

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041819\
 Data File : VF062198.D
 Acq On : 18 Apr 2019 11:04
 Operator : FY/SY
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 4/19/2019 11:10:55 AM

Quant Time: Apr 19 01:52:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 07:43:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	495131	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.77	114	764779	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	586570	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	306259	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	242782	53.48	ug/l	0.01
Spiked Amount	50.000		Recovery	=	106.96%	
35) Dibromofluoromethane	4.30	113	323481	48.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.70%	
50) Toluene-d8	7.70	98	853701	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
62) 4-Bromofluorobenzene	11.49	95	343653	52.75	ug/l	0.01
Spiked Amount	50.000		Recovery	=	105.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.00	85	360165	47.866	ug/l	98
3) Chloromethane	1.14	50	388140	49.907	ug/l	99
4) Vinyl Chloride	1.18	62	341801	51.154	ug/l	98
5) Bromomethane	1.38	94	202648	52.208	ug/l	94
6) Chloroethane	1.43	64	149283	53.444	ug/l	98
7) Trichlorofluoromethane	1.55	101	430887	50.761	ug/l	91
8) Diethyl Ether	1.71	74	87128	49.317	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.90	101	289079	49.850	ug/l	99
10) Methyl Iodide	1.97	142	521301	50.603	ug/l	92
11) Tert butyl alcohol	2.69	59	70567	223.605	ug/l	95
12) 1,1-Dichloroethene	1.86	96	271841	49.286	ug/l	99
13) Acrolein	2.09	56	43267	313.138	ug/l	98
14) Allyl chloride	2.19	41	351614	55.549	ug/l #	90
15) Acrylonitrile	3.09	53	217039	225.799	ug/l	99
16) Acetone	2.35	43	316908	292.027	ug/l	97
17) Carbon Disulfide	1.91	76	805350	52.547	ug/l	99
18) Methyl Acetate	2.46	43	122566	52.751	ug/l	97
19) Methyl tert-butyl Ether	2.54	73	483721	49.672	ug/l	97
20) Methylene Chloride	2.33	84	258714m	48.332	ug/l	
21) trans-1,2-Dichloroethene	2.42	96	270425	49.579	ug/l	98
22) Diisopropyl ether	2.93	45	796386	49.185	ug/l	99
23) Vinyl Acetate	3.34	43	1866390	241.934	ug/l	99
24) 1,1-Dichloroethane	3.01	63	454200	51.279	ug/l	97
25) 2-Butanone	4.52	43	555889	256.181	ug/l	100
26) 2,2-Dichloropropane	3.77	77	218214	48.797	ug/l	96
27) cis-1,2-Dichloroethene	3.64	96	342798	48.532	ug/l	97
28) Bromochloromethane	3.89	49	206052	48.563	ug/l #	96
29) Tetrahydrofuran	4.26	42	227685	231.817	ug/l	97
30) Chloroform	4.04	83	531350	48.813	ug/l	100
31) Cyclohexane	3.88	56	508907	47.944	ug/l	100
32) 1,1,1-Trichloroethane	4.28	97	400144	50.219	ug/l #	90
36) 1,1-Dichloropropene	4.47	75	413609	45.108	ug/l	99
37) Ethyl Acetate	4.30	43	187494	43.333	ug/l #	100
38) Carbon Tetrachloride	4.18	117	398423m	49.091	ug/l	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.63	83	545337	49.673	ug/l	97
40) Benzene	4.81	78	1106944	46.026	ug/l	99
41) Methacrylonitrile	4.93	41	109686	43.948	ug/l	96
42) 1,2-Dichloroethane	5.13	62	295738	46.513	ug/l	99
43) Isopropyl Acetate	7.11	43	216477	47.570	ug/l	100
44) Trichloroethene	5.68	130	315860	48.602	ug/l	98
45) 1,2-Dichloropropane	6.40	63	257069	48.524	ug/l	98
46) Dibromomethane	6.25	93	164186	46.582	ug/l	96
47) Bromodichloromethane	6.55	83	378825	47.627	ug/l	96
48) Methyl methacrylate	6.87	41	142374	47.606	ug/l	97
49) 1,4-Dioxane	6.86	88	31363	914.416	ug/l	93
51) 4-Methyl-2-Pentanone	8.40	43	791166	233.743	ug/l	98
52) Toluene	7.77	92	603715	47.620	ug/l	100
53) t-1,3-Dichloropropene	8.42	75	290532	48.632	ug/l	94
54) cis-1,3-Dichloropropene	7.45	75	391505	48.448	ug/l	97
55) 1,1,2-Trichloroethane	8.63	97	168444	47.429	ug/l	99
56) Ethyl methacrylate	8.75	69	194109	48.072	ug/l	96
57) 1,3-Dichloropropane	8.99	76	280778	48.959	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.44	63	289502	246.943	ug/l	100
59) 2-Hexanone	9.61	43	550535	260.820	ug/l	96
60) Dibromochloromethane	8.85	129	259167	49.068	ug/l	97
61) 1,2-Dibromoethane	9.13	107	190661	47.651	ug/l	98
64) Tetrachloroethene	8.30	164	260288	49.157	ug/l	98
65) Chlorobenzene	9.93	112	632149	50.542	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.06	131	272102	46.456	ug/l	99
67) Ethyl Benzene	10.03	91	1114607	49.008	ug/l	99
68) m/p-Xylenes	10.25	106	816662	97.543	ug/l	94
69) o-Xylene	10.81	106	454057	48.847	ug/l	99
70) Styrene	10.88	104	655996	50.008	ug/l	99
71) Bromoform	10.87	173	150467	48.656	ug/l #	100
73) Isopropylbenzene	11.21	105	1300471	49.433	ug/l	99
74) N-amyl acetate	11.45	43	336719	54.126	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.76	83	222848	49.256	ug/l	98
76) 1,2,3-Trichloropropane	11.86	75	150087	48.217	ug/l #	64
77) Bromobenzene	11.57	156	289765	51.416	ug/l	98
78) n-propylbenzene	11.66	91	1358777	48.961	ug/l	99
79) 2-Chlorotoluene	11.79	91	842390	50.039	ug/l	97
80) 1,3,5-Trimethylbenzene	11.89	105	1057881	48.280	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.94	75	75315m	47.443	ug/l	
82) 4-Chlorotoluene	11.97	91	829066	50.959	ug/l	98
83) tert-Butylbenzene	12.19	119	1087490	47.994	ug/l	99
84) 1,2,4-Trimethylbenzene	12.26	105	1028980	48.529	ug/l	99
85) sec-Butylbenzene	12.36	105	1414499	48.084	ug/l	99
86) p-Isopropyltoluene	12.51	119	1203981	48.248	ug/l	99
87) 1,3-Dichlorobenzene	12.53	146	507758	48.552	ug/l	99
88) 1,4-Dichlorobenzene	12.62	146	500926	49.659	ug/l	99
89) n-Butylbenzene	12.89	91	1112090	54.675	ug/l	97
90) Hexachloroethane	12.97	117	314578	49.092	ug/l	96
91) 1,2-Dichlorobenzene	12.99	146	488859	48.411	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.68	75	39579	44.525	ug/l	87

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QLast Update : Thu Apr 18 07:43:02 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.24	180	402800	47.674	ug/l	99
94) Hexachlorobutadiene	14.23	225	285044	49.201	ug/l	99
95) Naphthalene	14.49	128	718174	48.613	ug/l	100
96) 1,2,3-Trichlorobenzene	14.63	180	389545	48.025	ug/l	99

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

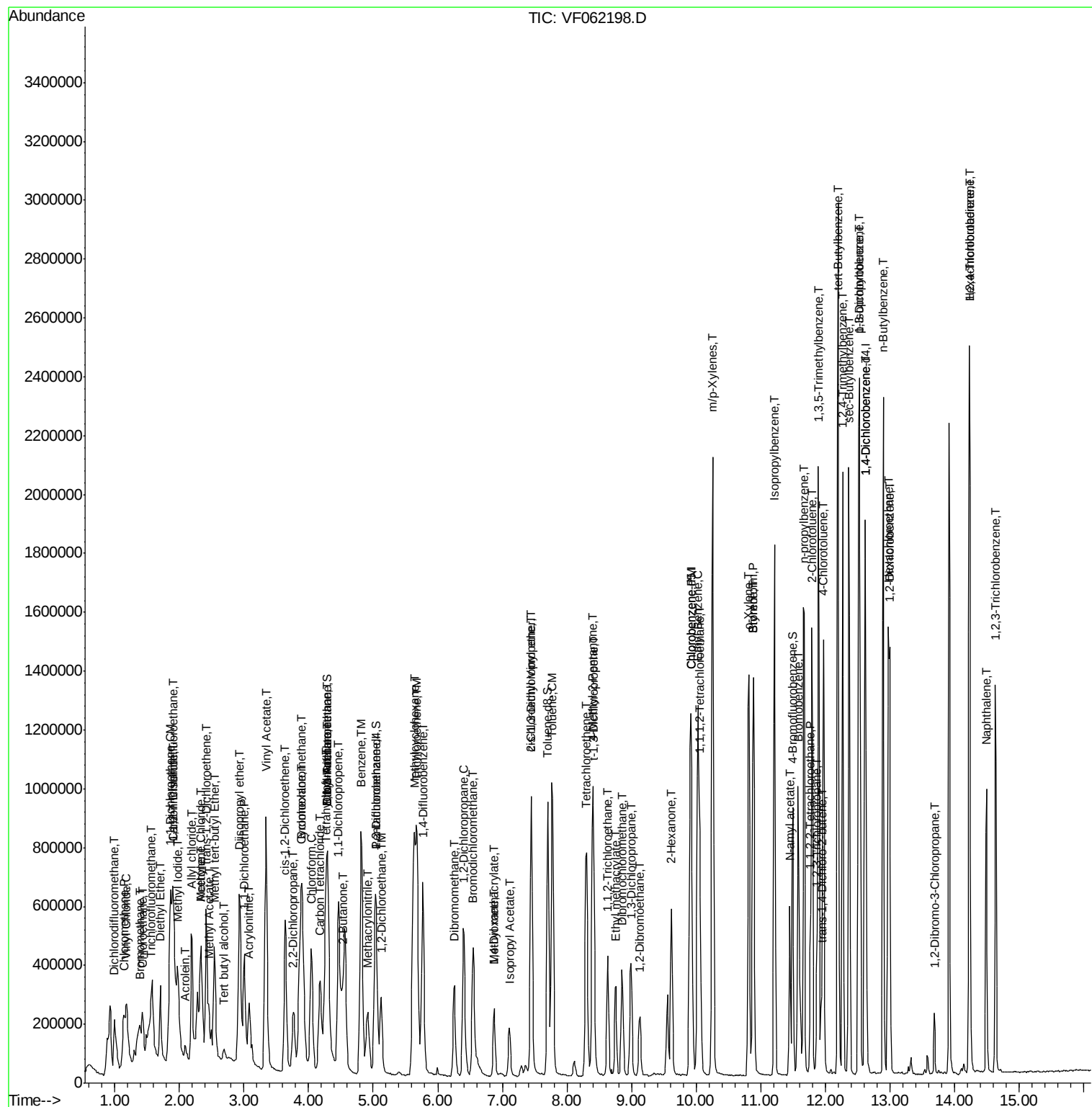
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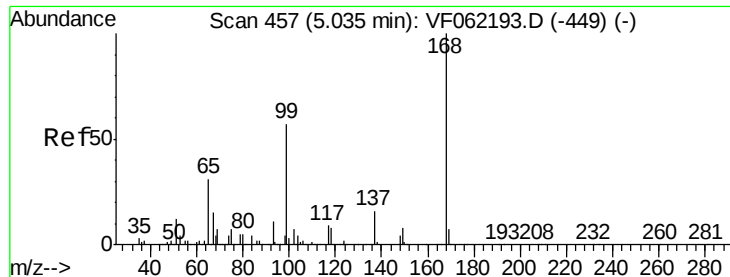
Instrument :
 MSVOA_F
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 458

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 495131

Ion Ratio Lower Upper

168 100

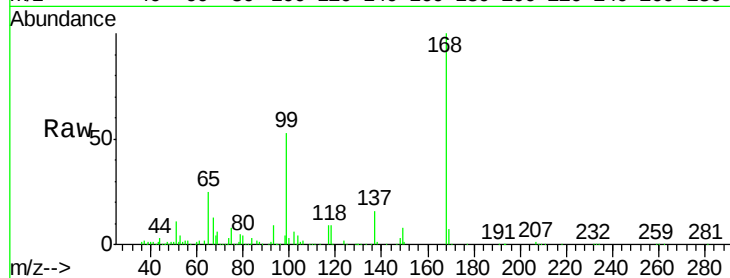
99 52.9 45.5 68.3

Manual Integrations

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4/19/2019 11:10:55 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.05

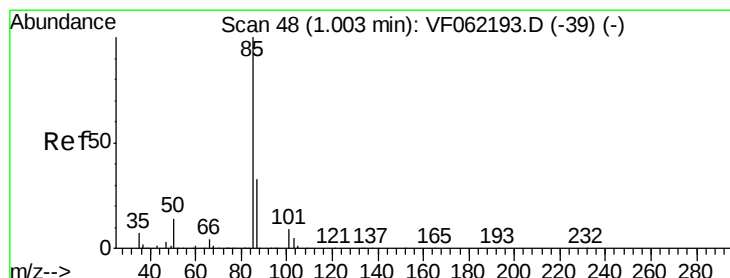
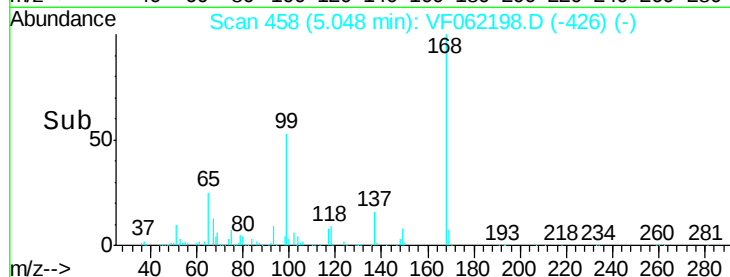
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 47.866 ug/l

RT: 1.00 min Scan# 47

Delta R.T. -0.01 min

Lab File: VF062198.D

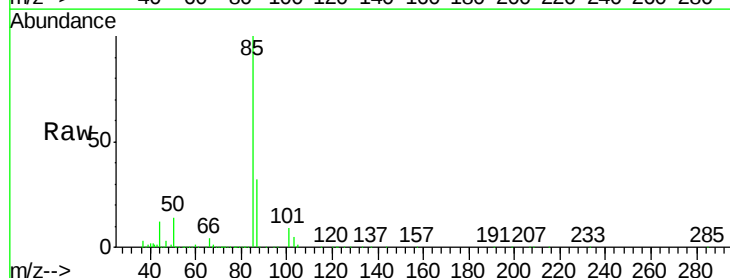
Acq: 18 Apr 2019 11:04

Tgt Ion: 85 Resp: 360165

Ion Ratio Lower Upper

85 100

87 31.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VF0

Ion 86.90 (86.60 to 87.60): VF0

1.00

120000

100000

80000

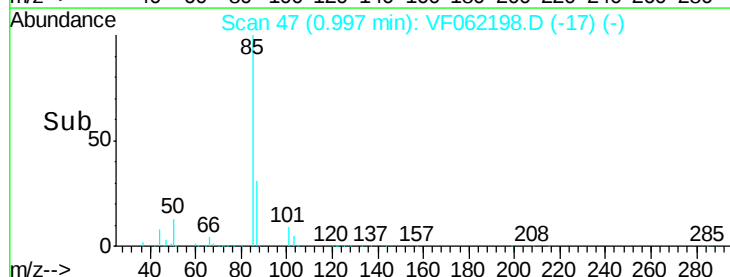
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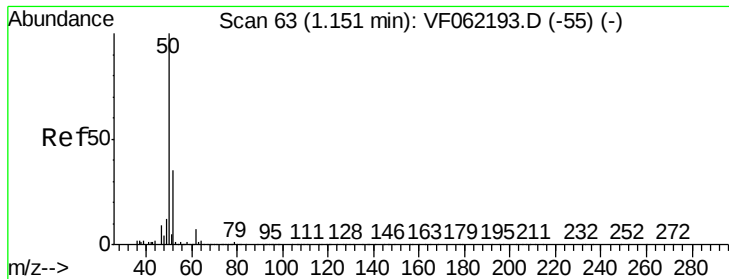
40000

20000

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Time-->





#3

Chloromethane

Concen: 49.907 ug/l

RT: 1.14 min Scan# 62

Delta R.T. -0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 388140

Ion Ratio Lower Upper

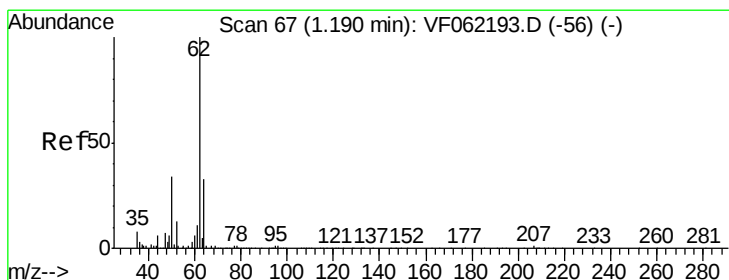
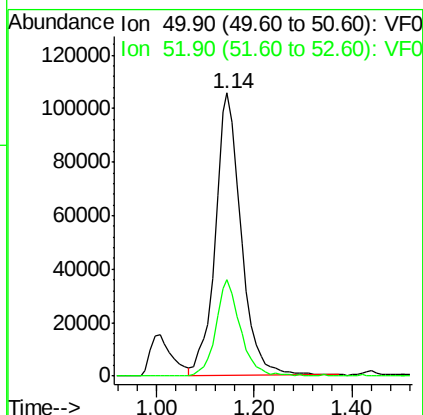
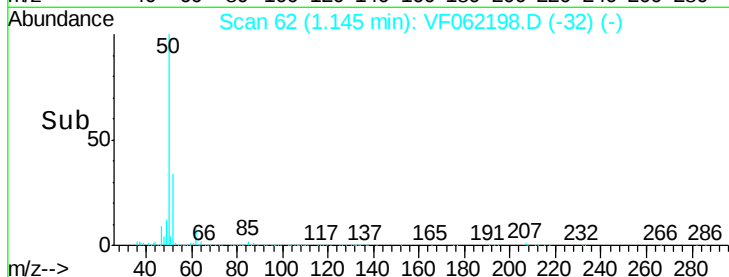
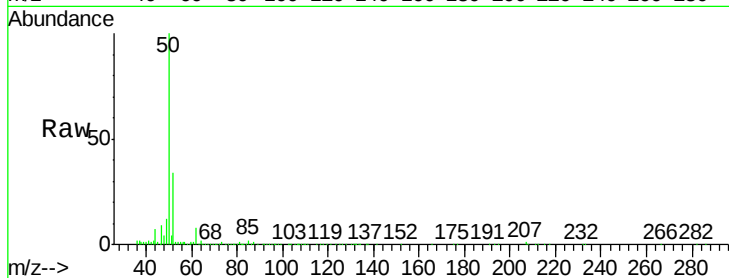
50 100

52 34.2 27.0 40.4

Manual Integrations
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#4

Vinyl Chloride

Concen: 51.154 ug/l

RT: 1.18 min Scan# 66

Delta R.T. -0.01 min

Lab File: VF062198.D

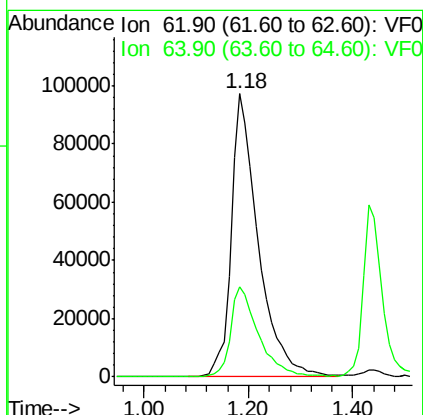
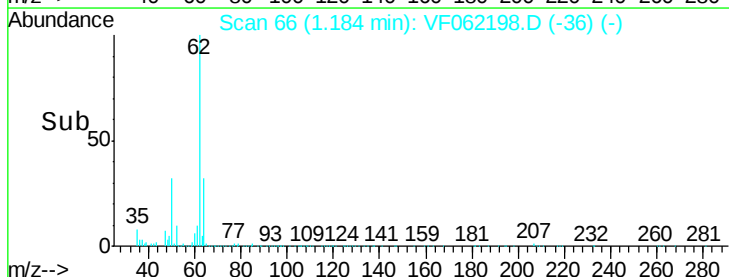
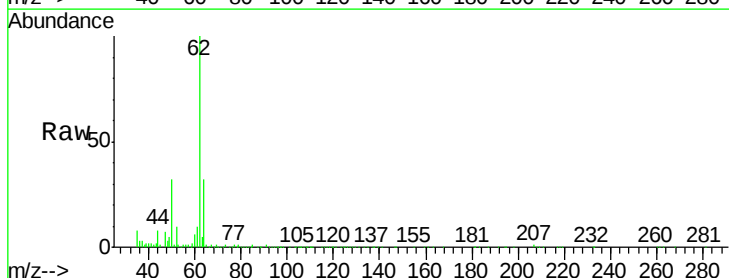
Acq: 18 Apr 2019 11:04

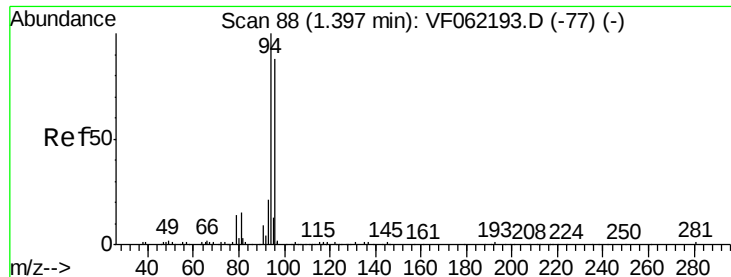
Tgt Ion: 62 Resp: 341801

Ion Ratio Lower Upper

62 100

64 31.5 26.2 39.4





#5

Bromomethane

Concen: 52.208 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.02 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

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ClientSampleId :

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Tot Ion: 94 Resp: 202648

Ion Ratio Lower Upper

94 100

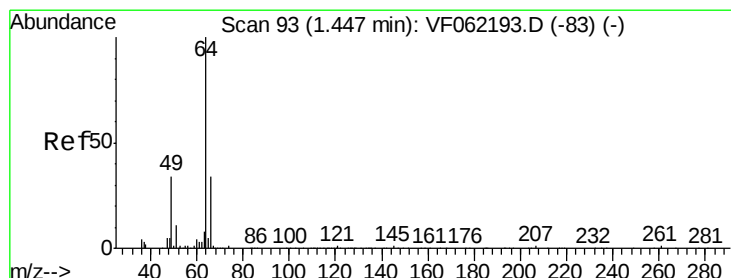
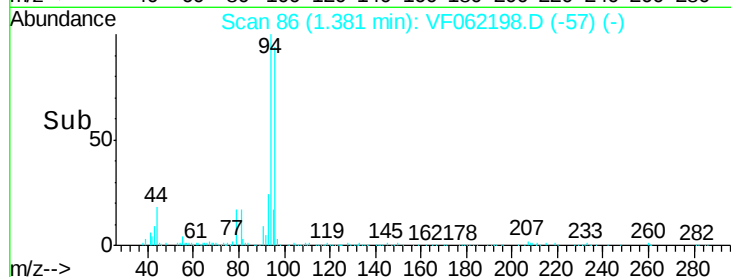
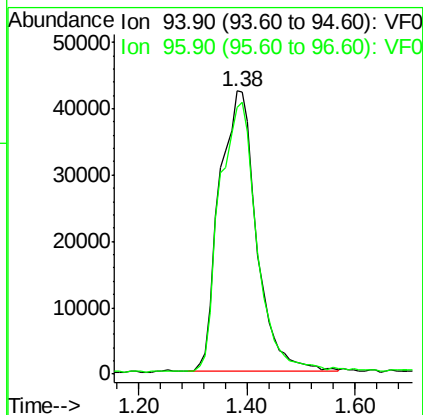
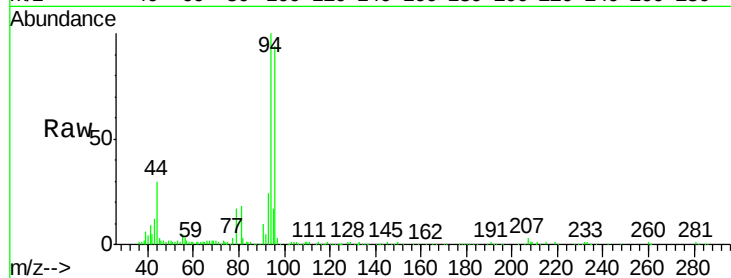
96 93.7 70.2 105.4

Manual Integrations

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#6

Chloroethane

Concen: 53.444 ug/l

RT: 1.43 min Scan# 91

Delta R.T. -0.02 min

Lab File: VF062198.D

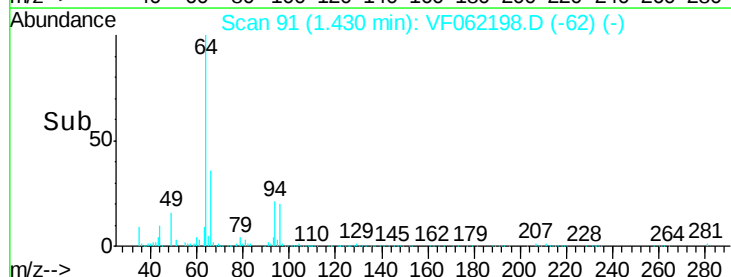
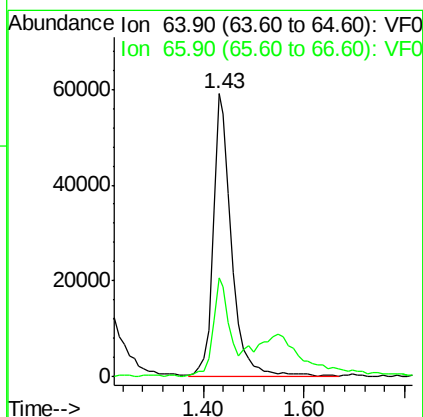
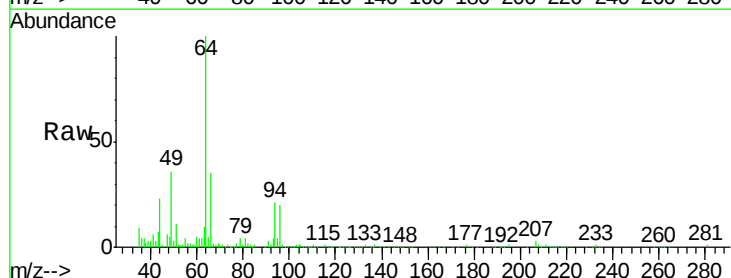
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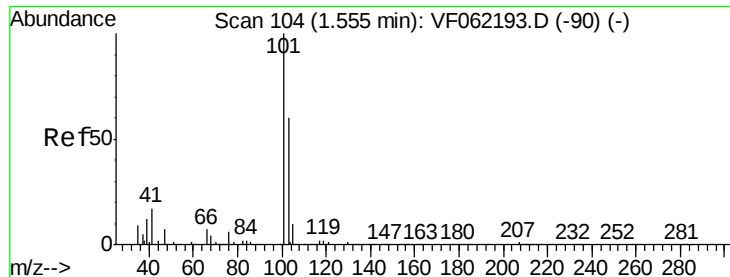
Tgt Ion: 64 Resp: 149283

Ion Ratio Lower Upper

64 100

66 34.7 27.0 40.4





#7

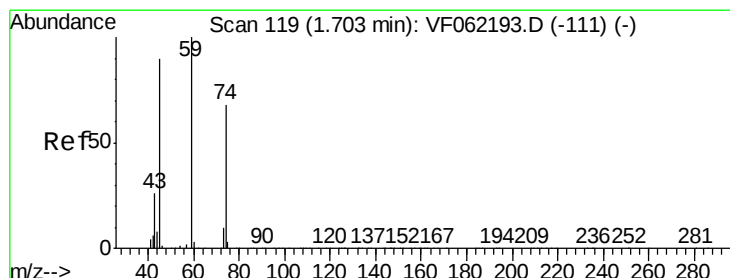
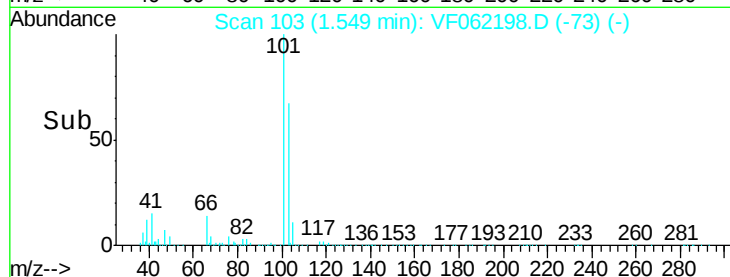
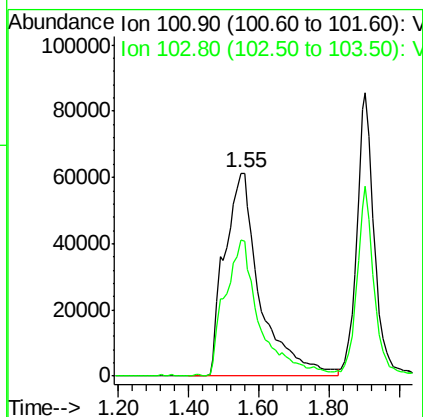
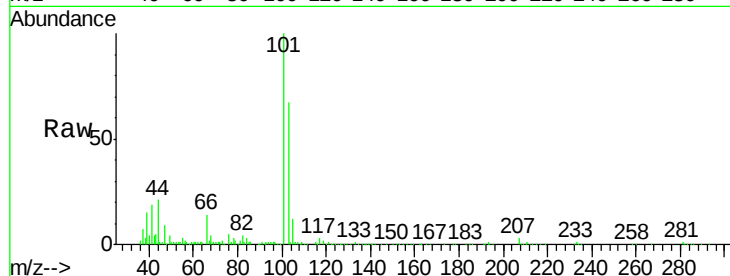
Trichlorofluoromethane
Concen: 50.761 ug/l
RT: 1.55 min Scan# 103
Delta R.T. -0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

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Tot Ion	Ratio	Lower	Upper
101	100		
103	67.2	48.2	72.4

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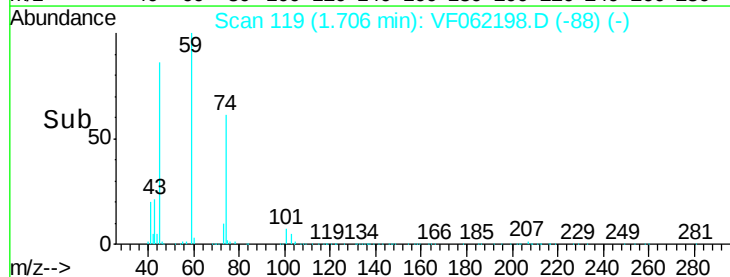
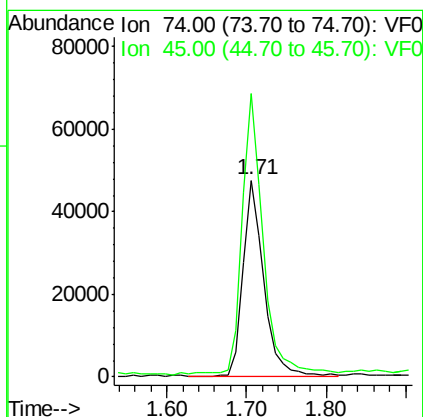
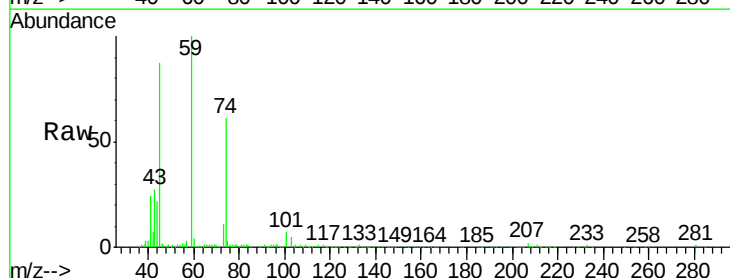
MMDadoda
4/19/2019 11:10:55 AM

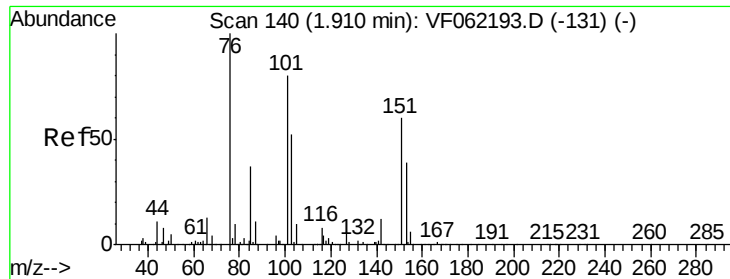


#8

Diethyl Ether
Concen: 49.317 ug/l
RT: 1.71 min Scan# 119
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
74	100		
45	143.2	70.0	210.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.850 ug/l

