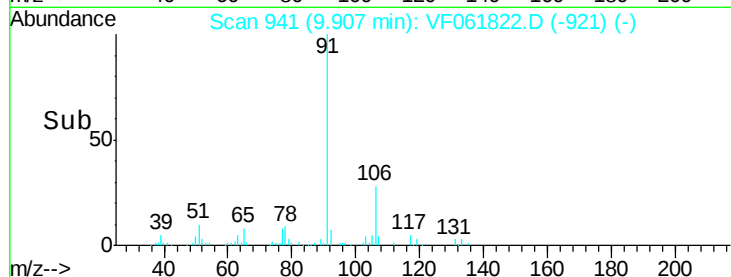
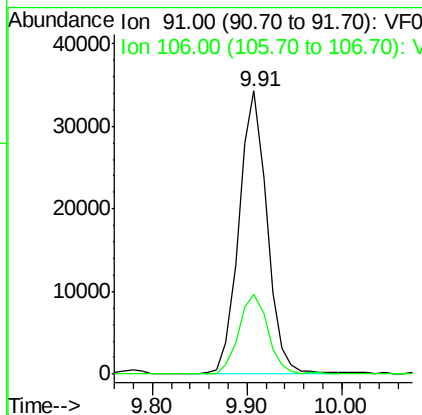
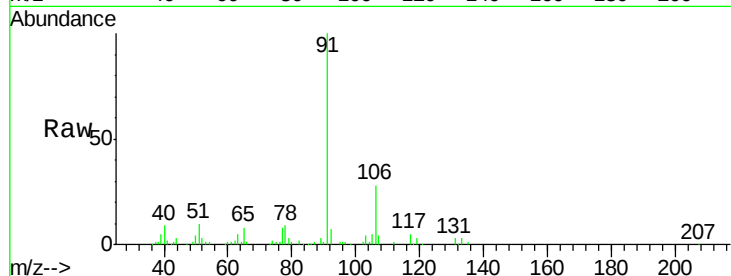
106 28.1 24.1 36.1

Manual Integrations

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#68

m/p-Xylenes

Concen: 9.975 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF061822.D

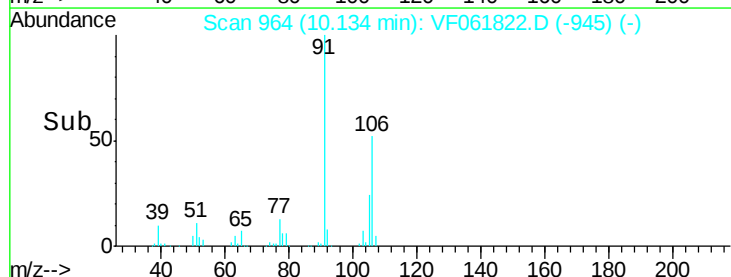
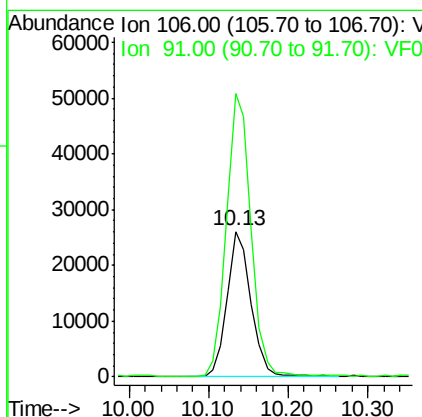
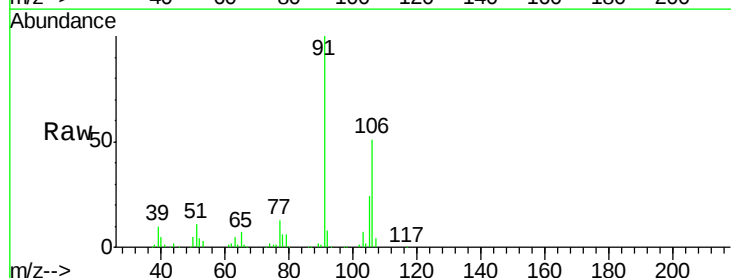
Acq: 4 Mar 2019 16:04

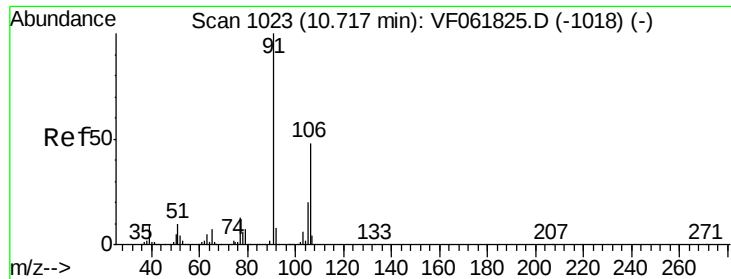
Tgt Ion: 106 Resp: 55722

Ion Ratio Lower Upper

106 100

91 194.5 153.0 229.6





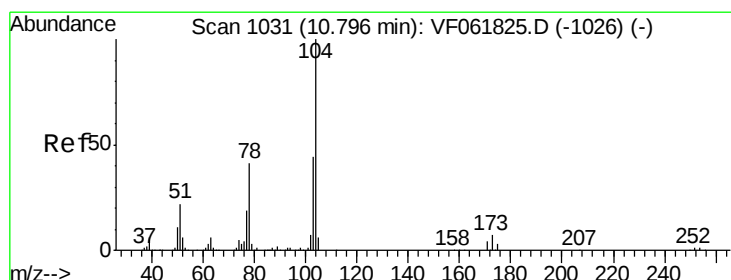
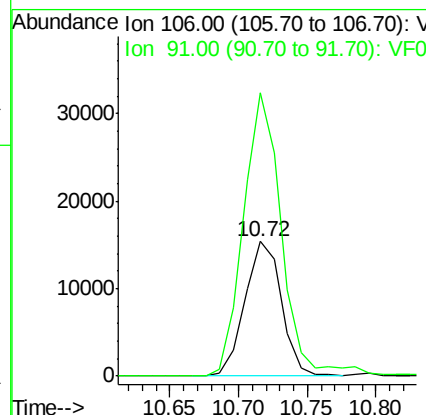
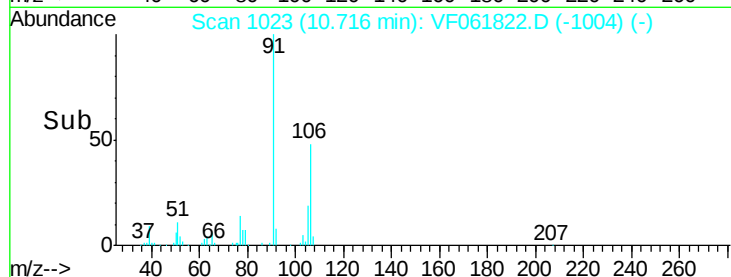
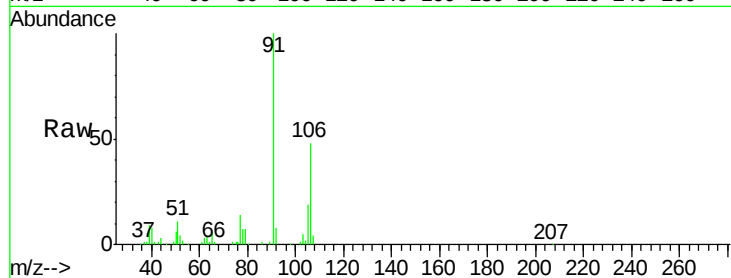
#69
o-Xylene
Concen: 4.793 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
106	100		
91	210.5	100.1	300.1

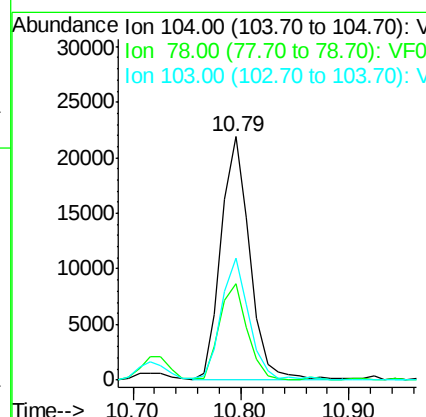
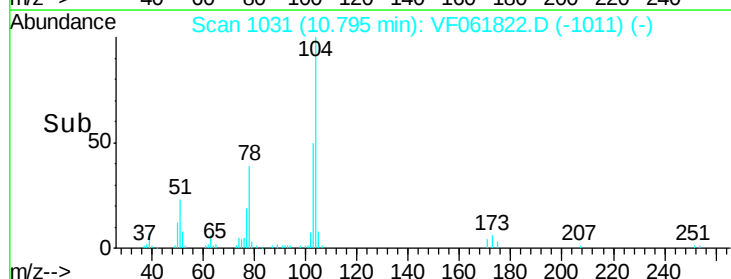
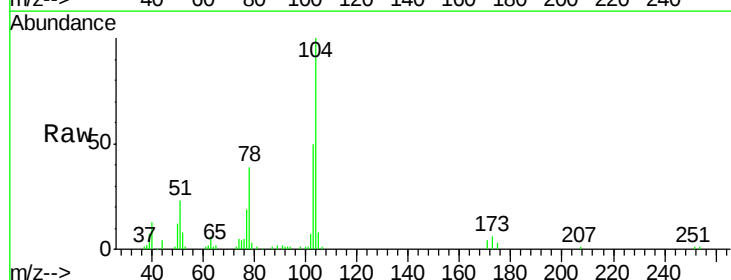
Manual Integrations
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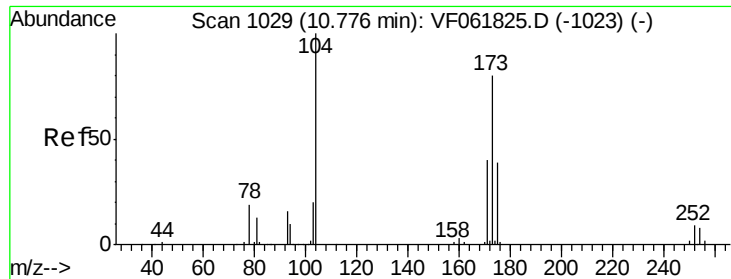
MMDadoda
3/5/2019 10:47:07 AM



