

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062093.D
 Acq On : 22 Mar 2019 22:10
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µl/5mL/MSVOA-F/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:22 AM

Quant Time: Mar 23 06:42:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.90	168	264994	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.62	114	410732	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.80	117	336282	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	173209	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	100816	51.15	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	102.30%	
35) Dibromofluoromethane	4.14	113	141901	51.07	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	102.14%	
50) Toluene-d8	7.58	98	426178	51.39	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	102.78%	
62) 4-Bromofluorobenzene	11.43	95	164474	51.37	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	102.74%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.97	85	160362	47.238	ug/l	95
3) Chloromethane	1.11	50	163835	46.123	ug/l	97
4) Vinyl Chloride	1.15	62	152594	46.442	ug/l	97
5) Bromomethane	1.34	94	119993	50.805	ug/l	95
6) Chloroethane	1.41	64	82865	50.100	ug/l #	88
7) Trichlorofluoromethane	1.51	101	198252	49.960	ug/l	94
8) Diethyl Ether	1.64	74	45995	50.742	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.85	101	135071	49.894	ug/l	94
10) Methyl Iodide	1.93	142	262179m	50.963	ug/l	
11) Tert butyl alcohol	2.58	59	24684	227.606	ug/l	100
12) 1,1-Dichloroethene	1.81	96	125001	48.937	ug/l	98
13) Acrolein	2.02	56	27871	213.715	ug/l #	80
14) Allyl chloride	2.11	41	136827	50.172	ug/l	99
15) Acrylonitrile	2.96	53	92914	243.636	ug/l	91
16) Acetone	2.25	43	94398	227.554	ug/l	96
17) Carbon Disulfide	1.85	76	380630	48.867	ug/l	100
18) Methyl Acetate	2.36	43	41559	41.998	ug/l	92
19) Methyl tert-butyl Ether	2.45	73	202454	50.148	ug/l	92
20) Methylene Chloride	2.20	84	127091m	51.020	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	129698	52.772	ug/l	98
22) Diisopropyl ether	2.82	45	371559	51.965	ug/l	97
23) Vinyl Acetate	3.21	43	758459	259.082	ug/l	100
24) 1,1-Dichloroethane	2.89	63	212937	49.661	ug/l	99
25) 2-Butanone	4.37	43	195800	226.090	ug/l	99
26) 2,2-Dichloropropane	3.62	77	84241	48.456	ug/l	96
27) cis-1,2-Dichloroethene	3.50	96	155711	47.812	ug/l	96
28) Bromochloromethane	3.74	49	90807	51.834	ug/l	90
29) Tetrahydrofuran	4.10	42	87880	233.391	ug/l	97
30) Chloroform	3.88	83	239756	52.909	ug/l	98
31) Cyclohexane	3.71	56	216325m	48.306	ug/l	
32) 1,1,1-Trichloroethane	4.12	97	148786	53.976	ug/l	96
36) 1,1-Dichloropropene	4.31	75	196603	50.254	ug/l	98
37) Ethyl Acetate	4.15	43	75742	44.300	ug/l	88
38) Carbon Tetrachloride	4.02	117	128380	48.146	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	231058	50.888	ug/l	97
40) Benzene	4.66	78	535034	51.015	ug/l	98
41) Methacrylonitrile	4.77	41	43291	47.854	ug/l	97
42) 1,2-Dichloroethane	4.97	62	128846	51.951	ug/l	95
43) Isopropyl Acetate	6.98	43	96614	46.660	ug/l #	96
44) Trichloroethene	5.53	130	158880	49.549	ug/l	93
45) 1,2-Dichloropropane	6.26	63	120098	48.011	ug/l	99
46) Dibromomethane	6.11	93	74619	48.787	ug/l	96
47) Bromodichloromethane	6.41	83	174026	51.369	ug/l	96
48) Methyl methacrylate	6.74	41	58978	50.026	ug/l	98
49) 1,4-Dioxane	6.73	88	9957	962.511	ug/l	91
51) 4-Methyl-2-Pentanone	8.28	43	330359	238.376	ug/l	94
52) Toluene	7.65	92	307145	50.562	ug/l	97
53) t-1,3-Dichloropropene	8.30	75	135310	50.878	ug/l	92
54) cis-1,3-Dichloropropene	7.32	75	194442	51.098	ug/l	96
55) 1,1,2-Trichloroethane	8.52	97	86763	50.283	ug/l	96
56) Ethyl methacrylate	8.64	69	103751	50.418	ug/l	95
57) 1,3-Dichloropropane	8.88	76	144161	50.339	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.32	63	81123	259.793	ug/l	99
59) 2-Hexanone	9.51	43	230942	227.368	ug/l	95
60) Dibromochloromethane	8.74	129	123719	51.577	ug/l	98
61) 1,2-Dibromoethane	9.01	107	90906	49.382	ug/l	92
64) Tetrachloroethene	8.18	164	137353	52.868	ug/l	95
65) Chlorobenzene	9.82	112	327149	51.994	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.96	131	133139	52.678	ug/l	97
67) Ethyl Benzene	9.93	91	579214	52.933	ug/l	98
68) m/p-Xylenes	10.15	106	427128	104.436	ug/l	98
69) o-Xylene	10.74	106	225284	52.593	ug/l	91
70) Styrene	10.80	104	337315	51.974	ug/l	99
71) Bromoform	10.79	173	64511	49.902	ug/l	96
73) Isopropylbenzene	11.14	105	656309	53.848	ug/l	97
74) N-amyl acetate	11.39	43	156312	53.824	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.71	83	103572	49.491	ug/l	96
76) 1,2,3-Trichloropropane	11.81	75	72396	49.156	ug/l	95
77) Bromobenzene	11.51	156	151965	51.034	ug/l	95
78) n-propylbenzene	11.61	91	713839	50.439	ug/l	99
79) 2-Chlorotoluene	11.74	91	412811	52.478	ug/l	97
80) 1,3,5-Trimethylbenzene	11.84	105	516721	51.542	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.89	75	32317m	53.851	ug/l	
82) 4-Chlorotoluene	11.92	91	412062	51.089	ug/l	97
83) tert-Butylbenzene	12.15	119	574599	54.752	ug/l	97
84) 1,2,4-Trimethylbenzene	12.22	105	516938	52.599	ug/l	99
85) sec-Butylbenzene	12.32	105	695035	51.194	ug/l	100
86) p-Isopropyltoluene	12.48	119	627072	53.312	ug/l	99
87) 1,3-Dichlorobenzene	12.49	146	281635	50.908	ug/l	97
88) 1,4-Dichlorobenzene	12.58	146	273316	50.629	ug/l	97
89) n-Butylbenzene	12.86	91	578355	51.538	ug/l	97
90) Hexachloroethane	12.93	117	147949	52.825	ug/l	88
91) 1,2-Dichlorobenzene	12.96	146	257869	49.640	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	16373	51.636	ug/l	76

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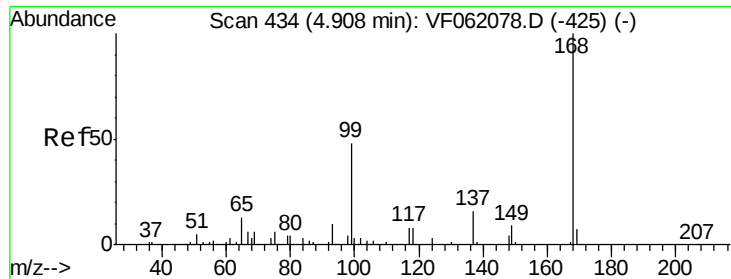
Manual Integrations
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QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	182373	50.373	ug/l	97
94) Hexachlorobutadiene	14.21	225	127456	52.946	ug/l	92
95) Naphthalene	14.47	128	339320	53.482	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	175255	51.713	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:168 Resp: 264994

Ion Ratio Lower Upper

168 100

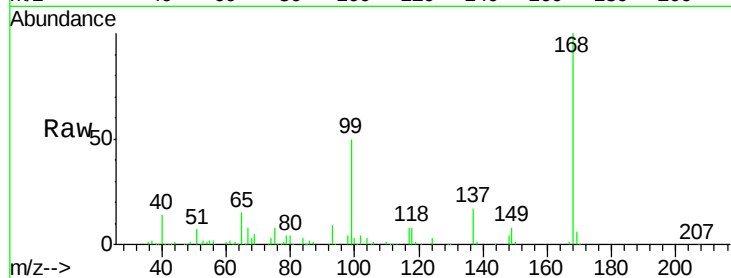
99 50.3 38.2 57.4

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.90

80000

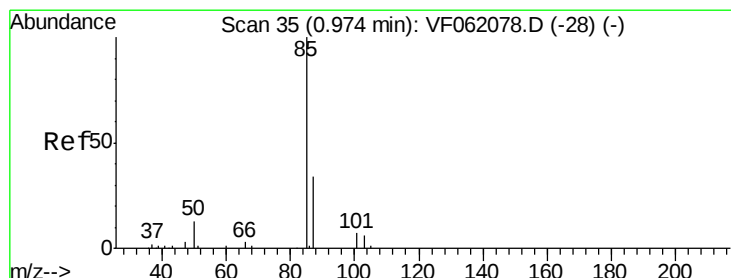
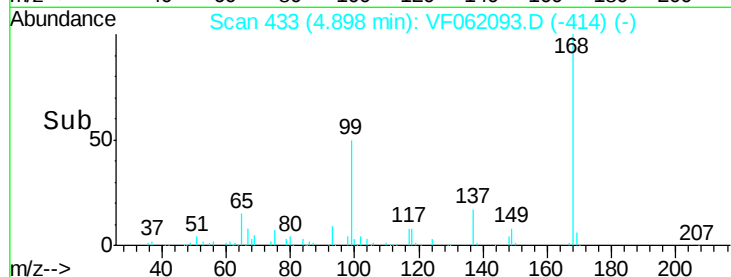
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 47.238 ug/l

RT: 0.97 min Scan# 35

Delta R.T. -0.00 min

Lab File: VF062093.D

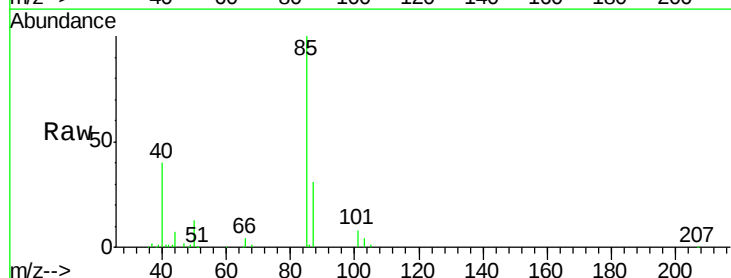
Acq: 22 Mar 2019 22:10

Tgt Ion: 85 Resp: 160362

Ion Ratio Lower Upper

85 100

87 30.9 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.97

50000

40000

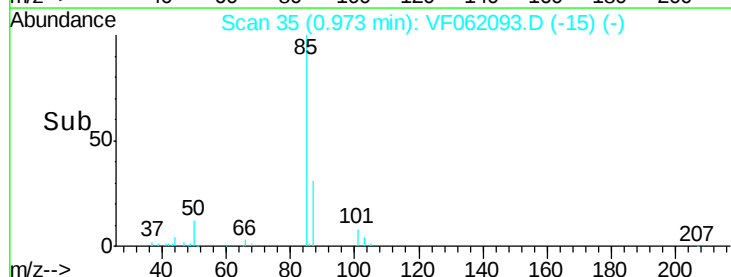
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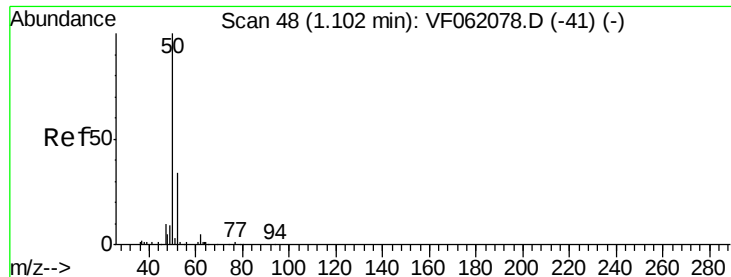
20000

10000

0

Time-->





#3

Chloromethane

Concen: 46.123 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 50 Resp: 163835

Ion Ratio Lower Upper

50 100

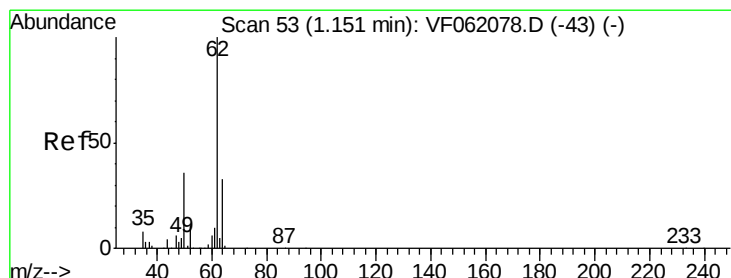
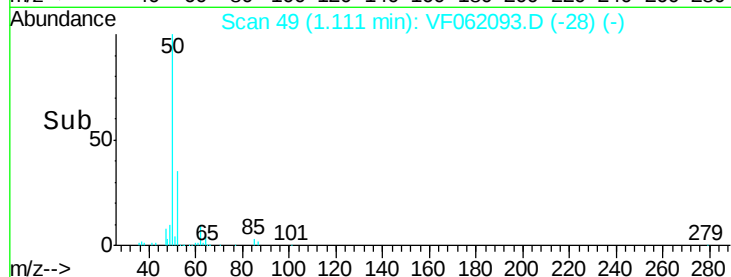
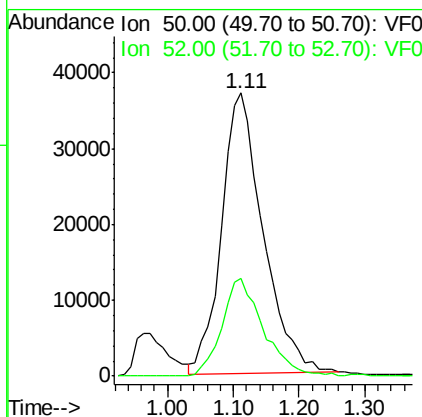
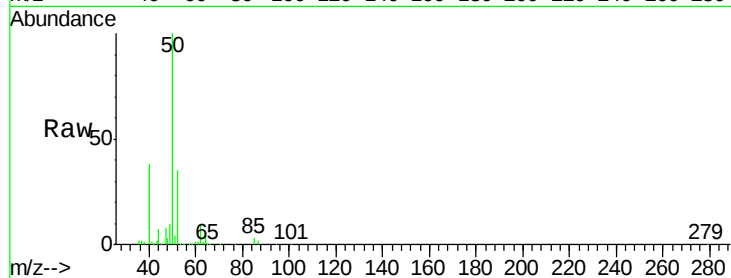
52 34.5 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 46.442 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF062093.D

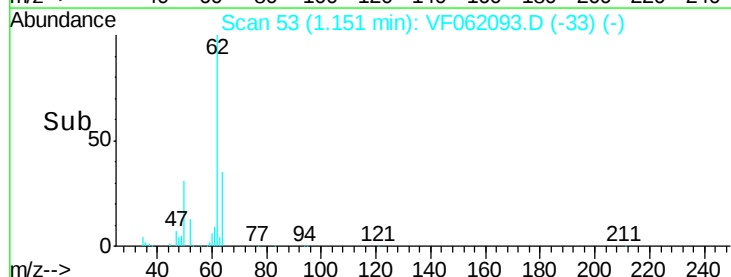
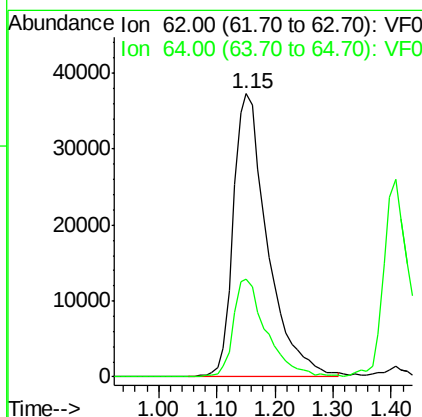
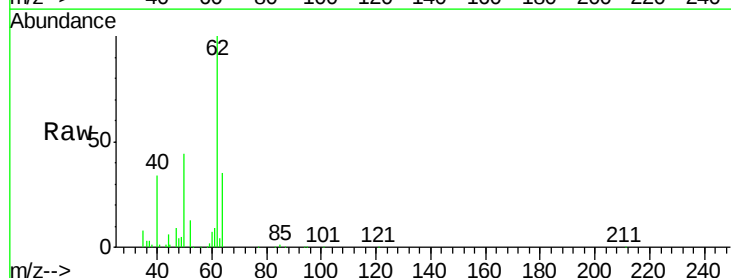
Acq: 22 Mar 2019 22:10

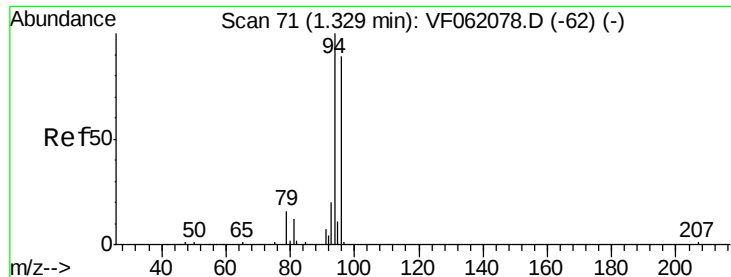
Tgt Ion: 62 Resp: 152594

Ion Ratio Lower Upper

62 100

64 34.6 26.2 39.2





#5

Bromomethane

Concen: 50.805 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

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VSTDCCC050

Tot Ion: 94 Resp: 119993

Ion Ratio Lower Upper

94 100

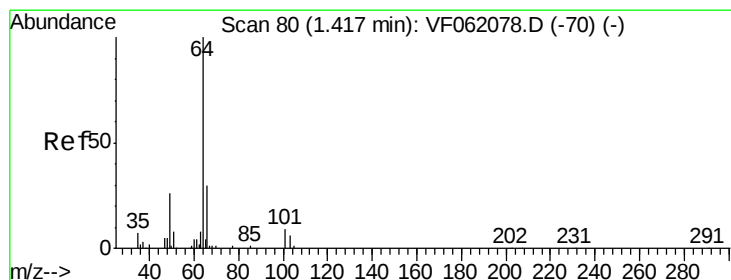
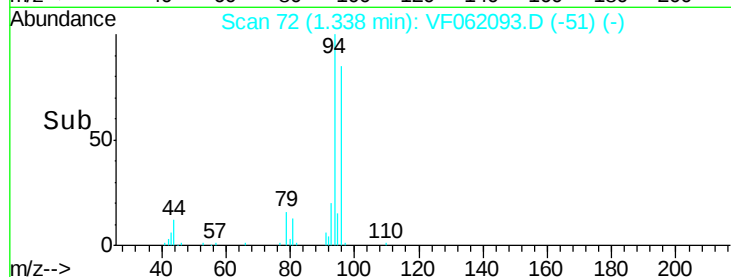
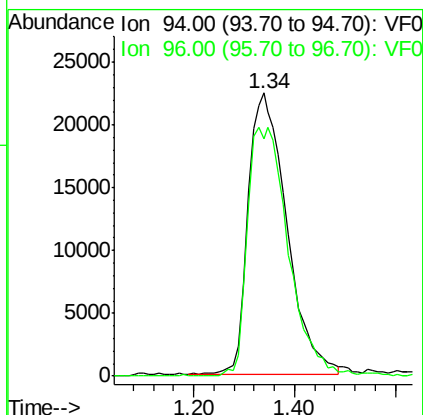
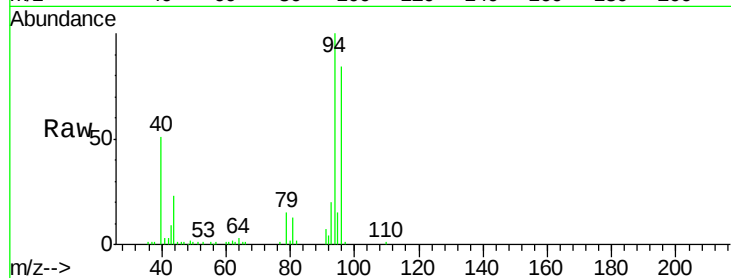
96 83.7 70.9 106.3

Manual Integrations

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#6

Chloroethane

Concen: 50.100 ug/l

RT: 1.41 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF062093.D

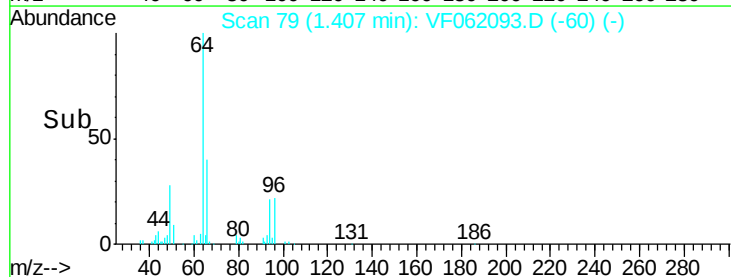
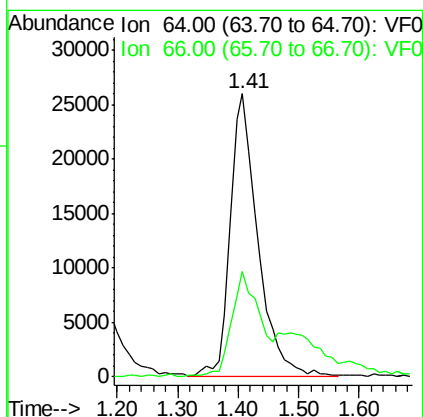
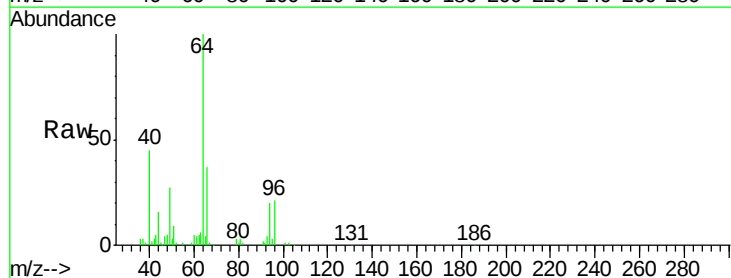
Acq: 22 Mar 2019 22:10

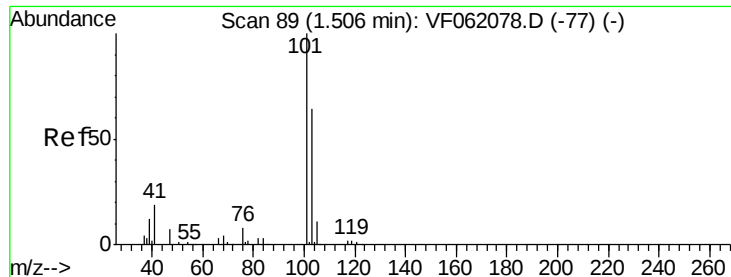
Tgt Ion: 64 Resp: 82865

Ion Ratio Lower Upper

64 100

66 37.4 24.5 36.7#





#7

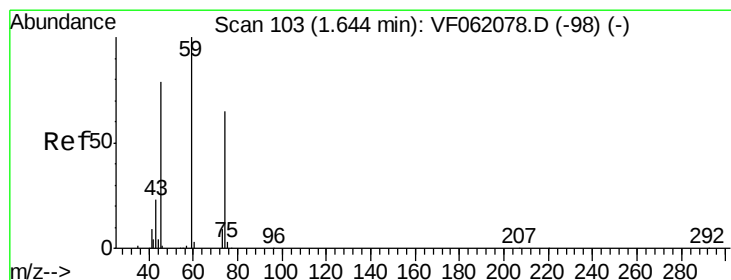
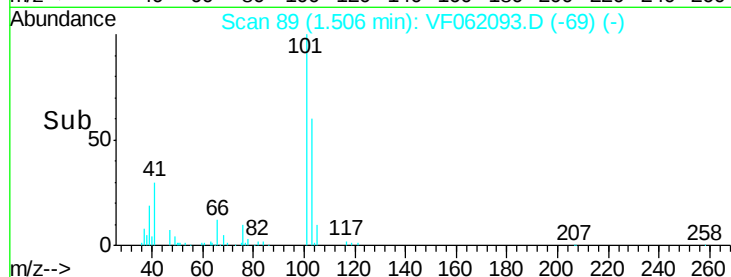
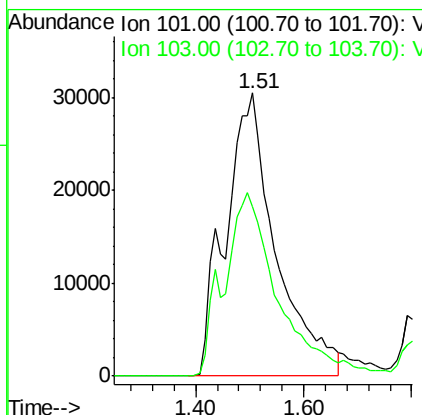
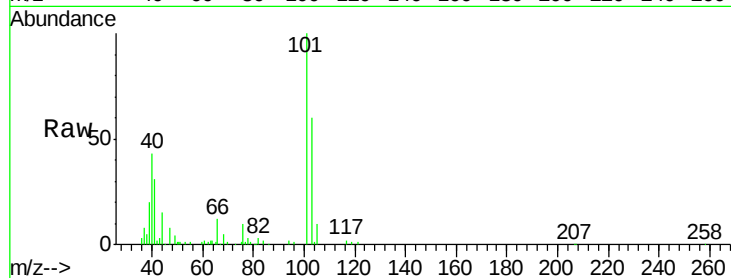
Trichlorofluoromethane
 Concen: 49.960 ug/l
 RT: 1.51 min Scan# 89
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

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 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.7	51.5	77.3

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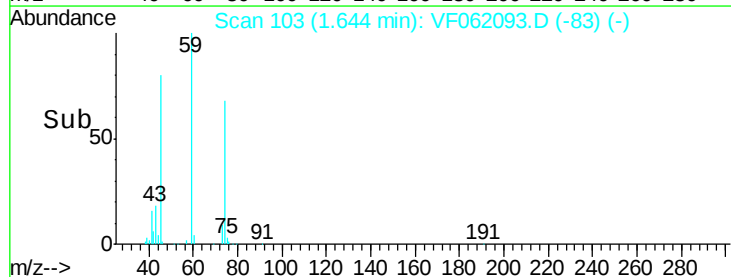
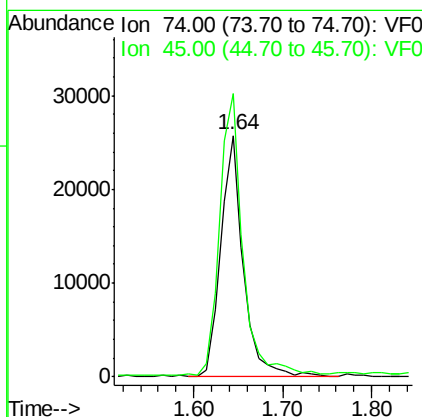
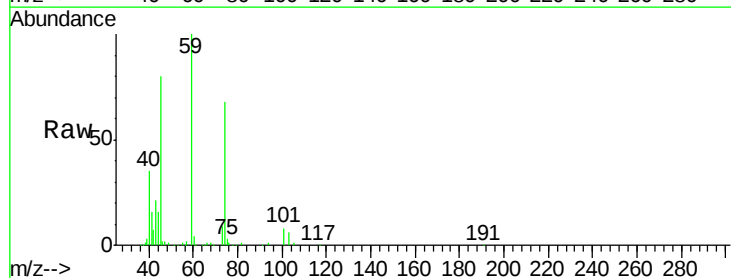
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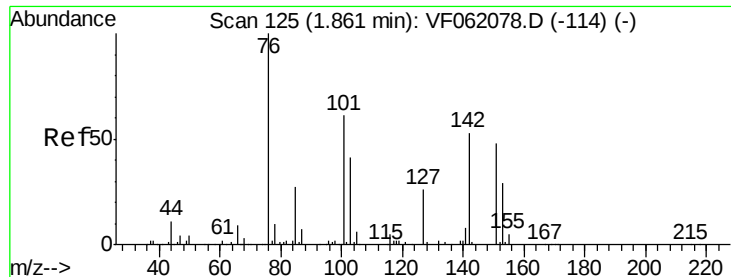


#8

Diethyl Ether
 Concen: 50.742 ug/l
 RT: 1.64 min Scan# 103
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
74	100		
45	117.4	61.4	184.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.894 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

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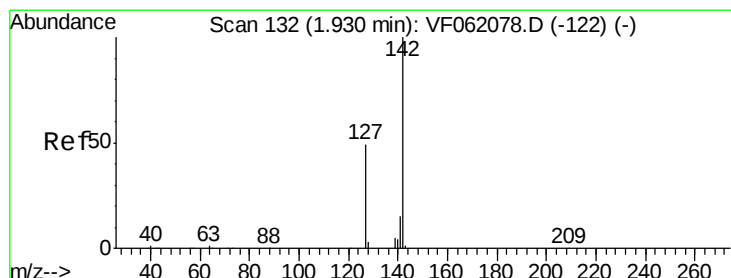
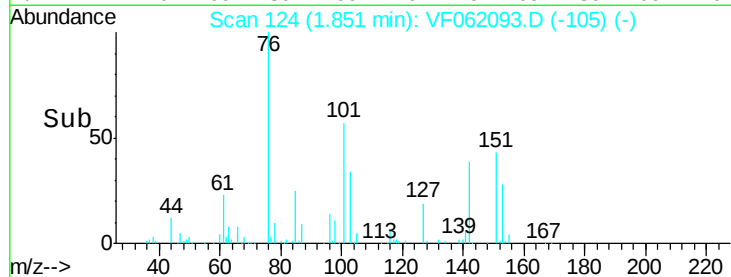
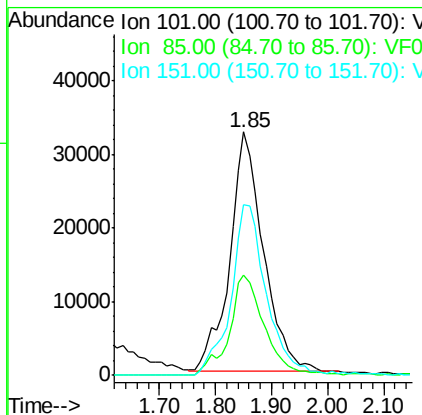
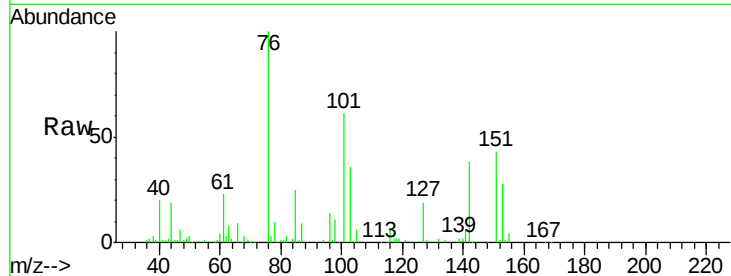
ClientSampleId :

VSTDCCC050

Tot Ion:	101	Resp:	135071
Ion Ratio	Lower	Upper	
101	100		
85	41.3	34.6	52.0
151	69.9	61.7	92.5

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#10

Methyl Iodide

Concen: 50.963 ug/l m

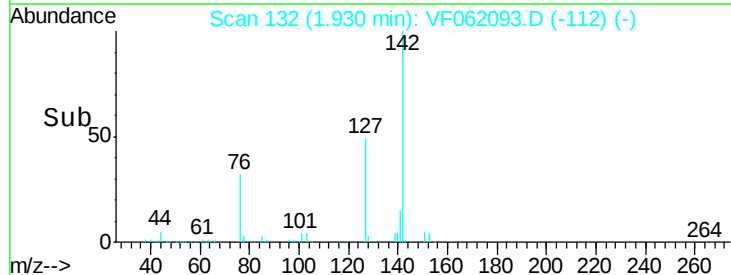
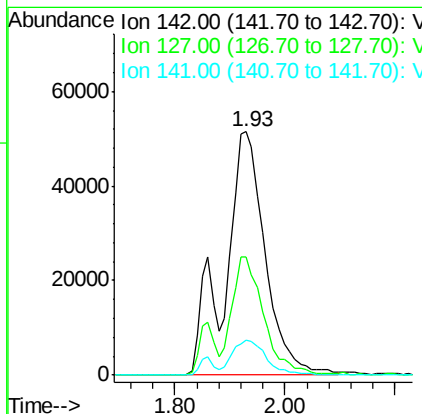
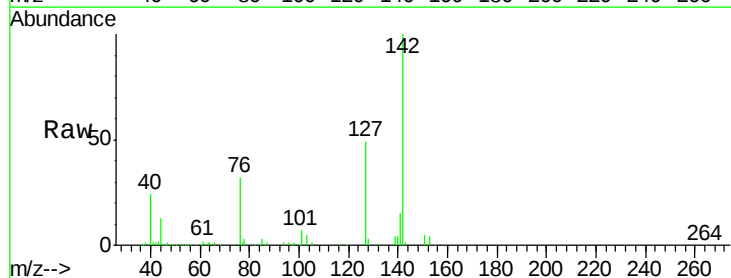
RT: 1.93 min Scan# 132