RT: 1.90 min Scan# 139

Delta R.T. -0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

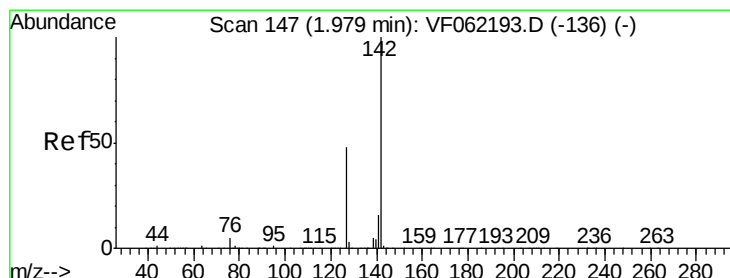
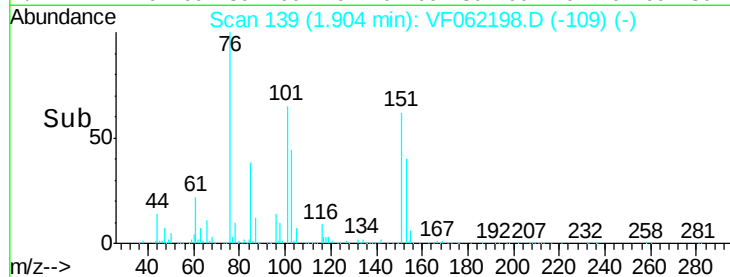
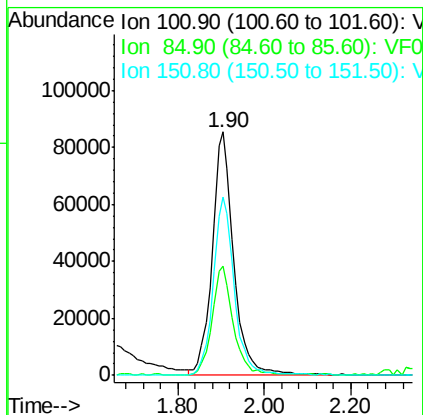
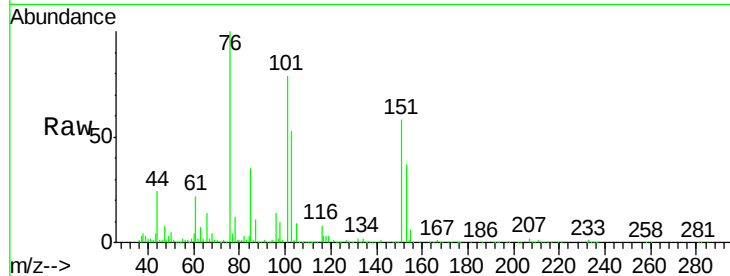
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	289079
Ion Ratio	Lower	Upper	
101	100		
85	43.9	35.3	52.9
151	72.6	57.5	86.3

Manual Integrations
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MMDadoda
4/19/2019 11:10:55 AM



#10

Methyl Iodide

Concen: 50.603 ug/l

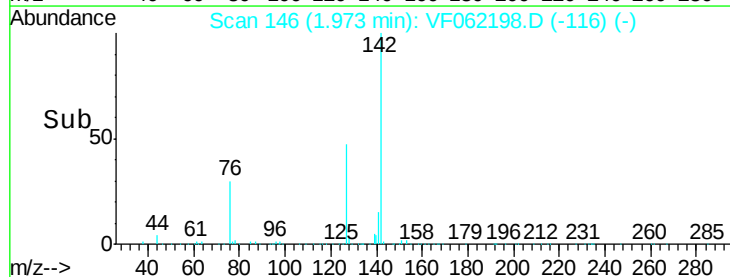
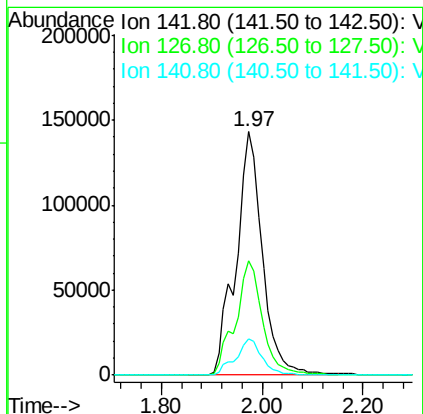
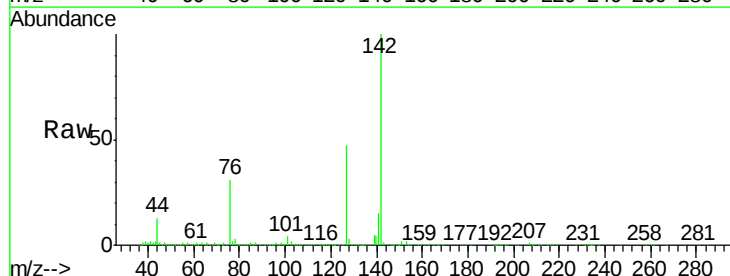
RT: 1.97 min Scan# 146

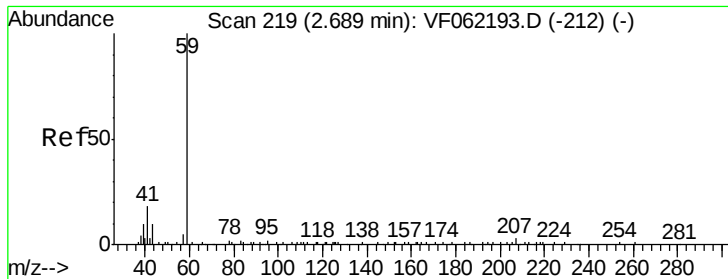
Delta R.T. -0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion:	142	Resp:	521301
Ion Ratio	Lower	Upper	
142	100		
127	47.9	33.0	49.4
141	14.8	12.7	19.1





#11

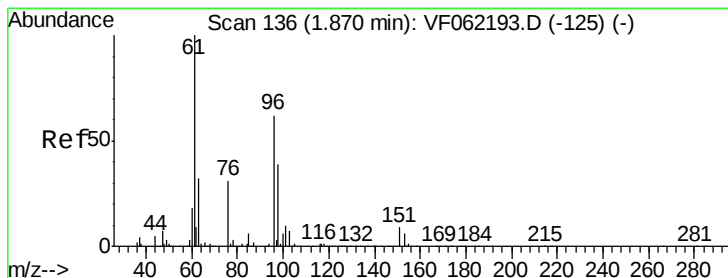
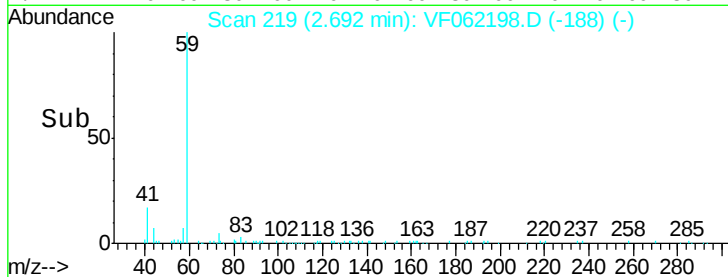
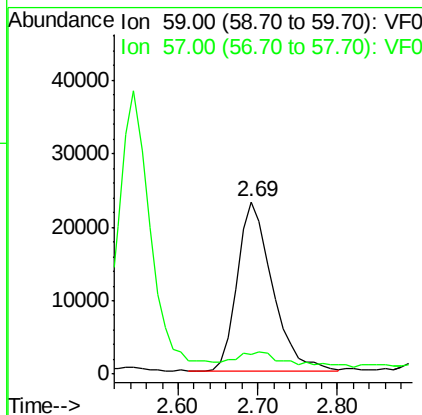
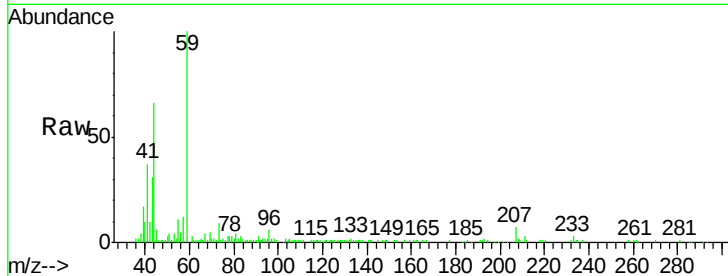
Tert butyl alcohol
Concen: 223.605 ug/l
RT: 2.69 min Scan# 219
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.5	9.3	13.9

Manual Integrations
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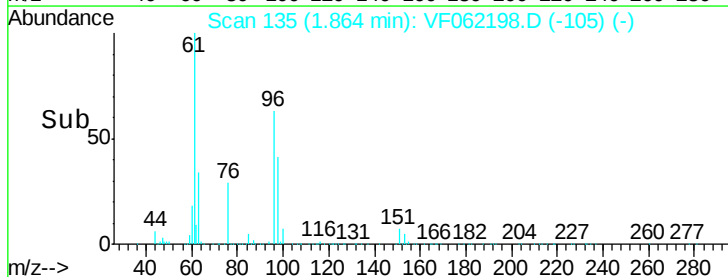
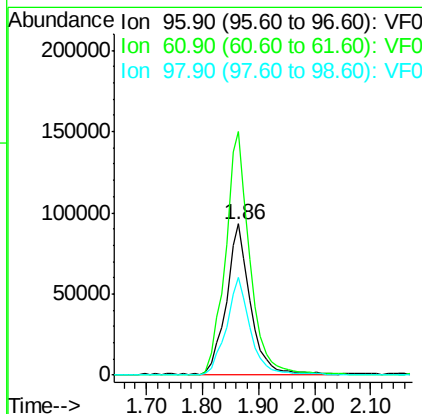
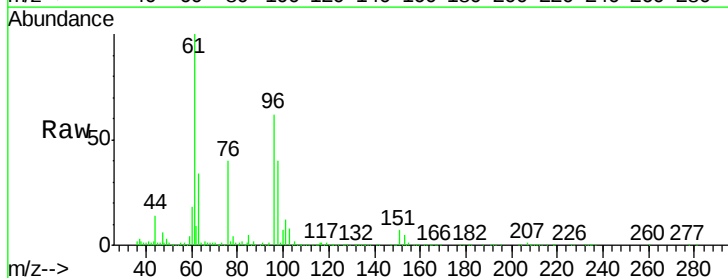
MMDadoda
4/19/2019 11:10:55 AM

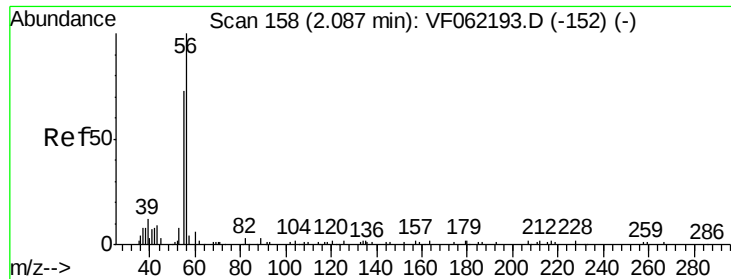


#12

1,1-Dichloroethene
Concen: 49.286 ug/l
RT: 1.86 min Scan# 135
Delta R.T. -0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.0	129.1	193.7
98	65.1	50.0	75.0





#13

Acrolein

Concen: 313.138 ug/l

RT: 2.09 min Scan# 158

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 43267

Ion Ratio Lower Upper

56 100

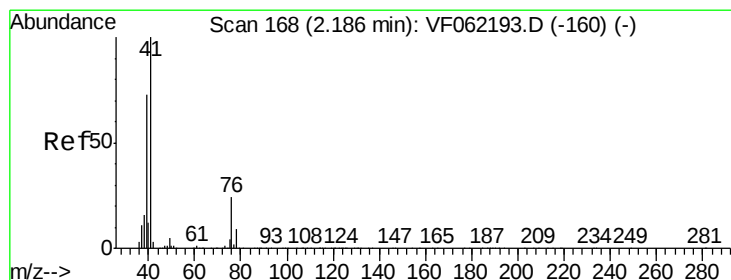
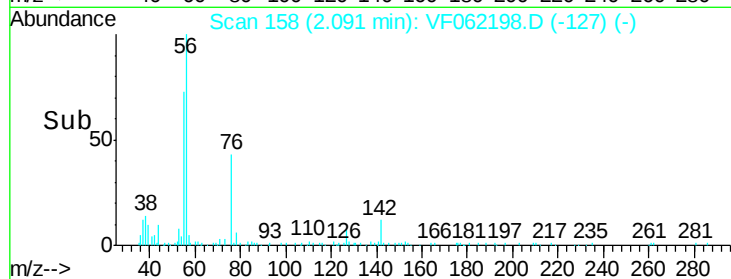
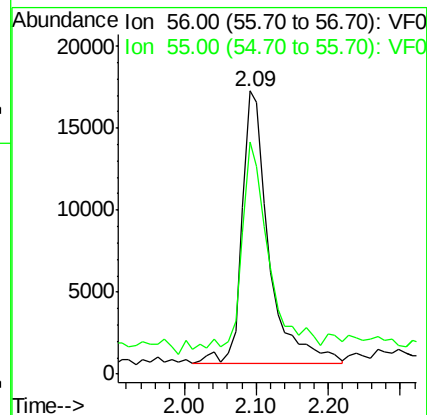
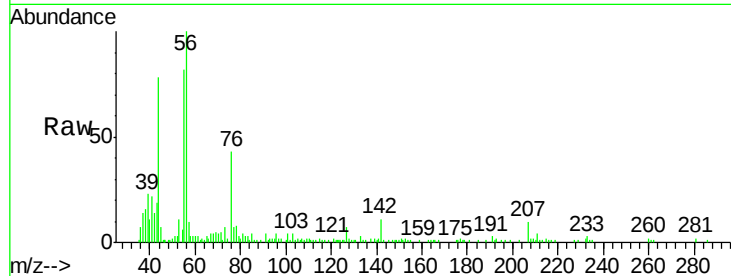
55 73.5 57.4 86.0

Manual Integrations

APPROVED

MMDadoda

4/19/2019 11:10:55 AM



#14

Allyl chloride

Concen: 55.549 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

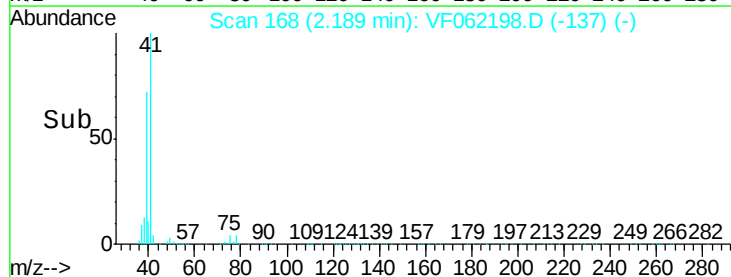
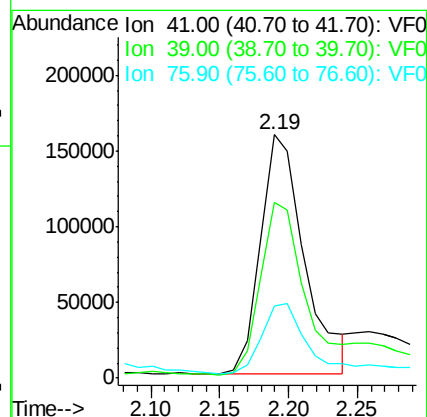
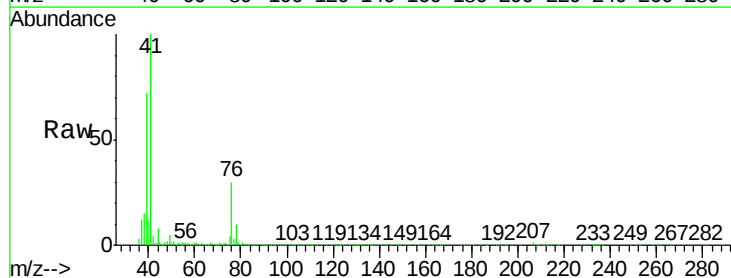
Tgt Ion: 41 Resp: 351614

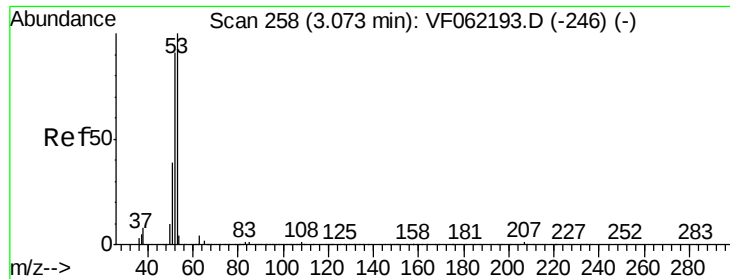
Ion Ratio Lower Upper

41 100

39 73.0 60.0 90.0

76 41.7 20.6 30.8#





#15

Acrylonitrile

Concen: 225.799 ug/l

RT: 3.09 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

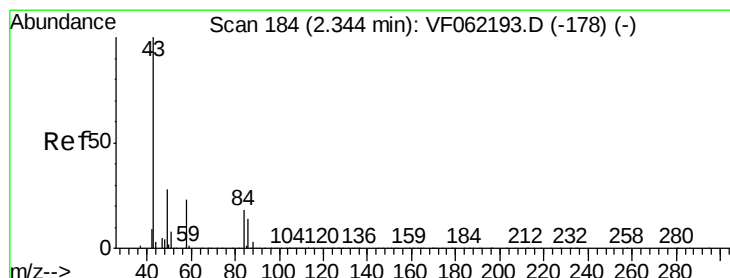
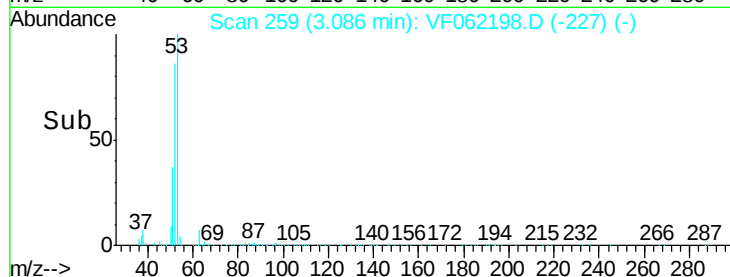
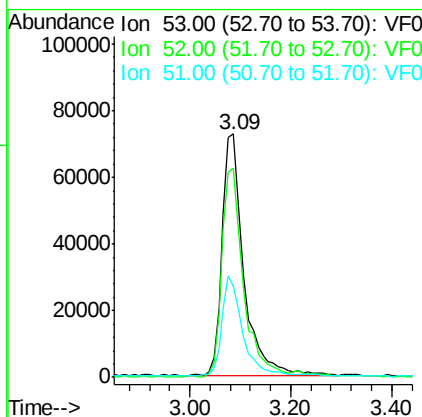
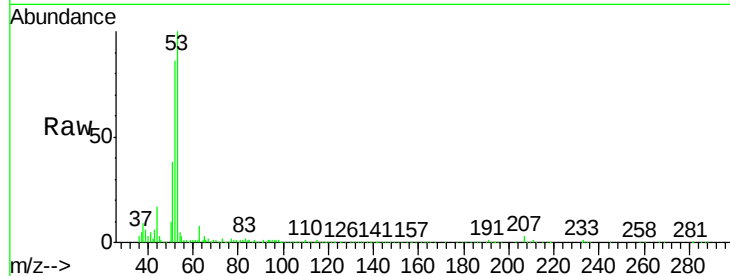
ClientSampleId :

VSTDCCC050

Tot Ion:	53	Resp:	217039
Ion Ratio	Lower	Upper	
53	100		
52	85.5	69.5	104.3
51	39.4	31.8	47.8

Manual Integrations
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4/19/2019 11:10:55 AM



#16

Acetone

Concen: 292.027 ug/l

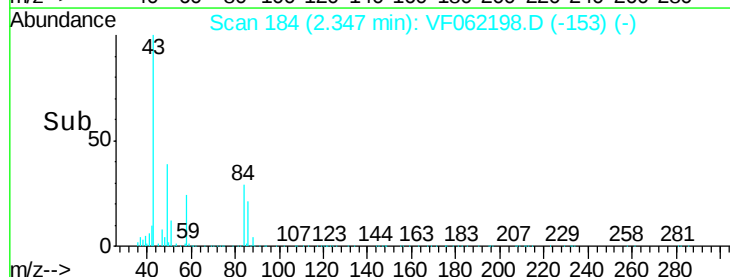
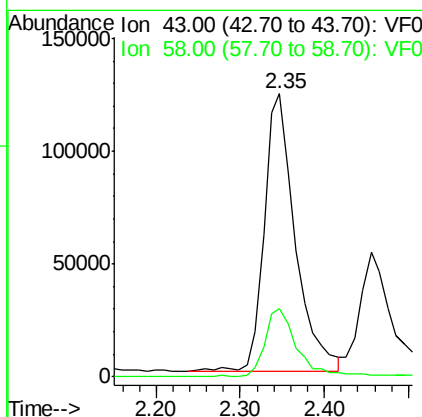
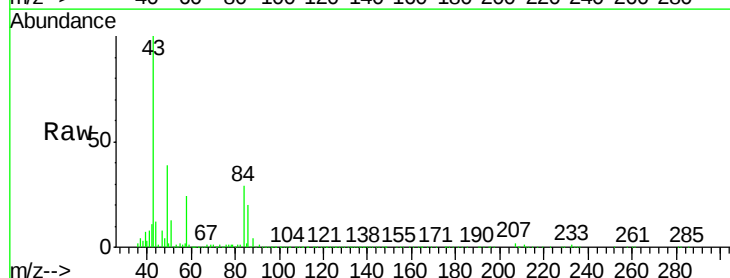
RT: 2.35 min Scan# 184

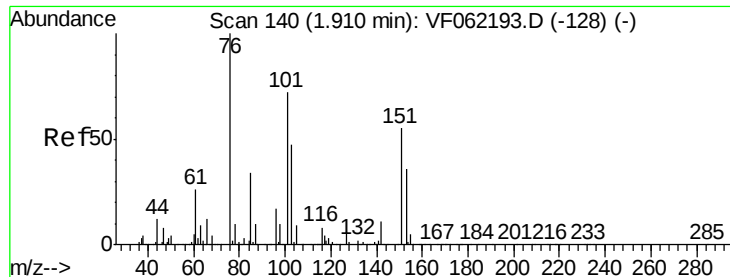
Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion:	43	Resp:	316908
Ion Ratio	Lower	Upper	
43	100		
58	24.8	18.8	28.2





#17

Carbon Disulfide

Concen: 52.547 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 805350

Ion Ratio Lower Upper

76 100

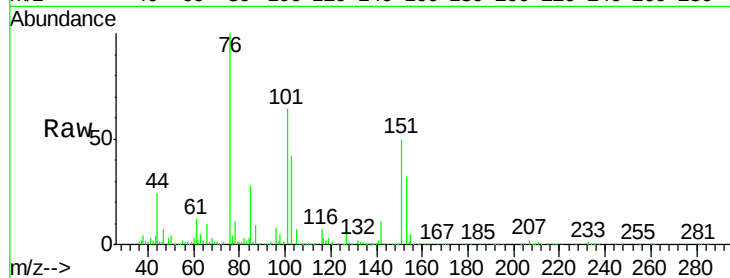
78 10.4 8.7 13.1

Manual Integrations

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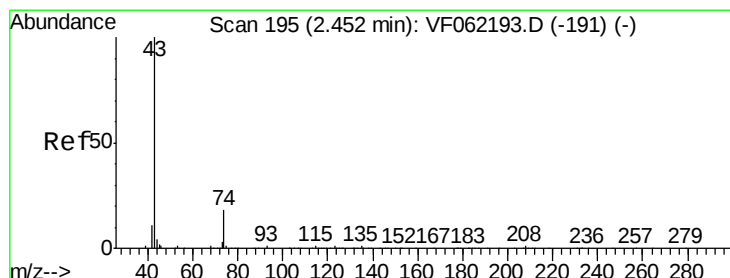
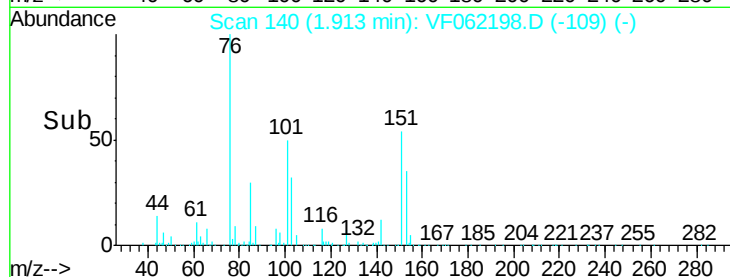
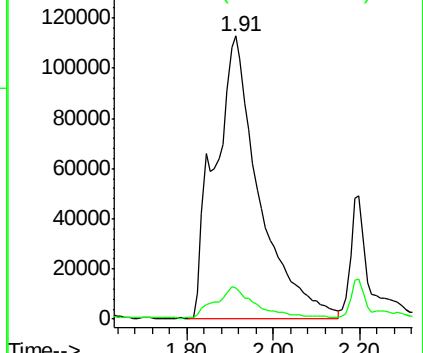
MMDadoda

4/19/2019 11:10:55 AM



Abundance Ion 75.90 (75.60 to 76.60): VF0

Ion 77.90 (77.60 to 78.60): VF0



#18

Methyl Acetate

Concen: 52.751 ug/l

RT: 2.46 min Scan# 195

Delta R.T. 0.00 min

Lab File: VF062198.D

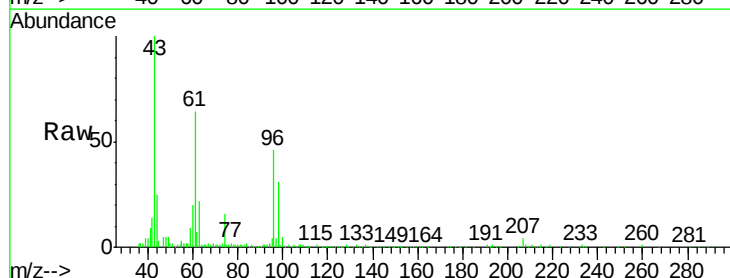
Acq: 18 Apr 2019 11:04

Tgt Ion: 43 Resp: 122566

Ion Ratio Lower Upper

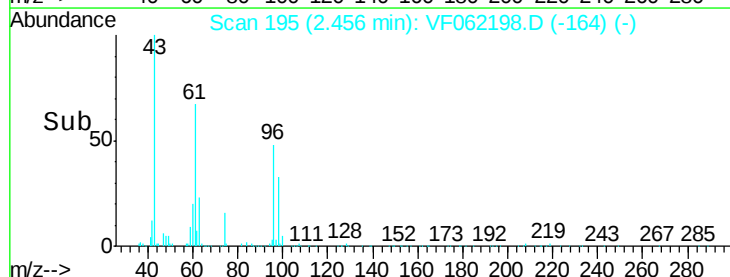
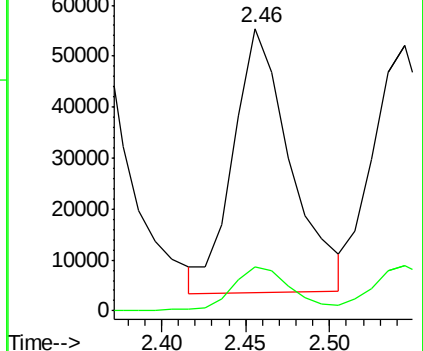
43 100

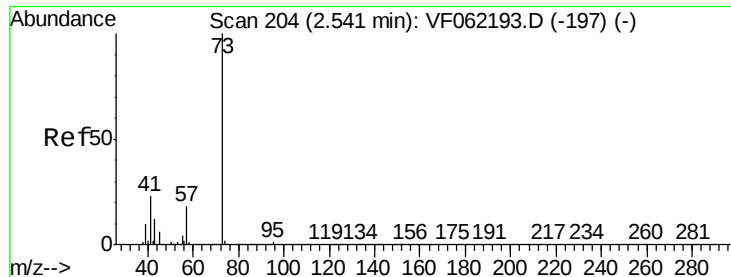
74 16.8 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0





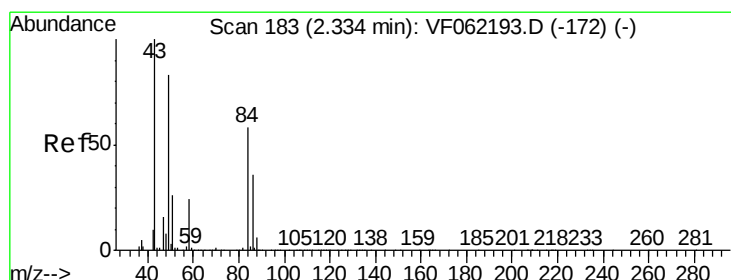
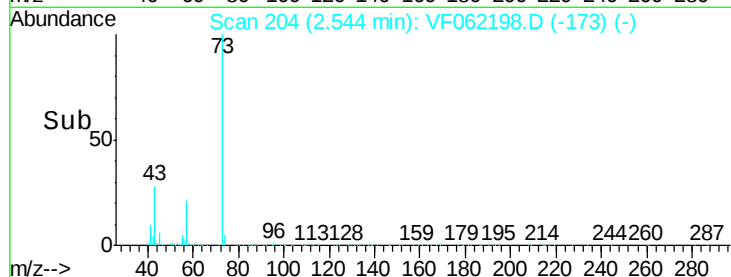
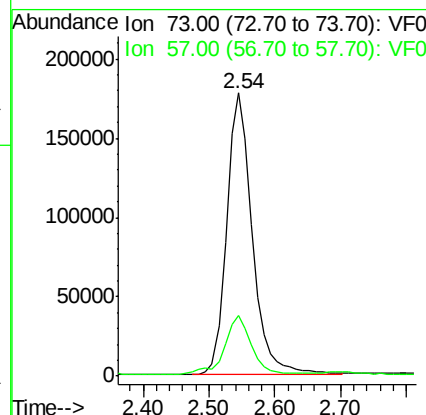
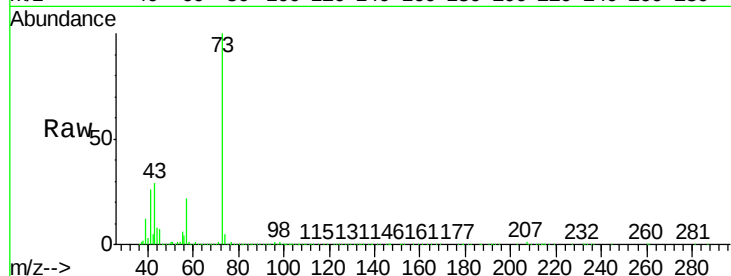
#19
Methvl tert-butvl Ether
Concen: 49.672 ug/l
RT: 2.54 min Scan# 204
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	20.2	15.1	22.7

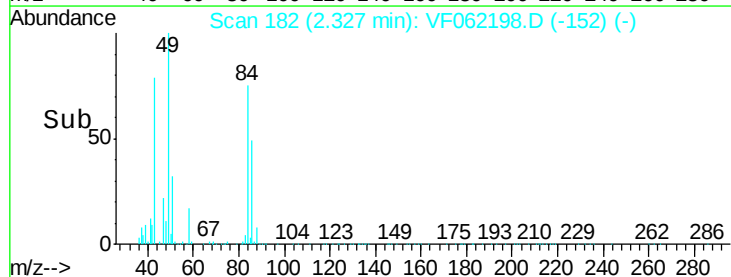
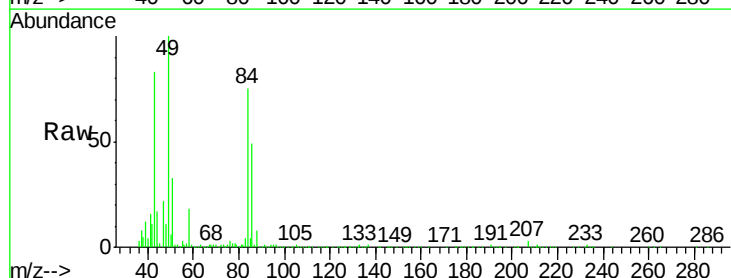
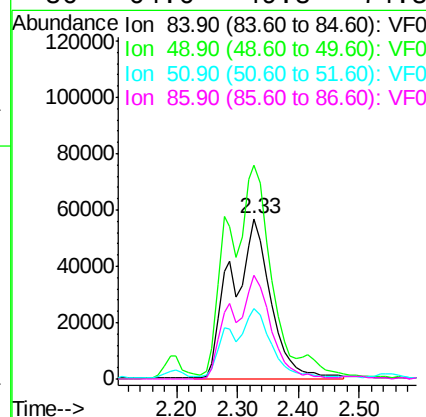
Manual Integrations
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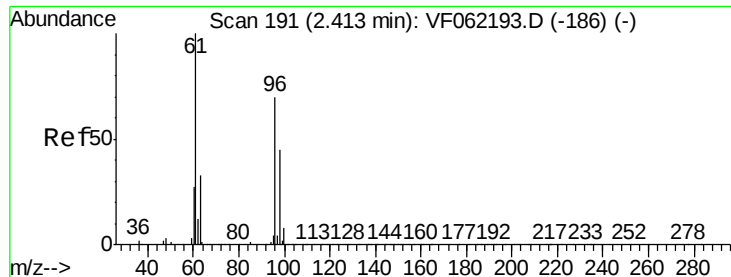
MMDadoda
4/19/2019 11:10:55 AM



#20
Methylene Chloride
Concen: 48.332 ug/l m
RT: 2.33 min Scan# 182
Delta R.T. -0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
84	100		
49	133.1	114.0	171.0
51	43.8	37.0	55.4
86	64.6	49.8	74.8





#21

trans-1,2-Dichloroethene

Concen: 49.579 ug/l

RT: 2.42 min Scan# 191

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

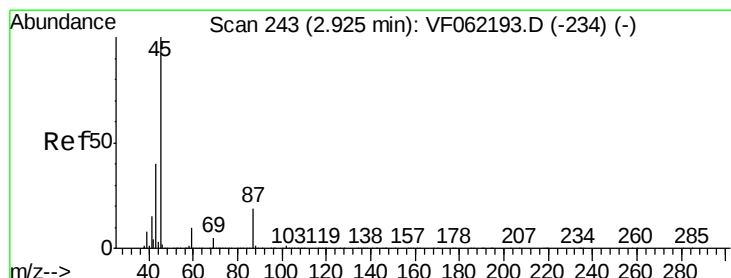
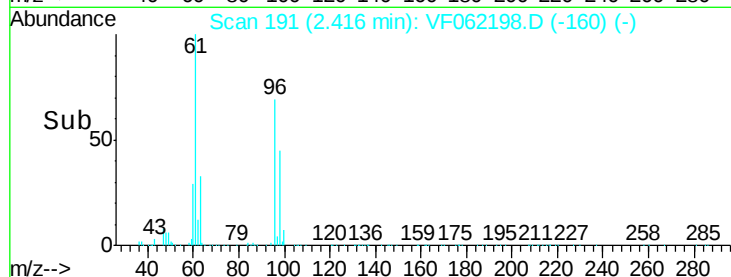
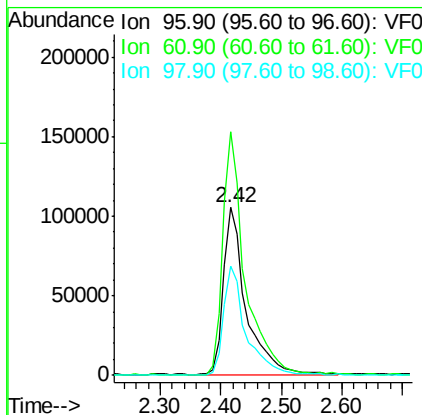
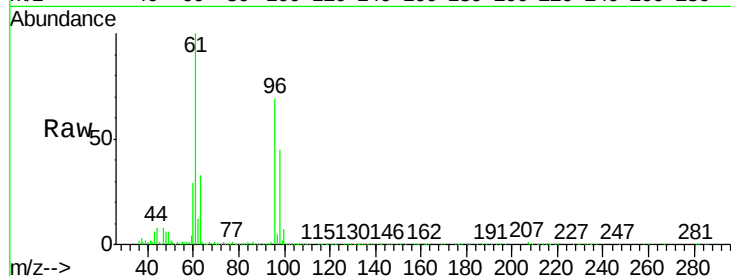
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	270425
Ion Ratio	Lower	Upper	
96	100		
61	145.8	114.6	172.0
98	65.3	51.2	76.8