#70
Styrene
Concen: 4.822 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
104	100		
78	39.4	33.2	49.8
103	50.4	37.2	55.8





#71

Bromoform

Concen: 4.290 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

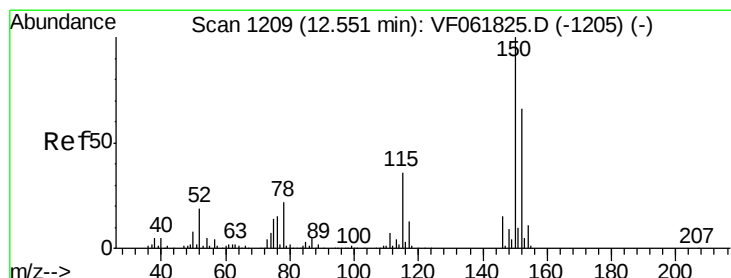
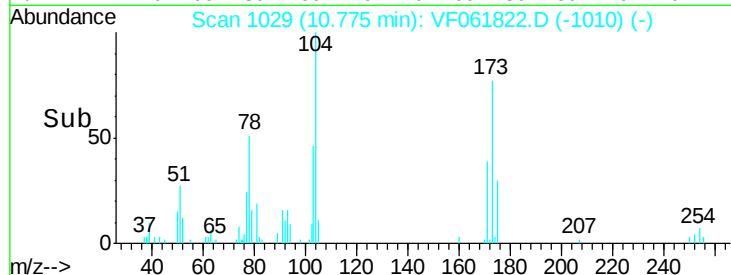
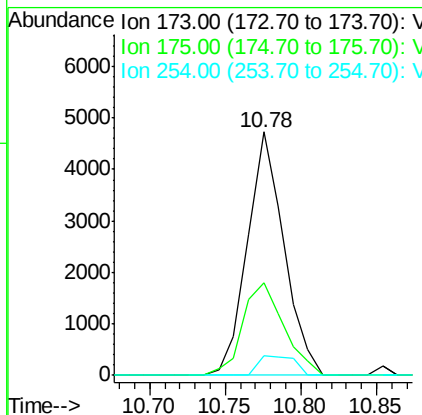
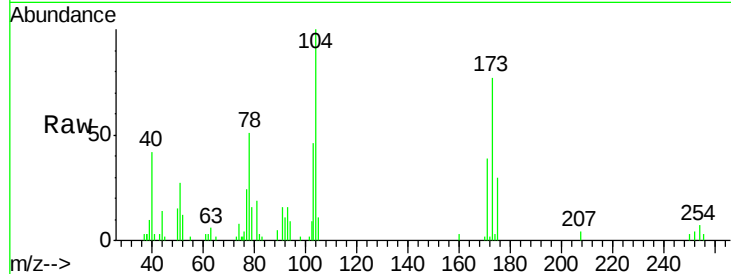
ClientSampleId :

VSTDIC005

Tot Ion:	173	Resp:	8011
Ion Ratio	Lower	Upper	
173	100		
175	38.2	24.0	72.0
254	8.3	8.2	12.2

Manual Integrations
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3/5/2019 10:47:07 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

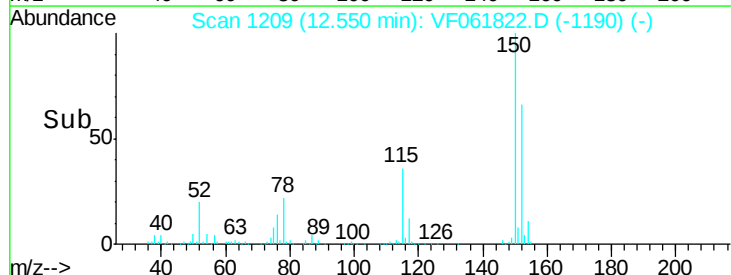
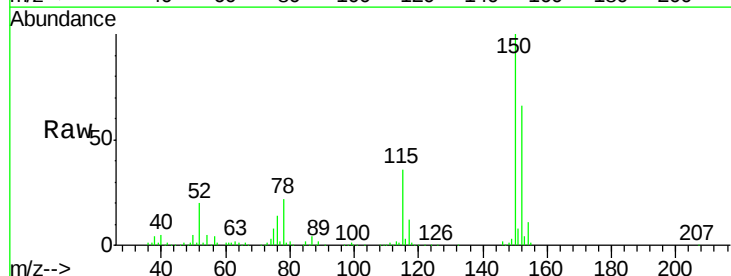
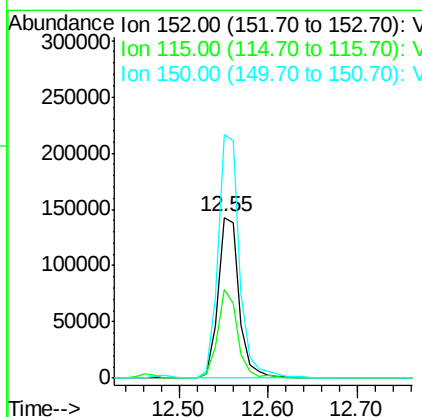
RT: 12.55 min Scan# 1209

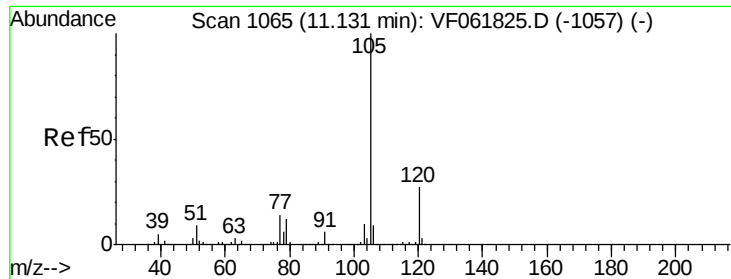
Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion:	152	Resp:	239939
Ion Ratio	Lower	Upper	
152	100		
115	55.0	24.3	72.8
150	151.2	0.0	312.0





#73

Isopropylbenzene

Concen: 4.901 ug/l

RT: 11.13 min Scan# 1065

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 83717

Ion Ratio Lower Upper

105 100

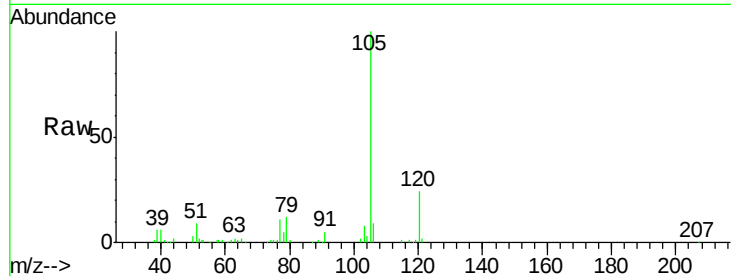
120 23.6 13.4 40.1

Manual Integrations

APPROVED

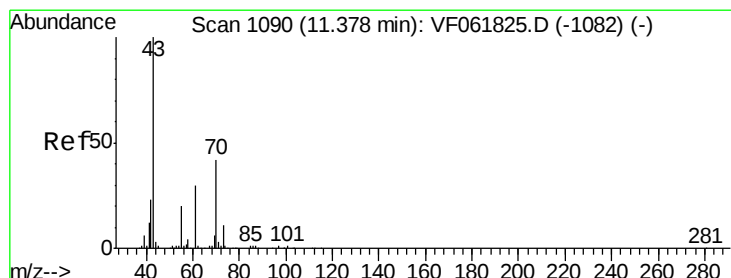
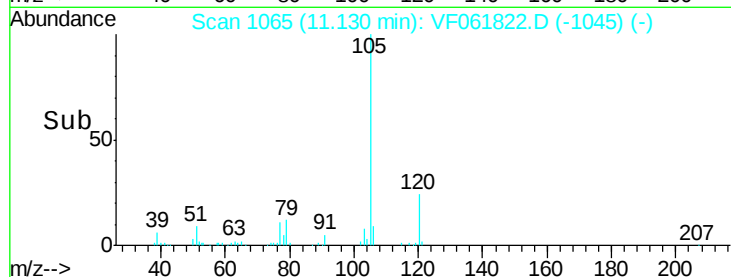
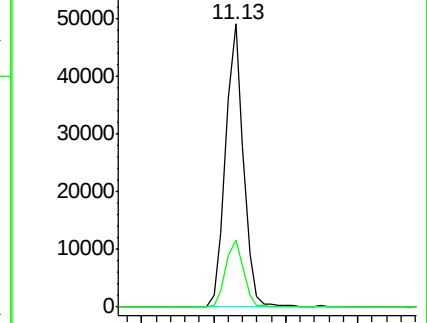
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.328 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion: 43 Resp: 17746

Ion Ratio Lower Upper

43 100

70 37.7 31.5 47.3

55 24.3 16.7 25.1

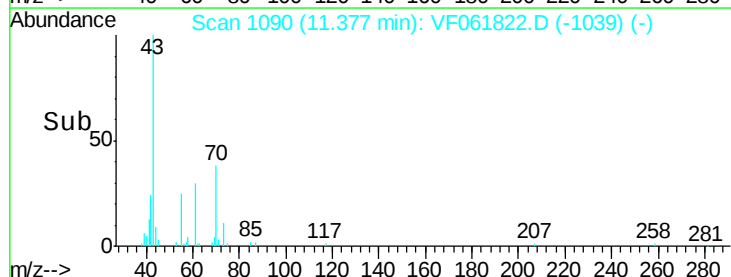
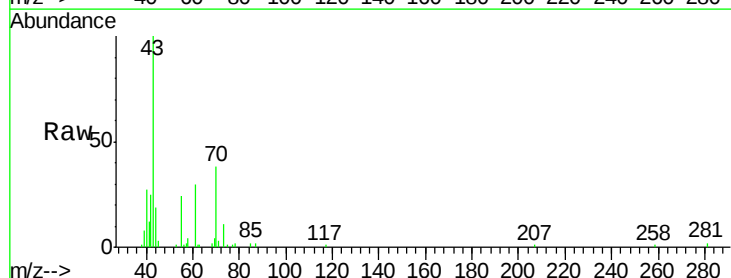
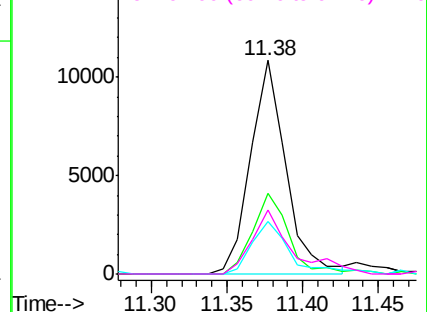
61 29.7 23.0 34.6