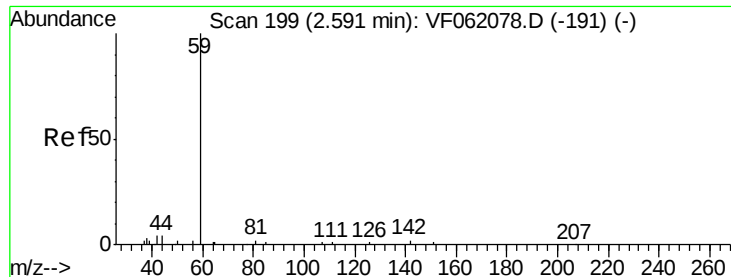
Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion:	142	Resp:	262179
Ion Ratio	Lower	Upper	
142	100		
127	48.8	39.1	58.7
141	14.6	12.2	18.4





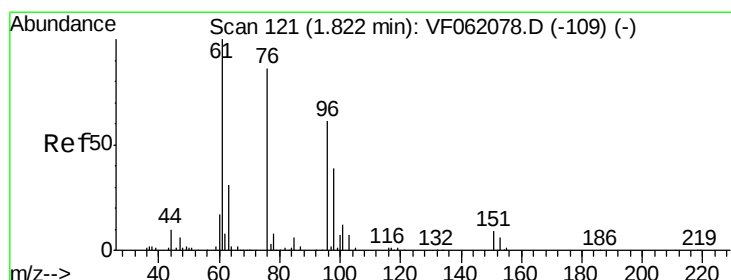
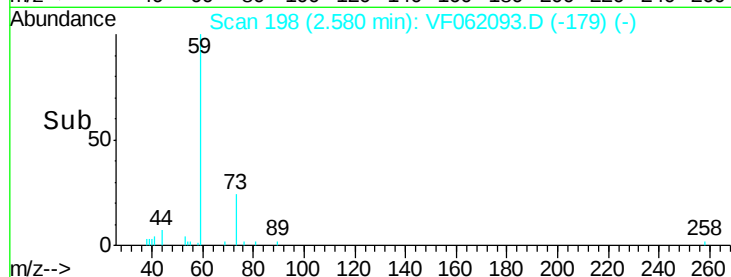
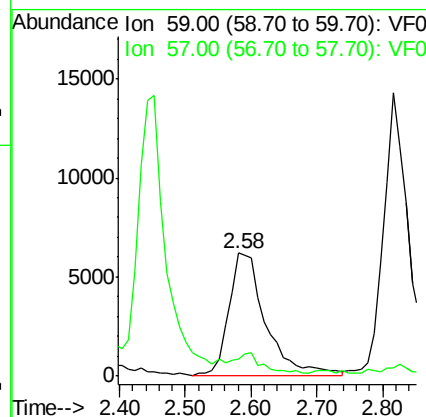
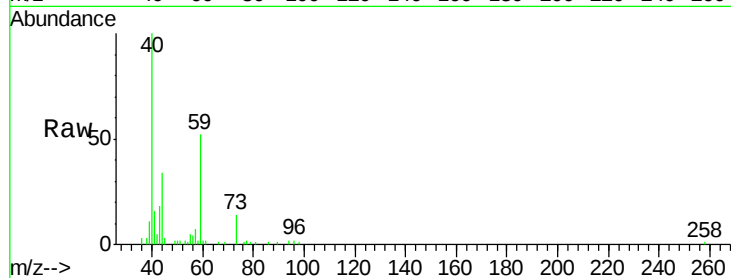
#11
Tert butyl alcohol
Concen: 227.606 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 59 Resp: 24684
Ion Ratio Lower Upper
59 100
57 13.5 11.0 16.4

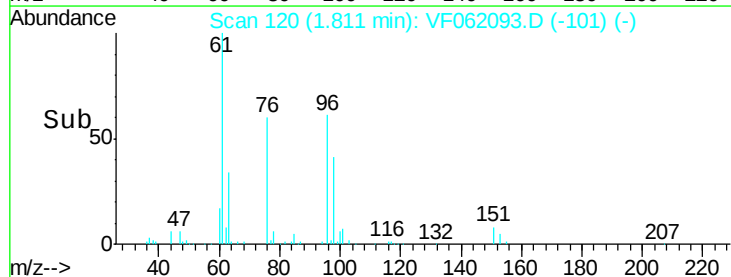
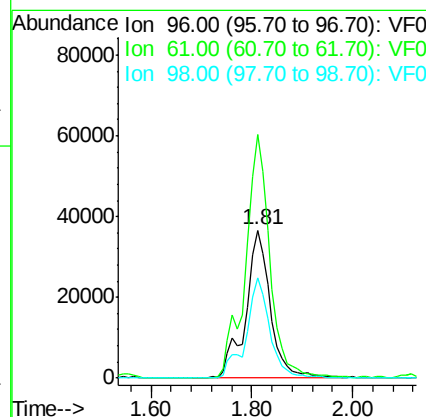
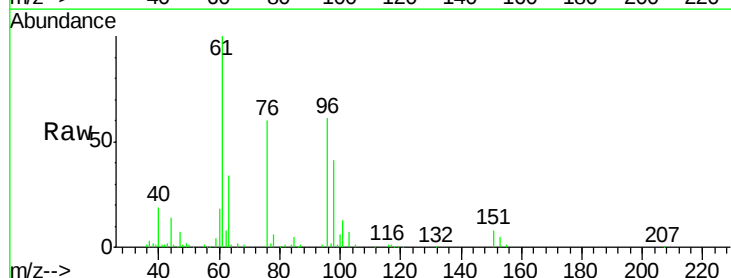
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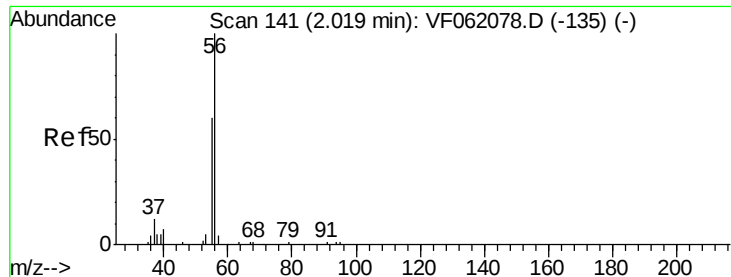
MMDadoda
3/27/2019 11:57:22 AM



#12
1,1-Dichloroethene
Concen: 48.937 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 96 Resp: 125001
Ion Ratio Lower Upper
96 100
61 164.9 131.0 196.6
98 67.8 51.5 77.3





#13

Acrolein

Concen: 213.715 ug/l

RT: 2.02 min Scan# 141

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 27871

Ion Ratio Lower Upper

56 100

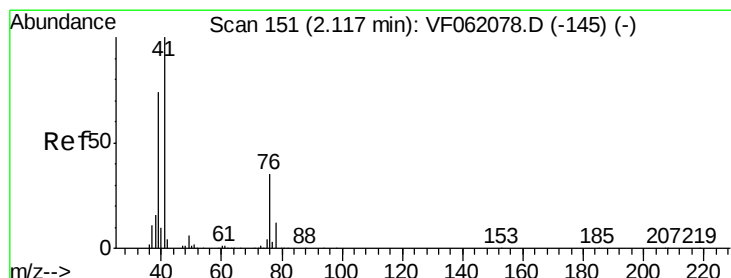
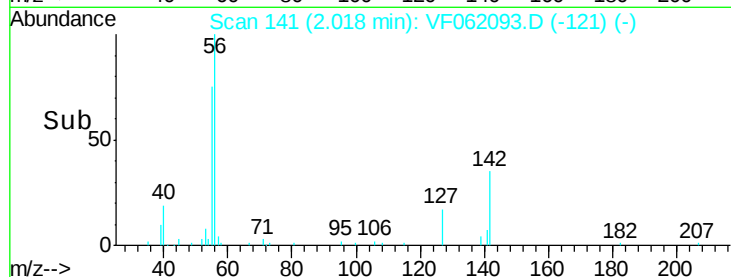
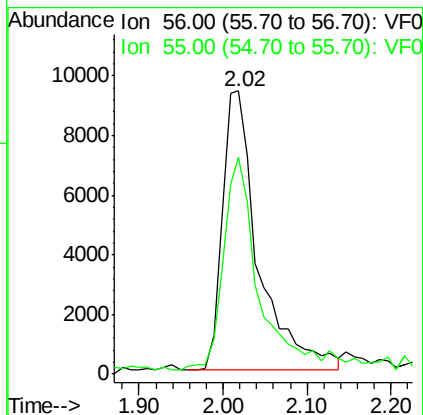
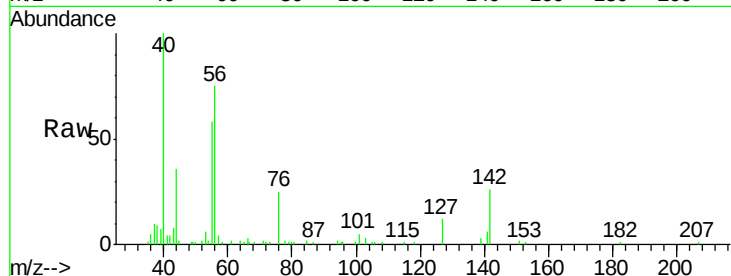
55 76.7 49.0 73.4#

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#14

Allyl chloride

Concen: 50.172 ug/l

RT: 2.11 min Scan# 150

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

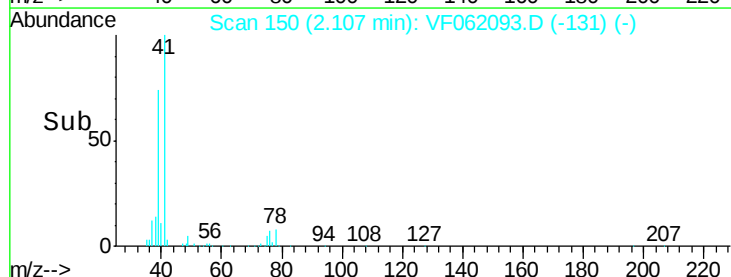
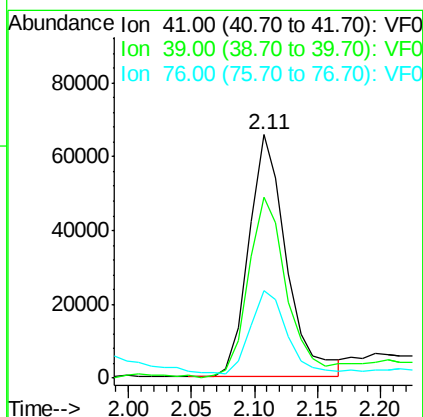
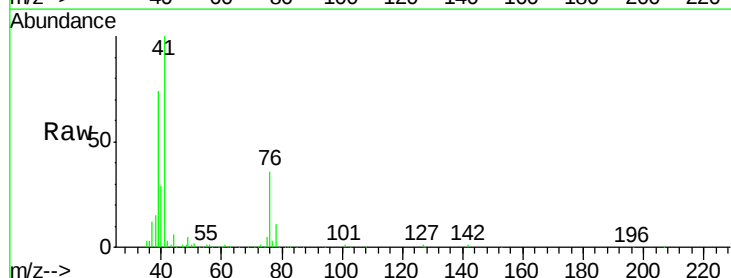
Tgt Ion: 41 Resp: 136827

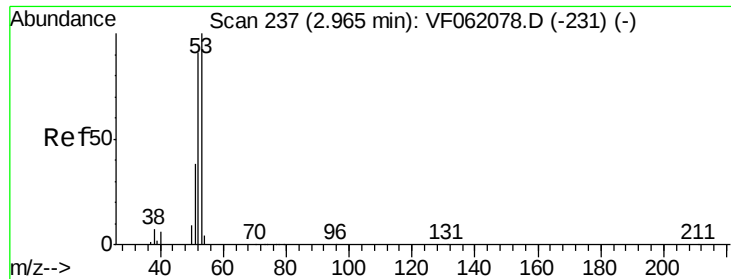
Ion Ratio Lower Upper

41 100

39 74.1 59.8 89.8

76 36.0 30.0 45.0





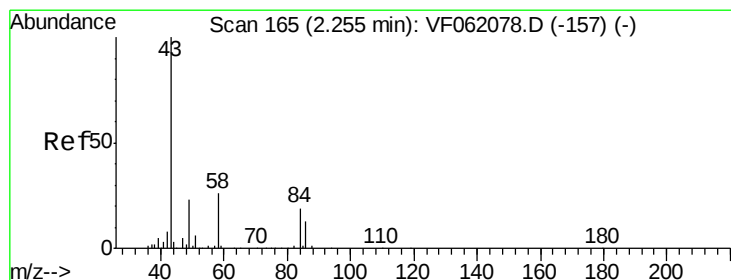
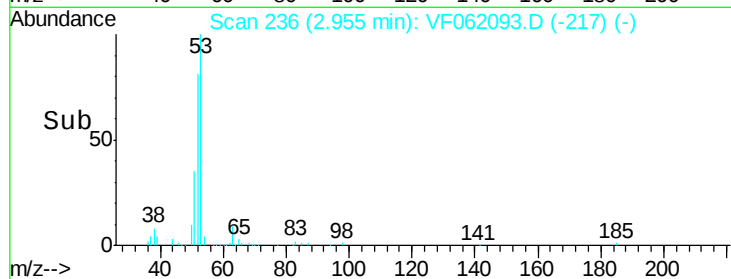
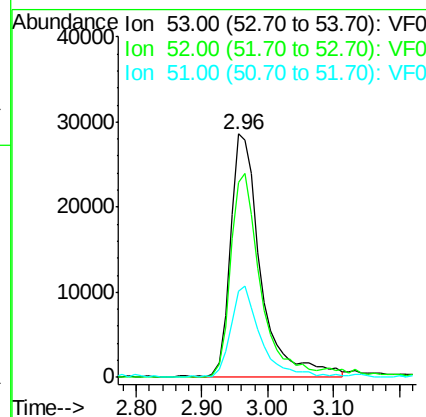
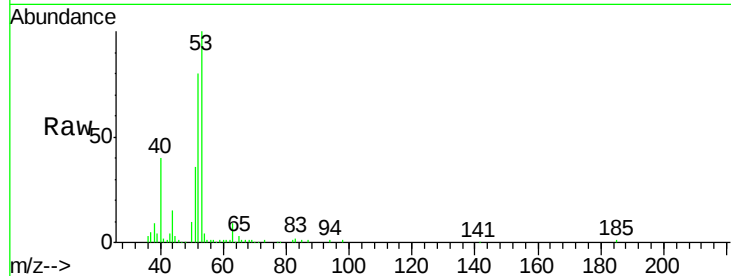
#15
 Acrylonitrile
 Concen: 243.636 ug/l
 RT: 2.96 min Scan# 236
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	53	Resp	92914
Ion Ratio	100	Lower	Upper
53	100		
52	80.2	72.3	108.5
51	35.5	30.4	45.6

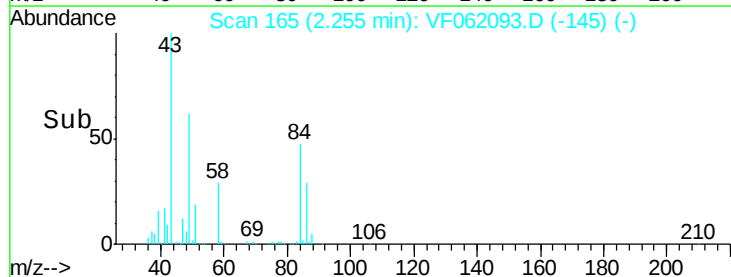
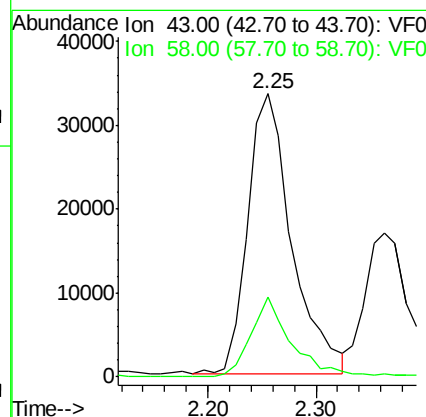
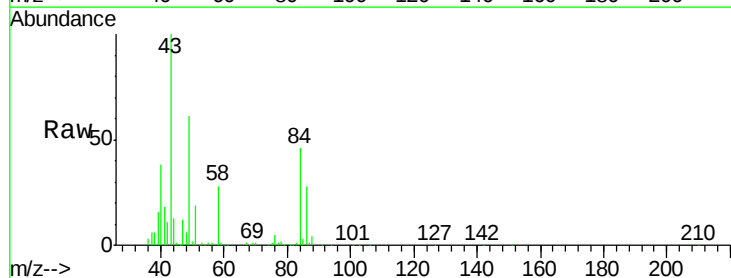
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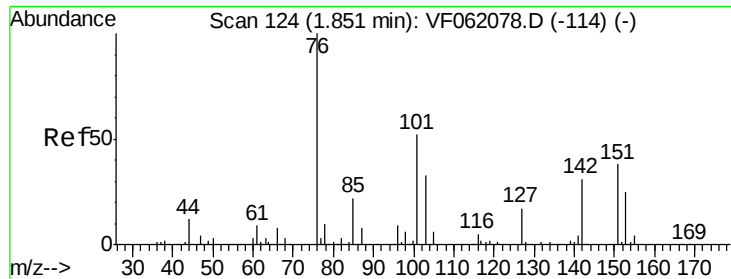
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#16
 Acetone
 Concen: 227.554 ug/l
 RT: 2.25 min Scan# 165
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	43	Resp	94398
Ion Ratio	100	Lower	Upper
43	100		
58	28.3	20.8	31.2





#17

Carbon Disulfide

Concen: 48.867 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 380630

Ion Ratio Lower Upper

76 100

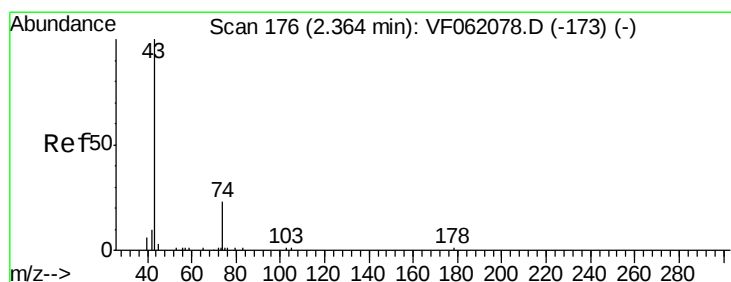
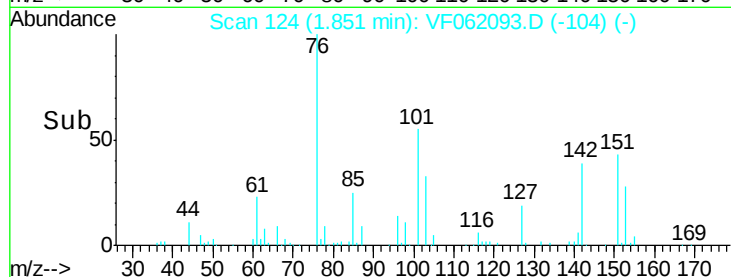
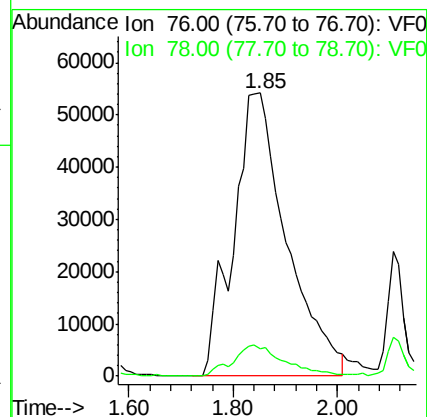
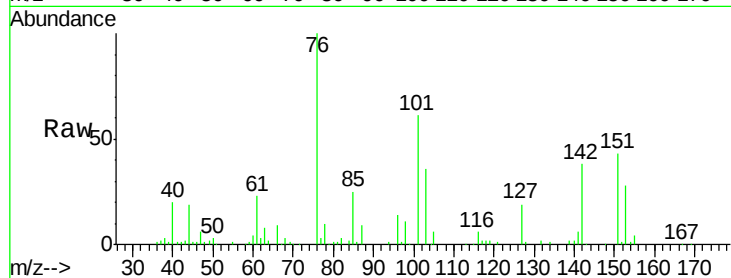
78 9.8 7.9 11.9

Manual Integrations

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#18

Methyl Acetate

Concen: 41.998 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.00 min

Lab File: VF062093.D

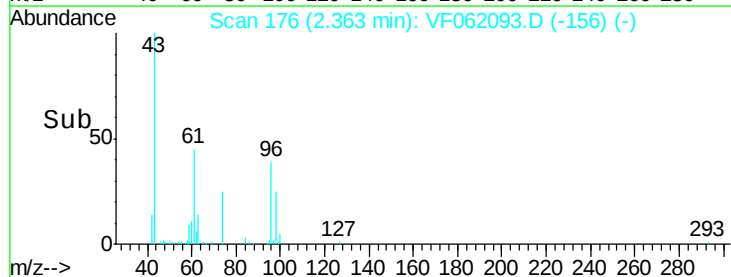
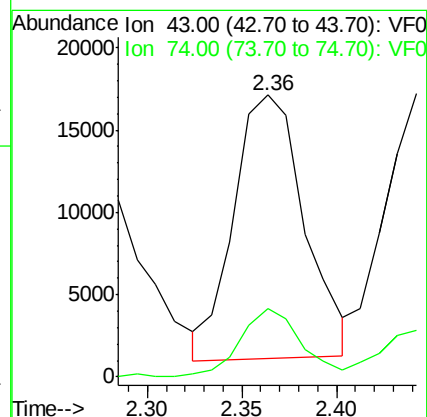
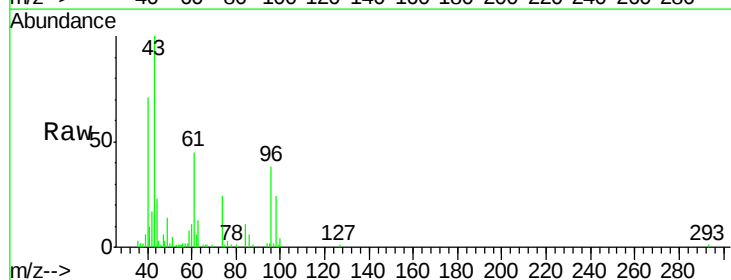
Acq: 22 Mar 2019 22:10

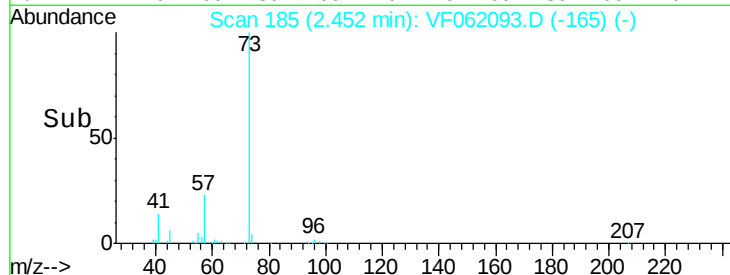
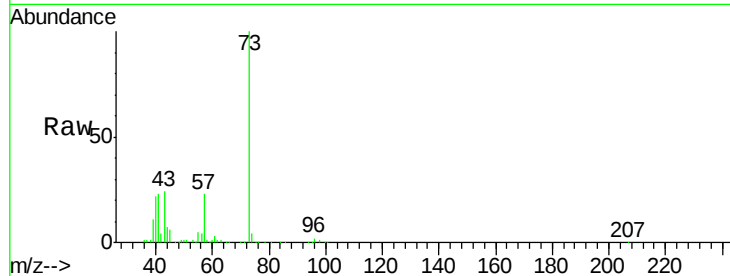
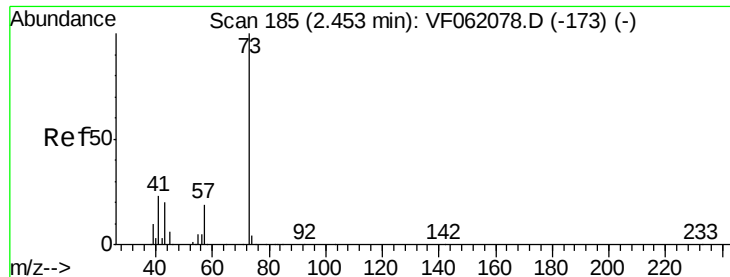
Tgt Ion: 43 Resp: 41559

Ion Ratio Lower Upper

43 100

74 24.2 16.3 24.5





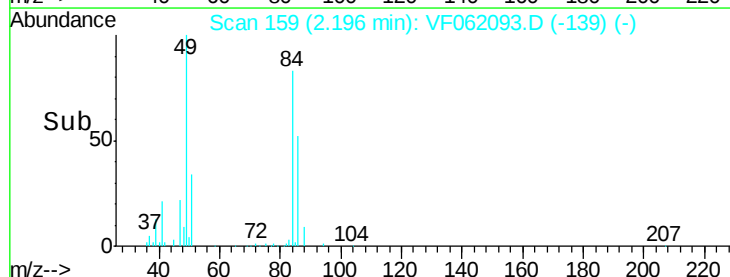
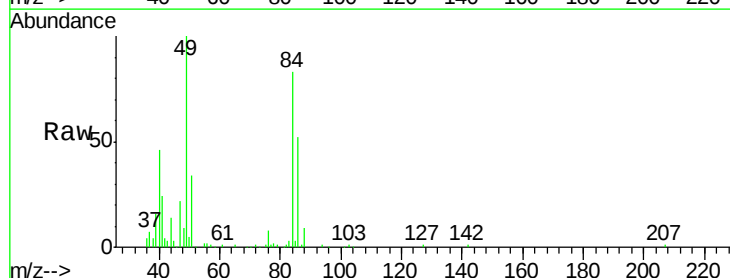
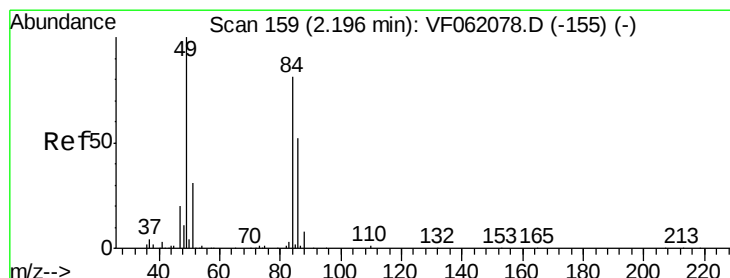
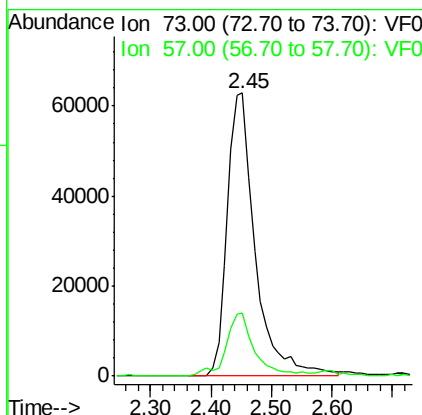
#19
Methvl tert-butvl Ether
Concen: 50.148 ug/l
RT: 2.45 min Scan# 185
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tot Ion: 73 Resp: 202454
Ion Ratio Lower Upper
73 100
57 22.5 15.1 22.7

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

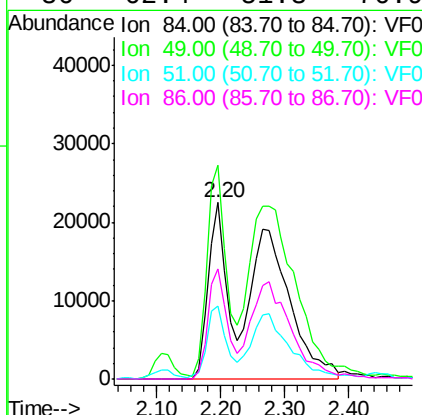
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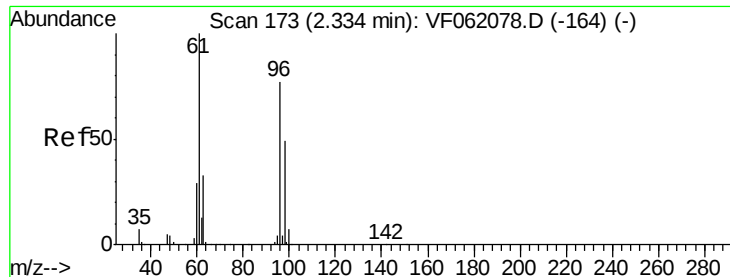
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#20
Methylene Chloride
Concen: 51.020 ug/l m
RT: 2.20 min Scan# 159
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 84 Resp: 127091
Ion Ratio Lower Upper
84 100
49 121.0 100.4 150.6
51 41.4 31.0 46.6
86 62.4 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 52.772 ug/l

RT: 2.32 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

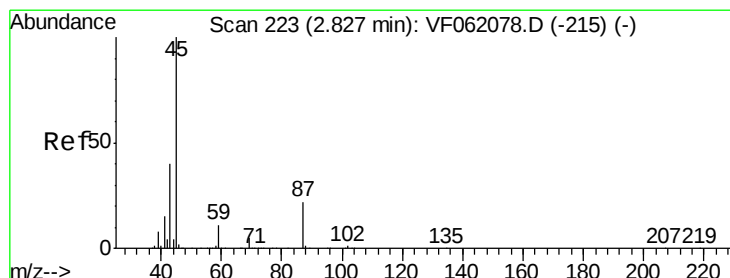
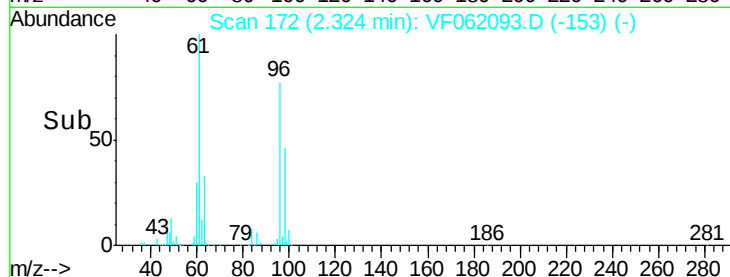
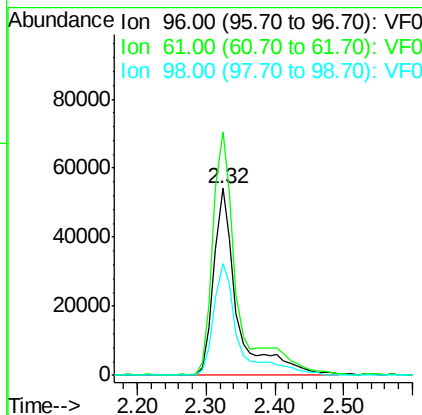
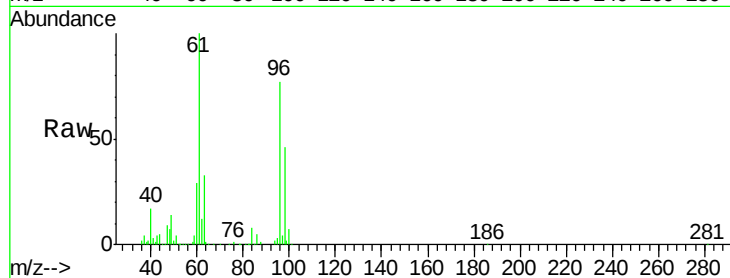
ClientSampleId :

VSTDCCC050

Tot Ion:	96	Resp:	129698
Ion	Ratio	Lower	Upper
96	100		
61	130.1	104.5	156.7
98	59.4	51.2	76.8

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#22

Diisopropyl ether

Concen: 51.965 ug/l

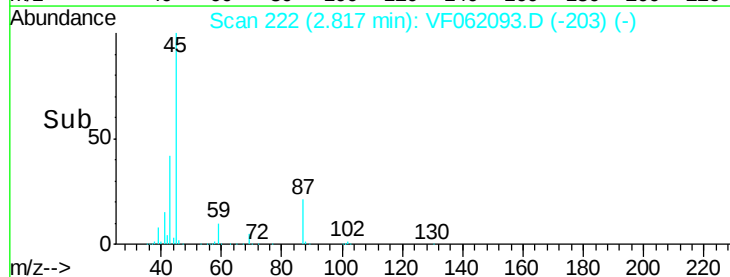
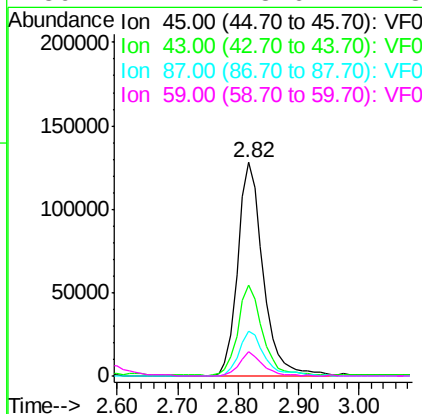
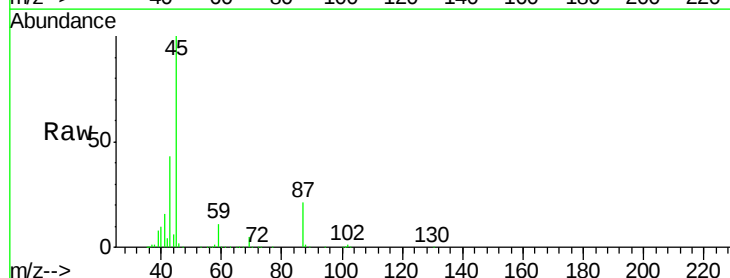
RT: 2.82 min Scan# 222