Manual Integrations
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MMDadoda
4/19/2019 11:10:55 AM



#22

Diisopropyl ether

Concen: 49.185 ug/l

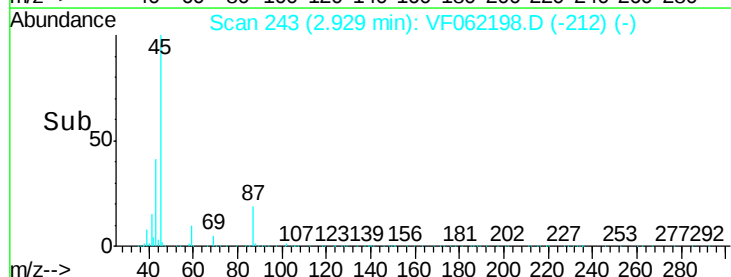
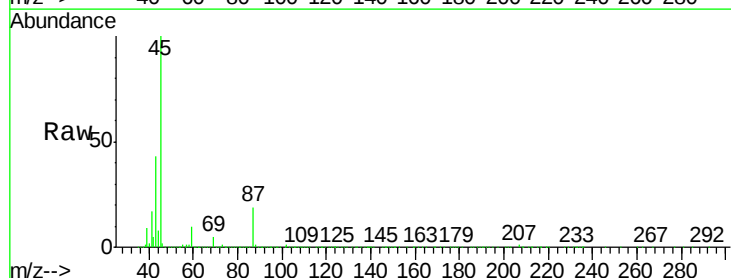
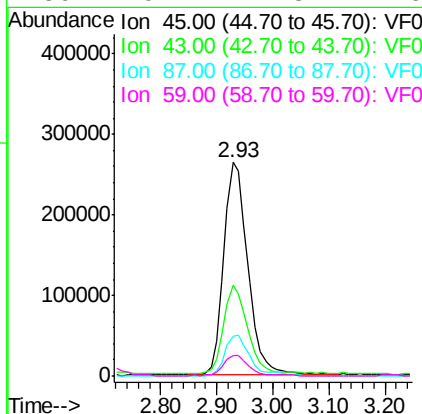
RT: 2.93 min Scan# 243

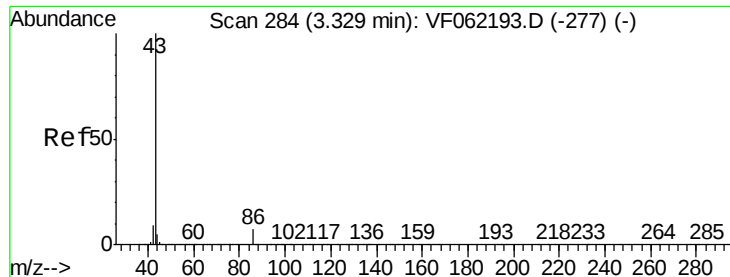
Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion:	45	Resp:	796386
Ion Ratio	Lower	Upper	
45	100		
43	41.7	32.8	49.2
87	18.7	15.2	22.8
59	9.7	7.8	11.6





#23

Vinyl Acetate

Concen: 241.934 ug/l

RT: 3.34 min Scan# 285

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 1866390

Ion Ratio Lower Upper

43 100

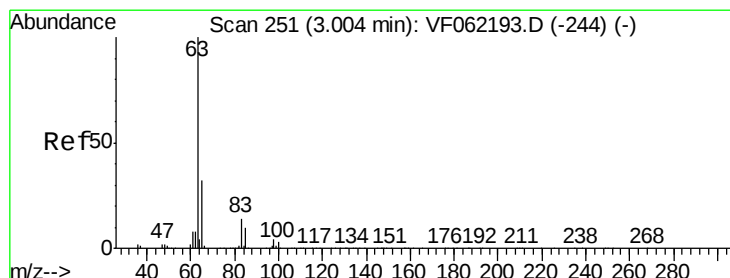
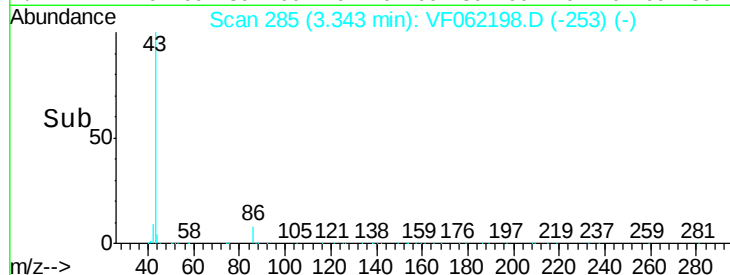
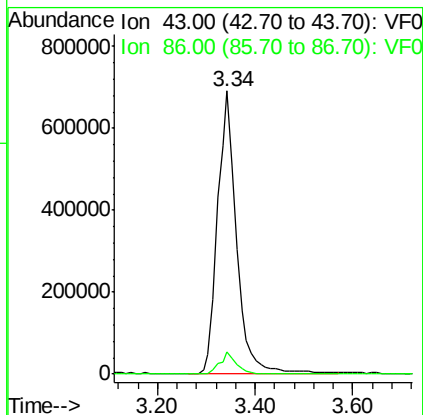
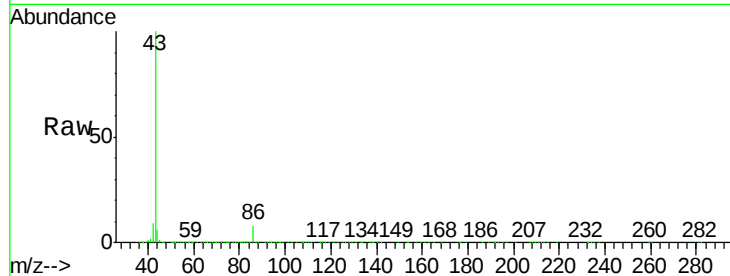
86 7.7 5.9 8.9

Manual Integrations

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MMDadoda

4/19/2019 11:10:55 AM



#24

1,1-Dichloroethane

Concen: 51.279 ug/l

RT: 3.01 min Scan# 251

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

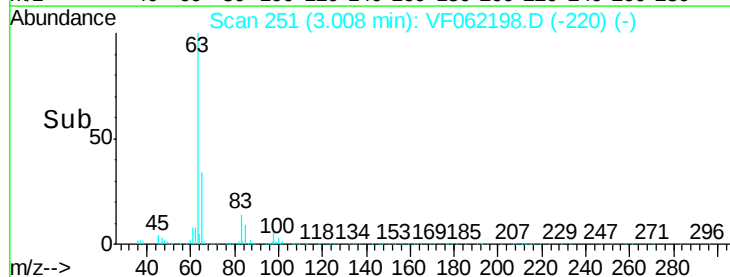
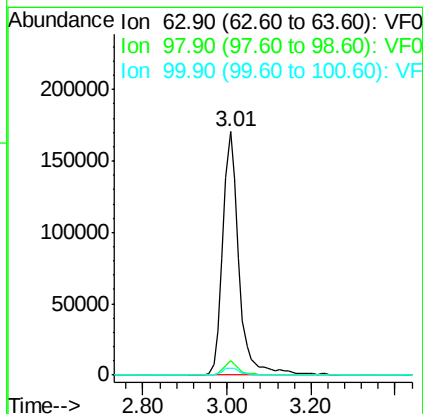
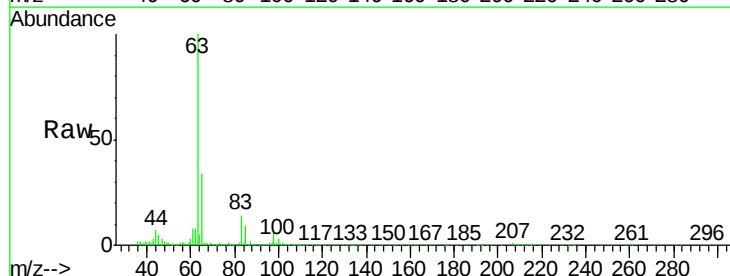
Tgt Ion: 63 Resp: 454200

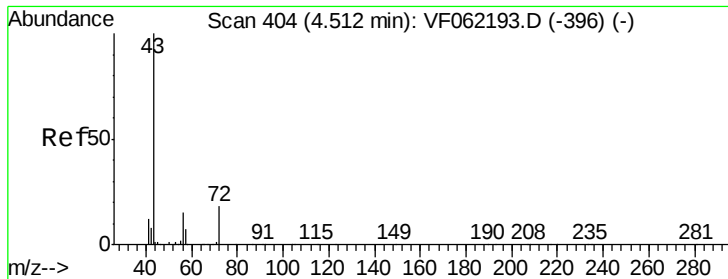
Ion Ratio Lower Upper

63 100

98 5.7 2.3 6.8

100 3.0 1.7 5.0





#25

2-Butanone

Concen: 256.181 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 555889

Ion Ratio Lower Upper

43 100

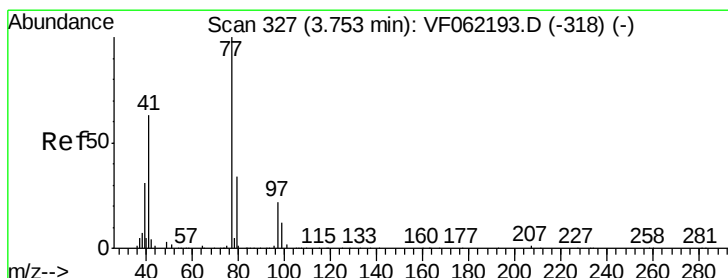
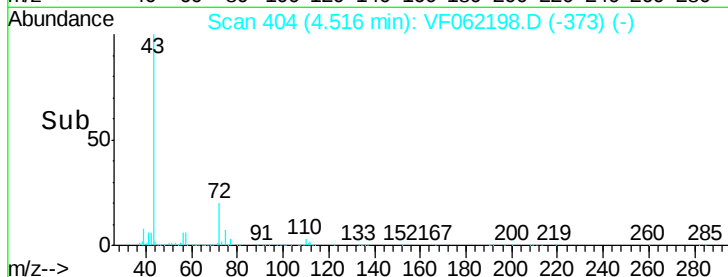
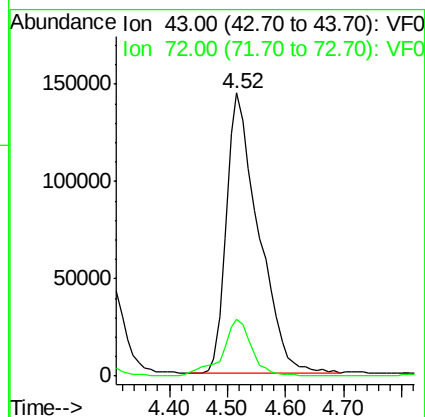
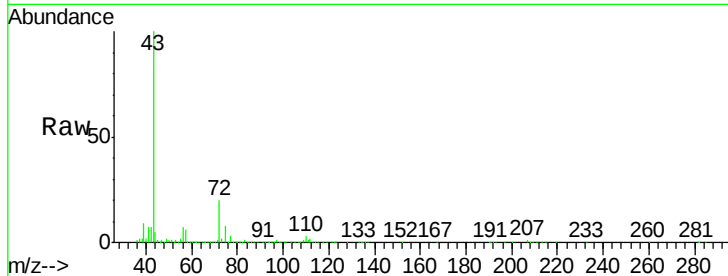
72 20.2 16.1 24.1

Manual Integrations

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4/19/2019 11:10:55 AM



#26

2,2-Dichloropropane

Concen: 48.797 ug/l

RT: 3.77 min Scan# 328

Delta R.T. 0.01 min

Lab File: VF062198.D

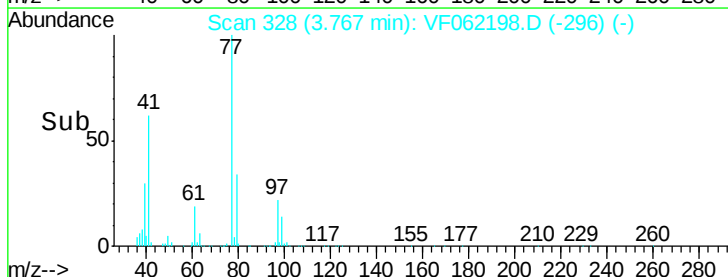
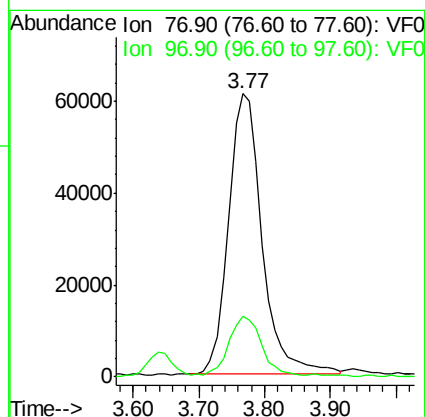
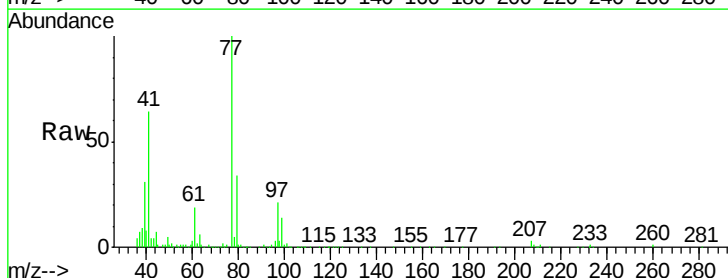
Acq: 18 Apr 2019 11:04

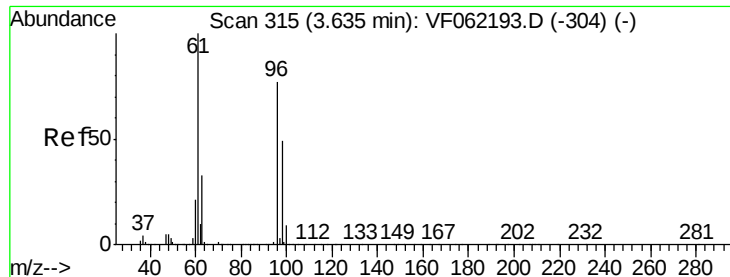
Tgt Ion: 77 Resp: 218214

Ion Ratio Lower Upper

77 100

97 20.4 11.1 33.3





#27

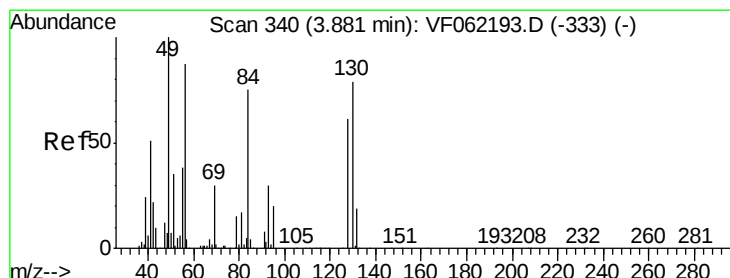
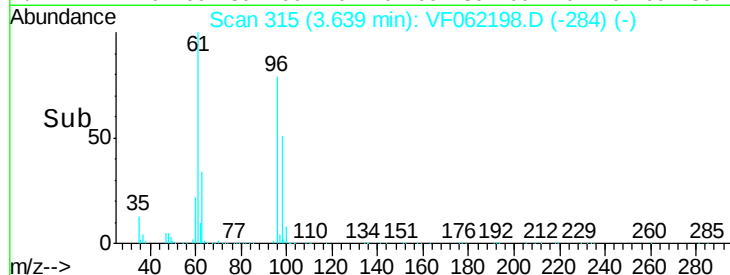
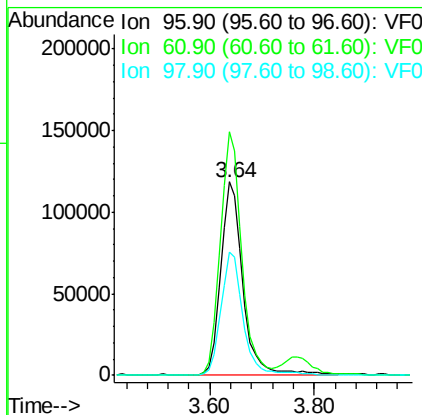
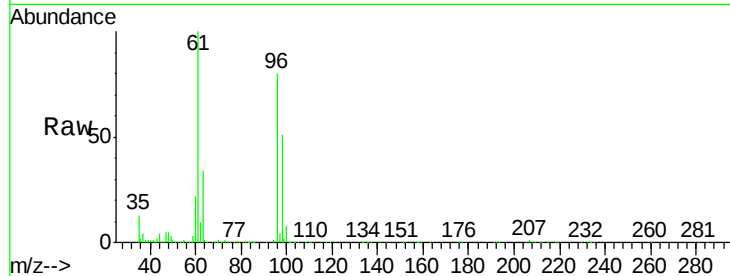
cis-1,2-Dichloroethene
Concen: 48.532 ug/l
RT: 3.64 min Scan# 315
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	342798		
61	123.0	0.0	253.6	
98	64.4	0.0	124.8	

Manual Integrations
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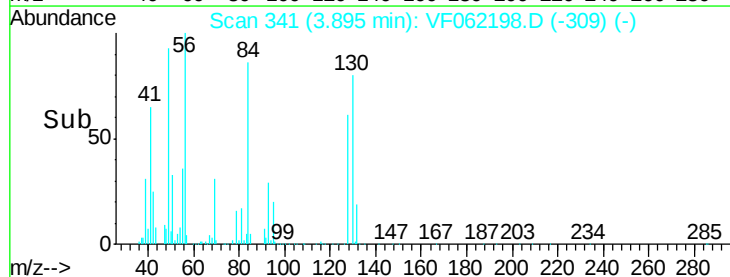
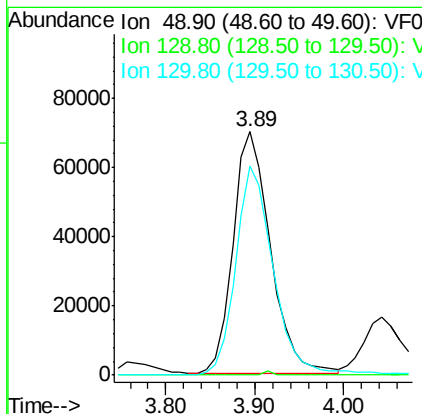
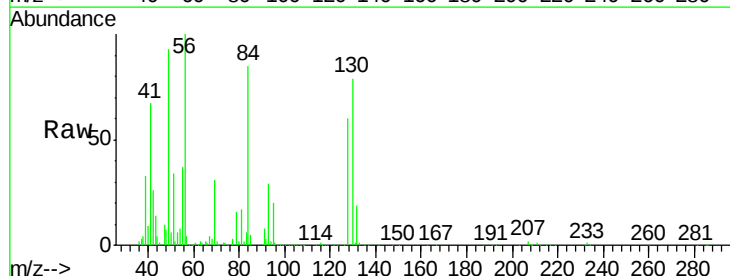
MMDadoda
4/19/2019 11:10:55 AM

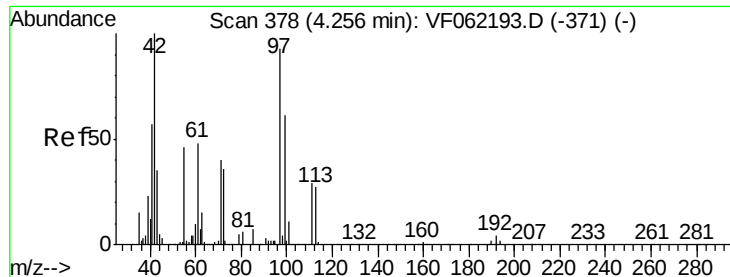


#28

Bromochloromethane
Concen: 48.563 ug/l
RT: 3.89 min Scan# 341
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	206052		
129	0.4	0.0	0.0#	
130	86.8	66.6	100.0	





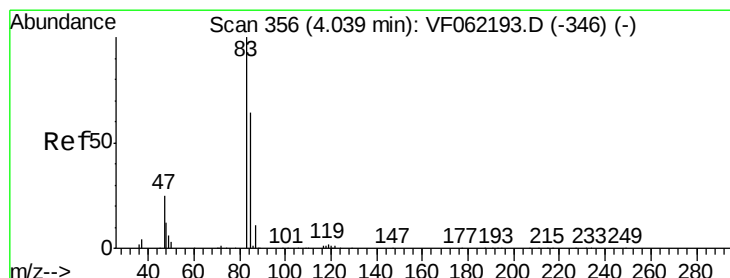
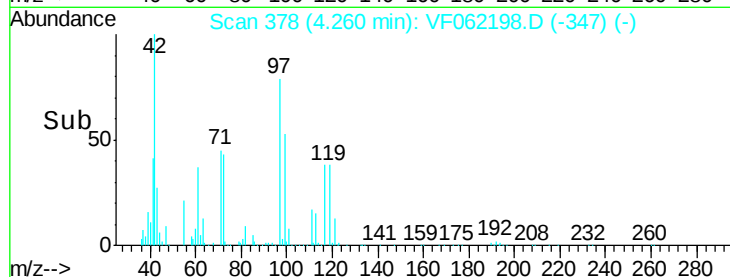
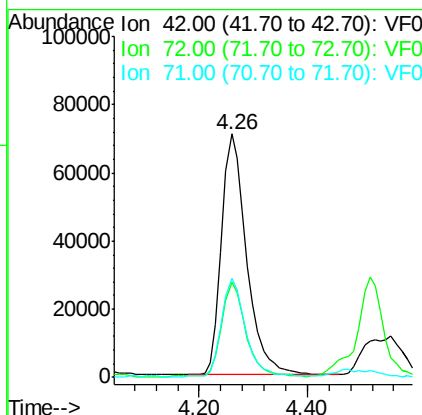
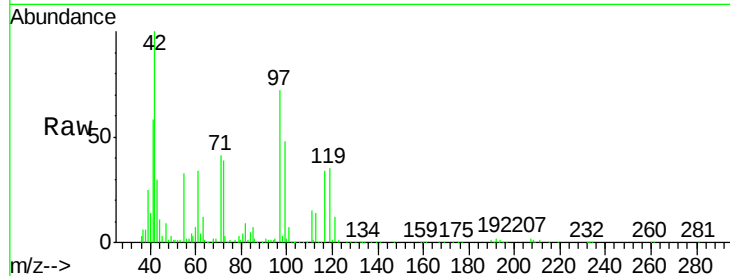
#29
Tetrahydrofuran
Concen: 231.817 ug/l
RT: 4.26 min Scan# 378
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
42	100	227685		
72	36.9		28.6	43.0
71	38.9		29.2	43.8

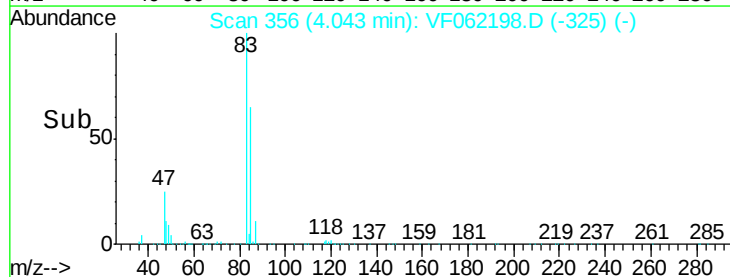
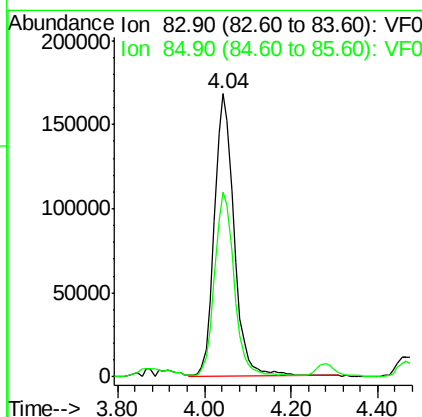
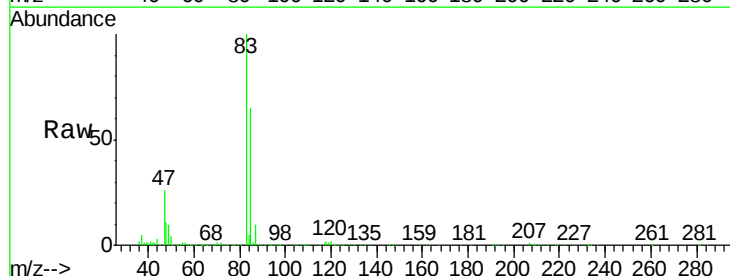
Manual Integrations
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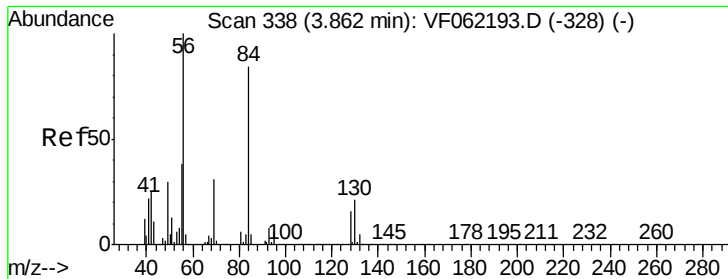
MMDadoda
4/19/2019 11:10:55 AM



#30
Chloroform
Concen: 48.813 ug/l
RT: 4.04 min Scan# 356
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	531350		
85	65.1		51.8	77.8





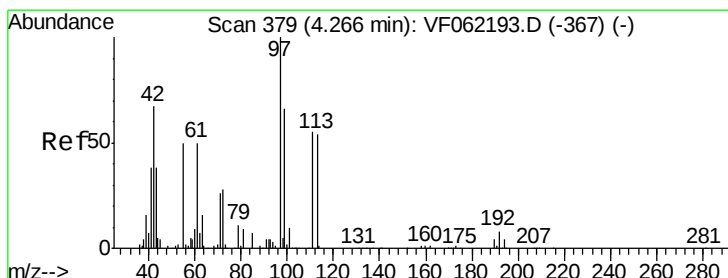
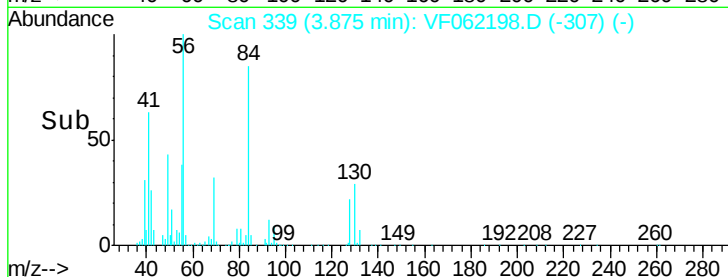
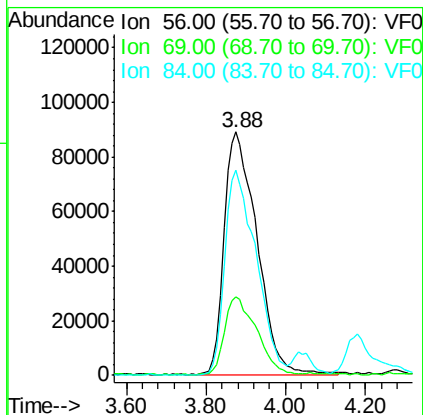
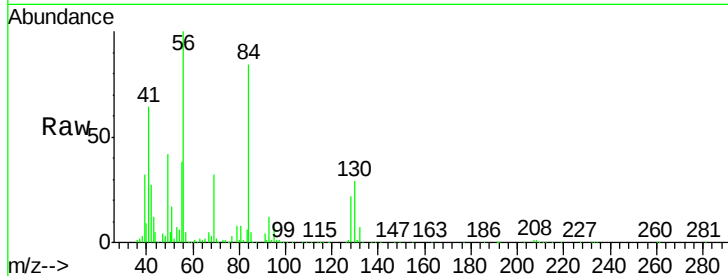
#31
Cyclohexane
Concen: 47.944 ug/l
RT: 3.88 min Scan# 339
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.1	37.7
84	84.5	67.8	101.6

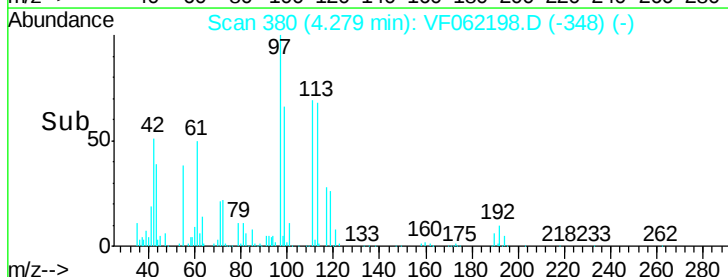
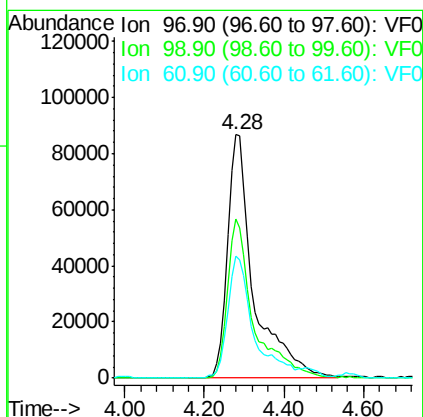
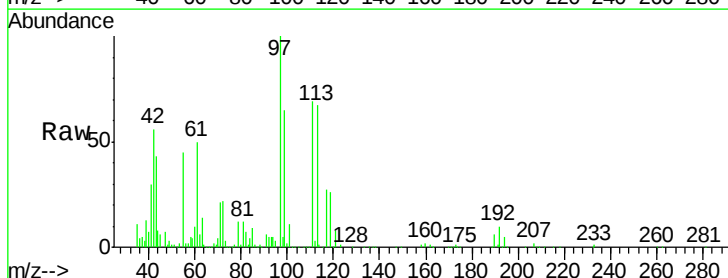
Manual Integrations
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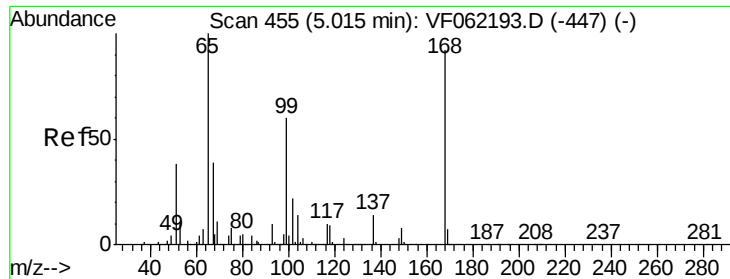
MMDadoda
4/19/2019 11:10:55 AM



#32
1,1,1-Trichloroethane
Concen: 50.219 ug/l
RT: 4.28 min Scan# 380
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.7	79.1
61	50.3	53.0	79.4#





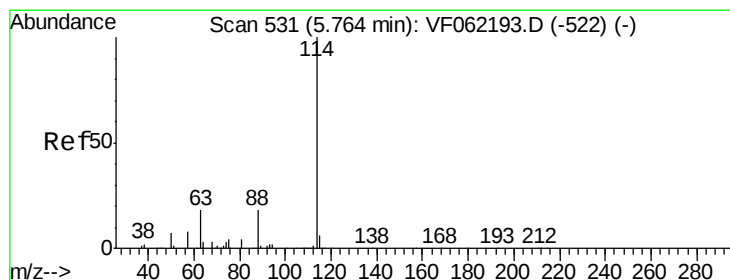
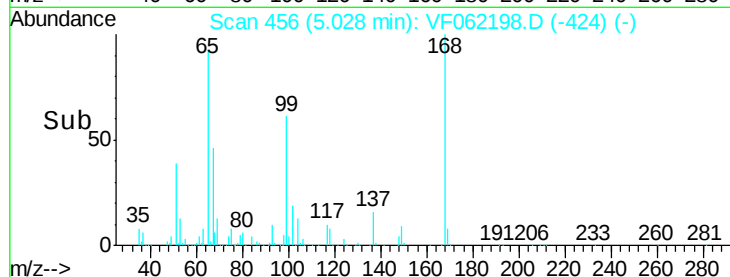
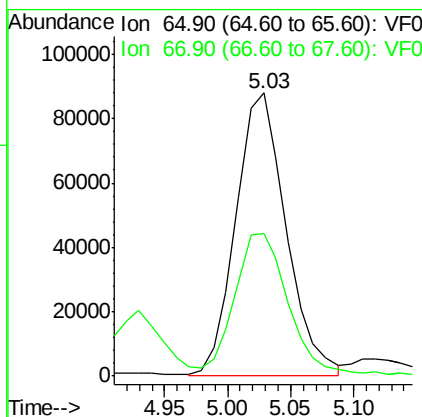
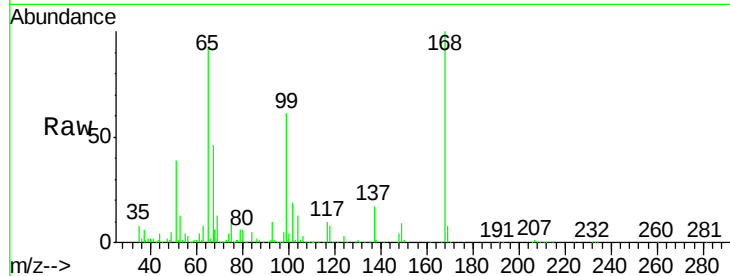
#33
 1,2-Dichloroethane-d4
 Concen: 53.475 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. 0.01 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	242782		
67	53.4	0.0	109.4	