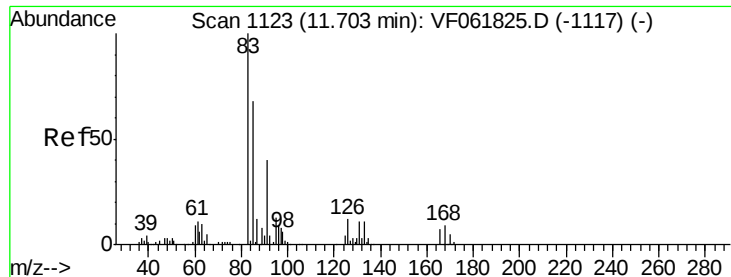
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 4.414 ug/l

RT: 11.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

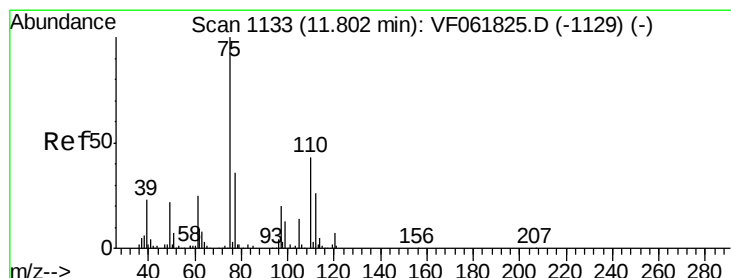
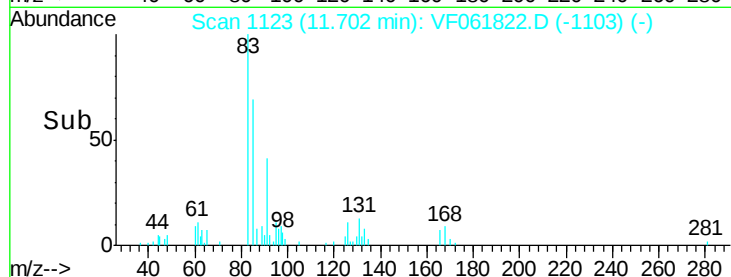
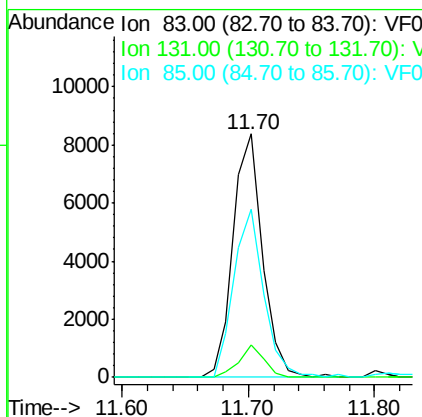
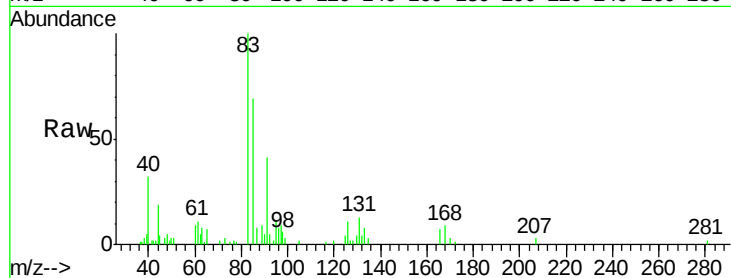
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	13510
Ion Ratio	Lower	Upper	
83	100		
131	13.1	4.4	13.2
85	69.0	31.5	94.5

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#76

1,2,3-Trichloropropane

Concen: 4.388 ug/l

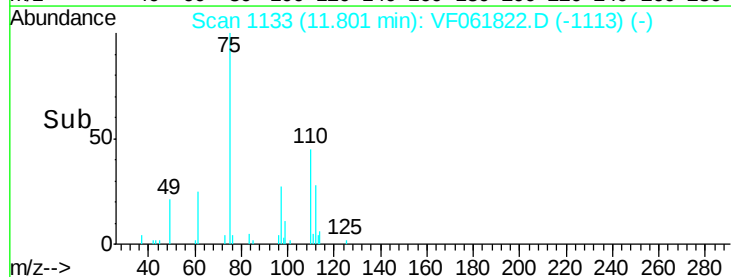
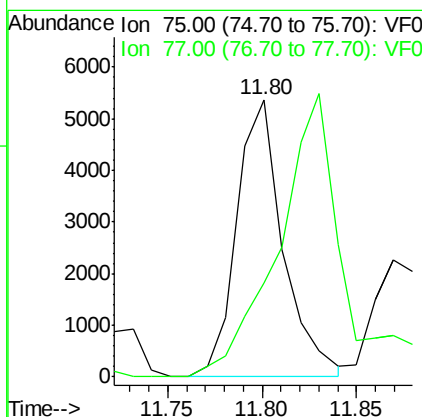
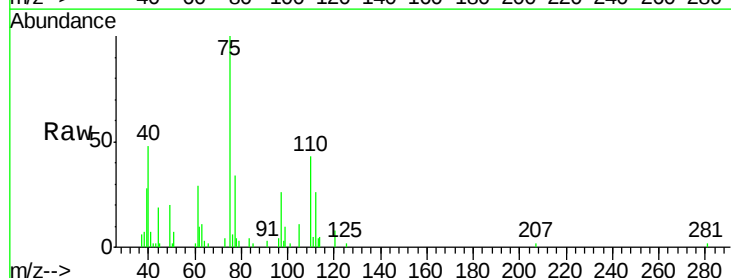
RT: 11.80 min Scan# 1133

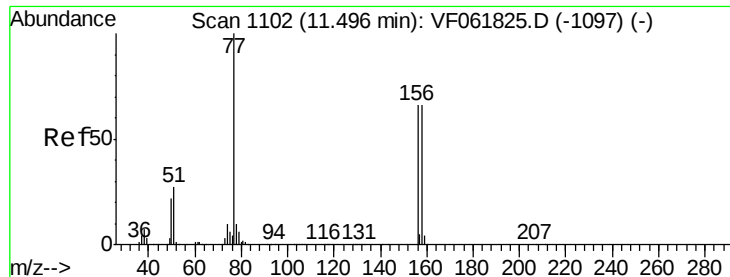
Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion:	75	Resp:	9131
Ion Ratio	Lower	Upper	
75	100		
77	33.8	16.6	49.7





#77

Bromobenzene

Concen: 4.924 ug/l

RT: 11.49 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

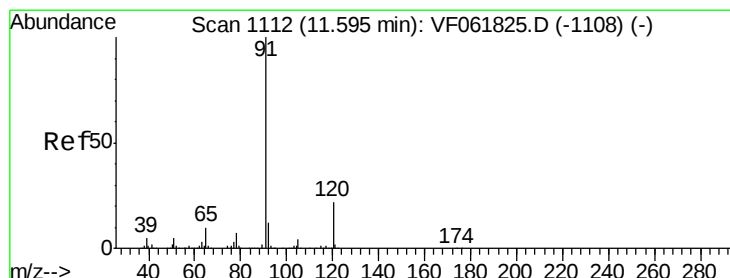
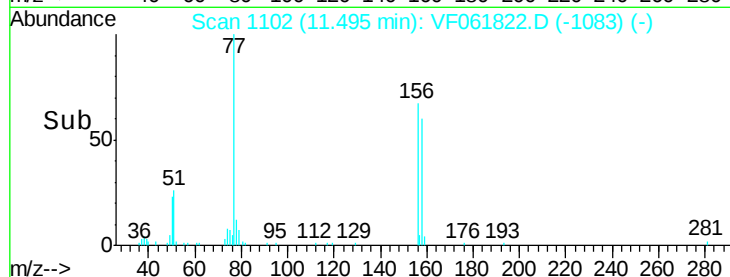
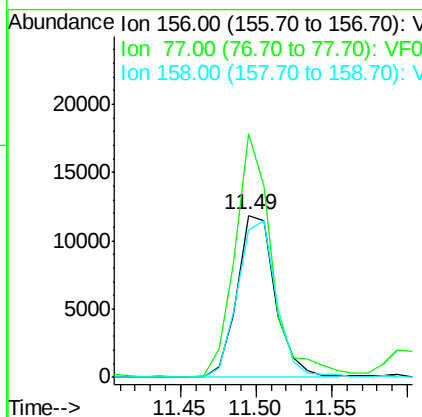
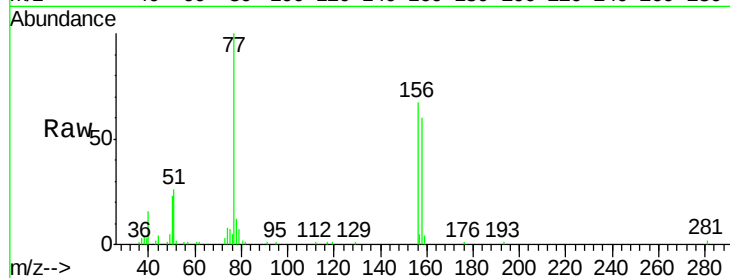
ClientSampleId :

VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	150.1	64.3	192.7	
158	90.6	50.9	152.7	

