

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF030419\
 Data File : VF061831.D
 Acq On : 4 Mar 2019 21:19
 Operator : VA/AP
 Sample : VF0304SBSD01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBSD01

Manual Integrations
 APPROVED

MMDadoda
 3/5/2019 10:48:16 AM

Quant Time: Mar 05 05:42:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F030419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 05 04:04:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	310918	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	455386	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	391447	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	198057	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	113480	49.77	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	99.54%	
35) Dibromofluoromethane	4.11	113	148182	43.82	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	87.64%	
50) Toluene-d8	7.55	98	423674	43.58	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	87.16%	
62) 4-Bromofluorobenzene	11.40	95	167950	42.70	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	85.40%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	87413	24.482	ug/l	98
3) Chloromethane	1.09	50	81705	21.810	ug/l	98
4) Vinyl Chloride	1.14	62	74712	21.453	ug/l	99
5) Bromomethane	1.33	94	49569	20.680	ug/l	90
6) Chloroethane	1.41	64	35693	20.797	ug/l	97
7) Trichlorofluoromethane	1.47	101	95213m	22.667	ug/l	
8) Diethyl Ether	1.63	74	20462	19.330	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.85	101	62593	20.656	ug/l #	88
10) Methyl Iodide	1.92	142	120761m	20.862	ug/l	
11) Tert butyl alcohol	2.58	59	15188	115.102	ug/l	98
12) 1,1-Dichloroethene	1.81	96	54995	20.642	ug/l	91
13) Acrolein	2.01	56	15418m	92.969	ug/l	
14) Allyl chloride	2.10	41	56149	17.174	ug/l	96
15) Acrylonitrile	2.94	53	41668	89.027	ug/l	98
16) Acetone	2.24	43	46496	95.047	ug/l	95
17) Carbon Disulfide	1.84	76	177933m	21.247	ug/l	
18) Methyl Acetate	2.35	43	22372	20.301	ug/l	93
19) Methyl tert-butyl Ether	2.43	73	95078	20.881	ug/l	94
20) Methylene Chloride	2.26	84	65011m	22.000	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	46191	15.949	ug/l	95
22) Diisopropyl ether	2.80	45	171329	21.831	ug/l	96
23) Vinyl Acetate	3.19	43	385281	100.514	ug/l	95
24) 1,1-Dichloroethane	2.87	63	96055	20.225	ug/l	98
25) 2-Butanone	4.34	43	97985	91.700	ug/l	97
26) 2,2-Dichloropropane	3.59	77	39146	19.459	ug/l	94
27) cis-1,2-Dichloroethene	3.48	96	68950	18.137	ug/l	95
28) Bromochloromethane	3.71	49	41035	18.008	ug/l	87
29) Tetrahydrofuran	4.08	42	45904	94.519	ug/l	95
30) Chloroform	3.86	83	105565	19.546	ug/l	99
31) Cyclohexane	3.68	56	102173m	19.873	ug/l	
32) 1,1,1-Trichloroethane	4.09	97	58851	16.634	ug/l	97
36) 1,1-Dichloropropene	4.28	75	94943	21.046	ug/l	93
37) Ethyl Acetate	4.12	43	42685	20.372	ug/l	99
38) Carbon Tetrachloride	3.98	117	61699	19.807	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	106054	19.878	ug/l	99
40) Benzene	4.63	78	227424	19.274	ug/l	100
41) Methacrylonitrile	4.75	41	22372	20.878	ug/l	94
42) 1,2-Dichloroethane	4.95	62	58111	20.588	ug/l	92
43) Isopropyl Acetate	6.96	43	46025	18.557	ug/l #	85
44) Trichloroethene	5.50	130	75845	19.877	ug/l	96
45) 1,2-Dichloropropane	6.24	63	55615	19.499	ug/l	93
46) Dibromomethane	6.08	93	35299	20.101	ug/l	87
47) Bromodichloromethane	6.39	83	77336	20.110	ug/l	98
48) Methyl methacrylate	6.72	41	28967	19.408	ug/l	87
49) 1,4-Dioxane	6.71	88	5668	403.968	ug/l #	81
51) 4-Methyl-2-Pentanone	8.26	43	176659	99.684	ug/l	99
52) Toluene	7.62	92	140702	19.661	ug/l	94
53) t-1,3-Dichloropropene	8.28	75	64529	20.161	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	88531	20.766	ug/l	96
55) 1,1,2-Trichloroethane	8.49	97	39523	18.797	ug/l	93
56) Ethyl methacrylate	8.62	69	47121	20.129	ug/l	94
57) 1,3-Dichloropropane	8.85	76	63647	18.136	ug/l	90
58) 2-Chloroethyl Vinyl ether	7.29	63	38218	94.623	ug/l	94
59) 2-Hexanone	9.49	43	119622	96.294	ug/l	97
60) Dibromochloromethane	8.71	129	53544	18.296	ug/l	96
61) 1,2-Dibromoethane	8.99	107	44854	19.668	ug/l	94
64) Tetrachloroethene	8.15	164	64069	20.024	ug/l	97
65) Chlorobenzene	9.80	112	159853	20.124	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.93	131	63420	20.375	ug/l	95
67) Ethyl Benzene	9.90	91	263600	19.955	ug/l	99
68) m/p-Xylenes	10.13	106	199819	39.525	ug/l	97
69) o-Xylene	10.71	106	108520	20.117	ug/l	95
70) Styrene	10.78	104	147295	19.301	ug/l	98
71) Bromoform	10.77	173	34077	20.161	ug/l	95
73) Isopropylbenzene	11.12	105	316583	22.451	ug/l	99
74) N-amyl acetate	11.37	43	78353	23.149	ug/l	94
75) 1,1,2,2-Tetrachloroethane	11.69	83	54748	21.671	ug/l	97
76) 1,2,3-Trichloropropane	11.79	75	35751	20.815	ug/l	100
77) Bromobenzene	11.49	156	72219	20.731	ug/l	93
78) n-propylbenzene	11.59	91	341887	21.128	ug/l	99
79) 2-Chlorotoluene	11.72	91	199699	22.036	ug/l	95
80) 1,3,5-Trimethylbenzene	11.82	105	260250	23.092	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.87	75	16769m	20.365	ug/l	
82) 4-Chlorotoluene	11.90	91	204135	21.702	ug/l	95
83) tert-Butylbenzene	12.12	119	278111	22.279	ug/l	95
84) 1,2,4-Trimethylbenzene	12.20	105	256575	22.915	ug/l	96
85) sec-Butylbenzene	12.30	105	345592	21.409	ug/l	94
86) p-Isopropyltoluene	12.46	119	306350	22.613	ug/l	100
87) 1,3-Dichlorobenzene	12.47	146	146103	21.513	ug/l	98
88) 1,4-Dichlorobenzene	12.57	146	135052	20.677	ug/l	97
89) n-Butylbenzene	12.84	91	281641	22.016	ug/l	96
90) Hexachloroethane	12.91	117	73524	23.335	ug/l	87
91) 1,2-Dichlorobenzene	12.94	146	135315	20.948	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.64	75	8418	21.017	ug/l	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	96160	20.768	µg/l	96
94) Hexachlorobutadiene	14.19	225	64074	22.407	µg/l	97
95) Naphthalene	14.45	128	170752	21.078	µg/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	88707	20.873	µg/l	99

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

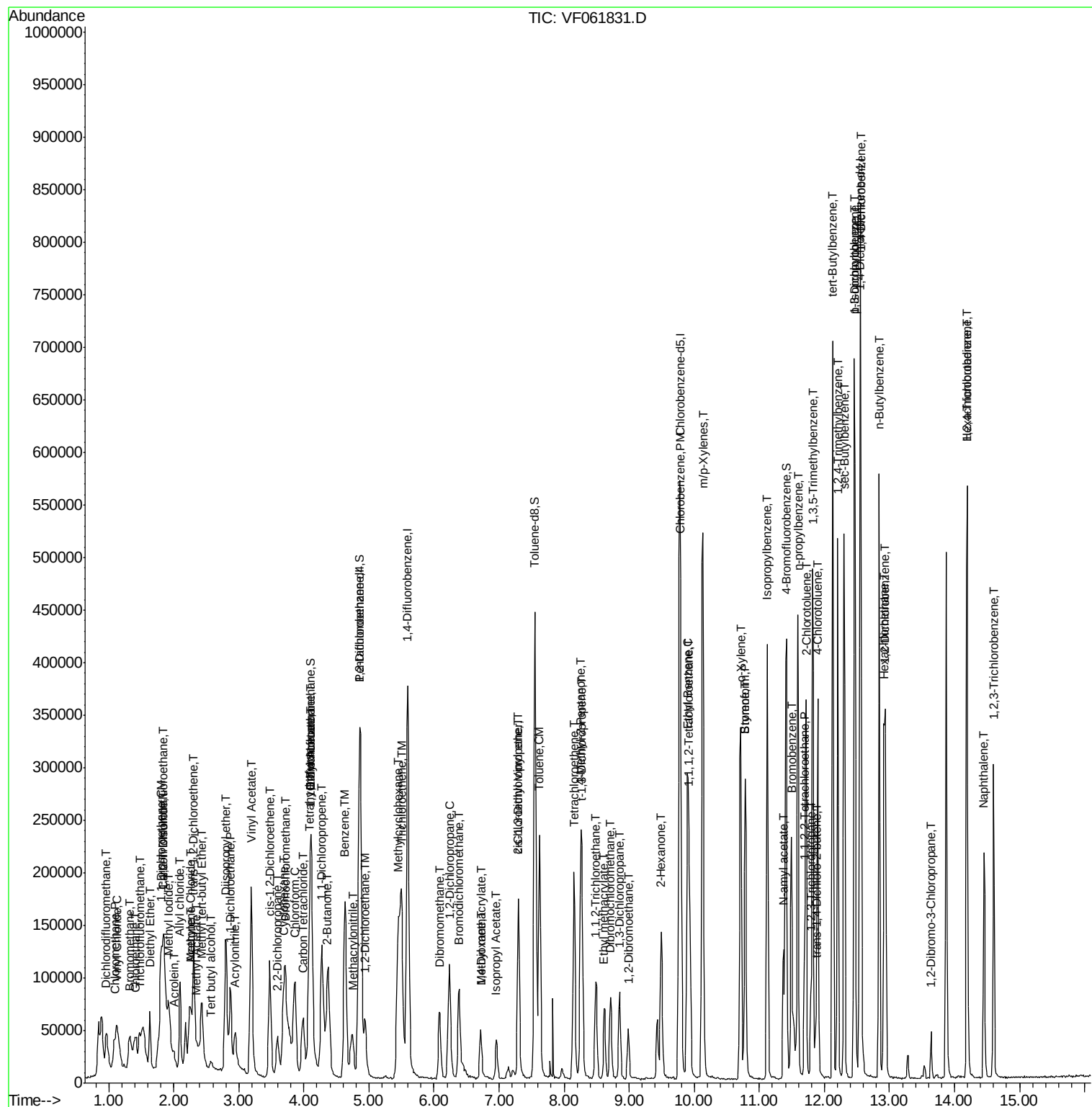
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Data File : VF061831.D
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Operator : VA/AP
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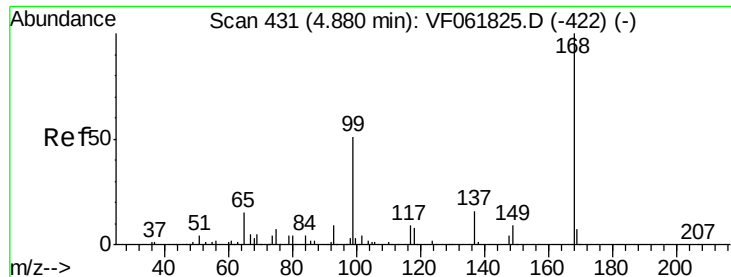
Instrument :
MSVOA_F
ClientSampleId :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBSD01

Tot Ion:168 Resp: 310918

Ion Ratio Lower Upper

168 100

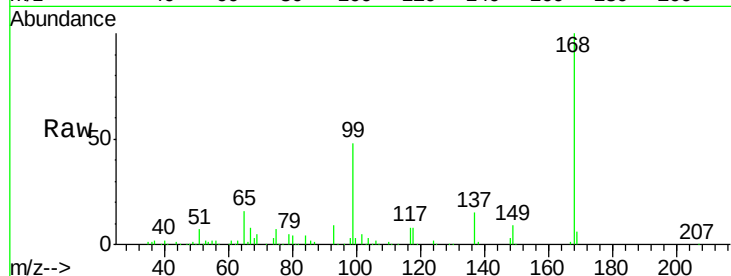
99 48.5 34.9 52.3

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

120000

100000

80000

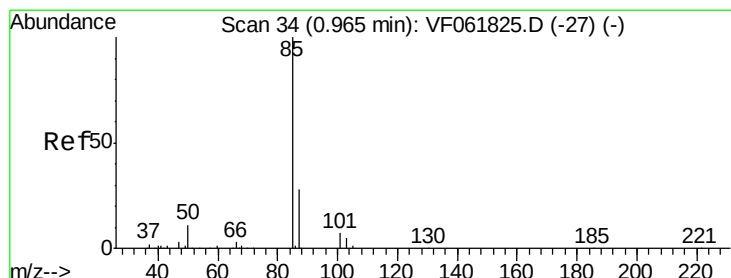
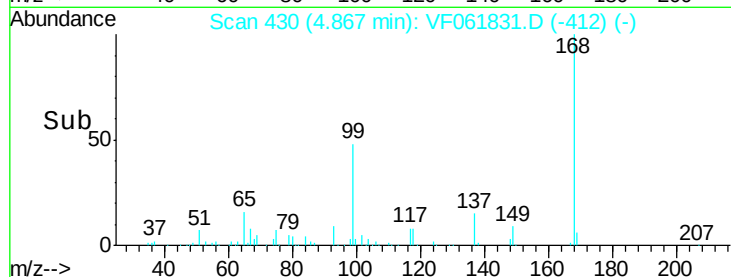
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 24.482 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.00 min

Lab File: VF061831.D

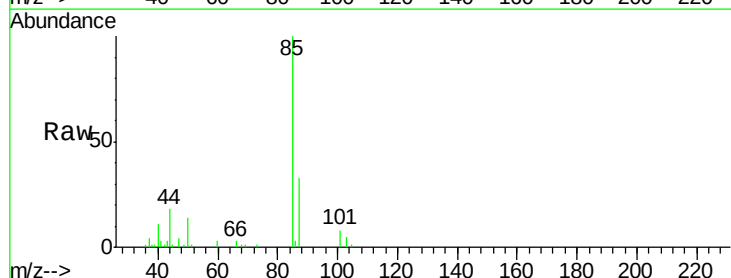
Acq: 4 Mar 2019 21:19

Tgt Ion: 85 Resp: 87413

Ion Ratio Lower Upper

85 100

87 33.3 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

25000

20000

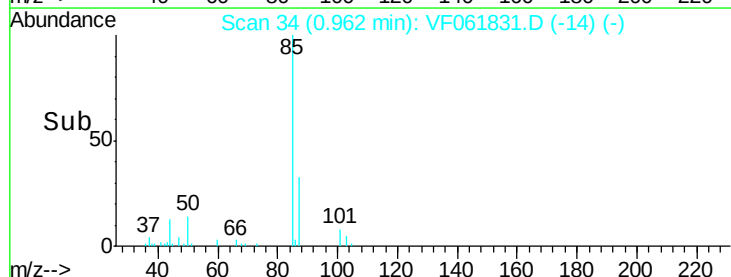
15000

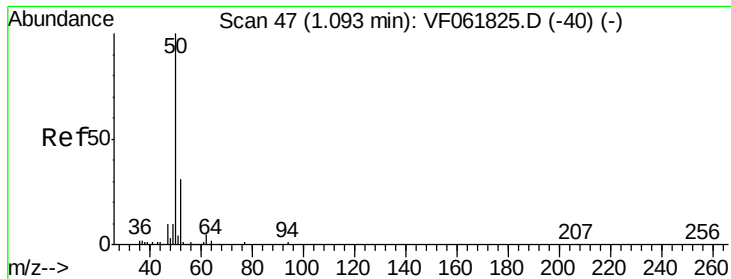
10000

5000

0

Time-->





#3

Chloromethane

Concen: 21.810 ug/l

RT: 1.09 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 50 Resp: 81705

Ion Ratio Lower Upper

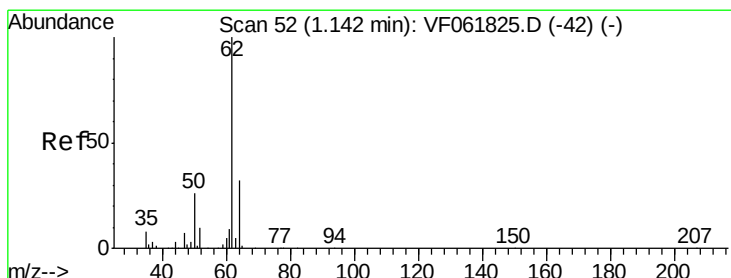
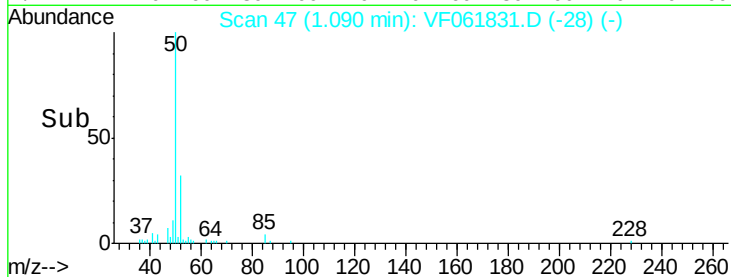
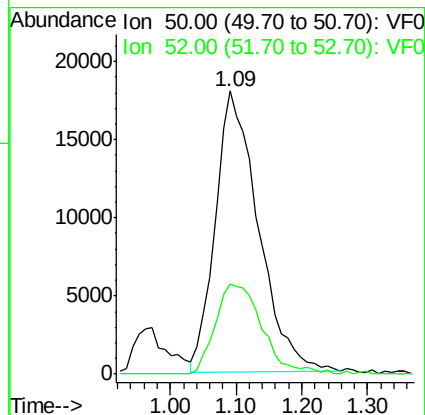
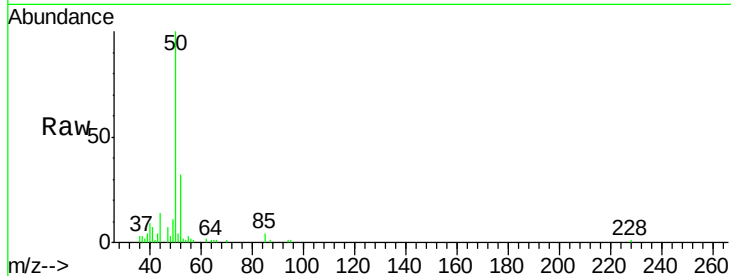
50 100

52 31.7 26.2 39.4

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#4

Vinyl Chloride

Concen: 21.453 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.00 min

Lab File: VF061831.D

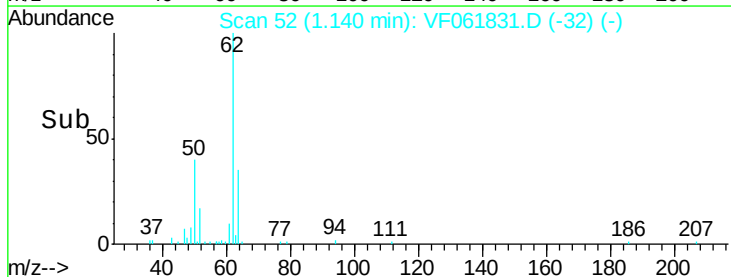
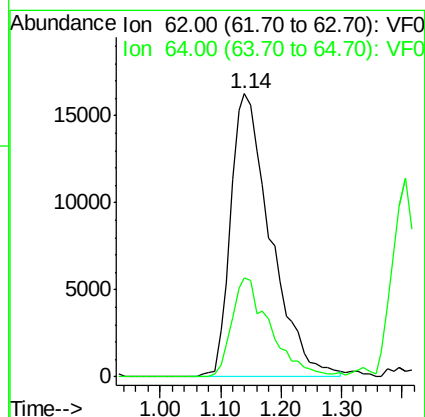
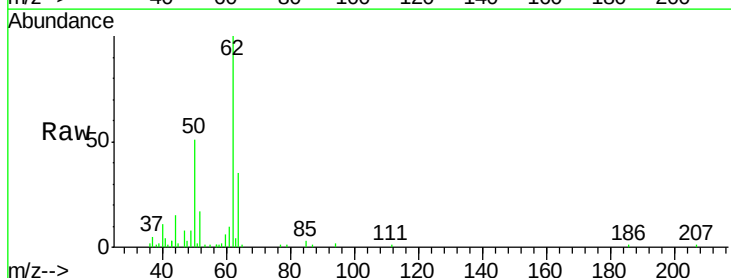
Acq: 4 Mar 2019 21:19

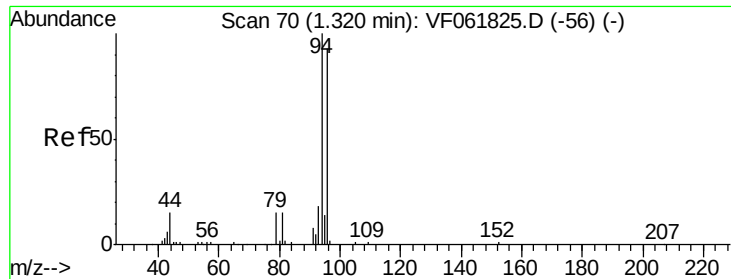
Tgt Ion: 62 Resp: 74712

Ion Ratio Lower Upper

62 100

64 34.9 27.5 41.3





#5

Bromomethane

Concen: 20.680 ug/l

RT: 1.33 min Scan# 71

Delta R.T. 0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 49569

Ion Ratio Lower Upper

94 100

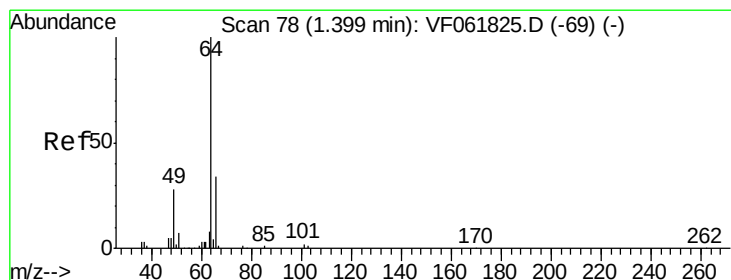
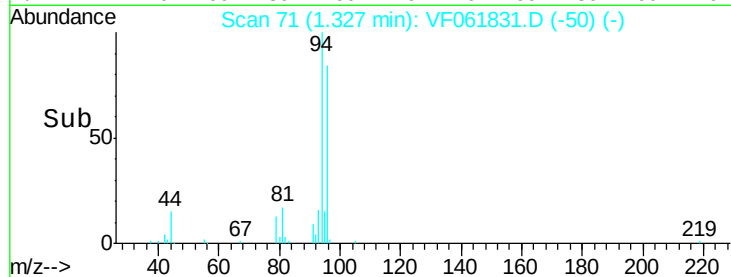
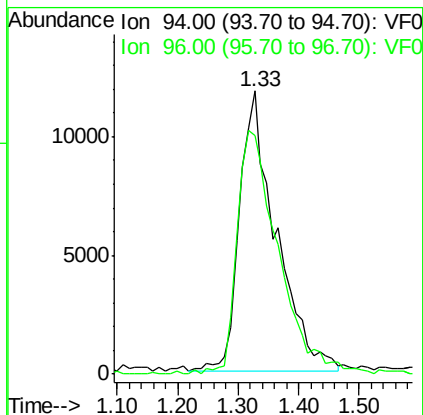
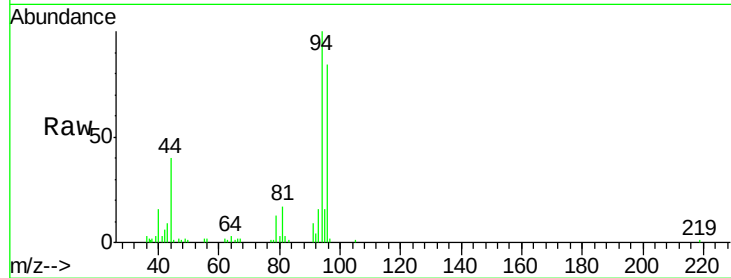
96 84.2 74.6 112.0

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#6

Chloroethane

Concen: 20.797 ug/l

RT: 1.41 min Scan# 79

Delta R.T. 0.01 min

Lab File: VF061831.D

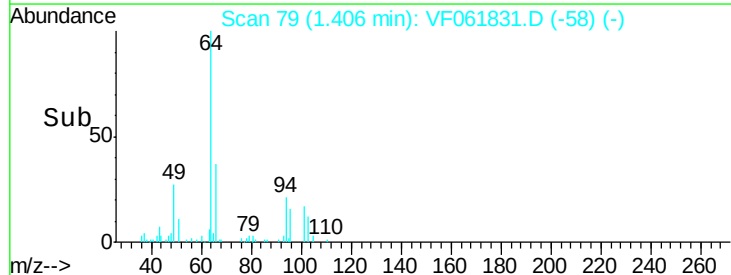
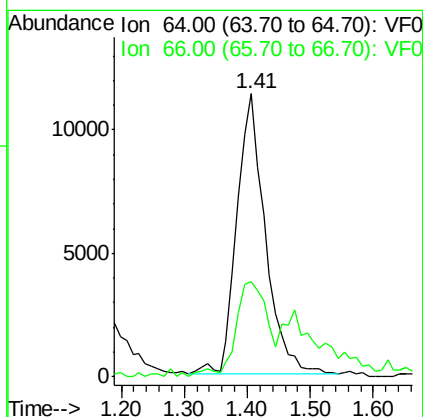
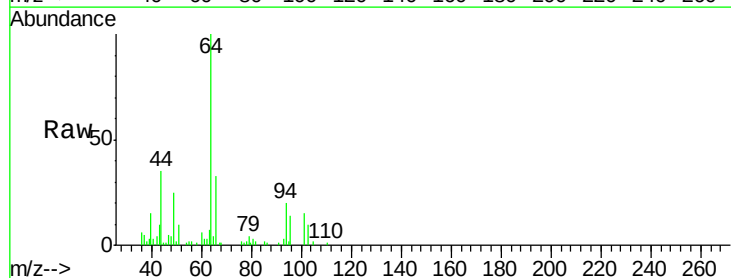
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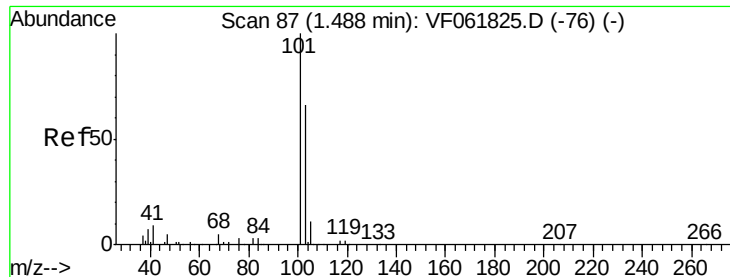
Tgt Ion: 64 Resp: 35693

Ion Ratio Lower Upper

64 100

66 33.4 27.9 41.9





#7

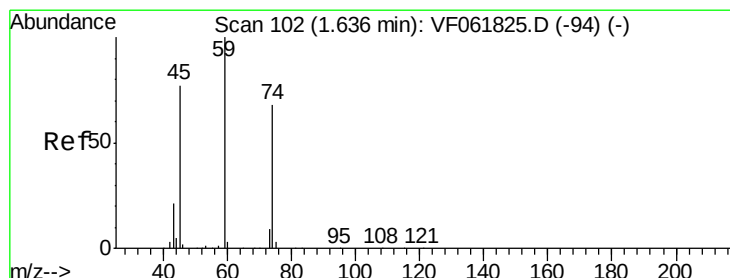
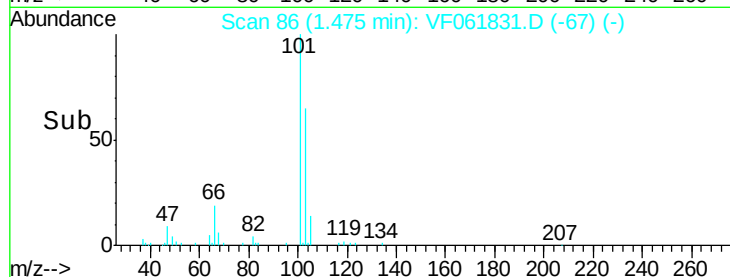
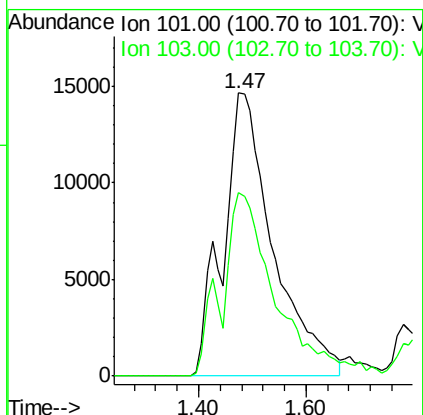
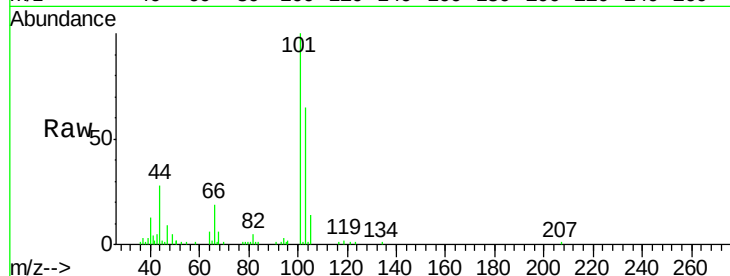
Trichlorofluoromethane
Concen: 22.667 ug/l m
RT: 1.47 min Scan# 86
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

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ClientSampleId :
VF0304SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	49.3	73.9

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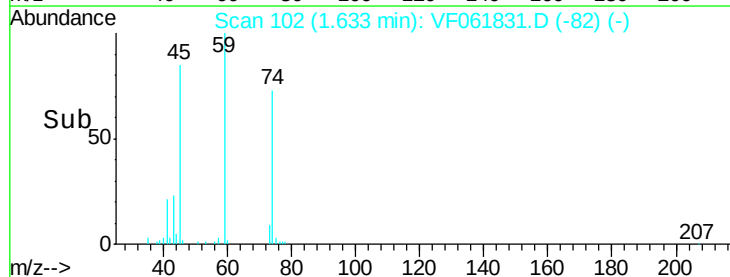
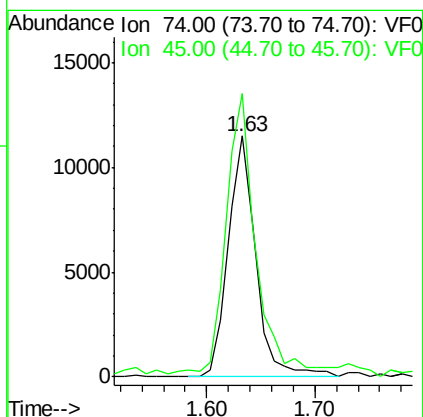
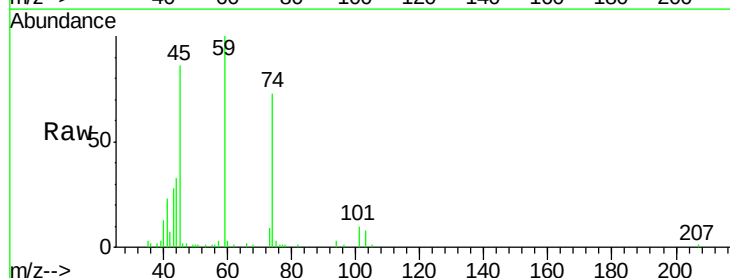
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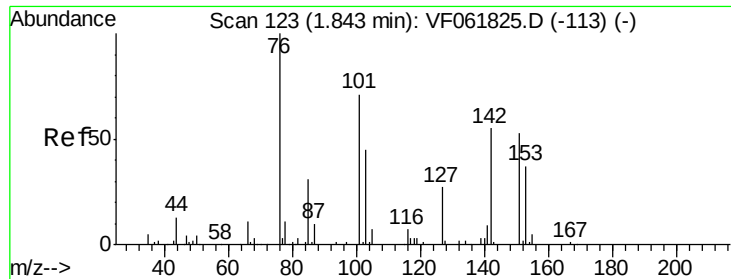


#8

Diethyl Ether
Concen: 19.330 ug/l
RT: 1.63 min Scan# 102
Delta R.T. -0.00 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	117.6	60.8	182.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.656 ug/l

RT: 1.85 min Scan# 124

Delta R.T. 0.01 min

Lab File: VF061831.D

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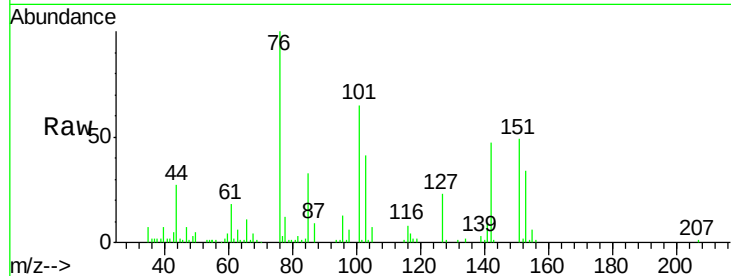
ClientSampleId :