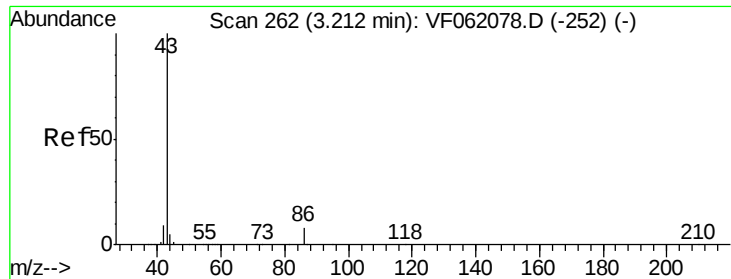
Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion:	45	Resp:	371559
Ion	Ratio	Lower	Upper
45	100		
43	42.6	32.5	48.7
87	20.8	17.4	26.2
59	11.1	8.6	12.8





#23

Vinyl Acetate

Concen: 259.082 ug/l

RT: 3.21 min Scan# 262

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 758459

Ion Ratio Lower Upper

43 100

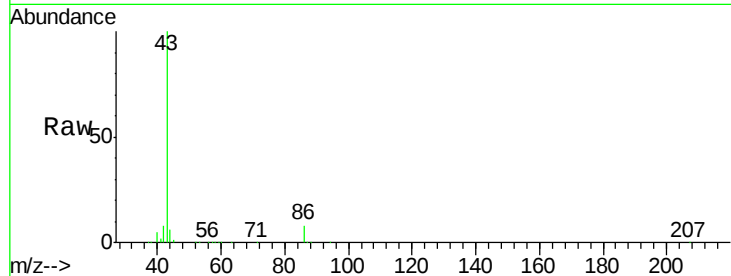
86 8.4 6.8 10.2

Manual Integrations

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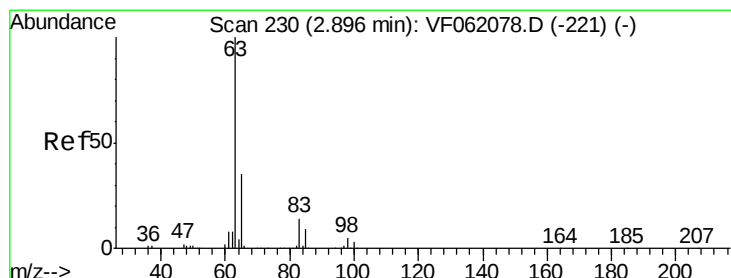
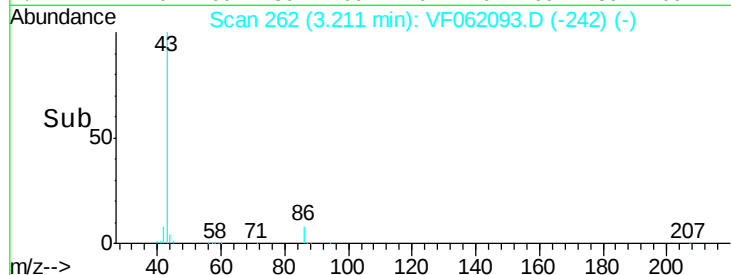
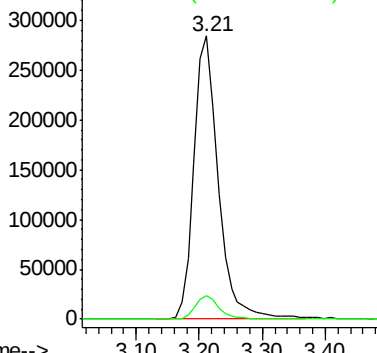
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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 49.661 ug/l

RT: 2.89 min Scan# 229

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

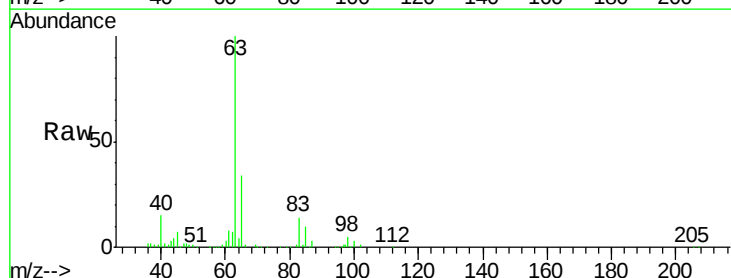
Tgt Ion: 63 Resp: 212937

Ion Ratio Lower Upper

63 100

98 4.8 2.7 8.1

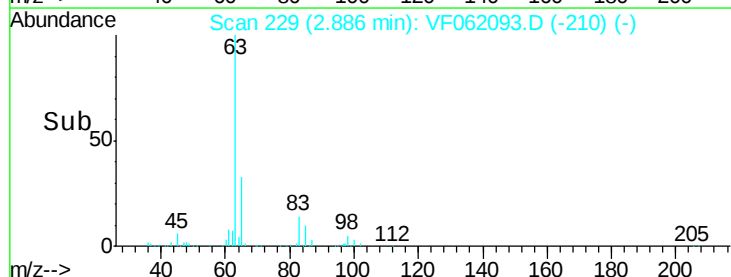
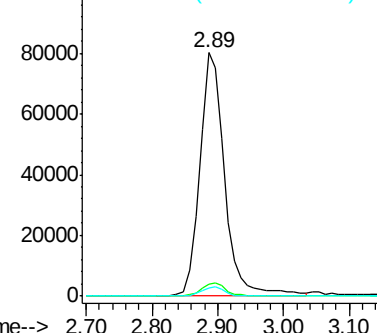
100 3.3 1.7 5.1

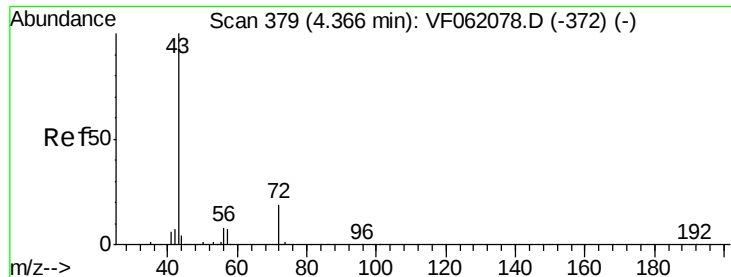


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 226.090 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 195800

Ion Ratio Lower Upper

43 100

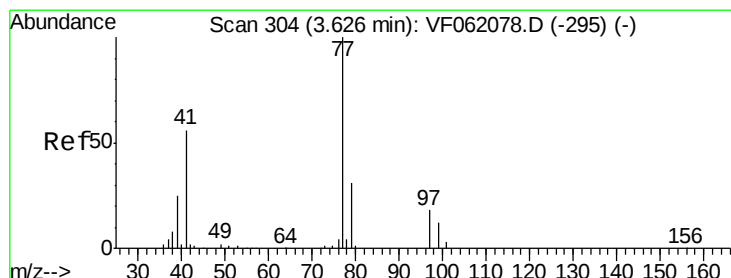
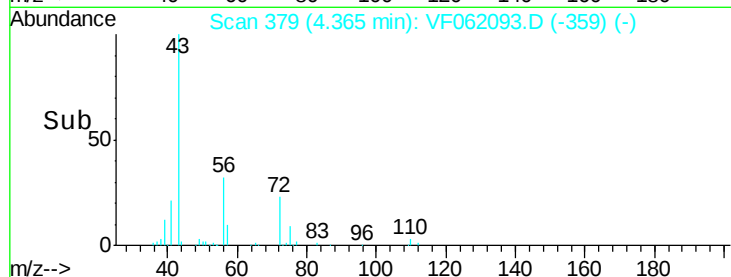
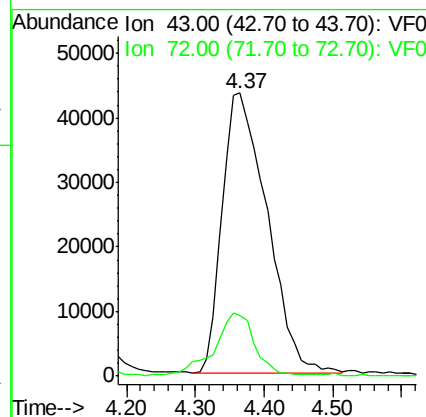
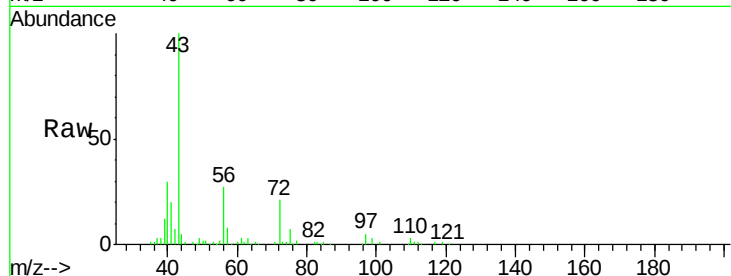
72 21.2 16.7 25.1

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#26

2,2-Dichloropropane

Concen: 48.456 ug/l

RT: 3.62 min Scan# 303

Delta R.T. -0.01 min

Lab File: VF062093.D

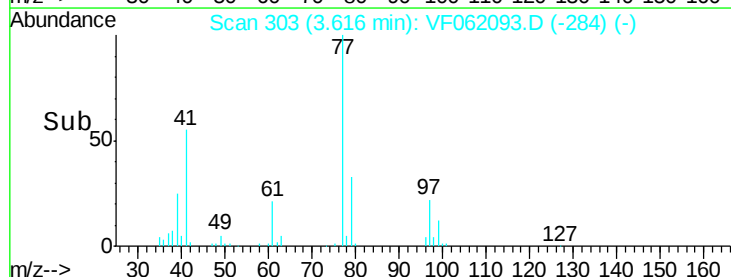
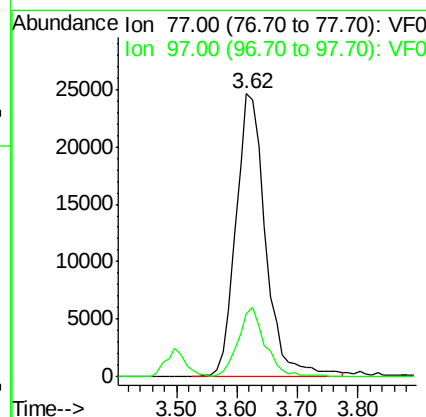
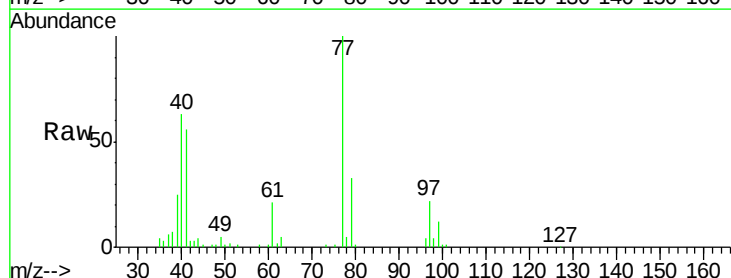
Acq: 22 Mar 2019 22:10

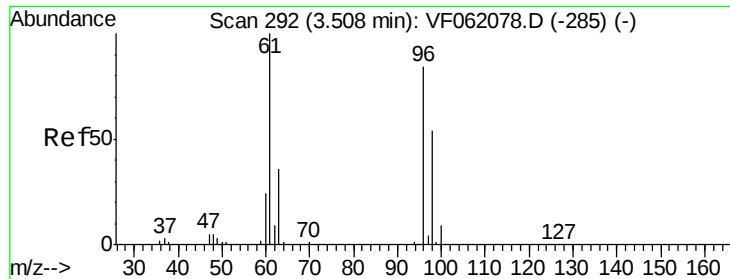
Tgt Ion: 77 Resp: 84241

Ion Ratio Lower Upper

77 100

97 22.4 10.3 30.9





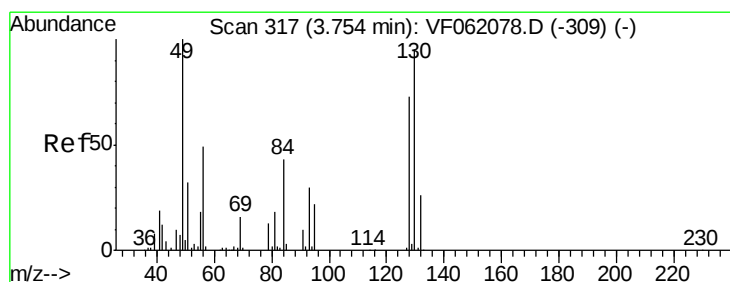
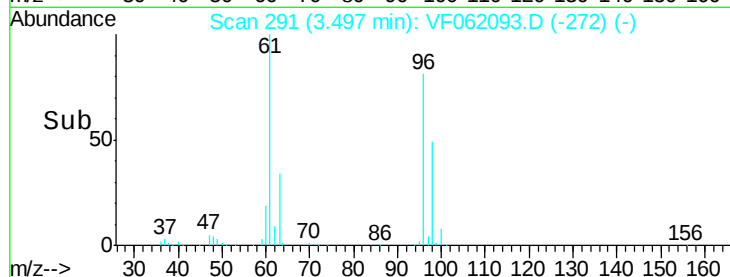
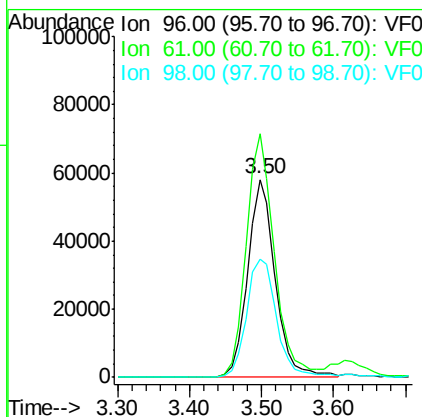
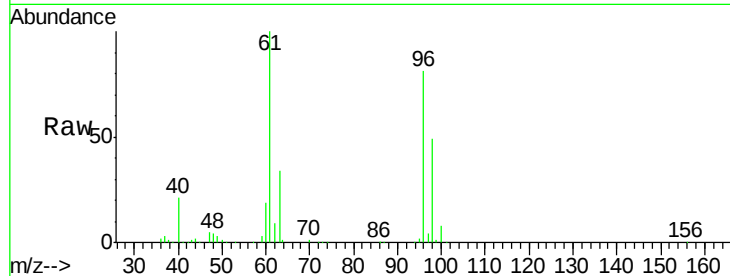
#27
 cis-1,2-Dichloroethene
 Concen: 47.812 ug/l
 RT: 3.50 min Scan# 291
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
96	100	155711		
61	123.2	0.0	239.0	
98	59.9	0.0	128.2	

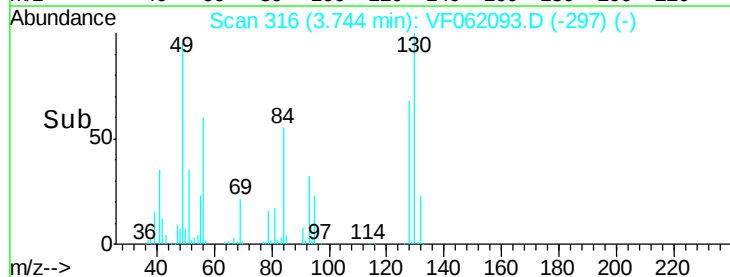
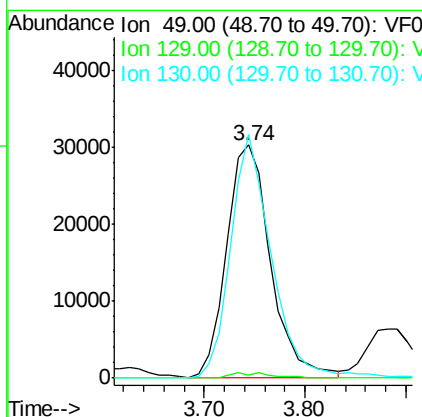
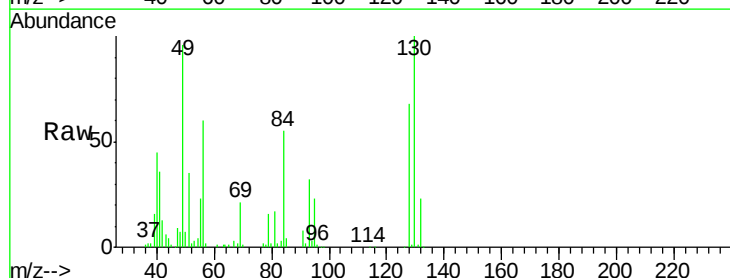
Manual Integrations
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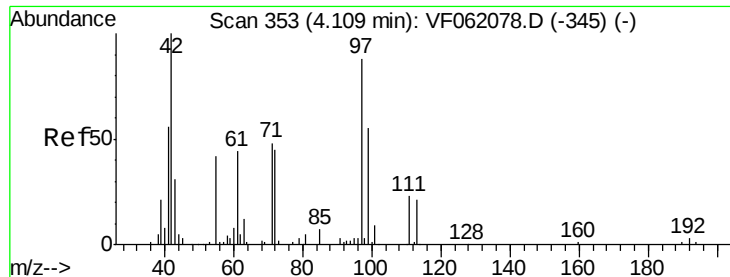
MMDadoda
 3/27/2019 11:57:22 AM



#28
 Bromochloromethane
 Concen: 51.834 ug/l
 RT: 3.74 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	90807		
129	1.4	0.0	5.6	
130	104.4	75.5	113.3	





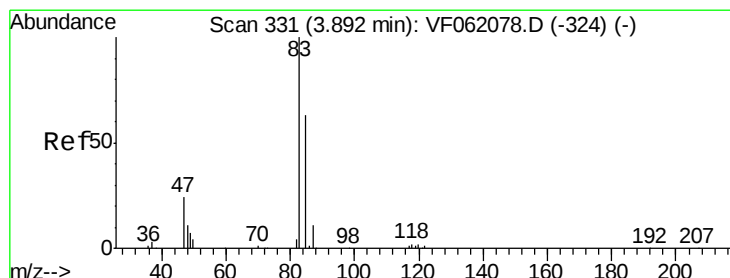
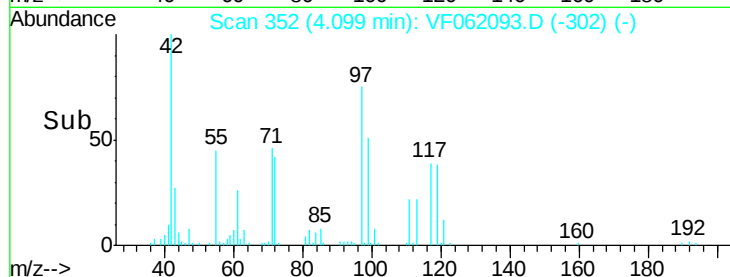
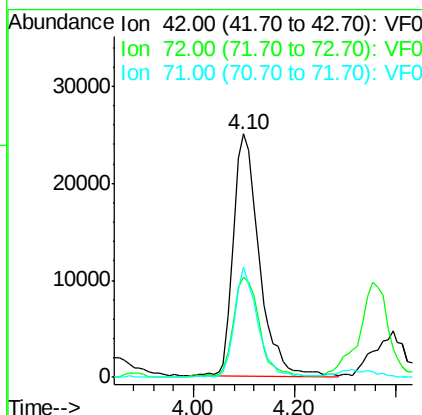
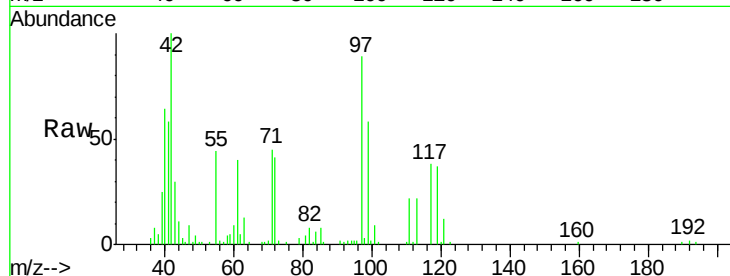
#29
Tetrahydrofuran
Concen: 233.391 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.0	33.3	49.9
71	40.5	35.0	52.4

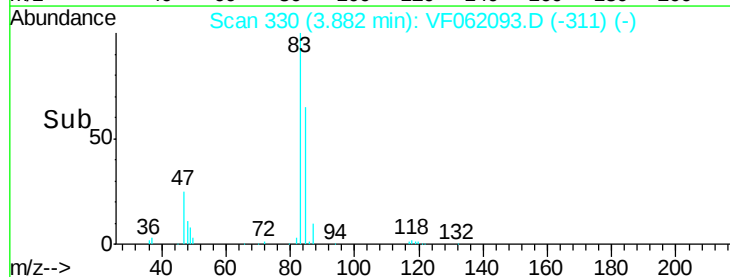
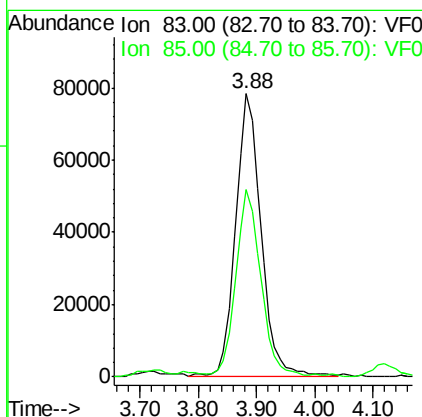
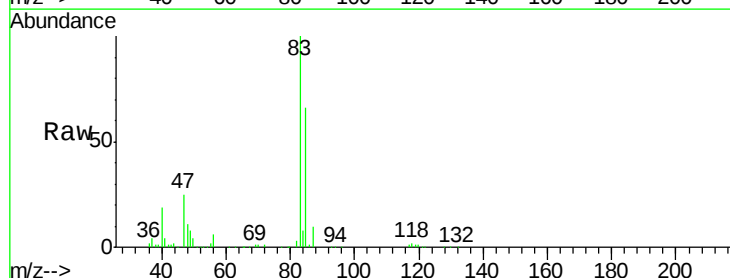
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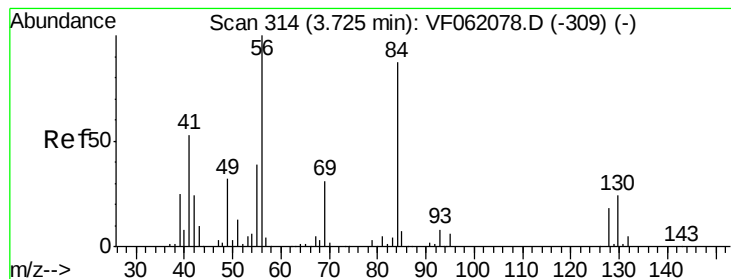
MMDadoda
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#30
Chloroform
Concen: 52.909 ug/l
RT: 3.88 min Scan# 330
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	51.5	77.3





#31

Cyclohexane

Concen: 48.306 ug/l m

RT: 3.71 min Scan# 313

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 56 Resp: 216325

Ion Ratio Lower Upper

56 100

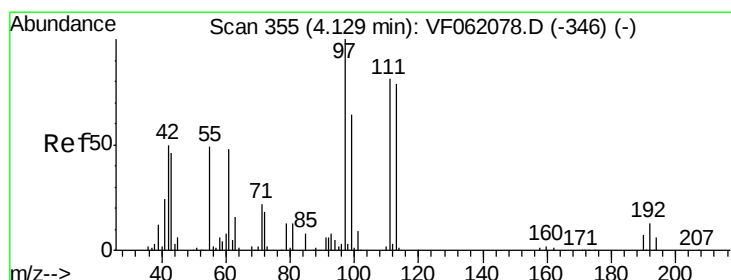
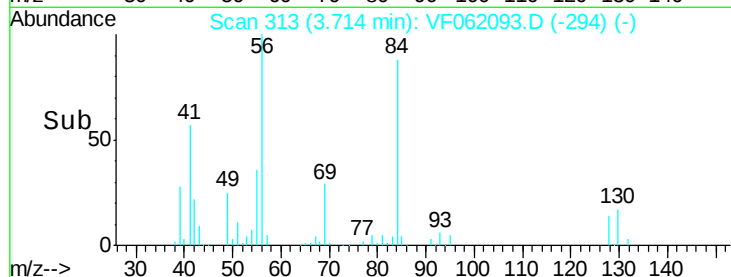
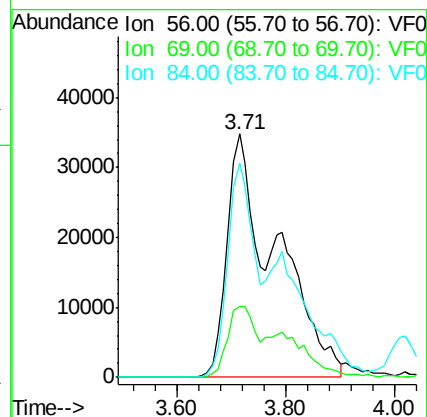
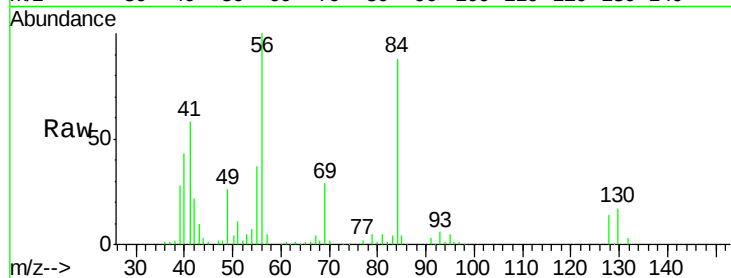
69 29.0 25.9 38.9

84 88.0 71.1 106.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 53.976 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

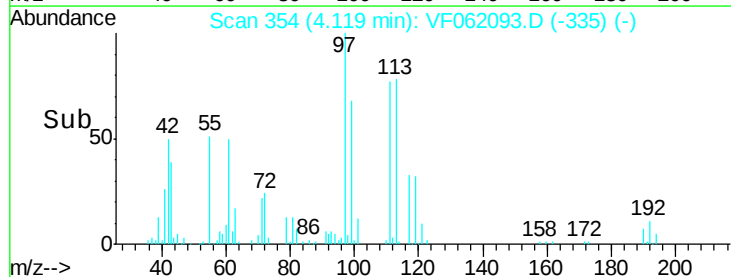
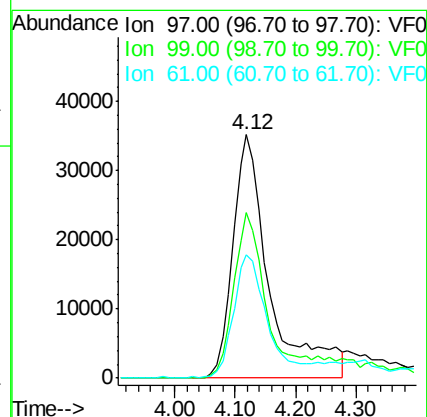
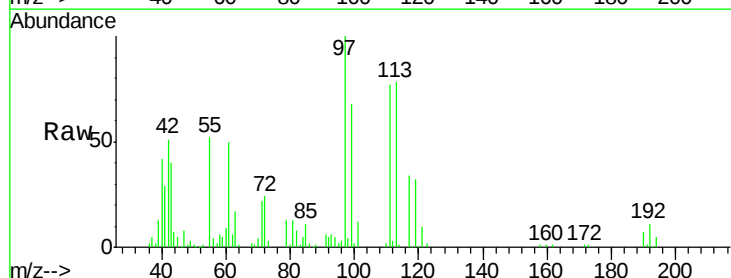
Tgt Ion: 97 Resp: 148786

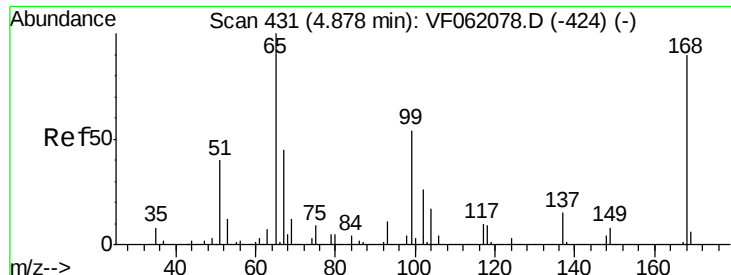
Ion Ratio Lower Upper

97 100

99 68.1 51.3 76.9

61 50.4 39.0 58.6





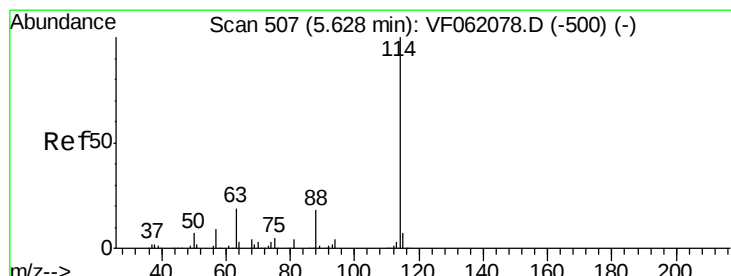
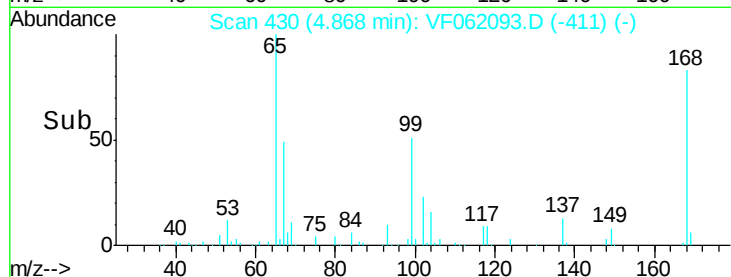
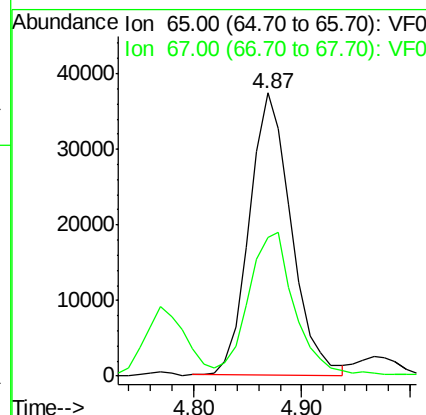
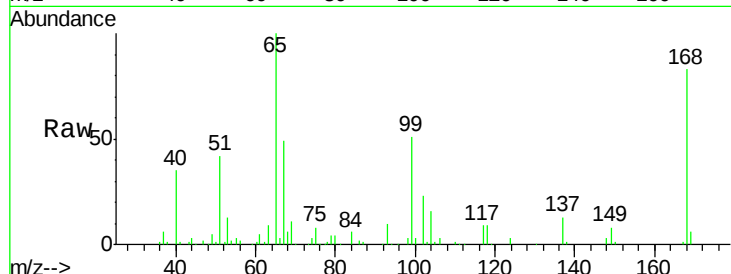
#33
 1,2-Dichloroethane-d4
 Concen: 51.148 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
65	100	100816		
67	49.2	0.0	106.2	

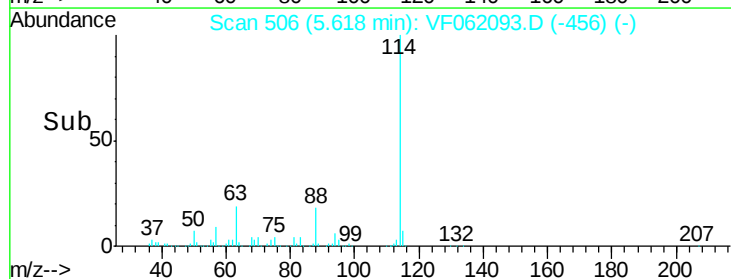
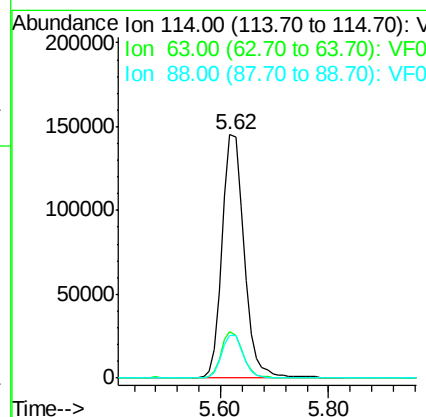
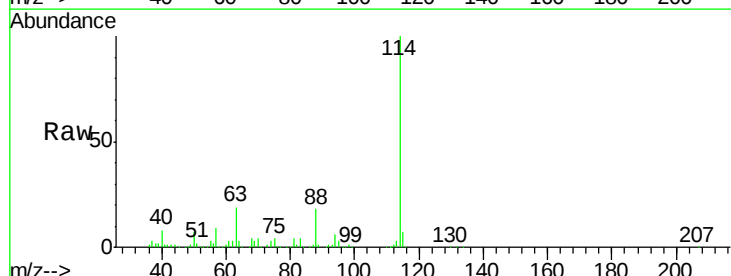
Manual Integrations
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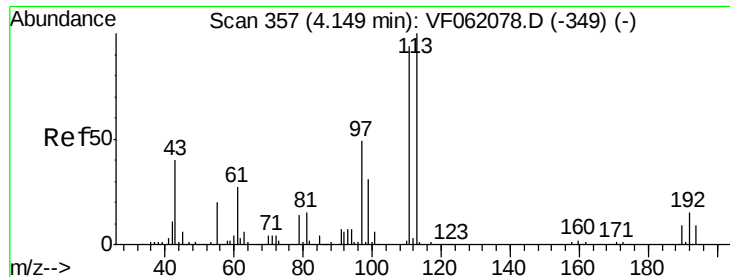
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	410732		
63	19.1	0.0	37.8	
88	17.8	0.0	36.4	