Manual Integrations
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#78

n-propylbenzene

Concen: 4.967 ug/l

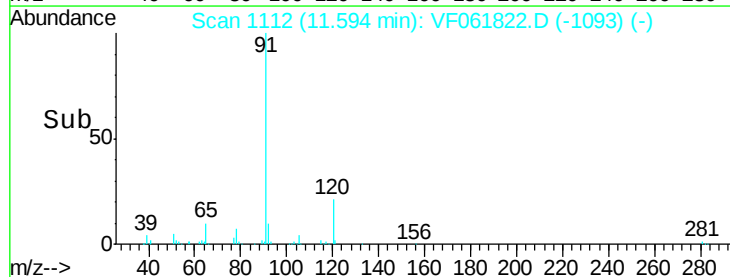
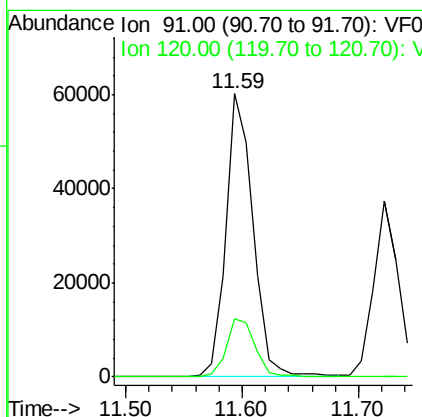
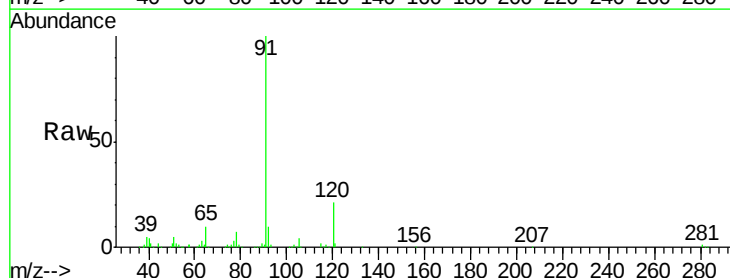
RT: 11.59 min Scan# 1112

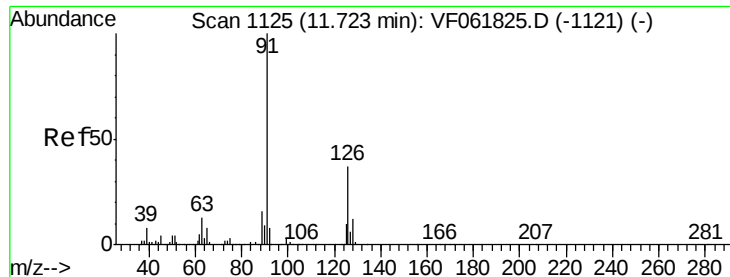
Delta R.T. -0.01 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	20.7	12.1	36.3	





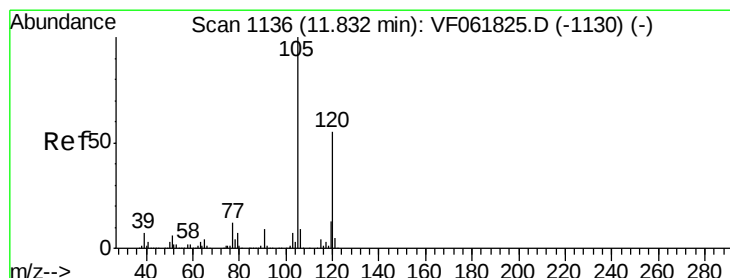
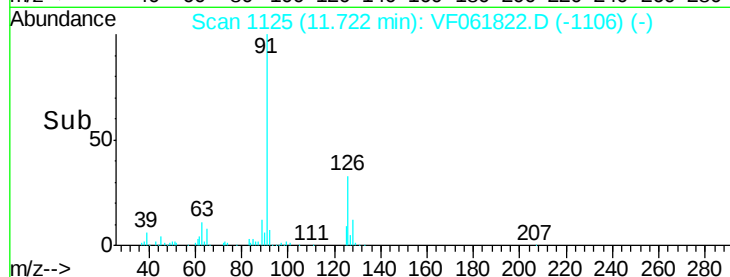
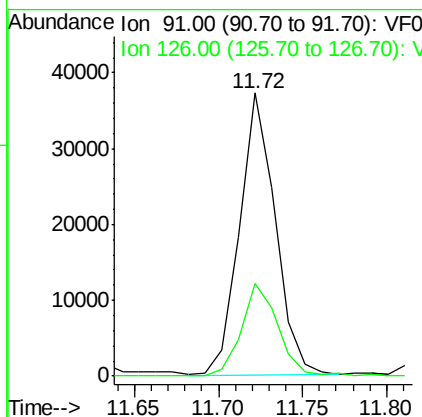
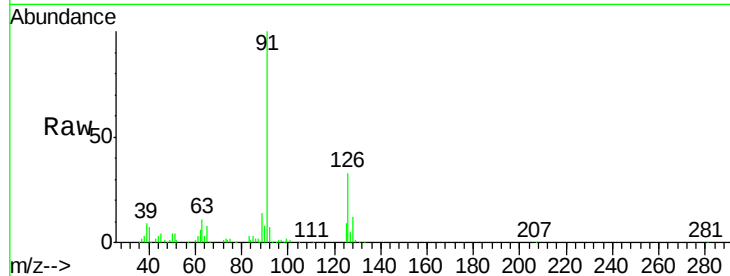
#79
2-Chlorotoluene
Concen: 4.971 ug/l
RT: 11.72 min Scan# 1125
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 54573
Ion Ratio Lower Upper
91 100
126 32.9 19.8 59.4

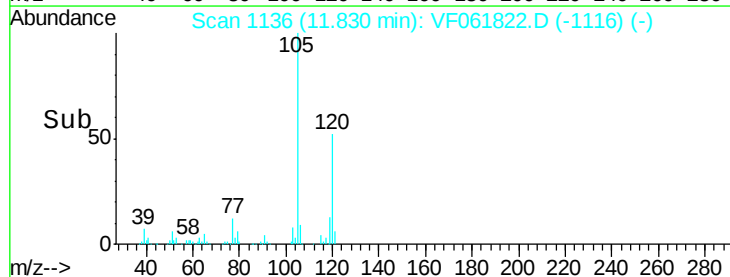
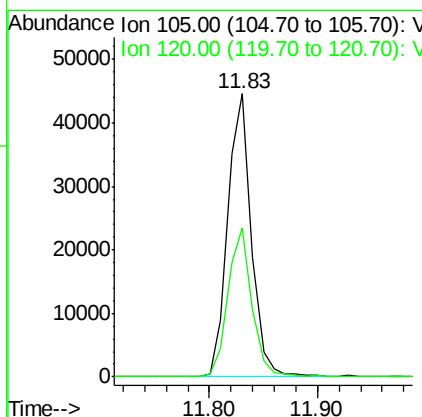
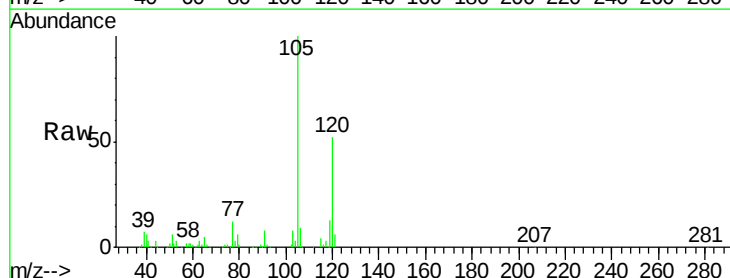
Manual Integrations
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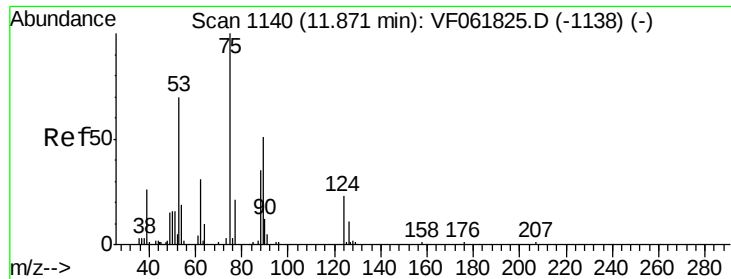
MMDadoda
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#80
1,3,5-Trimethylbenzene
Concen: 4.994 ug/l
RT: 11.83 min Scan# 1136
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion: 105 Resp: 68185
Ion Ratio Lower Upper
105 100
120 52.4 27.9 83.6





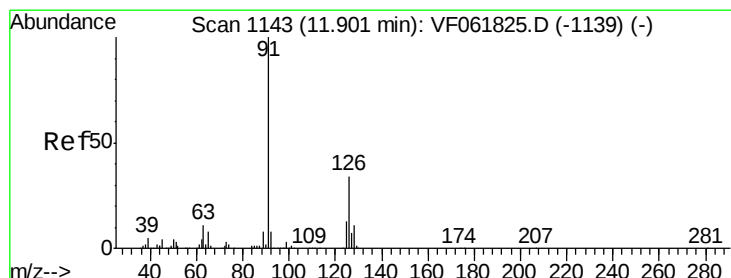
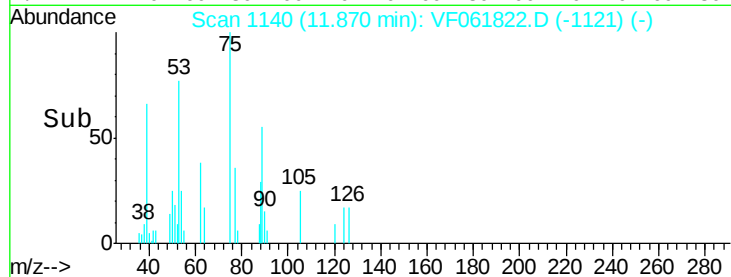
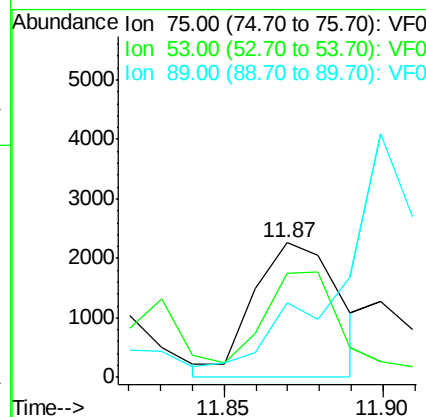
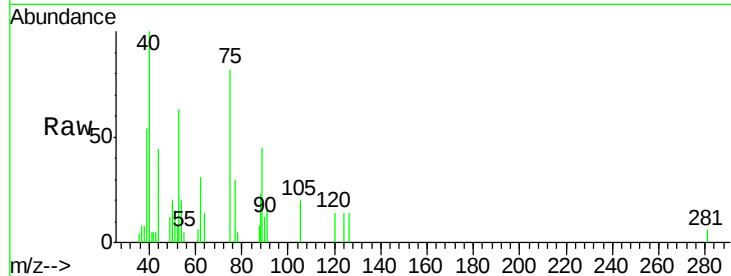
#81
trans-1,4-Dichloro-2-butene
Concen: 4.213 ug/l m
RT: 11.87 min Scan# 1140
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	77.2	53.7	80.5
89	55.3	41.6	62.4