VF0304SBS01

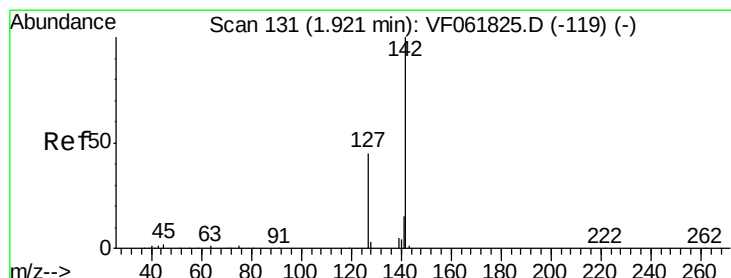
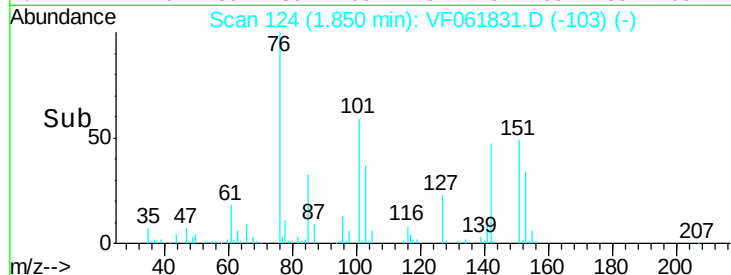
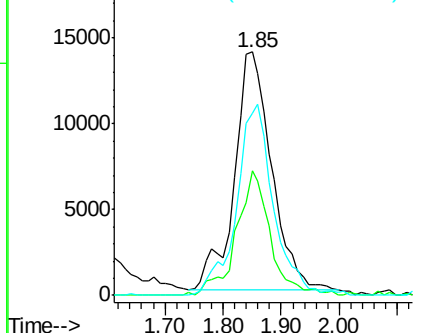
Tot Ion:	101	Resp:	62593
Ion Ratio	Lower	Upper	
101	100		
85	51.1	29.8	44.6#
151	74.9	56.3	84.5

Manual Integrations
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3/5/2019 10:48:16 AM



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



#10

Methyl Iodide

Concen: 20.862 ug/l m

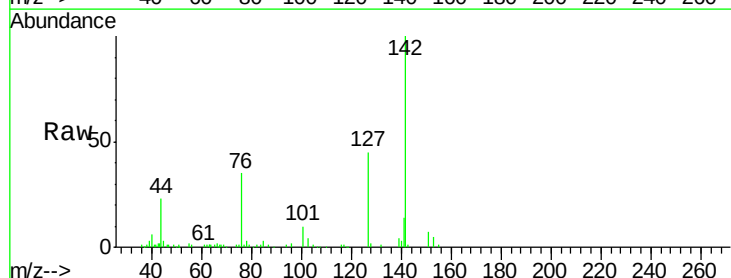
RT: 1.92 min Scan# 131

Delta R.T. 0.01 min

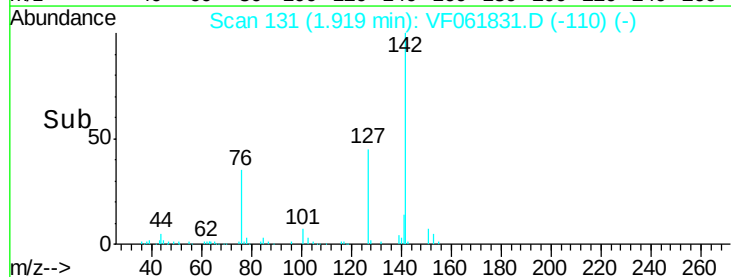
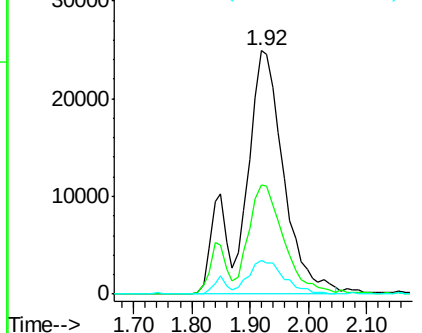
Lab File: VF061831.D

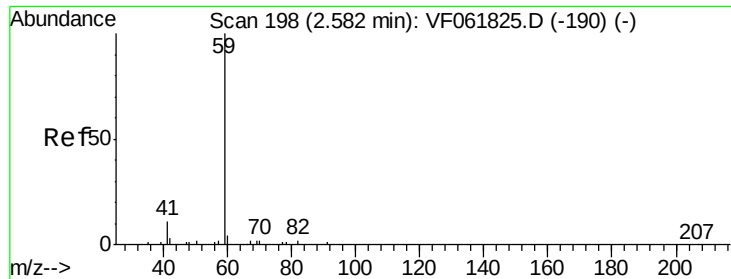
Acq: 4 Mar 2019 21:19

Tgt Ion:	142	Resp:	120761
Ion Ratio	Lower	Upper	
142	100		
127	45.1	36.6	55.0
141	14.1	11.0	16.6



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





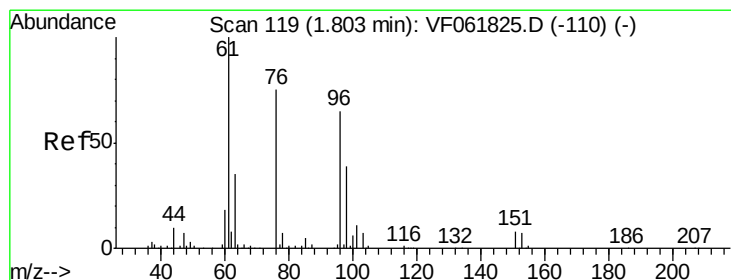
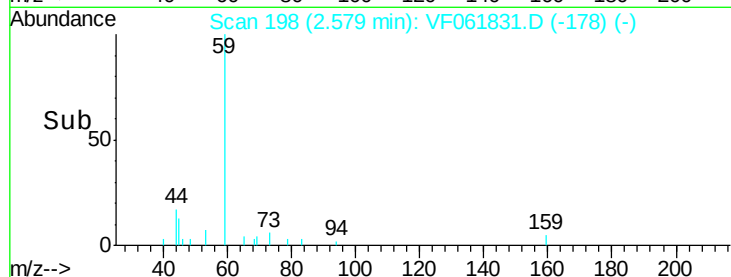
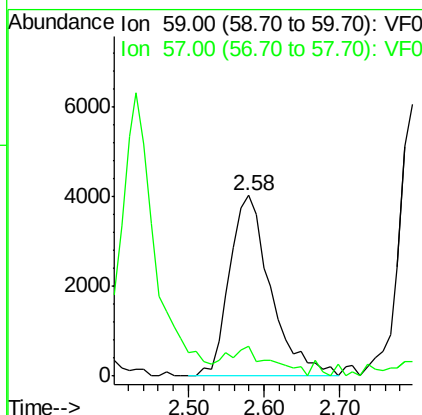
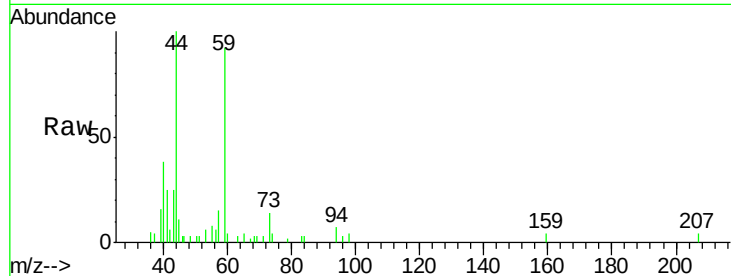
#11
Tert butyl alcohol
Concen: 115.102 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	59	Resp	15188
Ion Ratio	100	Lower	Upper
57	16.5	12.5	18.7

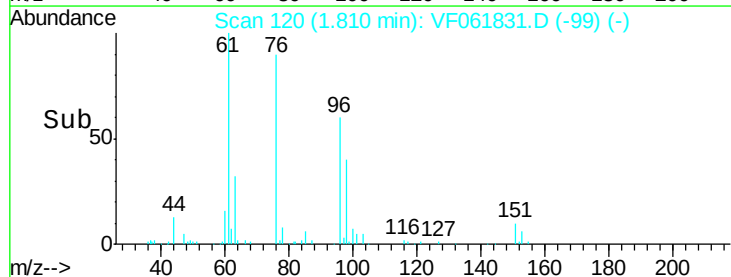
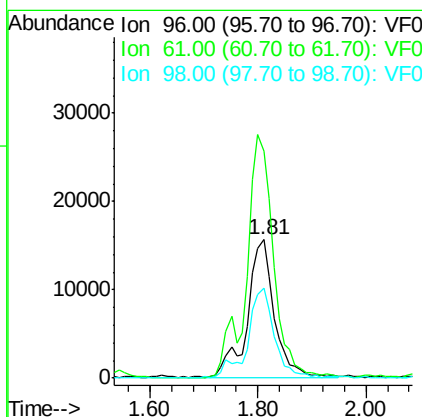
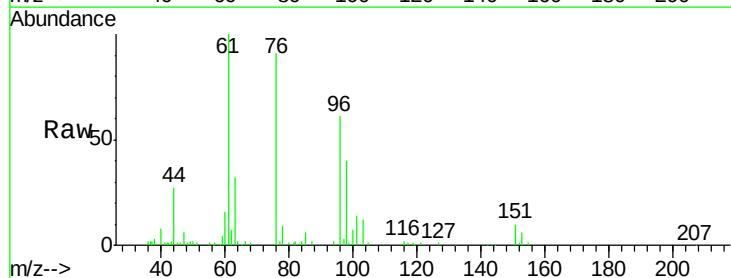
Manual Integrations
APPROVED

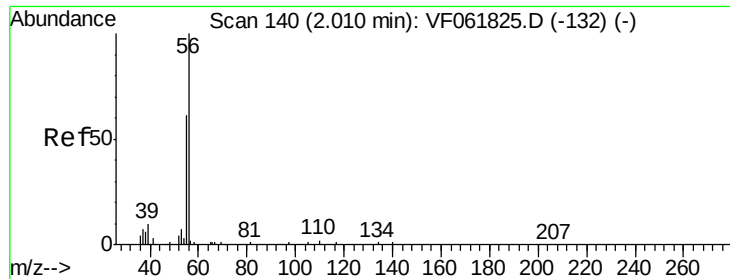
MMDadoda
3/5/2019 10:48:16 AM



#12
1,1-Dichloroethene
Concen: 20.642 ug/l
RT: 1.81 min Scan# 120
Delta R.T. 0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	96	Resp	54995
Ion Ratio	100	Lower	Upper
61	164.3	122.6	184.0
98	66.3	47.2	70.8





#13

Acrolein

Concen: 92.969 ug/l m

RT: 2.01 min Scan# 140

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBSD01

Tot Ion: 56 Resp: 15418

Ion Ratio Lower Upper

56 100

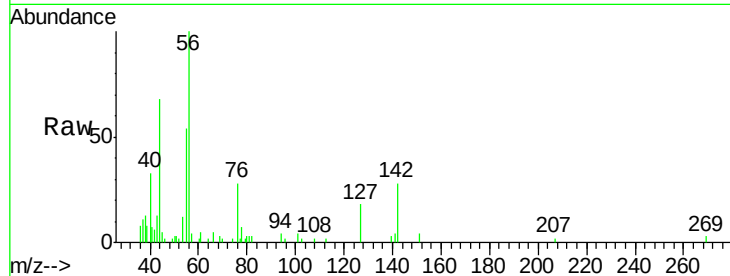
55 54.4 55.0 82.6#

Manual Integrations

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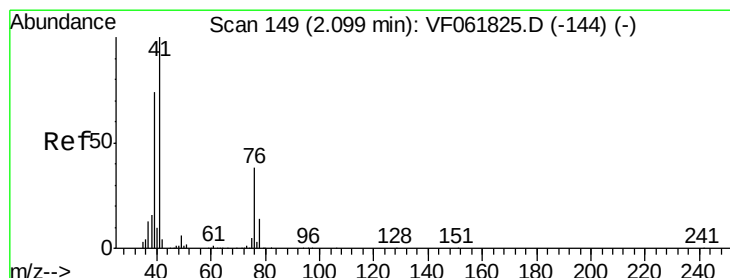
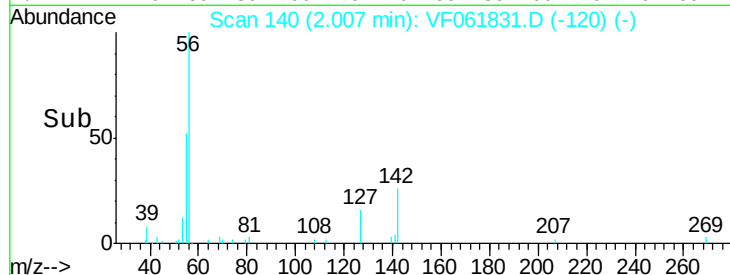
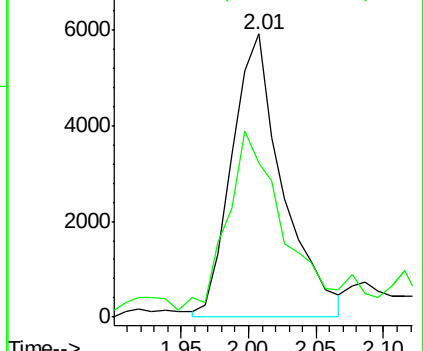
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 17.174 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

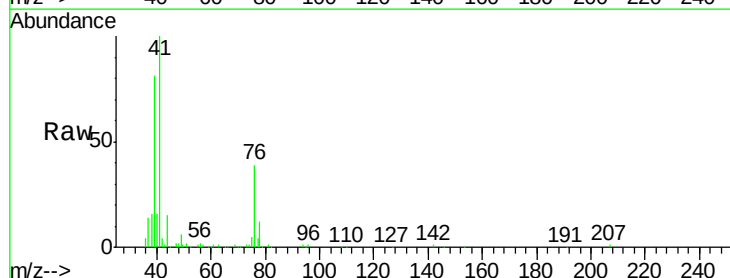
Tgt Ion: 41 Resp: 56149

Ion Ratio Lower Upper

41 100

39 81.3 61.6 92.4

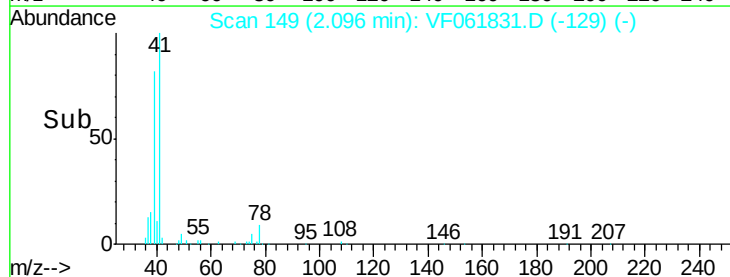
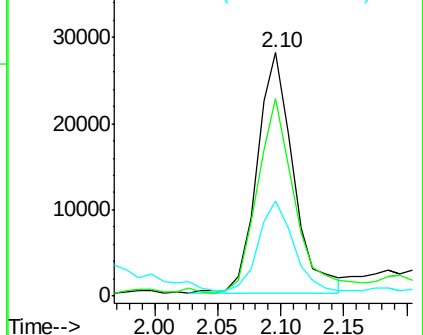
76 38.9 30.3 45.5

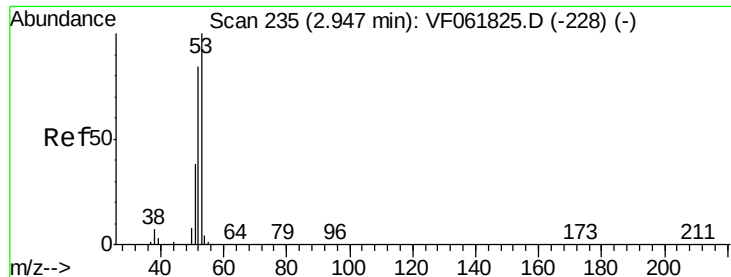


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 89.027 ug/l

RT: 2.94 min Scan# 235

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

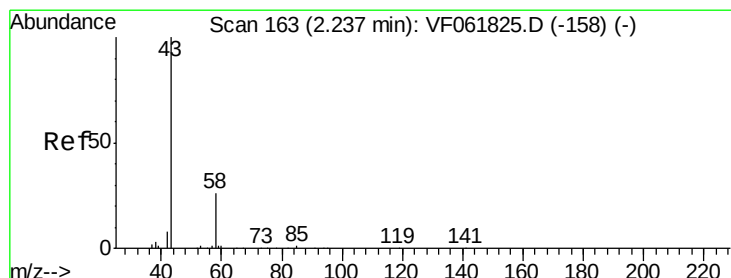
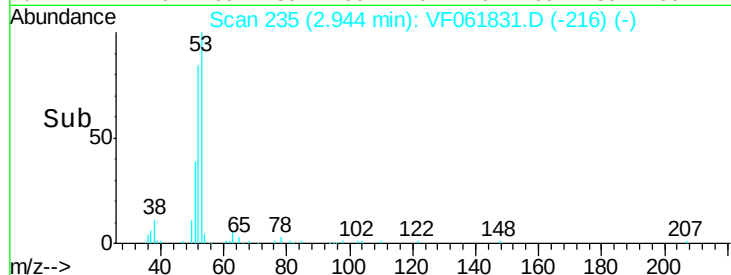
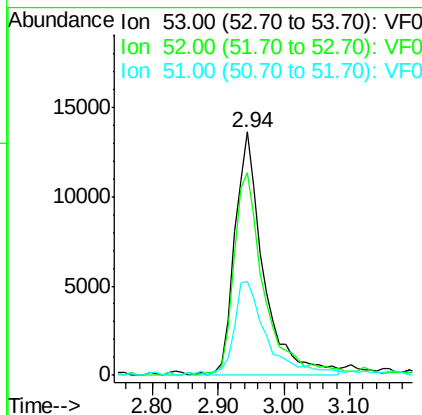
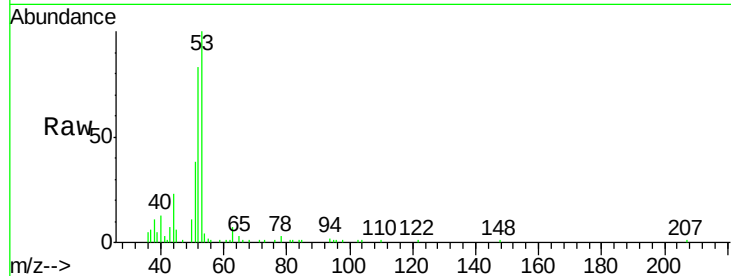
ClientSampleId :

VF0304SBS01

Tot Ion:	53	Resp:	41668
Ion	Ratio	Lower	Upper
53	100		
52	83.2	64.6	97.0
51	38.5	29.8	44.8

Manual Integrations
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3/5/2019 10:48:16 AM



#16

Acetone

Concen: 95.047 ug/l

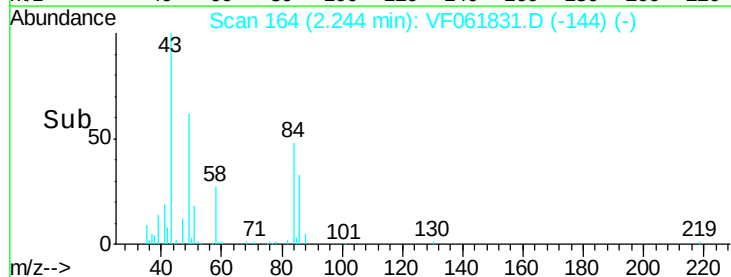
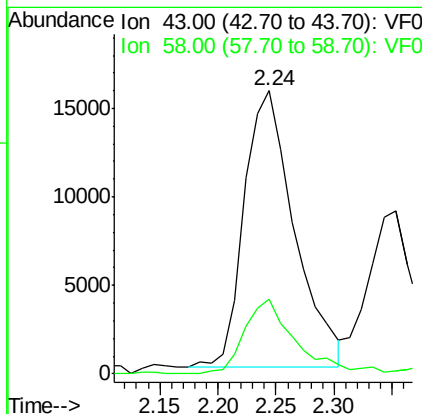
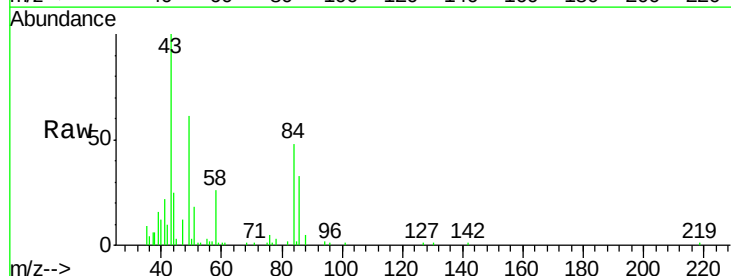
RT: 2.24 min Scan# 164

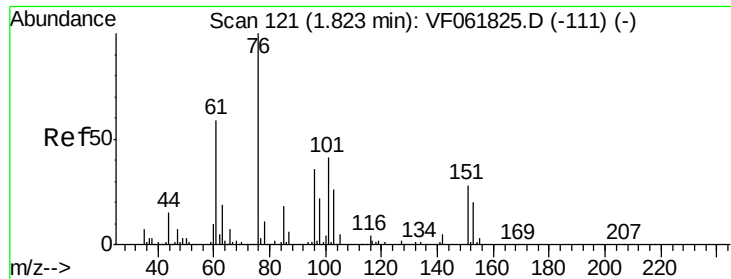
Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion:	43	Resp:	46496
Ion	Ratio	Lower	Upper
43	100		
58	26.2	22.9	34.3





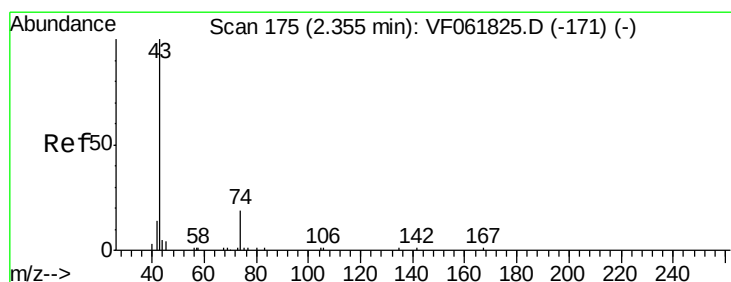
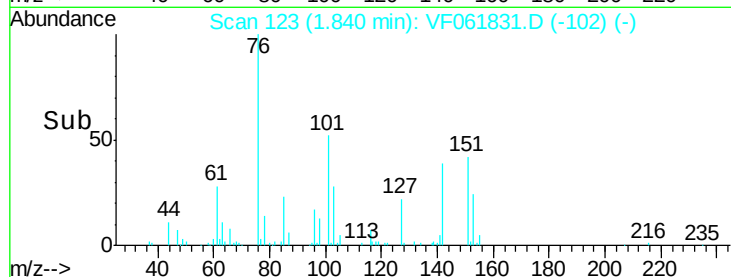
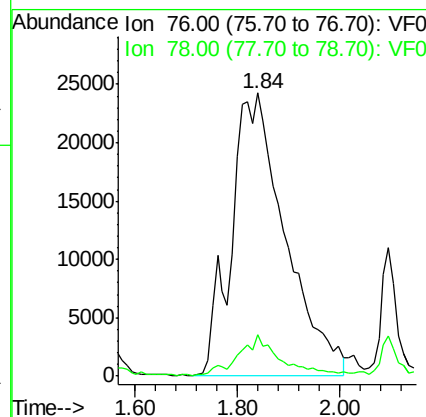
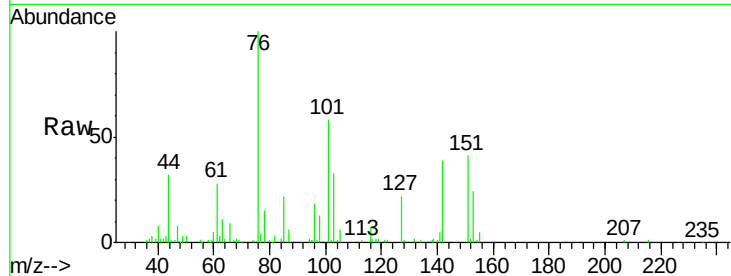
#17
Carbon Disulfide
Concen: 21.247 ug/l m
RT: 1.84 min Scan# 123
Delta R.T. 0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

Tot Ion: 76 Resp: 177933
Ion Ratio Lower Upper
76 100
78 14.7 7.9 11.9#

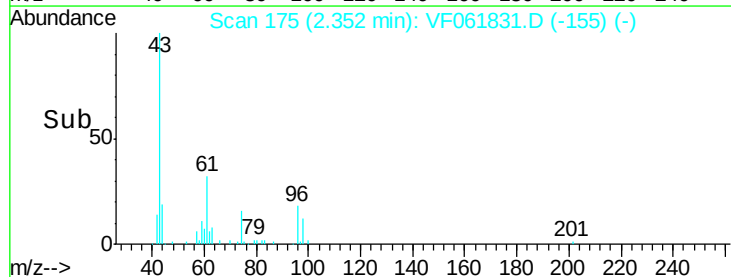
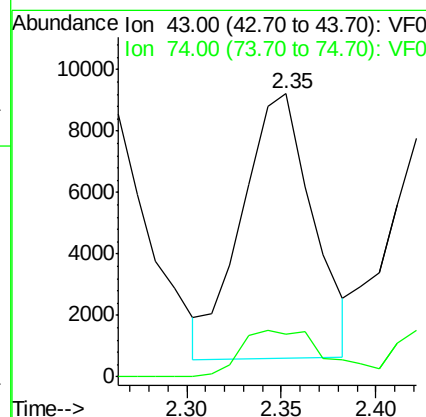
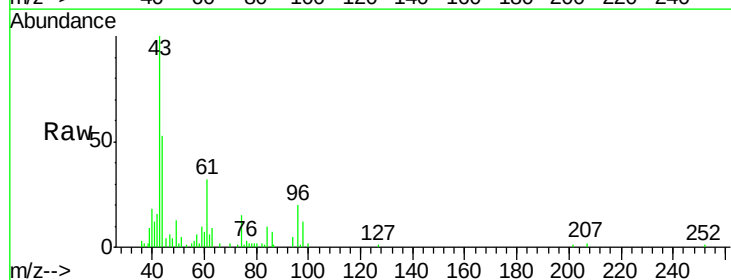
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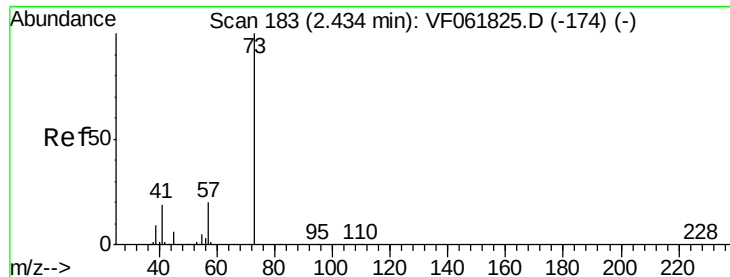
MMDadoda
3/5/2019 10:48:16 AM



#18
Methyl Acetate
Concen: 20.301 ug/l
RT: 2.35 min Scan# 175
Delta R.T. -0.00 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion: 43 Resp: 22372
Ion Ratio Lower Upper
43 100
74 15.0 14.6 21.8





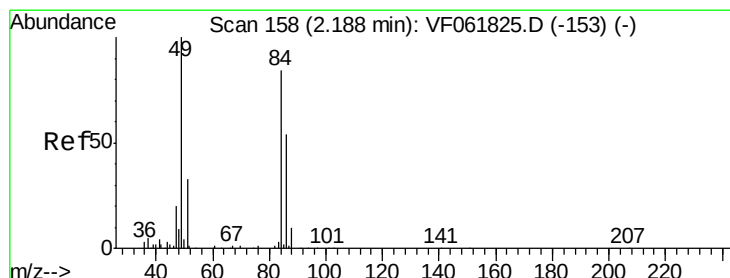
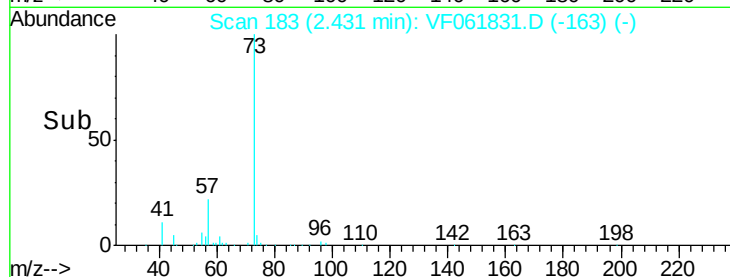
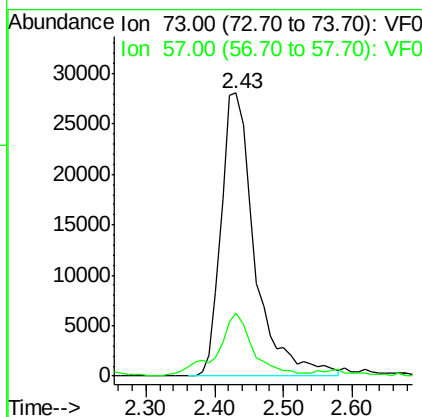
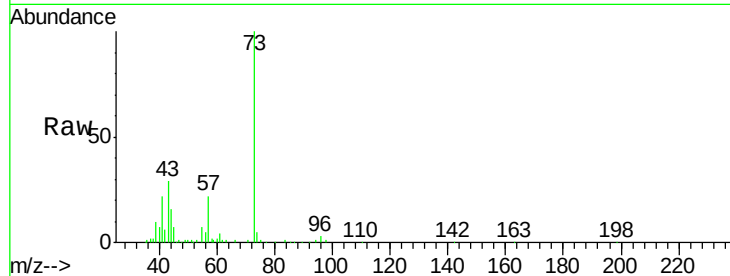
#19
Methyl tert-butyl Ether
Concen: 20.881 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.4	15.8	23.8

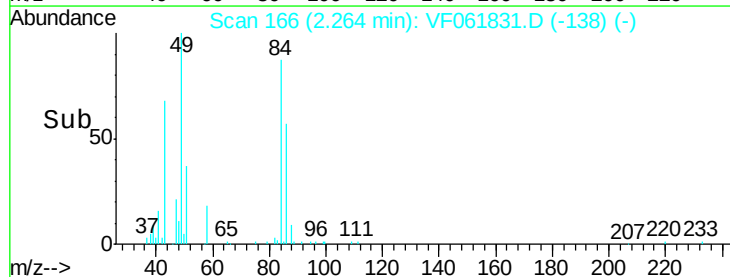
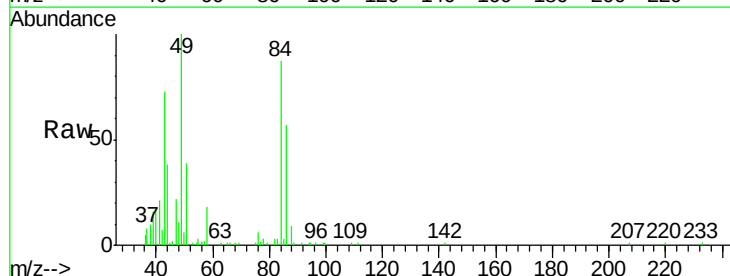
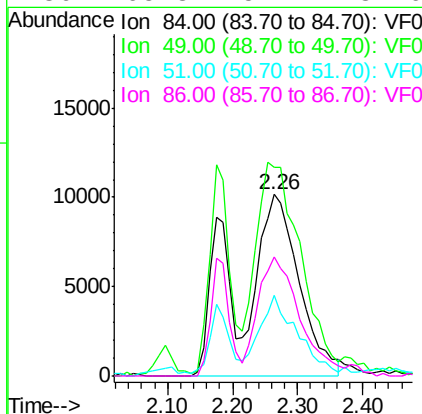
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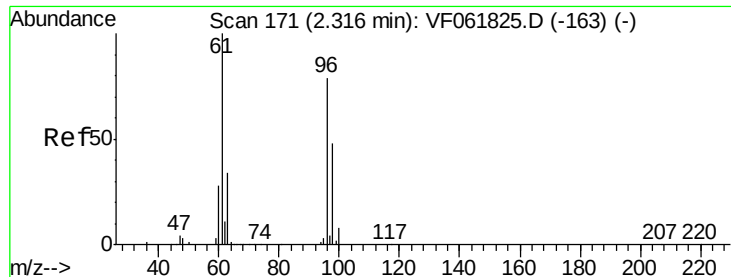
MMDadoda
3/5/2019 10:48:16 AM



#20
Methylene Chloride
Concen: 22.000 ug/l m
RT: 2.26 min Scan# 166
Delta R.T. 0.08 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
84	100		
49	114.7	101.8	152.8
51	44.4	31.1	46.7
86	65.3	54.4	81.6





#21

trans-1,2-Dichloroethene

Concen: 15.949 ug/l

RT: 2.30 min Scan# 170

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

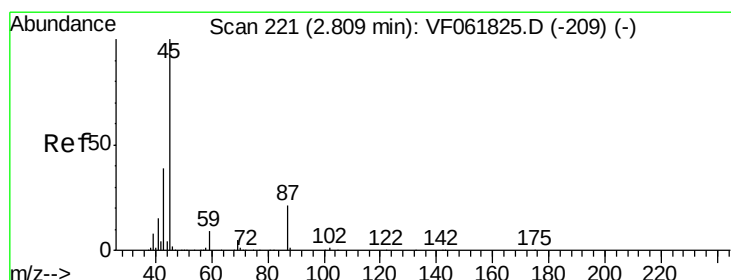
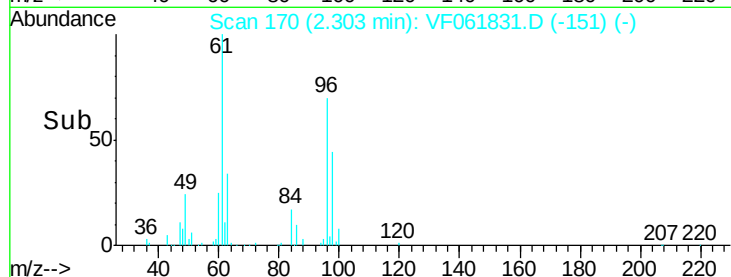
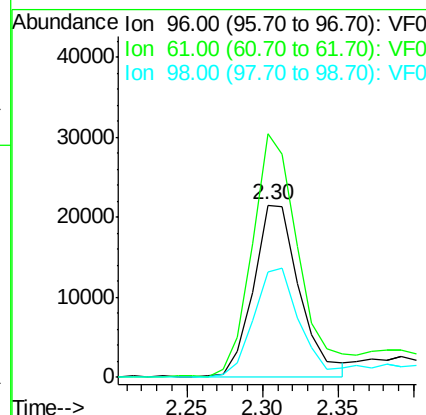
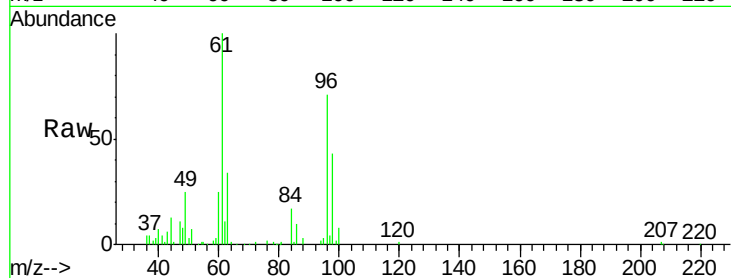
ClientSampleId :