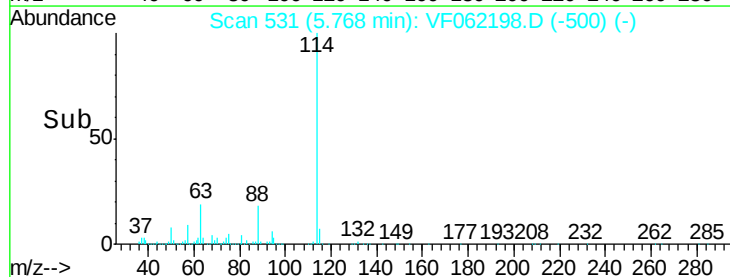
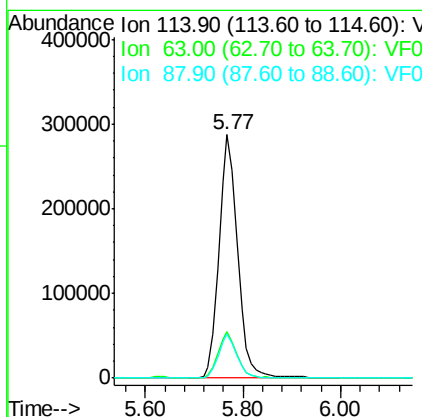
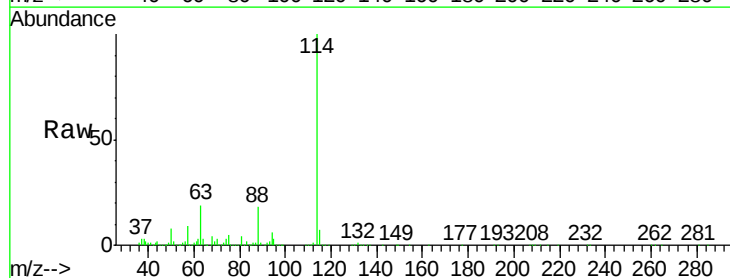
Manual Integrations
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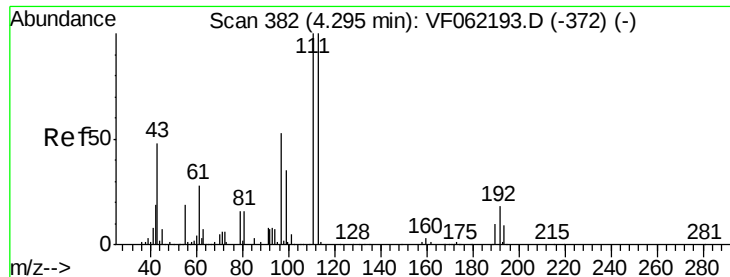
MMDadoda
 4/19/2019 11:10:55 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 531
 Delta R.T. 0.00 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	764779		
63	19.1	0.0	36.6	
88	17.8	0.0	35.8	





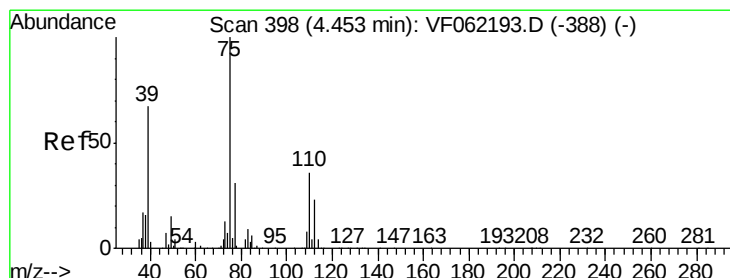
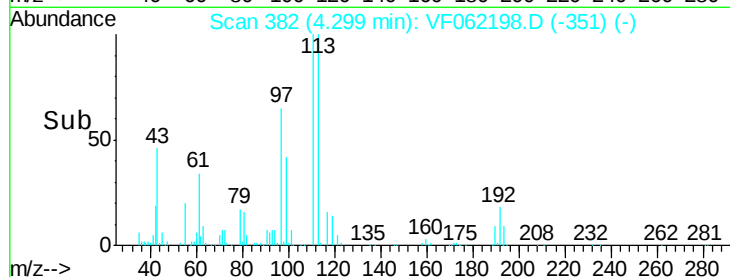
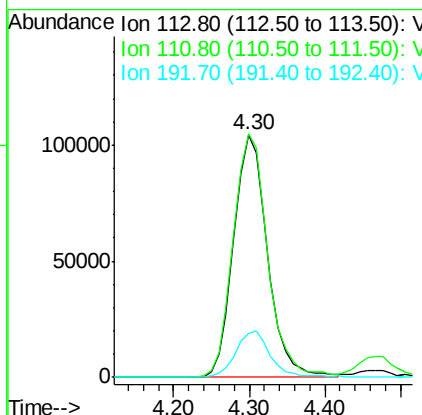
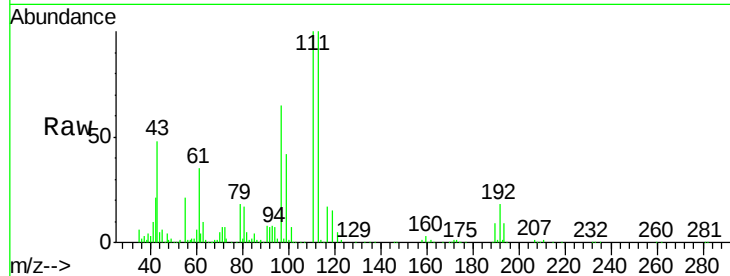
#35
 Dibromofluoromethane
 Concen: 48.354 ug/l
 RT: 4.30 min Scan# 382
 Delta R.T. 0.00 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	323481		
111	102.4	81.1	121.7	
192	19.7	14.7	22.1	

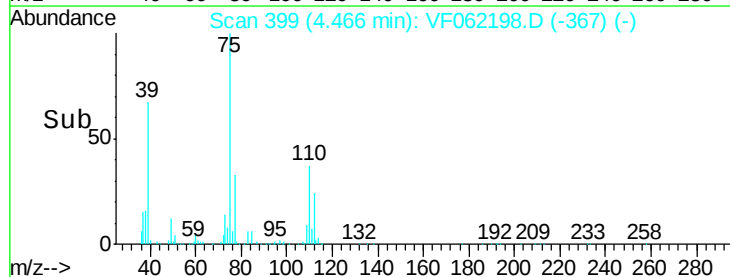
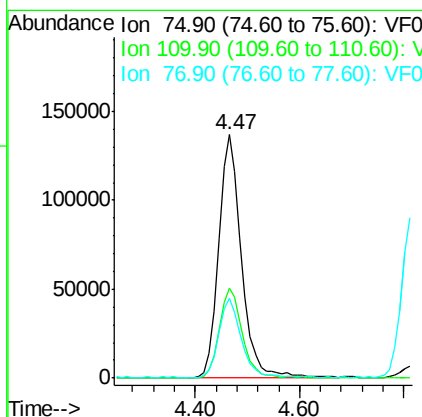
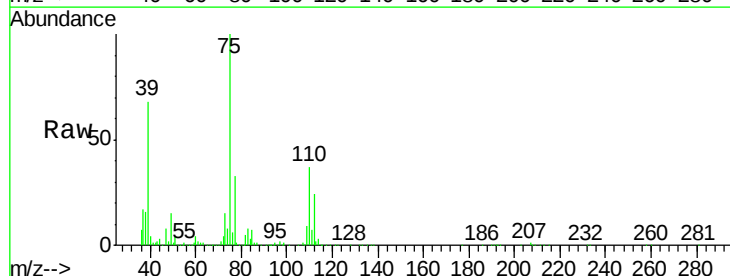
Manual Integrations
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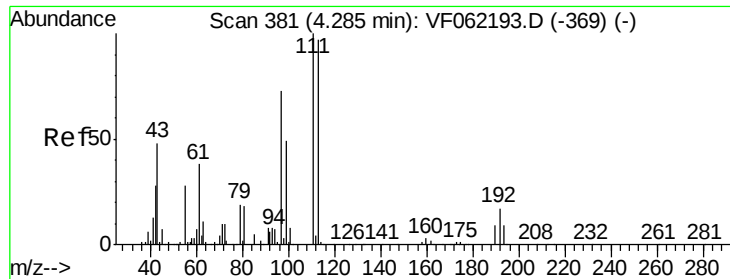
MMDadoda
 4/19/2019 11:10:55 AM



#36
 1,1-Dichloropropene
 Concen: 45.108 ug/l
 RT: 4.47 min Scan# 399
 Delta R.T. 0.01 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	413609		
110	37.1	18.4	55.2	
77	32.6	25.4	38.2	





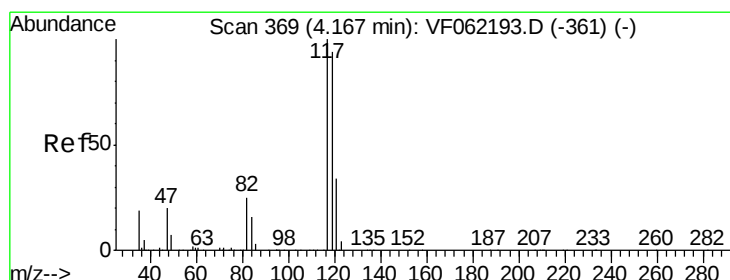
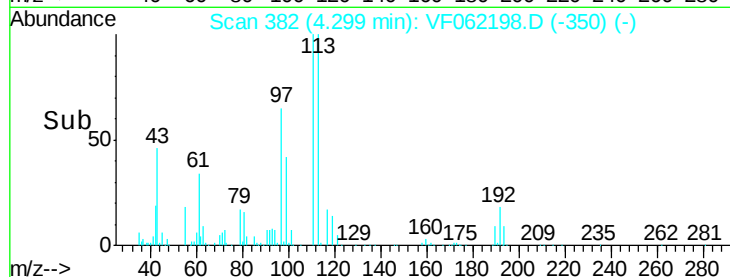
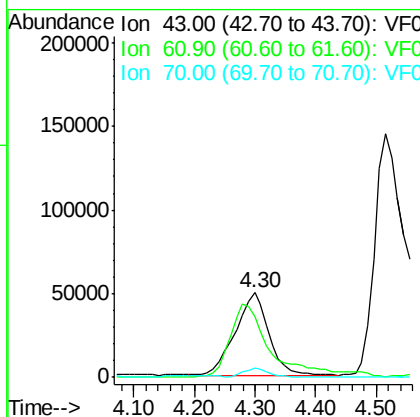
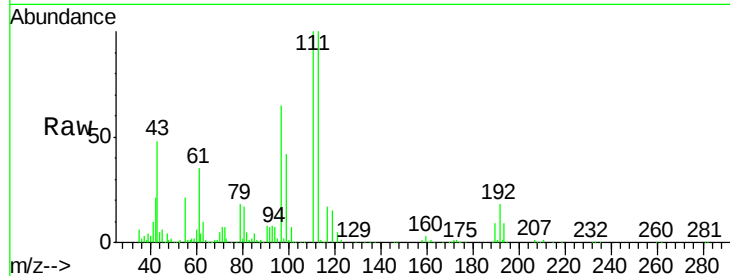
#37
Ethyl Acetate
Concen: 43.333 ug/l
RT: 4.30 min Scan# 382
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	107.4	0.0	0.0#
70	9.6	7.8	11.6

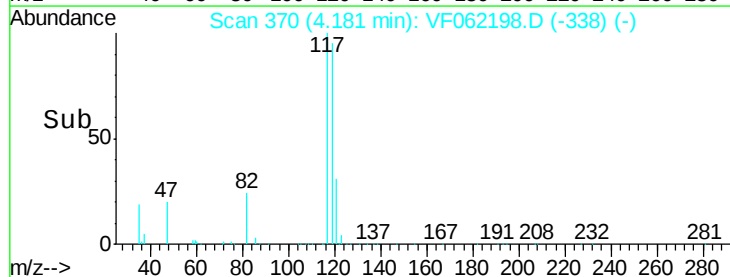
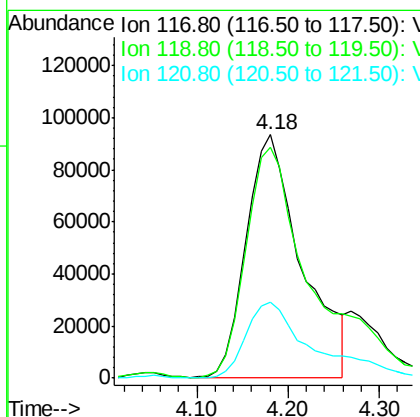
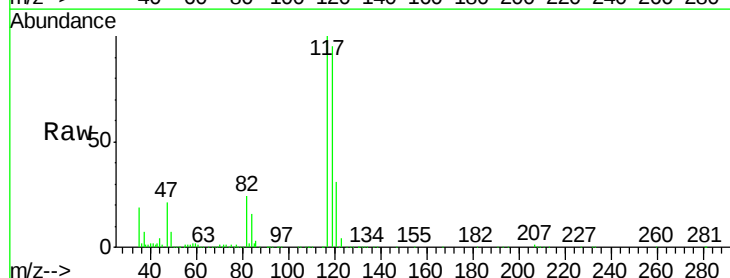
Manual Integrations
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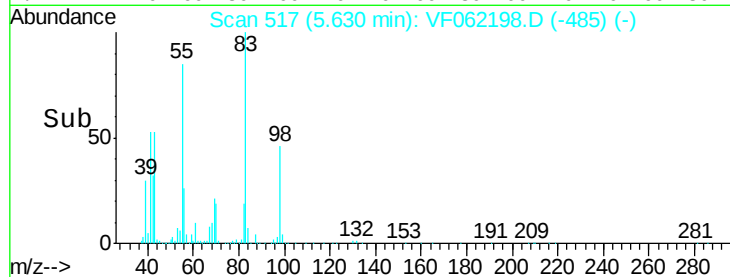
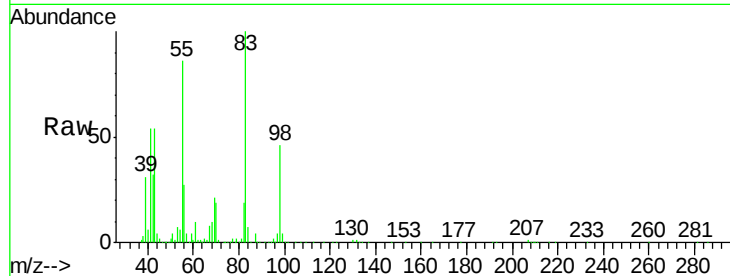
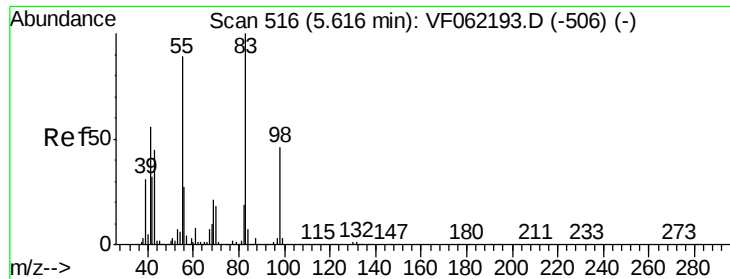
MMDadoda
4/19/2019 11:10:55 AM



#38
Carbon Tetrachloride
Concen: 49.091 ug/l m
RT: 4.18 min Scan# 370
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.0	75.0	112.4
121	31.2	26.9	40.3





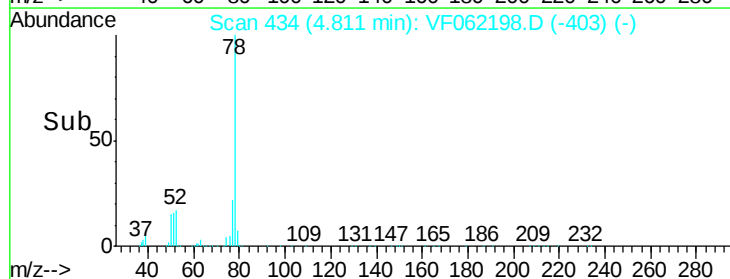
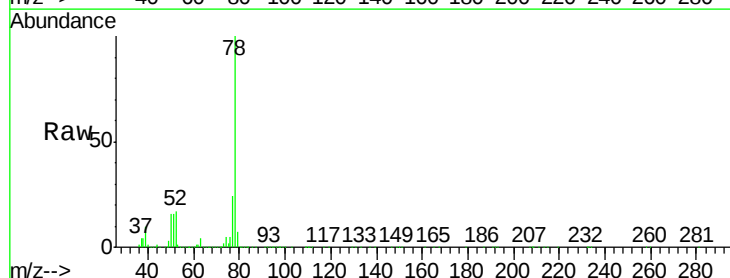
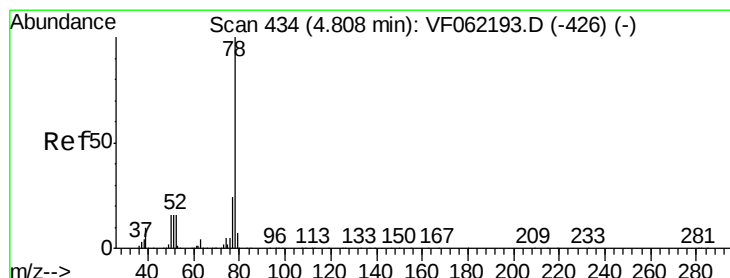
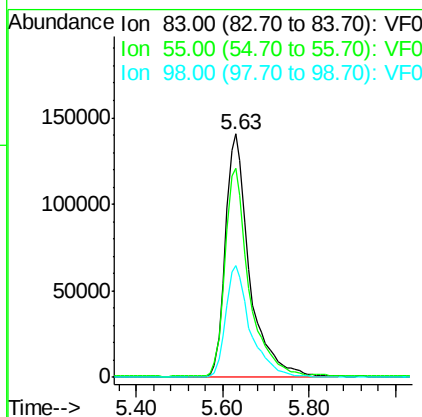
#39
Methylcyclohexane
Concen: 49.673 ug/l
RT: 5.63 min Scan# 517
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.2	71.0	106.6
98	45.7	36.7	55.1

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

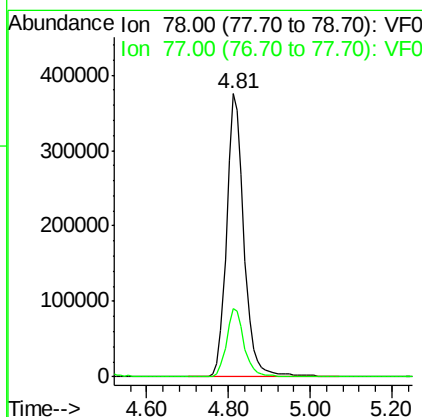
Manual Integrations
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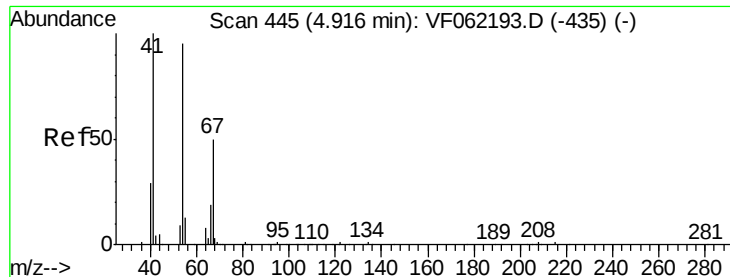
MMDadoda
4/19/2019 11:10:55 AM



#40
Benzene
Concen: 46.026 ug/l
RT: 4.81 min Scan# 434
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.9	28.3





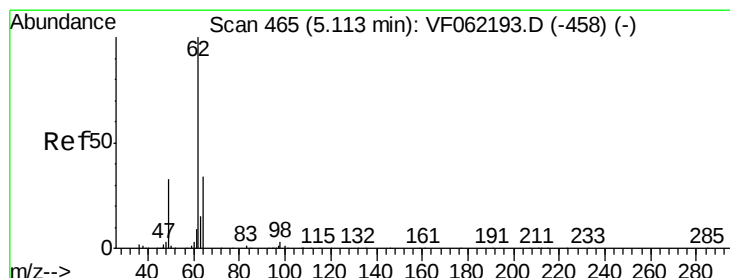
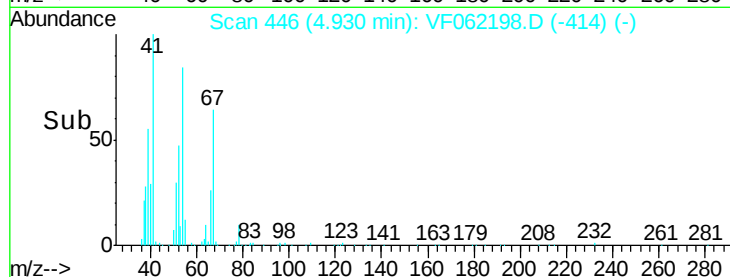
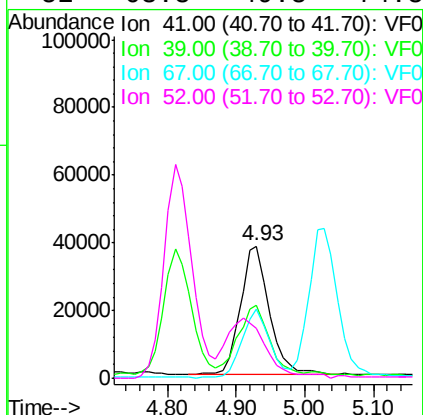
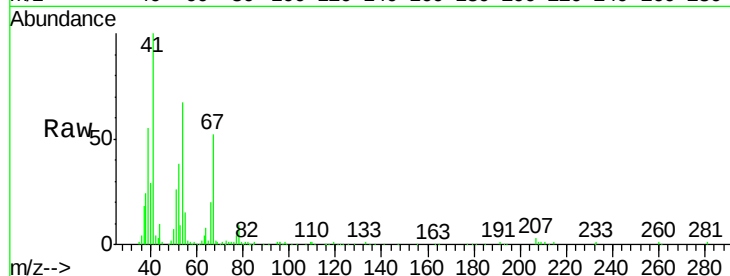
#41
Methacrylonitrile
Concen: 43.948 ug/l
RT: 4.93 min Scan# 446
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
41	100		
39	61.2	44.7	67.1
67	51.4	39.1	58.7
52	63.8	49.8	74.8

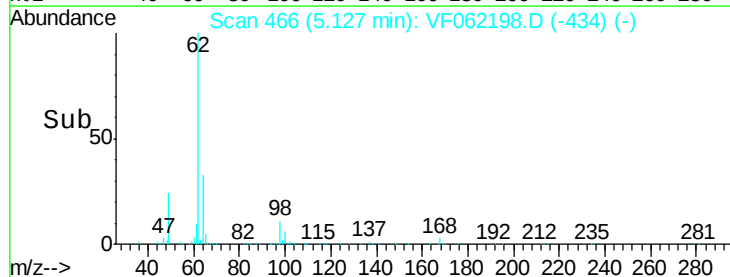
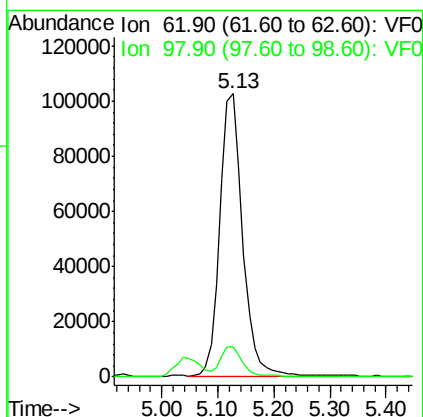
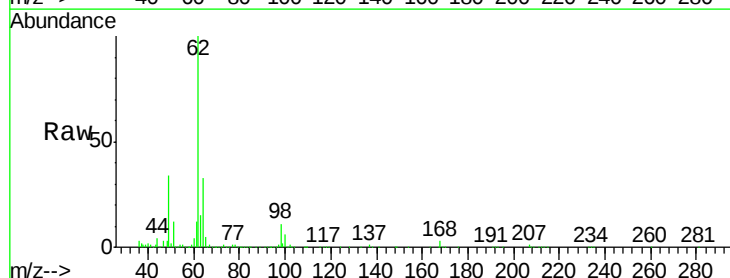
Manual Integrations
APPROVED

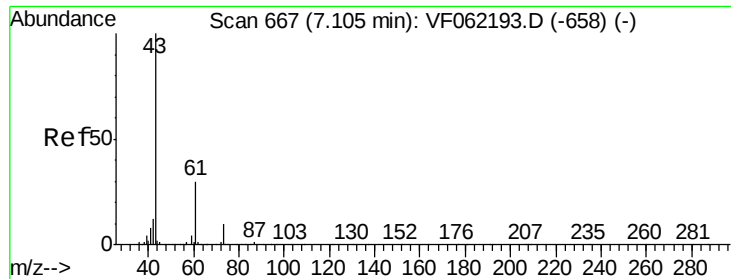
MMDadoda
4/19/2019 11:10:55 AM



#42
1,2-Dichloroethane
Concen: 46.513 ug/l
RT: 5.13 min Scan# 466
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	19.0





#43

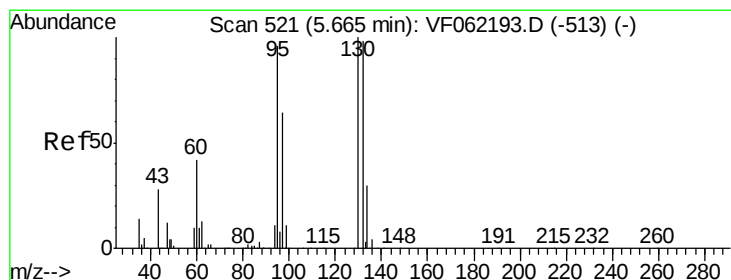
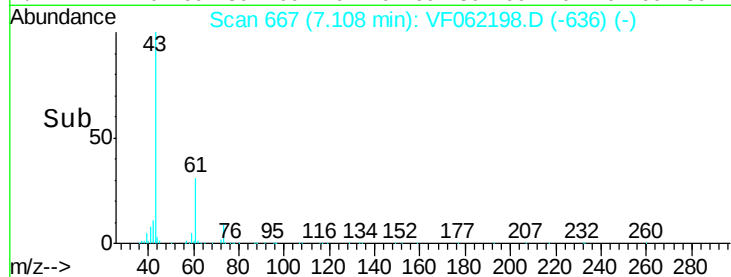
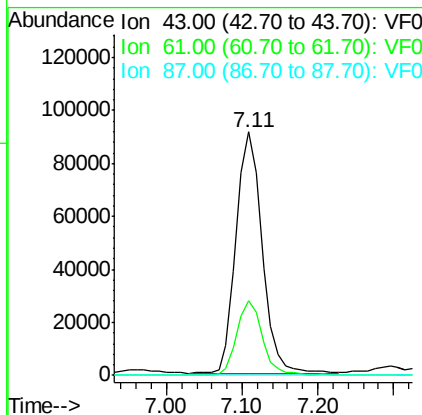
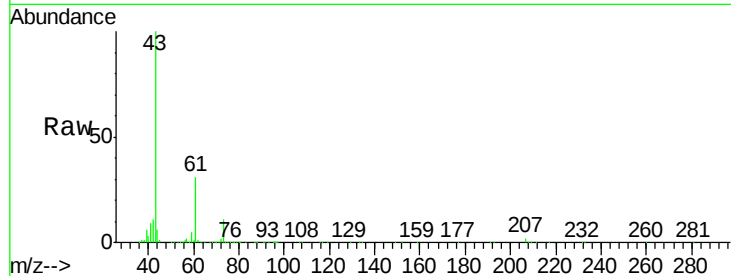
Isopropyl Acetate
 Concen: 47.570 ug/l
 RT: 7.11 min Scan# 667
 Delta R.T. 0.00 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	30.4	24.4	36.6
87	0.5	0.4	0.6

Manual Integrations
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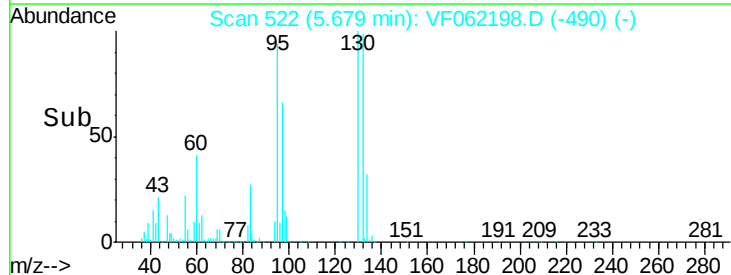
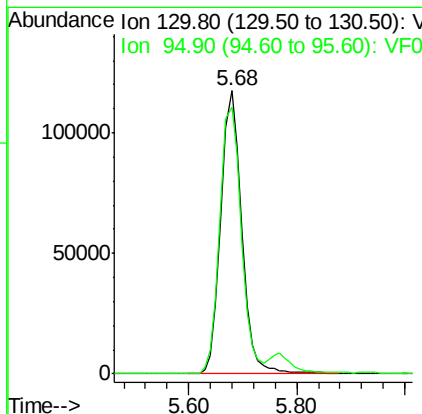
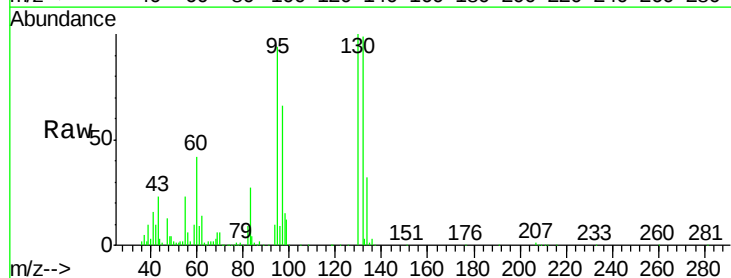
MMDadoda
 4/19/2019 11:10:55 AM

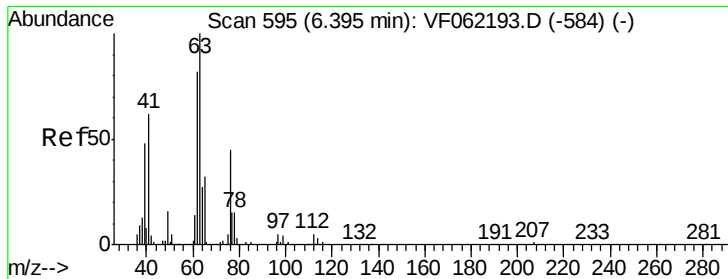


#44

Trichloroethene
 Concen: 48.602 ug/l
 RT: 5.68 min Scan# 522
 Delta R.T. 0.01 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	191.4





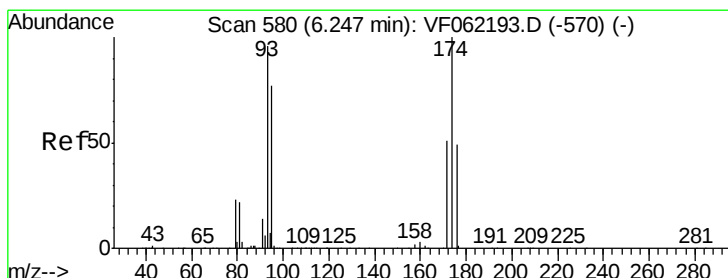
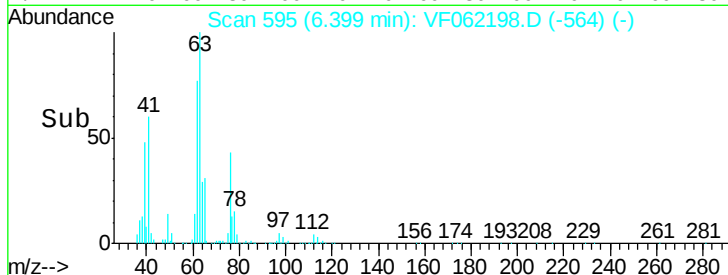
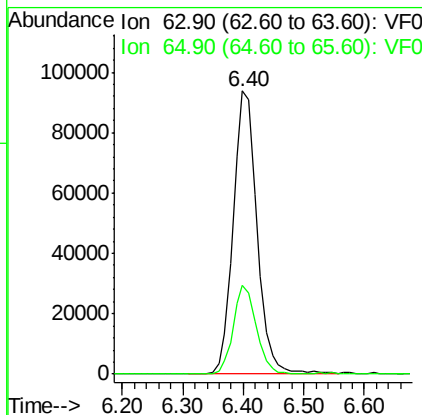
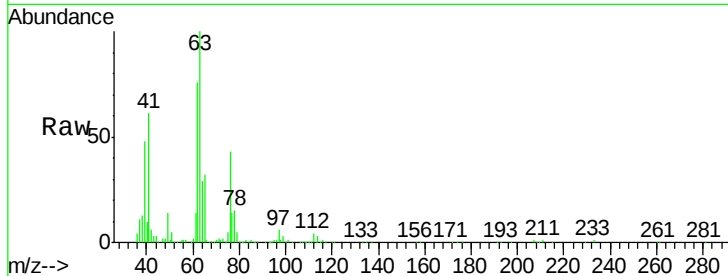
#45
 1,2-Dichloropropane
 Concen: 48.524 ug/l
 RT: 6.40 min Scan# 595
 Delta R.T. 0.00 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.9	38.9

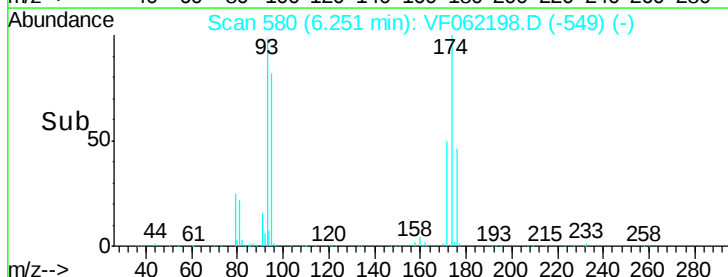
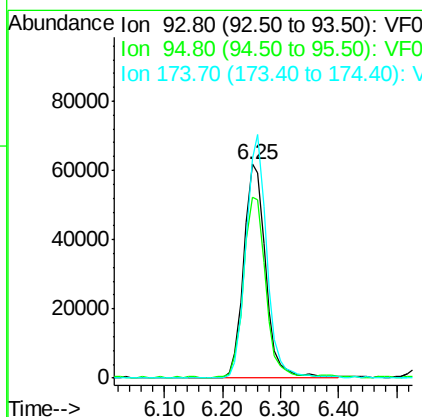
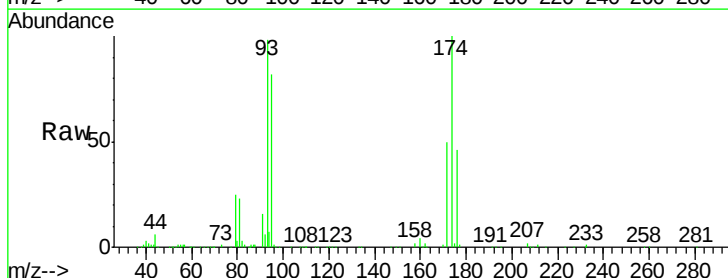
Manual Integrations
 APPROVED