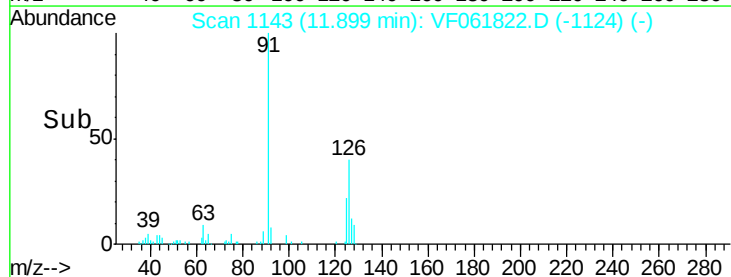
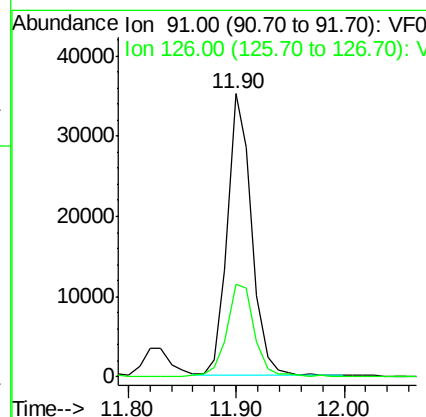
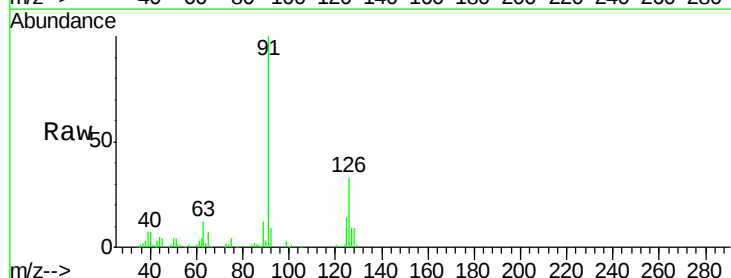
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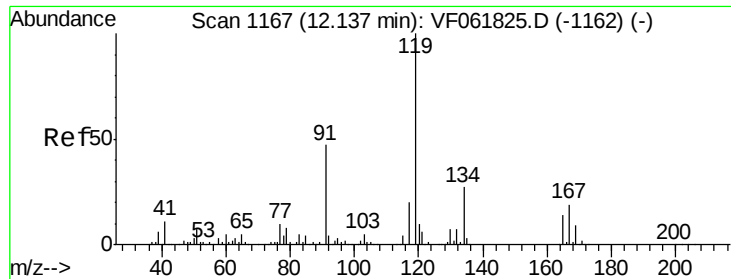
MMDadoda
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#82
4-Chlorotoluene
Concen: 4.796 ug/l
RT: 11.90 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.7	19.1	57.1





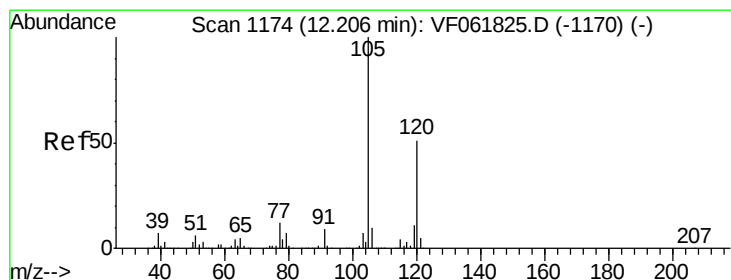
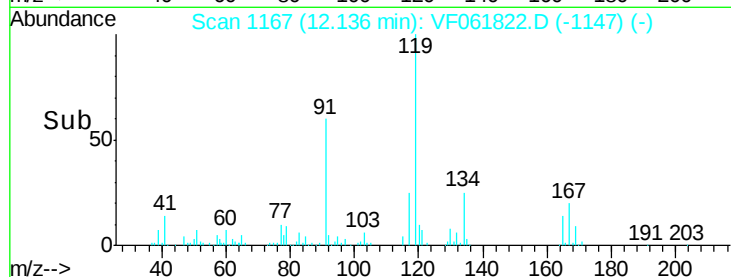
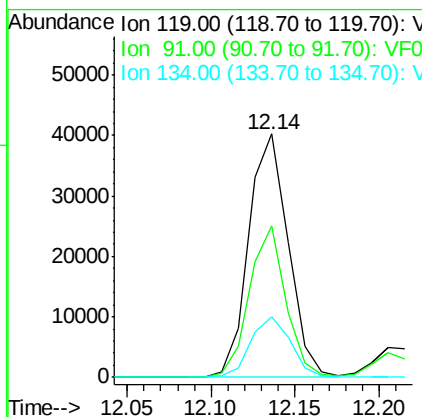
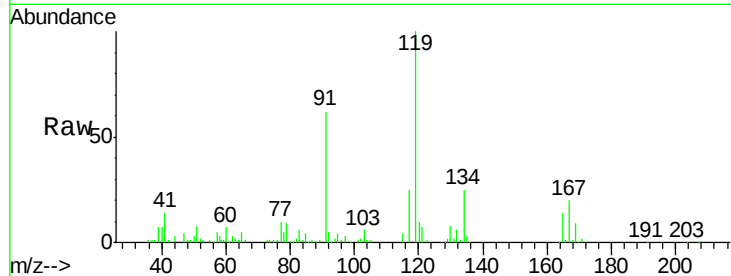
#83
 tert-Butylbenzene
 Concen: 4.344 ug/l
 RT: 12.14 min Scan# 1167
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	62.0	26.3	78.8
134	25.1	12.9	38.7

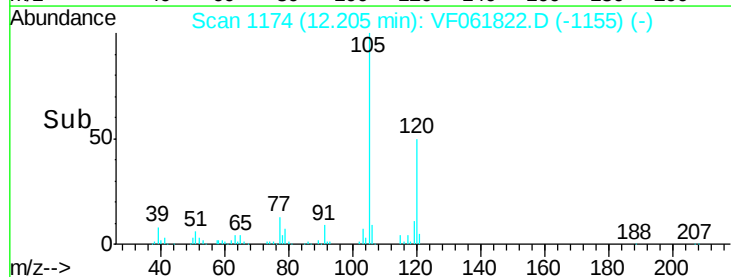
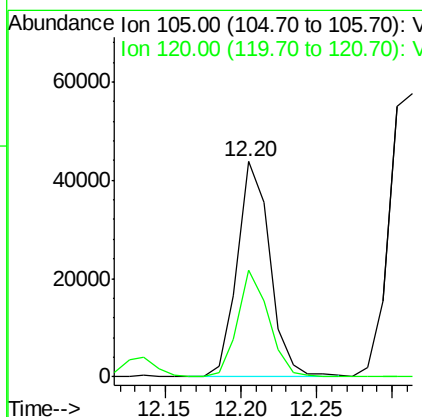
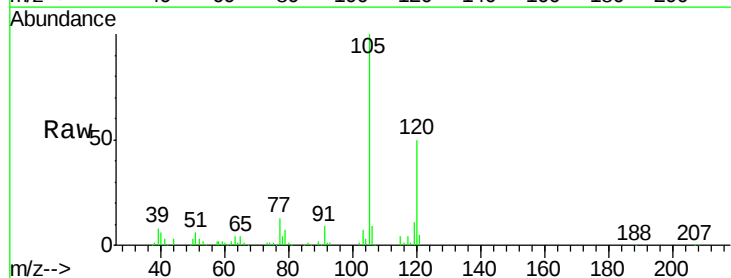
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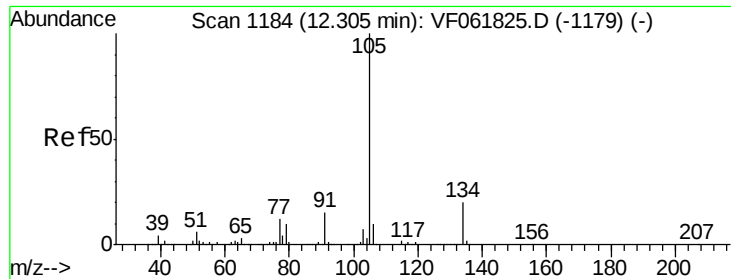
MMDadoda
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#84
 1,2,4-Trimethylbenzene
 Concen: 4.886 ug/l
 RT: 12.20 min Scan# 1174
 Delta R.T. -0.01 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.8	26.1	78.3