VF0304SBS01

Tot Ion:	96	Resp:	46191
Ion	Ratio	Lower	Upper
96	100		
61	141.6	108.2	162.4
98	61.4	52.2	78.2

Manual Integrations
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3/5/2019 10:48:16 AM



#22

Diisopropyl ether

Concen: 21.831 ug/l

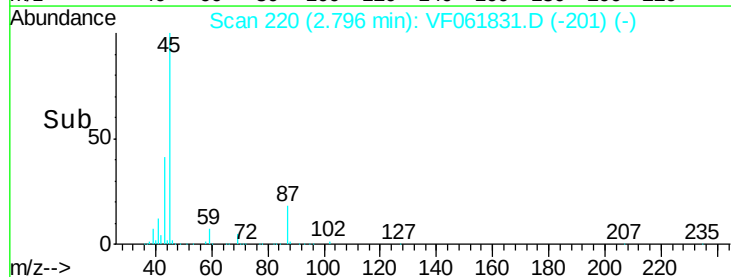
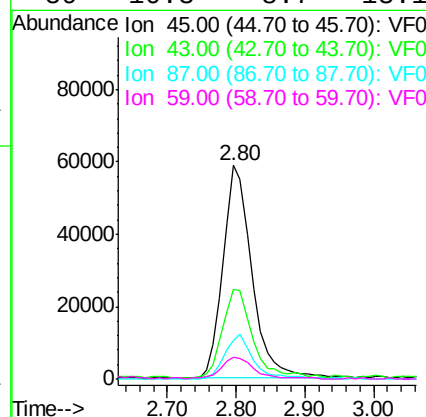
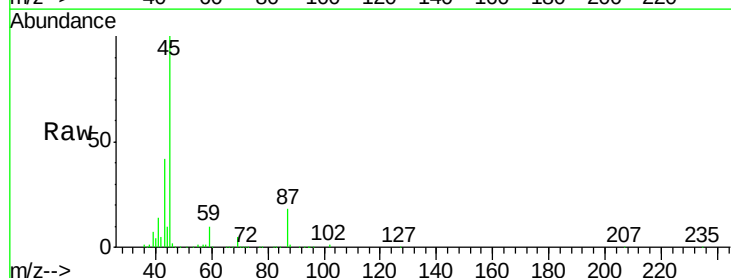
RT: 2.80 min Scan# 220

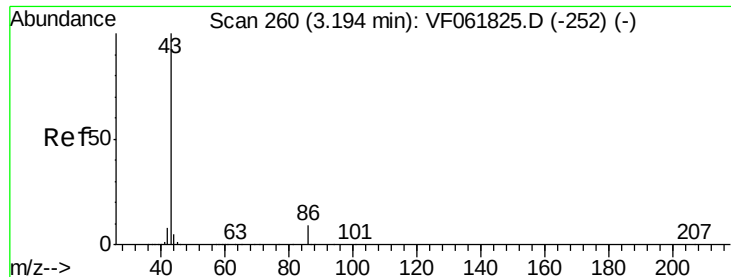
Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion:	45	Resp:	171329
Ion	Ratio	Lower	Upper
45	100		
43	41.7	31.4	47.2
87	18.1	16.3	24.5
59	10.3	8.7	13.1





#23

Vinyl Acetate

Concen: 100.514 ug/l

RT: 3.19 min Scan# 260

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 43 Resp: 385281

Ion Ratio Lower Upper

43 100

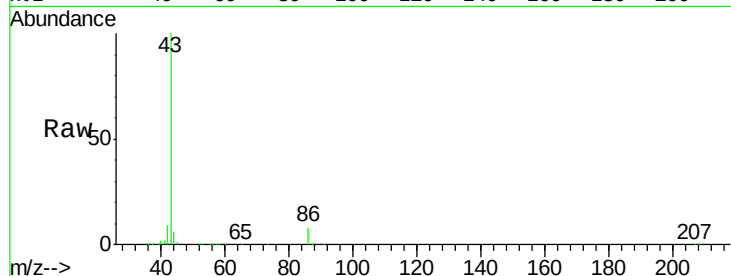
86 7.5 7.5 11.3

Manual Integrations

APPROVED

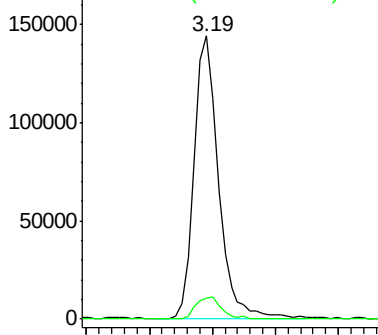
MMDadoda

3/5/2019 10:48:16 AM

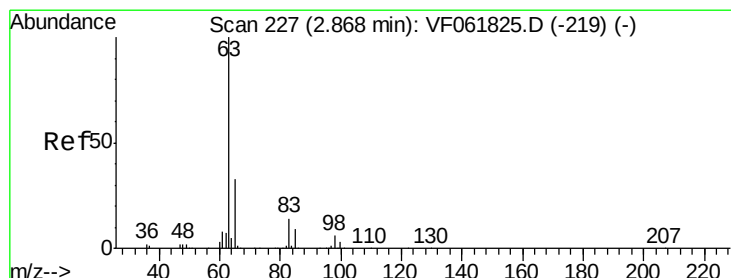
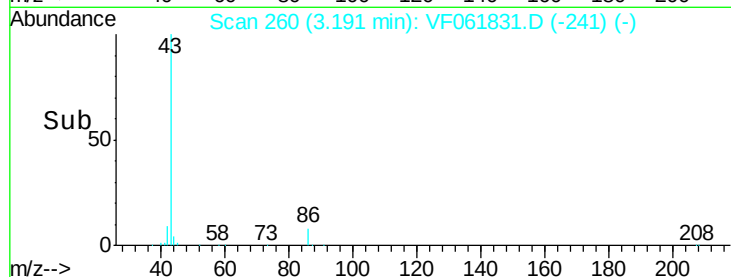


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



Time-->



#24

1,1-Dichloroethane

Concen: 20.225 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

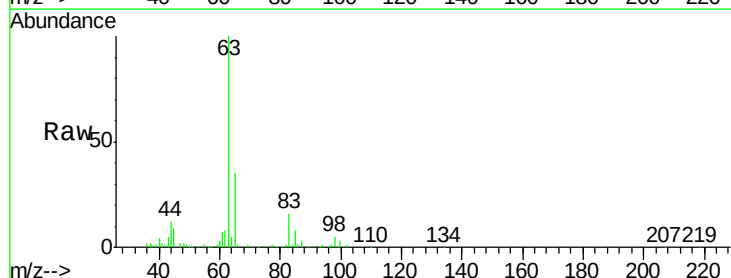
Tgt Ion: 63 Resp: 96055

Ion Ratio Lower Upper

63 100

98 4.8 2.8 8.3

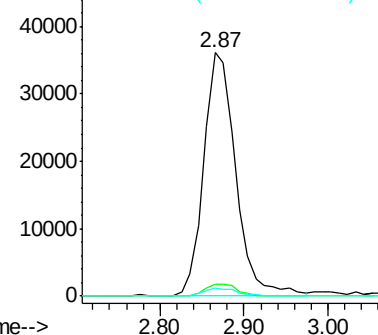
100 3.4 1.8 5.4



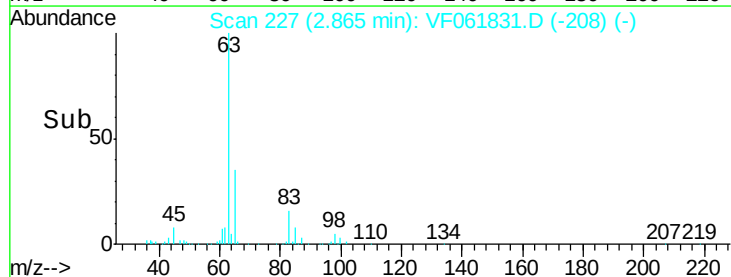
Abundance Ion 63.00 (62.70 to 63.70): VF0

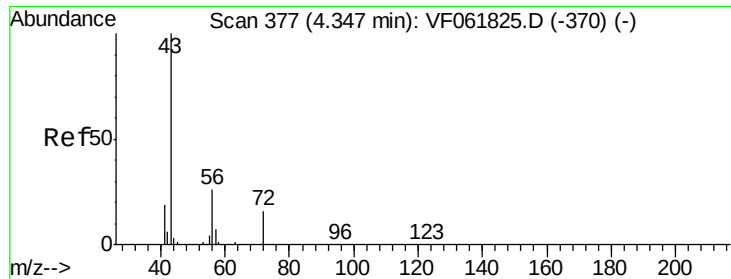
Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#25

2-Butanone

Concen: 91.700 ug/l

RT: 4.34 min Scan# 377

Delta R.T. 0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 43 Resp: 97985

Ion Ratio Lower Upper

43 100

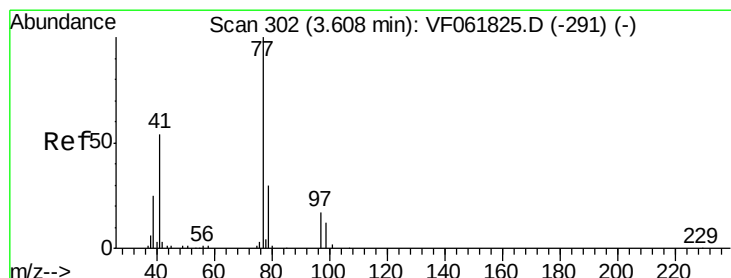
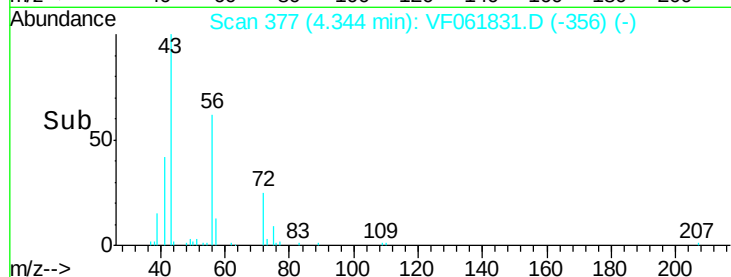
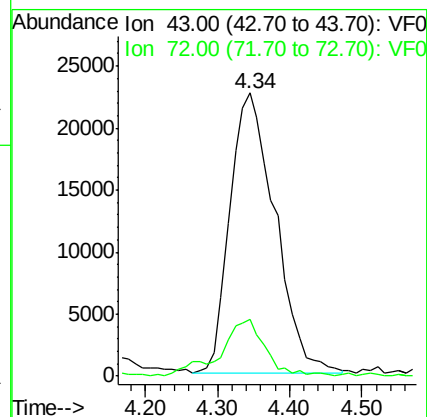
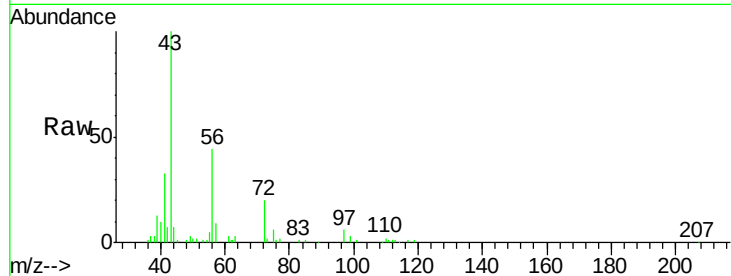
72 20.2 17.1 25.7

Manual Integrations

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3/5/2019 10:48:16 AM



#26

2,2-Dichloropropane

Concen: 19.459 ug/l

RT: 3.59 min Scan# 301

Delta R.T. -0.02 min

Lab File: VF061831.D

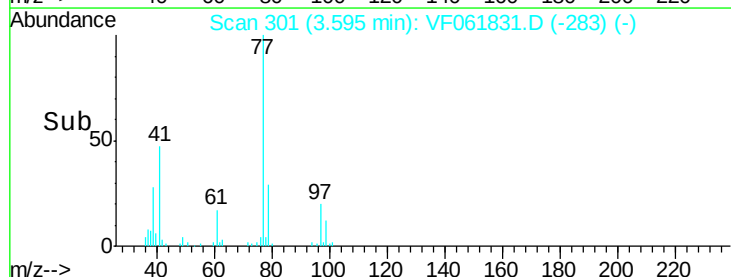
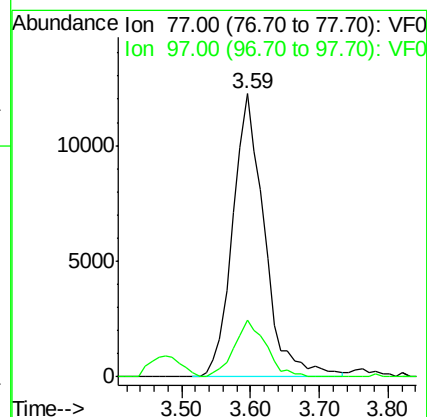
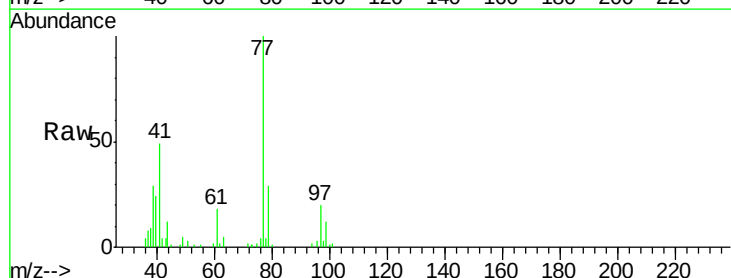
Acq: 4 Mar 2019 21:19

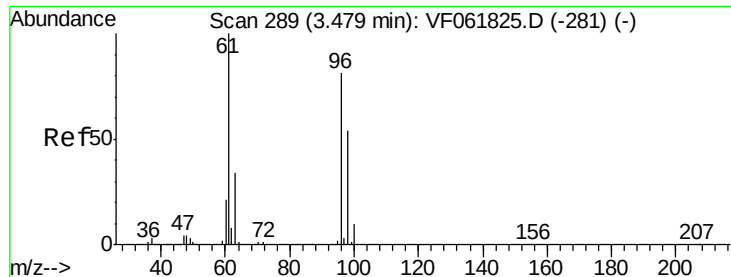
Tgt Ion: 77 Resp: 39146

Ion Ratio Lower Upper

77 100

97 20.2 11.7 35.0





#27

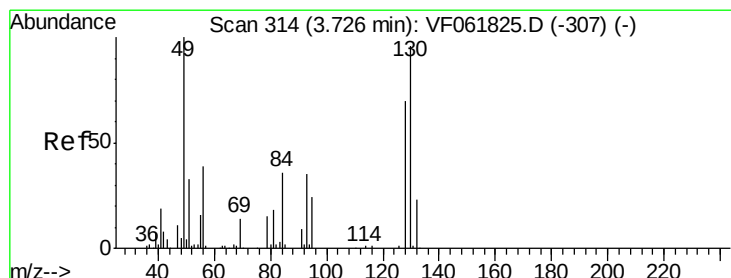
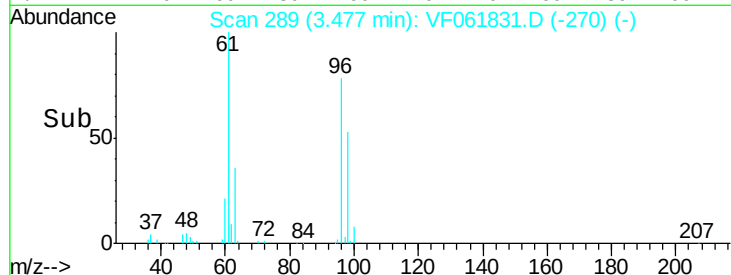
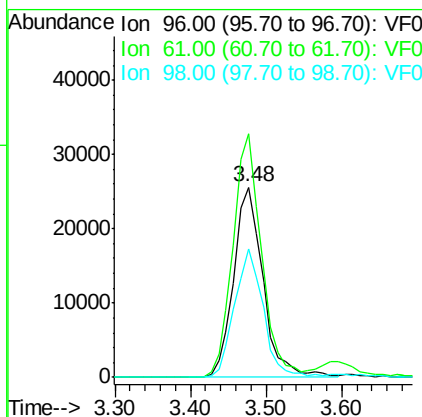
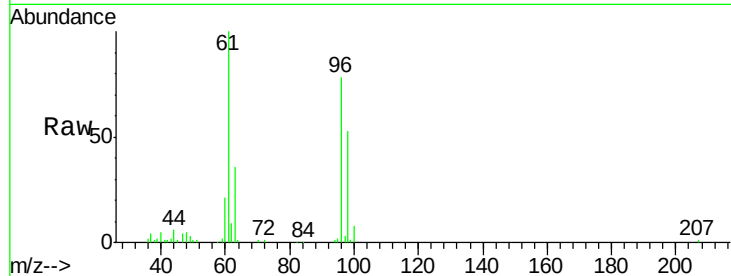
cis-1,2-Dichloroethene
Concen: 18.137 ug/l
RT: 3.48 min Scan# 289
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	68950		
61	127.8		0.0	241.6
98	67.4		0.0	130.2

Manual Integrations
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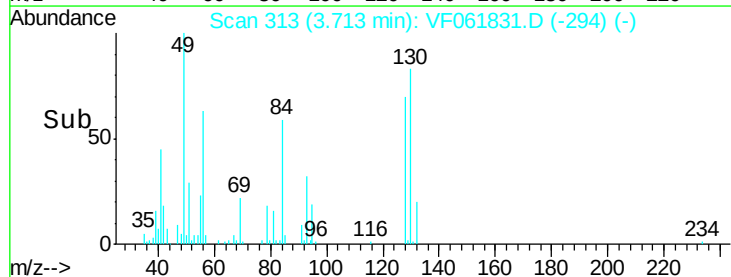
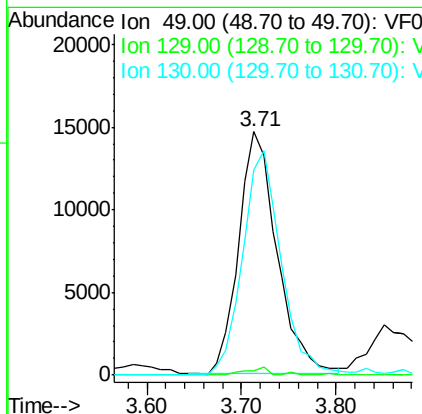
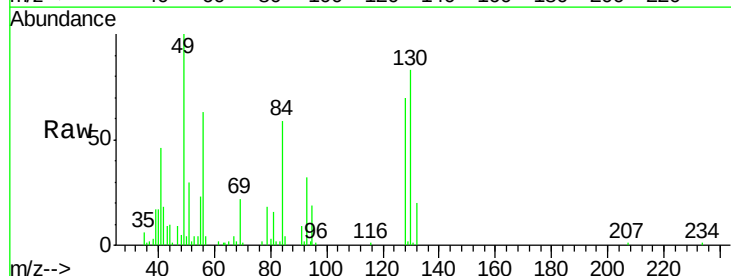
MMDadoda
3/5/2019 10:48:16 AM

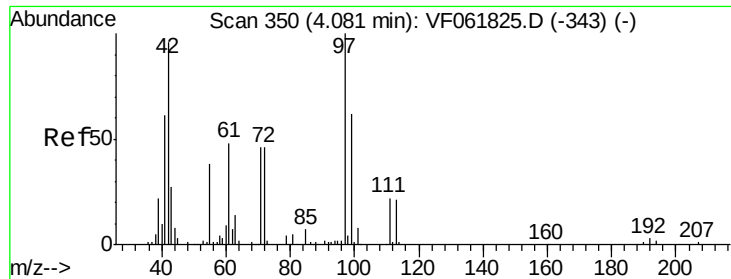


#28

Bromochloromethane
Concen: 18.008 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	41035		
129	1.8		0.0	3.4
130	84.3		77.7	116.5





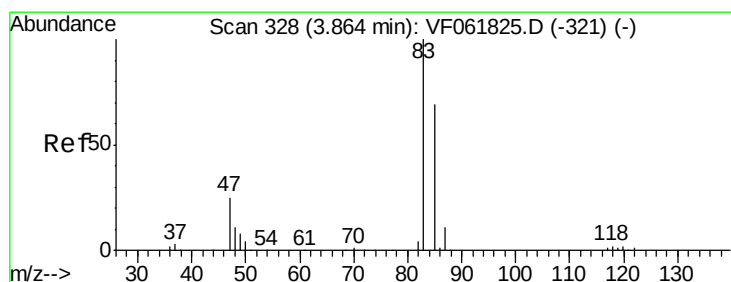
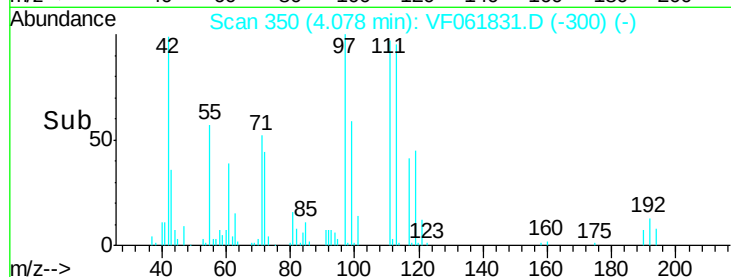
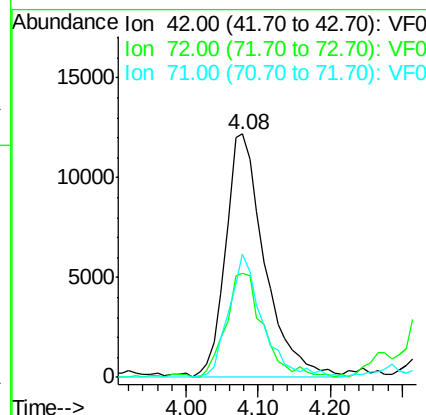
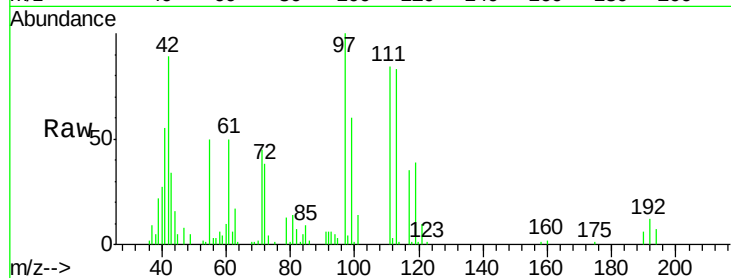
#29
Tetrahydrofuran
Concen: 94.519 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.8	35.2	52.8
71	43.8	32.9	49.3

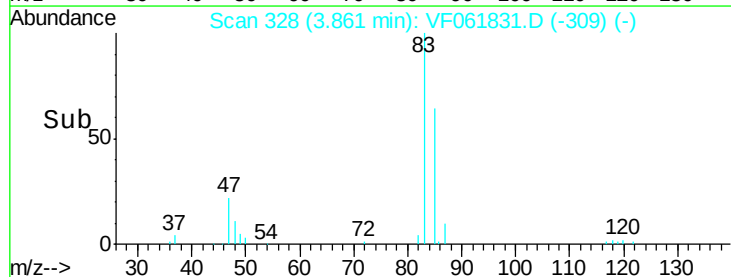
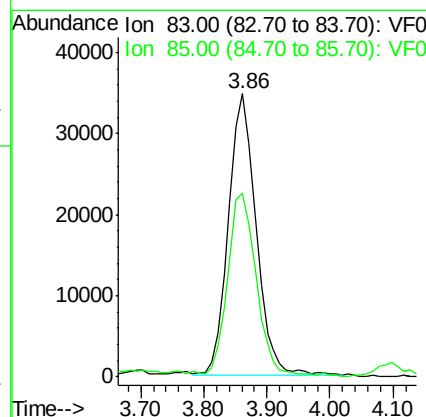
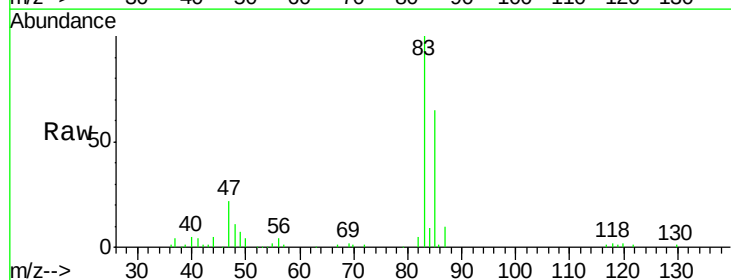
Manual Integrations
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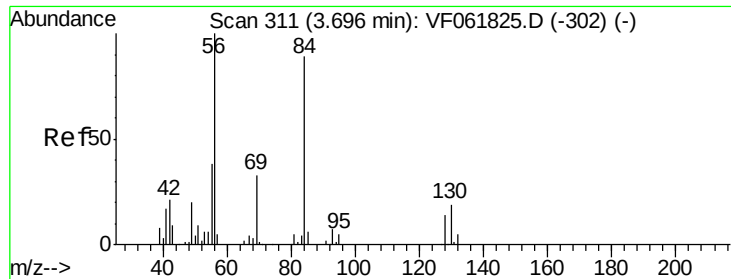
MMDadoda
3/5/2019 10:48:16 AM



#30
Chloroform
Concen: 19.546 ug/l
RT: 3.86 min Scan# 328
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.1	76.7





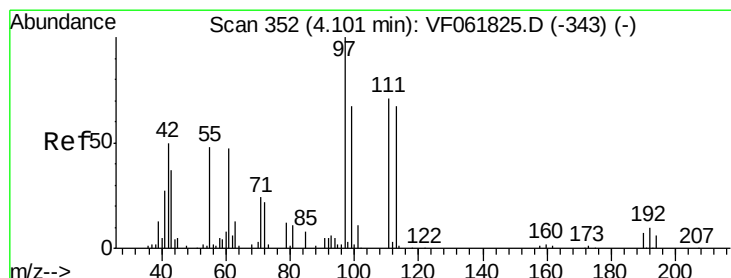
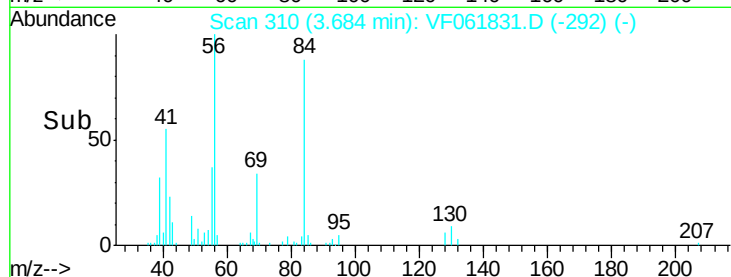
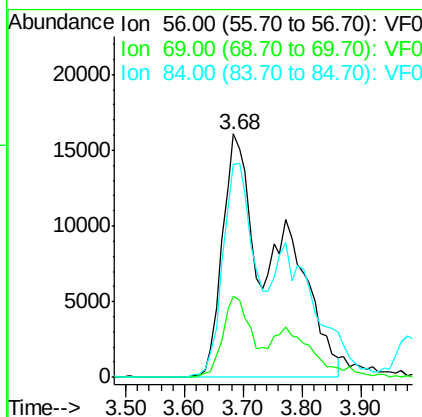
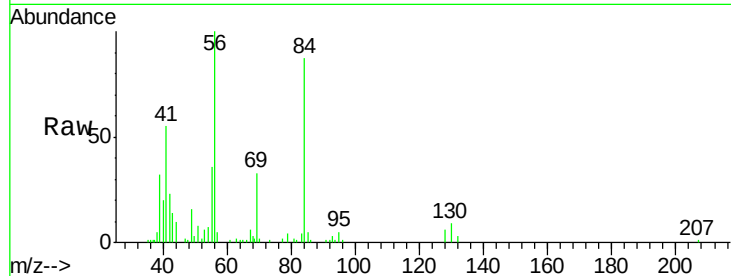
#31
Cyclohexane
Concen: 19.873 ug/l m
RT: 3.68 min Scan# 310
Delta R.T. -0.02 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	33.4	23.8	35.8
84	87.2	68.6	103.0

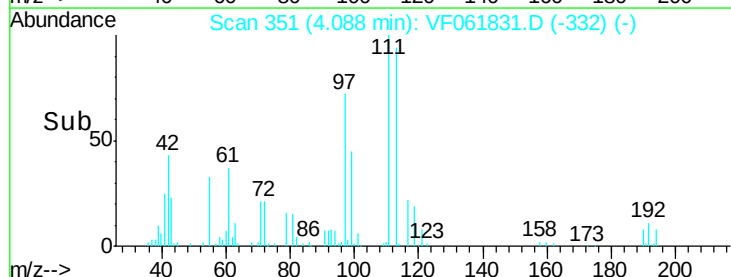
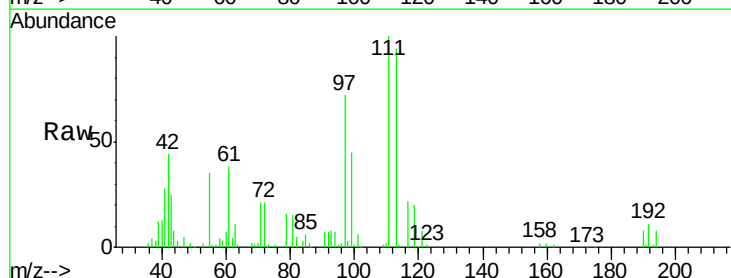
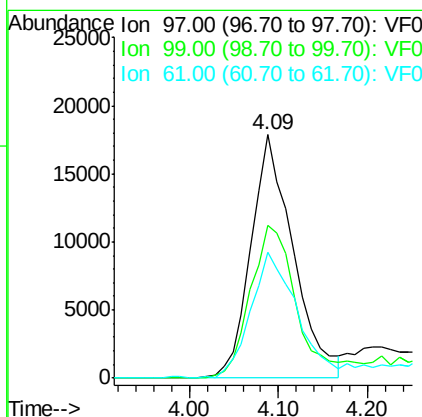
Manual Integrations
APPROVED

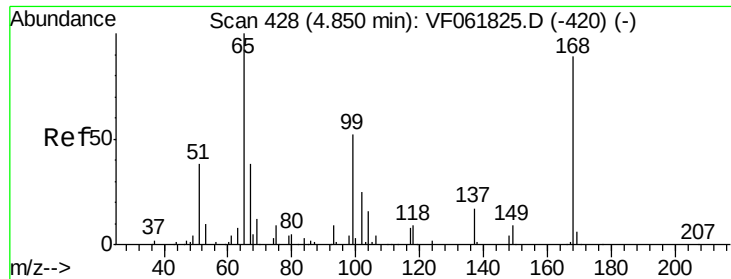
MMDadoda
3/5/2019 10:48:16 AM



#32
1,1,1-Trichloroethane
Concen: 16.634 ug/l
RT: 4.09 min Scan# 351
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.8	52.2	78.2
61	51.9	39.2	58.8





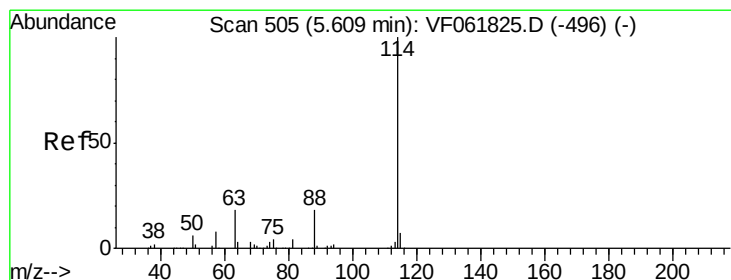
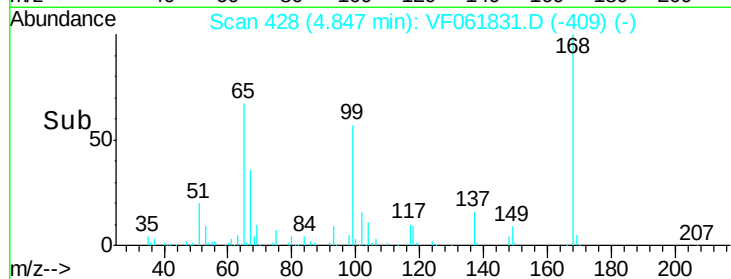
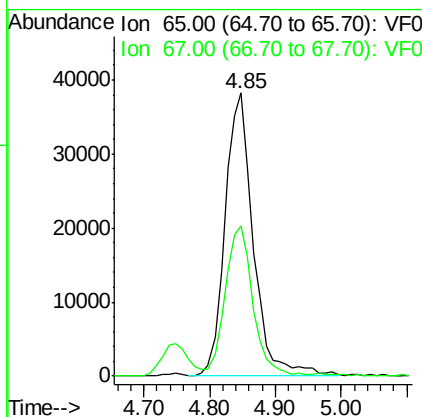
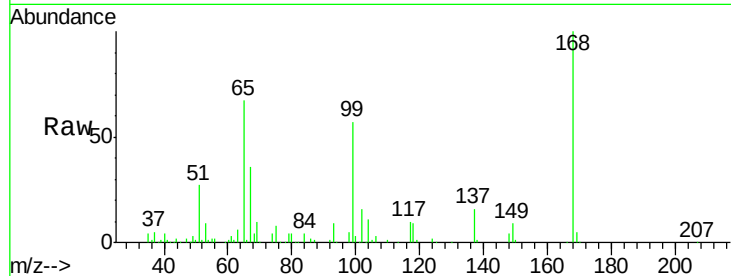
#33
 1,2-Dichloroethane-d4
 Concen: 49.772 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	113480		
67	53.1	0.0	104.0	