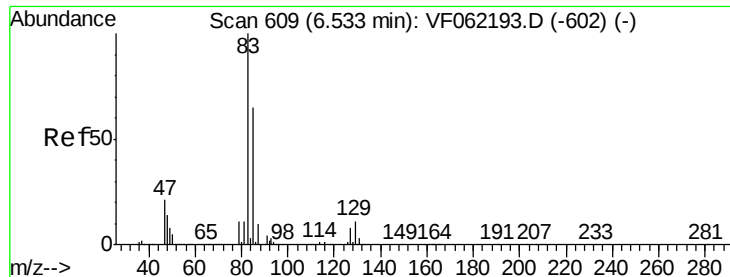
MMDadoda
 4/19/2019 11:10:55 AM



#46
 Dibromomethane
 Concen: 46.582 ug/l
 RT: 6.25 min Scan# 580
 Delta R.T. 0.00 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.0	65.1	97.7
174	108.0	81.8	122.6





#47

Bromodichloromethane

Concen: 47.627 ug/l

RT: 6.55 min Scan# 610

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

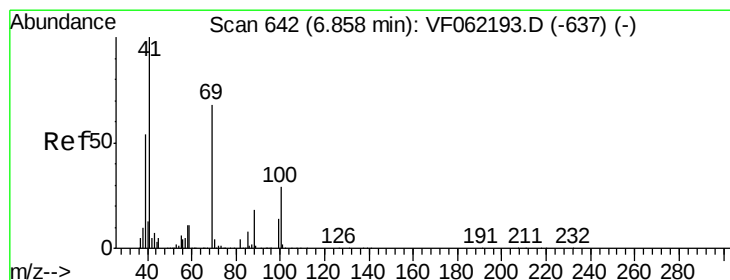
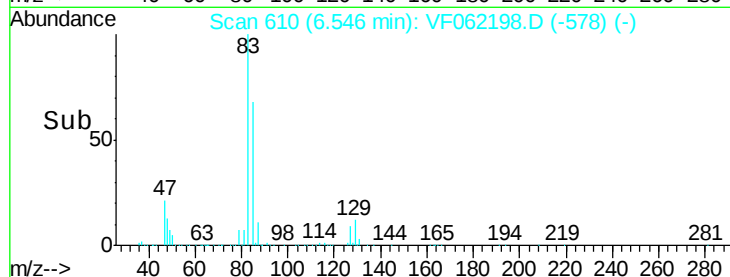
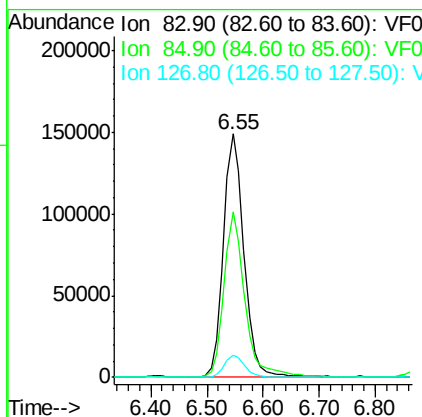
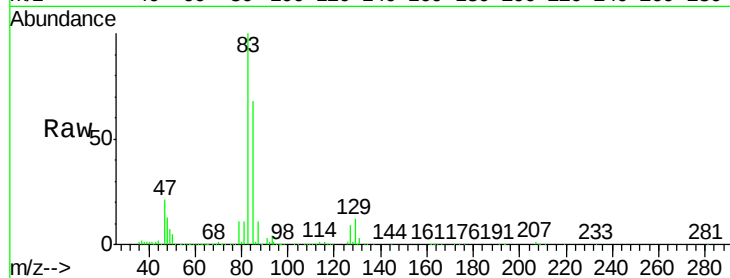
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	378825
Ion Ratio	Lower	Upper	
83	100		
85	68.3	52.2	78.4
127	9.3	6.7	10.1

Manual Integrations
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MMDadoda
4/19/2019 11:10:55 AM



#48

Methyl methacrylate

Concen: 47.606 ug/l

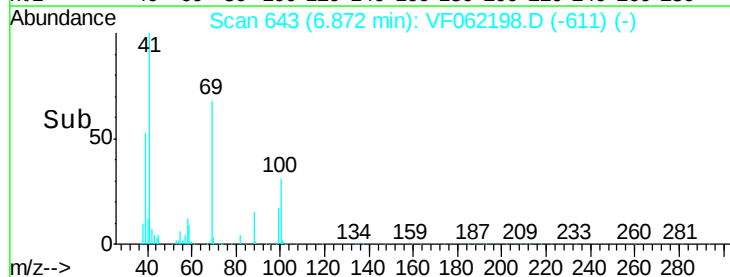
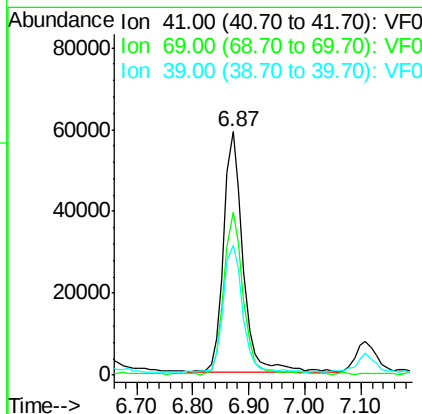
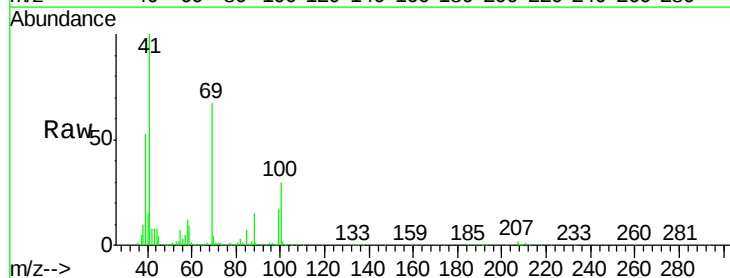
RT: 6.87 min Scan# 643

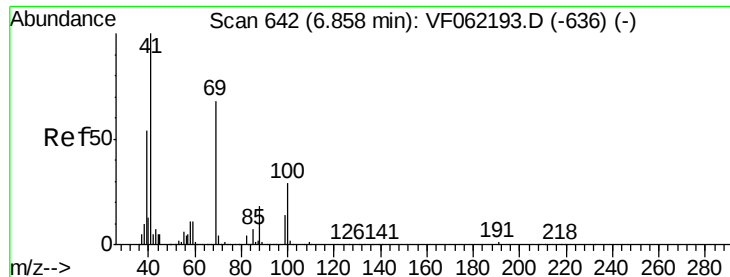
Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion:	41	Resp:	142374
Ion Ratio	Lower	Upper	
41	100		
69	65.8	54.9	82.3
39	52.9	43.6	65.4





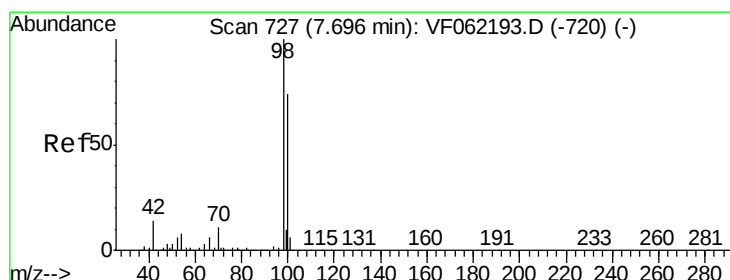
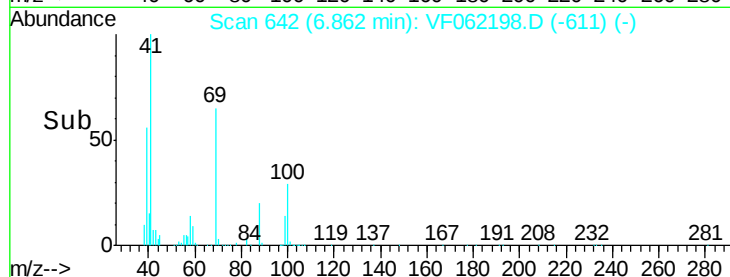
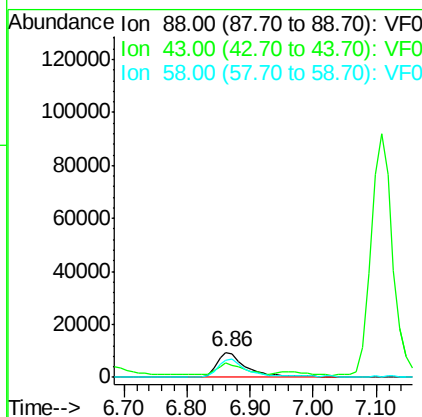
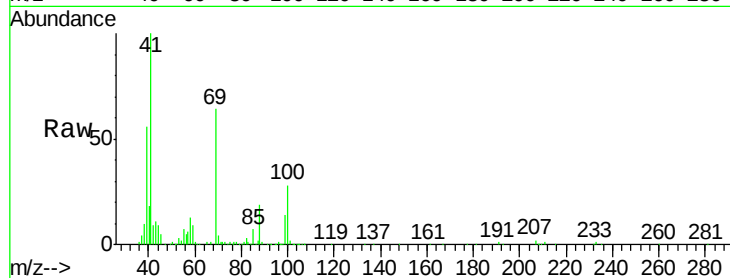
#49
1,4-Dioxane
Concen: 914.416 ug/l
RT: 6.86 min Scan# 642
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	38.0	36.9	55.3
58	67.9	56.8	85.2

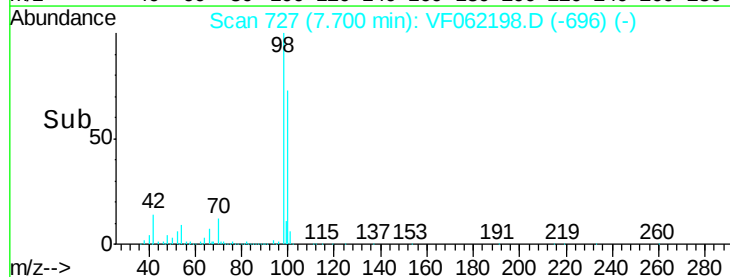
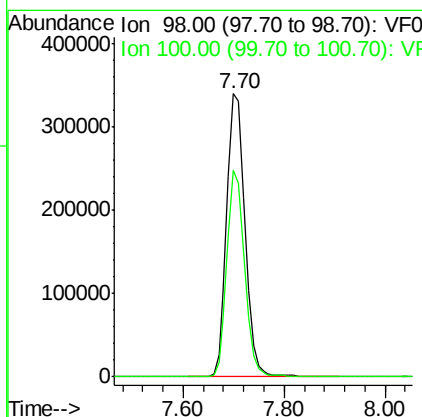
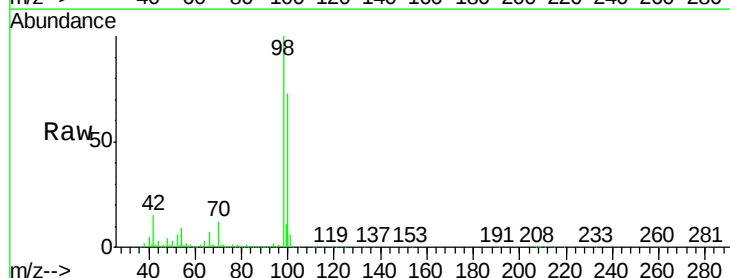
Manual Integrations
APPROVED

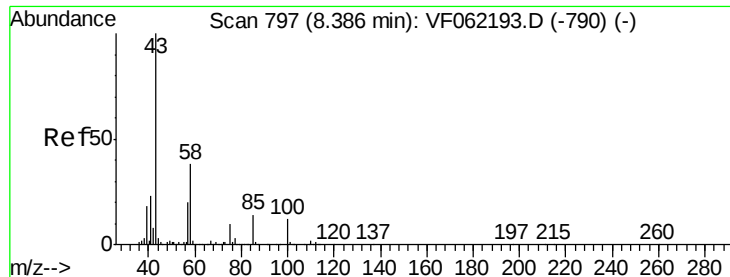
MMDadoda
4/19/2019 11:10:55 AM



#50
Toluene-d8
Concen: 50.413 ug/l
RT: 7.70 min Scan# 727
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.3	56.2	84.2





#51

4-Methyl-2-Pentanone

Concen: 233.743 ug/l

RT: 8.40 min Scan# 798

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 791166

Ion Ratio Lower Upper

43 100

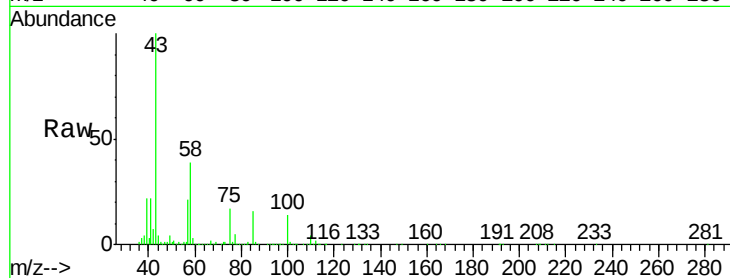
58 37.9 29.3 43.9

Manual Integrations

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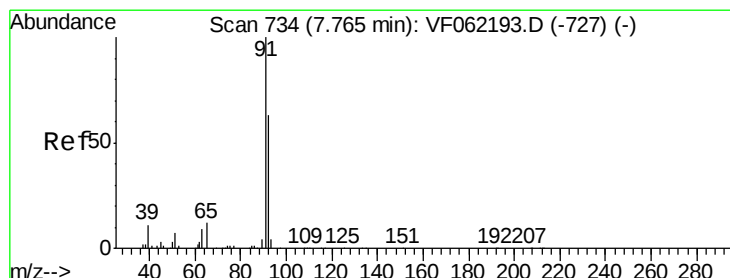
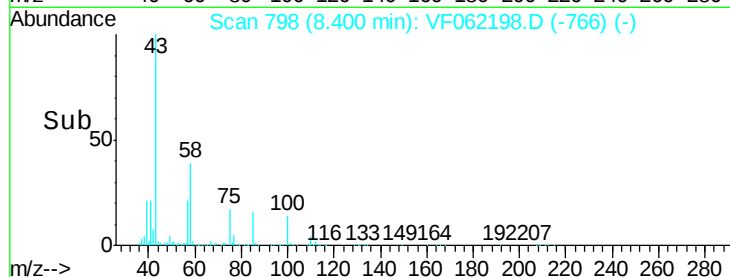
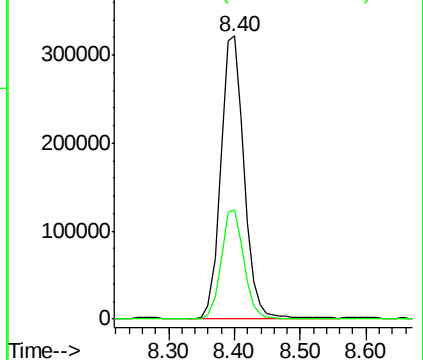
MMDadoda

4/19/2019 11:10:55 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 47.620 ug/l

RT: 7.77 min Scan# 734

Delta R.T. 0.00 min

Lab File: VF062198.D

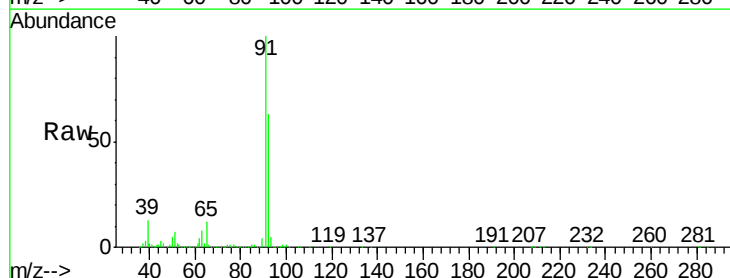
Acq: 18 Apr 2019 11:04

Tgt Ion: 92 Resp: 603715

Ion Ratio Lower Upper

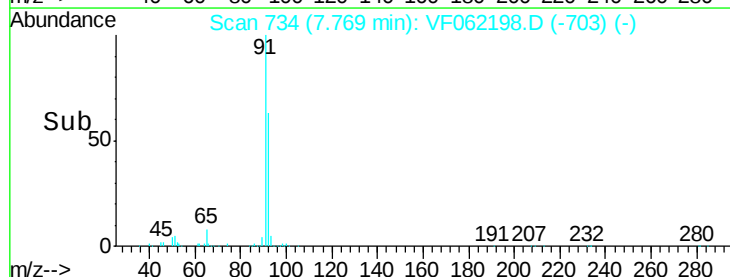
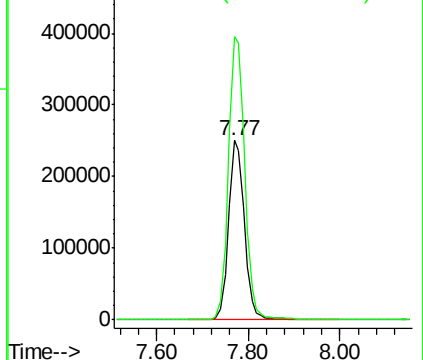
92 100

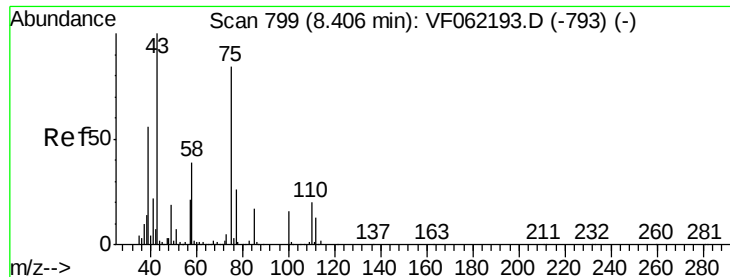
91 162.7 130.1 195.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





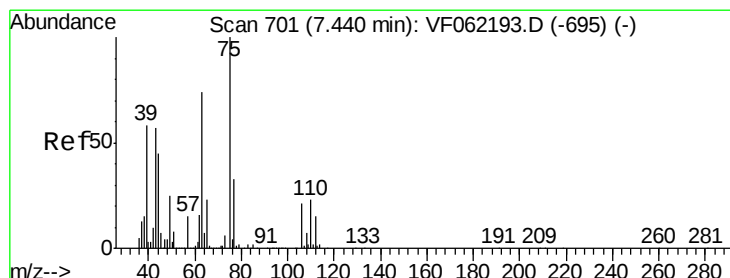
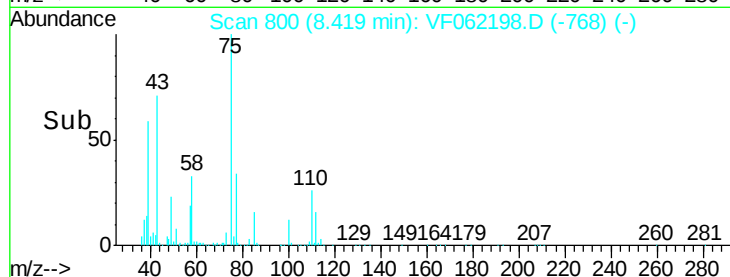
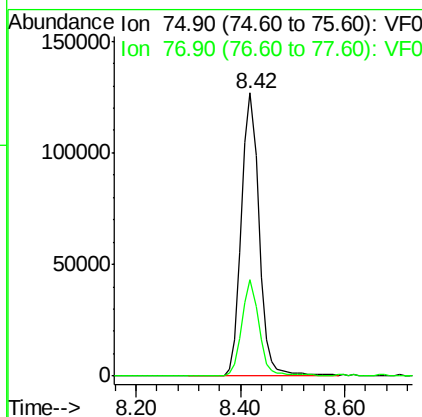
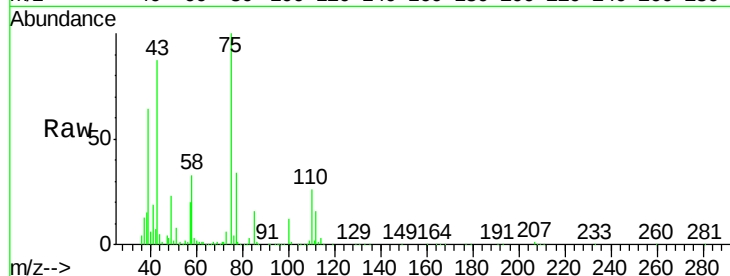
#53
t-1,3-Dichloropropene
Concen: 48.632 ug/l
RT: 8.42 min Scan# 800
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.9	24.6	36.8

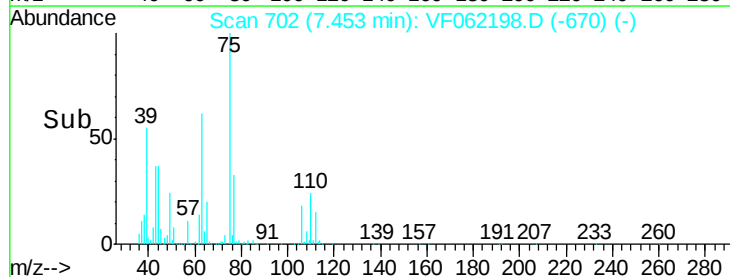
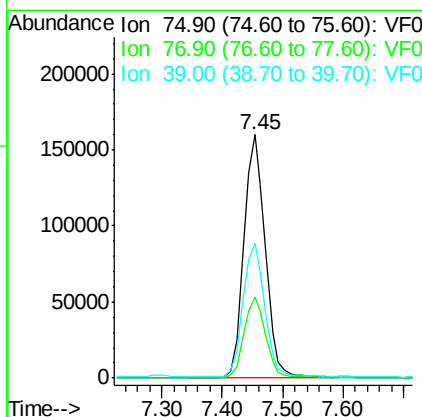
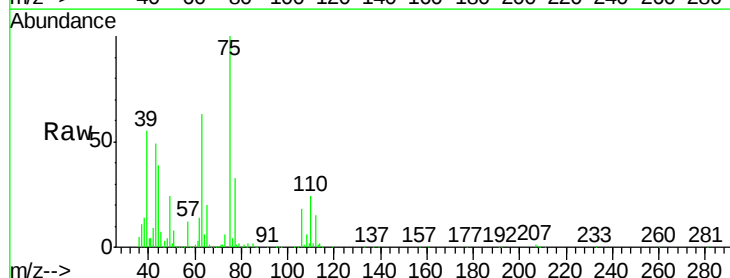
Manual Integrations
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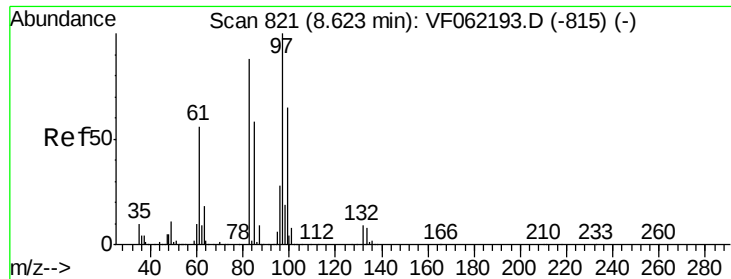
MMDadoda
4/19/2019 11:10:55 AM



#54
cis-1,3-Dichloropropene
Concen: 48.448 ug/l
RT: 7.45 min Scan# 702
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.1	26.4	39.6
39	54.9	46.7	70.1





#55

1,1,2-Trichloroethane

Concen: 47.429 ug/l

RT: 8.63 min Scan# 821

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

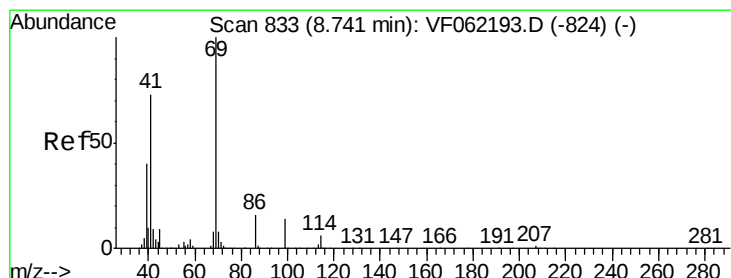
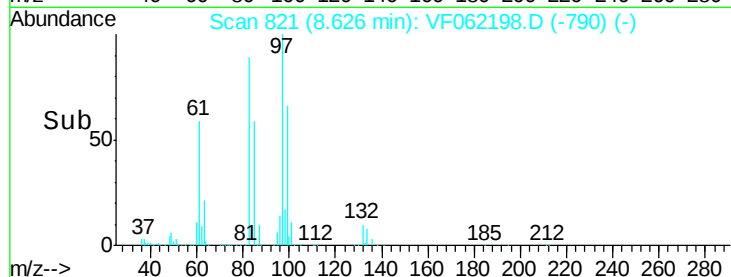
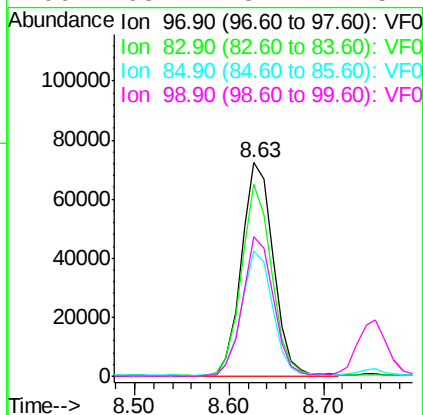
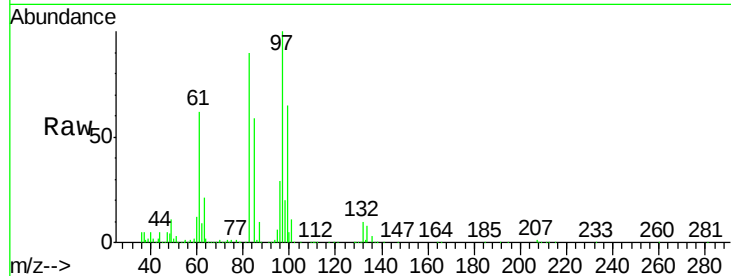
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	168444
Ion	Ratio	Lower	Upper
97	100		
83	89.4	70.2	105.2
85	58.7	46.2	69.4
99	65.4	52.2	78.4

Manual Integrations
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MMDadoda
4/19/2019 11:10:55 AM



#56

Ethyl methacrylate

Concen: 48.072 ug/l

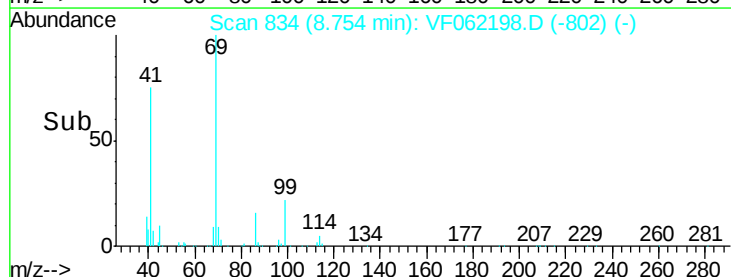
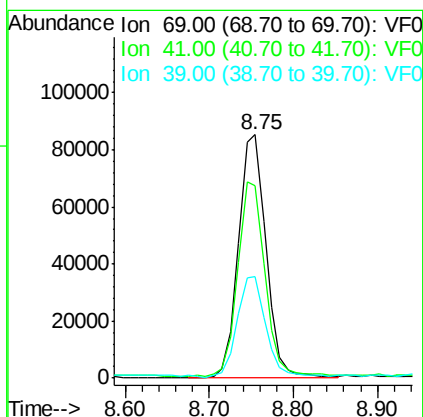
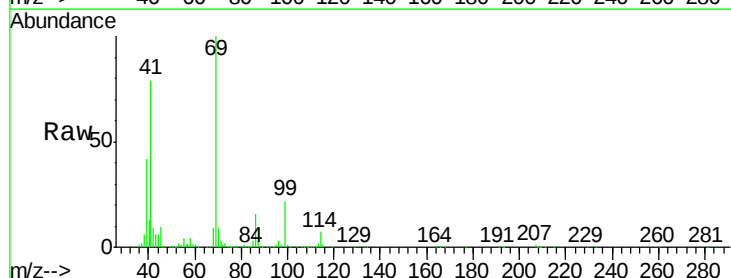
RT: 8.75 min Scan# 834

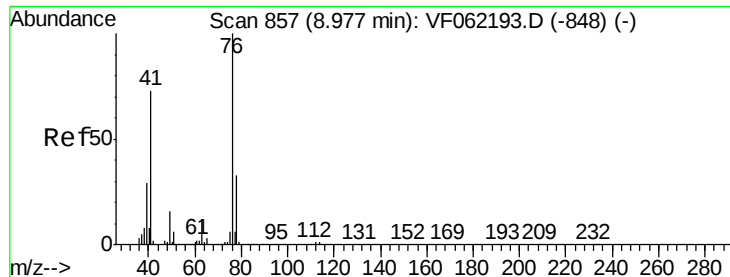
Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion:	69	Resp:	194109
Ion	Ratio	Lower	Upper
69	100		
41	79.1	61.5	92.3
39	45.0	33.3	49.9





#57

1,3-Dichloropropane

Concen: 48.959 ug/l

RT: 8.99 min Scan# 858

Delta R.T. 0.01 min

Lab File: VF062198.D

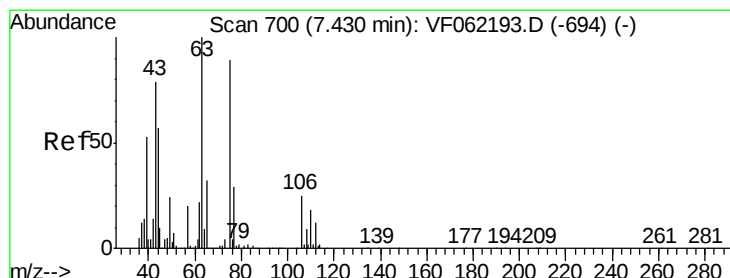
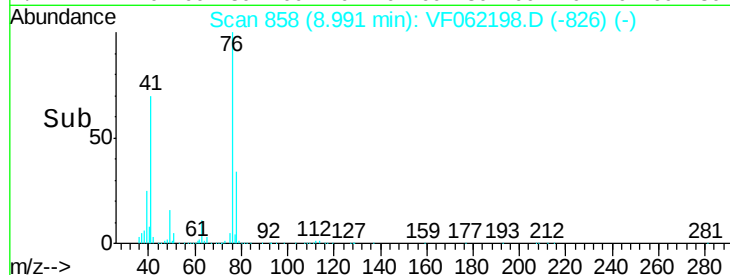
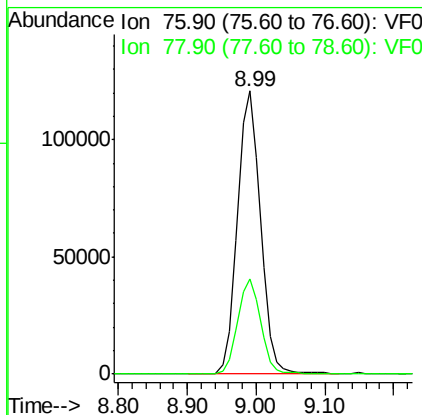
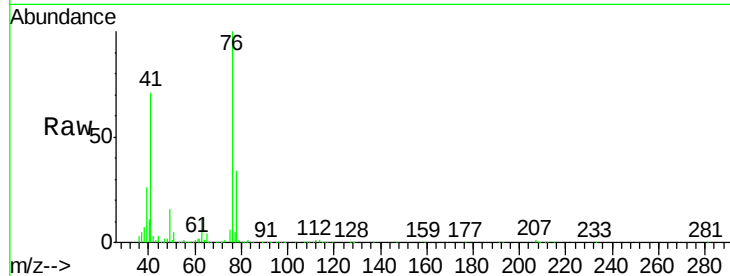
Acq: 18 Apr 2019 11:04

Tot Ion	Ratio	Lower	Upper
76	100		
78	33.9	26.5	39.7

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

MMDadoda
4/19/2019 11:10:55 AM



#58

2-Chloroethyl Vinyl ether

Concen: 246.943 ug/l

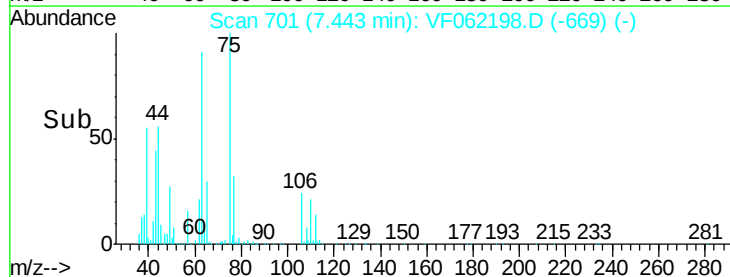
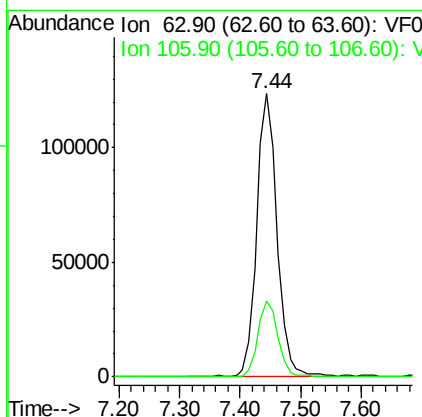
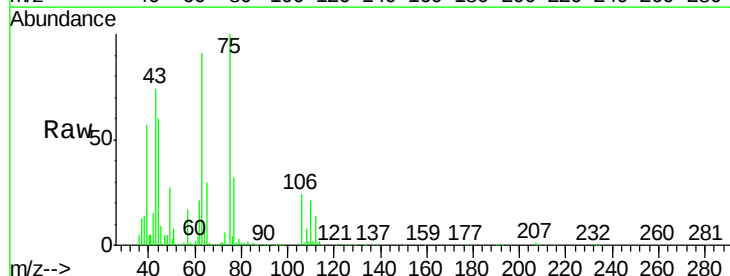
RT: 7.44 min Scan# 701