#85

sec-Butylbenzene

Concen: 4.772 ug/l

RT: 12.31 min Scan# 1185

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 93320

Ion Ratio Lower Upper

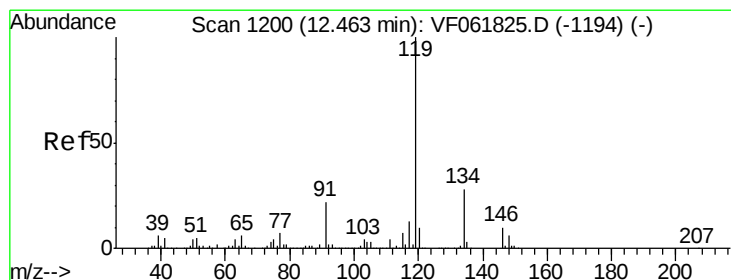
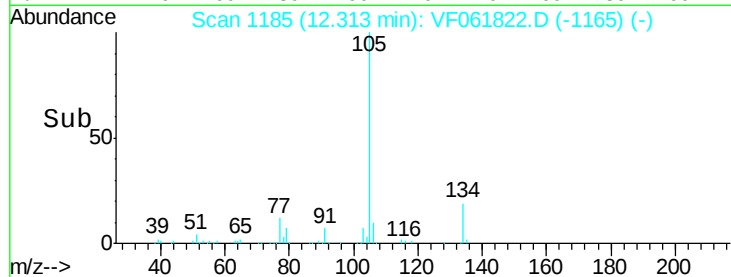
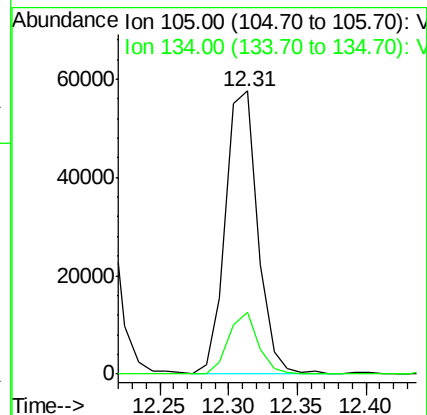
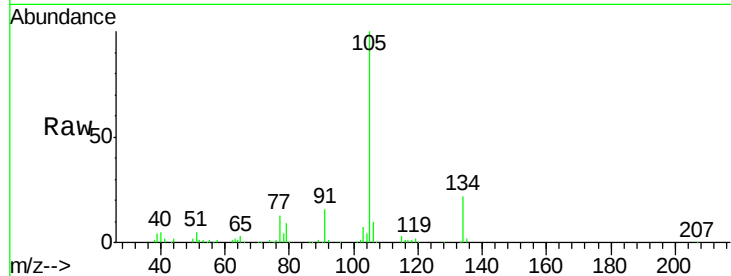
105 100

134 22.0 10.8 32.4

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#86

p-Isopropyltoluene

Concen: 4.924 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

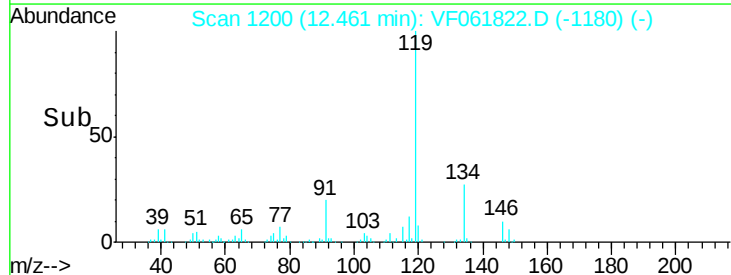
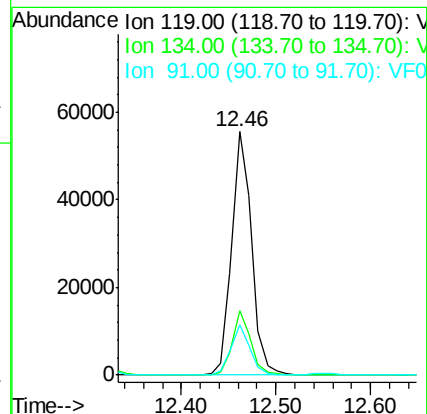
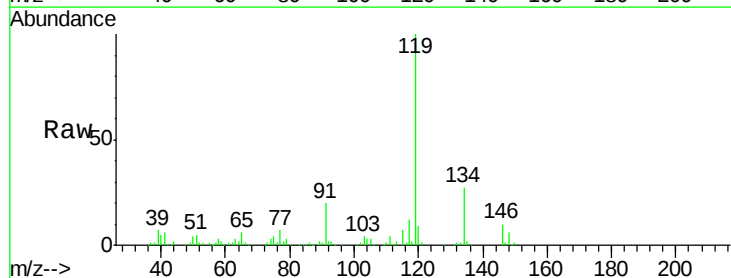
Tgt Ion:119 Resp: 80815

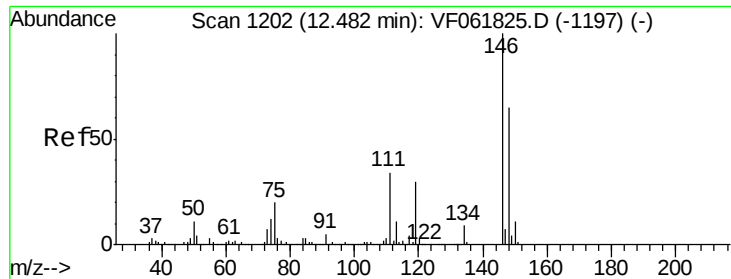
Ion Ratio Lower Upper

119 100

134 26.7 13.7 41.1

91 20.5 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 4.955 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Instrument :

MSVOA_F

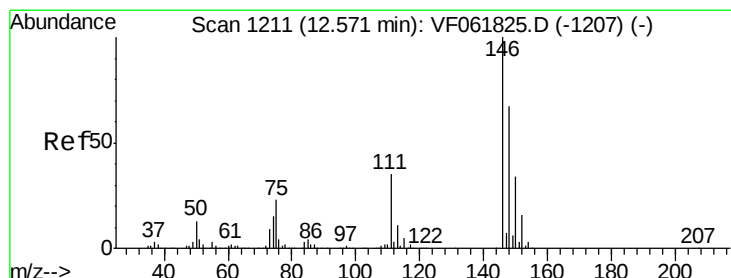
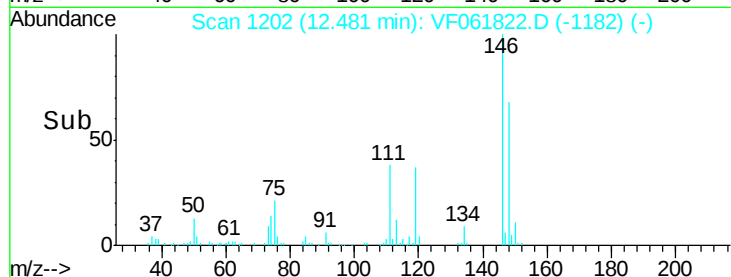
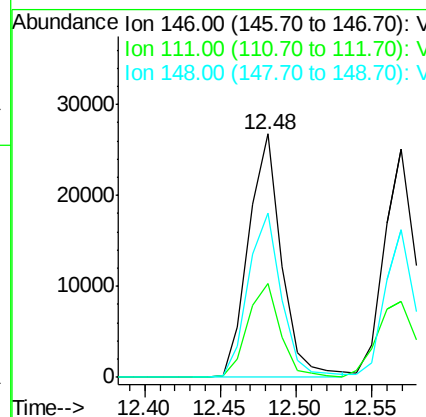
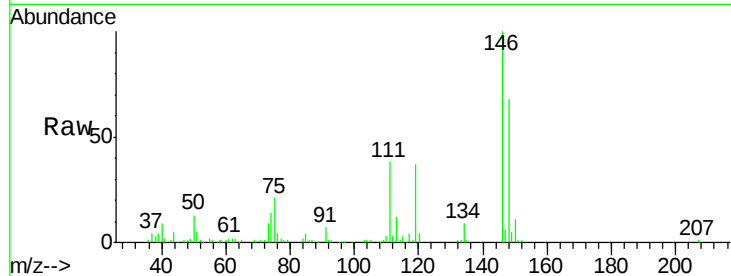
ClientSampleId :

VSTDIC005

Tot Ion:	146	Resp:	40766
Ion Ratio	Lower	Upper	
146	100		
111	38.3	17.5	52.6
148	67.6	31.4	94.3

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 4.708 ug/l

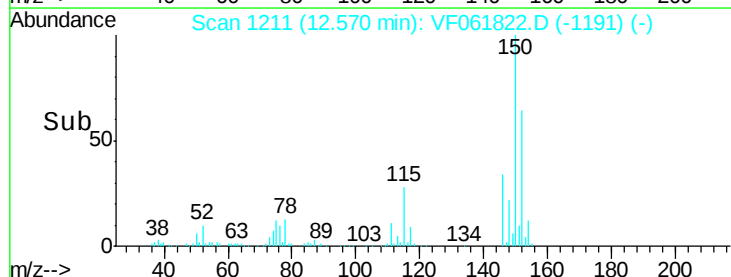
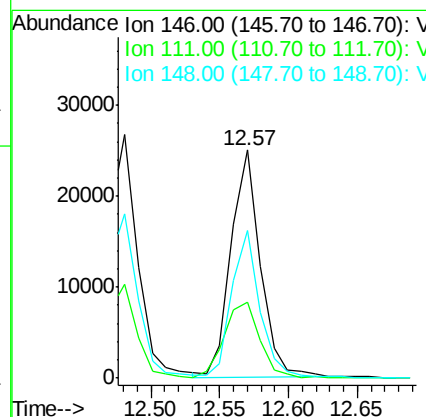
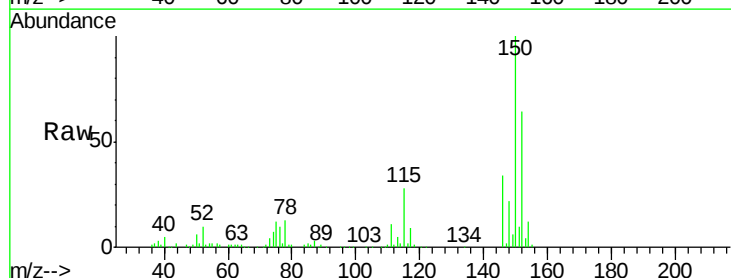
RT: 12.57 min Scan# 1211