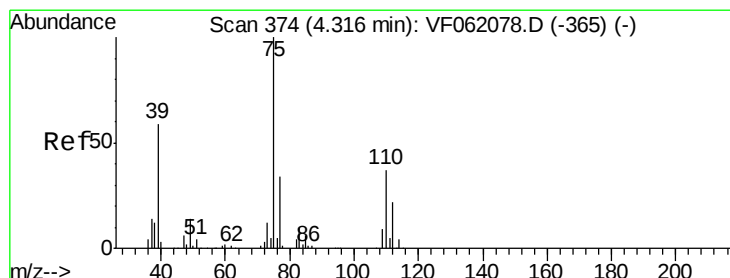
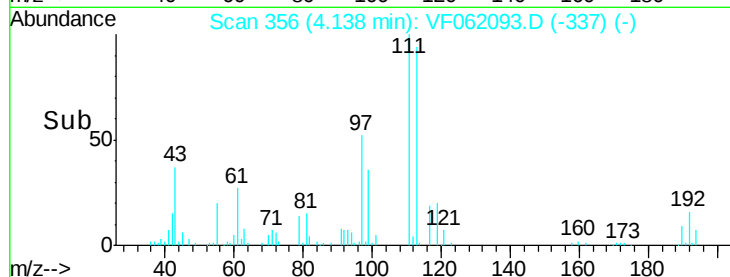
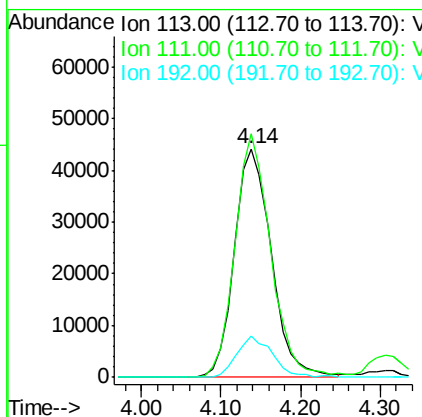
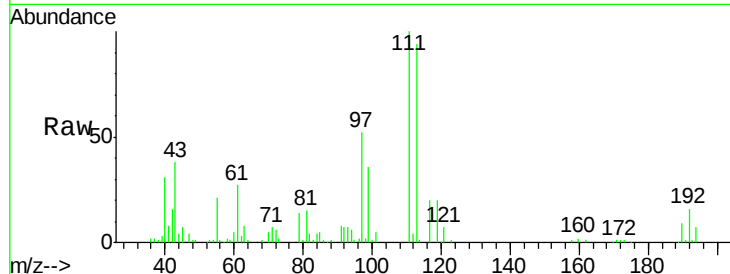
#35
Dibromofluoromethane
Concen: 51.072 ug/l
RT: 4.14 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
113	100	141901		
111	106.4	75.4	113.0	
192	18.1	12.3	18.5	

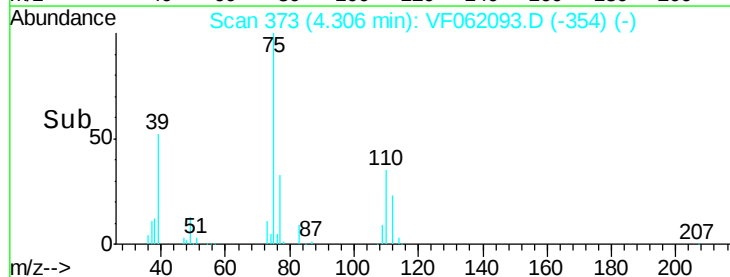
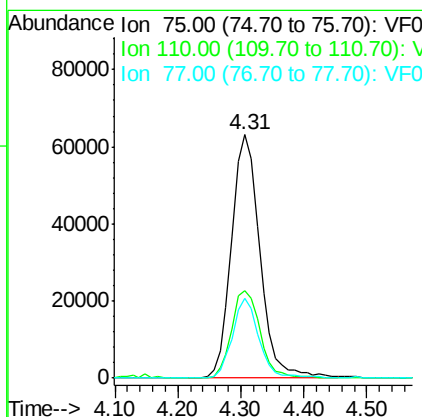
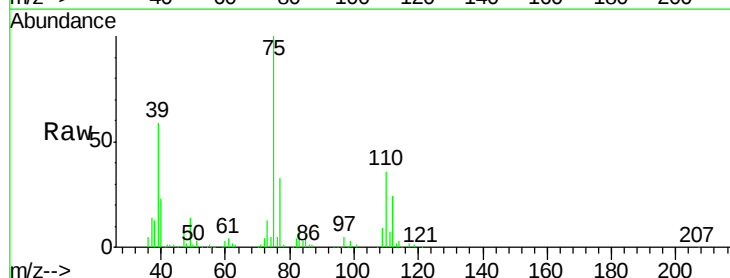
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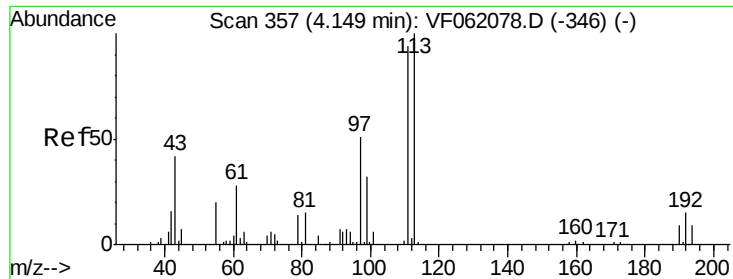
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#36
1,1-Dichloropropene
Concen: 50.254 ug/l
RT: 4.31 min Scan# 373
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	196603		
110	35.9	18.5	55.5	
77	33.0	27.4	41.0	





#37

Ethyl Acetate

Concen: 44.300 ug/l

RT: 4.15 min Scan# 357

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

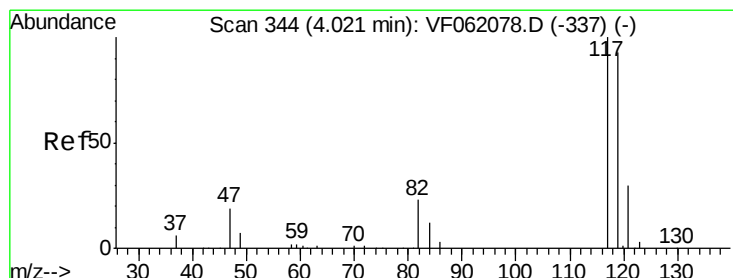
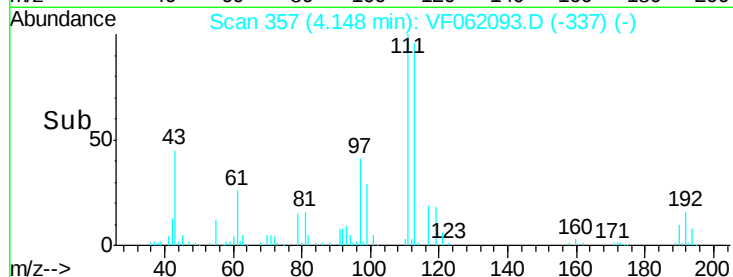
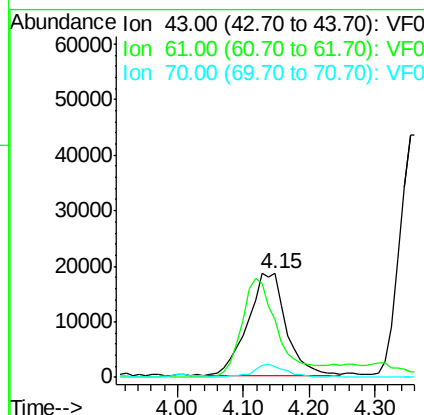
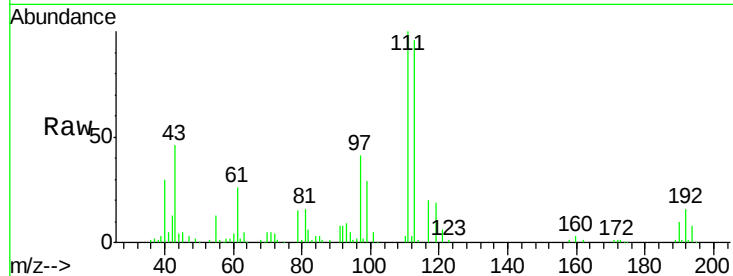
ClientSampleID :

VSTDCCC050

Tot Ion:	43	Resp:	75742
Ion	Ratio	Lower	Upper
43	100		
61	56.0	53.6	80.4
70	10.4	9.0	13.6

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#38

Carbon Tetrachloride

Concen: 48.146 ug/l

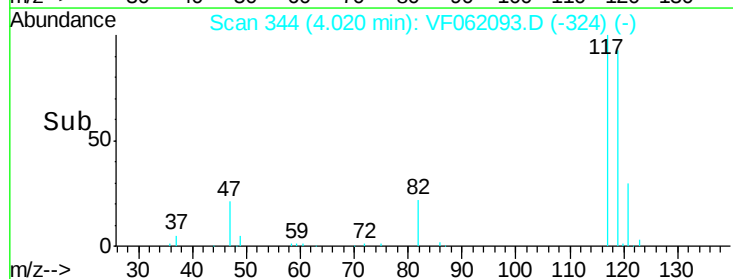
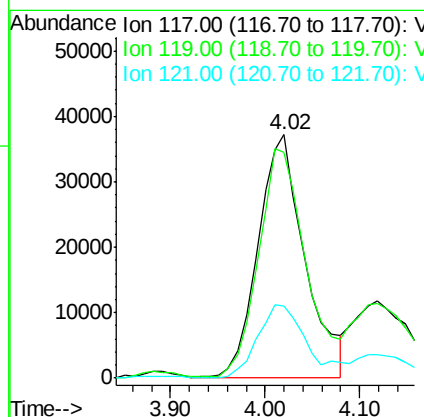
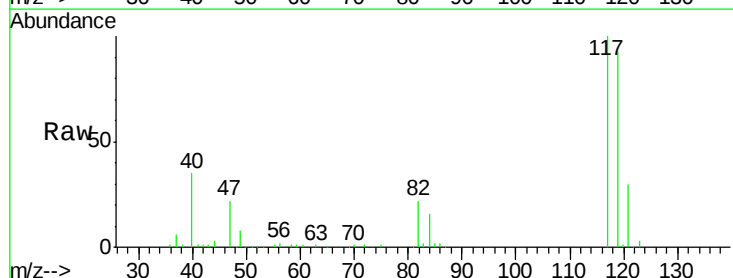
RT: 4.02 min Scan# 344

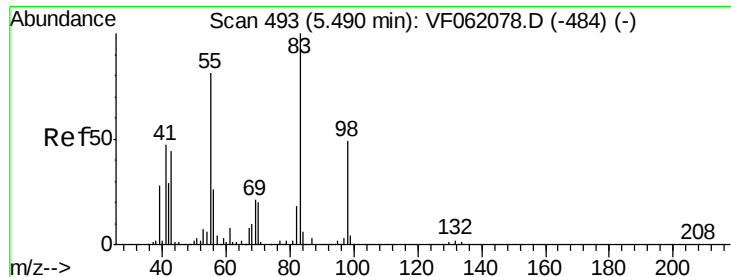
Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion:	117	Resp:	128380
Ion	Ratio	Lower	Upper
117	100		
119	92.8	74.7	112.1
121	30.0	23.6	35.4





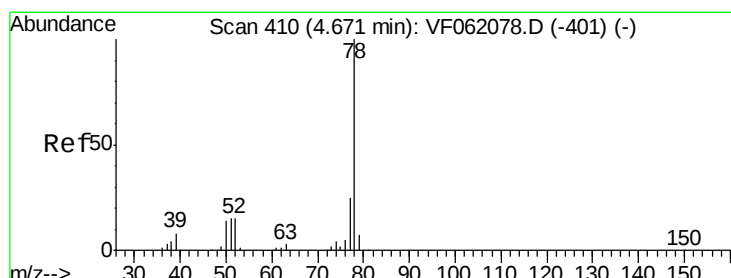
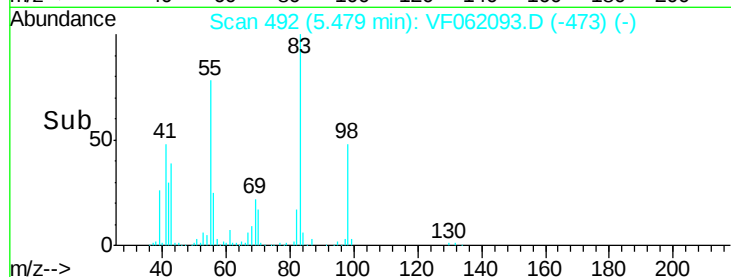
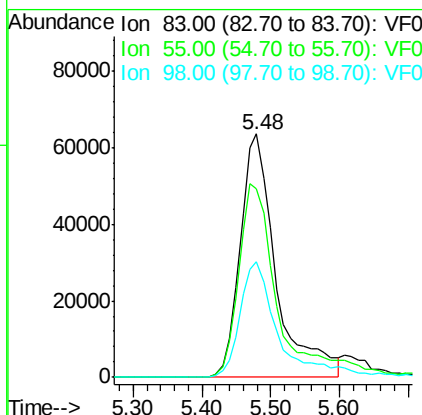
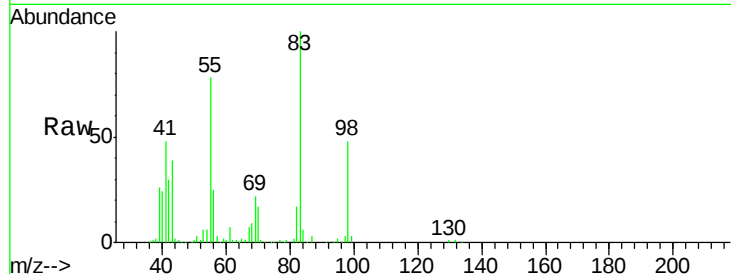
#39
Methvlcvclohexane
Concen: 50.888 ug/l
RT: 5.48 min Scan# 492
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.7	64.5	96.7
98	47.7	39.1	58.7

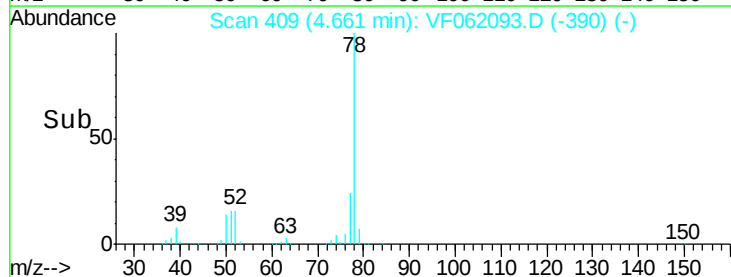
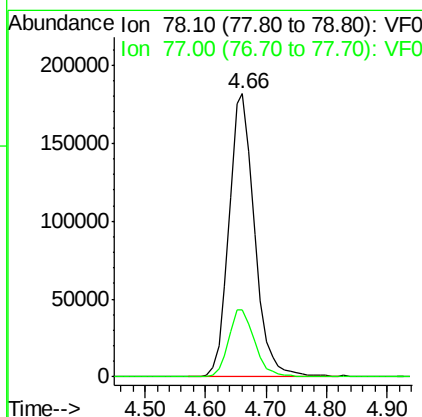
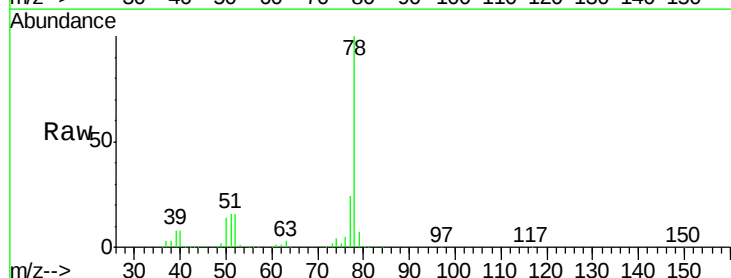
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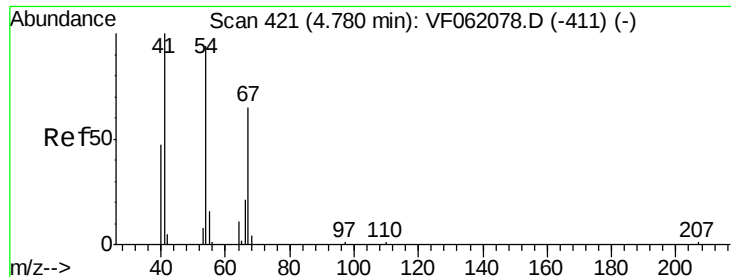
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#40
Benzene
Concen: 51.015 ug/l
RT: 4.66 min Scan# 409
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.8	29.6





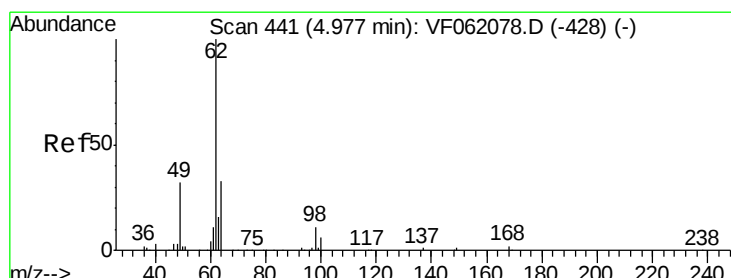
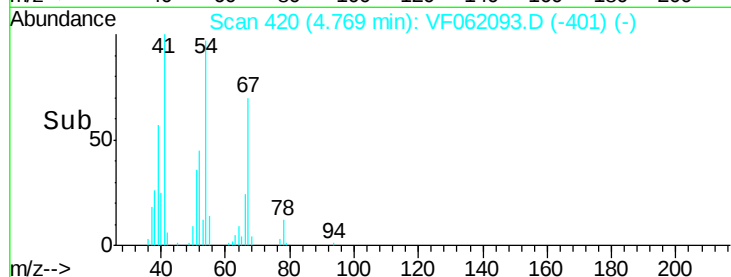
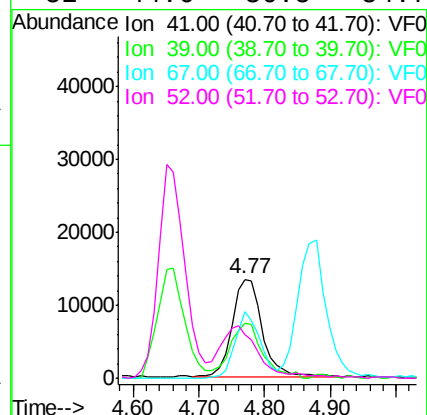
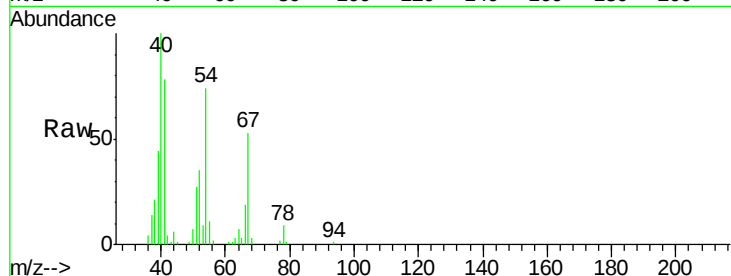
#41
Methacrylonitrile
Concen: 47.854 ug/l
RT: 4.77 min Scan# 420
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Lower	Upper
43291	41	100		
	39	55.7	43.5	65.3
	67	67.5	51.6	77.4
	52	44.6	36.5	54.7

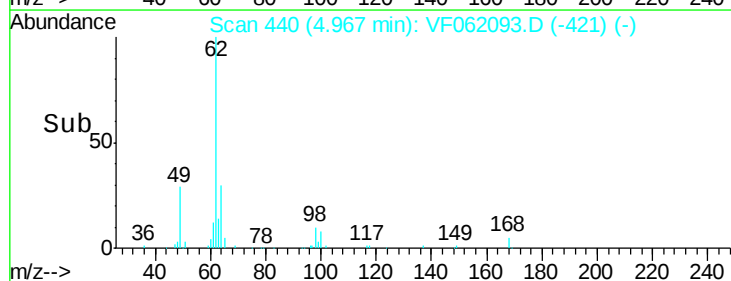
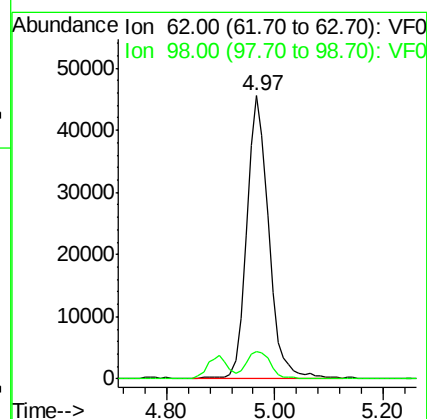
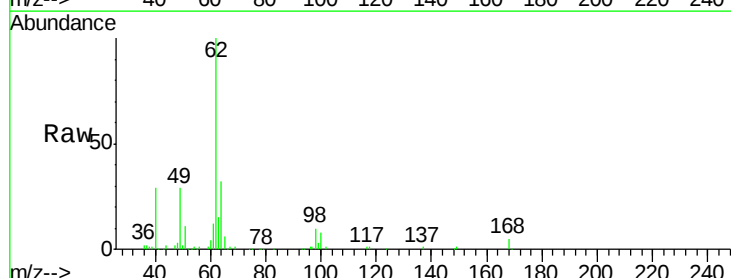
Manual Integrations
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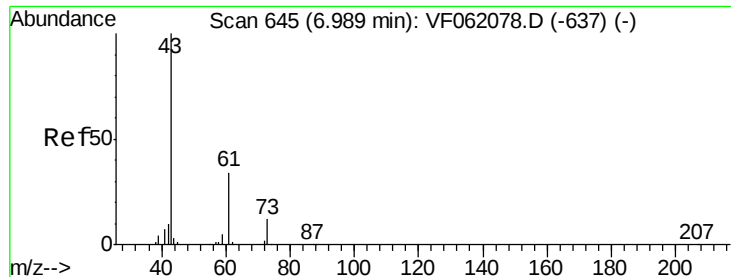
MMDadoda
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#42
1,2-Dichloroethane
Concen: 51.951 ug/l
RT: 4.97 min Scan# 440
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion	Ion	Ratio	Lower	Upper
128846	62	100		
	98	9.6	0.0	23.2





#43

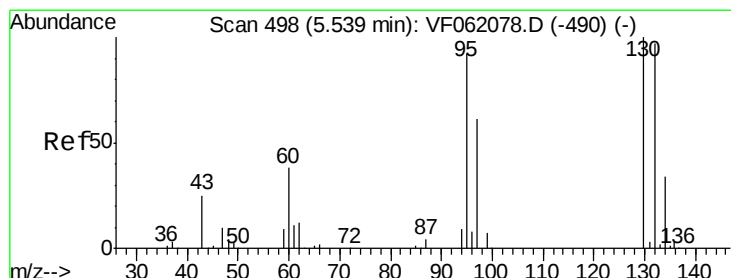
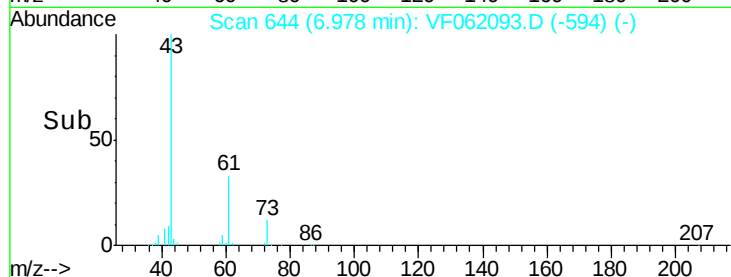
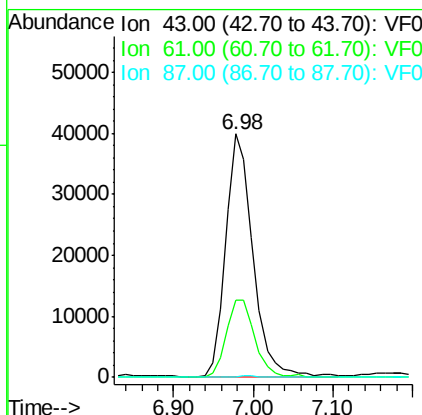
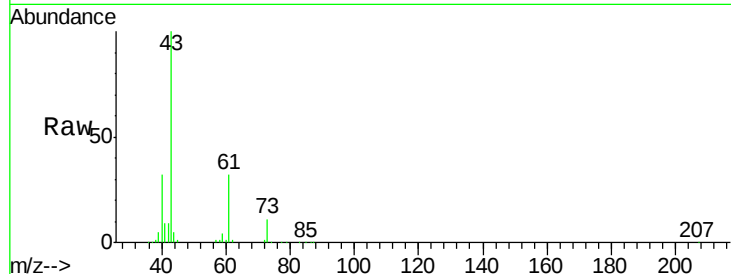
Isopropyl Acetate
 Concen: 46.660 ug/l
 RT: 6.98 min Scan# 644
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.5	27.0	40.4
87	0.3	0.4	0.6

Manual Integrations
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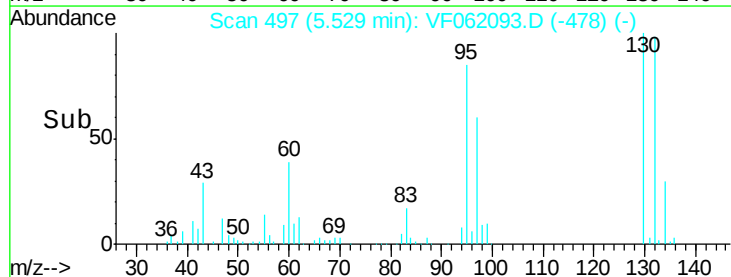
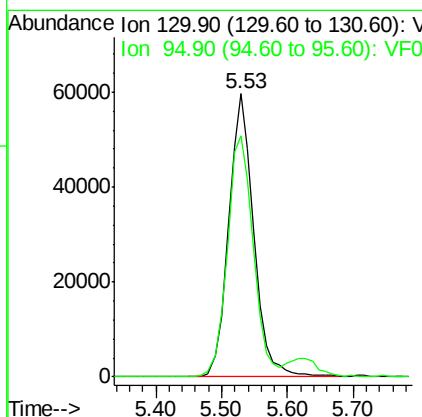
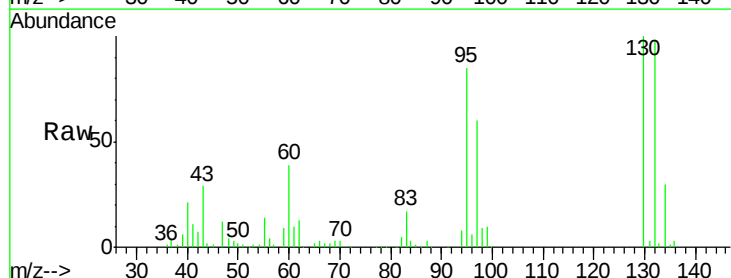
MMDadoda
 3/27/2019 11:57:22 AM

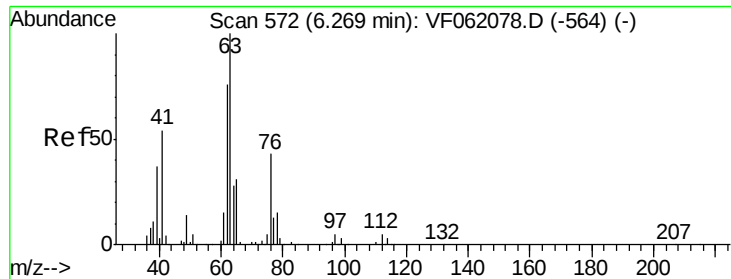


#44

Trichloroethene
 Concen: 49.549 ug/l
 RT: 5.53 min Scan# 497
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
130	100		
95	85.4	0.0	183.4





#45

1,2-Dichloropropane

Concen: 48.011 ug/l

RT: 6.26 min Scan# 571

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 63 Resp: 120098

Ion Ratio Lower Upper

63 100

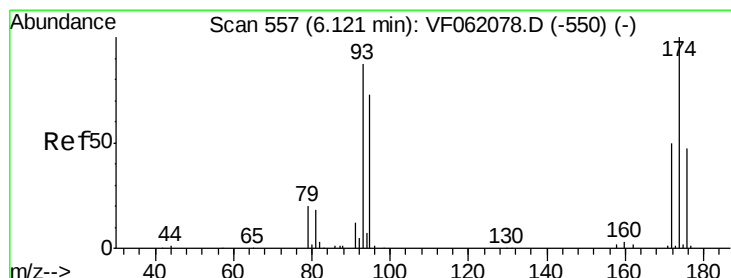
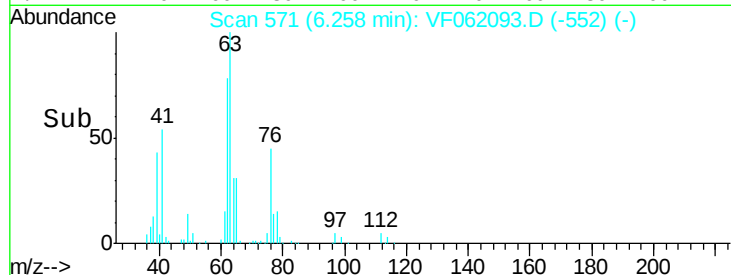
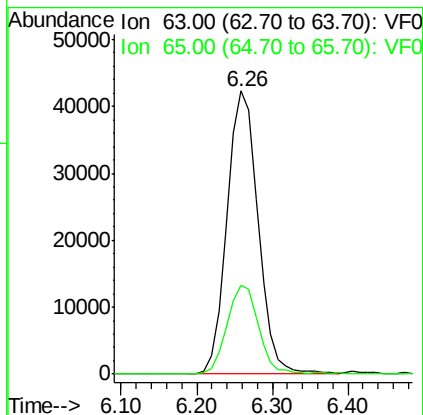
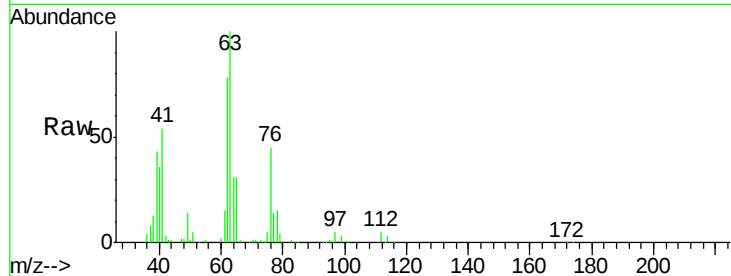
65 31.5 24.9 37.3

Manual Integrations

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#46

Dibromomethane

Concen: 48.787 ug/l

RT: 6.11 min Scan# 556

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

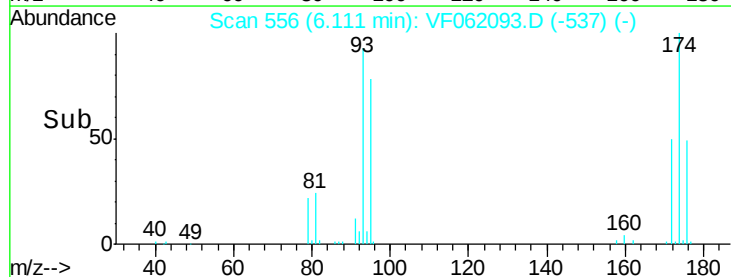
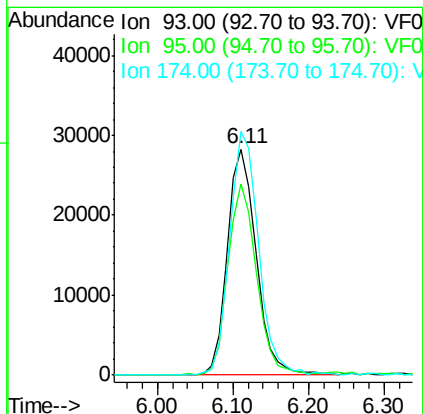
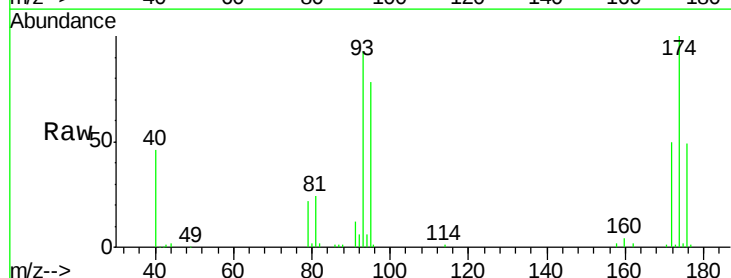
Tgt Ion: 93 Resp: 74619