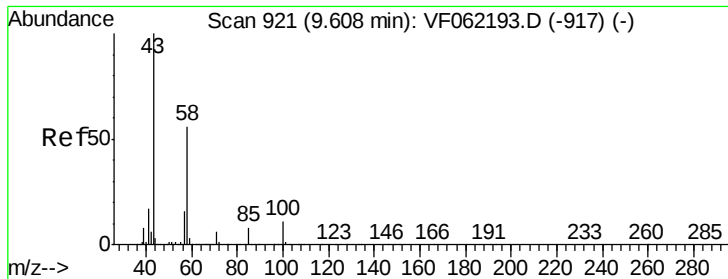
Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.4	32.0





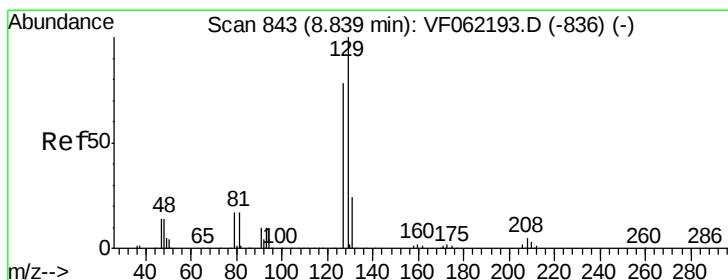
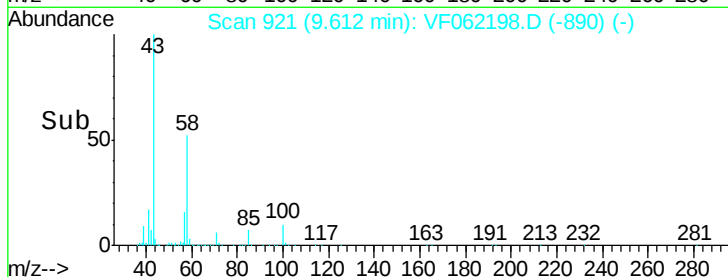
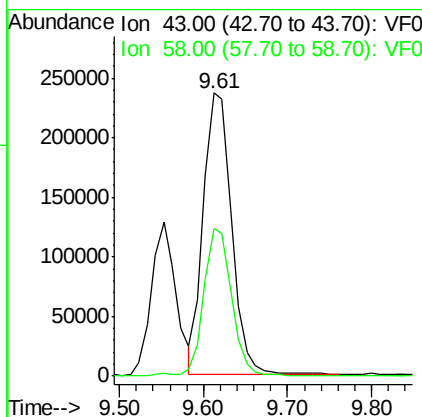
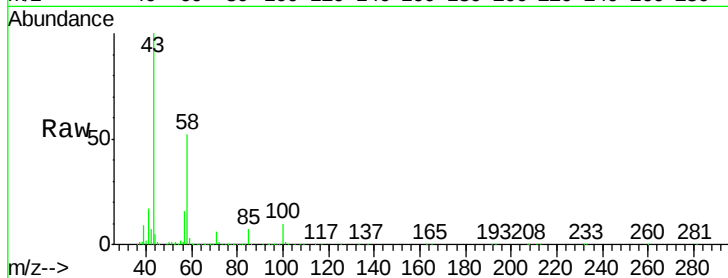
#59
2-Hexanone
Concen: 260.820 ug/l
RT: 9.61 min Scan# 921
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 550535
Ion Ratio Lower Upper
43 100
58 52.3 24.6 74.0

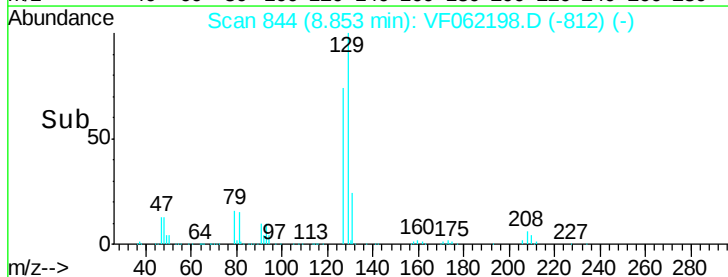
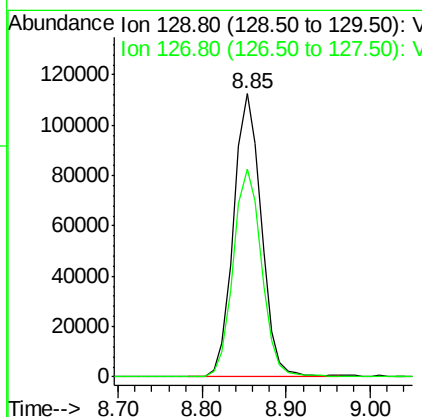
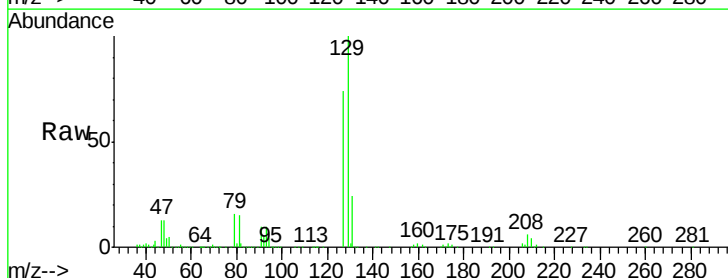
Manual Integrations
APPROVED

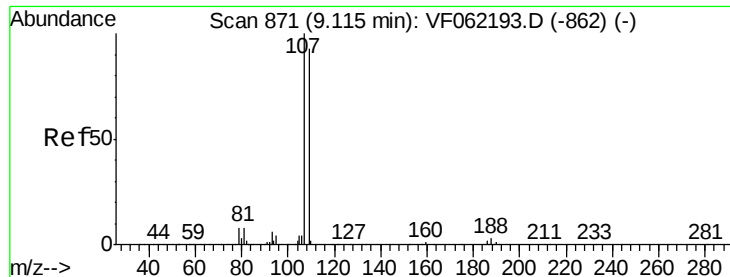
MMDadoda
4/19/2019 11:10:55 AM



#60
Dibromochloromethane
Concen: 49.068 ug/l
RT: 8.85 min Scan# 844
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion: 129 Resp: 259167
Ion Ratio Lower Upper
129 100
127 75.0 39.0 117.0





#61

1,2-Dibromoethane

Concen: 47.651 ug/l

RT: 9.13 min Scan# 872

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 107 Resp: 190661

Ion Ratio Lower Upper

107 100

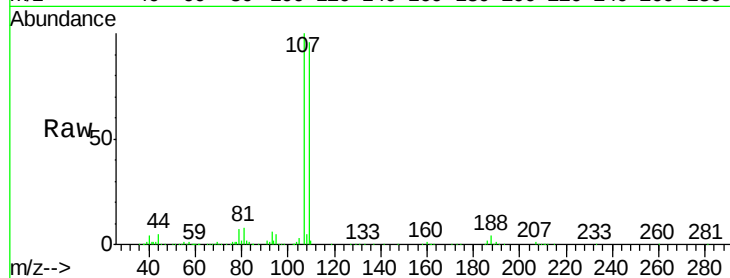
109 95.2 74.3 111.5

Manual Integrations

APPROVED

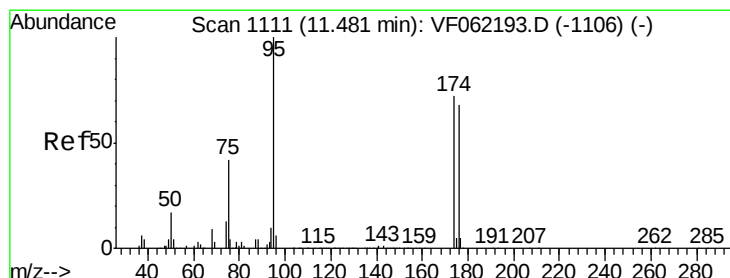
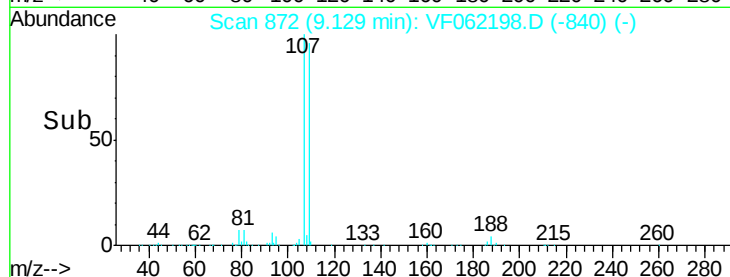
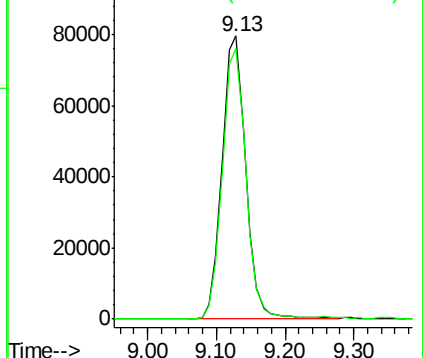
MMDadoda

4/19/2019 11:10:55 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 52.752 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

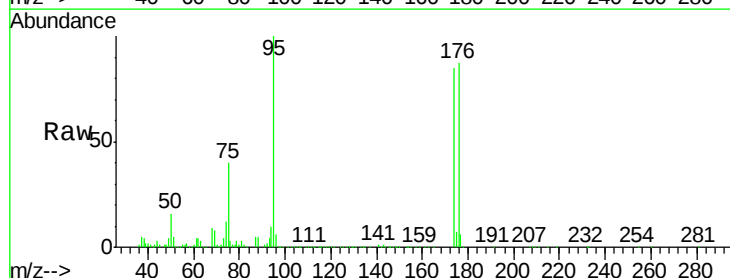
Tgt Ion: 95 Resp: 343653

Ion Ratio Lower Upper

95 100

174 81.8 0.0 159.4

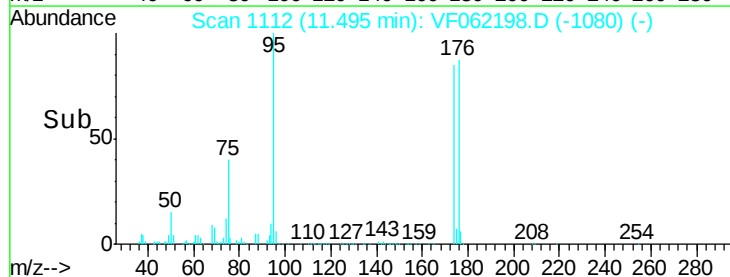
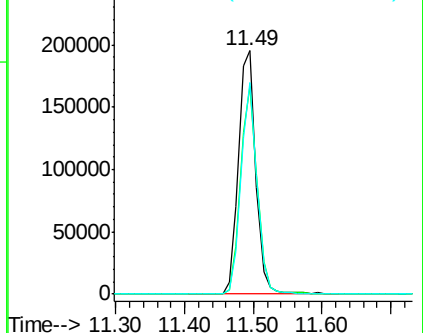
176 80.9 0.0 155.4

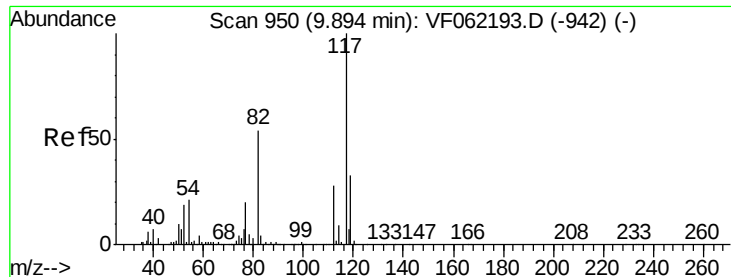


Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





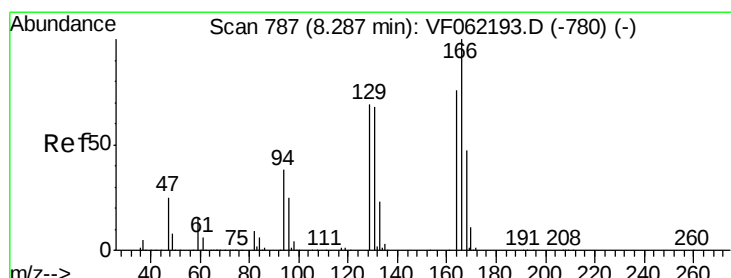
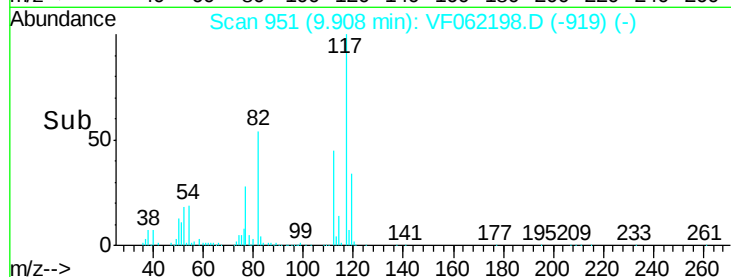
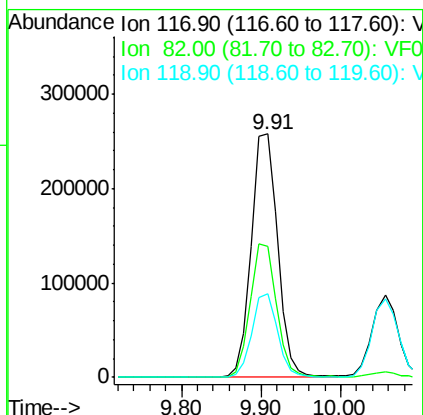
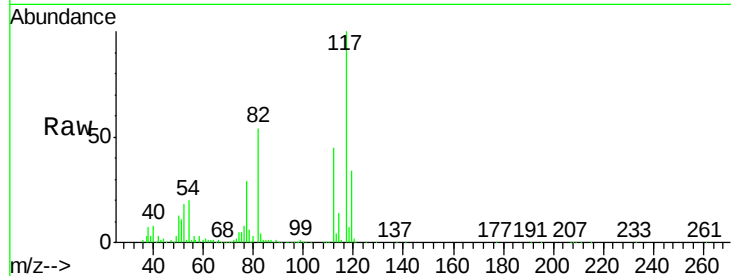
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
117	100	586570		
82	53.8		43.2	64.8
119	34.3		26.2	39.4

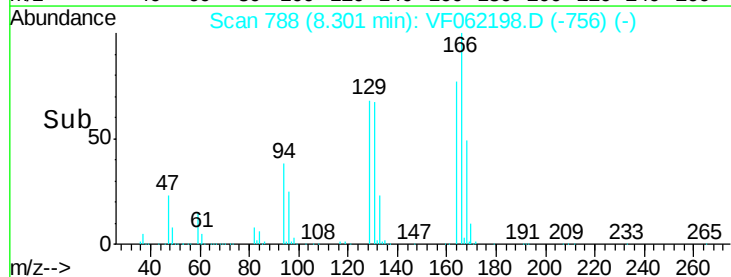
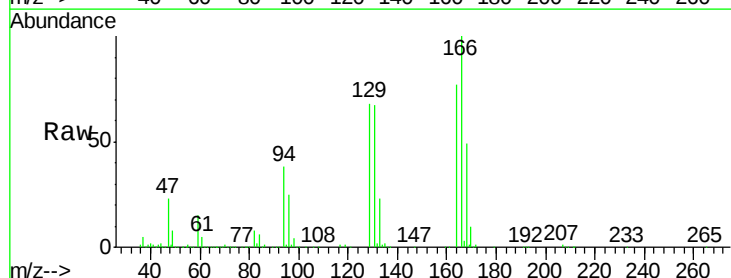
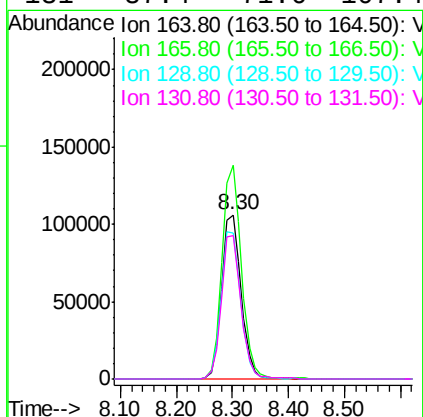
Manual Integrations
APPROVED

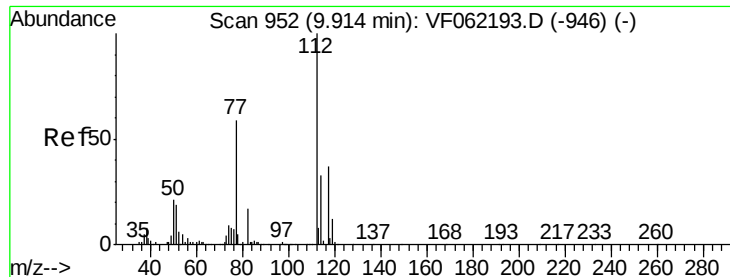
MMDadoda
4/19/2019 11:10:55 AM



#64
Tetrachloroethene
Concen: 49.157 ug/l
RT: 8.30 min Scan# 788
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	260288		
166	130.1		104.7	157.1
129	88.6		72.6	109.0
131	87.4		71.6	107.4





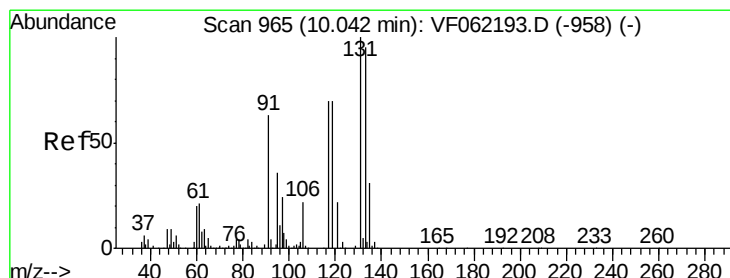
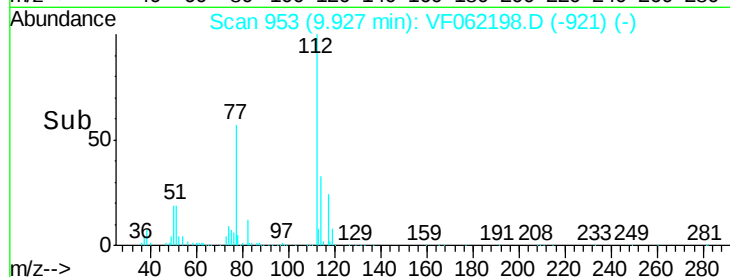
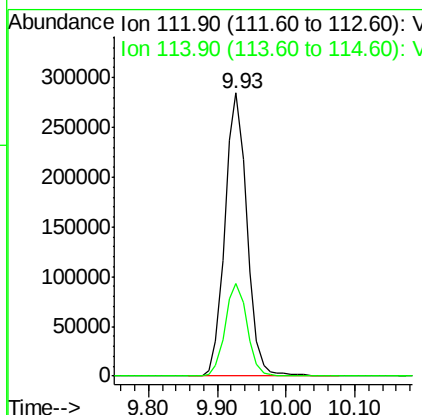
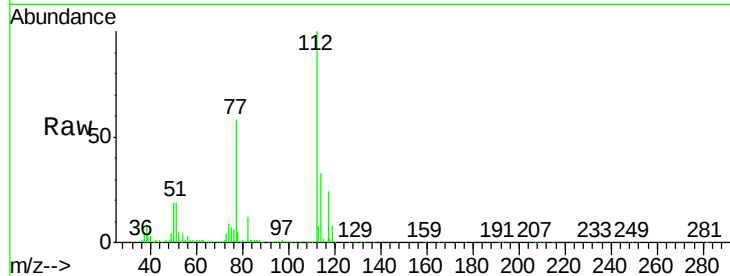
#65
Chlorobenzene
Concen: 50.542 ug/l
RT: 9.93 min Scan# 953
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:112 Resp: 632149
Ion Ratio Lower Upper
112 100
114 32.8 26.1 39.1

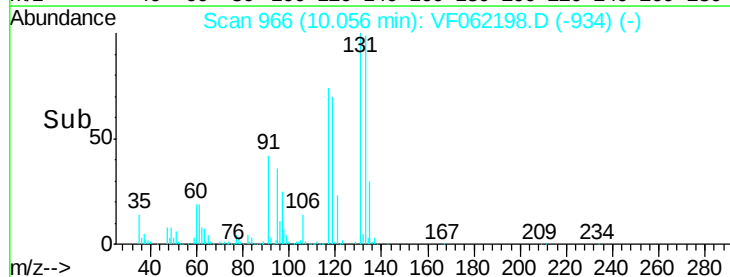
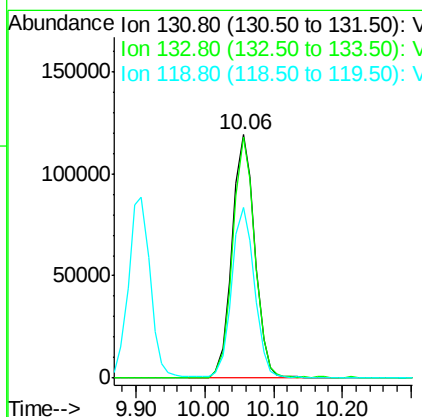
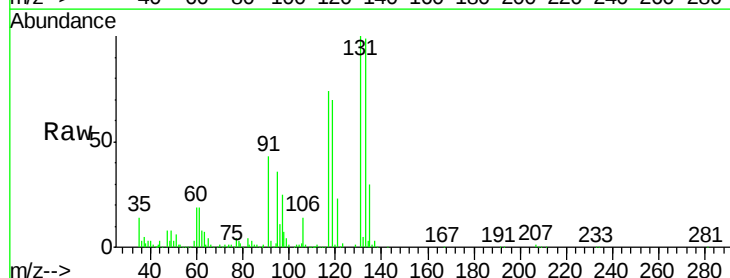
Manual Integrations
APPROVED

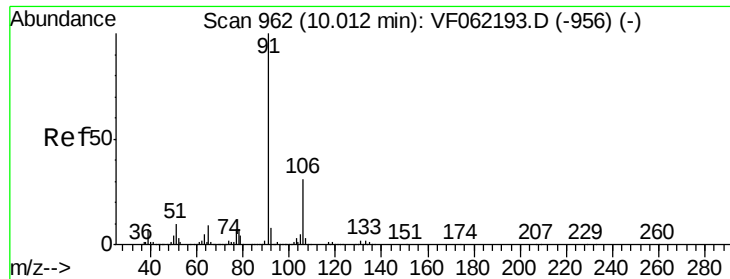
MMDadoda
4/19/2019 11:10:55 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 46.456 ug/l
RT: 10.06 min Scan# 966
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion:131 Resp: 272102
Ion Ratio Lower Upper
131 100
133 96.6 47.7 143.1
119 70.1 34.6 103.9





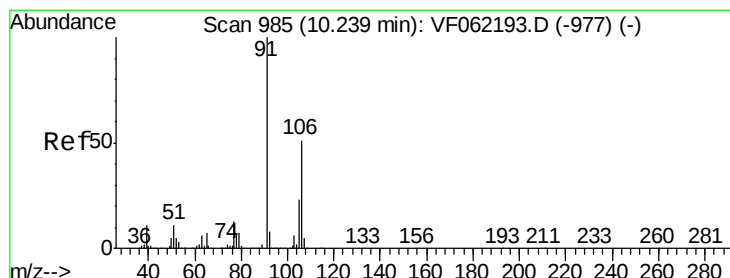
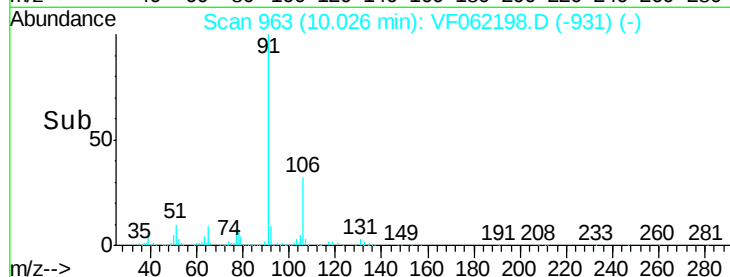
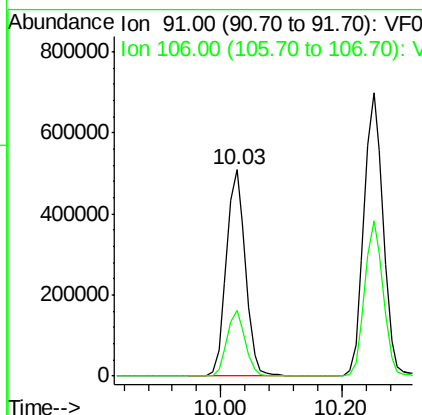
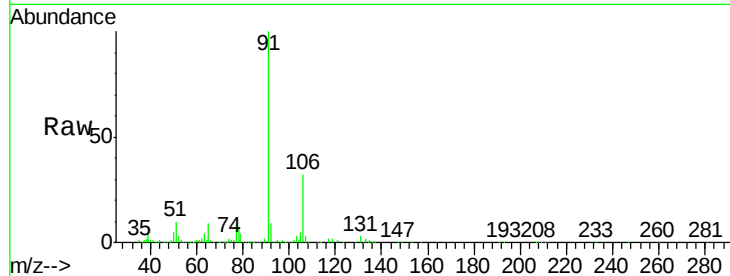
#67
Ethyl Benzene
Concen: 49.008 ug/l
RT: 10.03 min Scan# 963
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 91 Resp: 1114607
Ion Ratio Lower Upper
91 100
106 31.9 24.9 37.3

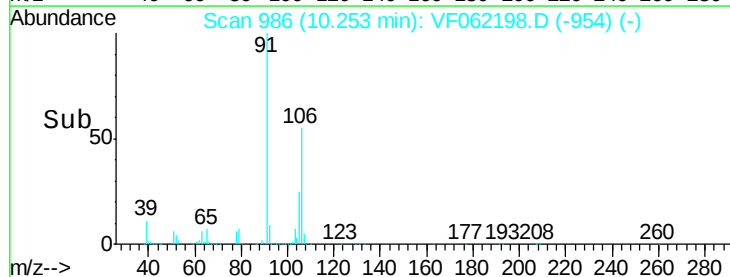
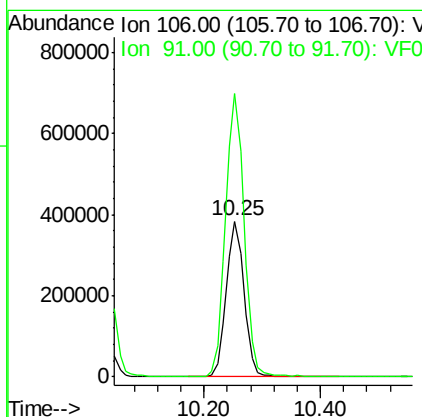
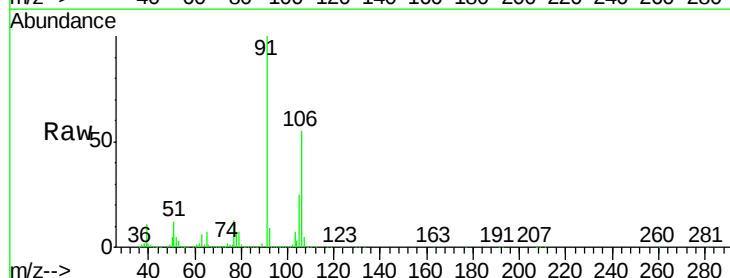
Manual Integrations
APPROVED

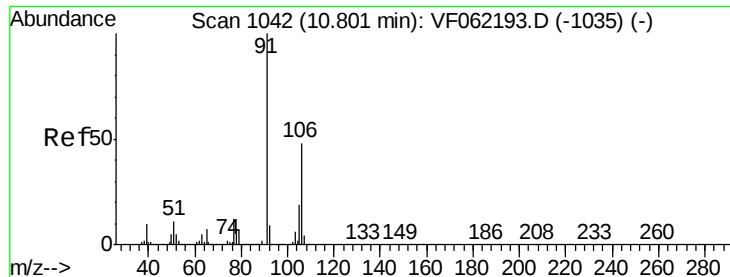
MMDadoda
4/19/2019 11:10:55 AM



#68
m/p-Xylenes
Concen: 97.543 ug/l
RT: 10.25 min Scan# 986
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion: 106 Resp: 816662
Ion Ratio Lower Upper
106 100
91 190.0 159.1 238.7





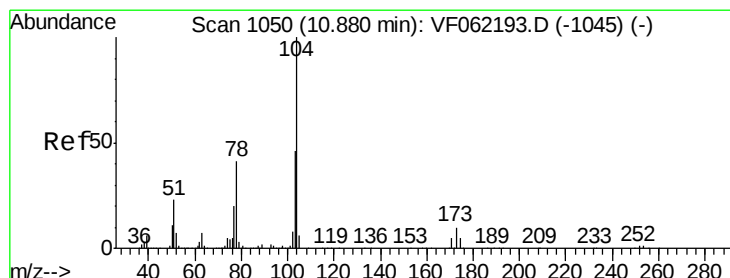
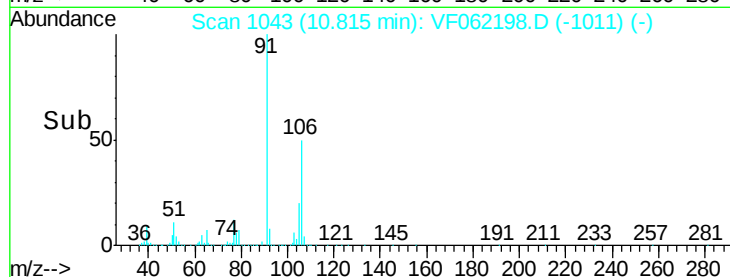
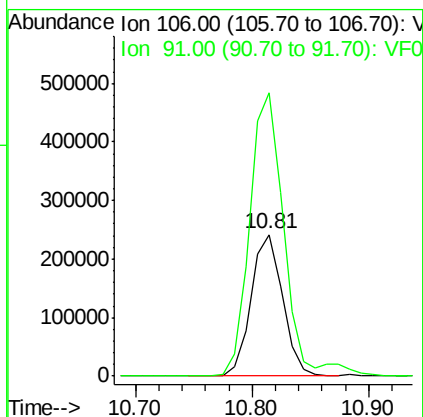
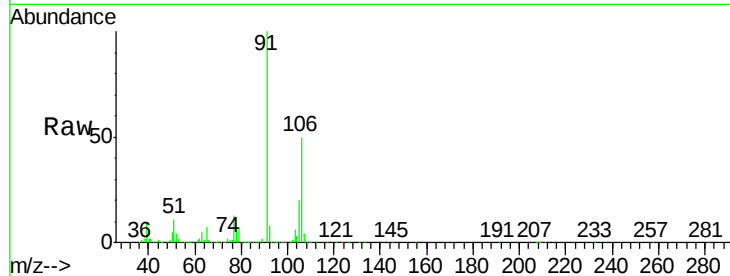
#69
o-Xylene
Concen: 48.847 ug/l
RT: 10.81 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleID :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	454057		
91	91	217.2	107.5	322.4	

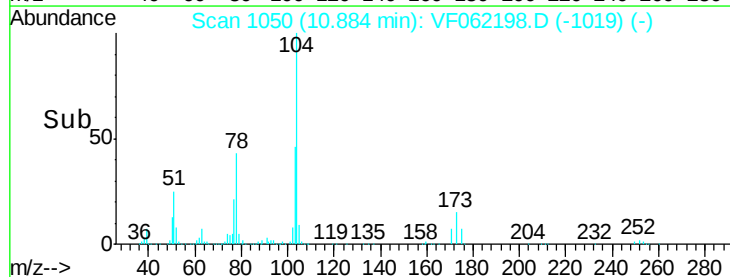
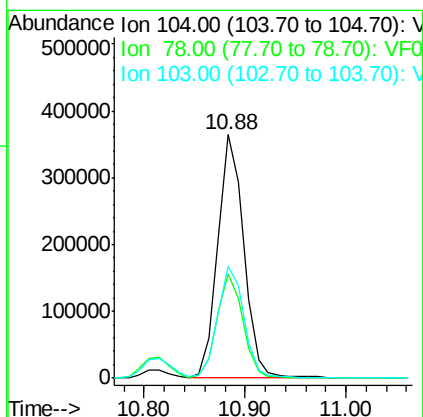
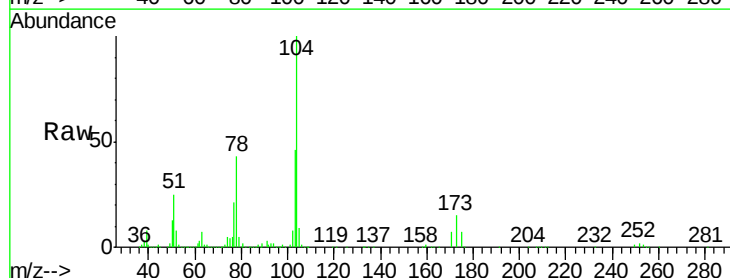
Manual Integrations
APPROVED

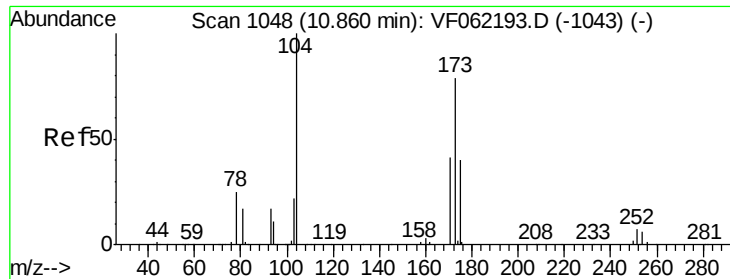
MMDadoda
4/19/2019 11:10:55 AM



#70
Styrene
Concen: 50.008 ug/l
RT: 10.88 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	655996		
78	78	42.9	34.5	51.7	
103	103	46.9	37.2	55.8	