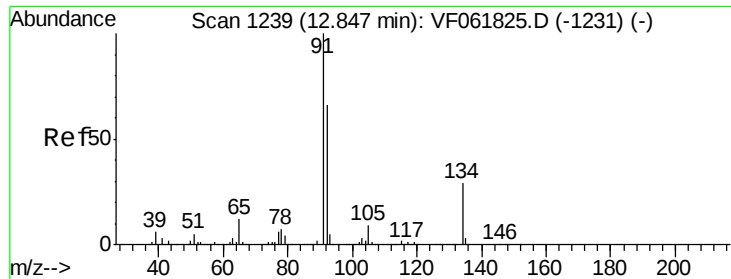
Delta R.T. 0.00 min

Lab File: VF061822.D

Acq: 4 Mar 2019 16:04

Tgt Ion:	146	Resp:	37255
Ion Ratio	Lower	Upper	
146	100		
111	33.1	18.4	55.4
148	64.7	32.2	96.6





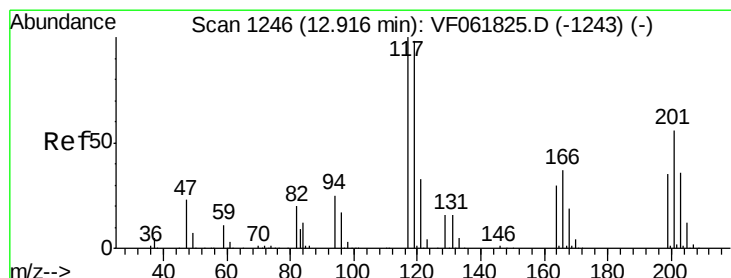
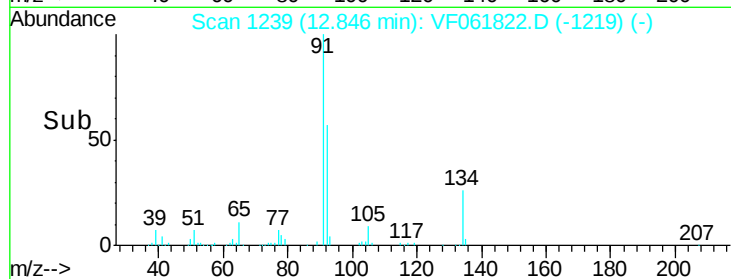
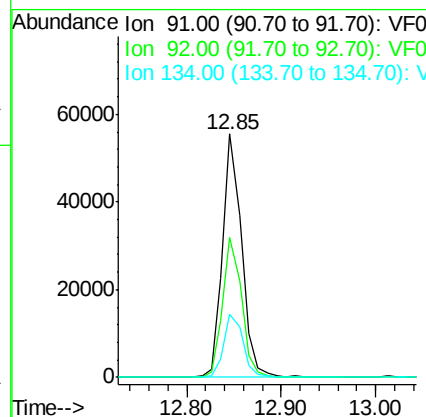
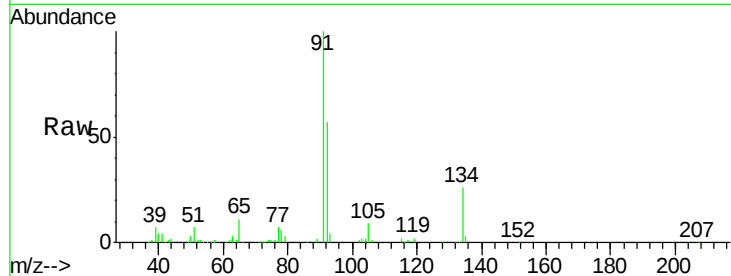
#89
n-Butylbenzene
Concen: 5.033 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	57.5	31.4	94.3
134	25.7	12.3	36.9

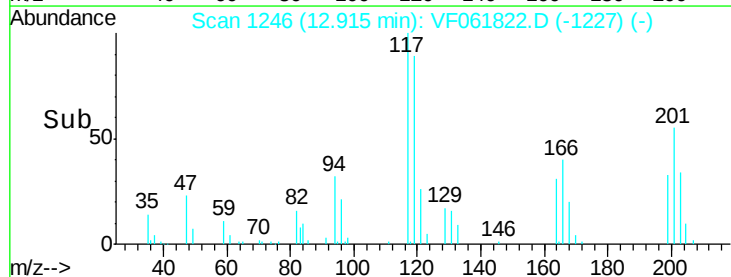
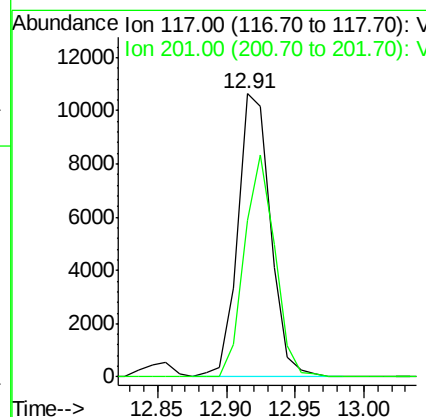
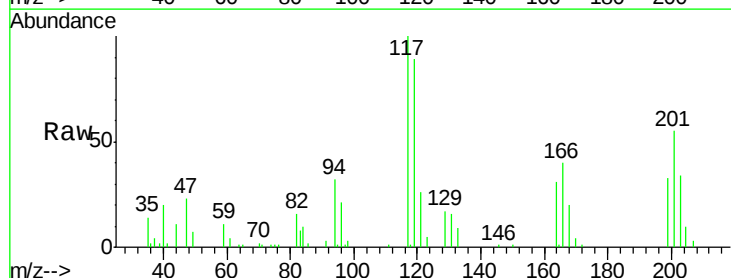
Manual Integrations
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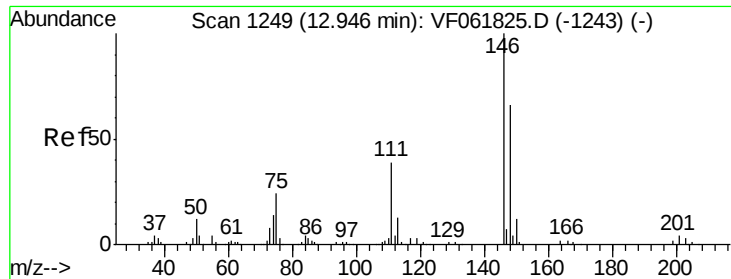
MMDadoda
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#90
Hexachloroethane
Concen: 4.628 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	55.4	36.2	108.6





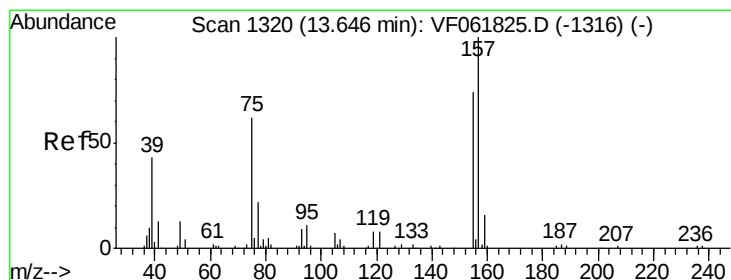
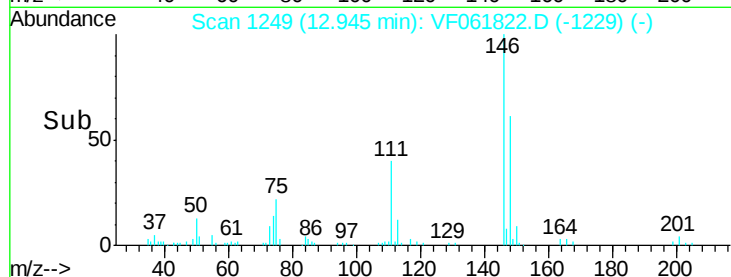
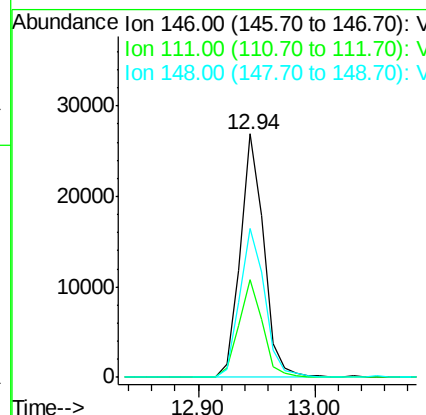
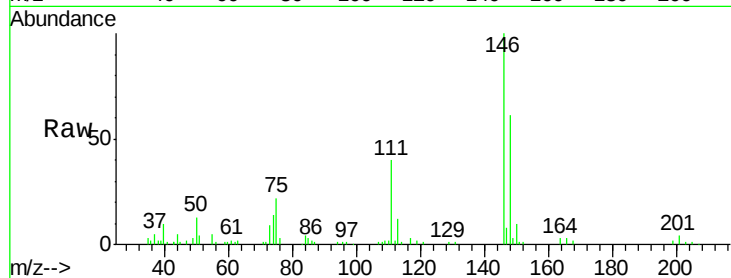
#91
 1,2-Dichlorobenzene
 Concen: 4.828 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.2	60.5
148	61.1	32.3	96.9