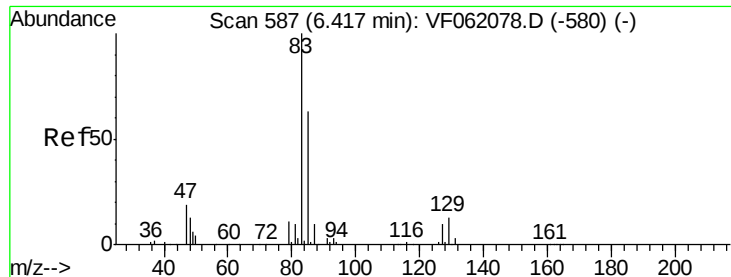
Ion Ratio Lower Upper

93 100

95 84.5 67.4 101.2

174 107.7 92.0 138.0





#47

Bromodichloromethane

Concen: 51.369 ug/l

RT: 6.41 min Scan# 586

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

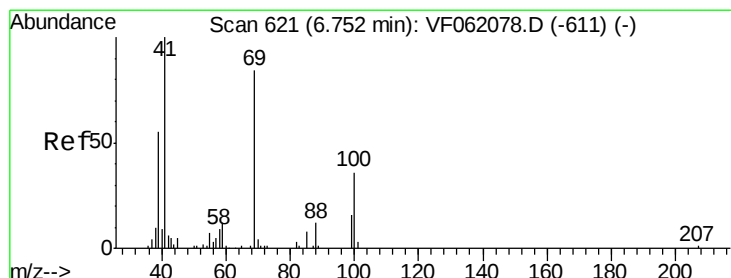
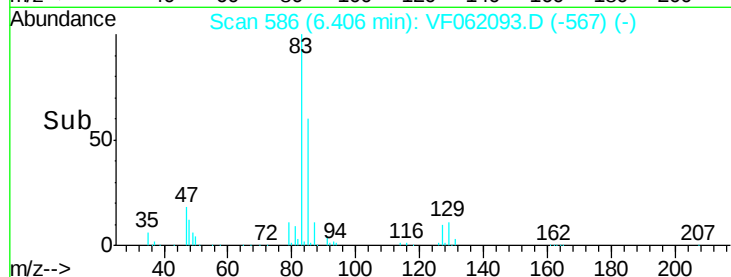
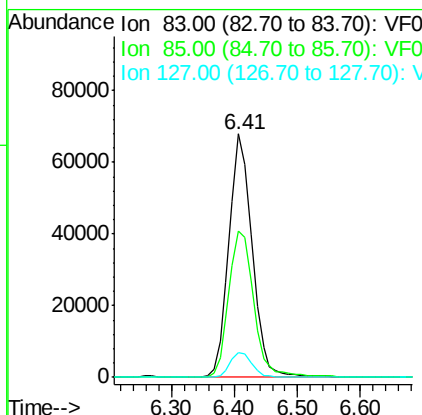
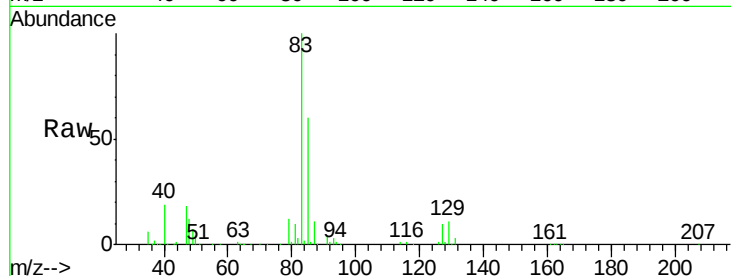
ClientSampleId :

VSTDCCC050

Tot Ion:	83	Resp:	174026
Ion	Ratio	Lower	Upper
83	100		
85	60.2	50.7	76.1
127	9.9	7.8	11.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 50.026 ug/l

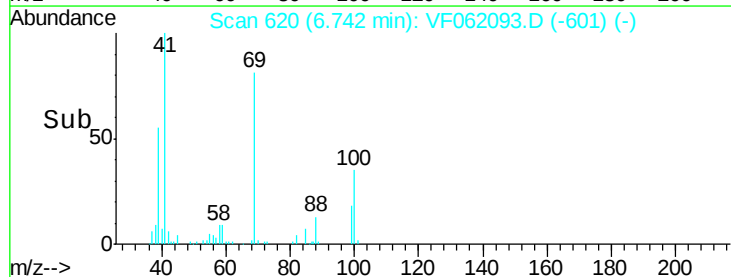
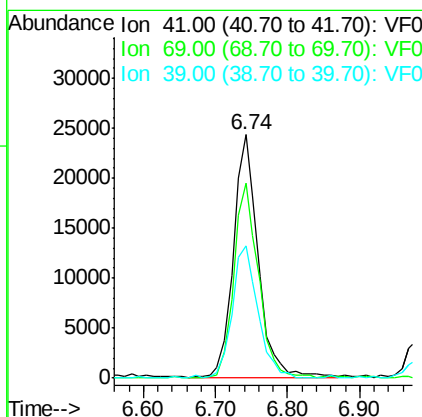
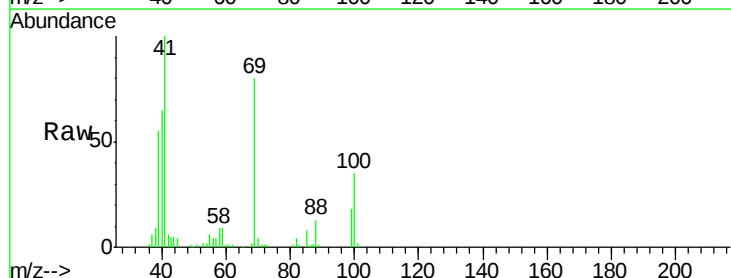
RT: 6.74 min Scan# 620

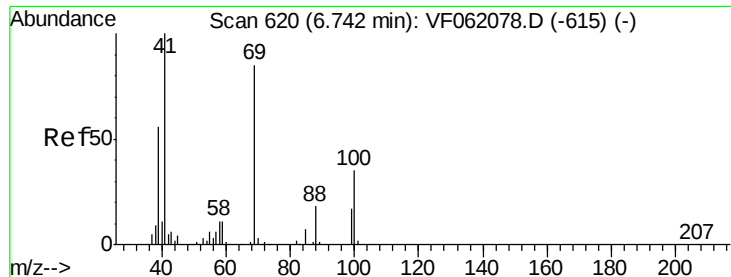
Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion:	41	Resp:	58978
Ion	Ratio	Lower	Upper
41	100		
69	79.8	66.6	100.0
39	54.6	43.6	65.4





#49

1,4-Dioxane

Concen: 962.511 ug/l

RT: 6.73 min Scan# 619

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

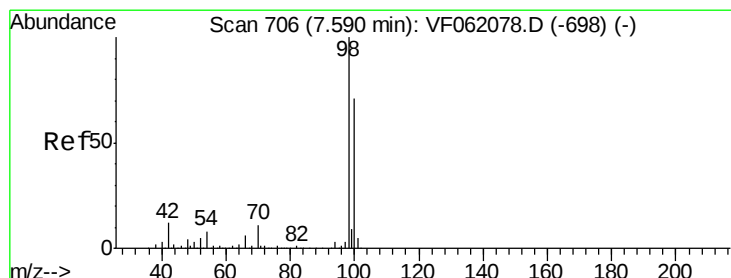
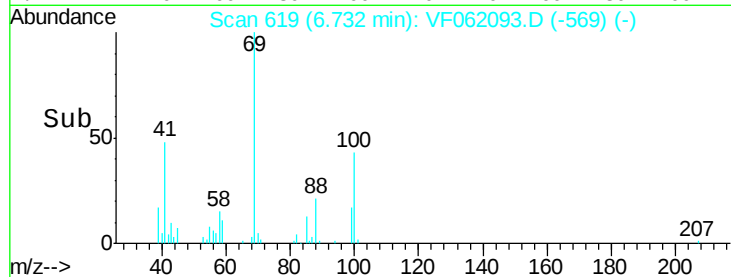
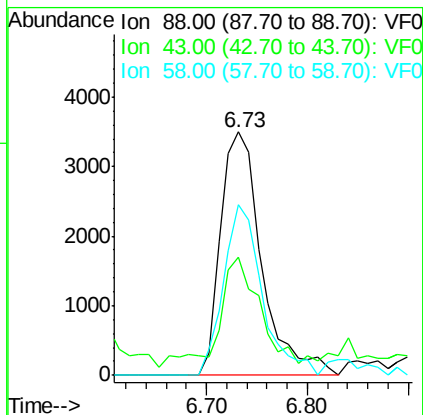
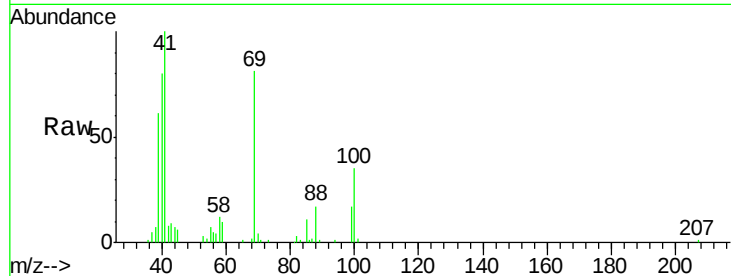
ClientSampleId :

VSTDCCC050

Tot Ion:	88	Resp:	9957
Ion	Ratio	Lower	Upper
88	100		
43	48.7	35.0	52.4
58	69.9	49.9	74.9

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#50

Toluene-d8

Concen: 51.386 ug/l

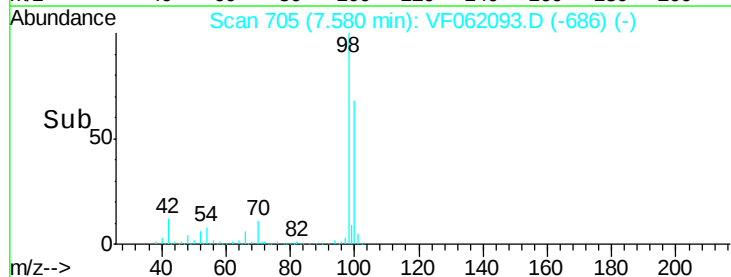
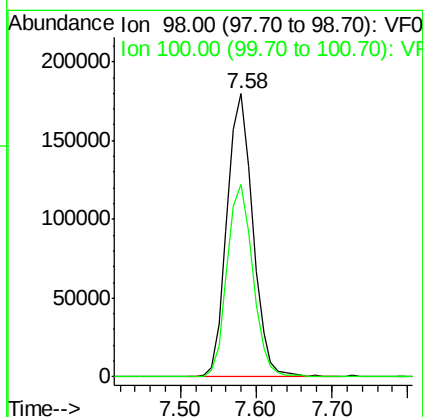
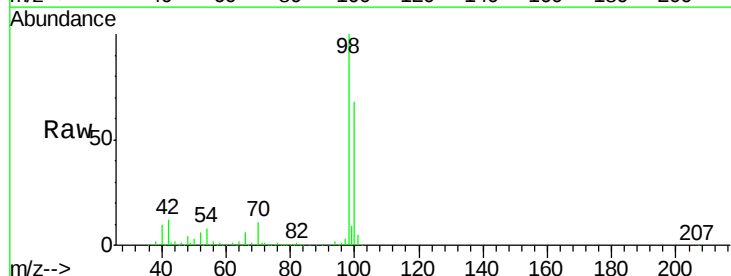
RT: 7.58 min Scan# 705

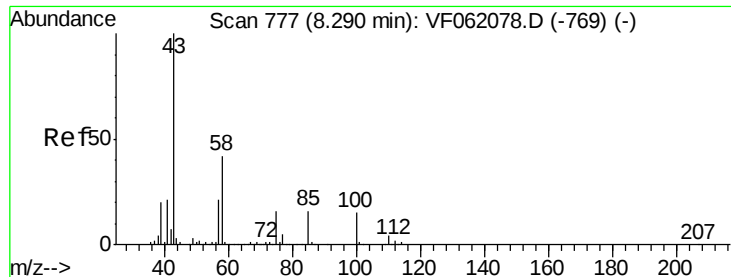
Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion:	98	Resp:	426178
Ion	Ratio	Lower	Upper
98	100		
100	67.9	57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 238.376 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 43 Resp: 330359

Ion Ratio Lower Upper

43 100

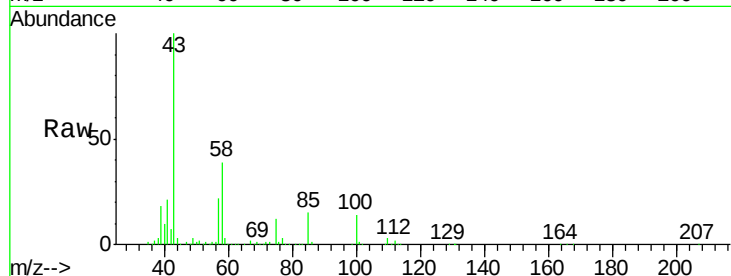
58 38.7 33.8 50.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

150000

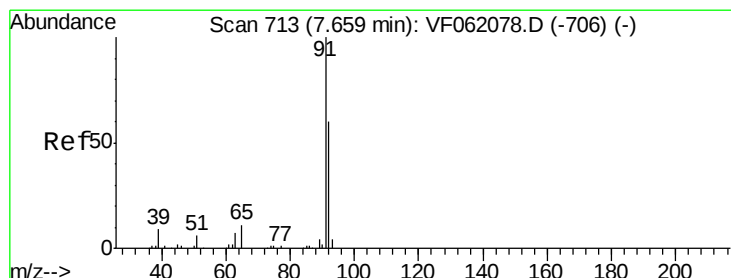
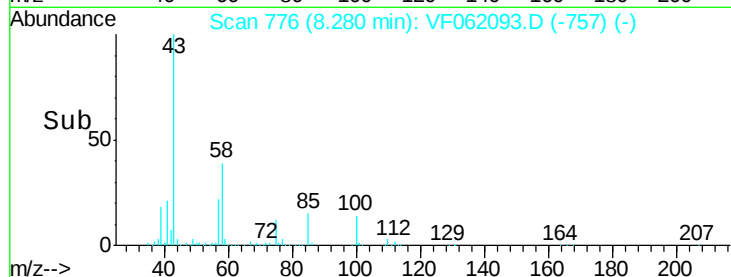
100000

50000

0

8.10 8.20 8.30 8.40 8.50

Time-->



#52

Toluene

Concen: 50.562 ug/l

RT: 7.65 min Scan# 712

Delta R.T. -0.01 min

Lab File: VF062093.D

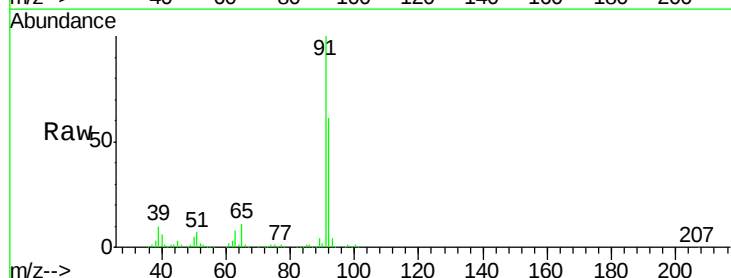
Acq: 22 Mar 2019 22:10

Tgt Ion: 92 Resp: 307145

Ion Ratio Lower Upper

92 100

91 163.1 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

250000

200000

150000

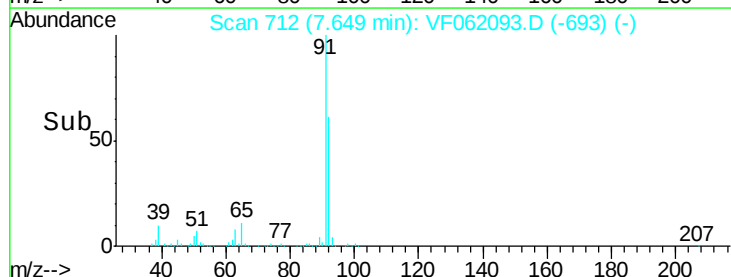
100000

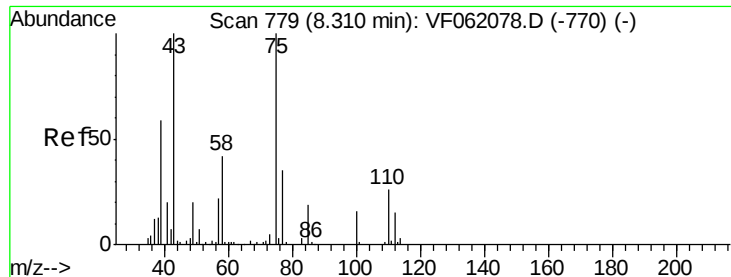
50000

0

7.50 7.60 7.70 7.80

Time-->





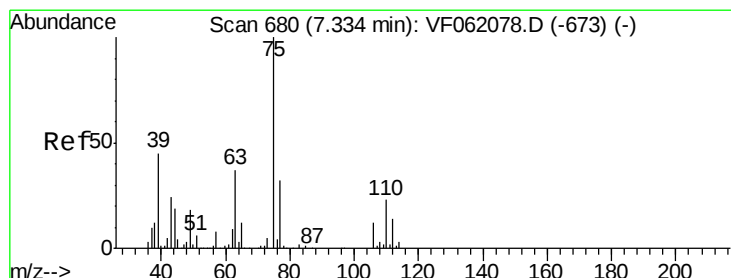
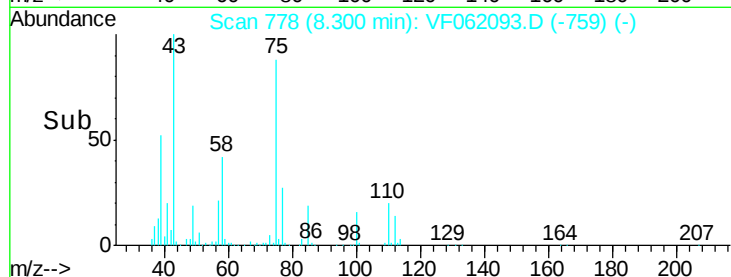
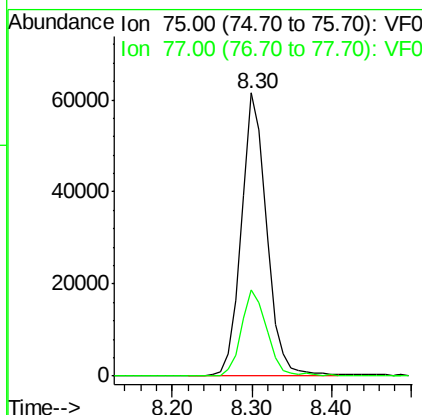
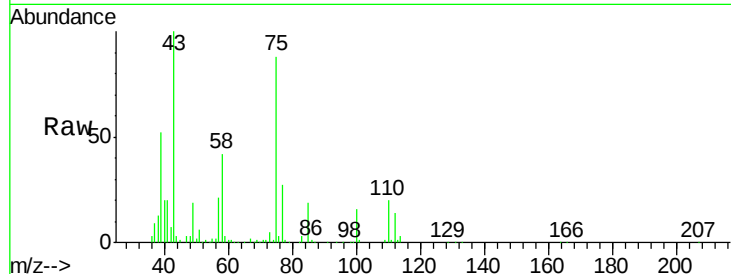
#53
 t-1,3-Dichloropropene
 Concen: 50.878 ug/l
 RT: 8.30 min Scan# 778
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.3	28.0	42.0

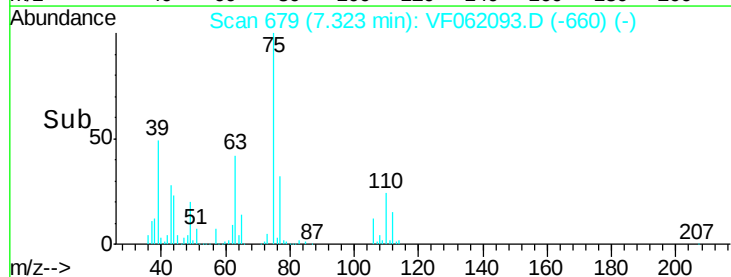
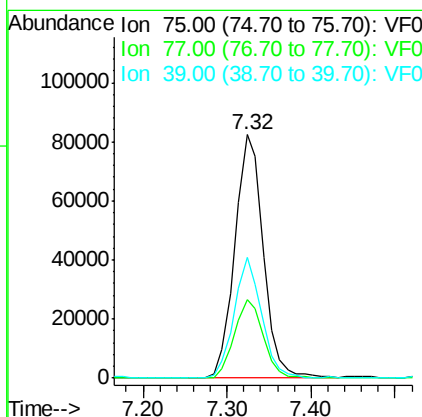
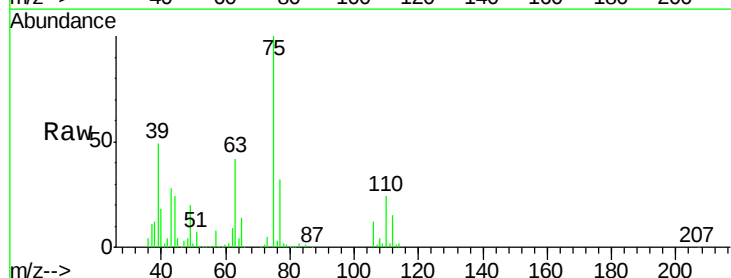
Manual Integrations
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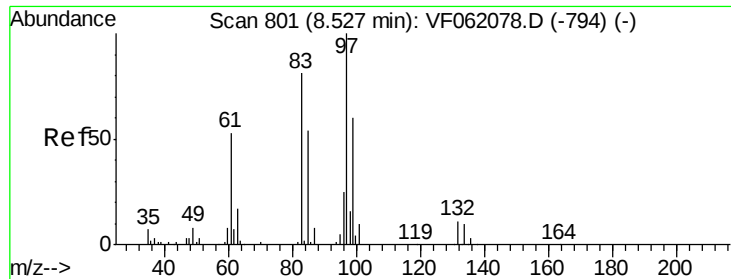
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 3/27/2019 11:57:22 AM



#54
 cis-1,3-Dichloropropene
 Concen: 51.098 ug/l
 RT: 7.32 min Scan# 679
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.8	38.6
39	49.5	35.9	53.9





#55

1,1,2-Trichloroethane

Concen: 50.283 ug/l

RT: 8.52 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

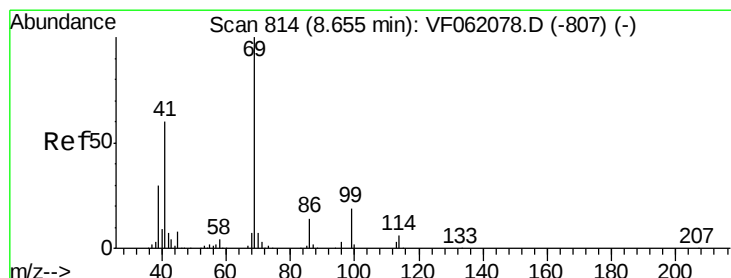
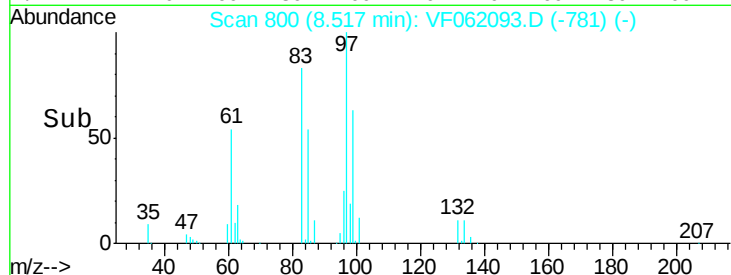
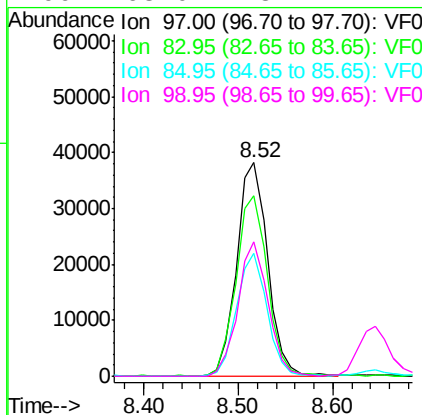
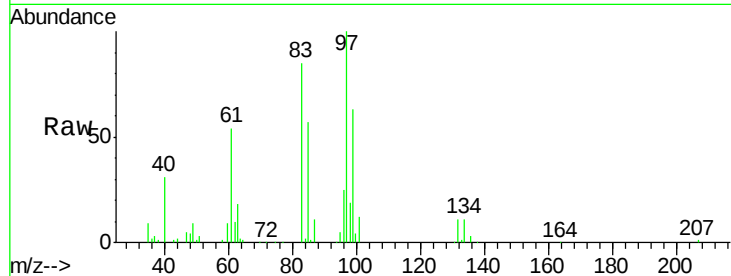
ClientSampleId :

VSTDCCC050

Tot Ion:	97	Resp:	86763
Ion	Ratio	Lower	Upper
97	100		
83	84.5	64.6	97.0
85	57.5	43.6	65.4
99	63.0	48.2	72.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 50.418 ug/l

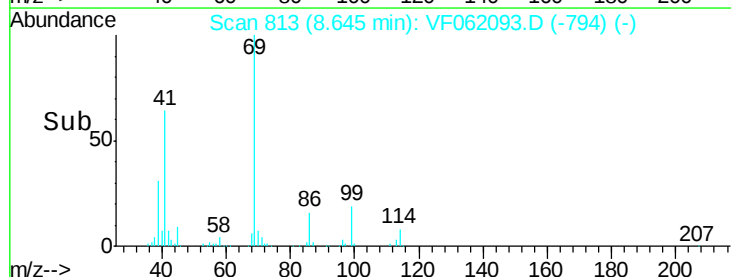
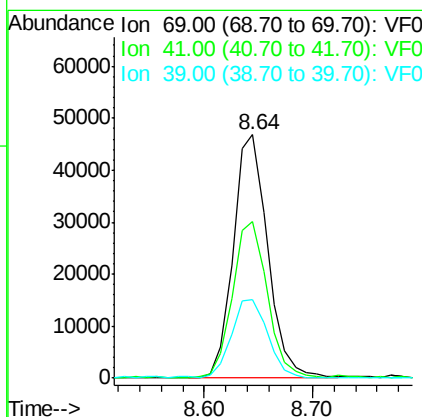
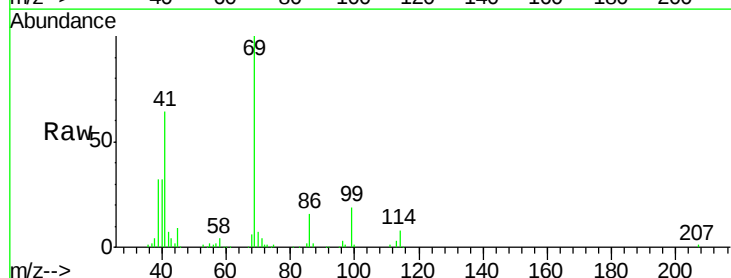
RT: 8.64 min Scan# 813

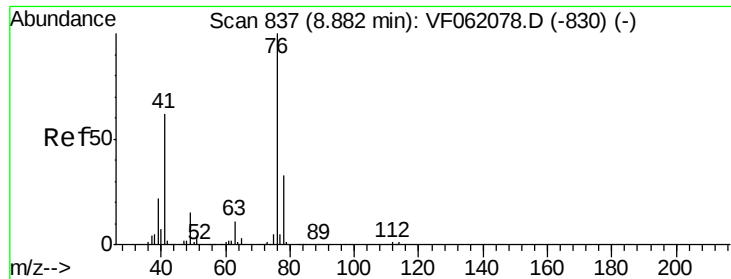
Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion:	69	Resp:	103751
Ion	Ratio	Lower	Upper
69	100		
41	64.2	48.2	72.2
39	32.0	24.0	36.0





#57

1,3-Dichloropropane

Concen: 50.339 ug/l

RT: 8.88 min Scan# 837

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 76 Resp: 144161

Ion Ratio Lower Upper

76 100

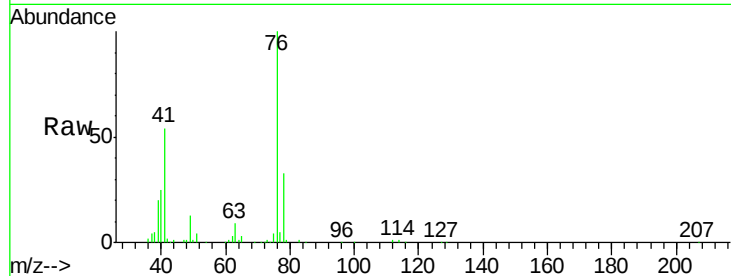
78 33.1 26.6 39.8

Manual Integrations

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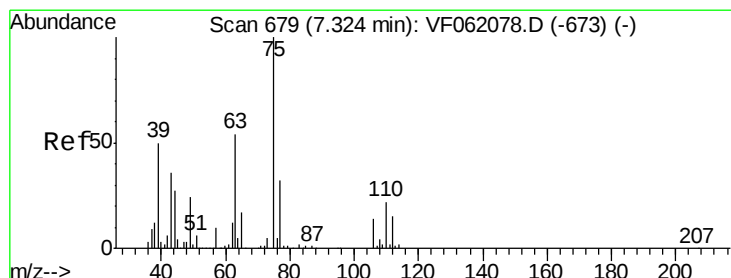
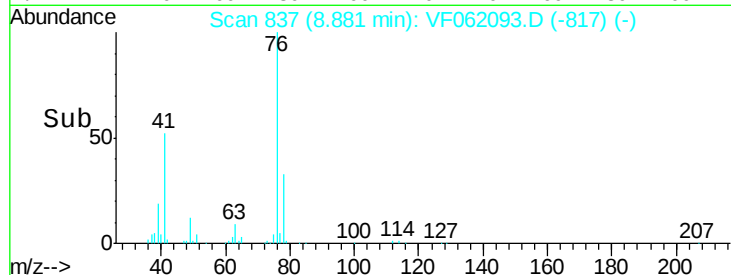
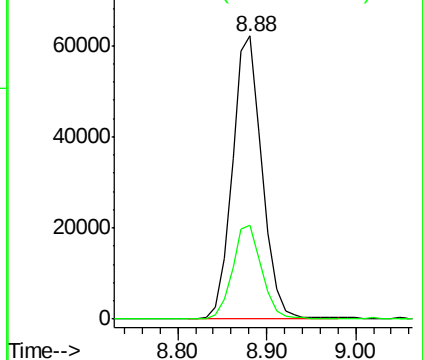
MMDadoda

3/27/2019 11:57:22 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 259.793 ug/l

RT: 7.32 min Scan# 679

Delta R.T. -0.00 min

Lab File: VF062093.D

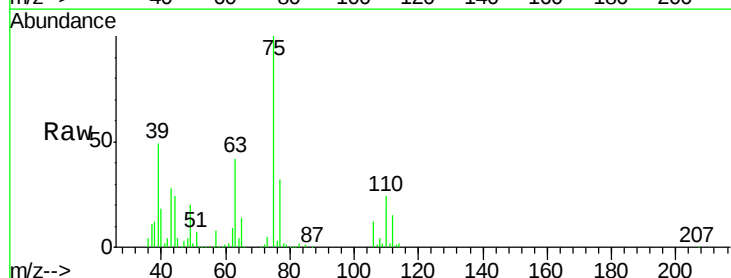
Acq: 22 Mar 2019 22:10

Tgt Ion: 63 Resp: 81123

Ion Ratio Lower Upper

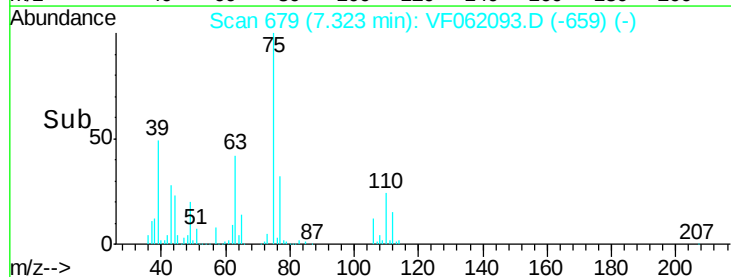
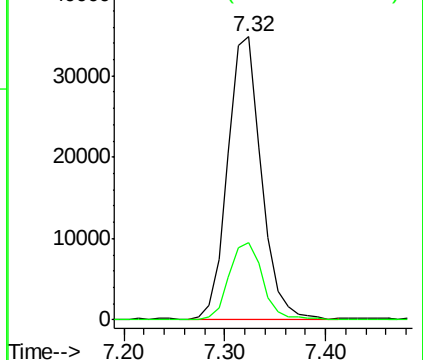
63 100