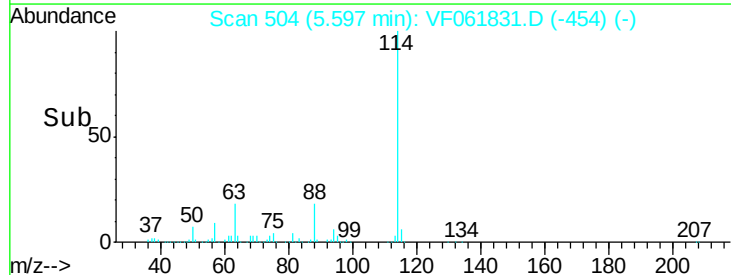
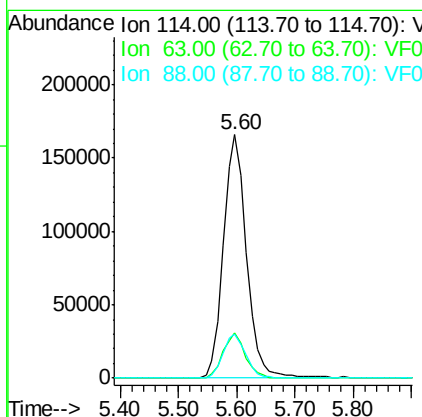
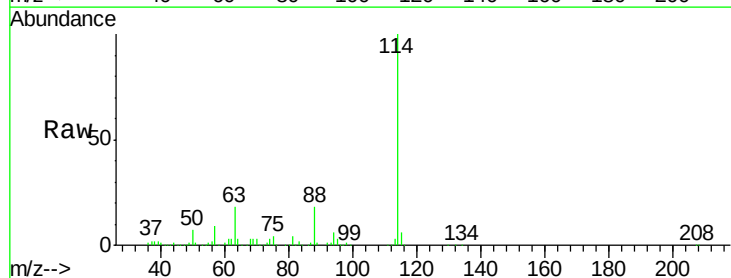
Manual Integrations
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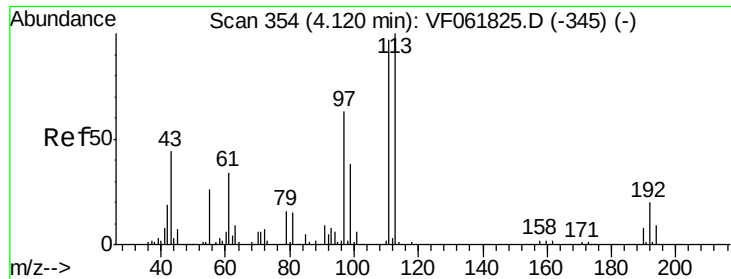
MMDadoda
 3/5/2019 10:48:16 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	455386		
63	18.3	0.0	36.6	
88	17.8	0.0	34.4	





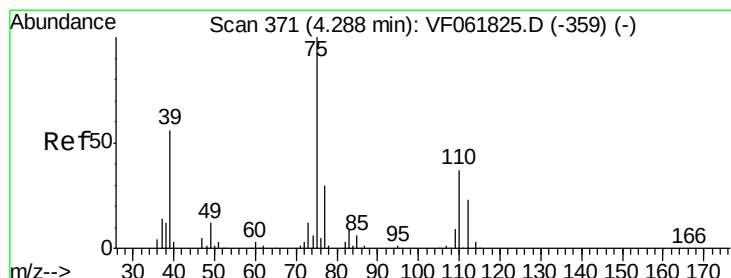
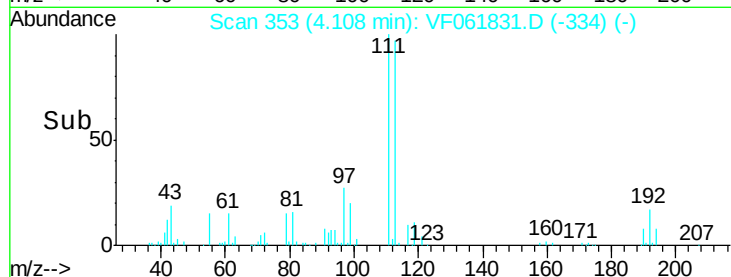
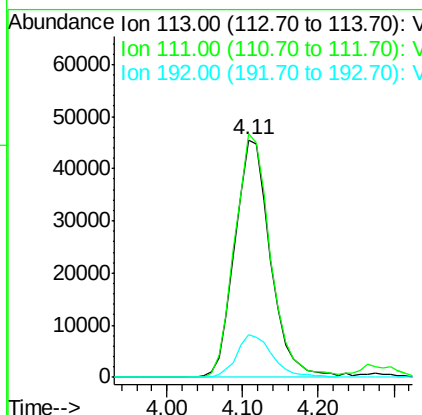
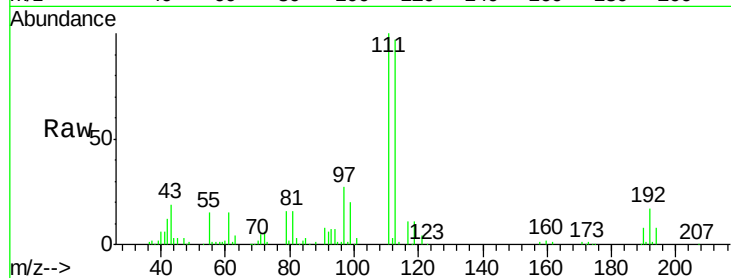
#35
Dibromofluoromethane
Concen: 43.818 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	148182		
111	102.6	78.8	118.2	
192	18.4	13.4	20.0	

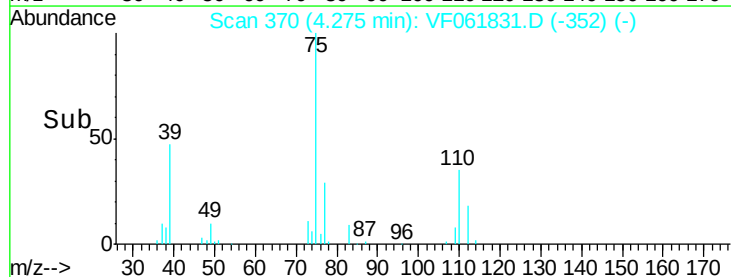
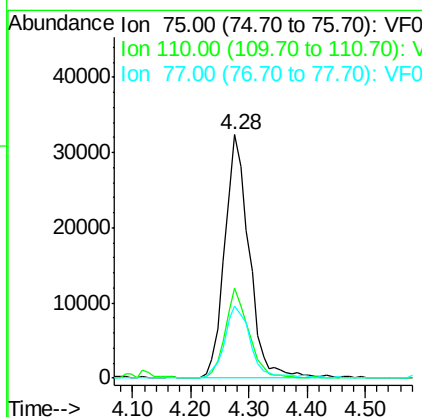
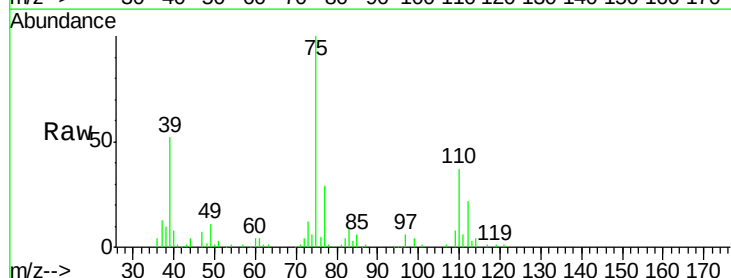
Manual Integrations
APPROVED

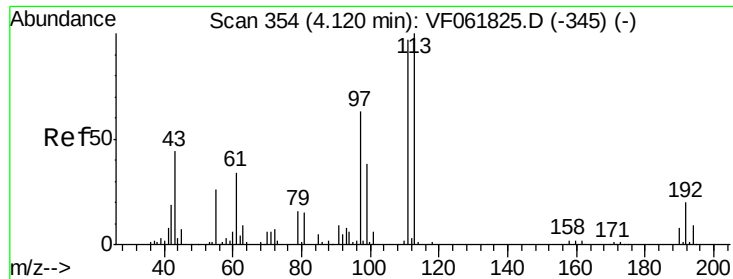
MMDadoda
3/5/2019 10:48:16 AM



#36
1,1-Dichloropropene
Concen: 21.046 ug/l
RT: 4.28 min Scan# 370
Delta R.T. -0.02 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	94943		
110	37.1	20.5	61.6	
77	29.5	27.0	40.4	





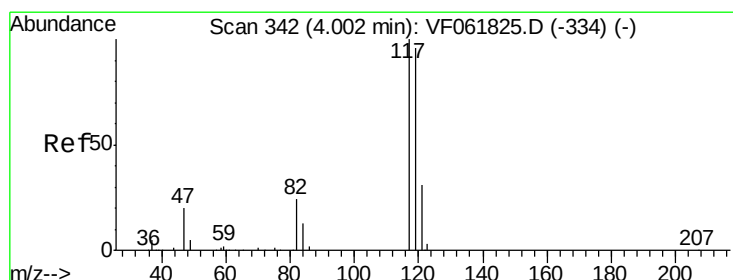
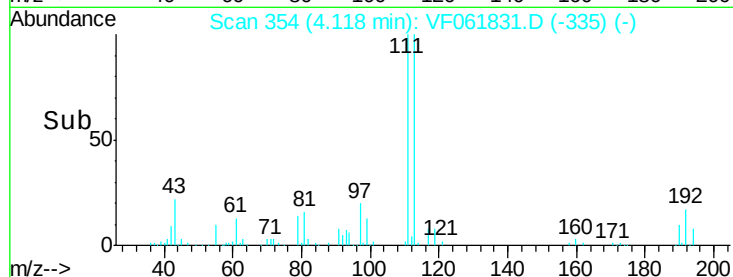
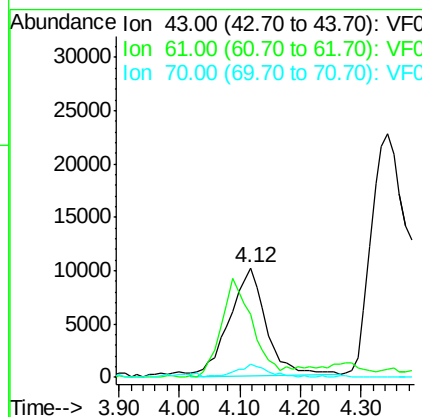
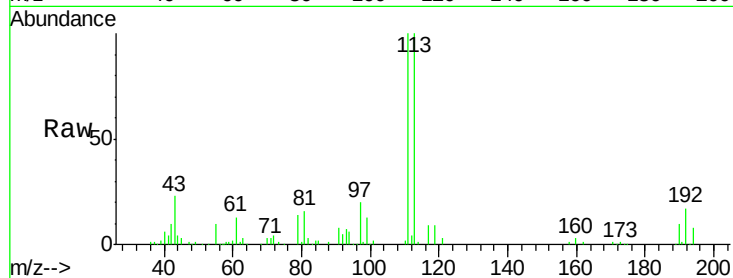
#37
Ethyl Acetate
Concen: 20.372 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	43	Resp	42685
Ion	Ratio	Lower	Upper
43	100		
61	57.2	45.7	68.5
70	11.6	8.5	12.7

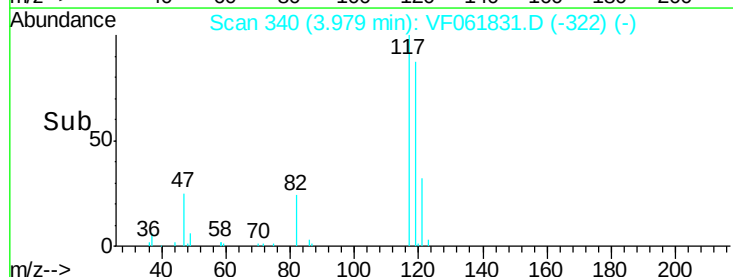
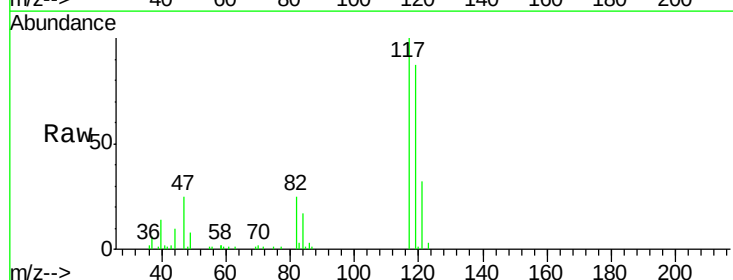
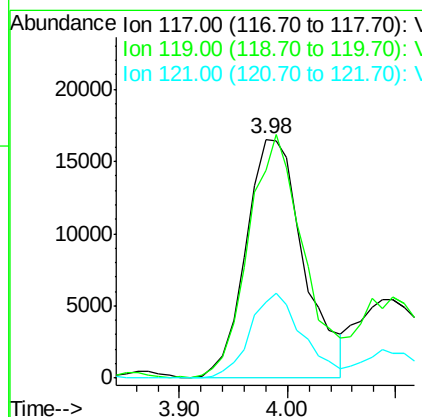
Manual Integrations
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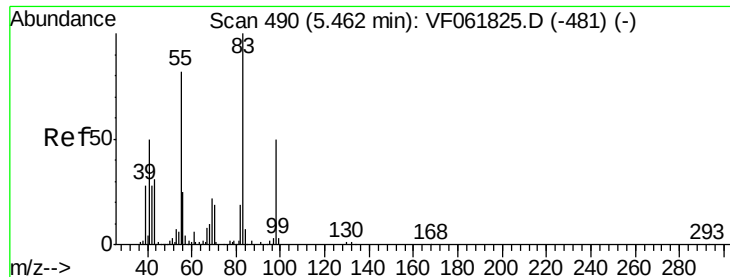
MMDadoda
3/5/2019 10:48:16 AM



#38
Carbon Tetrachloride
Concen: 19.807 ug/l
RT: 3.98 min Scan# 340
Delta R.T. -0.02 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	117	Resp	61699
Ion	Ratio	Lower	Upper
117	100		
119	87.1	75.6	113.4
121	32.0	25.2	37.8





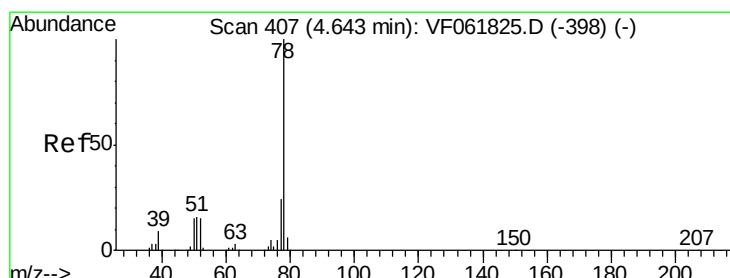
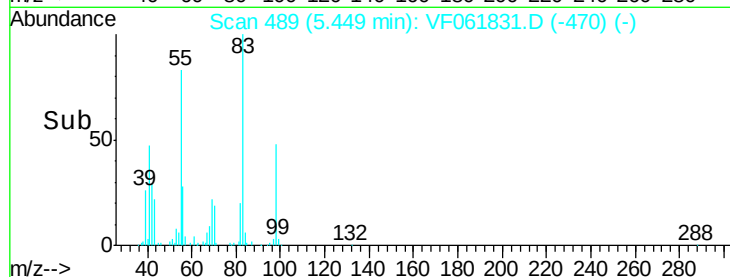
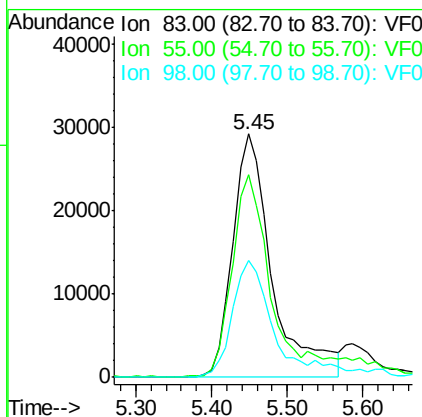
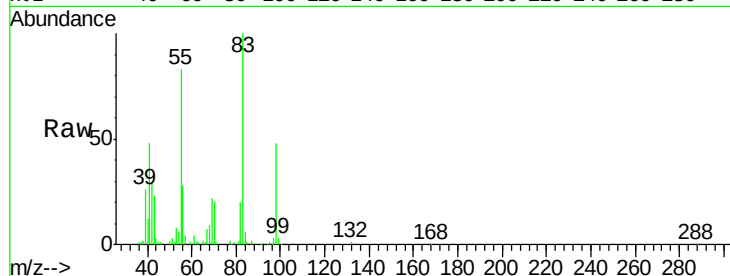
#39
Methylvlcyclohexane
Concen: 19.878 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	83.1	66.6	99.8	
98	48.3	40.4	60.6	

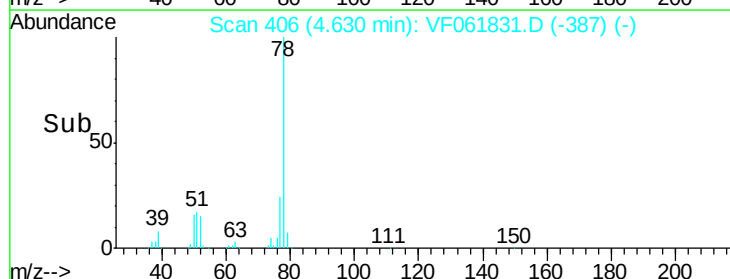
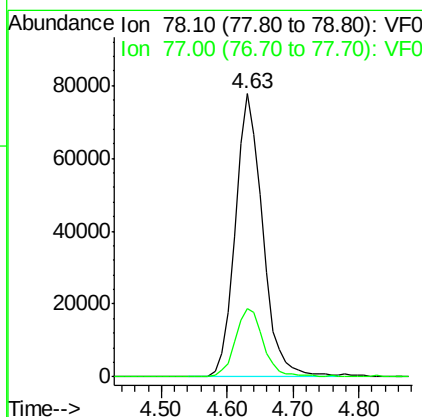
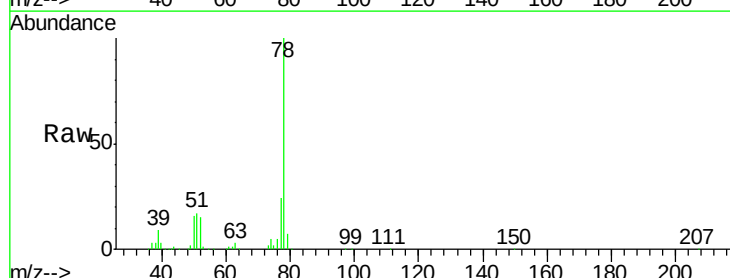
Manual Integrations
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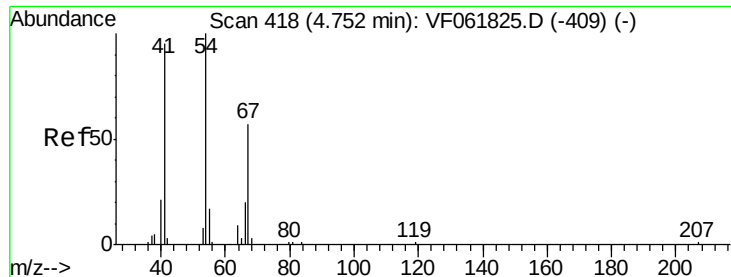
MMDadoda
3/5/2019 10:48:16 AM



#40
Benzene
Concen: 19.274 ug/l
RT: 4.63 min Scan# 406
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.0	19.0	28.6	





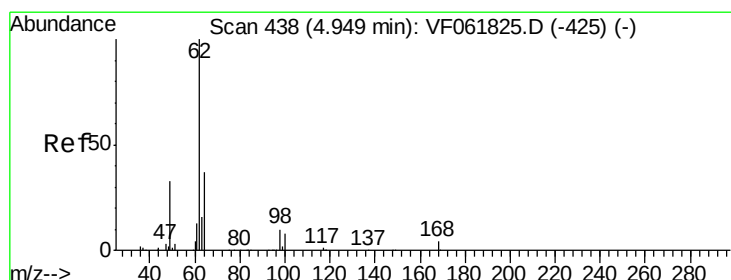
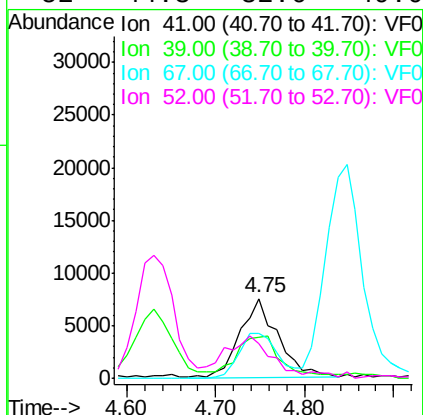
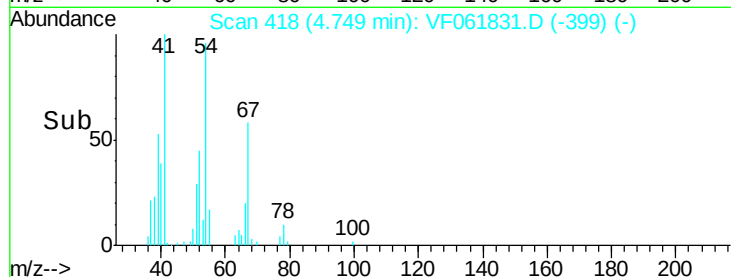
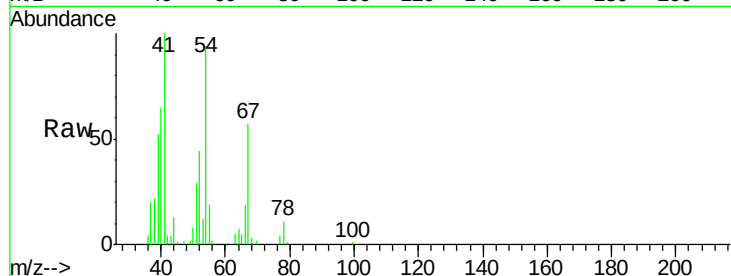
#41
Methacrylonitrile
Concen: 20.878 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

Tot Ion	41	Resp	22372
Ion	Ratio	Lower	Upper
41	100		
39	52.2	45.3	67.9
67	57.1	49.3	73.9
52	44.3	32.6	49.0

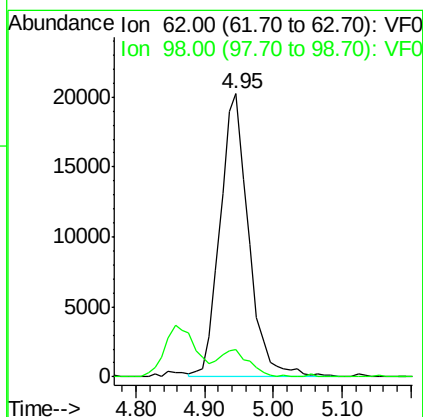
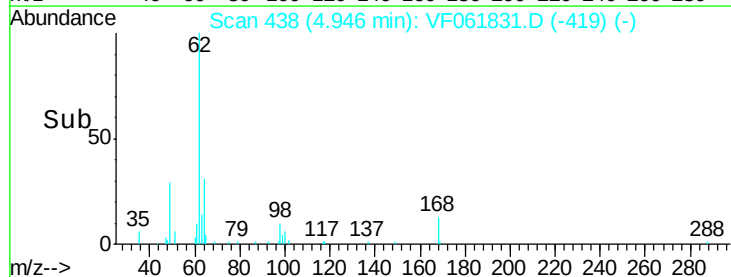
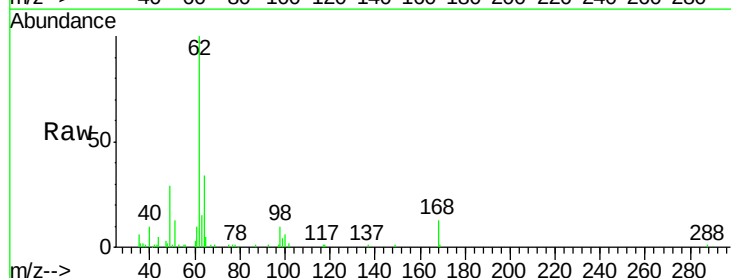
Manual Integrations
APPROVED

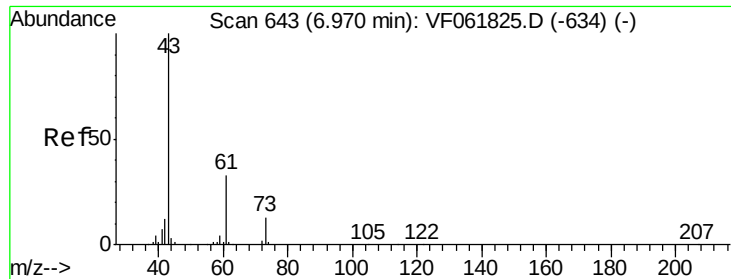
MMDadoda
3/5/2019 10:48:16 AM



#42
1,2-Dichloroethane
Concen: 20.588 ug/l
RT: 4.95 min Scan# 438
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	62	Resp	58111
Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	26.0





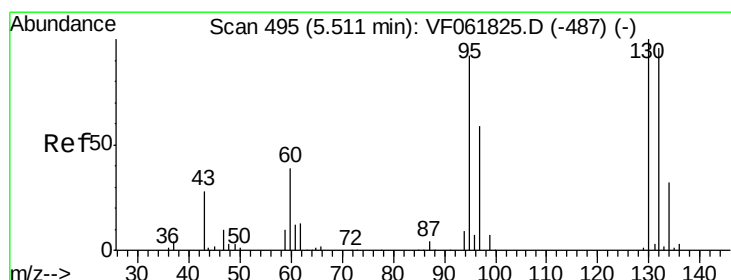
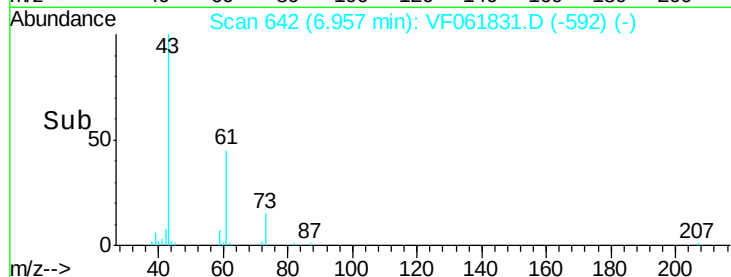
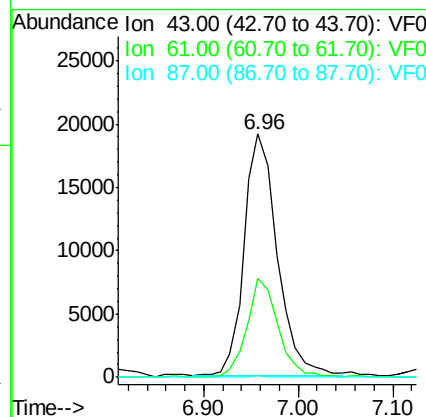
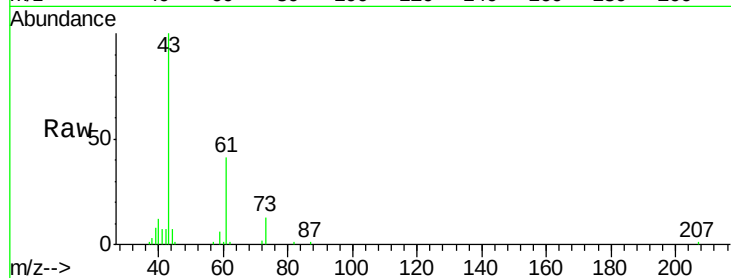
#43
Isopropyl Acetate
Concen: 18.557 ug/l
RT: 6.96 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	40.7	25.8	38.6#
87	0.6	0.4	0.6#

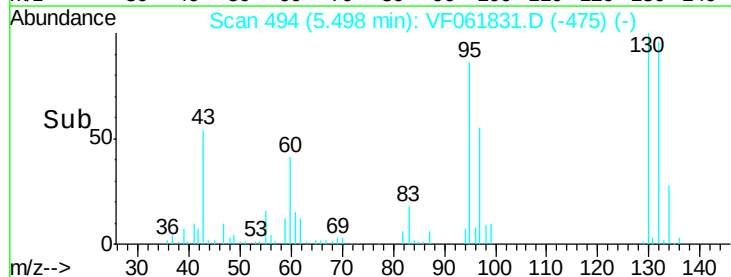
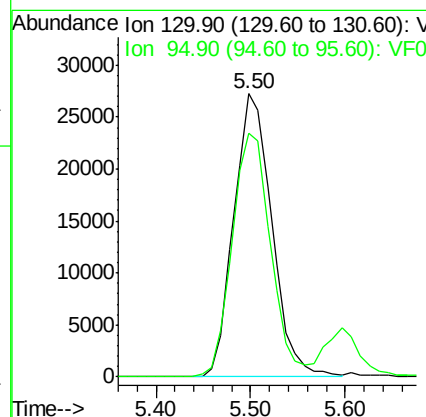
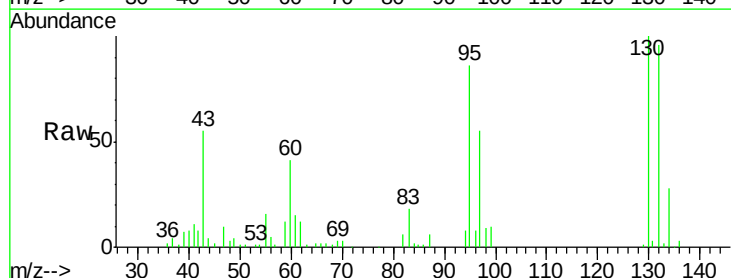
Manual Integrations
APPROVED

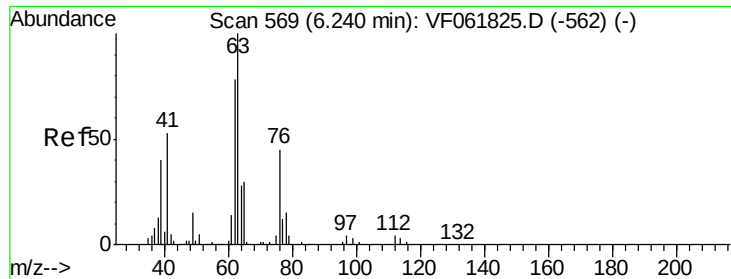
MMDadoda
3/5/2019 10:48:16 AM



#44
Trichloroethene
Concen: 19.877 ug/l
RT: 5.50 min Scan# 494
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
130	100		
95	86.1	0.0	179.4





#45

1,2-Dichloropropane

Concen: 19.499 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 63 Resp: 55615

Ion Ratio Lower Upper

63 100

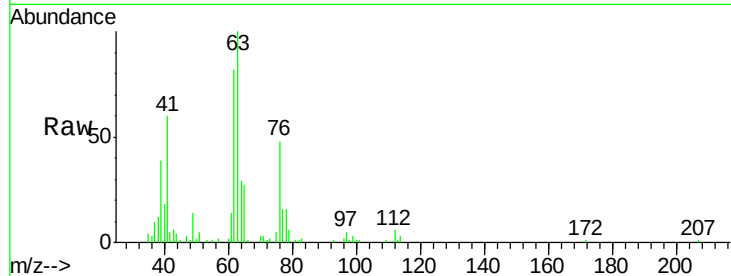
65 27.4 24.9 37.3

Manual Integrations

APPROVED

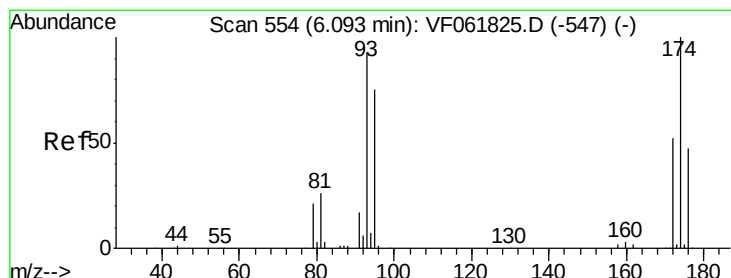
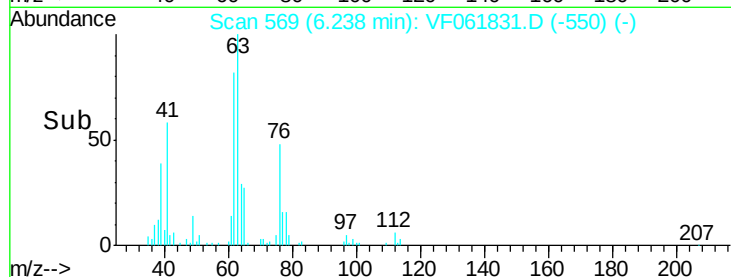
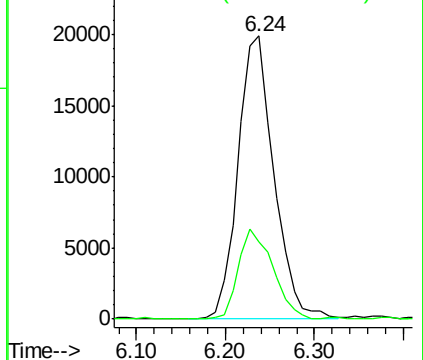
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 20.101 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.02 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

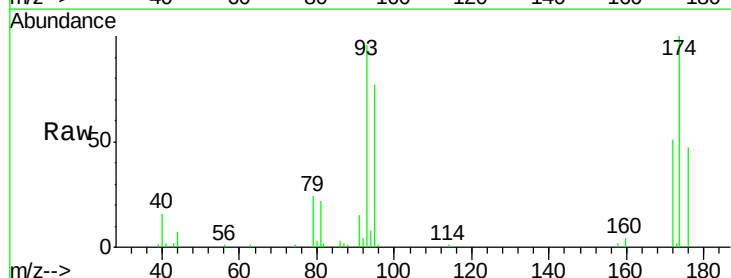
Tgt Ion: 93 Resp: 35299

Ion Ratio Lower Upper

93 100

95 80.5 69.0 103.6

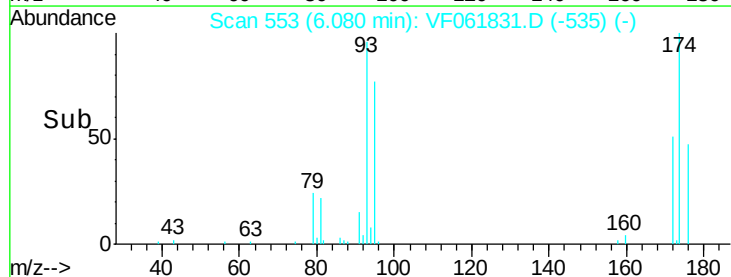
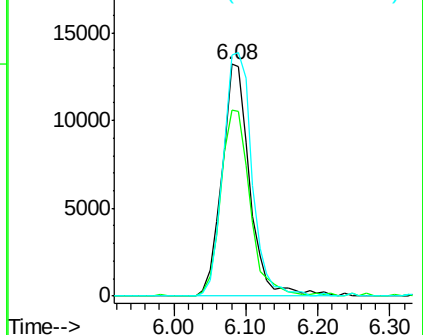
174 104.0 99.3 148.9