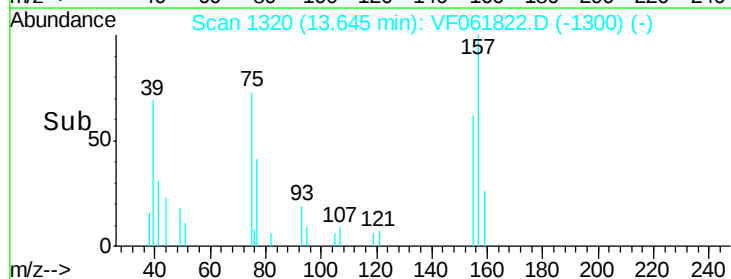
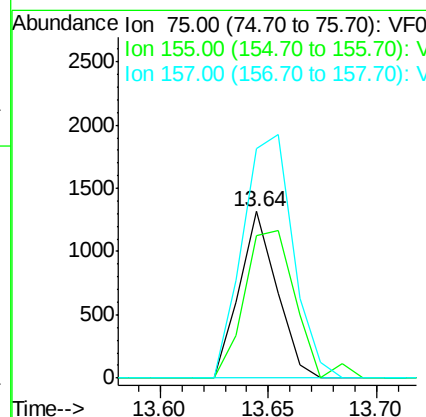
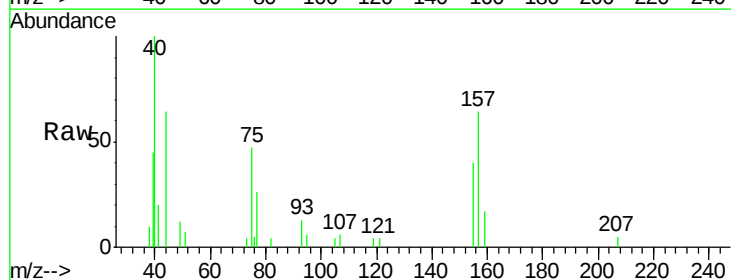
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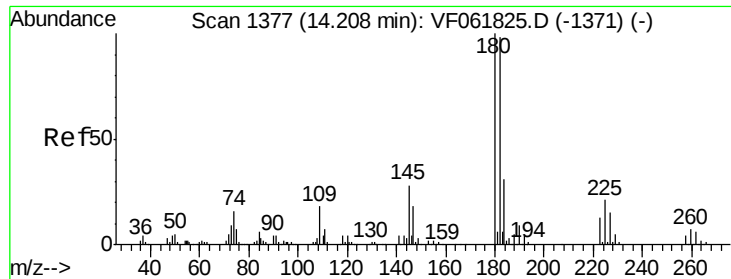
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.287 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.7	48.9	146.8
157	137.9	58.3	174.8





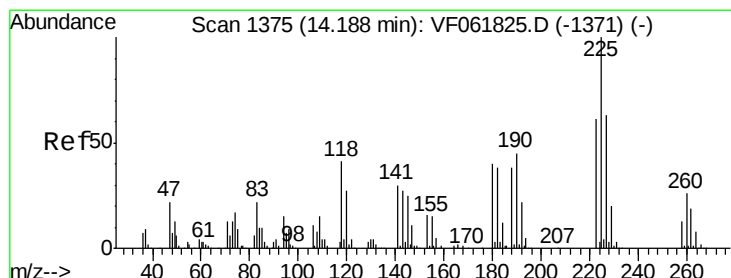
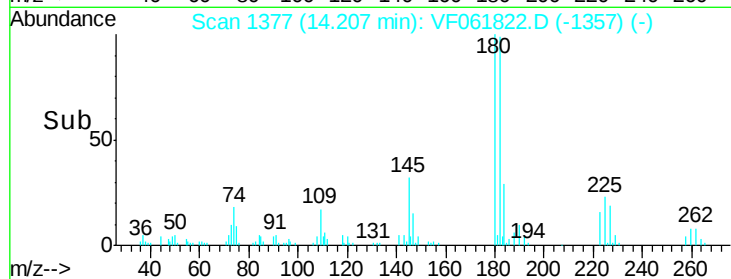
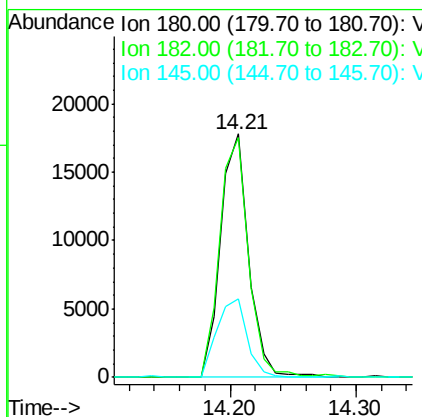
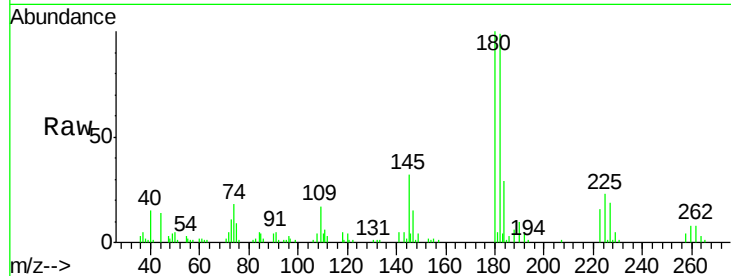
#93
 1,2,4-Trichlorobenzene
 Concen: 4.902 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100	27495		
182	98.6	48.6	145.9	
145	32.3	15.3	45.9	

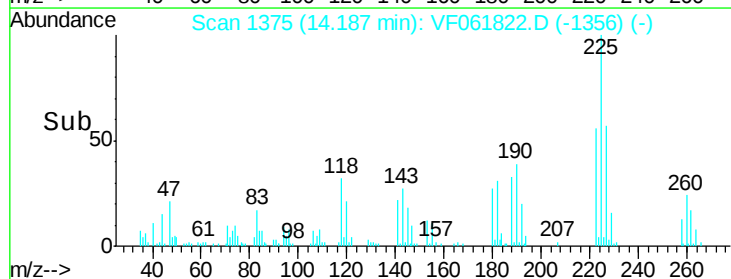
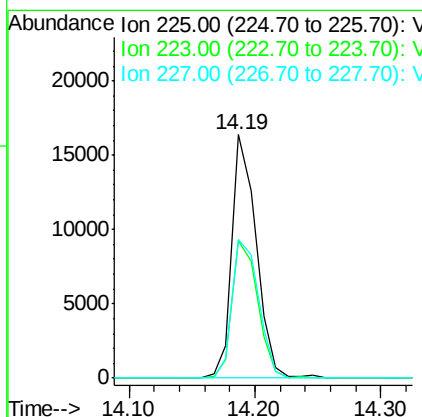
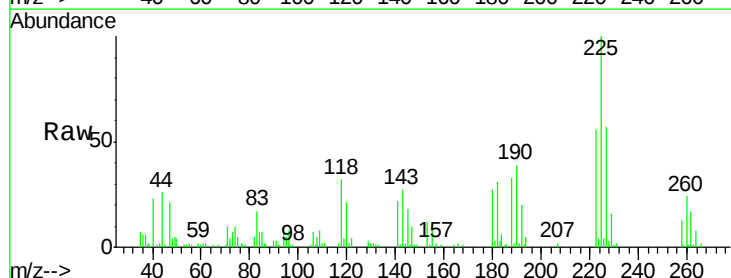
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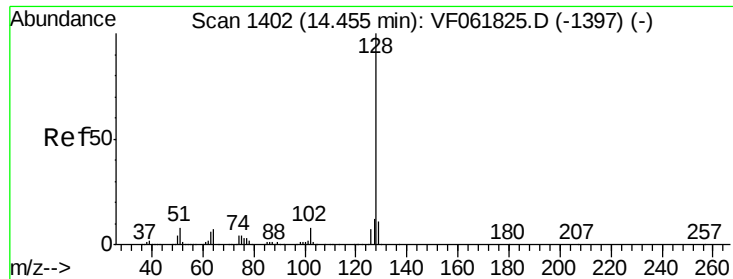
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#94
 Hexachlorobutadiene
 Concen: 6.295 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061822.D
 Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	21807		
223	56.3	30.9	92.7	
227	57.2	32.1	96.3	





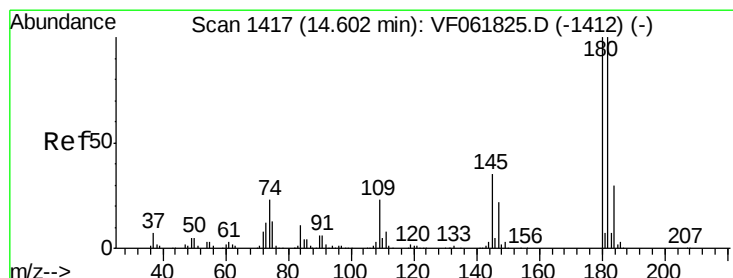
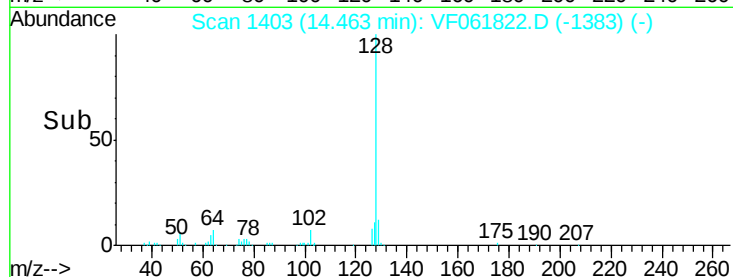
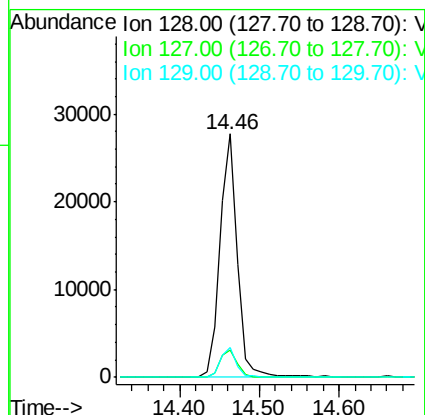
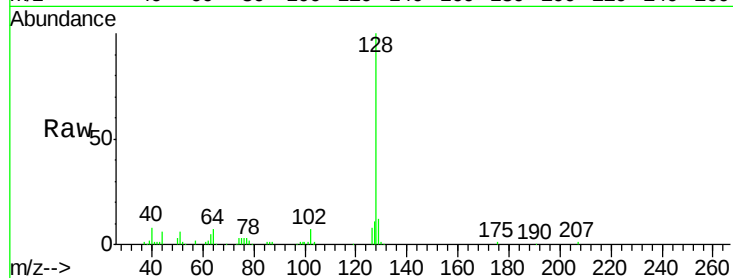
#95
Naphthalene
Concen: 4.356 ug/l
RT: 14.46 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.2	9.8	14.6
129	12.4	9.4	14.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 4.241 ug/l
RT: 14.61 min Scan# 1418
Delta R.T. 0.00 min
Lab File: VF061822.D
Acq: 4 Mar 2019 16:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	106.1	49.0	147.2
145	28.1	15.4	46.1