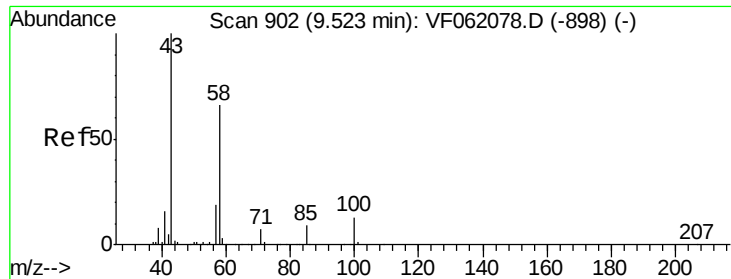
106 27.3 21.5 32.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





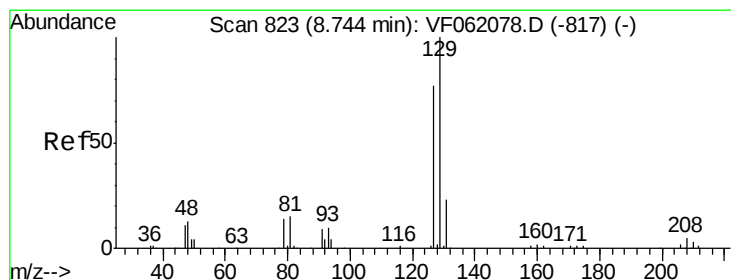
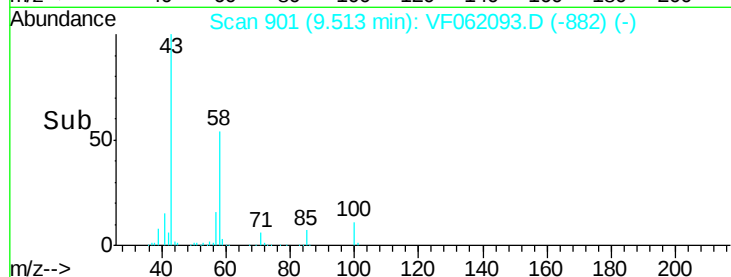
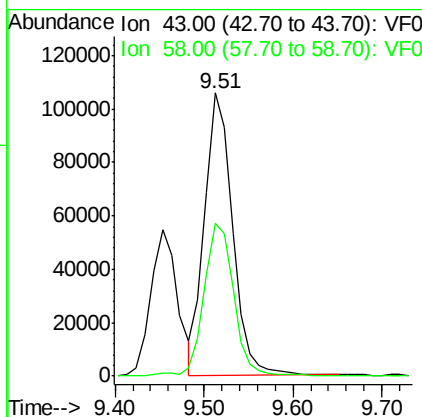
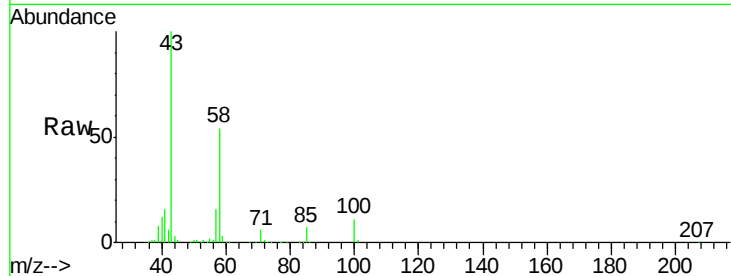
#59
2-Hexanone
Concen: 227.368 ug/l
RT: 9.51 min Scan# 901
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 230942
Ion Ratio Lower Upper
43 100
58 54.2 28.8 86.4

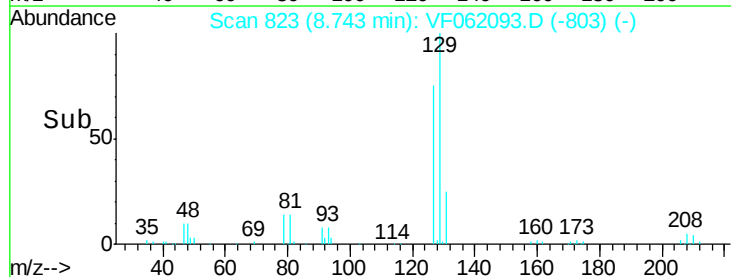
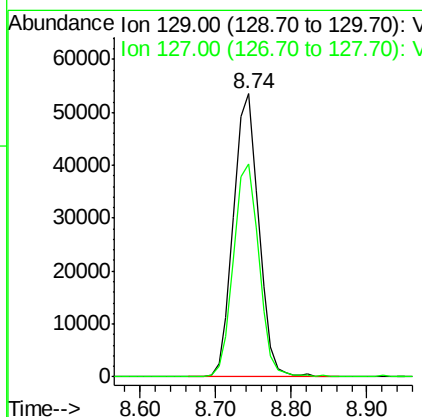
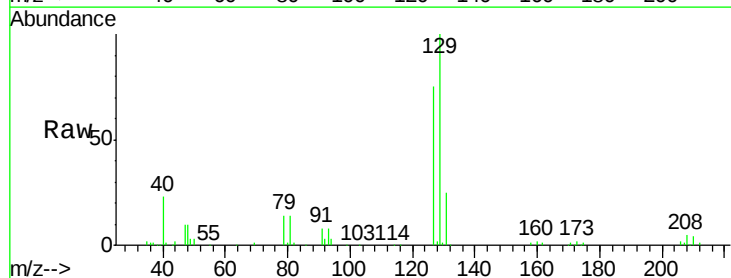
Manual Integrations
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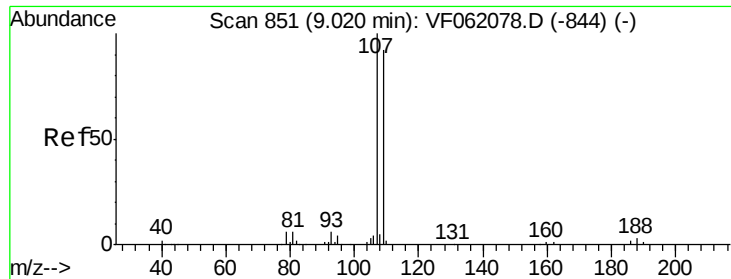
MMDadoda
3/27/2019 11:57:22 AM



#60
Dibromochloromethane
Concen: 51.577 ug/l
RT: 8.74 min Scan# 823
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 129 Resp: 123719
Ion Ratio Lower Upper
129 100
127 75.4 38.7 116.1





#61

1,2-Dibromoethane

Concen: 49.382 ug/l

RT: 9.01 min Scan# 850

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:107 Resp: 90906

Ion Ratio Lower Upper

107 100

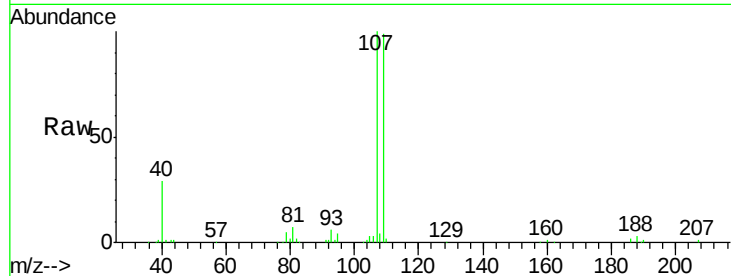
109 99.3 73.4 110.0

Manual Integrations

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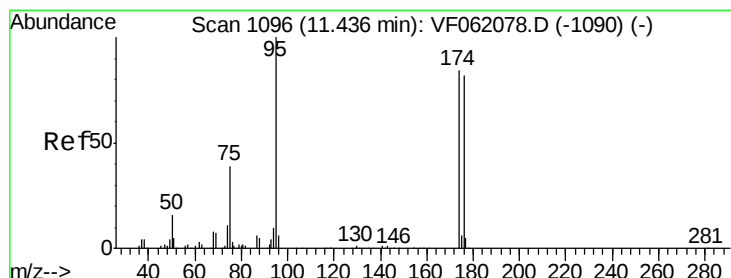
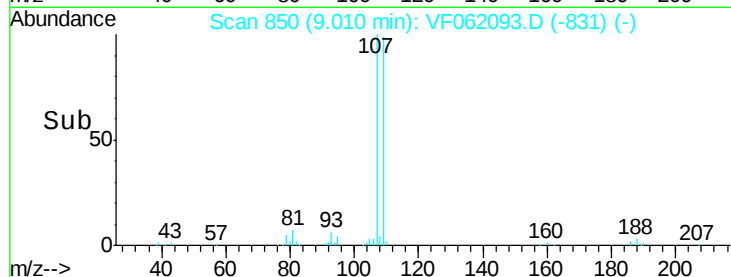
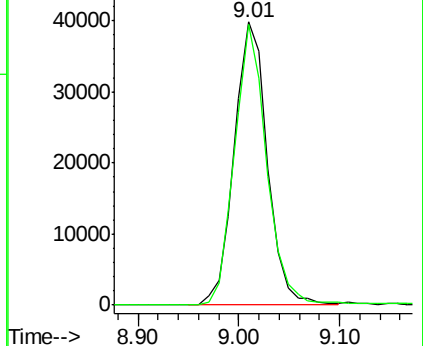
MMDadoda

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Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#62

4-Bromofluorobenzene

Concen: 51.369 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

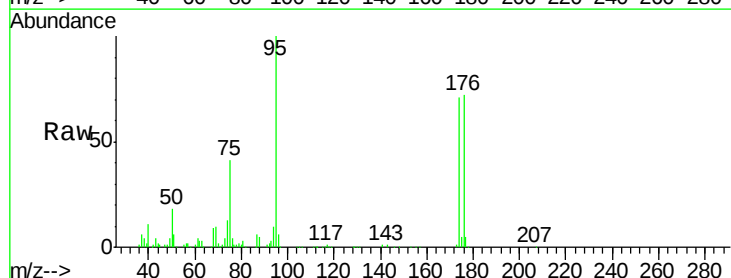
Tgt Ion: 95 Resp: 164474

Ion Ratio Lower Upper

95 100

174 71.0 0.0 168.2

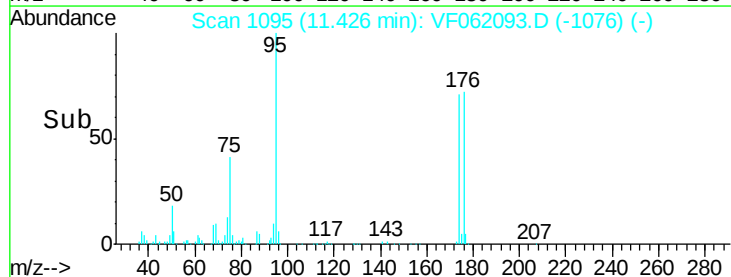
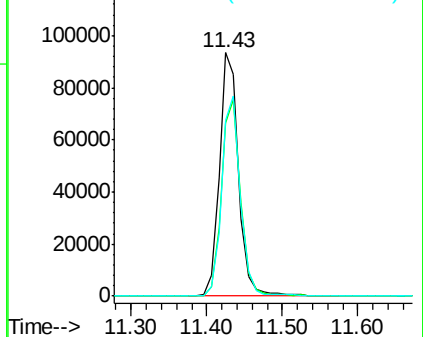
176 72.0 0.0 164.2

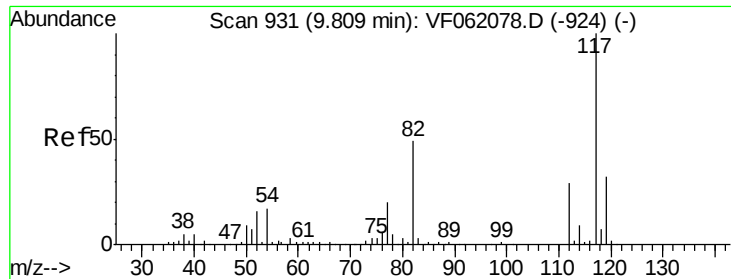


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V





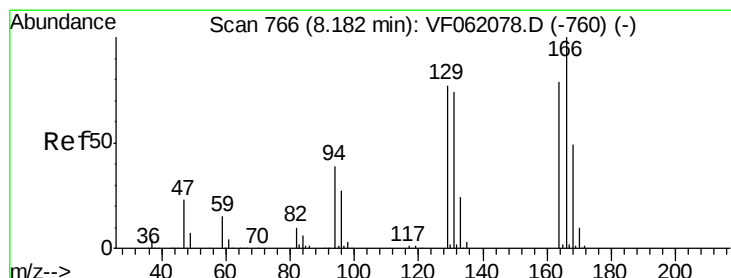
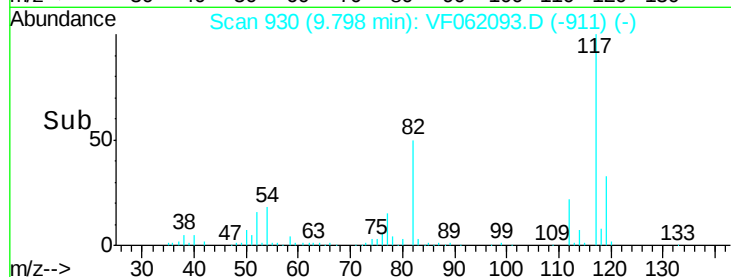
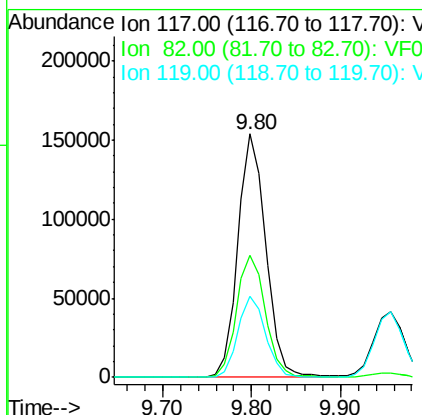
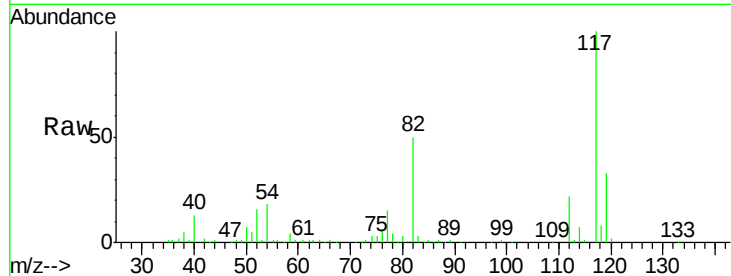
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	50.2	39.2	58.8
119	33.0	25.4	38.2

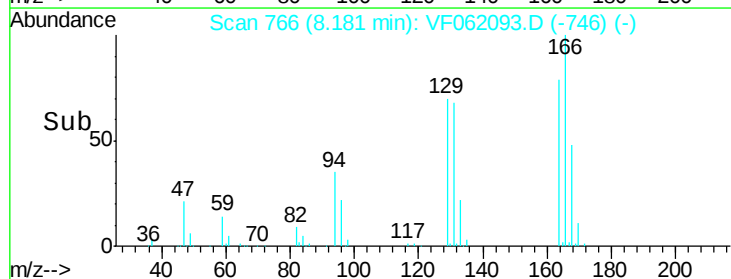
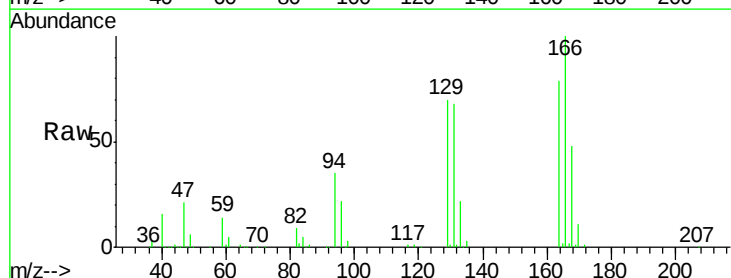
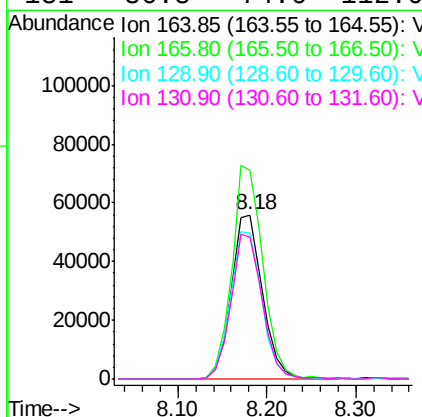
Manual Integrations
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#64
Tetrachloroethene
Concen: 52.868 ug/l
RT: 8.18 min Scan# 766
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.4	100.9	151.3
129	88.9	77.9	116.9
131	86.8	74.6	112.0





#65

Chlorobenzene

Concen: 51.994 ug/l

RT: 9.82 min Scan# 932

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:112 Resp: 327149

Ion Ratio Lower Upper

112 100

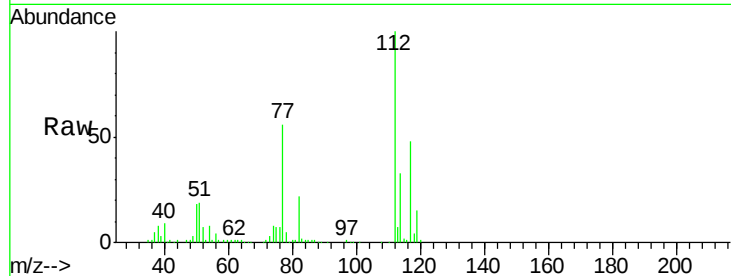
114 32.6 26.0 39.0

Manual Integrations

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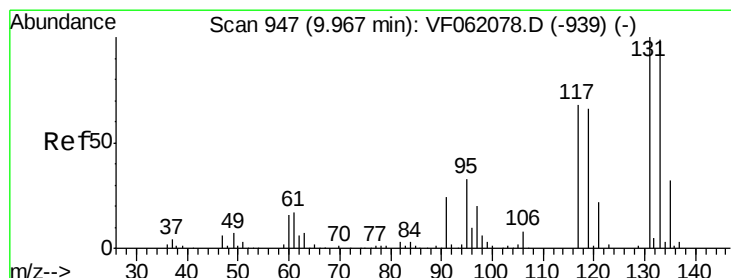
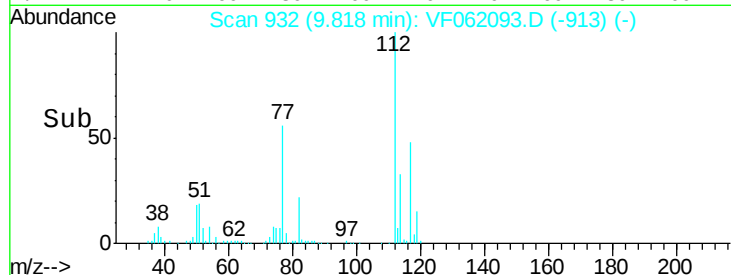
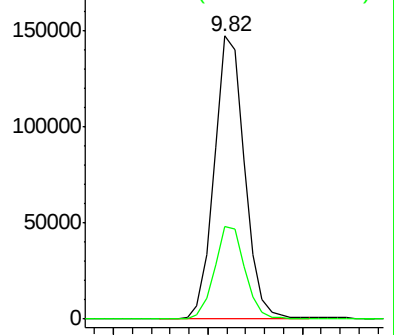
MMDadoda

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Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 52.678 ug/l

RT: 9.96 min Scan# 946

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

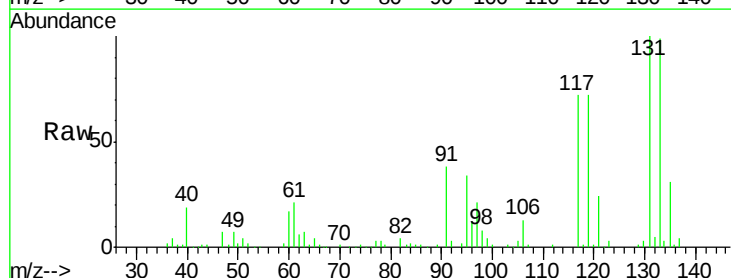
Tgt Ion:131 Resp: 133139

Ion Ratio Lower Upper

131 100

133 98.8 49.3 147.8

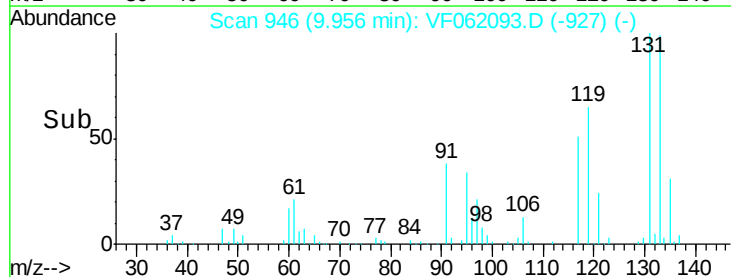
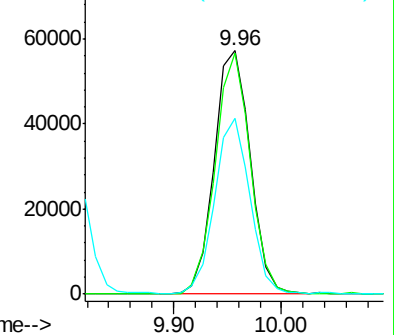
119 71.9 33.5 100.4

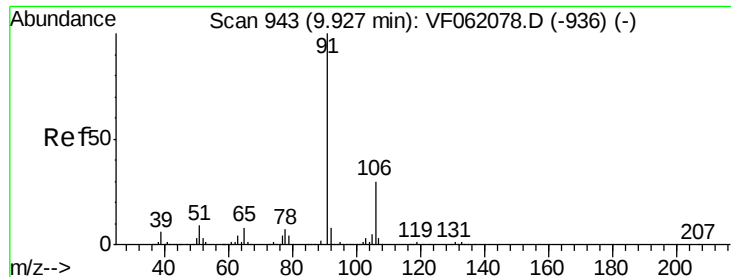


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#67

Ethyl Benzene

Concen: 52.933 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 579214

Ion Ratio Lower Upper

91 100

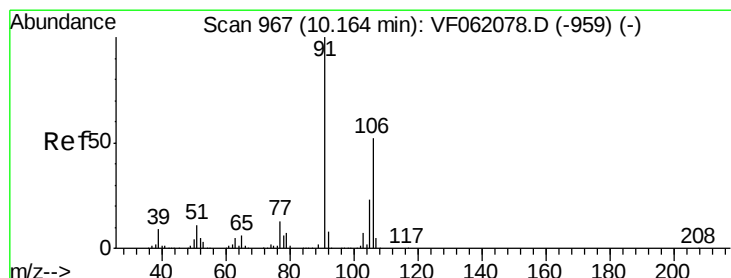
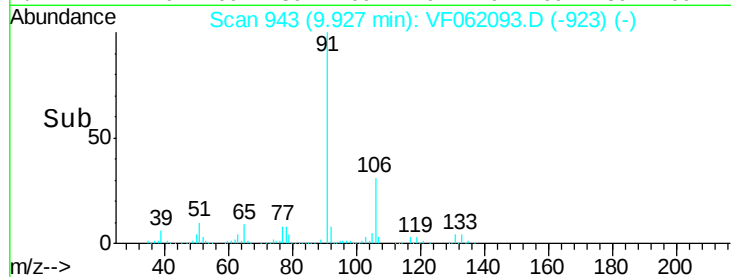
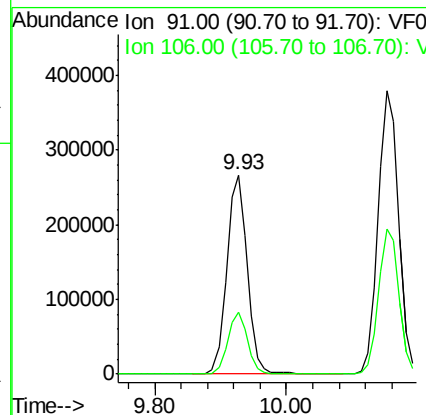
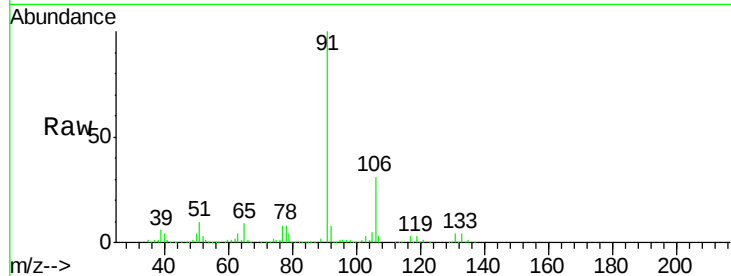
106 30.9 24.0 36.0

Manual Integrations

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#68

m/p-Xylenes

Concen: 104.436 ug/l

RT: 10.15 min Scan# 966

Delta R.T. -0.01 min

Lab File: VF062093.D

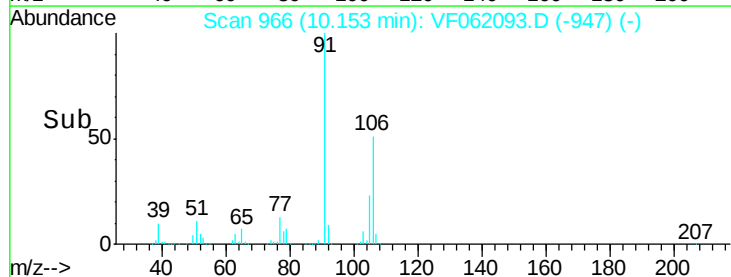
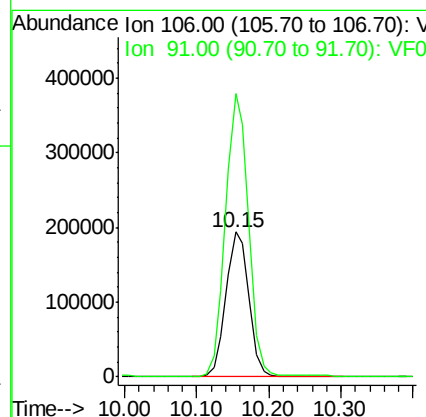
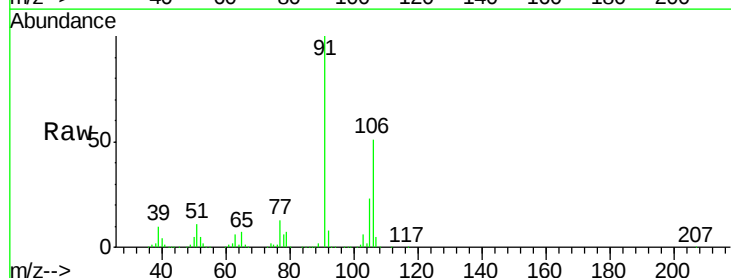
Acq: 22 Mar 2019 22:10

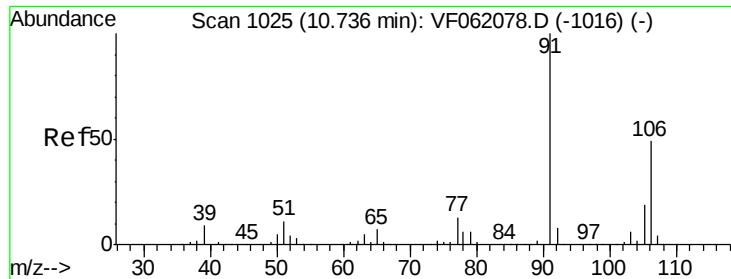
Tgt Ion: 106 Resp: 427128

Ion Ratio Lower Upper

106 100

91 195.6 154.4 231.6





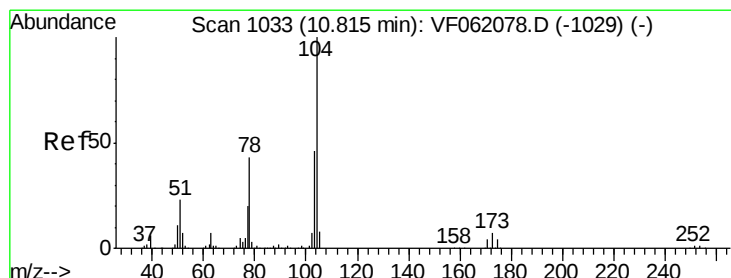
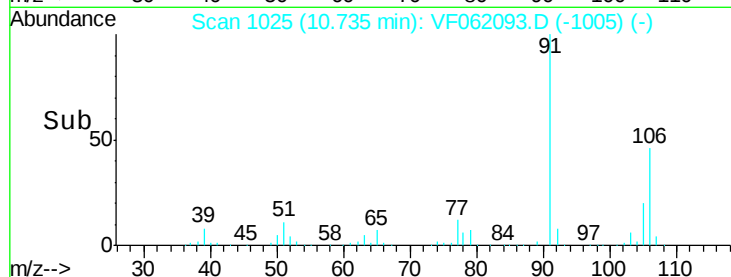
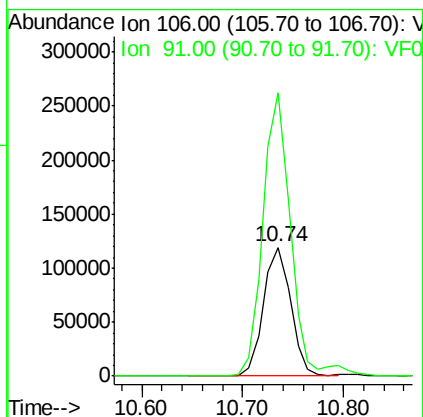
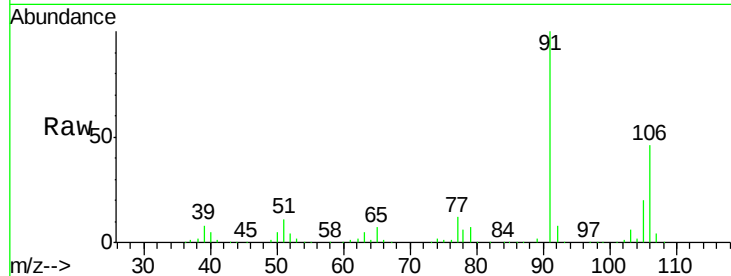
#69
o-Xylene
Concen: 52.593 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:106 Resp: 225284
Ion Ratio Lower Upper
106 100
91 219.4 102.6 307.8

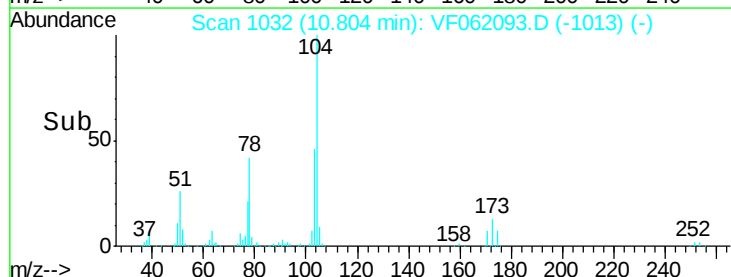
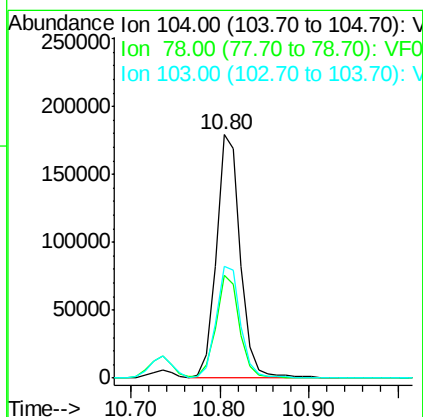
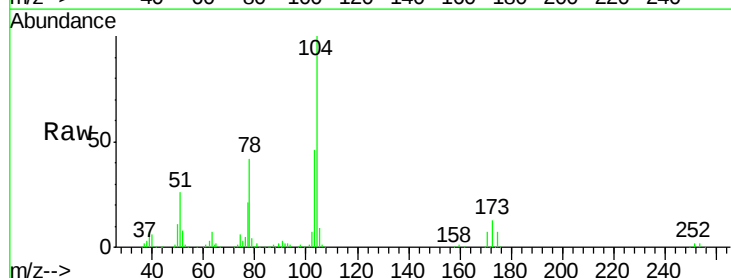
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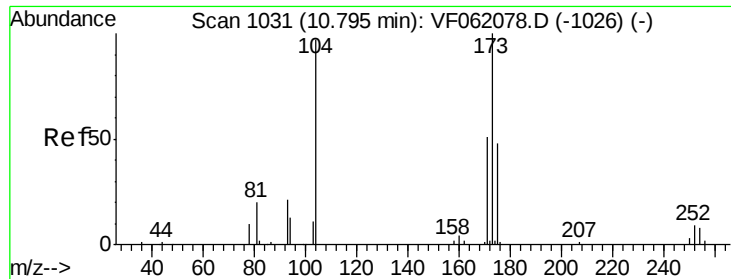
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#70
Styrene
Concen: 51.974 ug/l
RT: 10.80 min Scan# 1032
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion:104 Resp: 337315
Ion Ratio Lower Upper
104 100
78 42.0 34.3 51.5
103 46.2 36.9 55.3