#71

Bromoform

Concen: 48.656 ug/l

RT: 10.87 min Scan# 1049

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

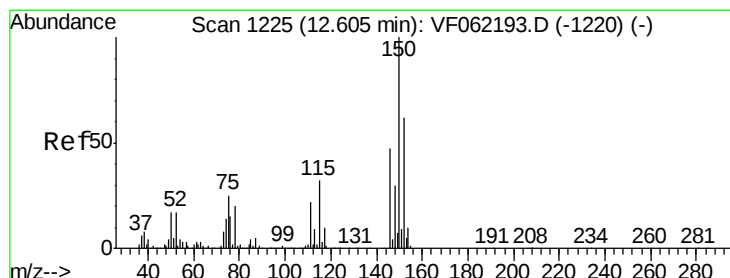
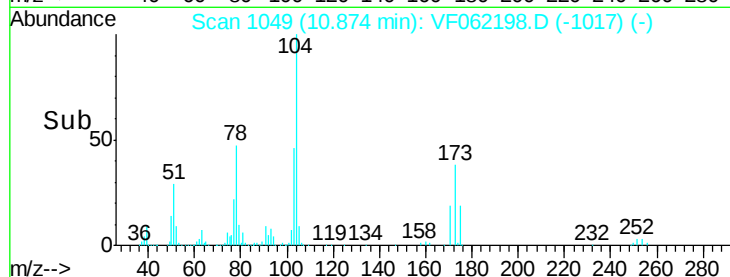
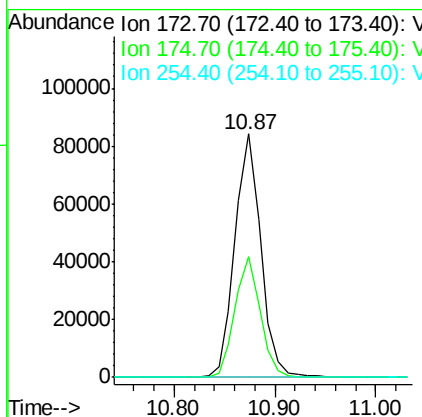
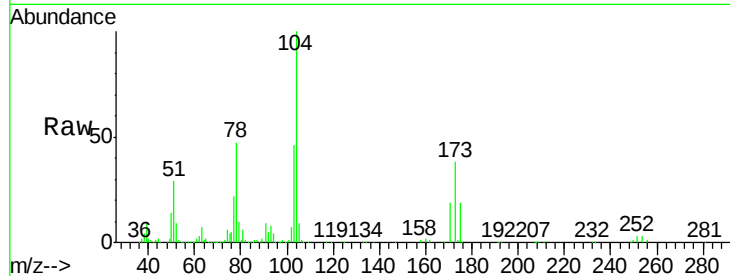
ClientSampleId :

VSTDCCC050

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.5	73.5
254	0.1	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
4/19/2019 11:10:55 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

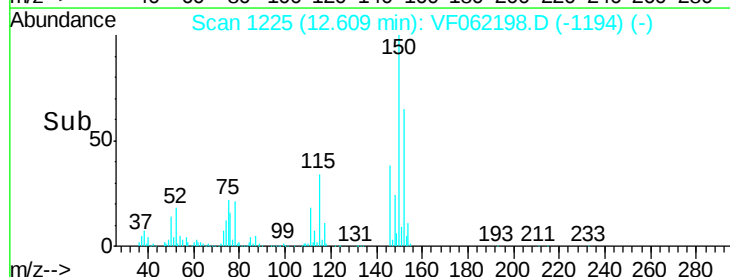
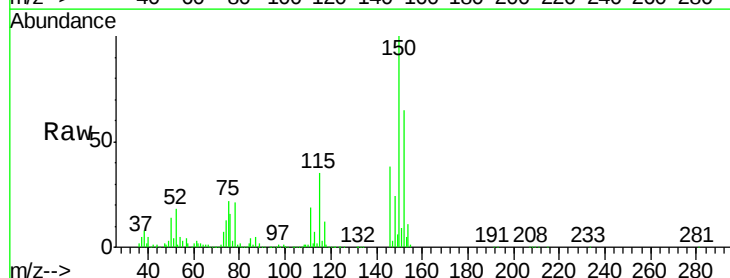
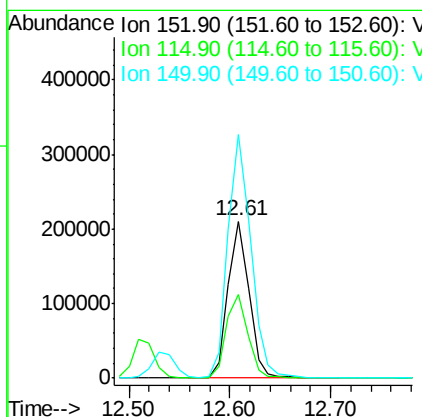
RT: 12.61 min Scan# 1225

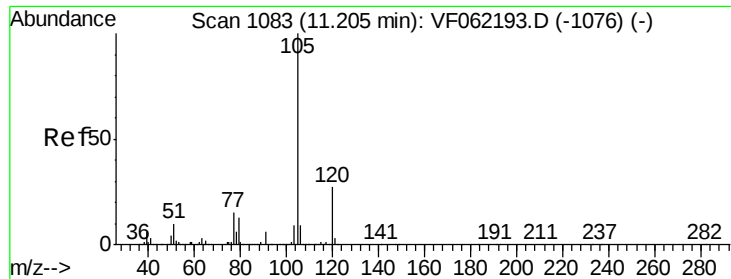
Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	27.8	83.3
150	169.3	0.0	341.8





#73

Isopropylbenzene

Concen: 49.433 ug/l

RT: 11.21 min Scan# 1083

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1300471

Ion Ratio Lower Upper

105 100

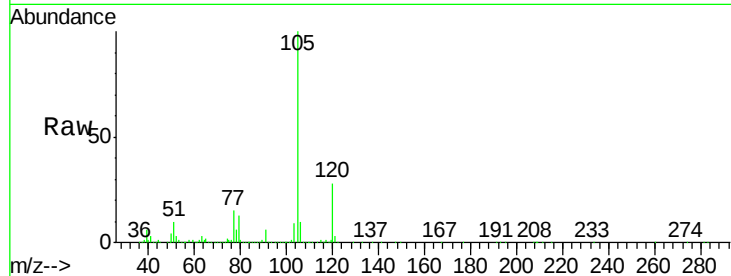
120 26.6 13.0 38.9

Manual Integrations

APPROVED

MMDadoda

4/19/2019 11:10:55 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

800000

600000

400000

200000

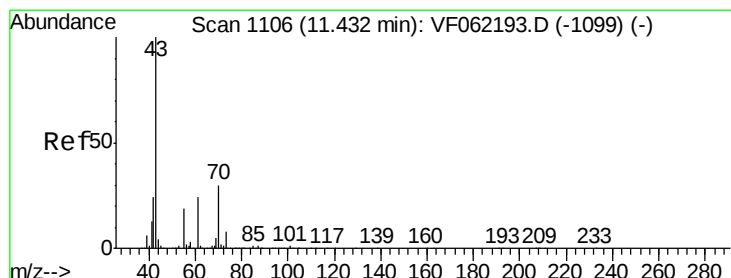
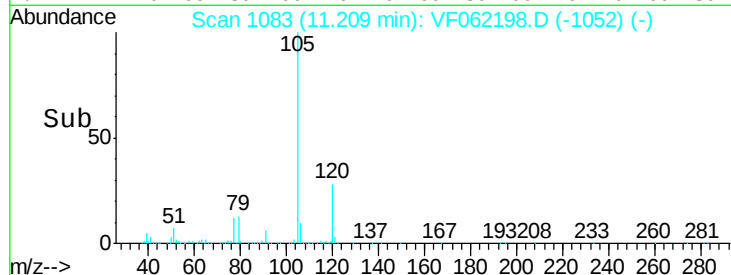
0

11.21

11.20

11.40

Time-->



#74

N-ethyl acetate

Concen: 54.126 ug/l

RT: 11.45 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion: 43 Resp: 336719

Ion Ratio Lower Upper

43 100

70 34.4 27.0 40.4

55 19.5 15.7 23.5

61 25.7 20.8 31.2

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

300000

200000

100000

0

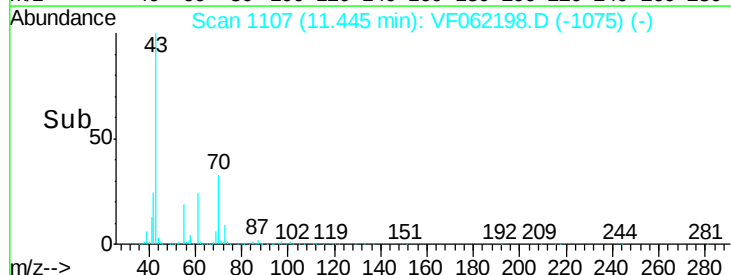
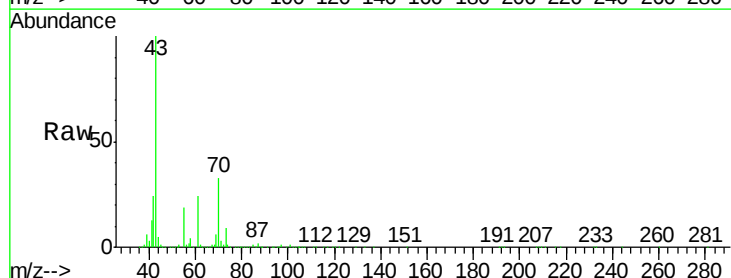
11.45

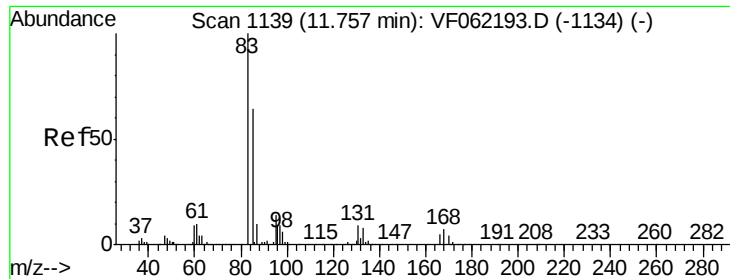
11.30

11.50

11.60

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 49.256 ug/l

RT: 11.76 min Scan# 1139

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

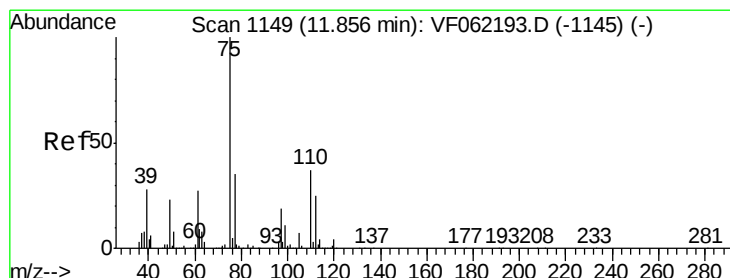
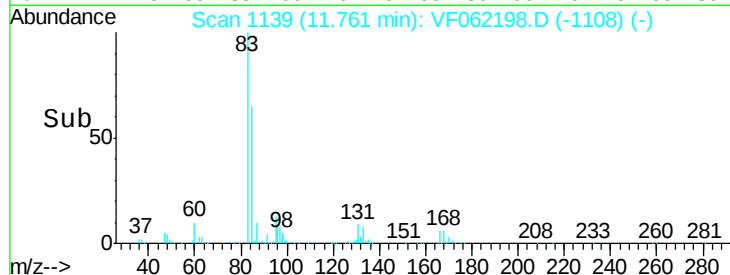
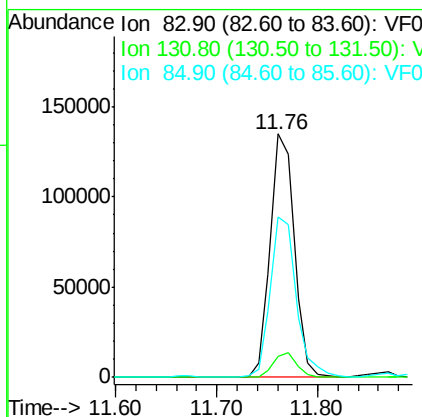
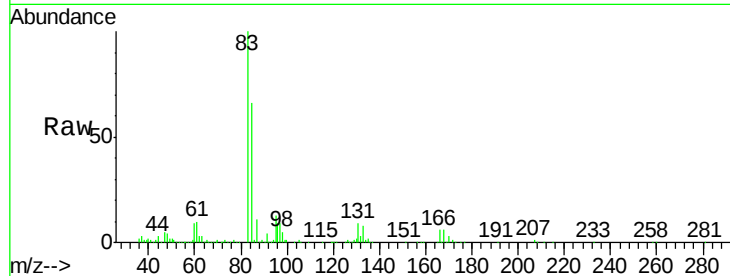
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	222848
Ion Ratio	Lower	Upper	
83	100		
131	10.1	4.5	13.5
85	71.2	34.7	104.1

Manual Integrations
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MMDadoda
4/19/2019 11:10:55 AM



#76

1,2,3-Trichloropropane

Concen: 48.217 ug/l

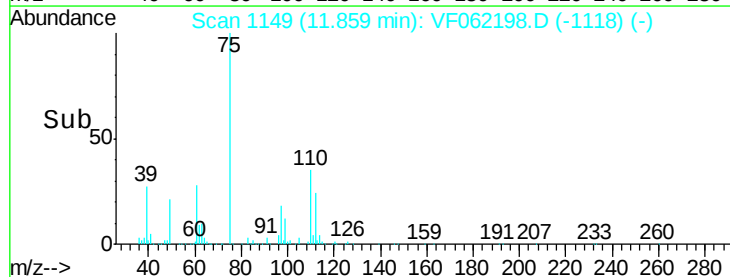
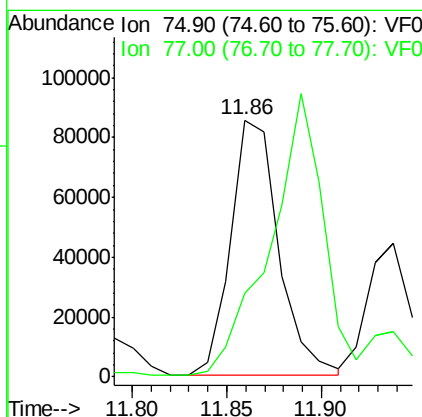
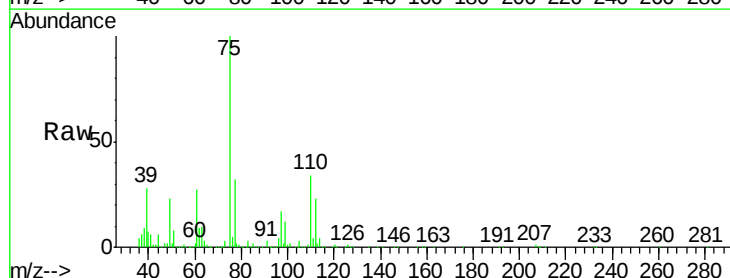
RT: 11.86 min Scan# 1149

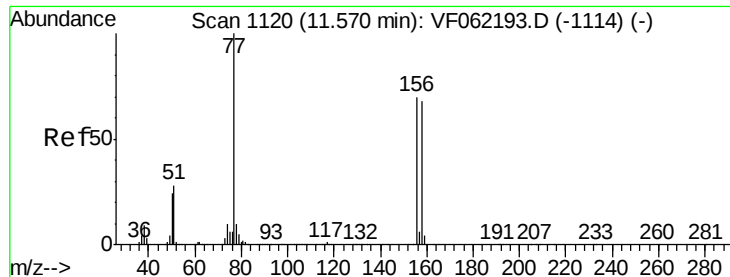
Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion:	75	Resp:	150087
Ion Ratio	Lower	Upper	
75	100		
77	0.0	7.4	22.2#





#77

Bromobenzene

Concen: 51.416 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

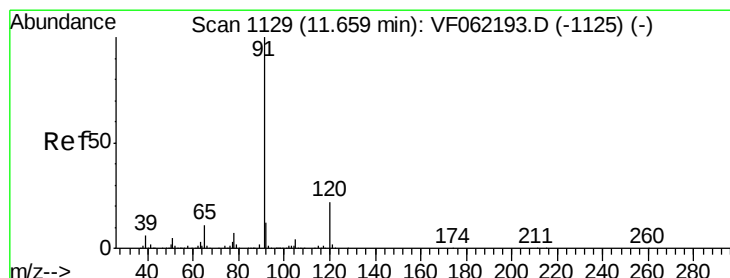
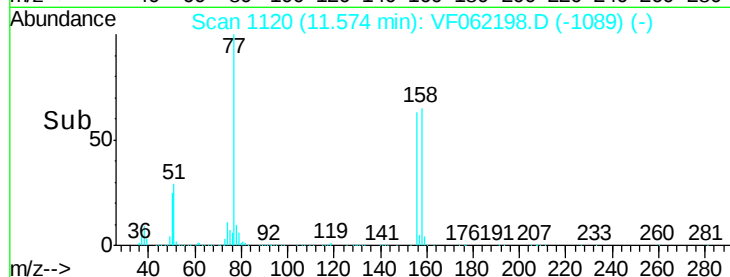
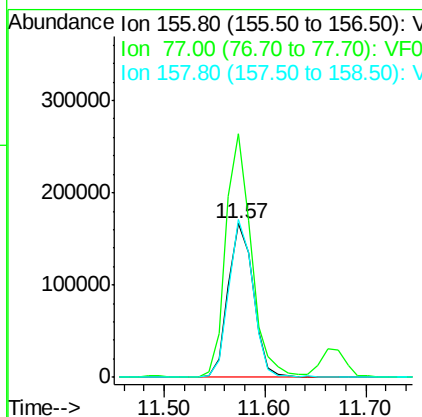
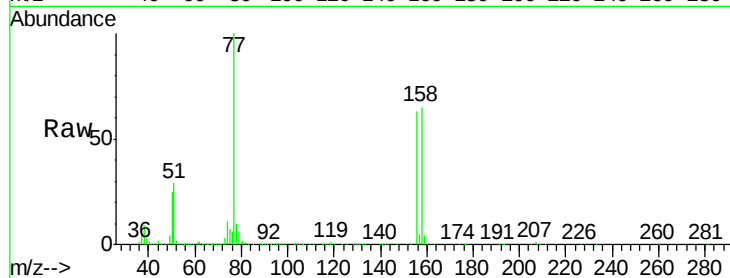
ClientSampleId :

VSTDCCC050

Tot Ion:	156	Resp:	289765
Ion Ratio	Lower	Upper	
156	100		
77	158.5	80.9	242.7
158	98.7	49.8	149.4

Manual Integrations
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MMDadoda
4/19/2019 11:10:55 AM



#78

n-propylbenzene

Concen: 48.961 ug/l

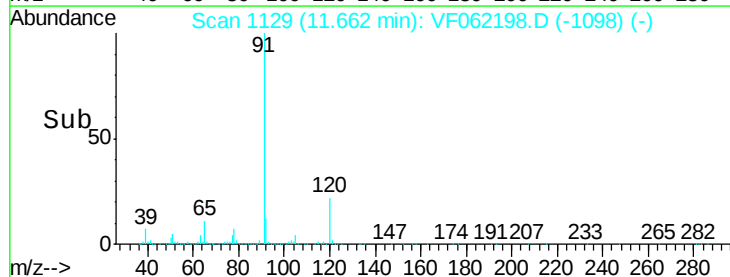
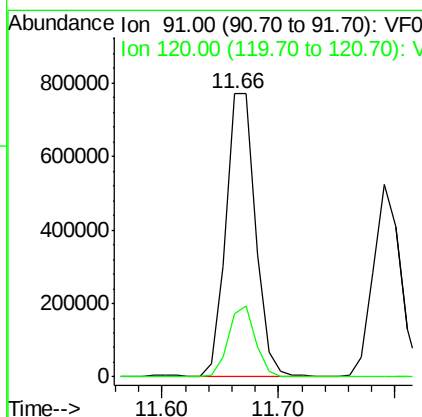
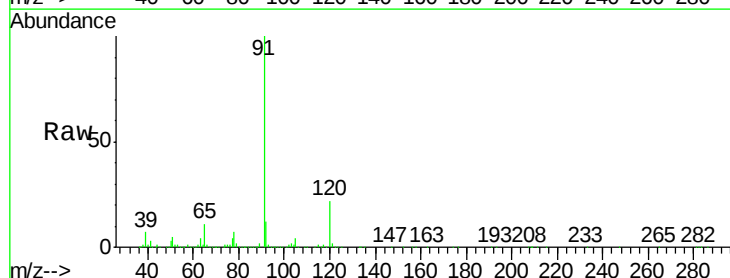
RT: 11.66 min Scan# 1129

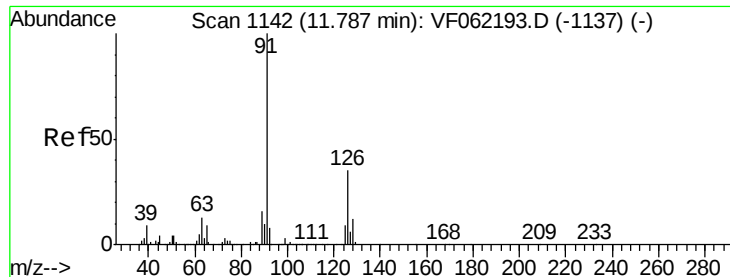
Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Tgt Ion:	91	Resp:	1358777
Ion Ratio	Lower	Upper	
91	100		
120	22.9	11.2	33.6





#79

2-Chlorotoluene

Concen: 50.039 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 842390

Ion Ratio Lower Upper

91 100

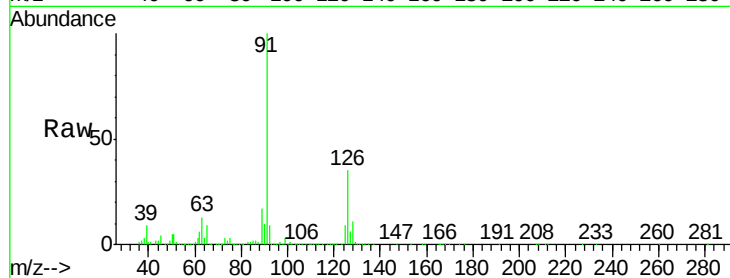
126 35.2 16.9 50.6

Manual Integrations

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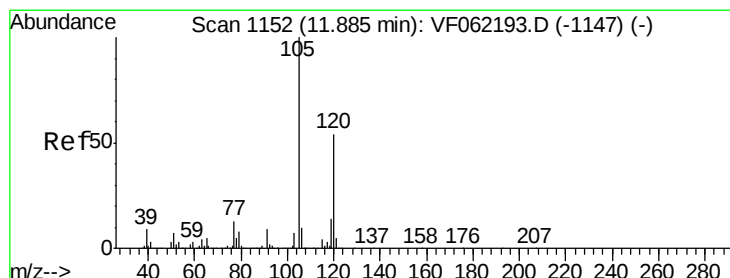
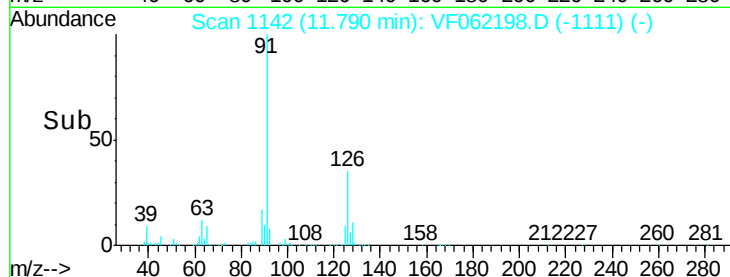
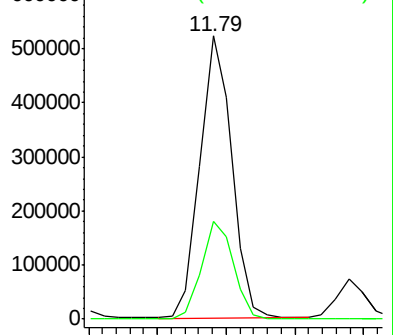
MMDadoda

4/19/2019 11:10:55 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 48.280 ug/l

RT: 11.89 min Scan# 1152

Delta R.T. 0.00 min

Lab File: VF062198.D

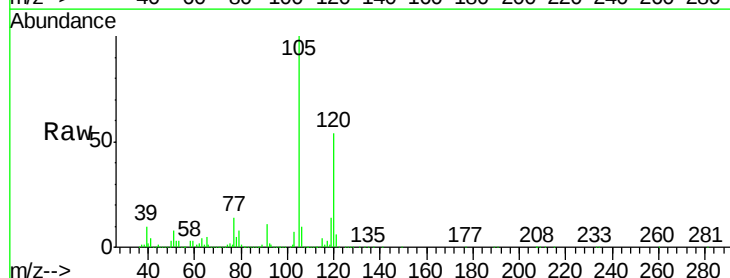
Acq: 18 Apr 2019 11:04

Tgt Ion:105 Resp: 1057881

Ion Ratio Lower Upper

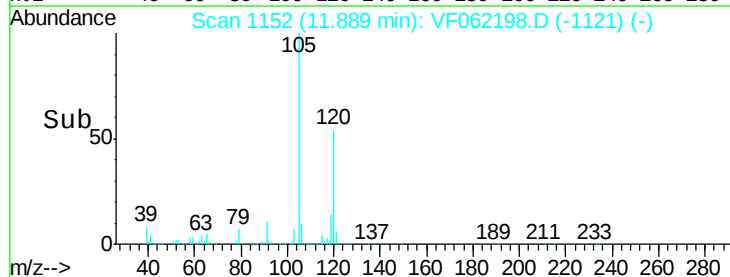
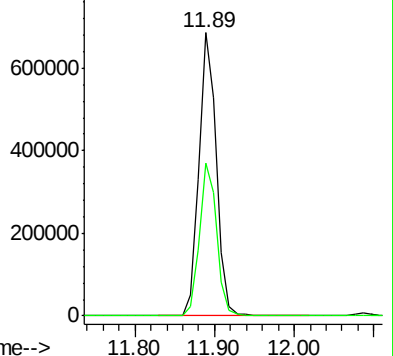
105 100

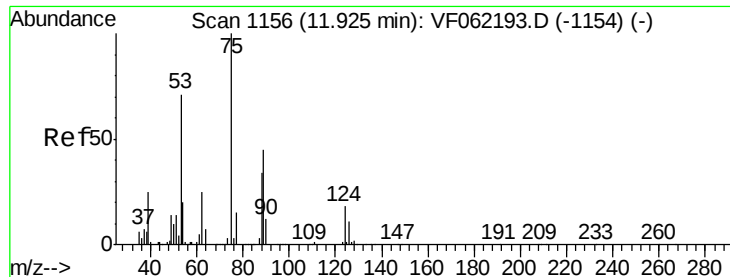
120 53.2 26.2 78.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 47.443 ug/l m

RT: 11.94 min Scan# 1157

Delta R.T. 0.01 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 75 Resp: 75315

Ion Ratio Lower Upper

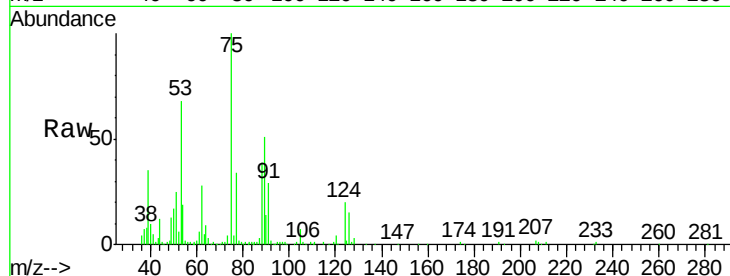
75 100

53 66.8 50.2 75.4

89 0.0 0.0 0.0

Manual Integrations
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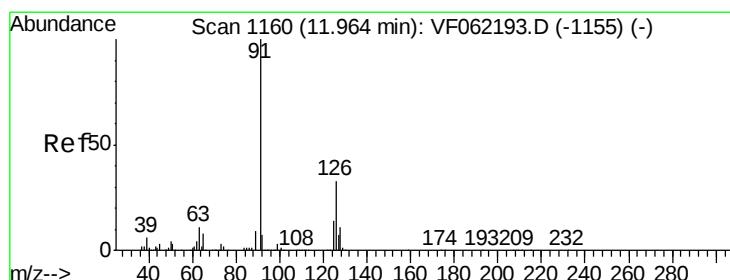
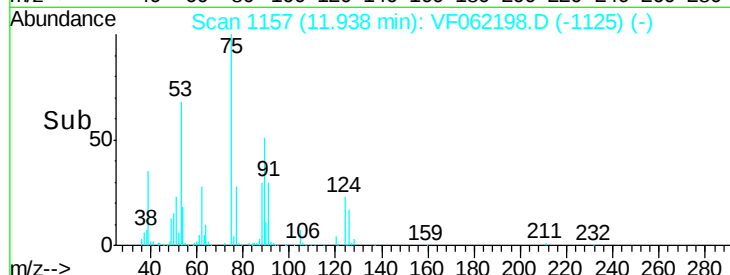
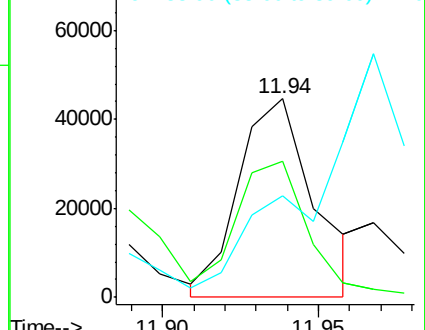
MMDadoda
4/19/2019 11:10:55 AM



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



#82

4-Chlorotoluene

Concen: 50.959 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VF062198.D

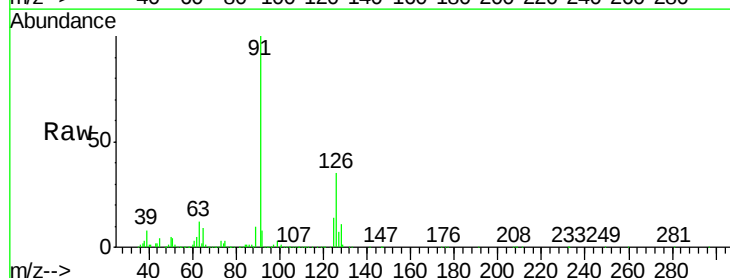
Acq: 18 Apr 2019 11:04

Tgt Ion: 91 Resp: 829066

Ion Ratio Lower Upper

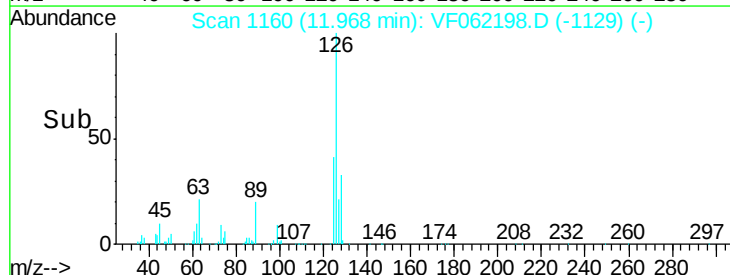
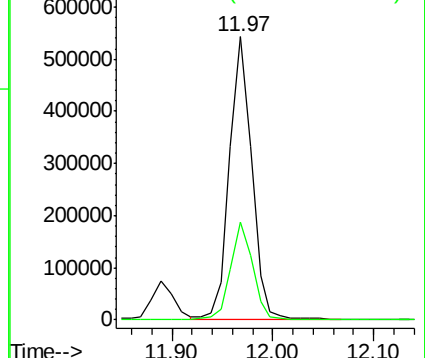
91 100

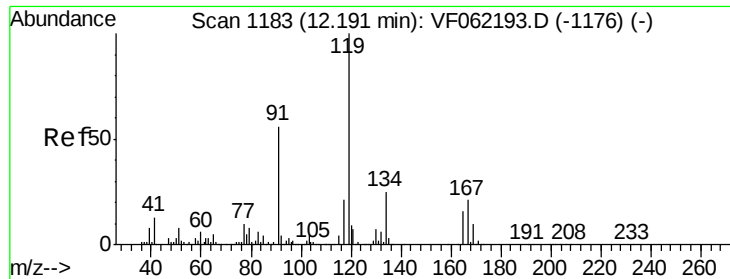
126 34.9 16.9 50.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V





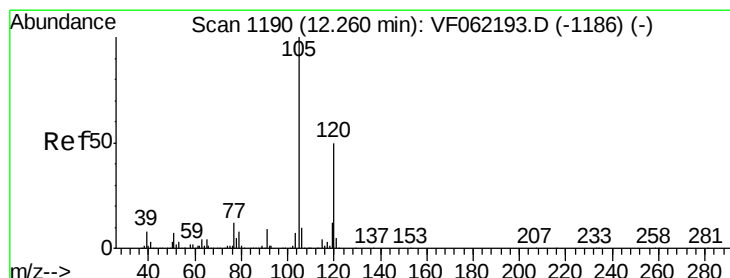
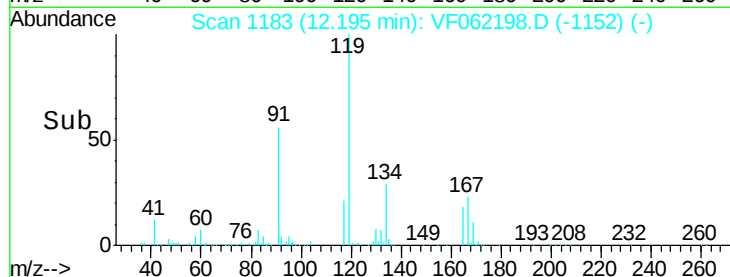
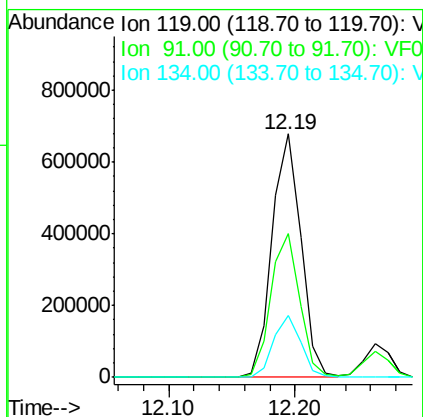
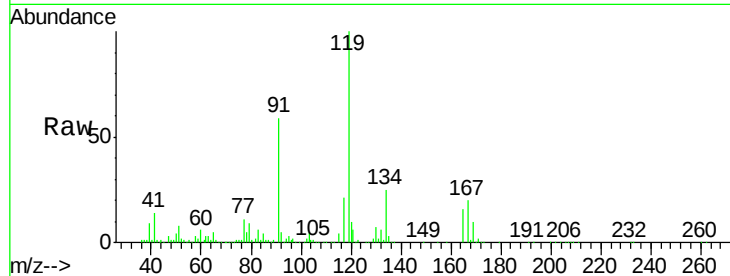
#83
tert-Butylbenzene
Concen: 47.994 ug/l
RT: 12.19 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:119 Resp: 1087490
Ion Ratio Lower Upper
119 100
91 58.2 29.4 88.2
134 24.3 11.8 35.3