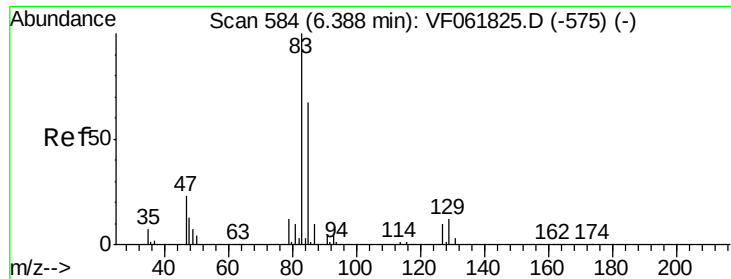


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 20.110 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

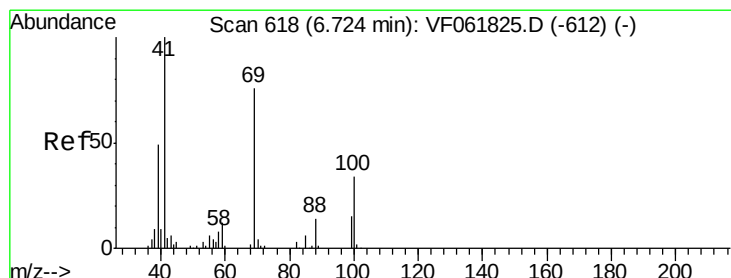
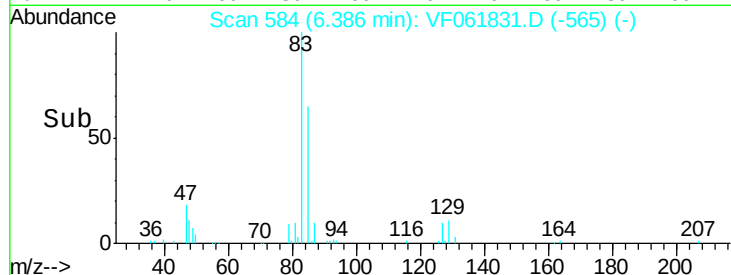
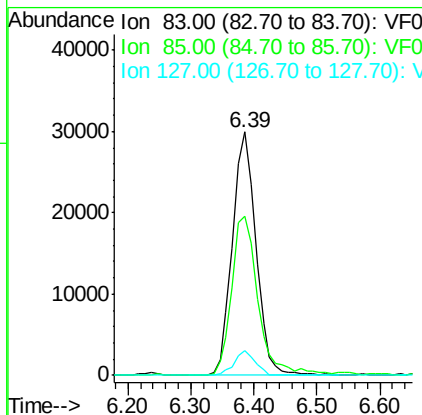
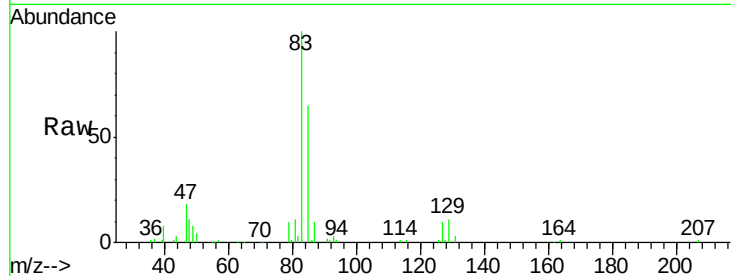
ClientSampleId :

VF0304SBS01

Tot Ion:	83	Resp:	77336
Ion	Ratio	Lower	Upper
83	100		
85	65.3	53.4	80.2
127	10.3	7.5	11.3

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.408 ug/l

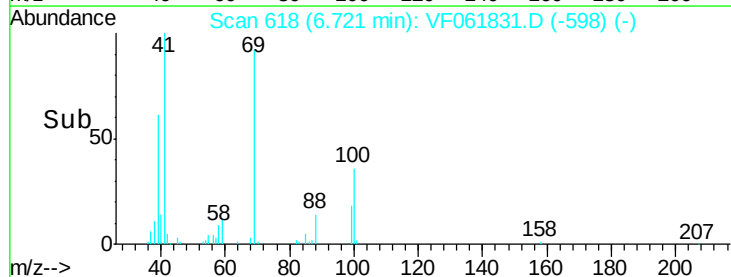
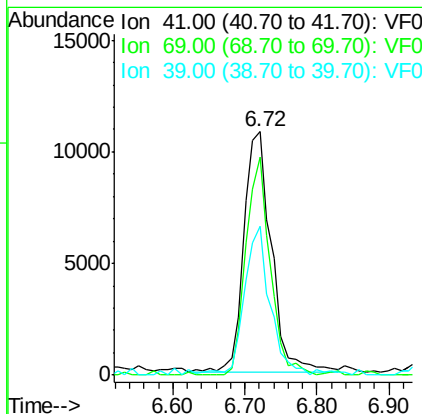
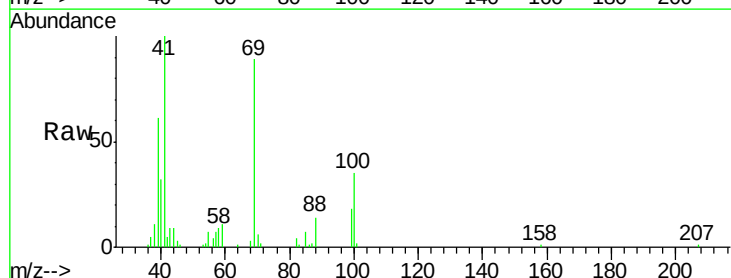
RT: 6.72 min Scan# 618

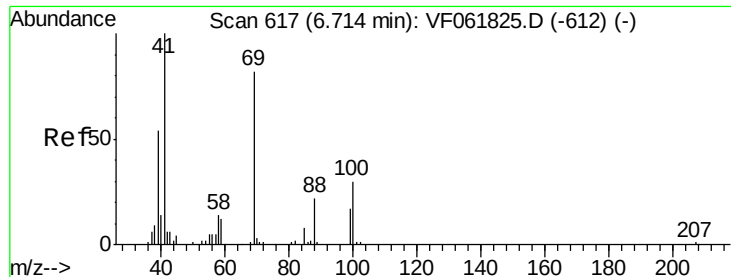
Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion:	41	Resp:	28967
Ion	Ratio	Lower	Upper
41	100		
69	89.4	60.4	90.6
39	61.1	43.7	65.5





#49

1,4-Dioxane

Concen: 403.968 ug/l

RT: 6.71 min Scan# 617

Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

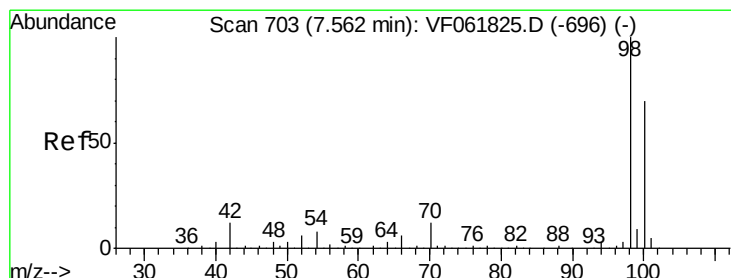
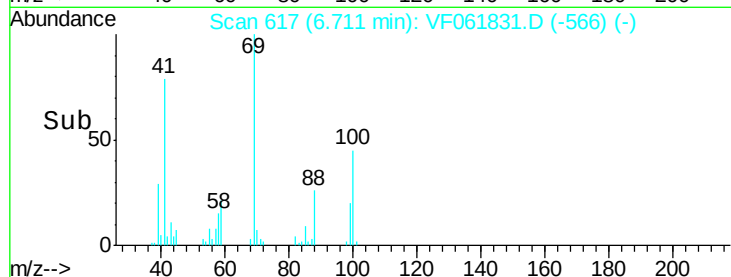
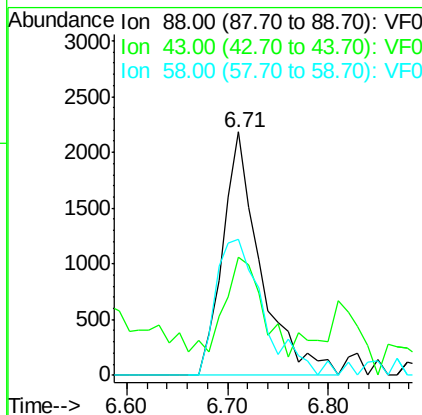
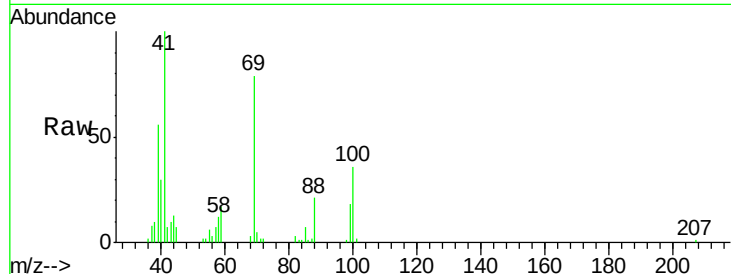
ClientSampleId :

VF0304SBS01

Tot Ion:	88	Resp:	5668
Ion	Ratio	Lower	Upper
88	100		
43	48.4	32.3	48.5
58	55.8	59.4	89.2#

Manual Integrations
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#50

Toluene-d8

Concen: 43.581 ug/l

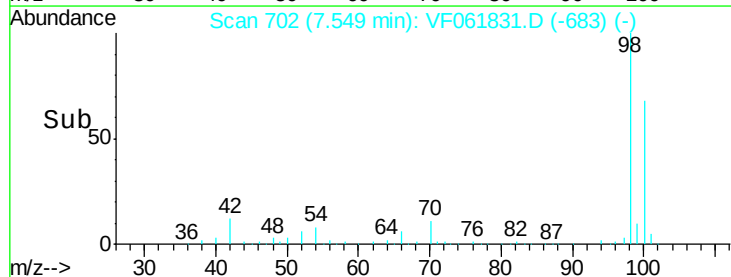
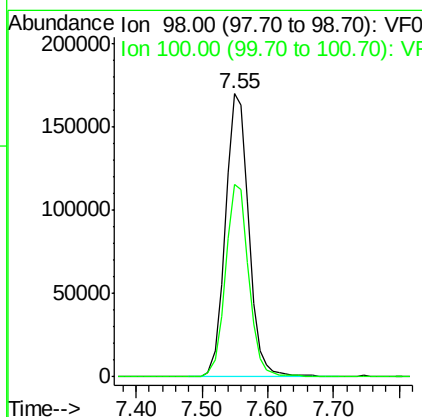
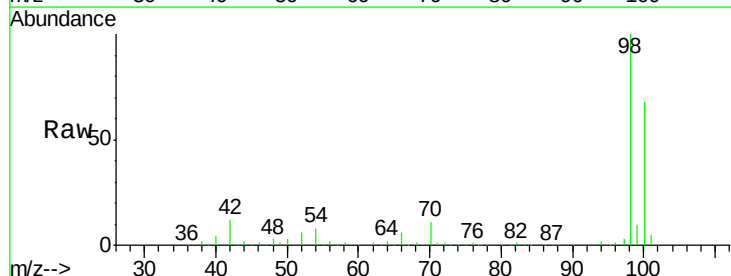
RT: 7.55 min Scan# 702

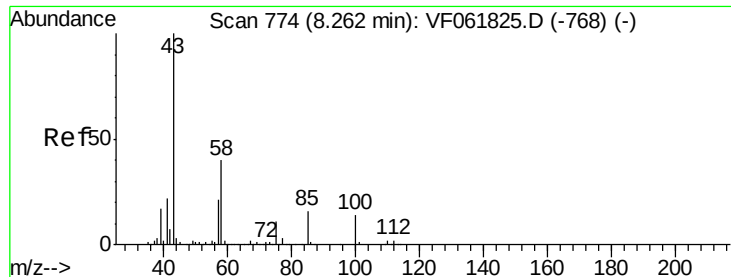
Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion:	98	Resp:	423674
Ion	Ratio	Lower	Upper
98	100		
100	68.1	55.4	83.2





#51

4-Methyl-2-Pentanone

Concen: 99.684 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 43 Resp: 176659

Ion Ratio Lower Upper

43 100

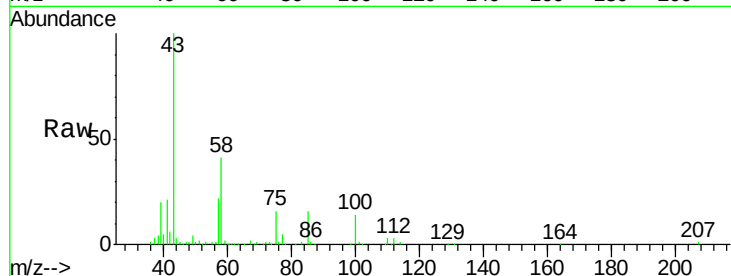
58 40.7 33.1 49.7

Manual Integrations

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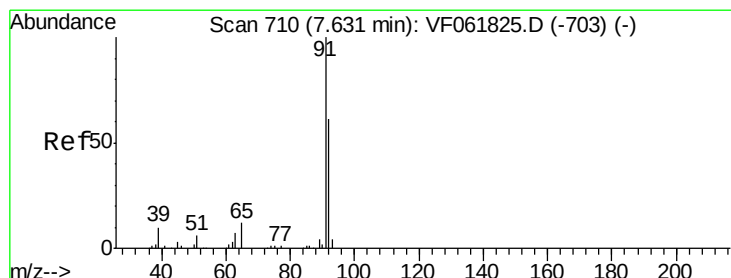
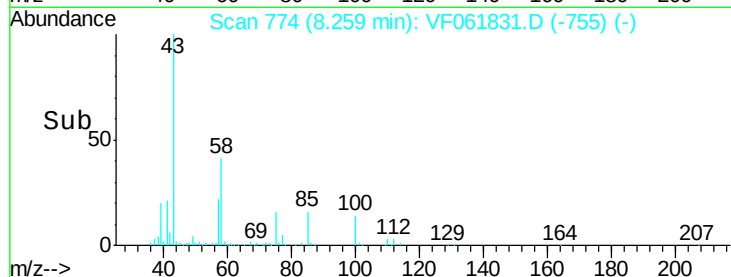
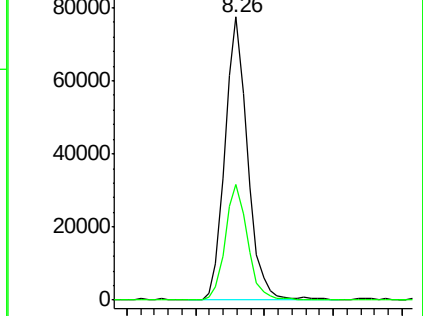
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 19.661 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.01 min

Lab File: VF061831.D

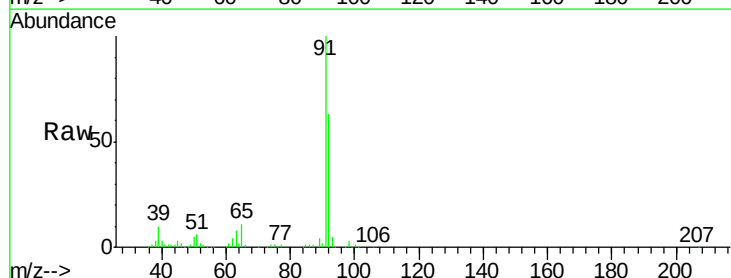
Acq: 4 Mar 2019 21:19

Tgt Ion: 92 Resp: 140702

Ion Ratio Lower Upper

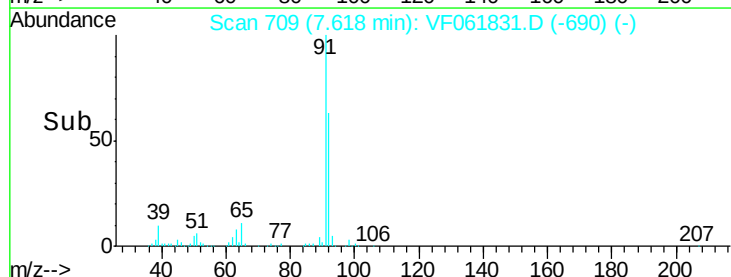
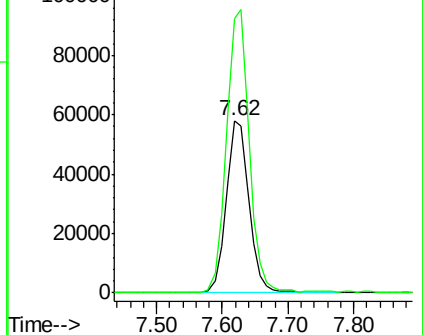
92 100

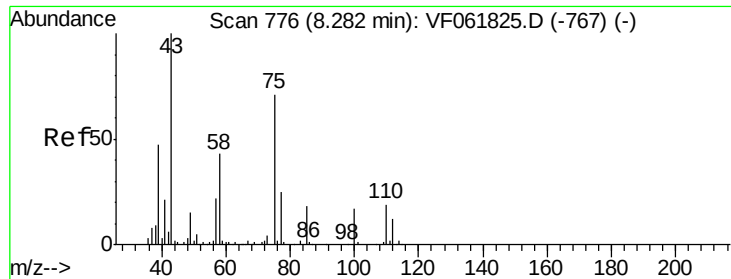
91 159.4 133.9 200.9



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 20.161 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBSD01

Tot Ion: 75 Resp: 64529

Ion Ratio Lower Upper

75 100

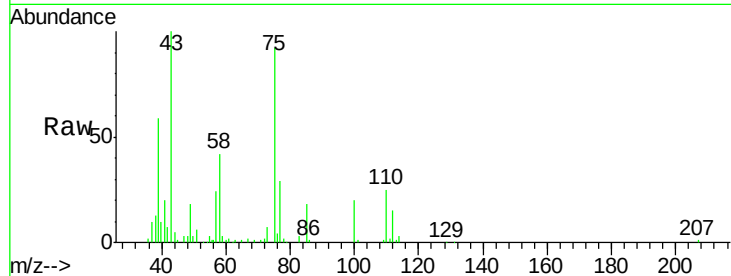
77 31.9 26.2 39.2

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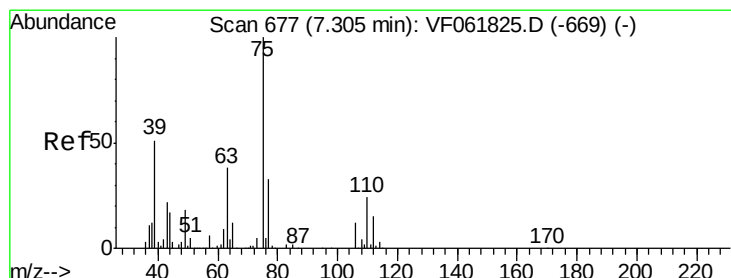
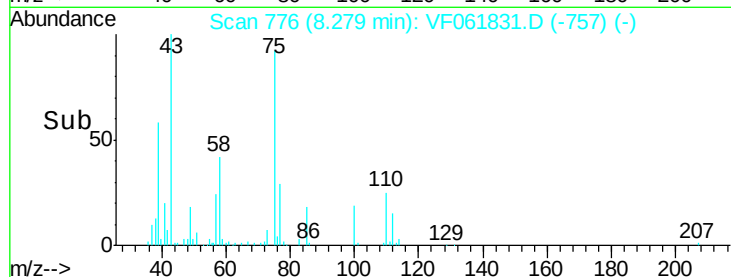
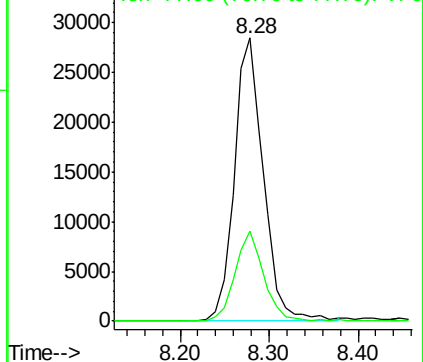
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Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 20.766 ug/l

RT: 7.30 min Scan# 677

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

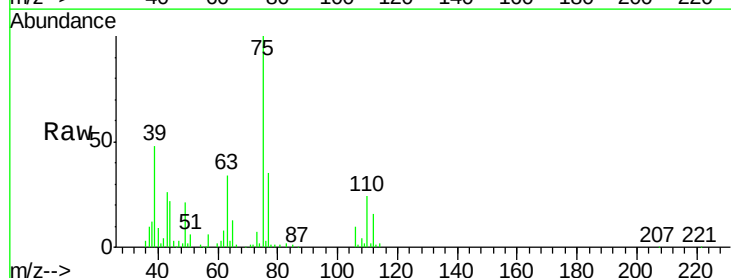
Tgt Ion: 75 Resp: 88531

Ion Ratio Lower Upper

75 100

77 34.6 26.4 39.6

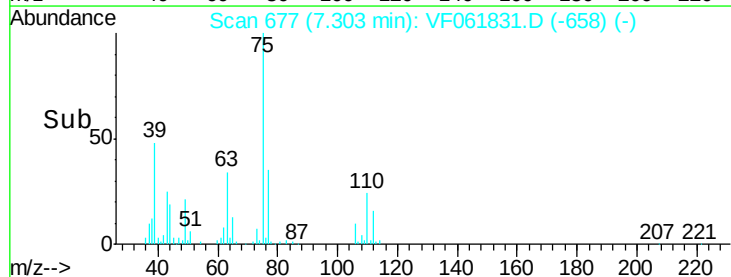
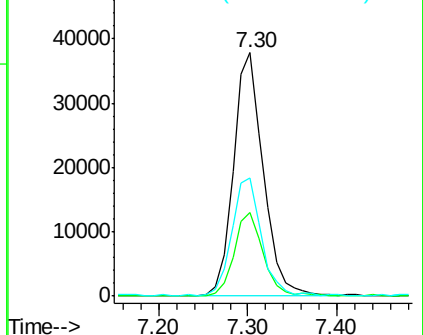
39 48.3 36.0 54.0

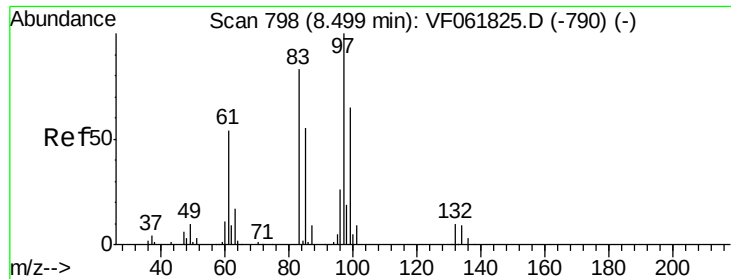


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 18.797 ug/l

RT: 8.49 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

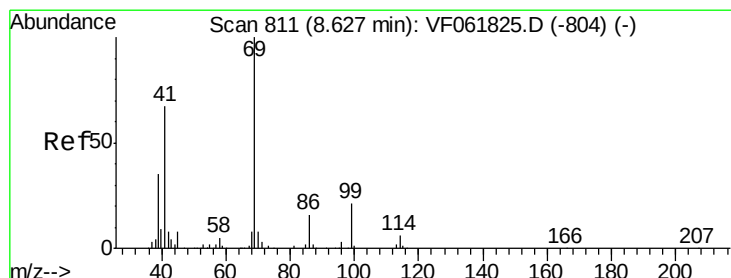
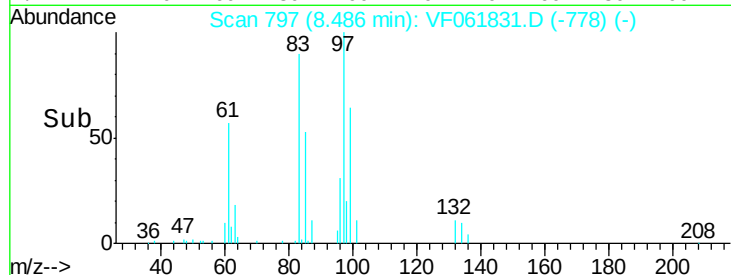
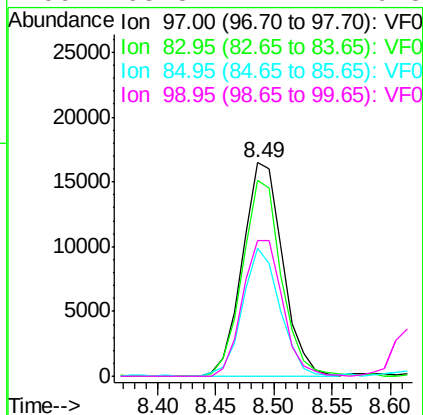
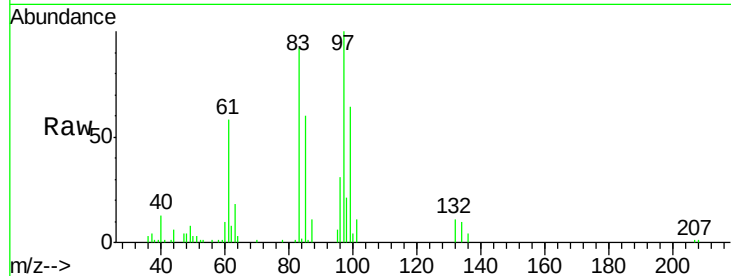
ClientSampleId :

VF0304SBS01

Tot Ion:	97	Resp:	39523
Ion	Ratio	Lower	Upper
97	100		
83	91.9	69.2	103.8
85	59.7	43.0	64.4
99	63.8	47.2	70.8

Manual Integrations
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#56

Ethyl methacrylate

Concen: 20.129 ug/l

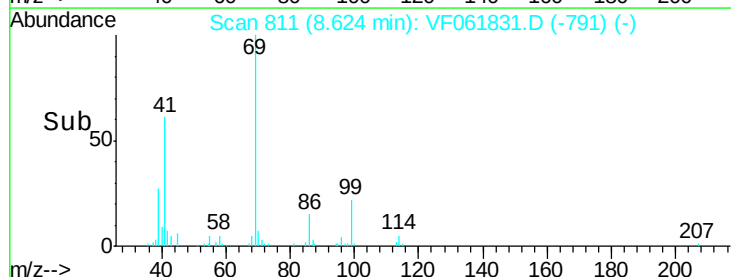
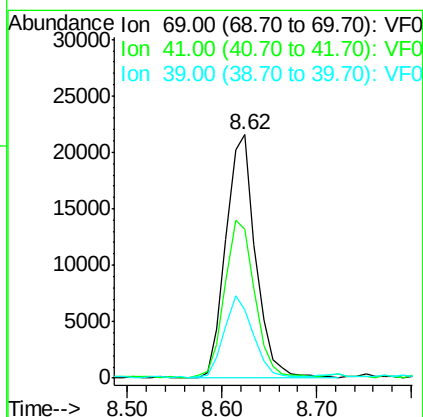
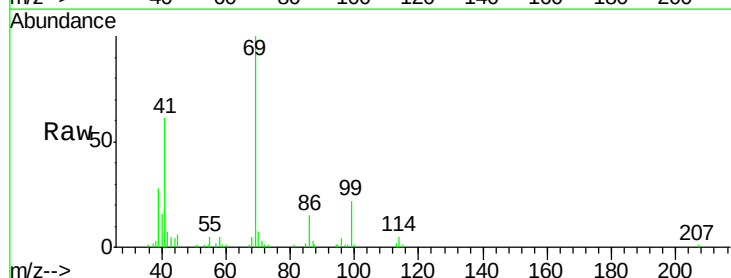
RT: 8.62 min Scan# 811

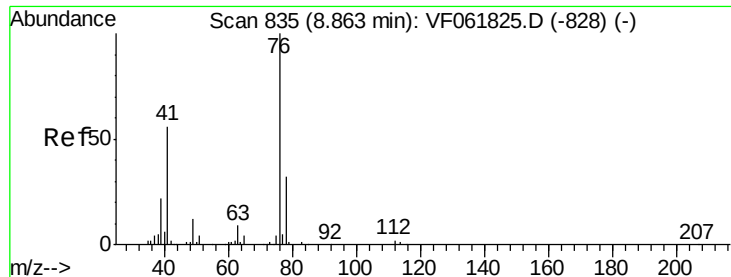
Delta R.T. -0.00 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion:	69	Resp:	47121
Ion	Ratio	Lower	Upper
69	100		
41	61.0	52.9	79.3
39	28.0	24.5	36.7





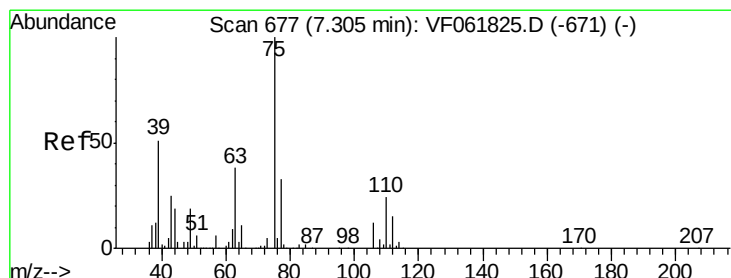
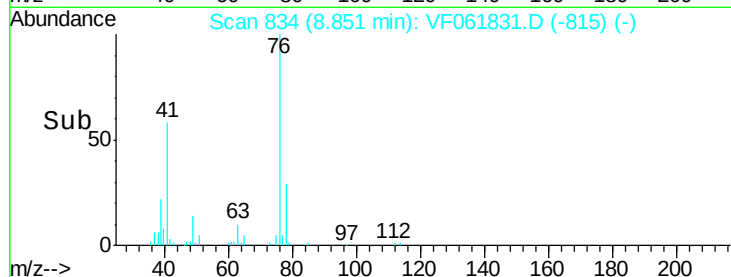
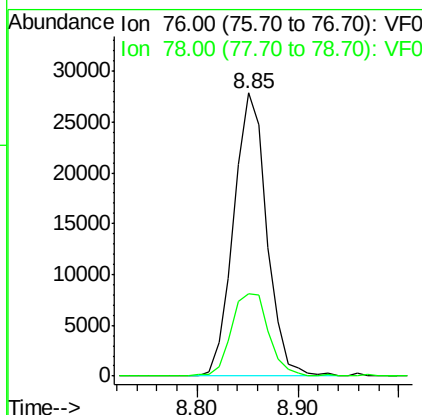
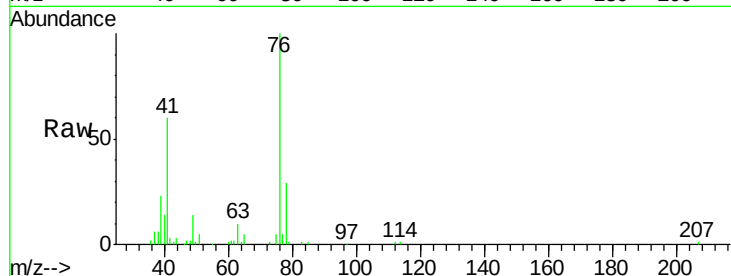
#57
 1,3-Dichloropropane
 Concen: 18.136 ug/l
 RT: 8.85 min Scan# 834
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	29.2	27.8	41.6

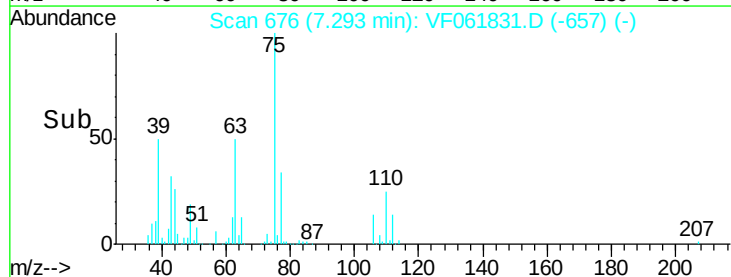
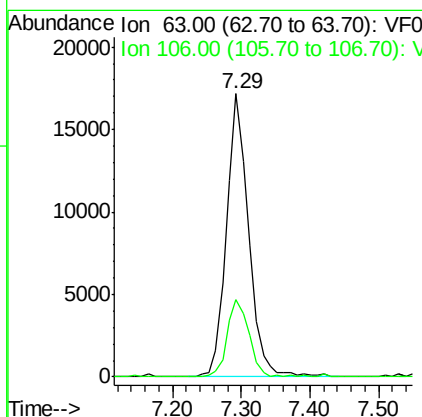
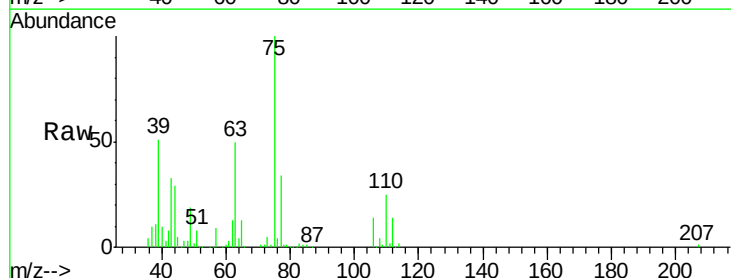
Manual Integrations
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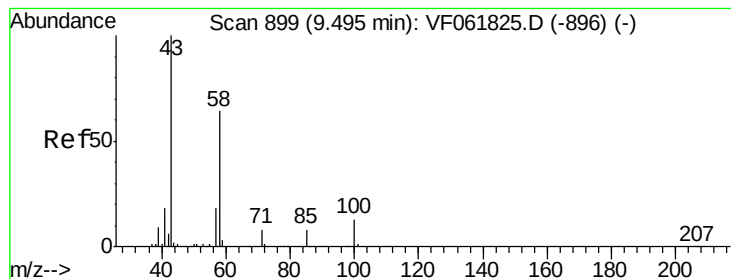
MMDadoda
 3/5/2019 10:48:16 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 94.623 ug/l
 RT: 7.29 min Scan# 676
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.3	24.6	36.8