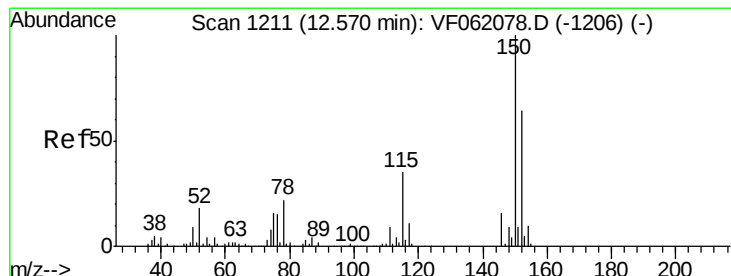
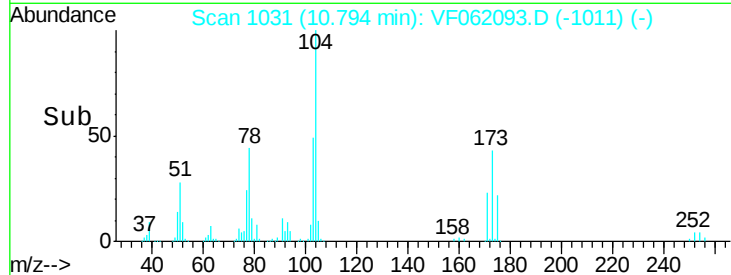
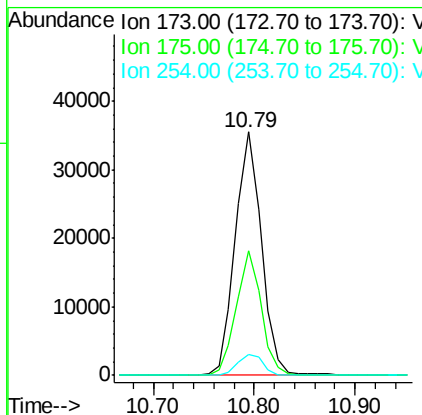
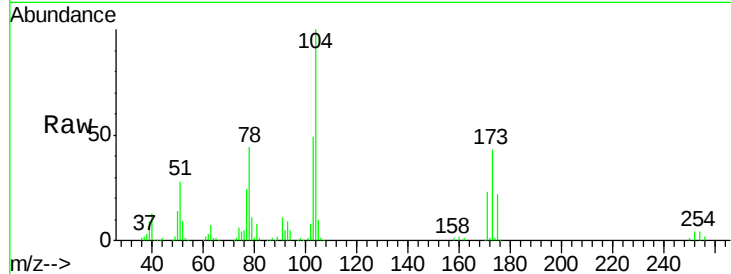
#71
Bromoform
Concen: 49.902 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ion	Ratio	Resp	Lower	Upper
173	100		64511		
175	51.2	24.1	72.4		
254	8.5	6.2	9.4		

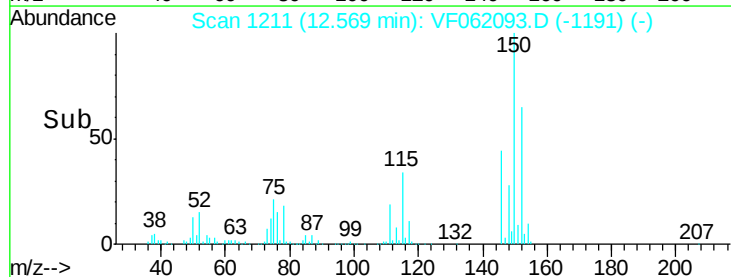
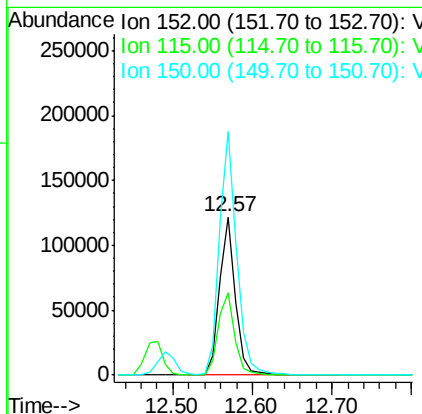
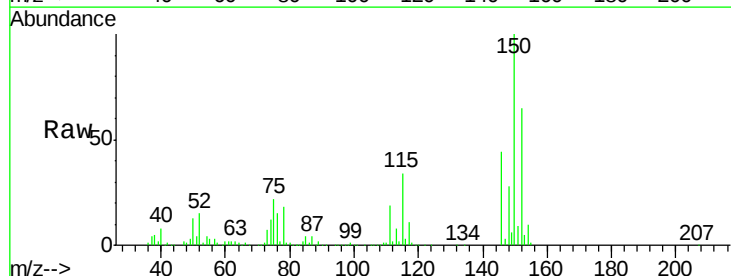
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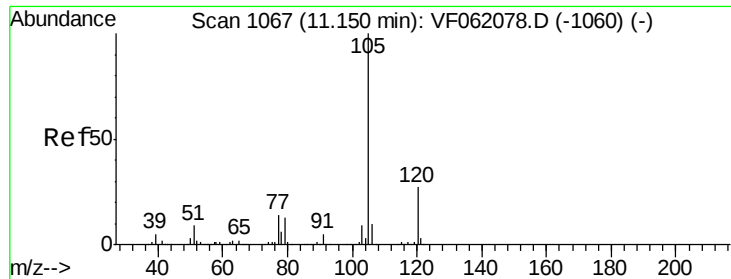
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
152	100		173209		
115	52.5	27.7	83.1		
150	154.0	0.0	313.2		





#73

Isopropylbenzene

Concen: 53.848 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion:105 Resp: 656309

Ion Ratio Lower Upper

105 100

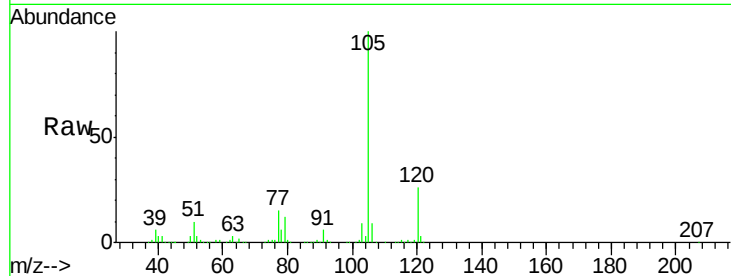
120 25.8 13.8 41.3

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.14

400000

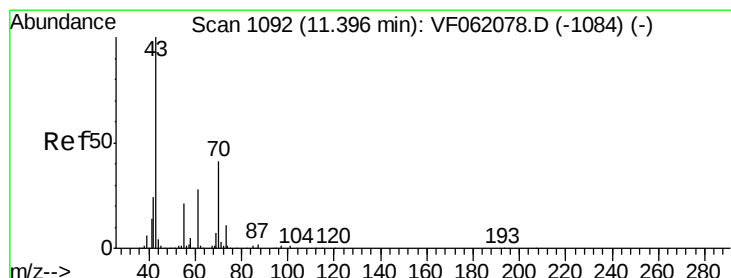
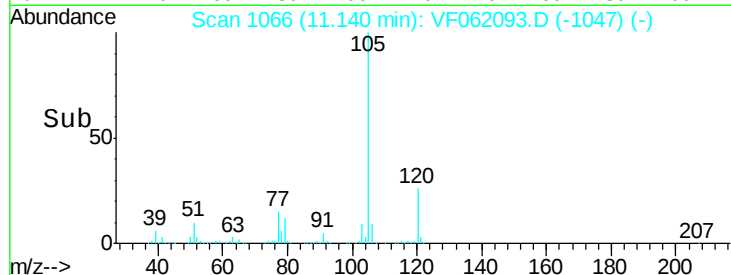
300000

200000

100000

0

Time--> 11.00 11.20



#74

N-ethyl acetate

Concen: 53.824 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion: 43 Resp: 156312

Ion Ratio Lower Upper

43 100

70 38.6 32.9 49.3

55 20.8 17.1 25.7

61 27.7 22.2 33.2

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

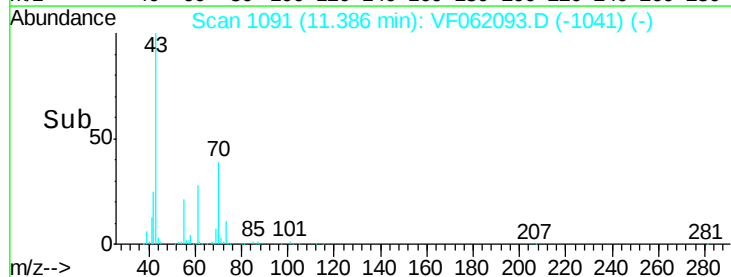
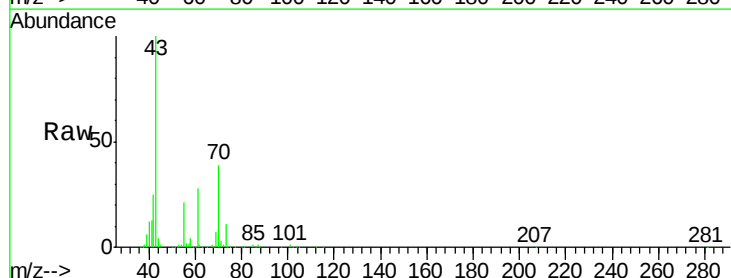
150000

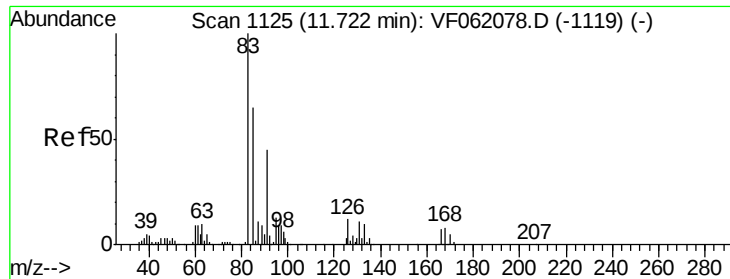
100000

50000

0

Time--> 11.30 11.40 11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 49.491 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 83 Resp: 103572
Ion Ratio Lower Upper

83 100

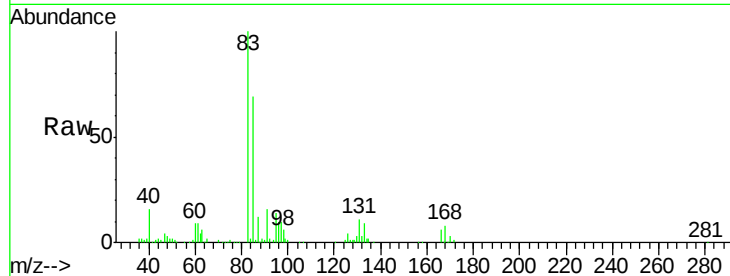
131 10.5 5.3 15.8

85 68.5 32.6 98.0

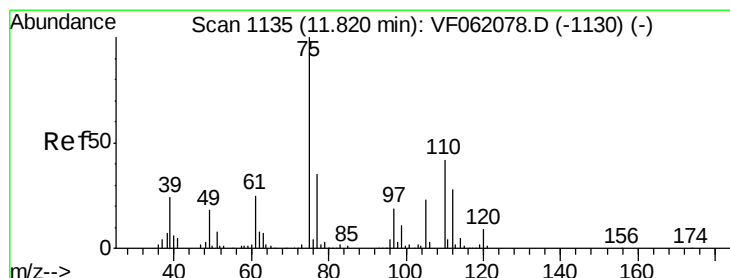
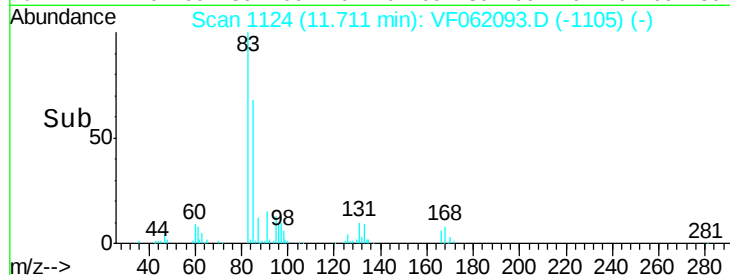
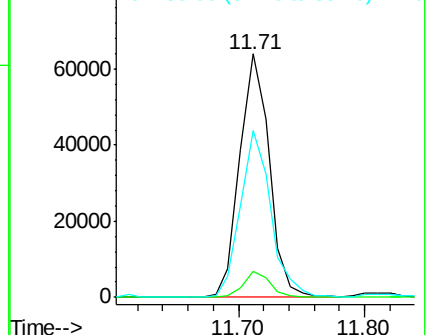
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Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 49.156 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

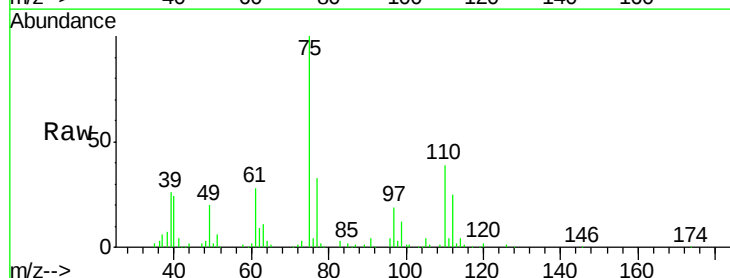
Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

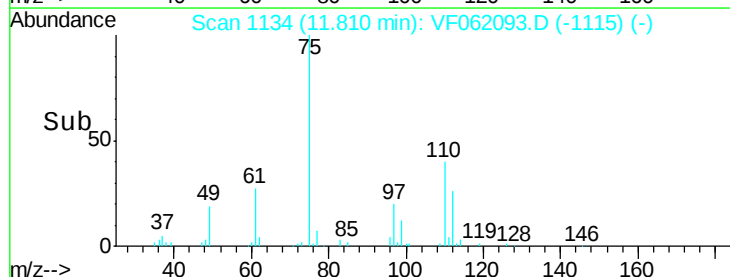
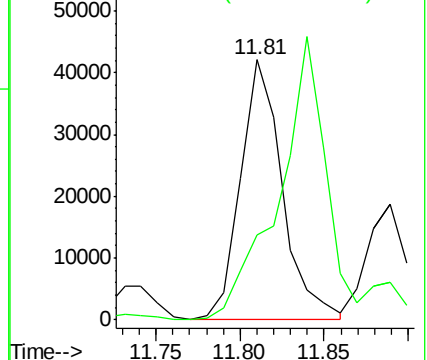
Tgt Ion: 75 Resp: 72396
Ion Ratio Lower Upper

75 100

77 32.6 17.8 53.3



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 77.00 (76.70 to 77.70): VF0





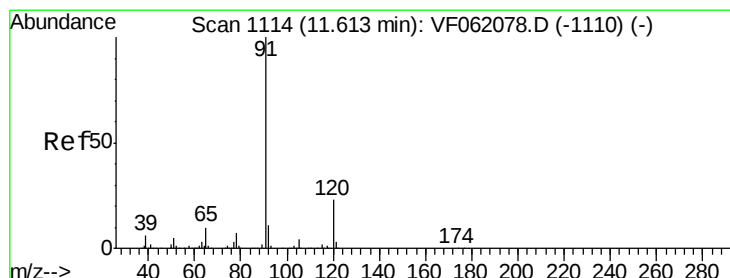
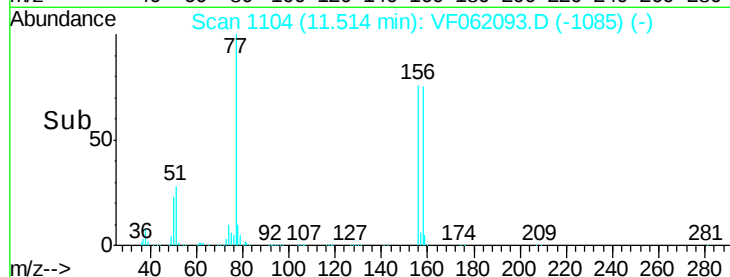
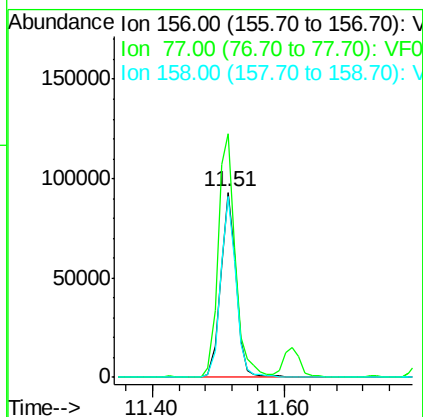
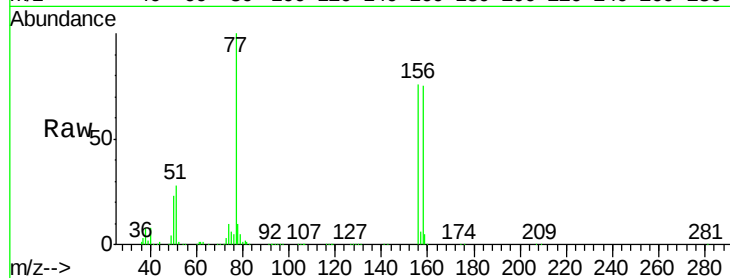
#77
Bromobenzene
Concen: 51.034 ug/l
RT: 11.51 min Scan# 1104
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
156	100		
77	131.6	61.3	183.9
158	98.1	48.6	145.9

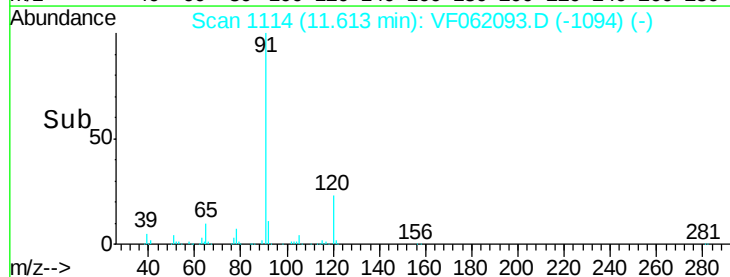
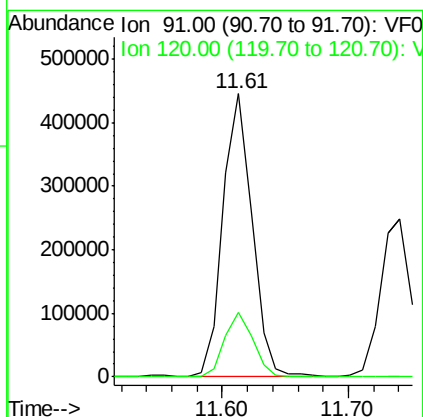
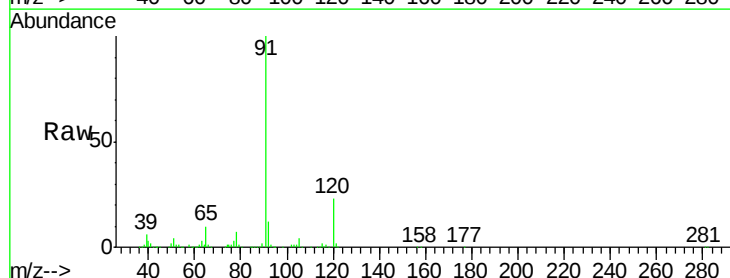
Manual Integrations
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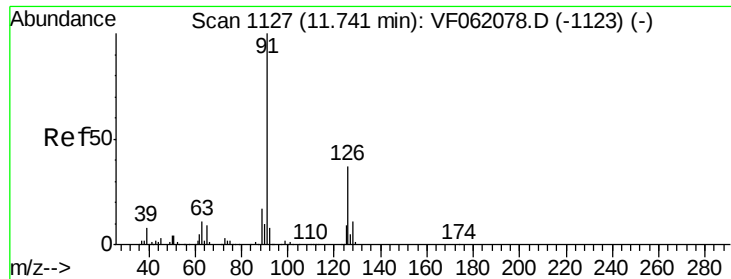
MMDadoda
3/27/2019 11:57:22 AM



#78
n-propylbenzene
Concen: 50.439 ug/l
RT: 11.61 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.3	33.8





#79

2-Chlorotoluene

Concen: 52.478 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 412811

Ion Ratio Lower Upper

91 100

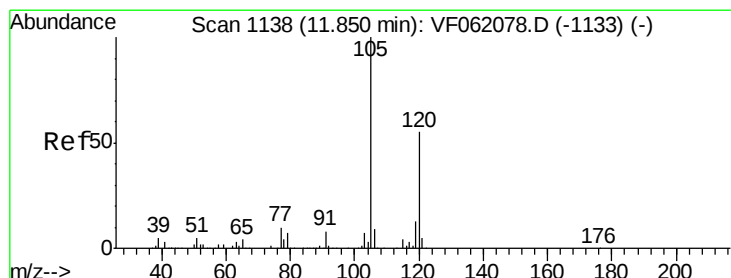
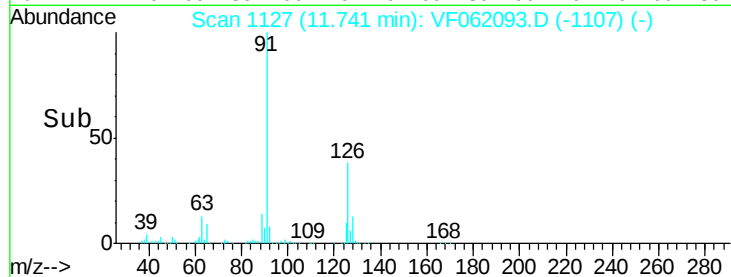
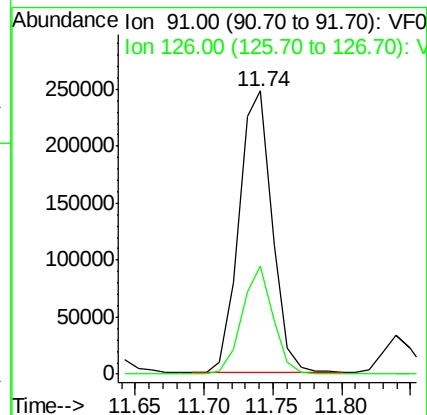
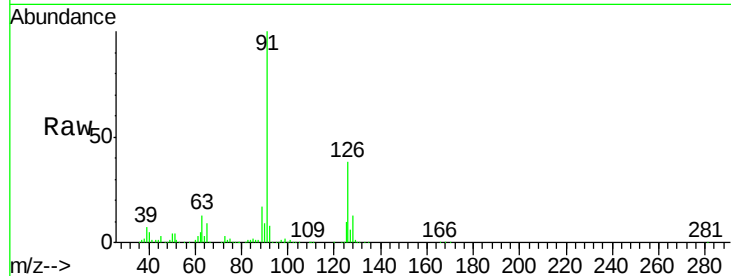
126 38.0 18.3 54.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 51.542 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VF062093.D

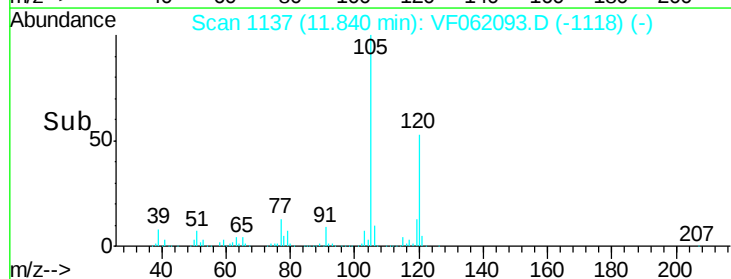
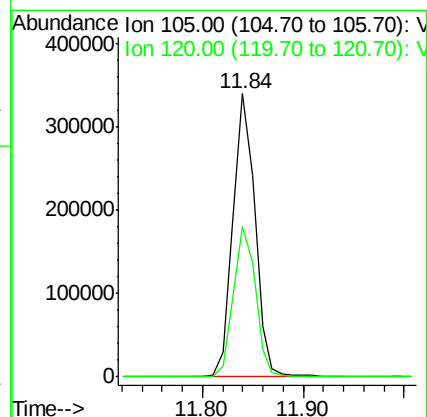
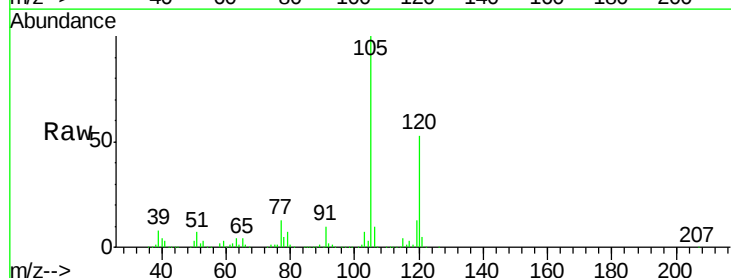
Acq: 22 Mar 2019 22:10

Tgt Ion: 105 Resp: 516721

Ion Ratio Lower Upper

105 100

120 53.0 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 53.851 ug/l m

RT: 11.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

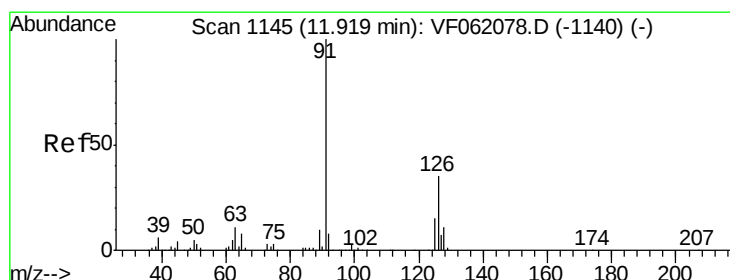
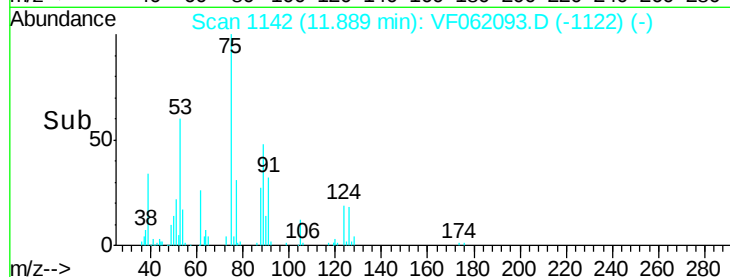
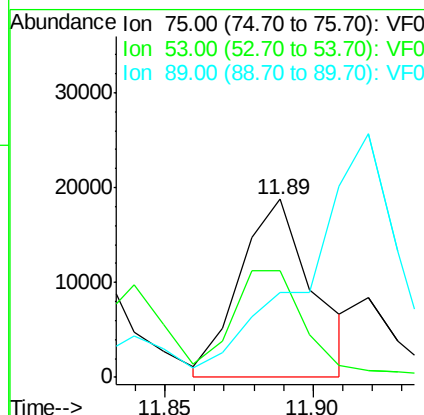
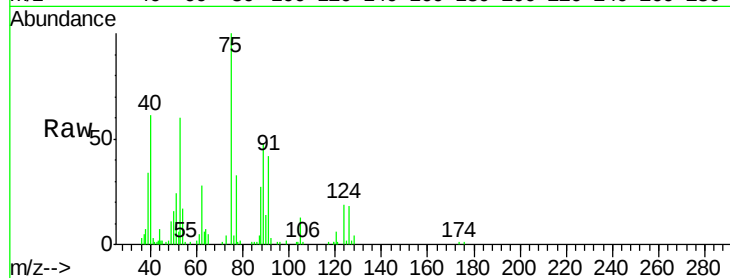
ClientSampleId :

VSTDCCC050

Tot Ion:	75	Resp:	32317
Ion	Ratio	Lower	Upper
75	100		
53	60.0	49.4	74.0
89	47.8	40.6	60.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 51.089 ug/l

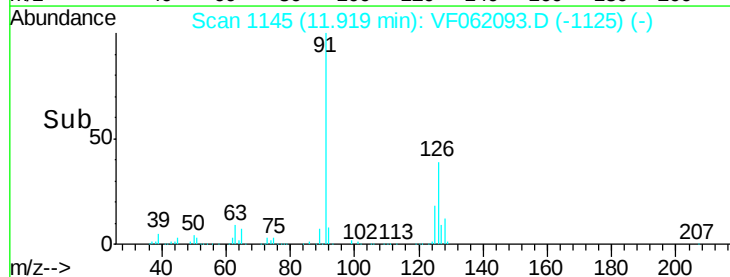
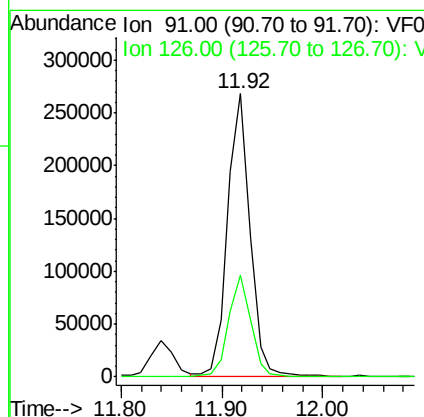
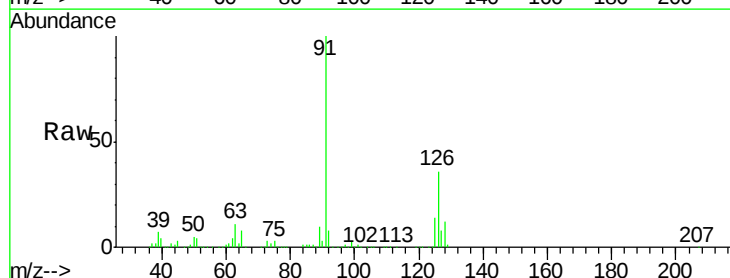
RT: 11.92 min Scan# 1145

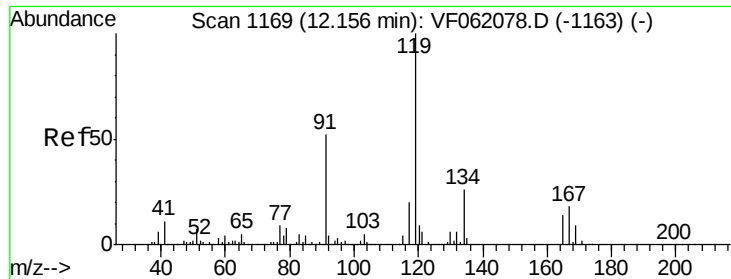
Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion:	91	Resp:	412062
Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.2	51.6





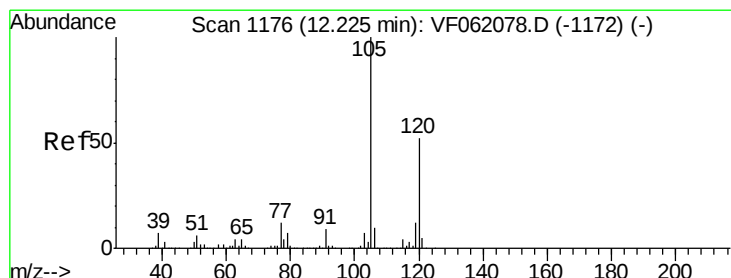
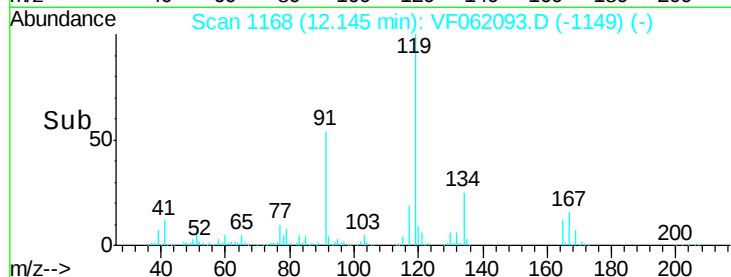
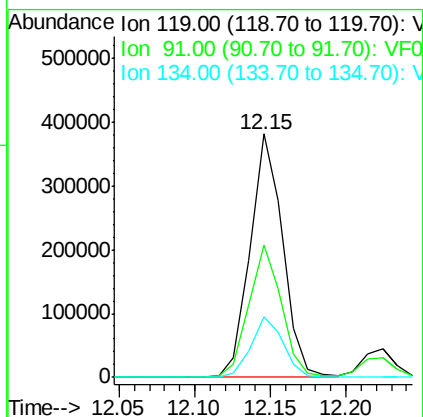
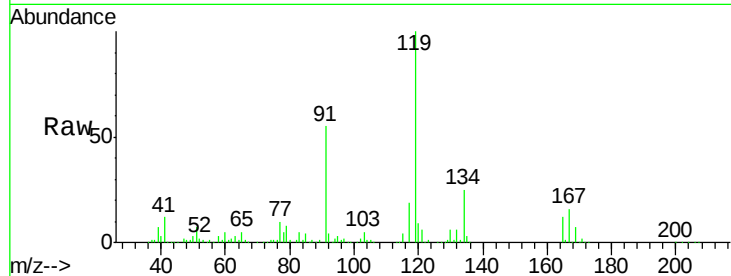
#83
tert-Butylbenzene
Concen: 54.752 ug/l
RT: 12.15 min Scan# 1168
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
119	100		
91	54.5	26.1	78.2
134	24.7	12.8	38.4