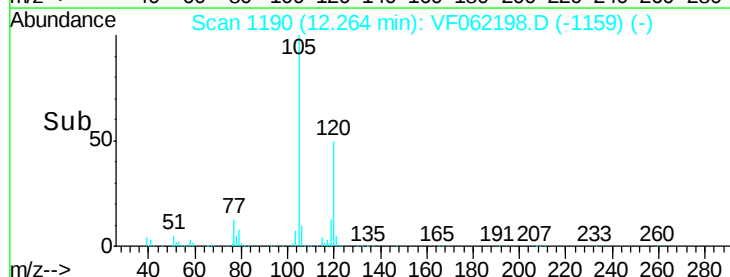
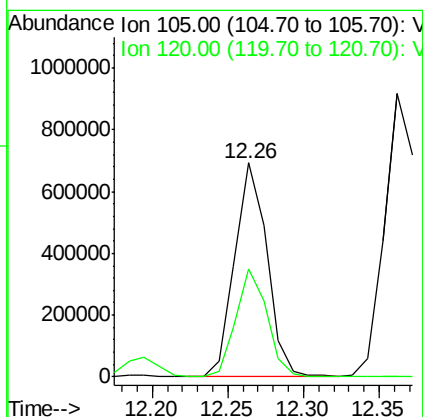
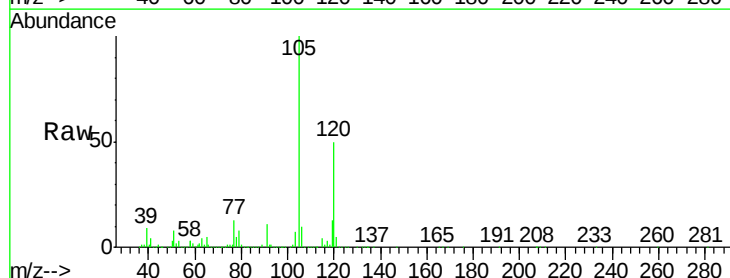
Manual Integrations
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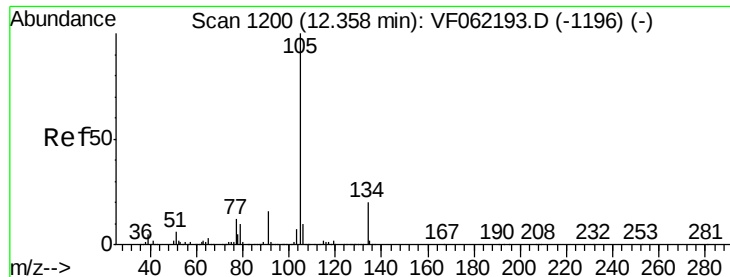
MMDadoda
4/19/2019 11:10:55 AM



#84
1,2,4-Trimethylbenzene
Concen: 48.529 ug/l
RT: 12.26 min Scan# 1190
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion:105 Resp: 1028980
Ion Ratio Lower Upper
105 100
120 48.9 24.0 72.0





#85

sec-Butylbenzene

Concen: 48.084 ug/l

RT: 12.36 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 1414499

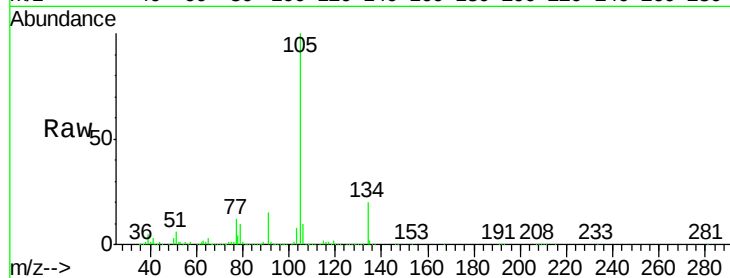
Ion Ratio Lower Upper

105 100

134 19.7 9.7 29.1

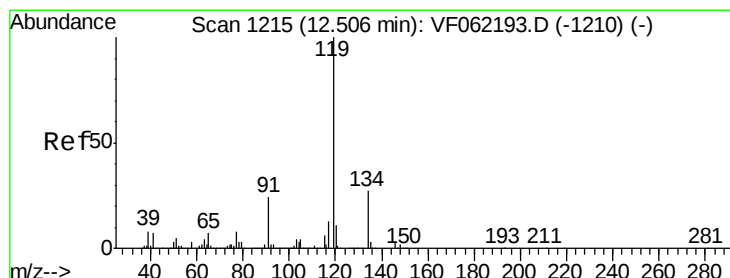
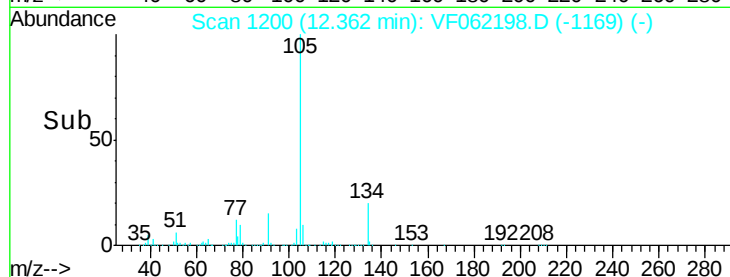
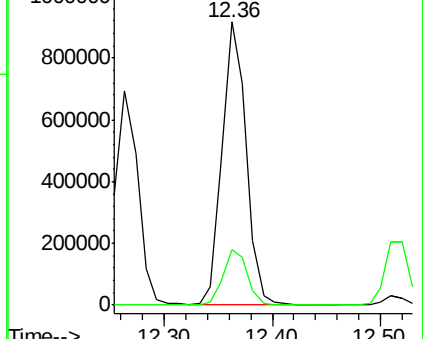
Manual Integrations
APPROVED

MMDadoda
4/19/2019 11:10:55 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 48.248 ug/l

RT: 12.51 min Scan# 1215

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

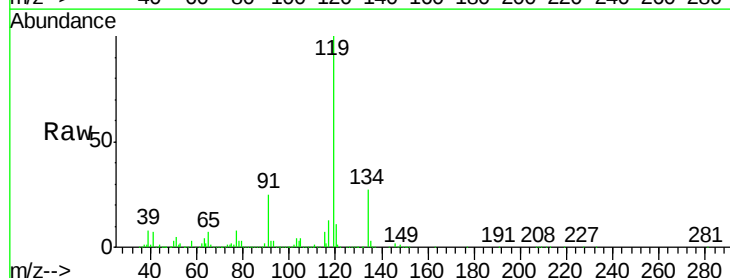
Tgt Ion:119 Resp: 1203981

Ion Ratio Lower Upper

119 100

134 26.7 13.2 39.5

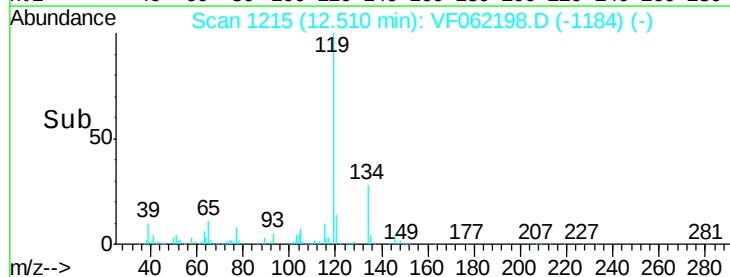
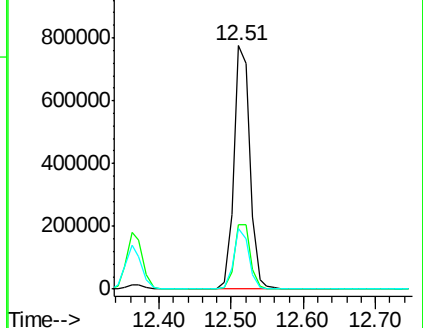
91 23.6 11.7 35.1

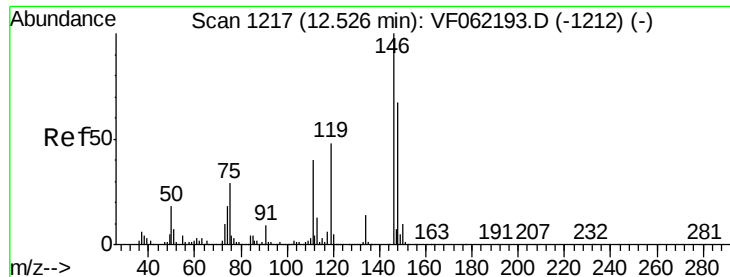


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





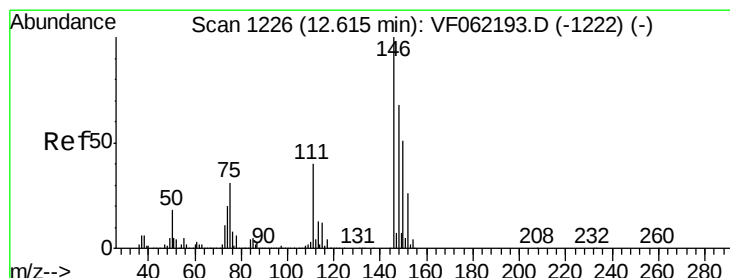
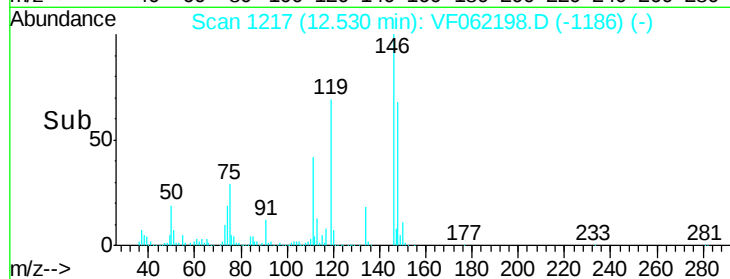
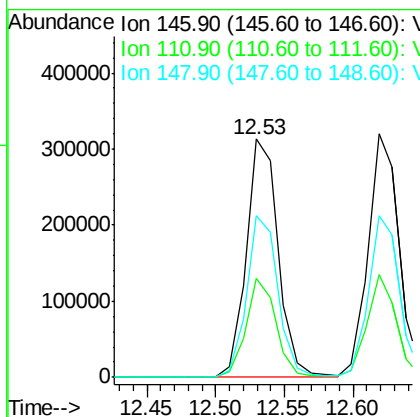
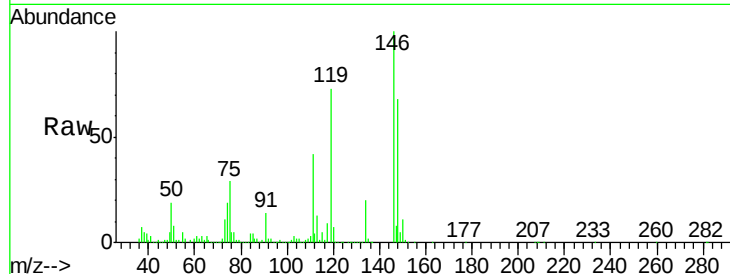
#87
 1,3-Dichlorobenzene
 Concen: 48.552 ug/l
 RT: 12.53 min Scan# 1217
 Delta R.T. 0.00 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.7	59.0
148	66.6	32.9	98.6

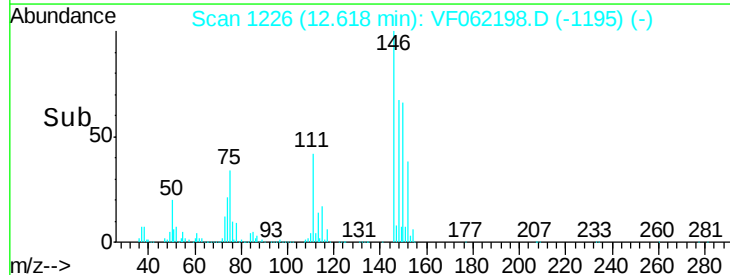
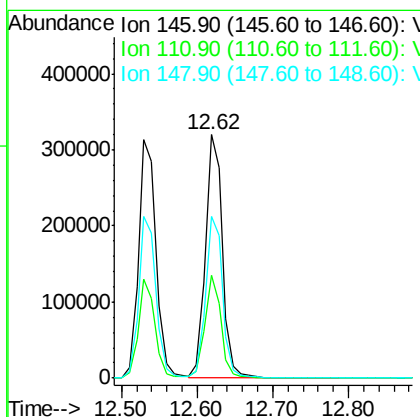
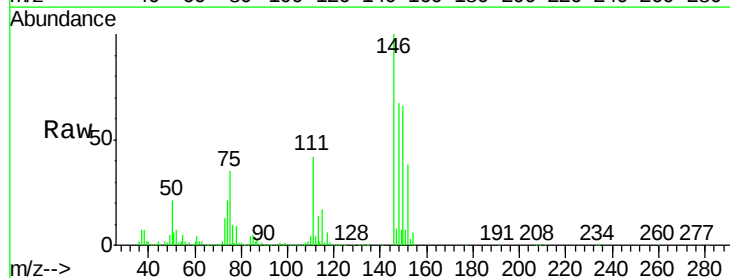
Manual Integrations
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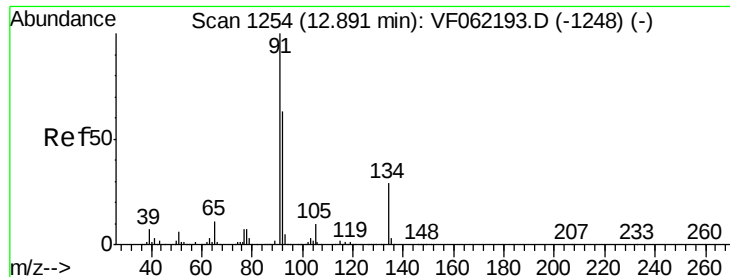
MMDadoda
 4/19/2019 11:10:55 AM



#88
 1,4-Dichlorobenzene
 Concen: 49.659 ug/l
 RT: 12.62 min Scan# 1226
 Delta R.T. 0.00 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.8	20.0	60.0
148	66.2	33.6	100.8





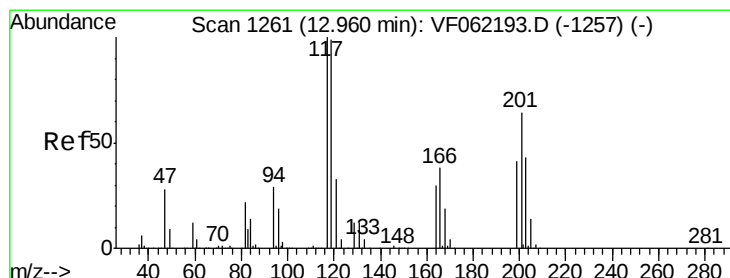
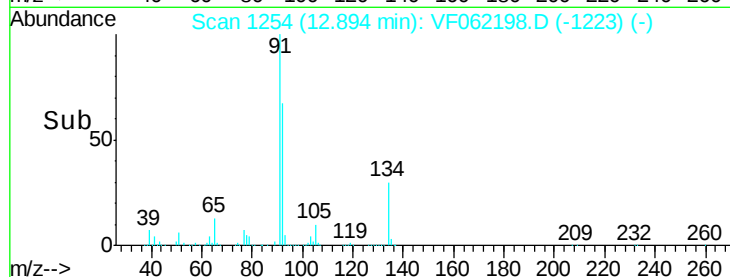
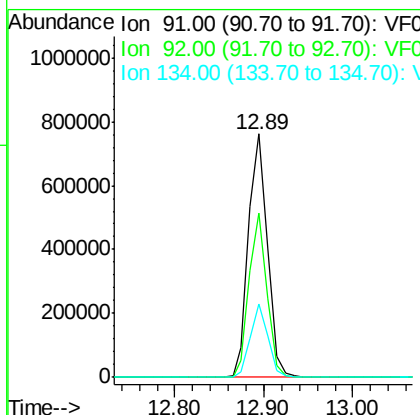
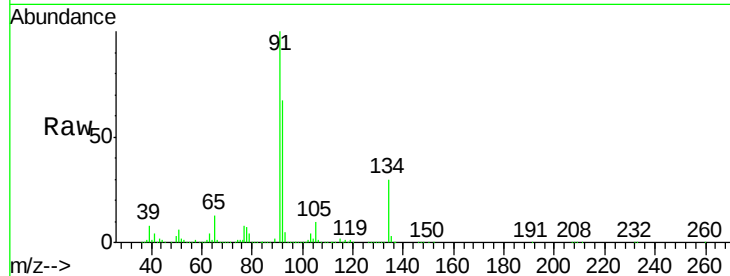
#89
n-Butylbenzene
Concen: 54.675 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	64.1	31.2	93.6
134	28.0	13.1	39.1

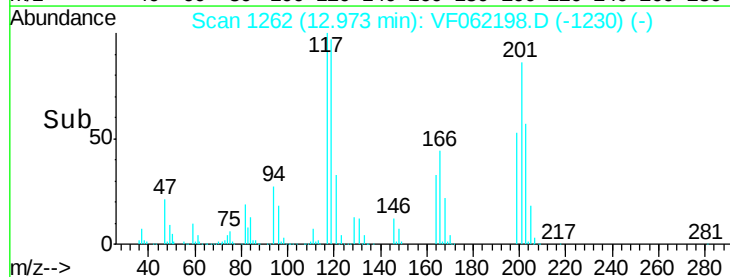
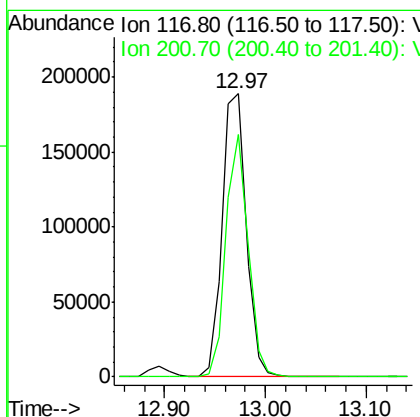
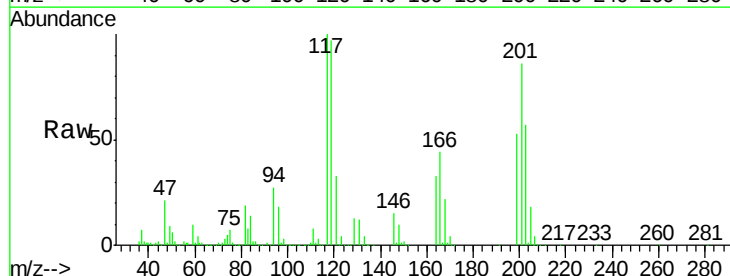
Manual Integrations
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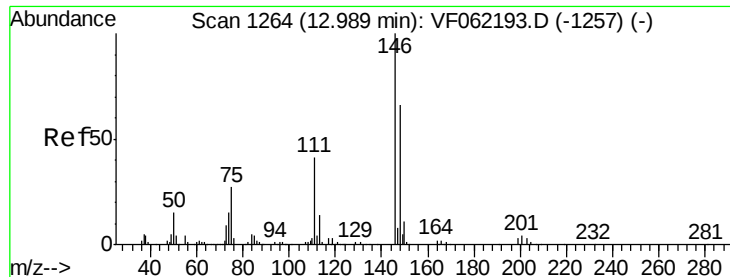
MMDadoda
4/19/2019 11:10:55 AM



#90
Hexachloroethane
Concen: 49.092 ug/l
RT: 12.97 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	78.7	37.7	113.1





#91

1,2-Dichlorobenzene

Concen: 48.411 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VF062198.D

Acq: 18 Apr 2019 11:04

Instrument :

MSVOA_F

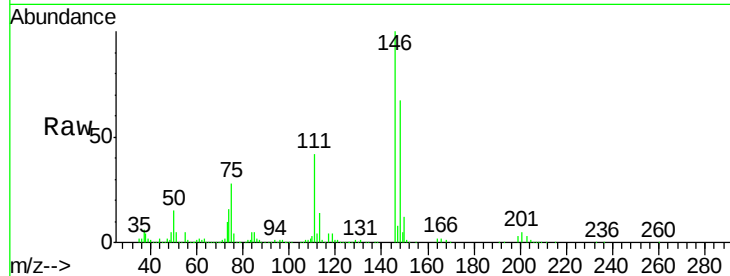
ClientSampleId :

VSTDCCC050

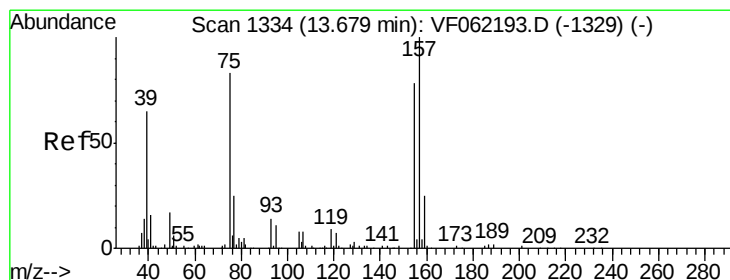
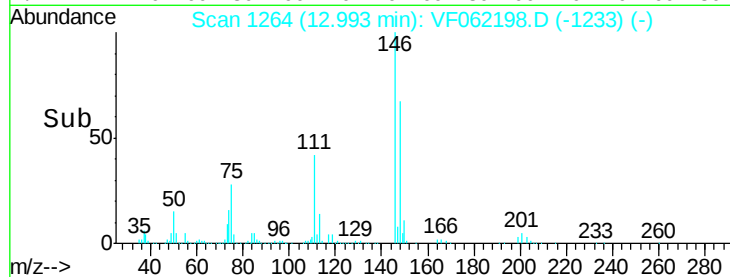
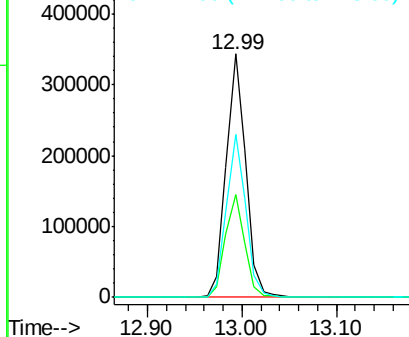
Tot Ion:	146	Resp:	488859
Ion Ratio	Lower	Upper	
146	100		
111	41.9	20.8	62.5
148	66.7	33.0	99.0

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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 44.525 ug/l

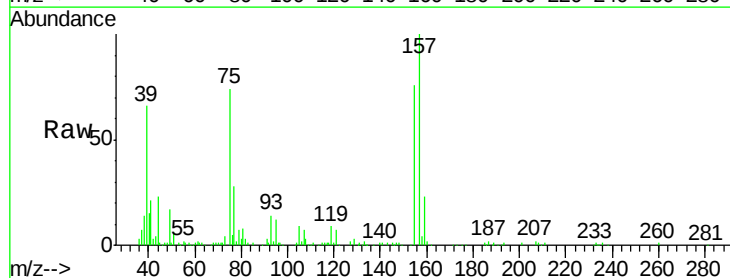
RT: 13.68 min Scan# 1334

Delta R.T. 0.00 min

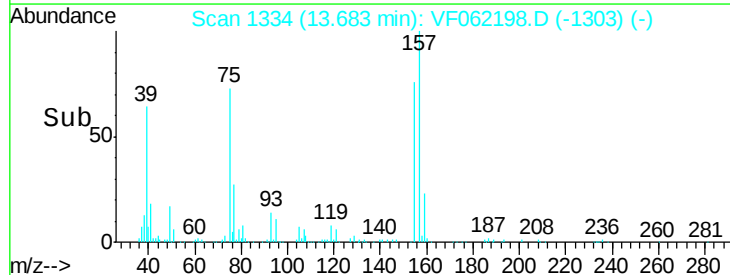
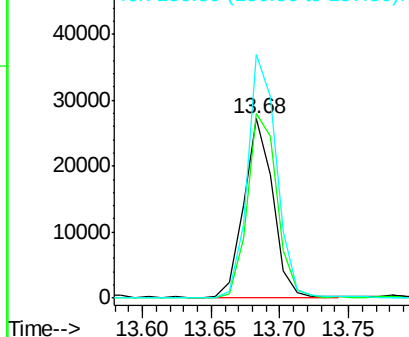
Lab File: VF062198.D

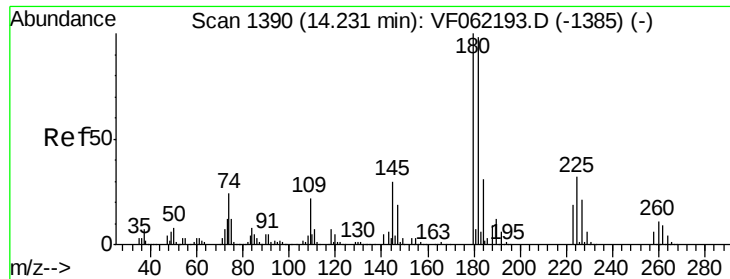
Acq: 18 Apr 2019 11:04

Tgt Ion:	75	Resp:	39579
Ion Ratio	Lower	Upper	
75	100		
155	106.6	47.6	142.8
157	137.4	61.3	183.9



Abundance Ion 74.90 (74.60 to 75.60): VF0
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





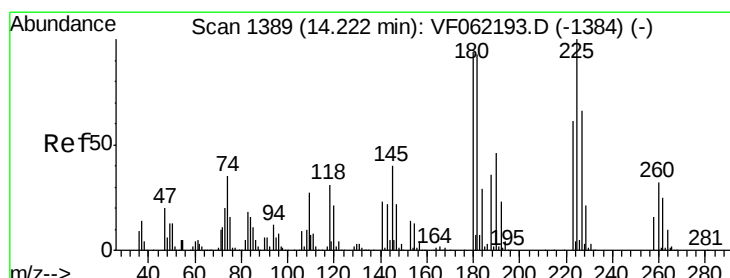
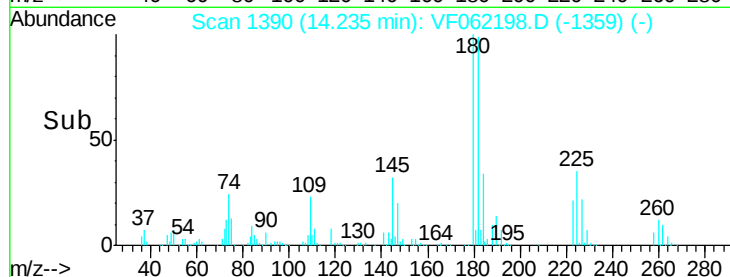
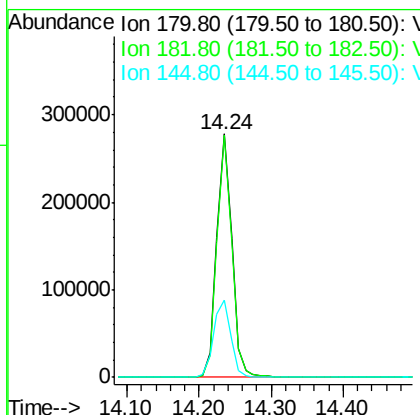
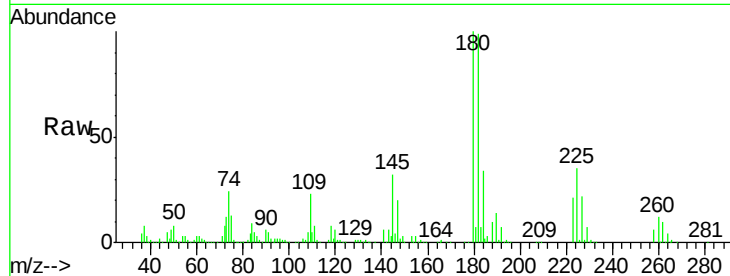
#93
 1,2,4-Trichlorobenzene
 Concen: 47.674 ug/l
 RT: 14.24 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	97.8	49.3	147.9	
145	36.0	18.1	54.4	

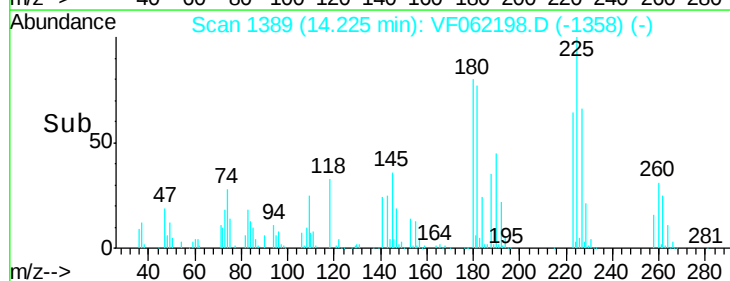
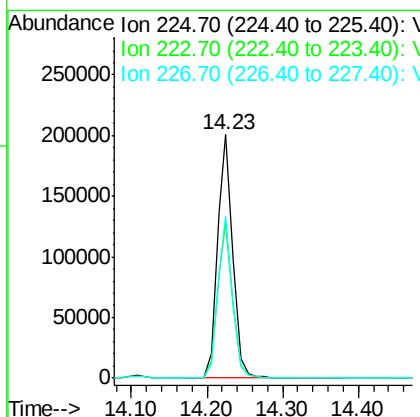
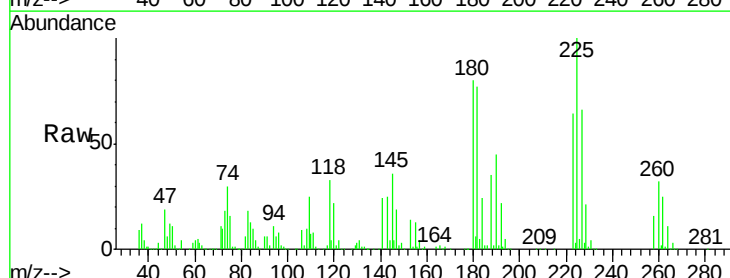
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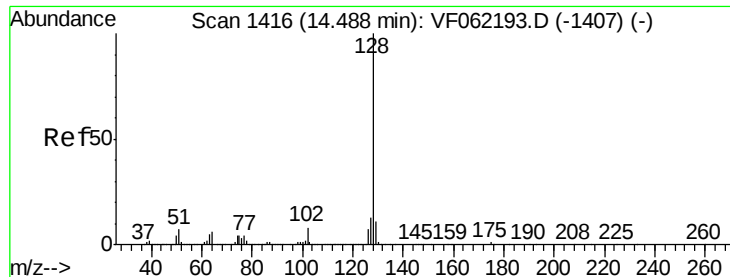
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#94
 Hexachlorobutadiene
 Concen: 49.201 ug/l
 RT: 14.23 min Scan# 1389
 Delta R.T. 0.00 min
 Lab File: VF062198.D
 Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	63.0	31.0	93.0	
227	64.3	32.4	97.0	





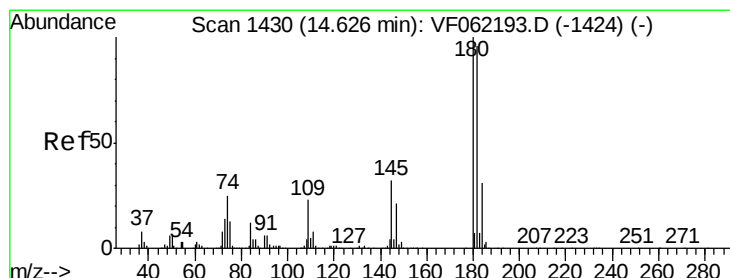
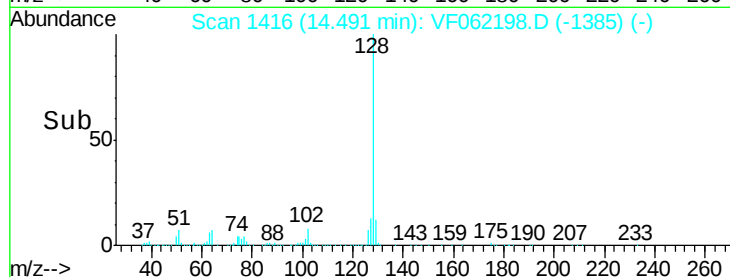
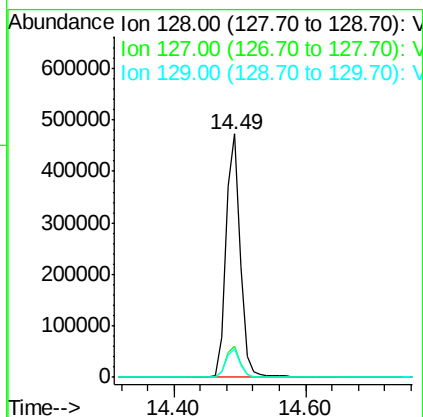
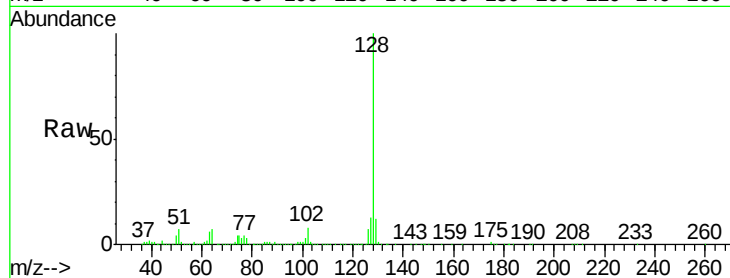
#95
Naphthalene
Concen: 48.613 ug/l
RT: 14.49 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.5	9.2	13.8

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#96
1,2,3-Trichlorobenzene
Concen: 48.025 ug/l
RT: 14.63 min Scan# 1430
Delta R.T. 0.00 min
Lab File: VF062198.D
Acq: 18 Apr 2019 11:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.7	48.4	145.3
145	32.0	15.6	46.8