#59

2-Hexanone

Concen: 96.294 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 43 Resp: 119622

Ion Ratio Lower Upper

43 100

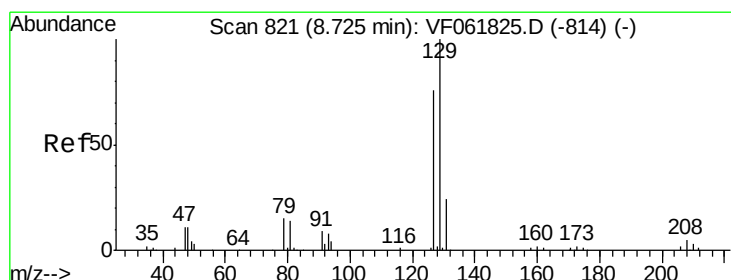
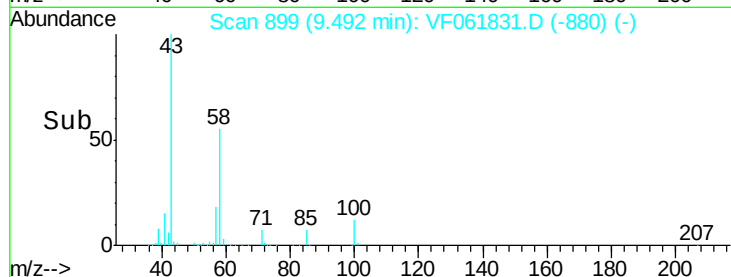
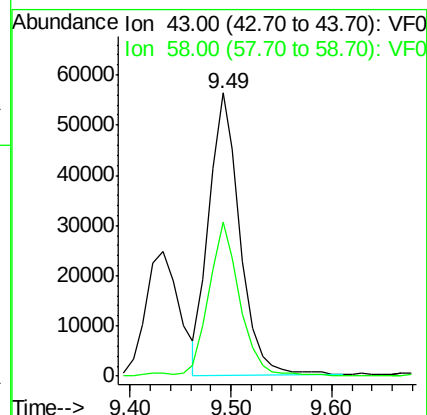
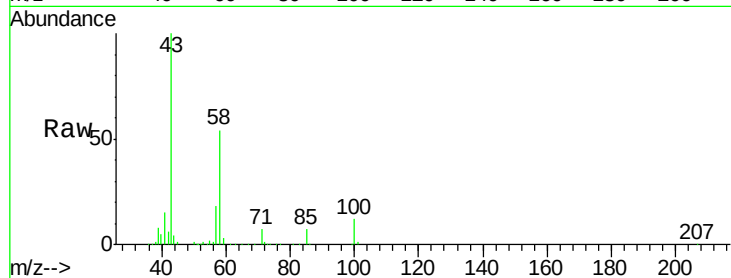
58 54.4 28.5 85.5

Manual Integrations

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MMDadoda

3/5/2019 10:48:16 AM



#60

Dibromochloromethane

Concen: 18.296 ug/l

RT: 8.71 min Scan# 820

Delta R.T. -0.01 min

Lab File: VF061831.D

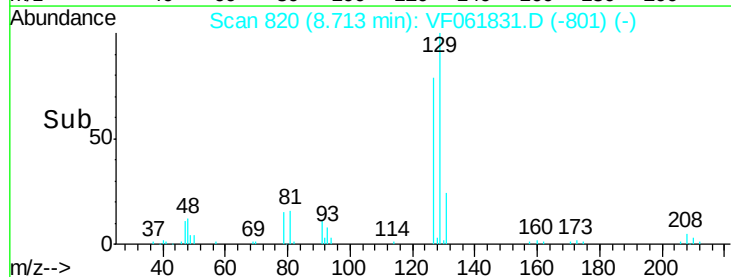
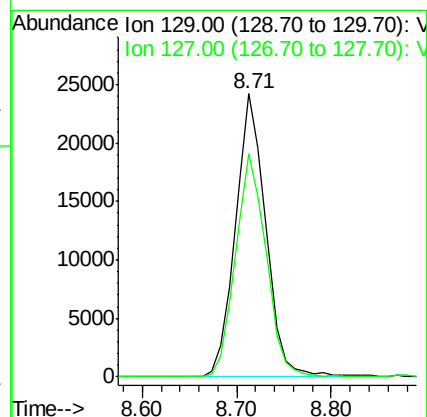
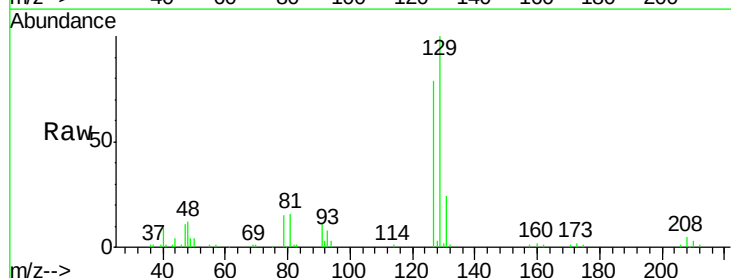
Acq: 4 Mar 2019 21:19

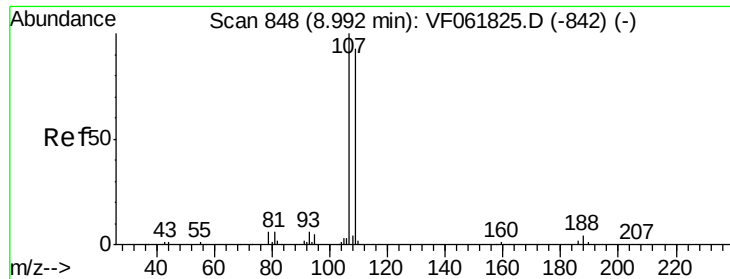
Tgt Ion: 129 Resp: 53544

Ion Ratio Lower Upper

129 100

127 78.6 37.8 113.4





#61

1,2-Dibromoethane

Concen: 19.668 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion:107 Resp: 44854

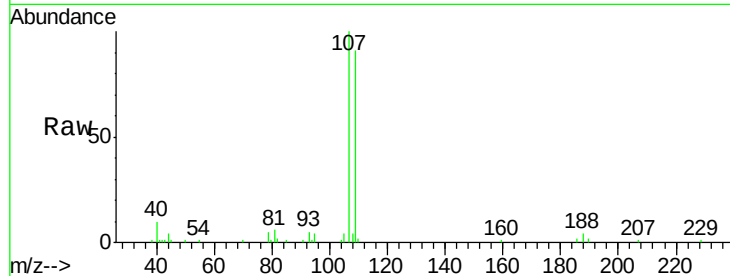
Ion Ratio Lower Upper

107 100

109 91.1 77.4 116.0

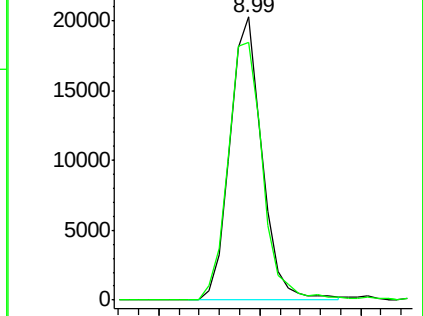
Manual Integrations
APPROVED

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3/5/2019 10:48:16 AM

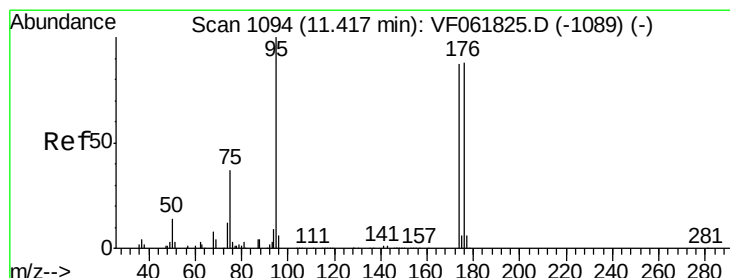
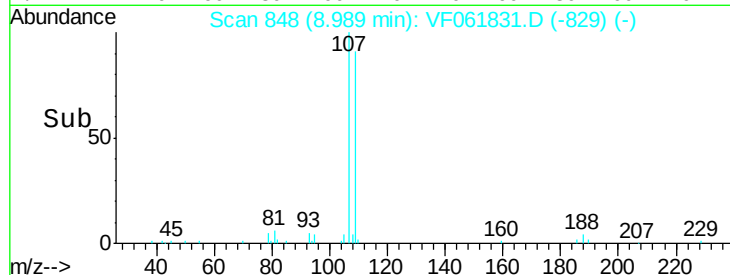


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



Time-->



#62

4-Bromofluorobenzene

Concen: 42.697 ug/l

RT: 11.40 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

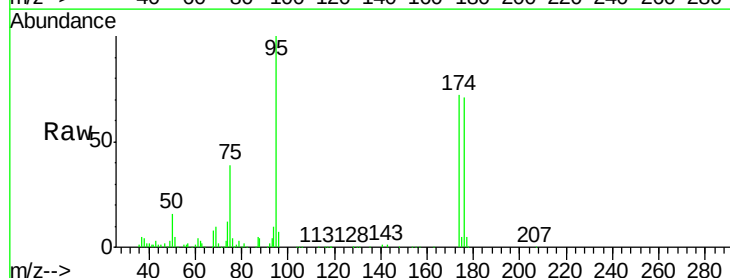
Tgt Ion: 95 Resp: 167950

Ion Ratio Lower Upper

95 100

174 72.3 0.0 165.8

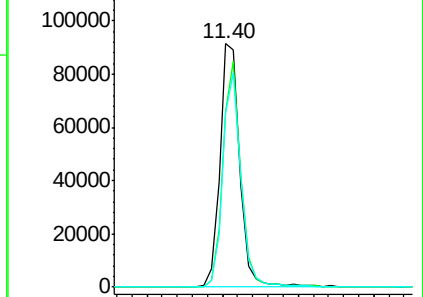
176 71.4 0.0 167.0



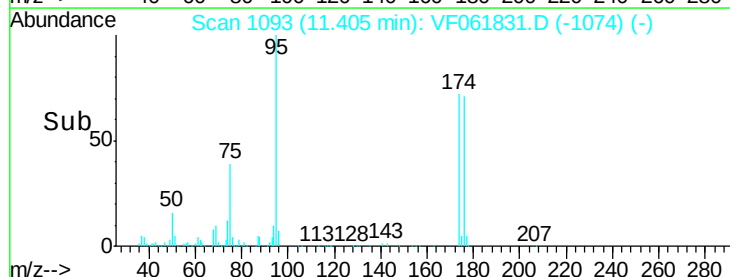
Abundance Ion 95.00 (94.70 to 95.70): VF0

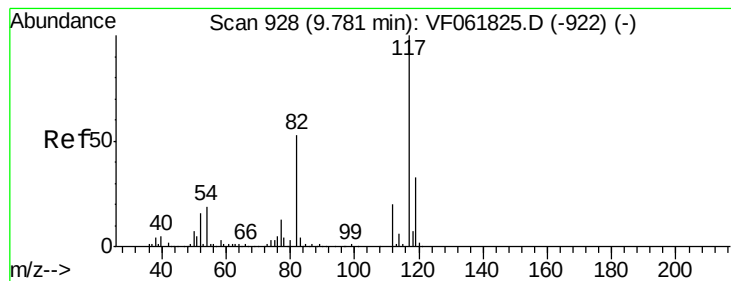
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



Time-->





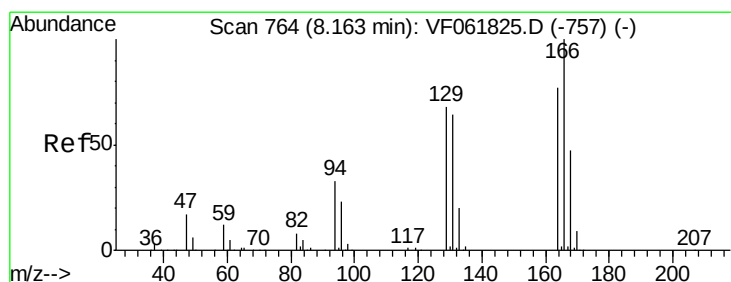
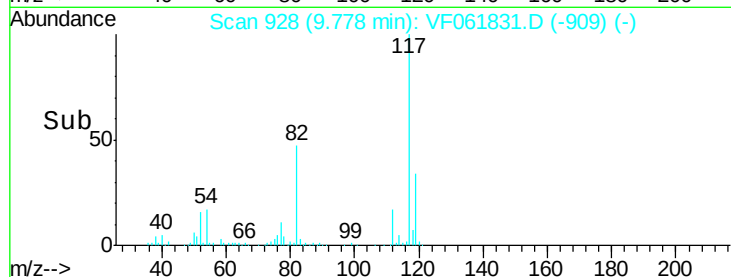
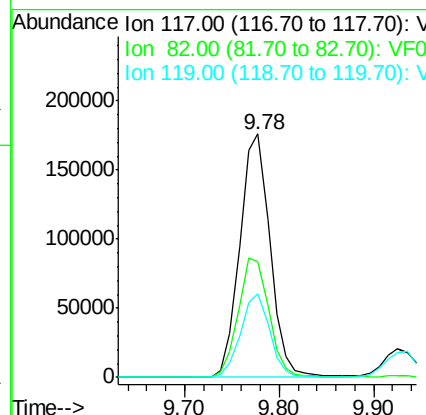
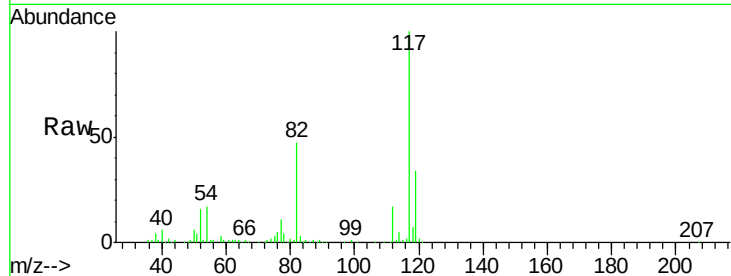
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	391447		
82	47.3		39.3	58.9
119	34.1		26.6	40.0

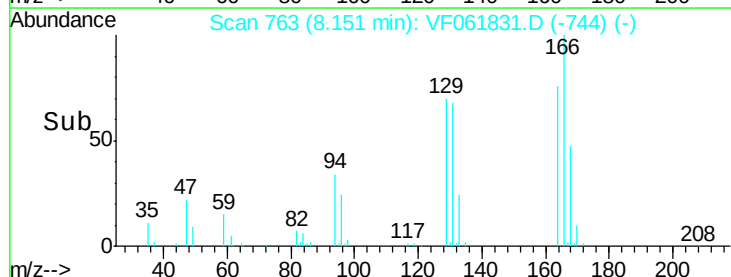
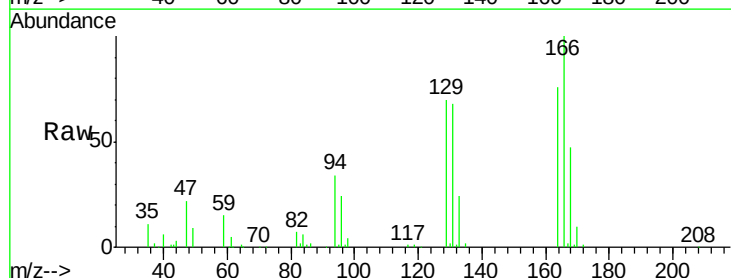
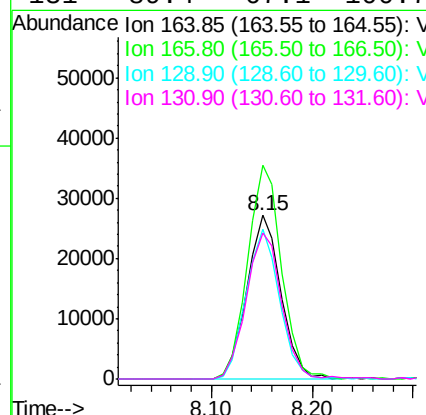
Manual Integrations
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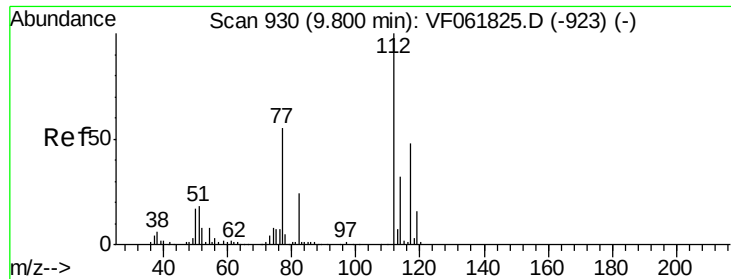
MMDadoda
3/5/2019 10:48:16 AM



#64
Tetrachloroethene
Concen: 20.024 ug/l
RT: 8.15 min Scan# 763
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	64069		
166	130.8		103.9	155.9
129	91.9		71.3	106.9
131	89.4		67.1	100.7





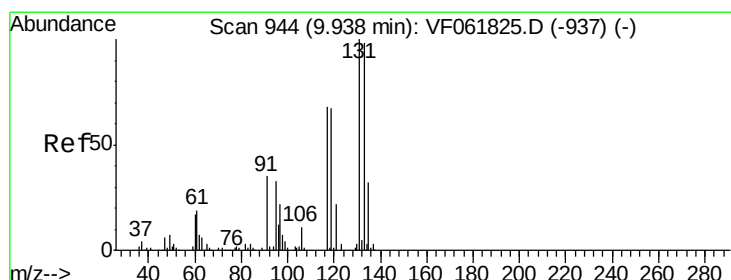
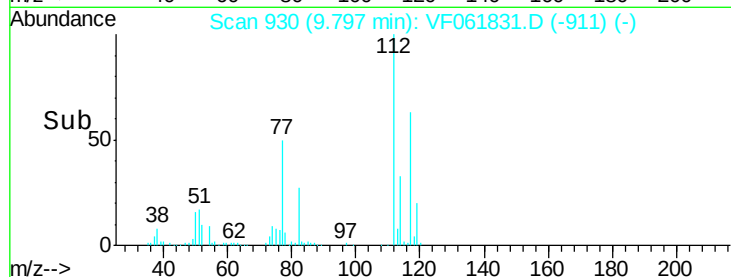
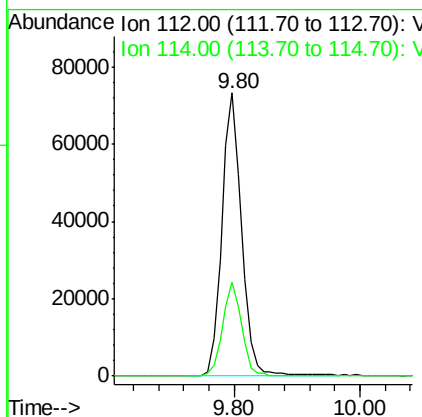
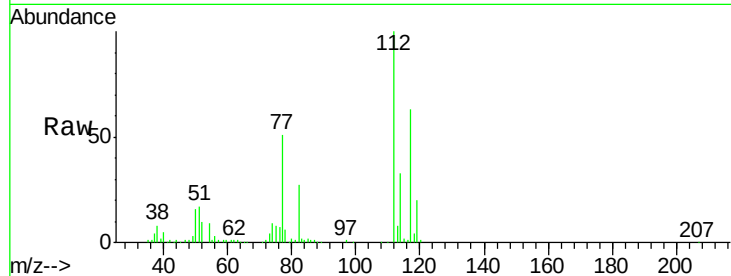
#65
Chlorobenzene
Concen: 20.124 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.1	26.2	39.2

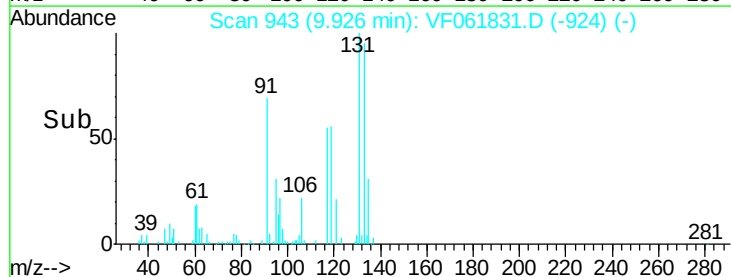
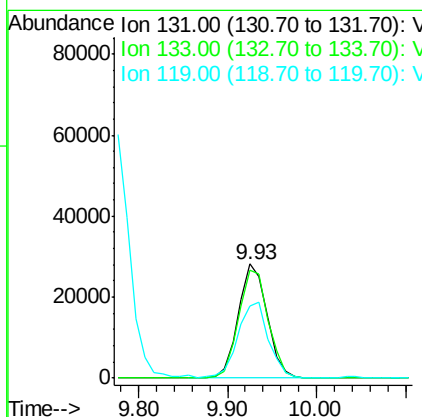
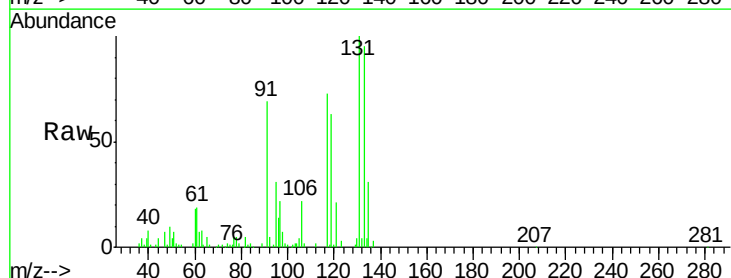
Manual Integrations
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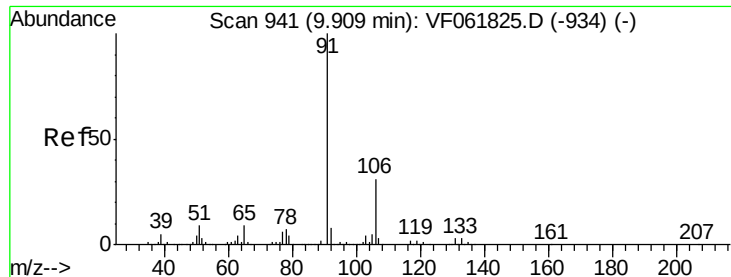
MMDadoda
3/5/2019 10:48:16 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.375 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	48.9	146.6
119	63.3	34.8	104.3





#67

Ethyl Benzene

Concen: 19.955 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 91 Resp: 263600

Ion Ratio Lower Upper

91 100

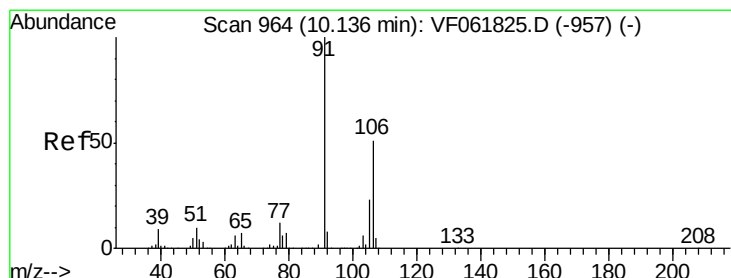
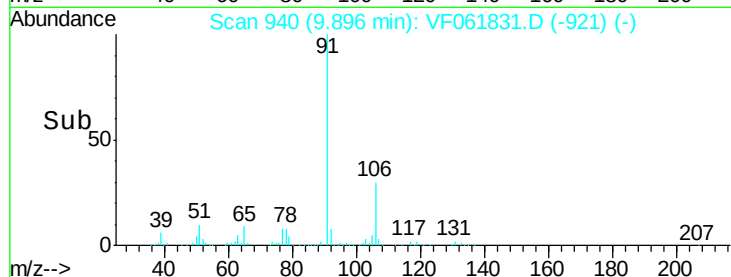
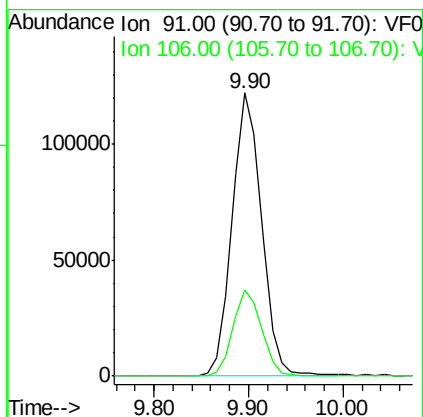
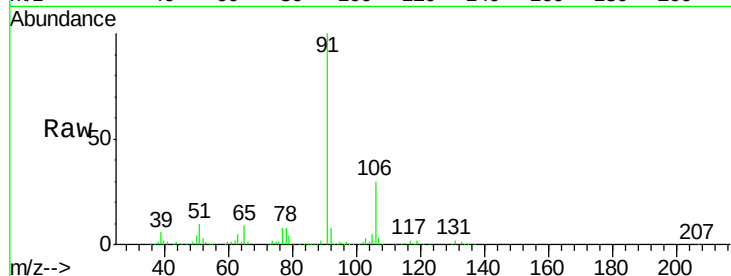
106 30.4 24.1 36.1

Manual Integrations

APPROVED

MMDadoda

3/5/2019 10:48:16 AM



#68

m/p-Xylenes

Concen: 39.525 ug/l

RT: 10.13 min Scan# 964

Delta R.T. -0.01 min

Lab File: VF061831.D

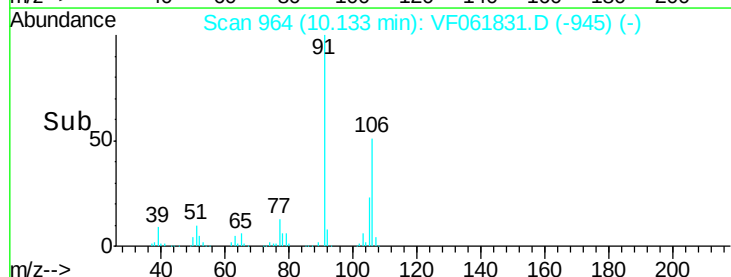
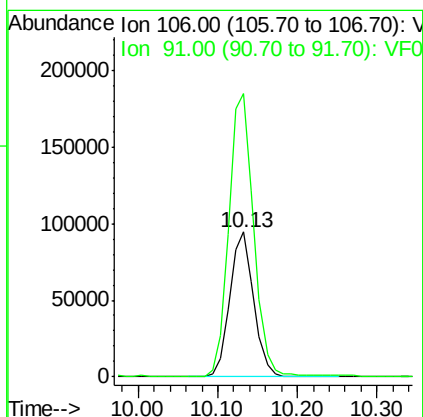
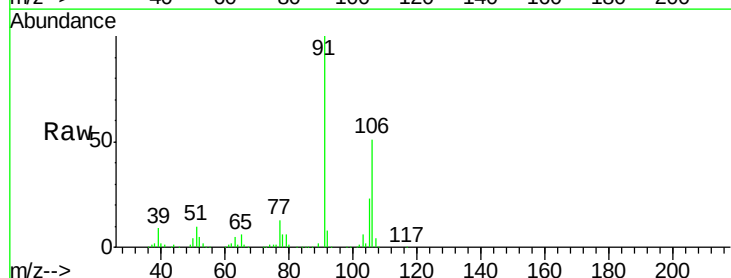
Acq: 4 Mar 2019 21:19

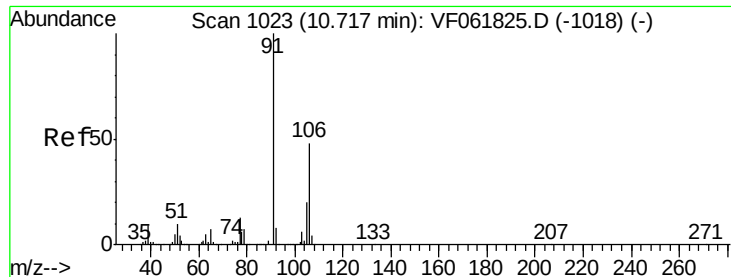
Tgt Ion: 106 Resp: 199819

Ion Ratio Lower Upper

106 100

91 195.5 153.0 229.6





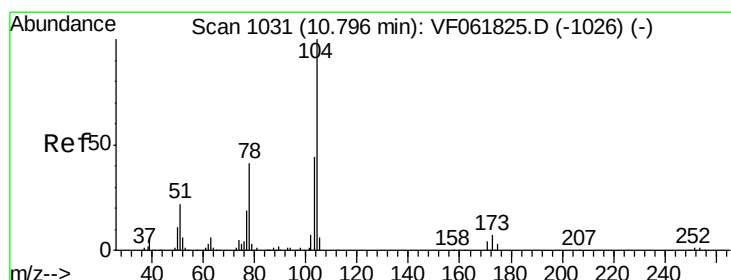
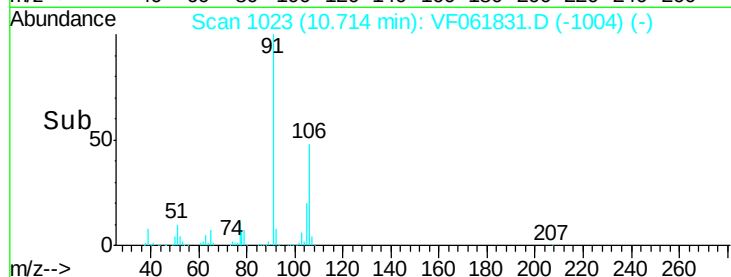
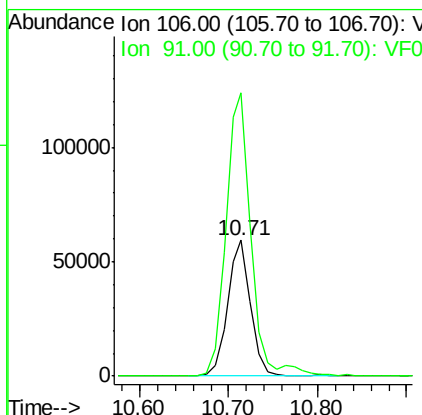
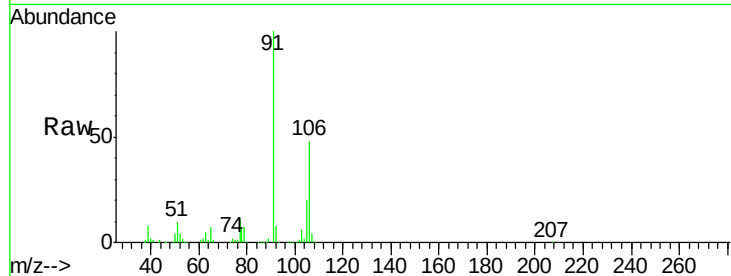
#69
o-Xylene
Concen: 20.117 ug/l
RT: 10.71 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	Ion	Ratio	Lower	Upper
106	106	100		
91	91	208.3	100.1	300.1

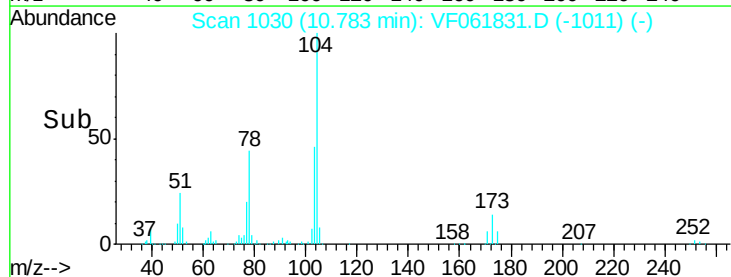
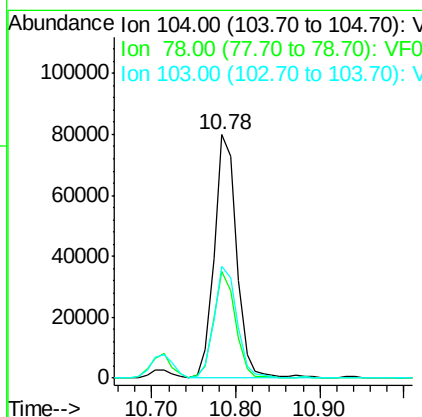
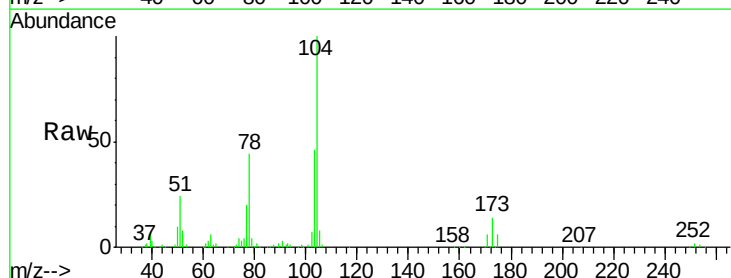
Manual Integrations
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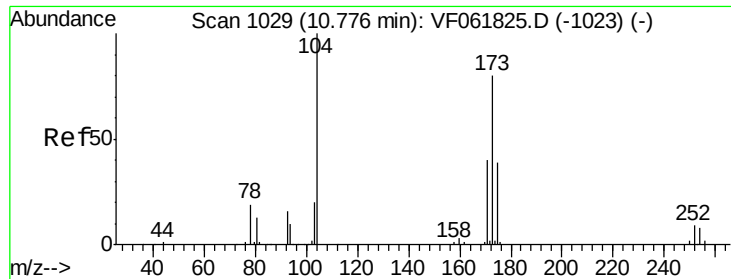
MMDadoda
3/5/2019 10:48:16 AM



#70
Styrene
Concen: 19.301 ug/l
RT: 10.78 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ion	Ratio	Lower	Upper
104	104	100		
78	78	43.8	33.2	49.8
103	103	45.9	37.2	55.8