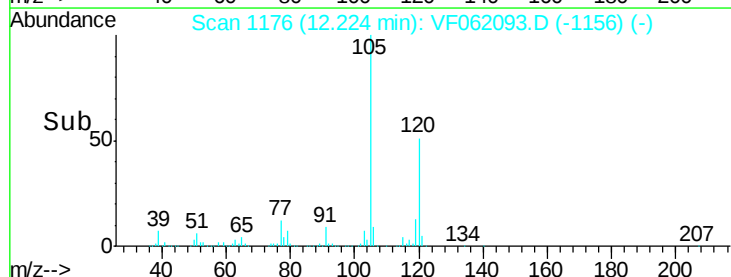
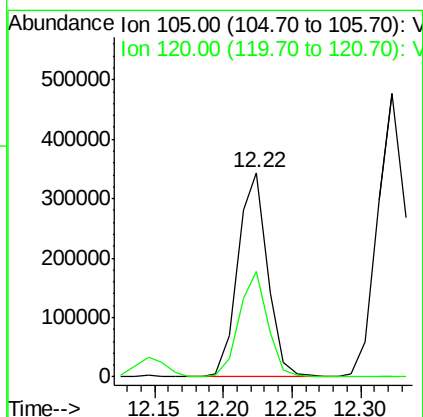
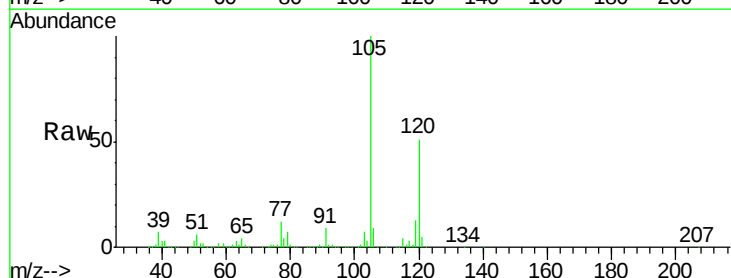
Manual Integrations
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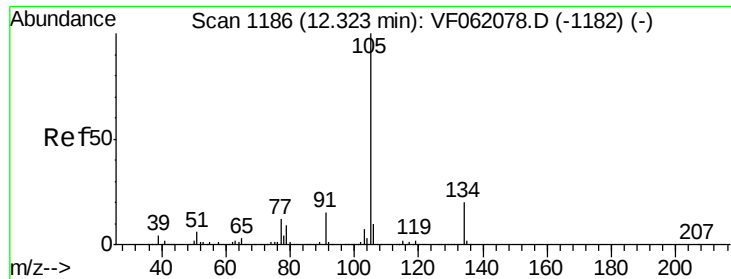
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#84
1,2,4-Trimethylbenzene
Concen: 52.599 ug/l
RT: 12.22 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.4	26.1	78.2





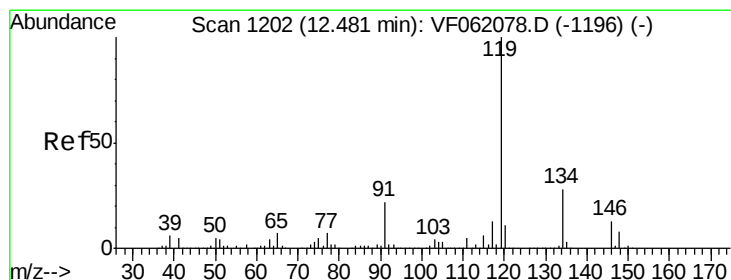
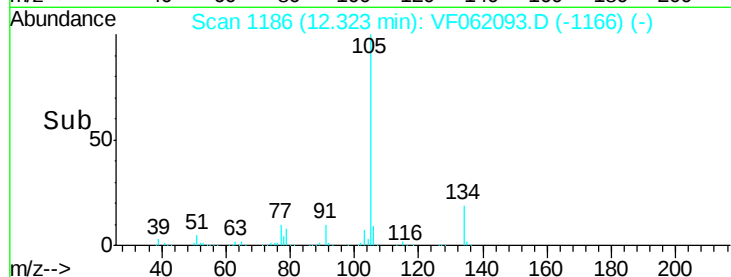
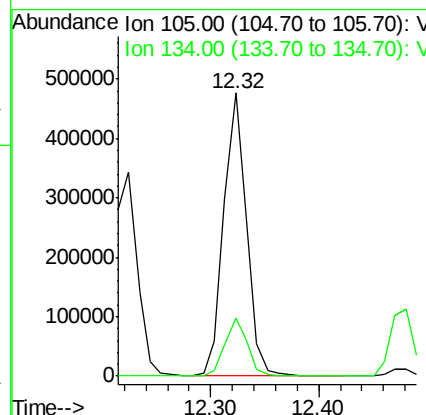
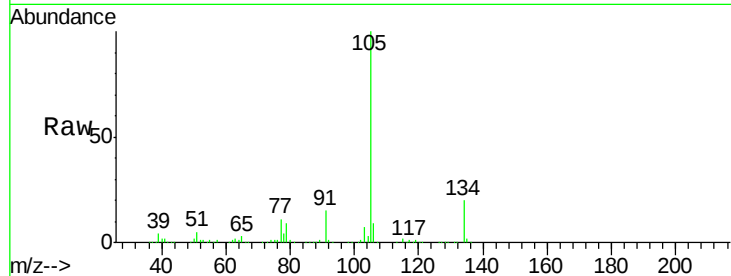
#85
 sec-Butylbenzene
 Concen: 51.194 ug/l
 RT: 12.32 min Scan# 1186
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleID :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.2	30.4

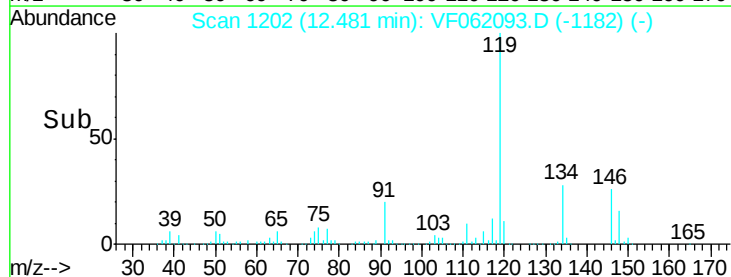
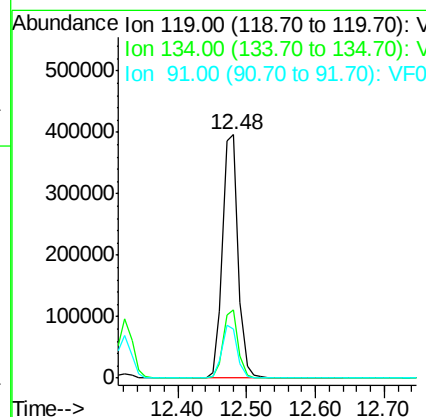
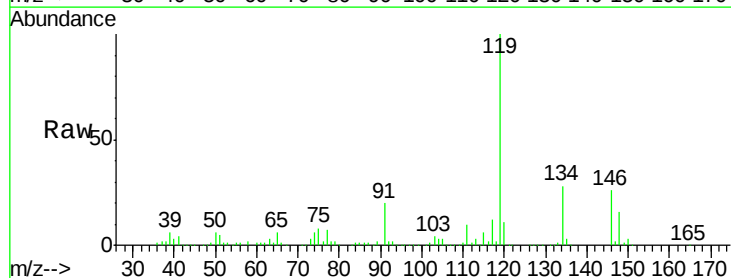
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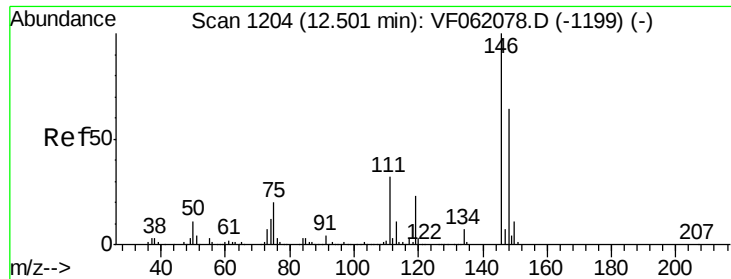
MMDadoda
 3/27/2019 11:57:22 AM



#86
 p-Isopropyltoluene
 Concen: 53.312 ug/l
 RT: 12.48 min Scan# 1202
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.3	14.0	42.0
91	20.3	10.8	32.4





#87

1,3-Dichlorobenzene

Concen: 50.908 ug/l

RT: 12.49 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

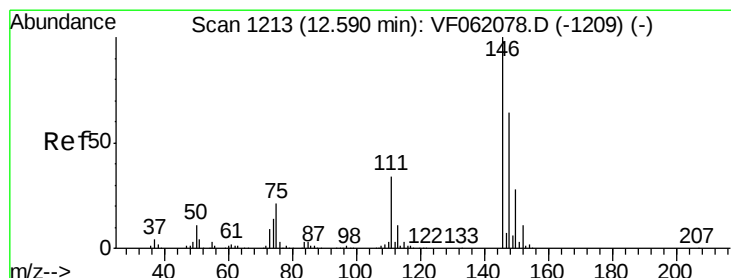
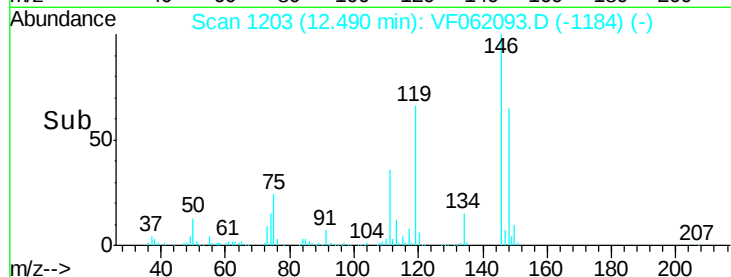
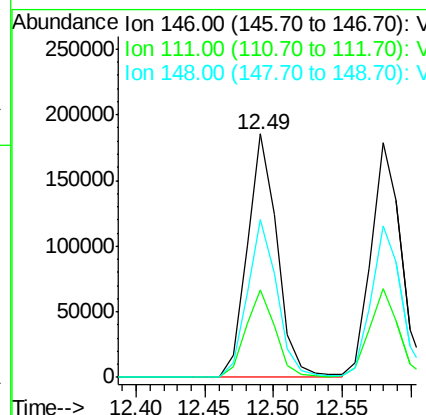
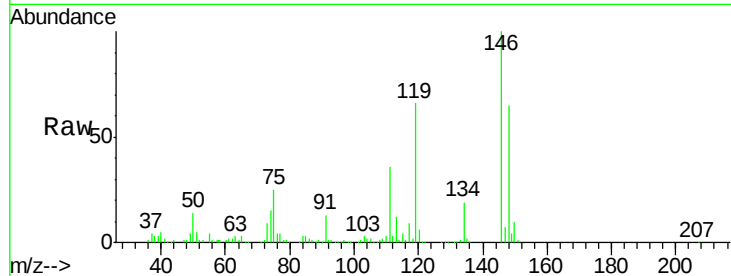
ClientSampleId :

VSTDCCC050

Tot Ion:	146	Resp:	281635
Ion Ratio	Lower	Upper	
146	100		
111	35.9	16.1	48.3
148	64.9	31.9	95.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 50.629 ug/l

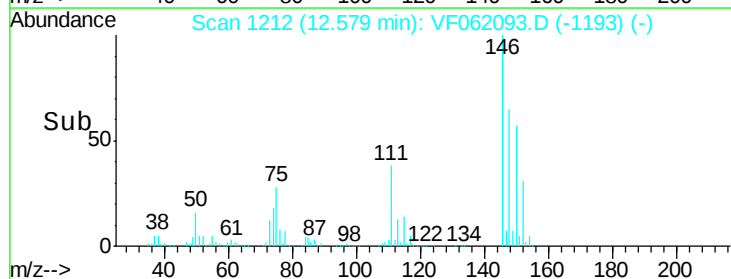
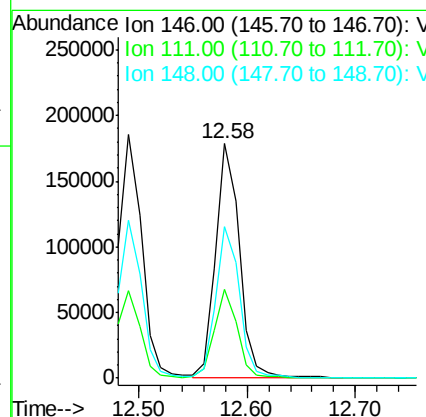
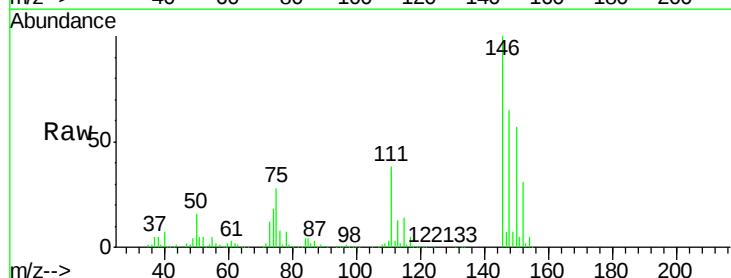
RT: 12.58 min Scan# 1212

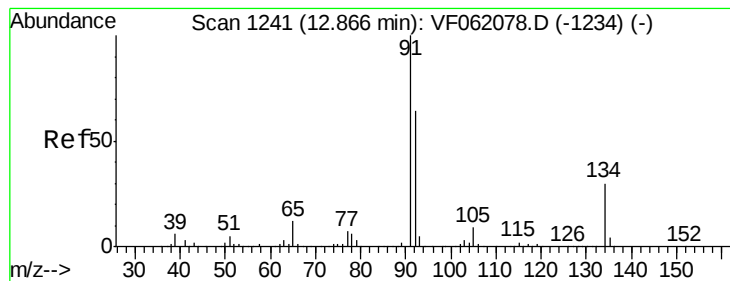
Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion:	146	Resp:	273316
Ion Ratio	Lower	Upper	
146	100		
111	37.8	16.9	50.6
148	64.7	31.9	95.7





#89

n-Butylbenzene

Concen: 51.538 ug/l

RT: 12.86 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 91 Resp: 578355

Ion Ratio Lower Upper

91 100

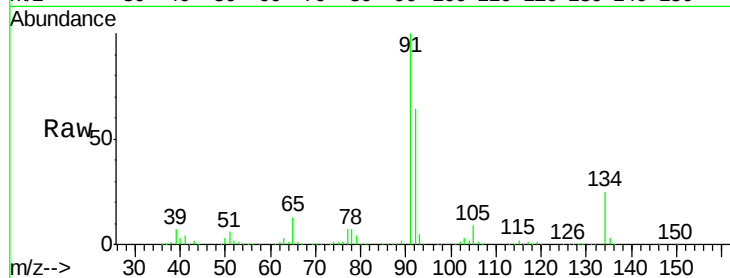
92 63.9 31.9 95.5

134 25.1 14.9 44.9

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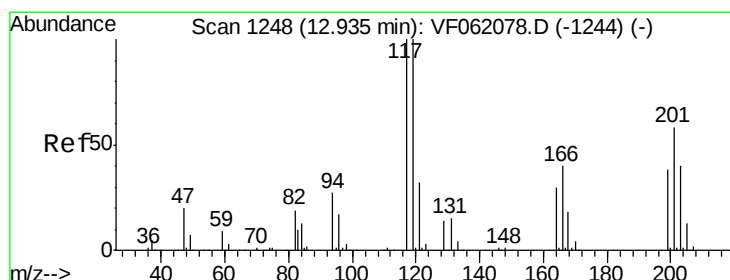
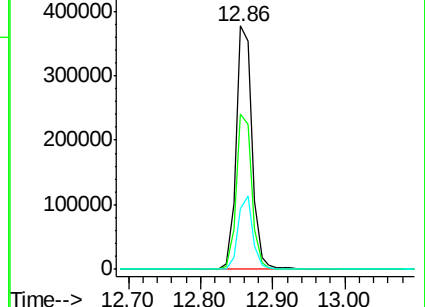
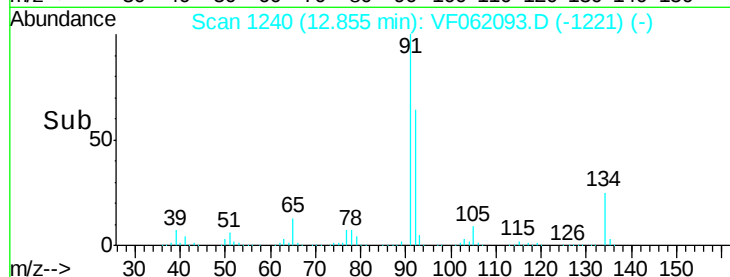
3/27/2019 11:57:22 AM



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 52.825 ug/l

RT: 12.93 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VF062093.D

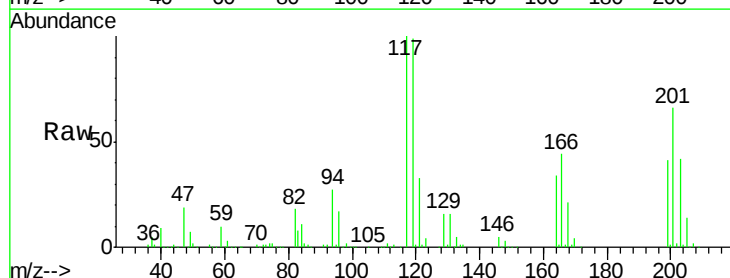
Acq: 22 Mar 2019 22:10

Tgt Ion: 117 Resp: 147949

Ion Ratio Lower Upper

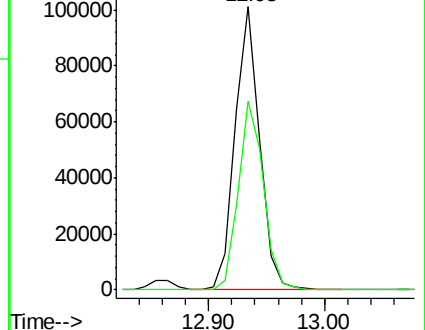
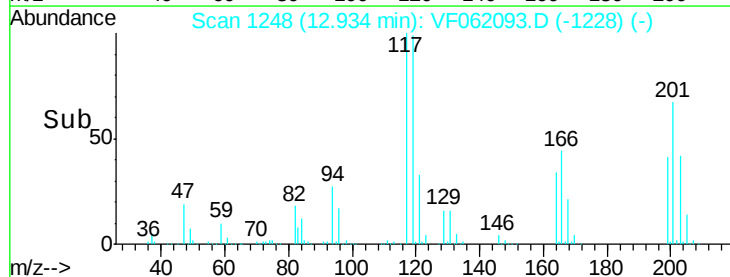
117 100

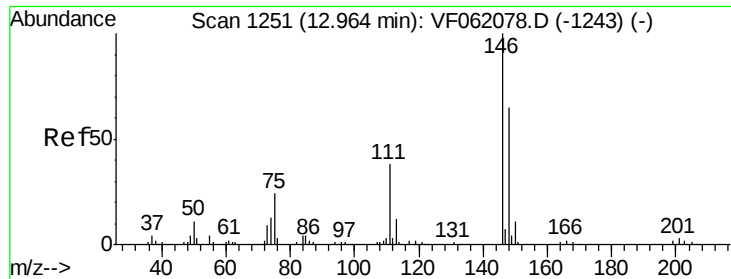
201 66.4 28.7 86.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





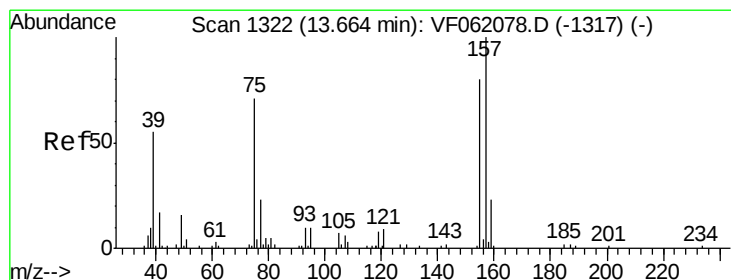
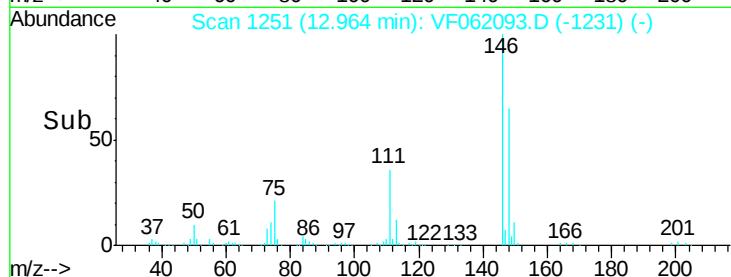
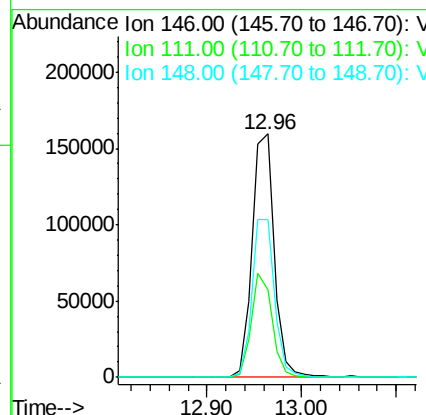
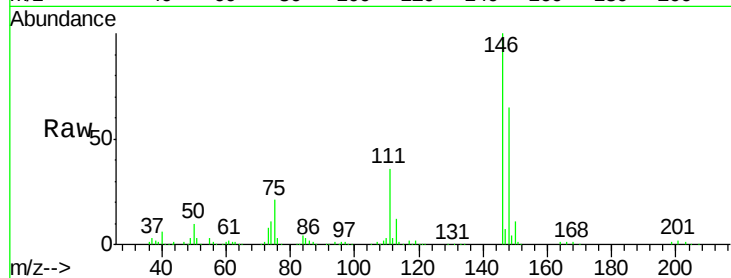
#91
 1,2-Dichlorobenzene
 Concen: 49.640 ug/l
 RT: 12.96 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	35.9	19.1	57.3
148	64.8	32.8	98.3

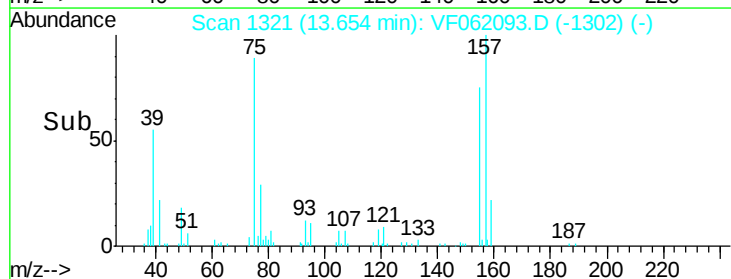
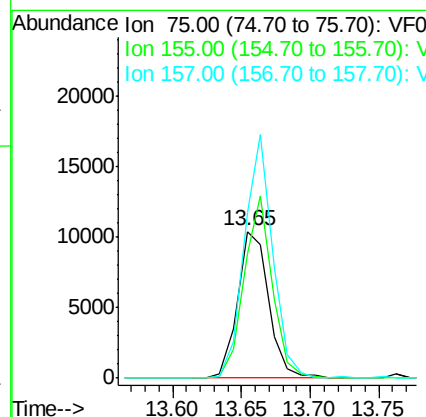
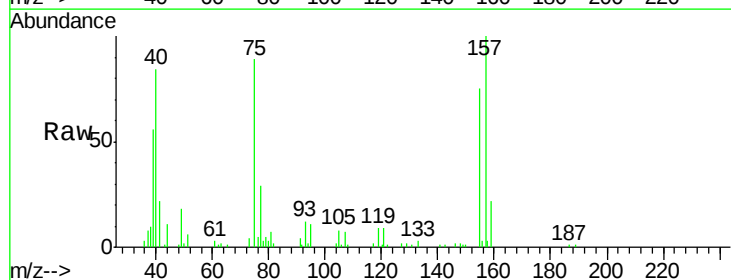
Manual Integrations
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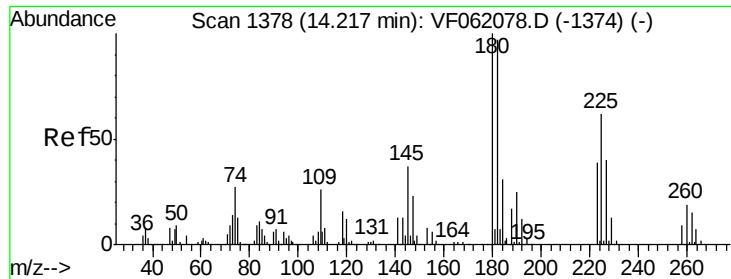
MMDadoda
 3/27/2019 11:57:22 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.636 ug/l
 RT: 13.65 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.7	56.1	168.4
157	112.7	70.4	211.2





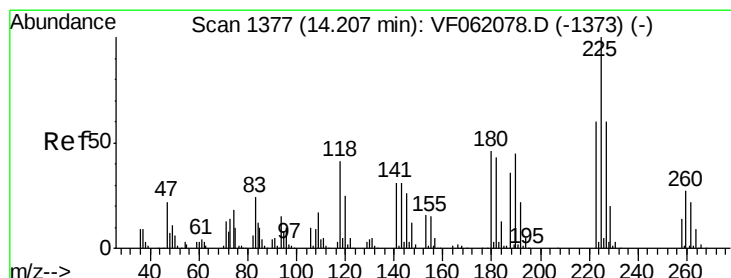
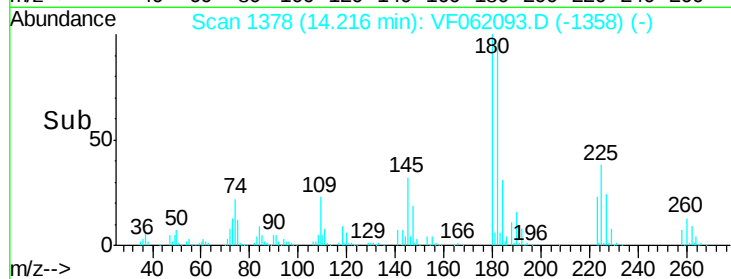
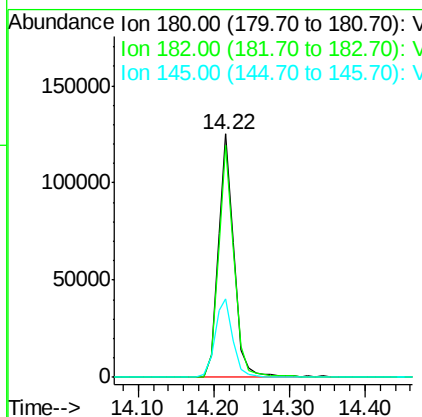
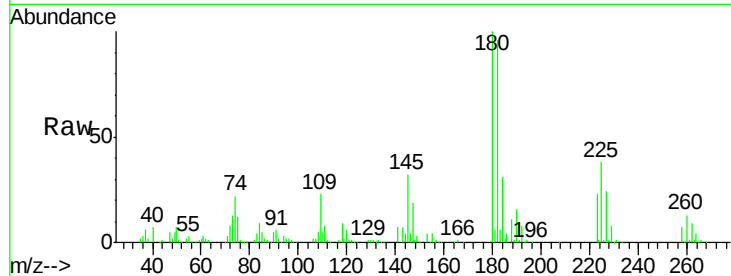
#93
 1,2,4-Trichlorobenzene
 Concen: 50.373 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Resp	Lower	Upper
180	100	182373		
182	95.5	48.7	146.1	
145	32.1	18.3	54.8	

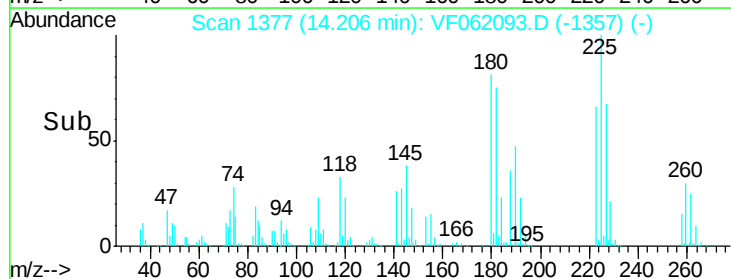
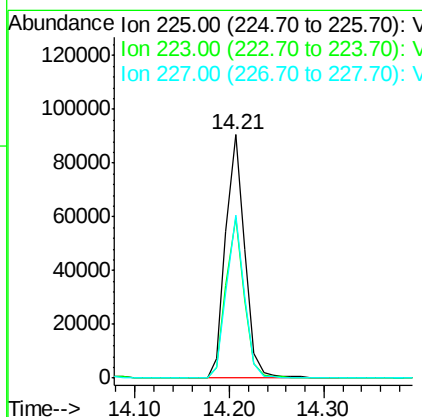
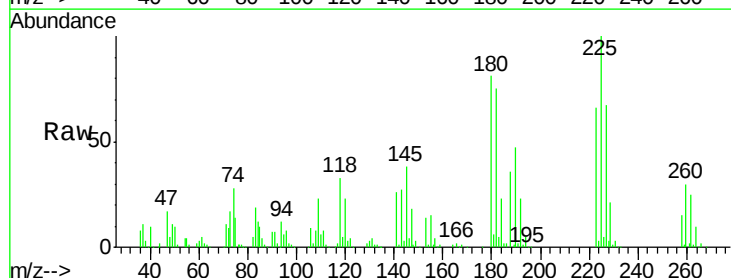
Manual Integrations
 APPROVED

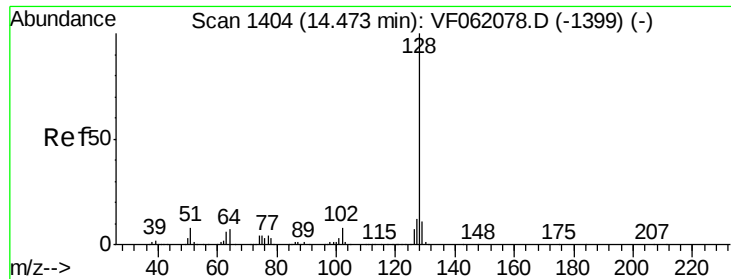
MMDadoda
 3/27/2019 11:57:22 AM



#94
 Hexachlorobutadiene
 Concen: 52.946 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	127456		
223	66.1	30.0	90.0	
227	66.9	30.2	90.6	





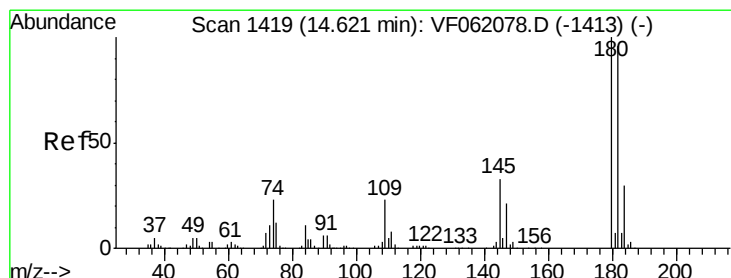
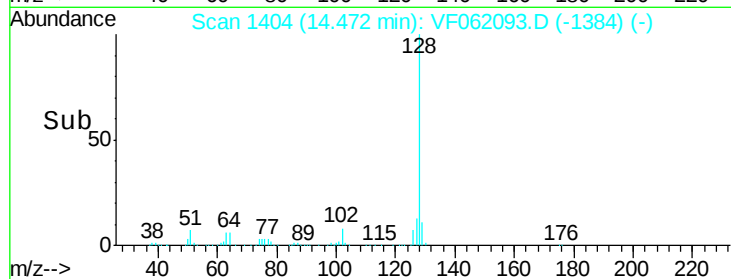
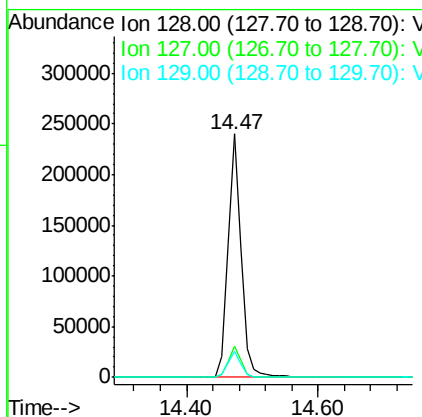
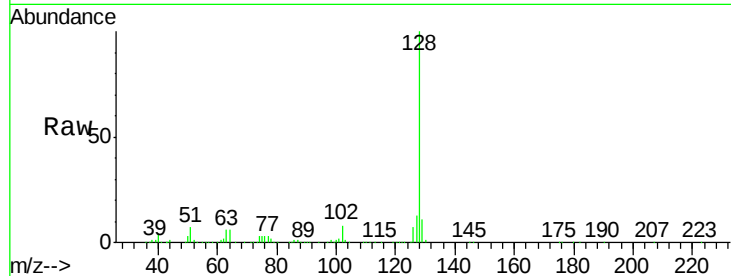
#95
Naphthalene
Concen: 53.482 ug/l
RT: 14.47 min Scan# 1404
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	9.5	14.3
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/27/2019 11:57:22 AM



#96
1,2,3-Trichlorobenzene
Concen: 51.713 ug/l
RT: 14.62 min Scan# 1419
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.9	143.7
145	31.6	16.6	49.7