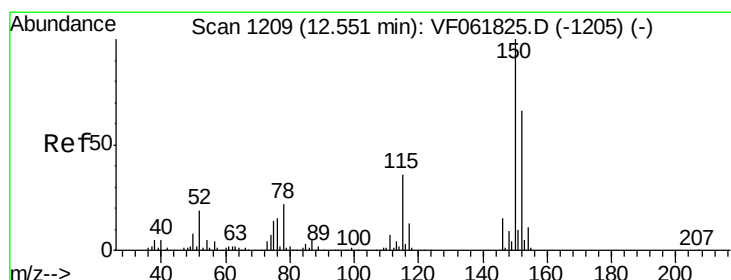
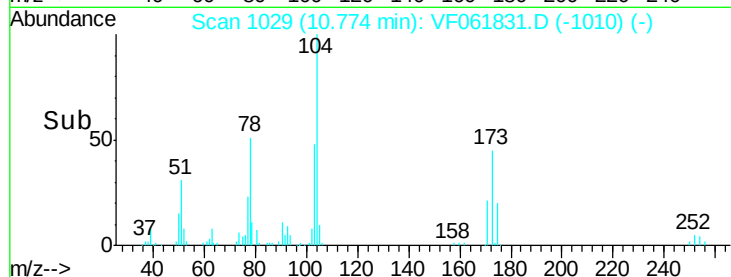
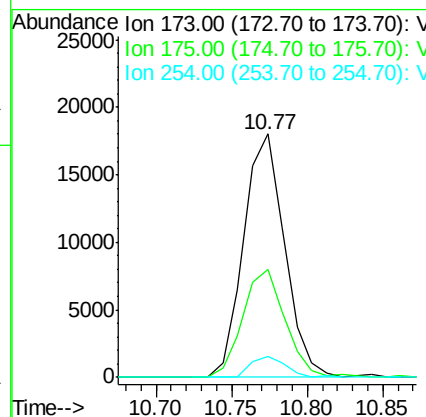
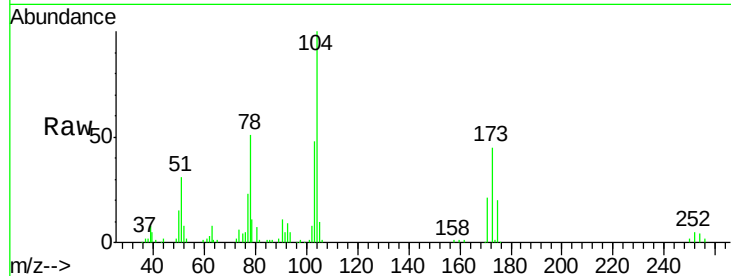
#71
Bromoform
Concen: 20.161 ug/l
RT: 10.77 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	44.4	24.0	72.0
254	8.5	8.2	12.2

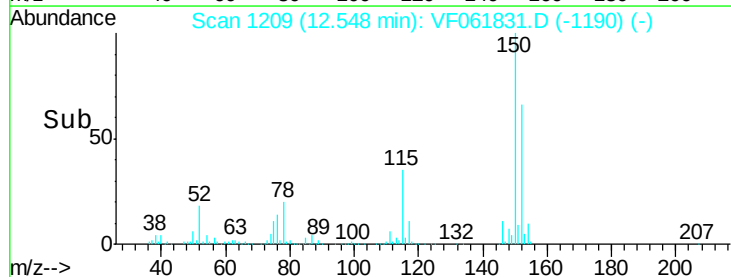
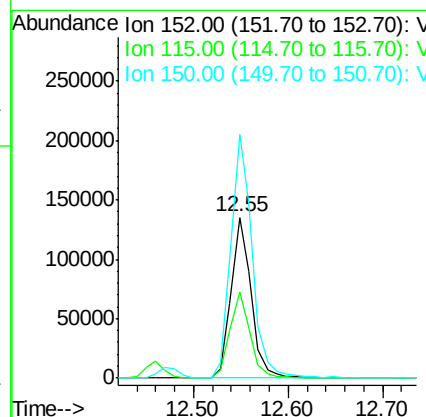
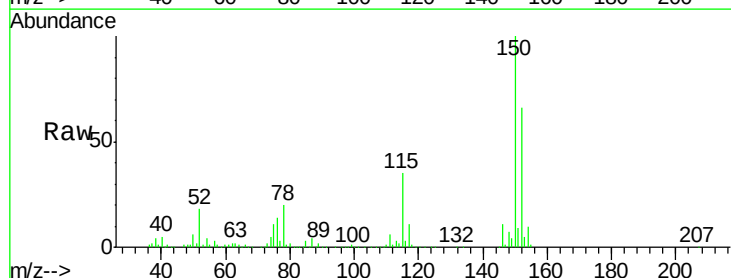
Manual Integrations
APPROVED

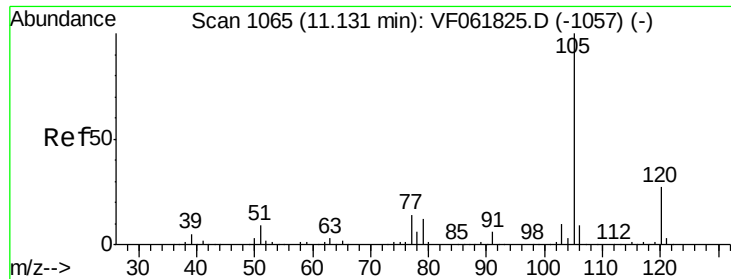
MMDadoda
3/5/2019 10:48:16 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.4	24.3	72.8
150	151.6	0.0	312.0





#73

Isopropylbenzene

Concen: 22.451 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion:105 Resp: 316583

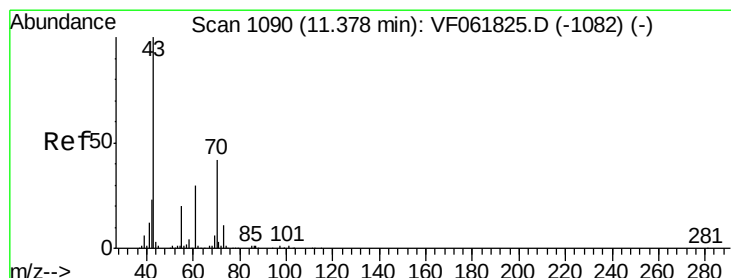
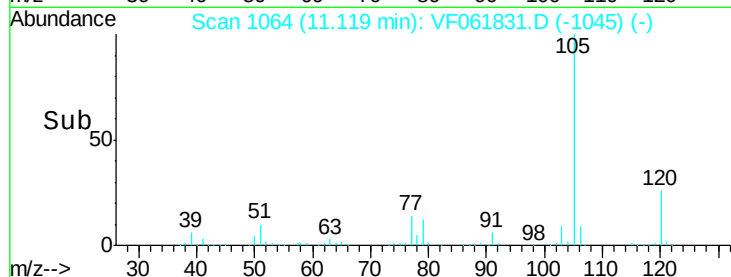
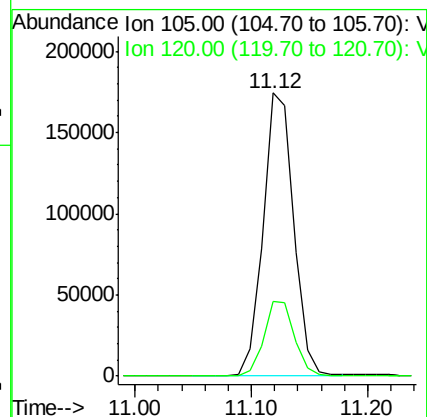
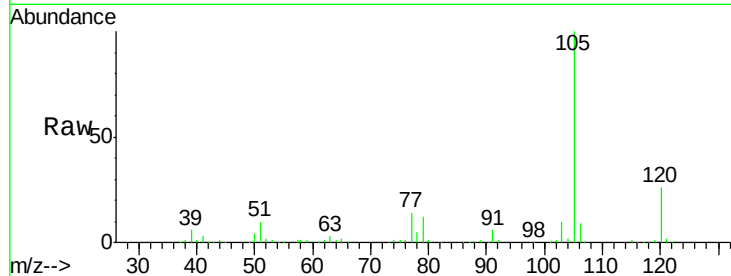
Ion Ratio Lower Upper

105 100

120 26.3 13.4 40.1

Manual Integrations
APPROVED

MMDadoda
3/5/2019 10:48:16 AM



#74

N-ethyl acetate

Concen: 23.149 ug/l

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion: 43 Resp: 78353

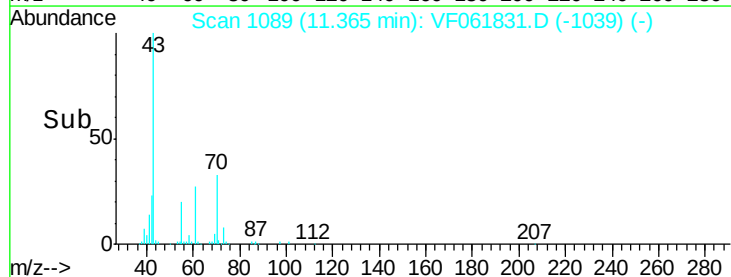
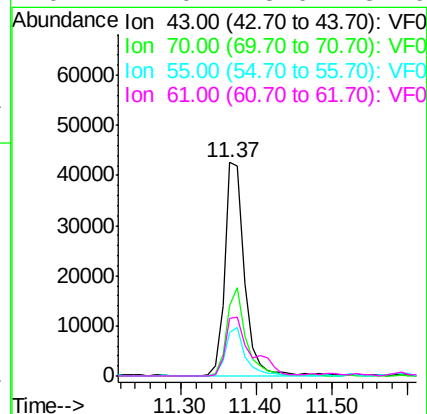
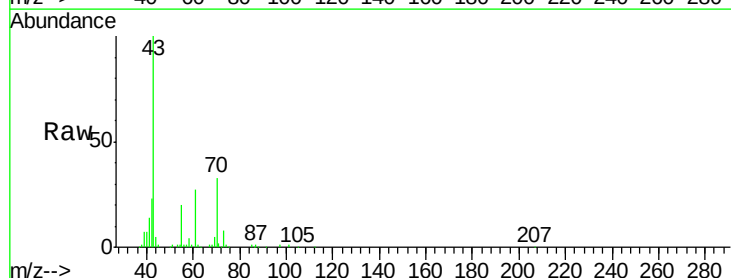
Ion Ratio Lower Upper

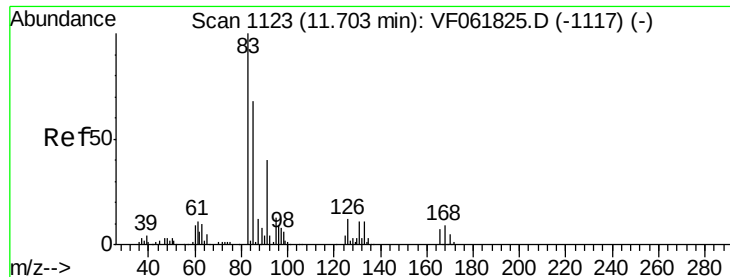
43 100

70 32.7 31.5 47.3

55 20.5 16.7 25.1

61 27.0 23.0 34.6





#75

1,1,2,2-Tetrachloroethane

Concen: 21.671 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

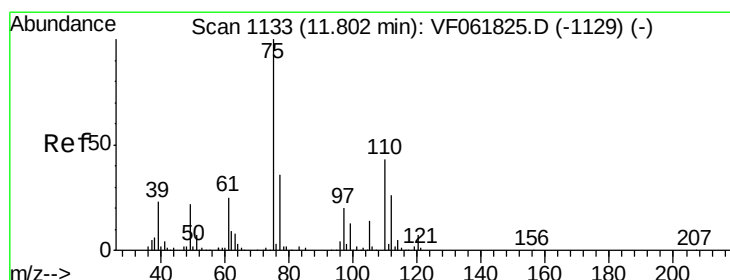
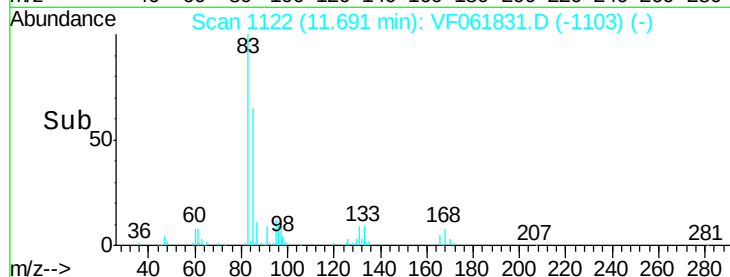
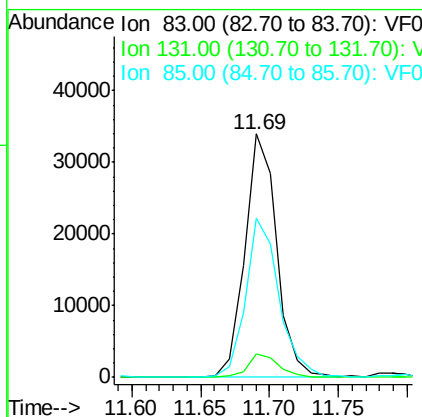
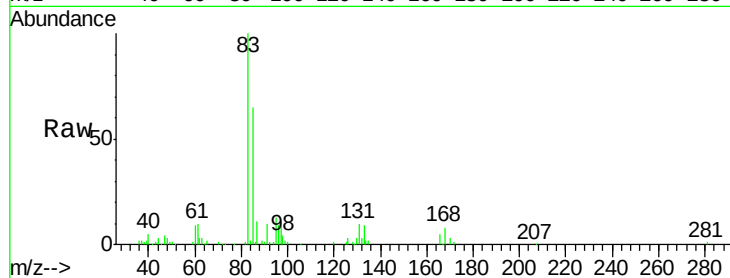
ClientSampleId :

VF0304SBS01

Tot Ion:	83	Resp:	54748
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.4	13.2
85	65.2	31.5	94.5

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 20.815 ug/l

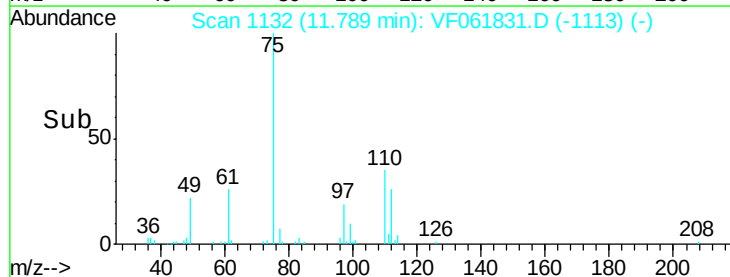
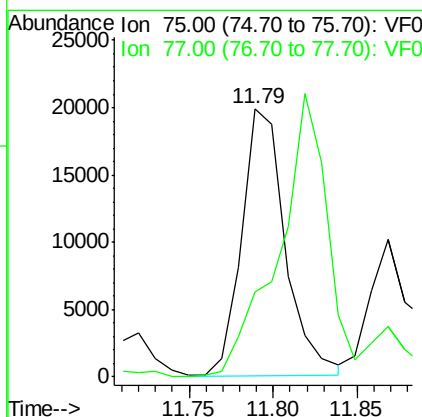
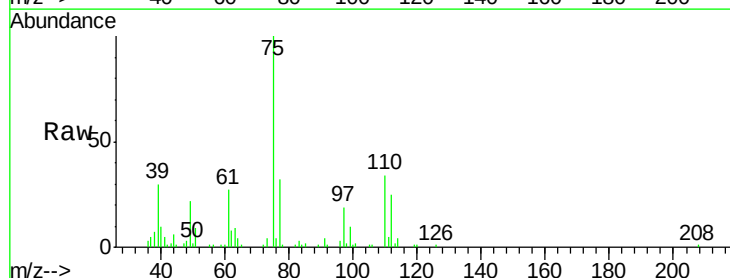
RT: 11.79 min Scan# 1132

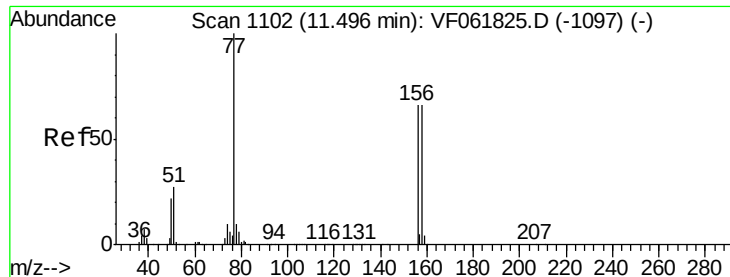
Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion:	75	Resp:	35751
Ion Ratio	Lower	Upper	
75	100		
77	32.9	16.6	49.7





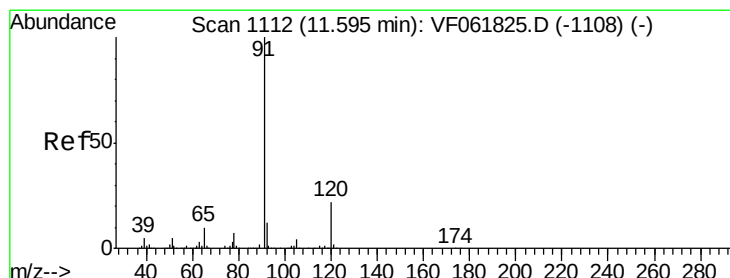
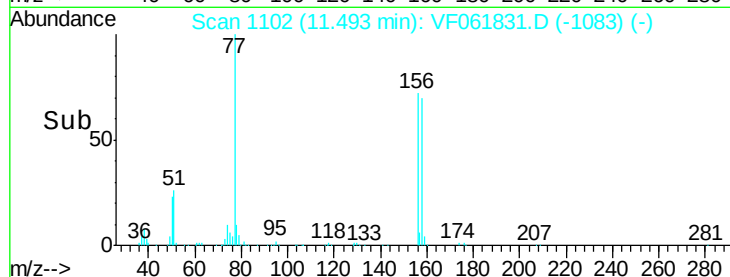
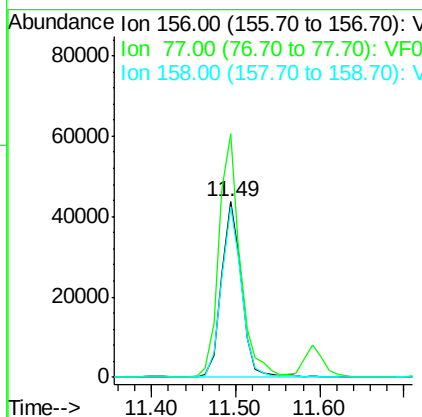
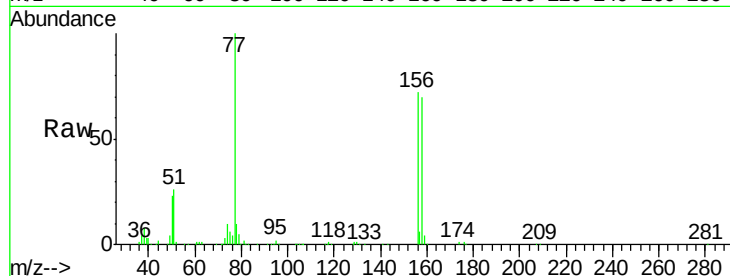
#77
Bromobenzene
Concen: 20.731 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	138.7	64.3	192.7	
158	97.5	50.9	152.7	

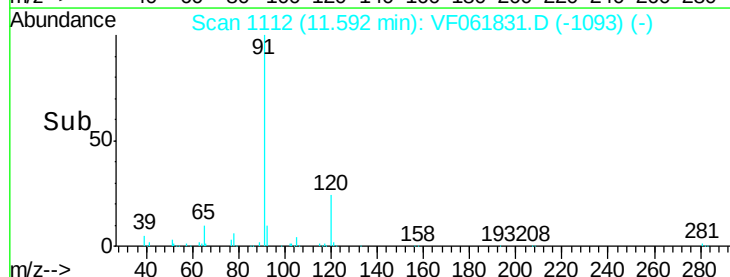
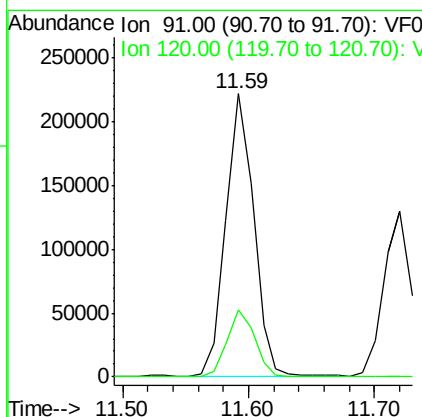
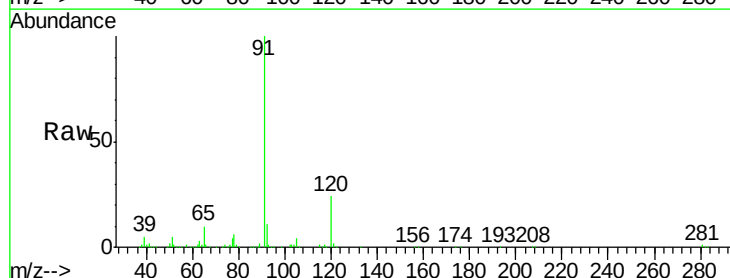
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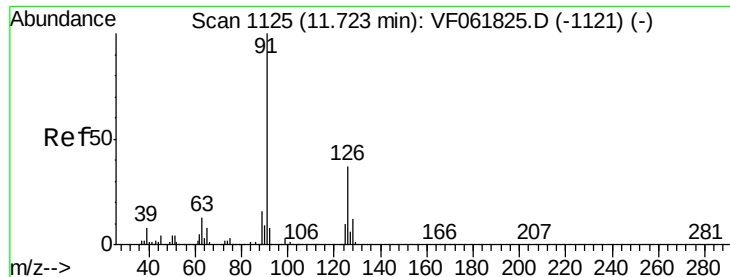
MMDadoda
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#78
n-propylbenzene
Concen: 21.128 ug/l
RT: 11.59 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.7	12.1	36.3	





#79

2-Chlorotoluene

Concen: 22.036 ug/l

RT: 11.72 min Scan# 1125

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

ClientSampleId :

VF0304SBS01

Tot Ion: 91 Resp: 199699

Ion Ratio Lower Upper

91 100

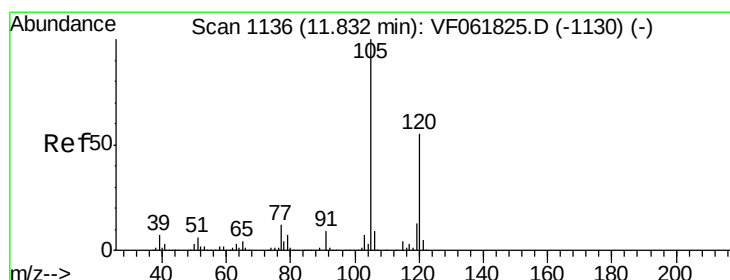
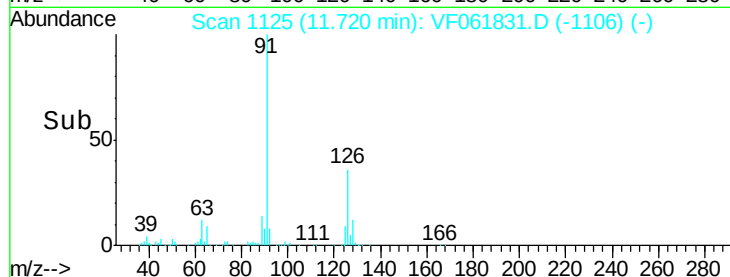
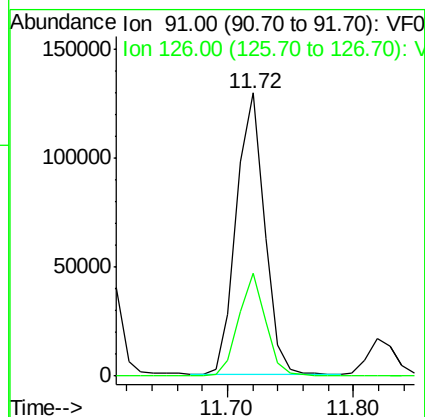
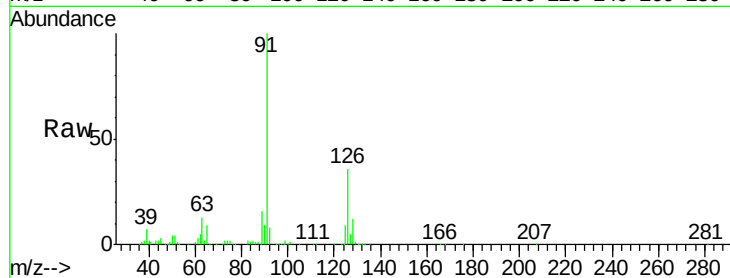
126 36.3 19.8 59.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 23.092 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VF061831.D

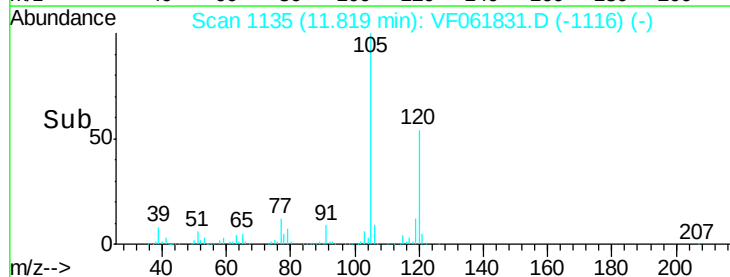
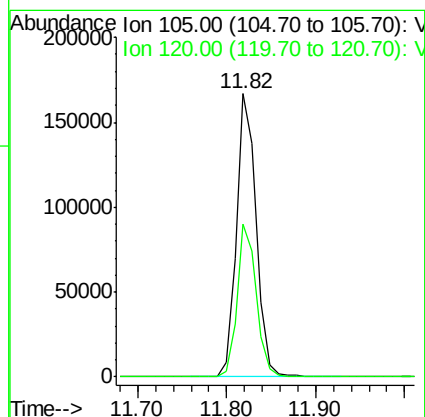
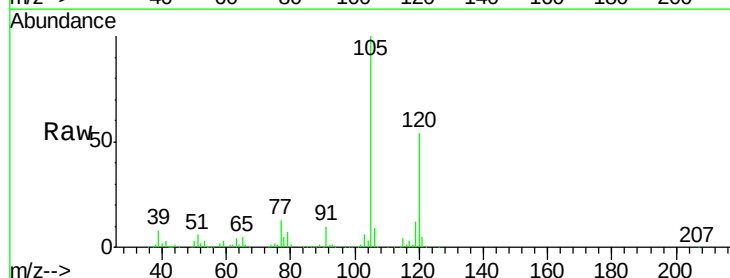
Acq: 4 Mar 2019 21:19

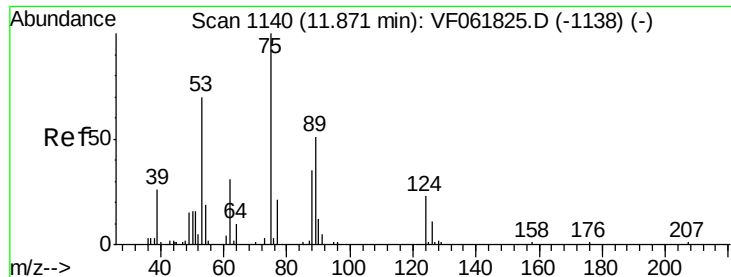
Tgt Ion: 105 Resp: 260250

Ion Ratio Lower Upper

105 100

120 53.9 27.9 83.6





#81

trans-1,4-Dichloro-2-butene

Concen: 20.365 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

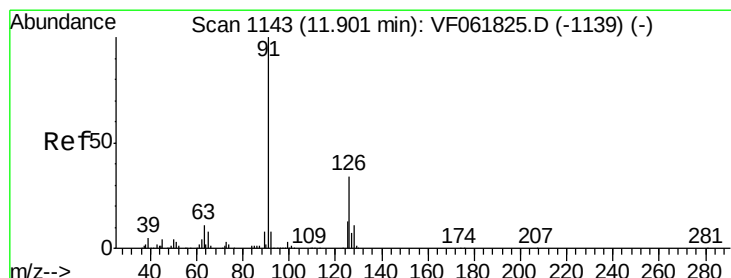
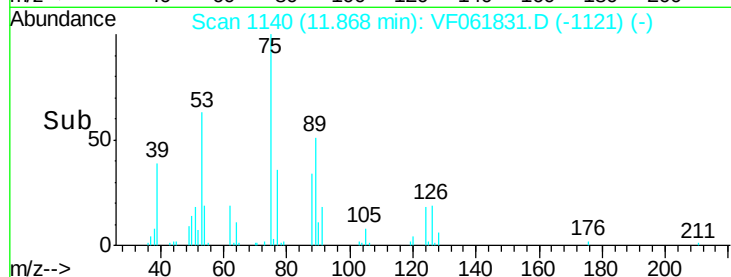
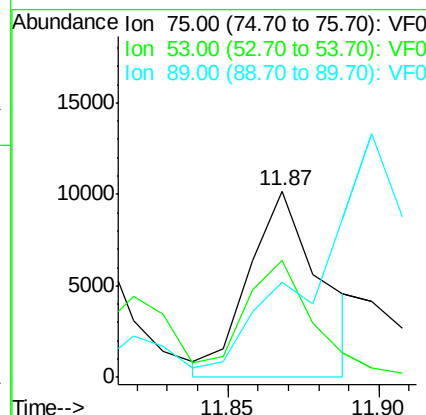
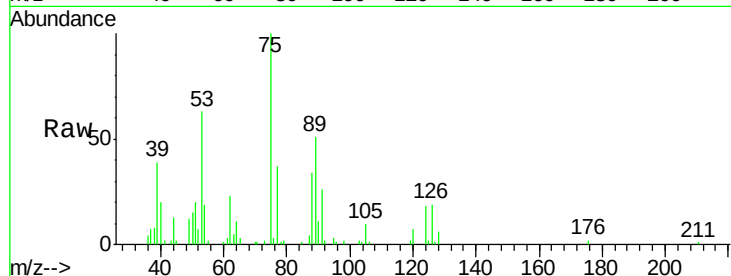
ClientSampleId :

VF0304SBS01

Tot Ion:	75	Resp:	16769
Ion	Ratio	Lower	Upper
75	100		
53	62.5	53.7	80.5
89	50.9	41.6	62.4

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#82

4-Chlorotoluene

Concen: 21.702 ug/l

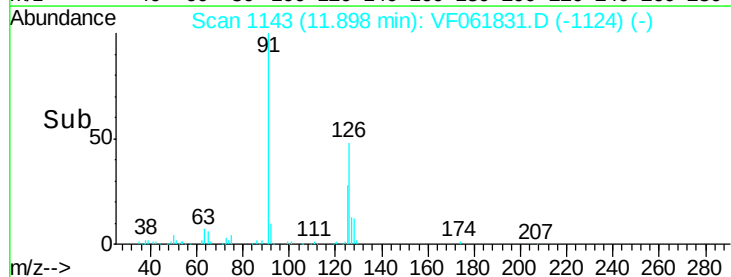
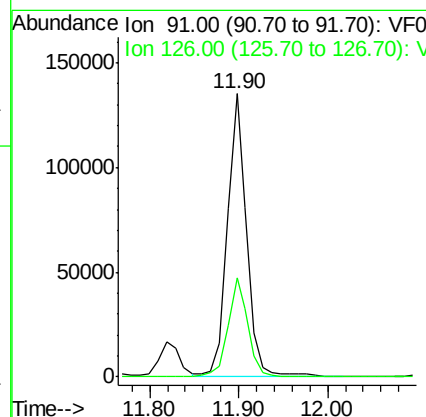
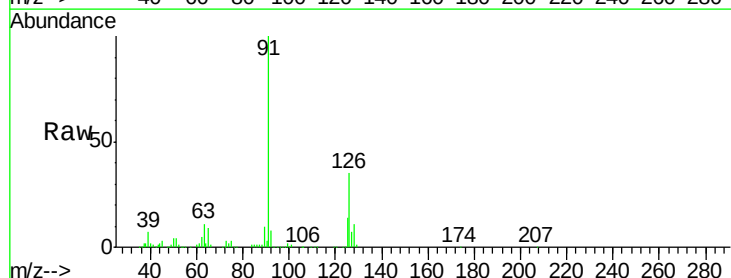
RT: 11.90 min Scan# 1143

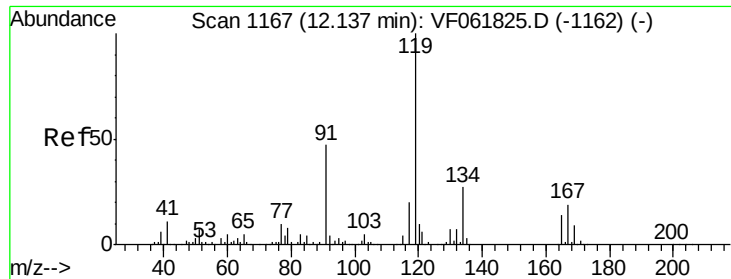
Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion:	91	Resp:	204135
Ion	Ratio	Lower	Upper
91	100		
126	35.1	19.1	57.1





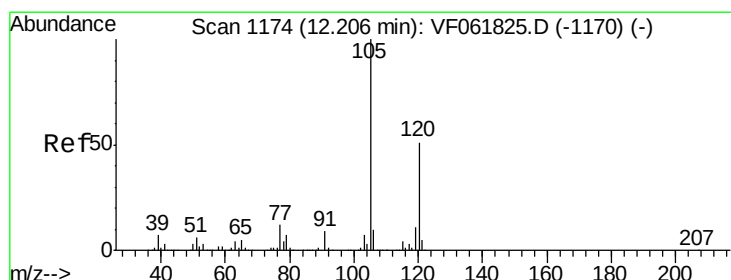
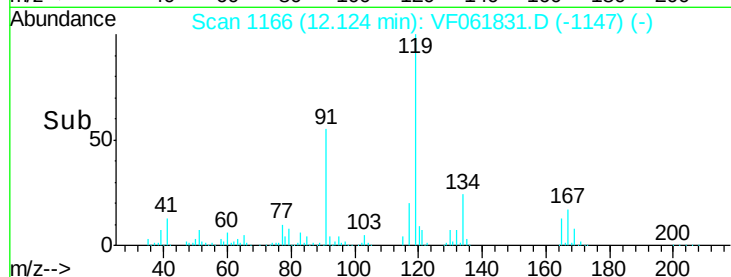
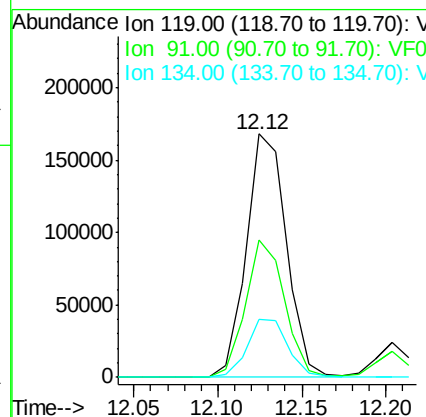
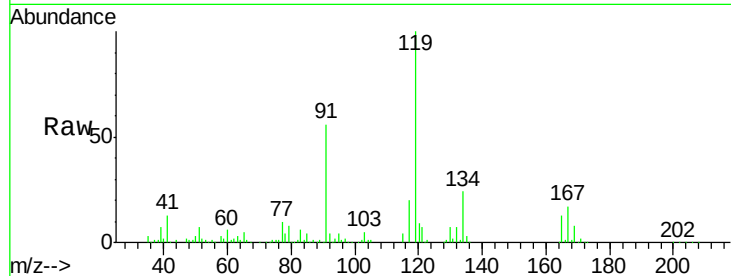
#83
tert-Butylbenzene
Concen: 22.279 ug/l
RT: 12.12 min Scan# 1166
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	278111		
91	56.3	26.3	78.8	
134	24.0	12.9	38.7	

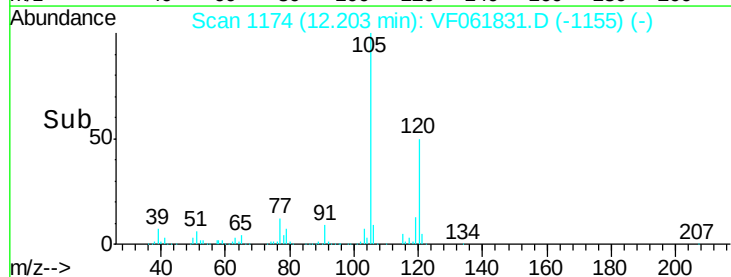
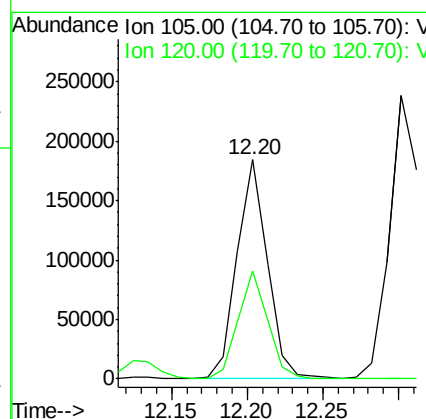
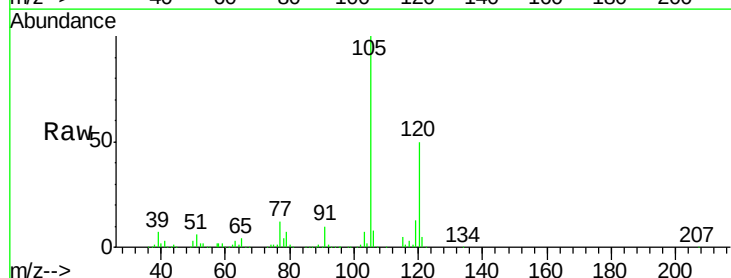
Manual Integrations
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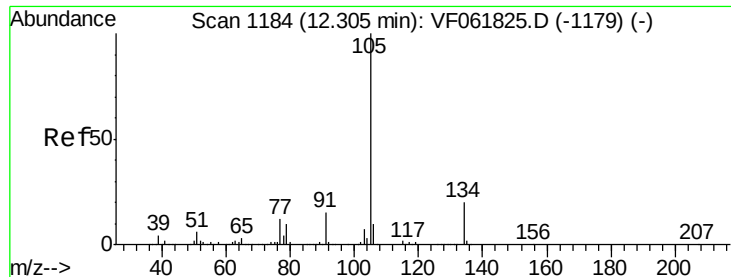
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 22.915 ug/l
RT: 12.20 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	256575		
120	49.5	26.1	78.3	





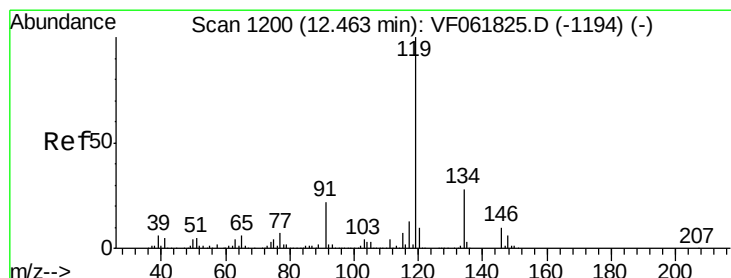
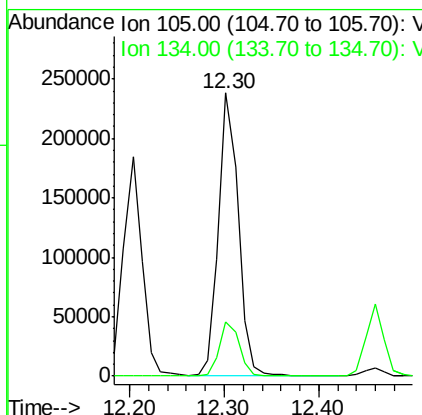
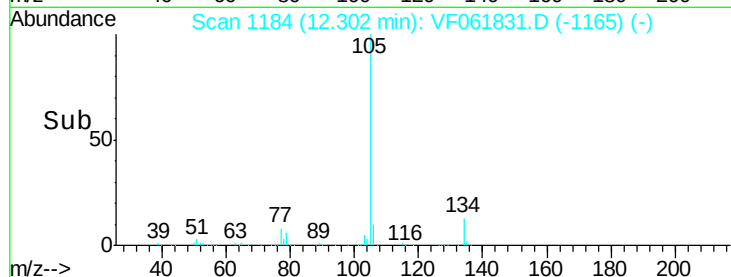
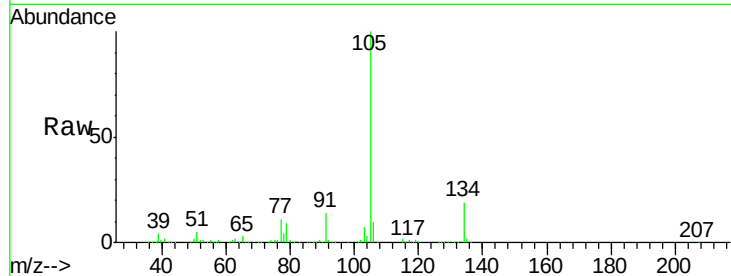
#85
 sec-Butylbenzene
 Concen: 21.409 ug/l
 RT: 12.30 min Scan# 1184
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Instrument :
 MSVOA_F
 ClientSampleID :
 VF0304SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.0	10.8	32.4

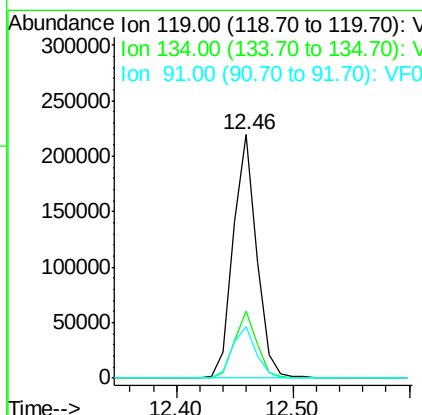
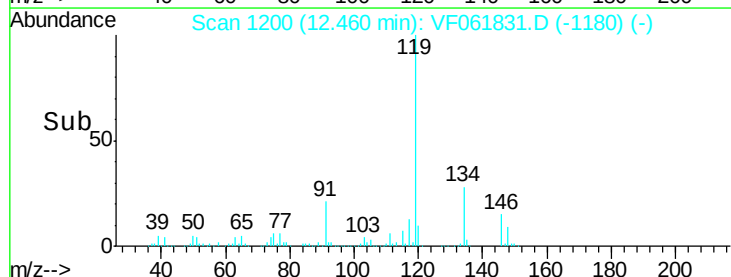
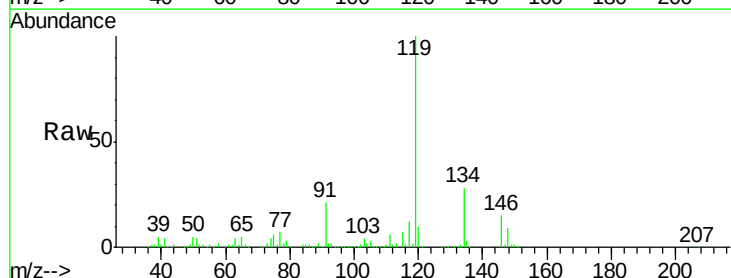
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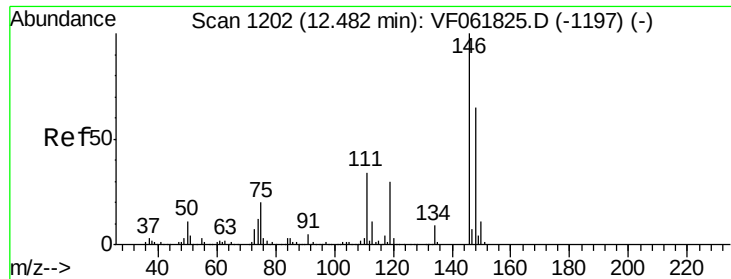
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#86
 p-Isopropyltoluene
 Concen: 22.613 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.00 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.6	13.7	41.1
91	21.4	10.8	32.4





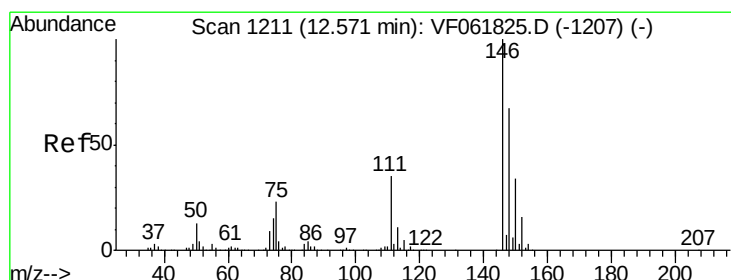
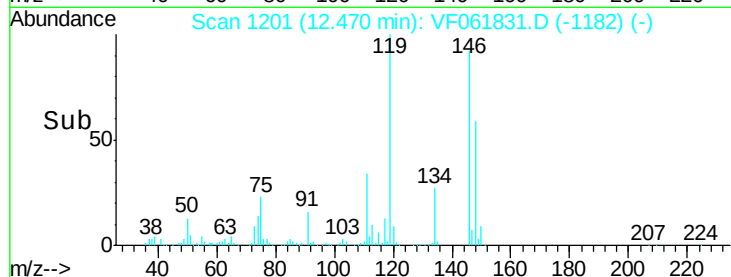
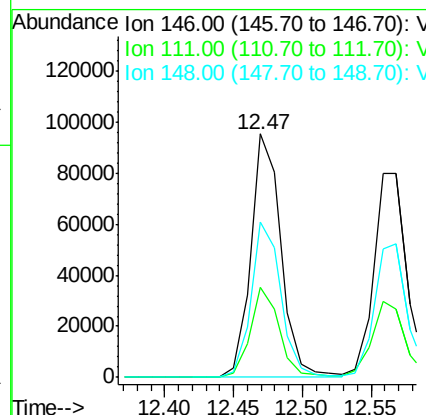
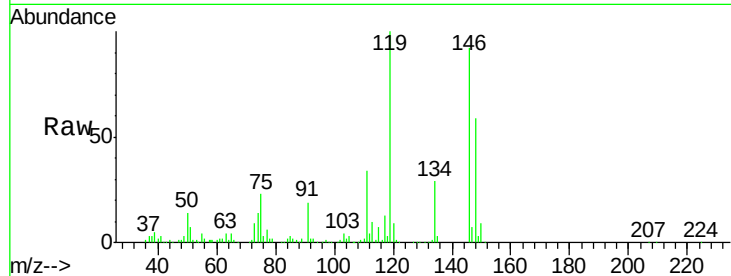
#87
 1,3-Dichlorobenzene
 Concen: 21.513 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	17.5	52.6
148	64.0	31.4	94.3

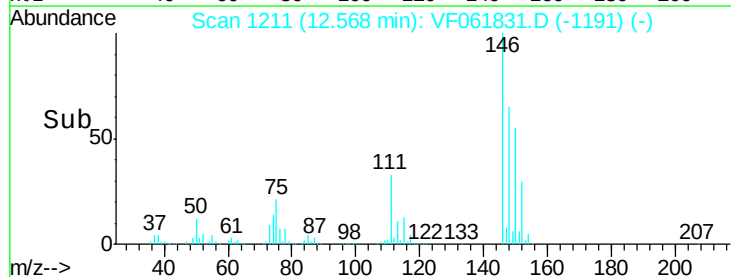
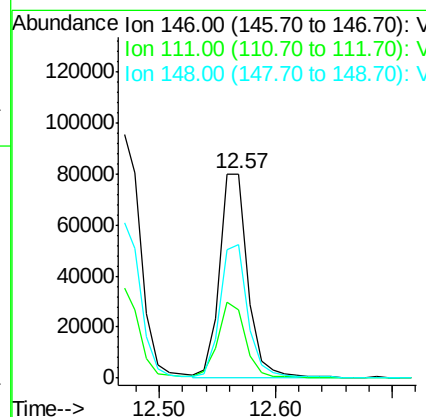
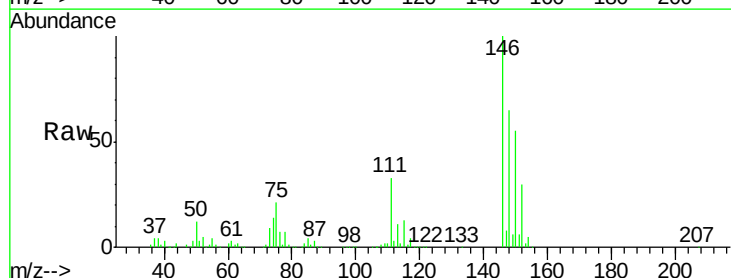
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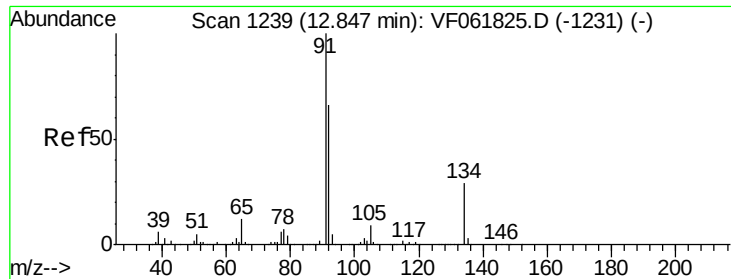
MMDadoda
 3/5/2019 10:48:16 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.677 ug/l
 RT: 12.57 min Scan# 1211
 Delta R.T. -0.00 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.2	18.4	55.4
148	65.2	32.2	96.6





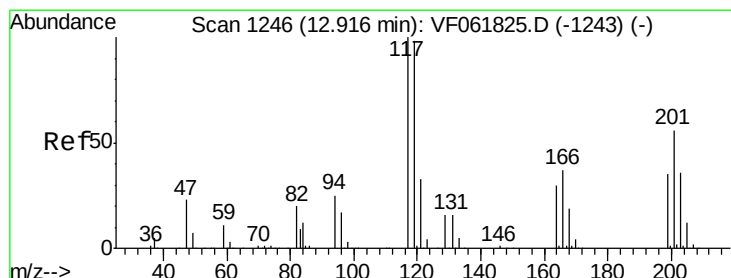
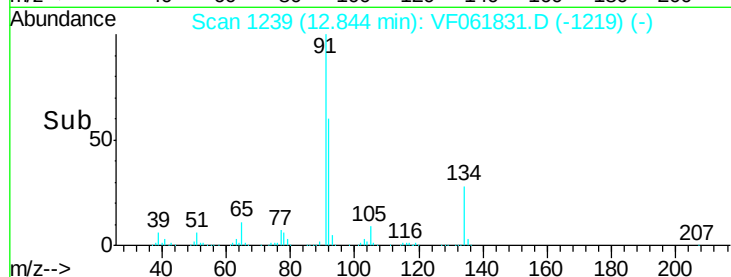
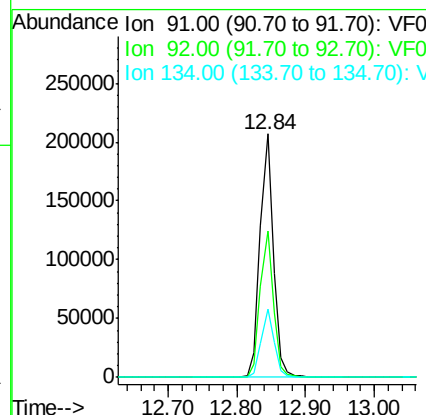
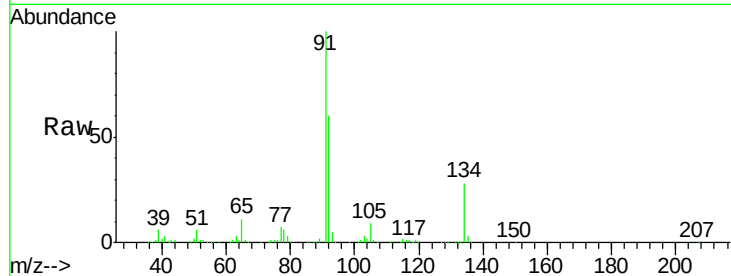
#89
n-Butylbenzene
Concen: 22.016 ug/l
RT: 12.84 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Instrument :
MSVOA_F
ClientSampleId :
VF0304SBS01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	281641		
92	60.2		31.4	94.3
134	27.9		12.3	36.9

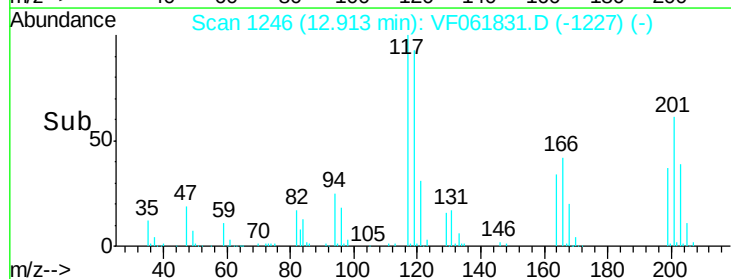
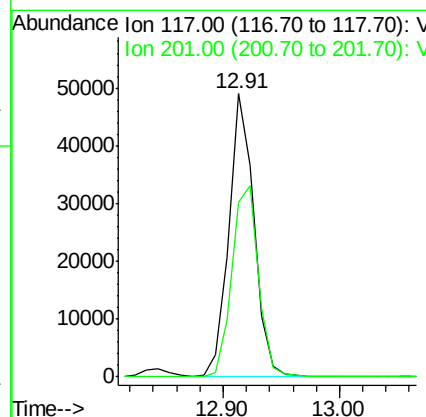
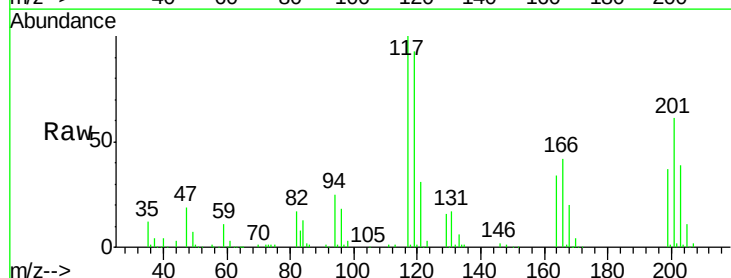
Manual Integrations
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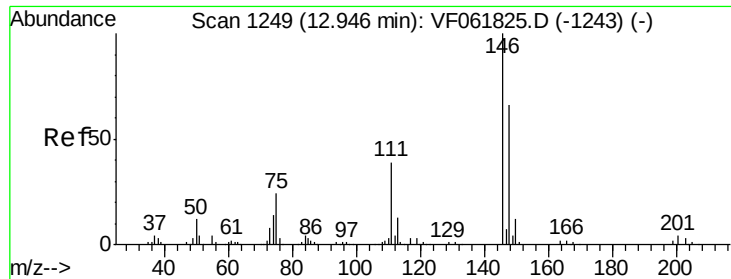
MMDadoda
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#90
Hexachloroethane
Concen: 23.335 ug/l
RT: 12.91 min Scan# 1246
Delta R.T. -0.01 min
Lab File: VF061831.D
Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	73524		
201	61.5		36.2	108.6





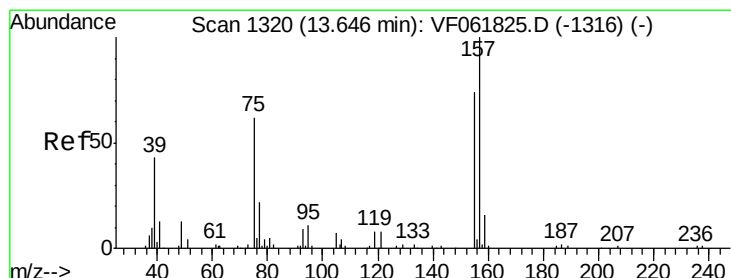
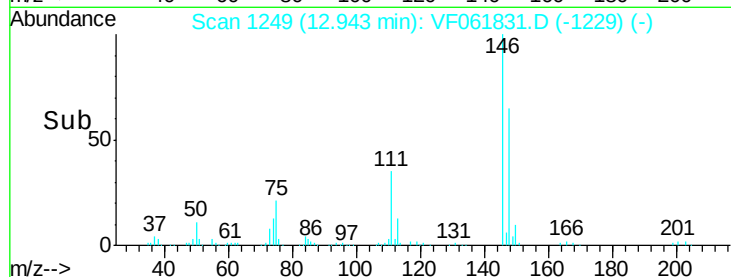
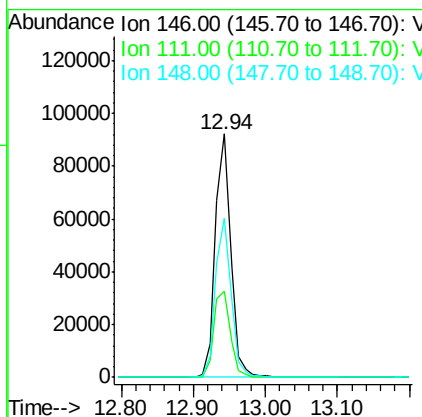
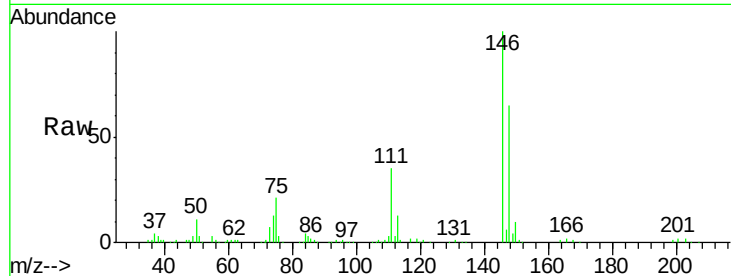
#91
 1,2-Dichlorobenzene
 Concen: 20.948 ug/l
 RT: 12.94 min Scan# 1249
 Delta R.T. -0.00 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	135315		
111	35.2	20.2	60.5	
148	65.2	32.3	96.9	

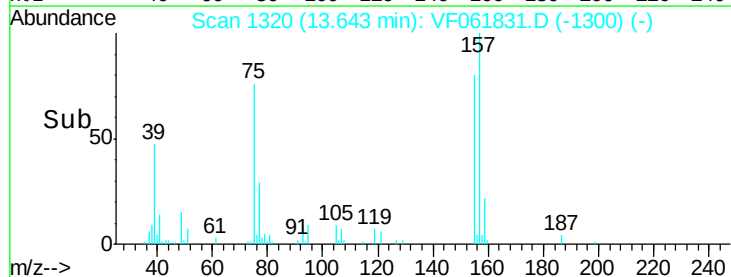
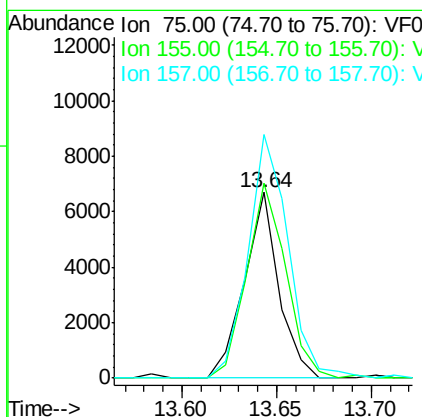
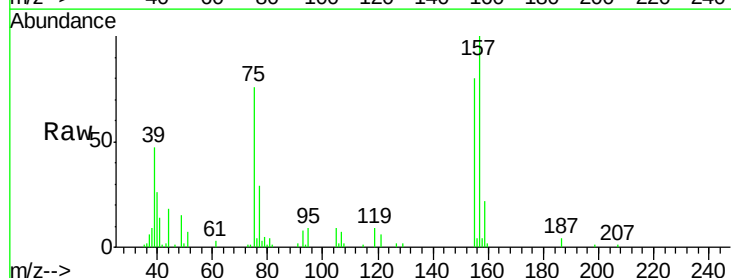
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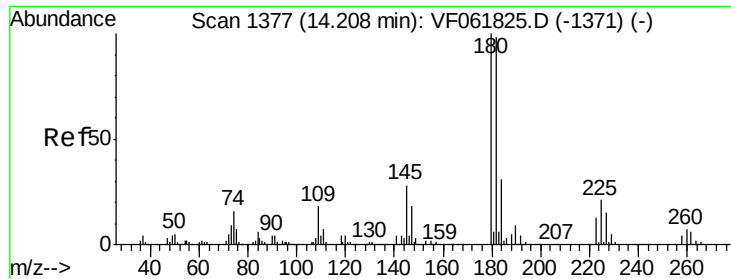
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.017 ug/l
 RT: 13.64 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8418		
155	105.2	48.9	146.8	
157	131.3	58.3	174.8	





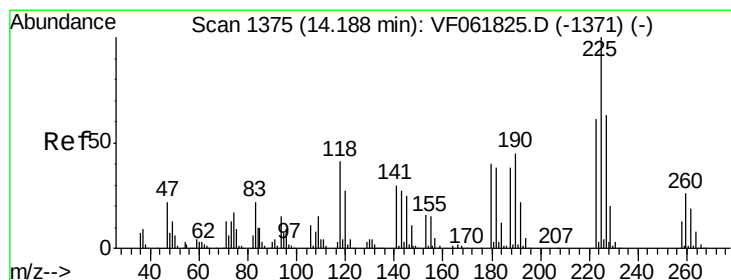
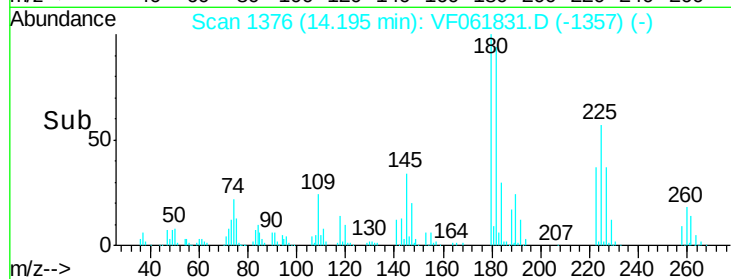
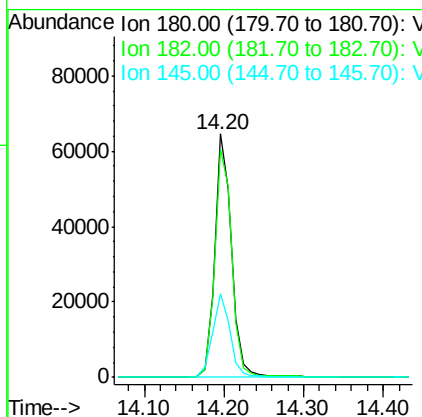
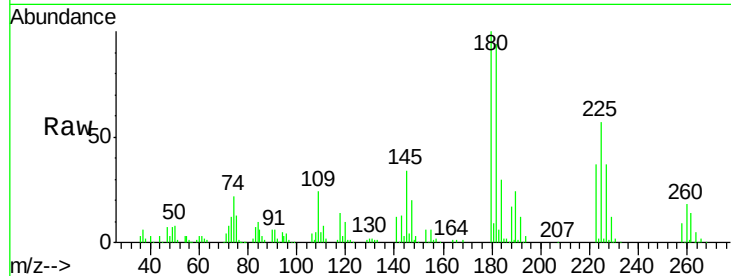
#93
 1,2,4-Trichlorobenzene
 Concen: 20.768 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0304SBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.0	48.6	145.9	
145	34.5	15.3	45.9	

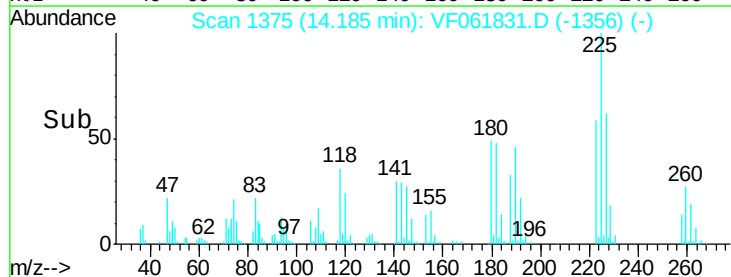
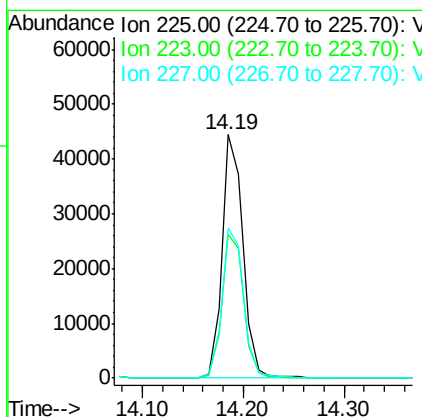
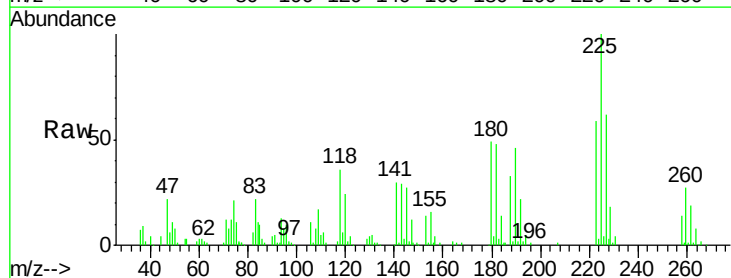
Manual Integrations
 APPROVED

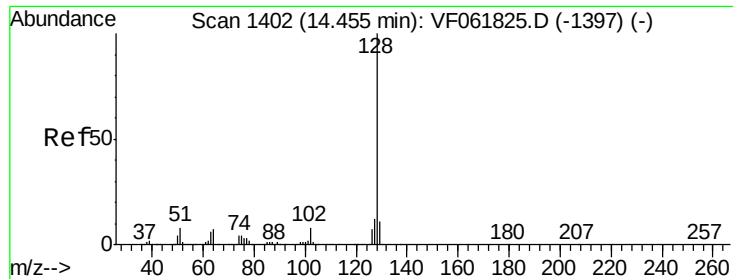
MMDadoda
 3/5/2019 10:48:16 AM



#94
 Hexachlorobutadiene
 Concen: 22.407 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.01 min
 Lab File: VF061831.D
 Acq: 4 Mar 2019 21:19

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	59.2	30.9	92.7	
227	61.7	32.1	96.3	





#95

Naphthalene

Concen: 21.078 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Instrument :

MSVOA_F

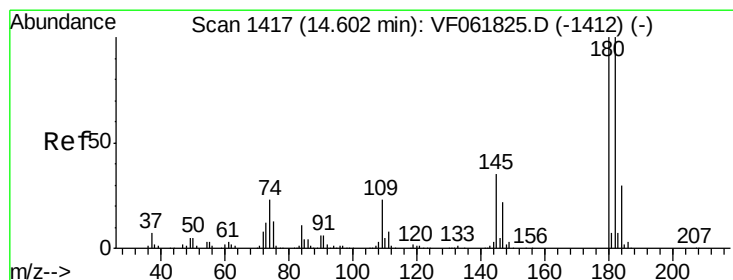
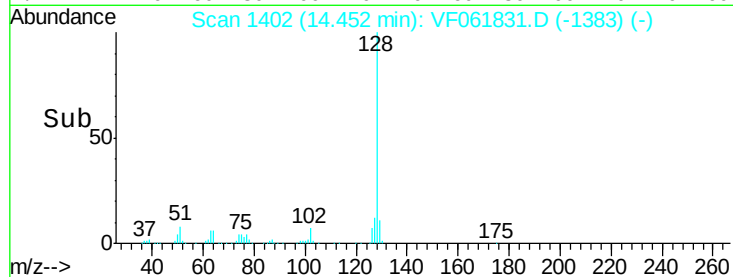
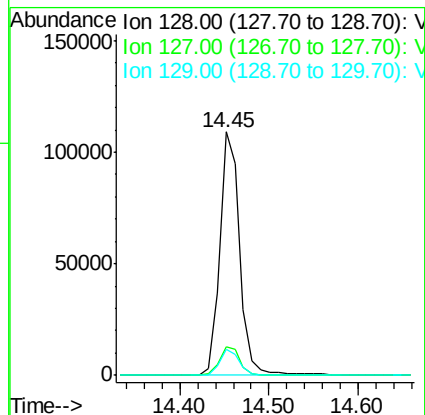
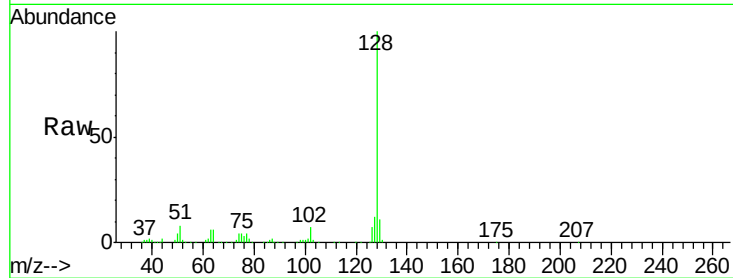
ClientSampleId :

VF0304SBS01

Tot Ion:	128	Resp:	170752
Ion Ratio	Lower	Upper	
128	100		
127	11.5	9.8	14.6
129	10.7	9.4	14.2

Manual Integrations
APPROVED

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3/5/2019 10:48:16 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.873 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF061831.D

Acq: 4 Mar 2019 21:19

Tgt Ion:	180	Resp:	88707
Ion Ratio	Lower	Upper	
180	100		
182	96.4	49.0	147.2
145	30.5	15.4	46.1

