

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062095.D
 Acq On : 22 Mar 2019 23:36
 Operator : VA/AP
 Sample : VF0322SBS02
 Misc : 5.00µg/5mL/MSVOA-F/SOIL
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS02

Manual Integrations
 APPROVED

MMDadoda
 3/29/2019 10:25:22 AM

Quant Time: Mar 23 06:46:14 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	4.89	168	258304	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	420585	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.80	117	353462	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	179734	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.87	65	105947	55.14	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	110.28%	
35) Dibromofluoromethane	4.14	113	149821	52.66	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	105.32%	
50) Toluene-d8	7.58	98	432699	50.95	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	11.43	95	172955	52.75	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	105.50%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	75052	22.681	ug/l	100
3) Chloromethane	1.10	50	76050	21.964	ug/l	97
4) Vinyl Chloride	1.15	62	72979	22.787	ug/l	98
5) Bromomethane	1.33	94	49981	21.710	ug/l	96
6) Chloroethane	1.41	64	35691	22.137	ug/l	96
7) Trichlorofluoromethane	1.50	101	86575m	22.382	ug/l	
8) Diethyl Ether	1.64	74	16427	18.592	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	1.86	101	54522	20.661	ug/l	98
10) Methyl Iodide	1.94	142	111163m	22.168	ug/l	
11) Tert butyl alcohol	2.60	59	10914	103.242	ug/l	95
12) 1,1-Dichloroethene	1.81	96	54063	21.713	ug/l	92
13) Acrolein	2.01	56	13767	108.299	ug/l	94
14) Allyl chloride	2.11	41	55715	20.959	ug/l	97
15) Acrylonitrile	2.96	53	38211	102.791	ug/l	92
16) Acetone	2.26	43	32035	79.223	ug/l	97
17) Carbon Disulfide	1.84	76	162643m	21.421	ug/l	
18) Methyl Acetate	2.36	43	20052	20.788	ug/l	94
19) Methyl tert-butyl Ether	2.44	73	83705	21.271	ug/l	95
20) Methylene Chloride	2.27	84	55569m	20.993	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	45354	18.932	ug/l	94
22) Diisopropyl ether	2.82	45	157842	22.647	ug/l	96
23) Vinyl Acetate	3.21	43	317670	111.324	ug/l	97
24) 1,1-Dichloroethane	2.89	63	94711	22.661	ug/l	100
25) 2-Butanone	4.37	43	84219	99.766	ug/l	100
26) 2,2-Dichloropropane	3.62	77	34178	20.169	ug/l	90
27) cis-1,2-Dichloroethene	3.50	96	72544	22.852	ug/l	98
28) Bromochloromethane	3.74	49	40066	23.462	ug/l	97
29) Tetrahydrofuran	4.10	42	38219	104.130	ug/l	98
30) Chloroform	3.88	83	101919	23.074	ug/l	99
31) Cyclohexane	3.71	56	98243m	22.506	ug/l	
32) 1,1,1-Trichloroethane	4.12	97	54101	20.135	ug/l	97
36) 1,1-Dichloropropene	4.31	75	79277	19.789	ug/l	97
37) Ethyl Acetate	4.14	43	33199	18.963	ug/l #	96
38) Carbon Tetrachloride	4.02	117	55555	20.347	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	93385	20.085	ug/l	97
40) Benzene	4.66	78	223077	20.772	ug/l	100
41) Methacrylonitrile	4.78	41	18983	20.492	ug/l #	85
42) 1,2-Dichloroethane	4.97	62	53268	20.975	ug/l	97
43) Isopropyl Acetate	6.98	43	41989	19.804	ug/l #	96
44) Trichloroethene	5.53	130	69439	21.148	ug/l	97
45) 1,2-Dichloropropane	6.26	63	52996	20.690	ug/l	96
46) Dibromomethane	6.11	93	31099	19.857	ug/l	96
47) Bromodichloromethane	6.41	83	69340	19.988	ug/l	97
48) Methyl methacrylate	6.74	41	24271	20.105	ug/l	96
49) 1,4-Dioxane	6.74	88	3654	344.946	ug/l #	79
51) 4-Methyl-2-Pentanone	8.28	43	145344	102.418	ug/l	98
52) Toluene	7.65	92	129990	20.897	ug/l	99
53) t-1,3-Dichloropropene	8.30	75	56226	20.646	ug/l	94
54) cis-1,3-Dichloropropene	7.32	75	76321	19.587	ug/l	92
55) 1,1,2-Trichloroethane	8.51	97	35012	19.816	ug/l	97
56) Ethyl methacrylate	8.64	69	42051	19.956	ug/l	95
57) 1,3-Dichloropropane	8.87	76	60599	20.665	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.31	63	30281	94.702	ug/l	97
59) 2-Hexanone	9.51	43	98758	94.952	ug/l	97
60) Dibromochloromethane	8.73	129	50782	20.675	ug/l	99
61) 1,2-Dibromoethane	9.01	107	38013	20.166	ug/l	98
64) Tetrachloroethene	8.17	164	59930	21.946	ug/l	97
65) Chlorobenzene	9.82	112	141024	21.324	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.96	131	55696	20.966	ug/l	96
67) Ethyl Benzene	9.92	91	246703	21.450	ug/l	97
68) m/p-Xylenes	10.15	106	188385	43.823	ug/l	98
69) o-Xylene	10.74	106	93621	20.794	ug/l	98
70) Styrene	10.80	104	142741	20.925	ug/l	97
71) Bromoform	10.79	173	26549	19.539	ug/l #	93
73) Isopropylbenzene	11.14	105	283213	22.393	ug/l	97
74) N-amyl acetate	11.39	43	66180	21.961	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.71	83	45758	21.071	ug/l	96
76) 1,2,3-Trichloropropane	11.81	75	33169	21.704	ug/l	100
77) Bromobenzene	11.51	156	65705	21.264	ug/l	95
78) n-propylbenzene	11.61	91	311875	21.237	ug/l	99
79) 2-Chlorotoluene	11.73	91	185319	22.703	ug/l	93
80) 1,3,5-Trimethylbenzene	11.84	105	239329	23.006	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.88	75	10814m	17.366	ug/l	
82) 4-Chlorotoluene	11.91	91	176457	21.084	ug/l	97
83) tert-Butylbenzene	12.15	119	242908	22.306	ug/l	96
84) 1,2,4-Trimethylbenzene	12.21	105	223210	21.887	ug/l	94
85) sec-Butylbenzene	12.32	105	311408	22.105	ug/l	100
86) p-Isopropyltoluene	12.47	119	270539	22.166	ug/l	97
87) 1,3-Dichlorobenzene	12.49	146	120437	20.980	ug/l	96
88) 1,4-Dichlorobenzene	12.58	146	118578	21.168	ug/l	98
89) n-Butylbenzene	12.86	91	258394	22.190	ug/l	96
90) Hexachloroethane	12.93	117	63229	21.756	ug/l	80
91) 1,2-Dichlorobenzene	12.95	146	116090	21.536	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	6550	19.907	ug/l	99

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QLast Update : Sat Mar 23 01:16:37 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	79498	21.161	ug/l	95
94) Hexachlorobutadiene	14.21	225	52683	21.090	ug/l	96
95) Naphthalene	14.47	128	136441	20.724	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	73776	20.979	ug/l	95

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

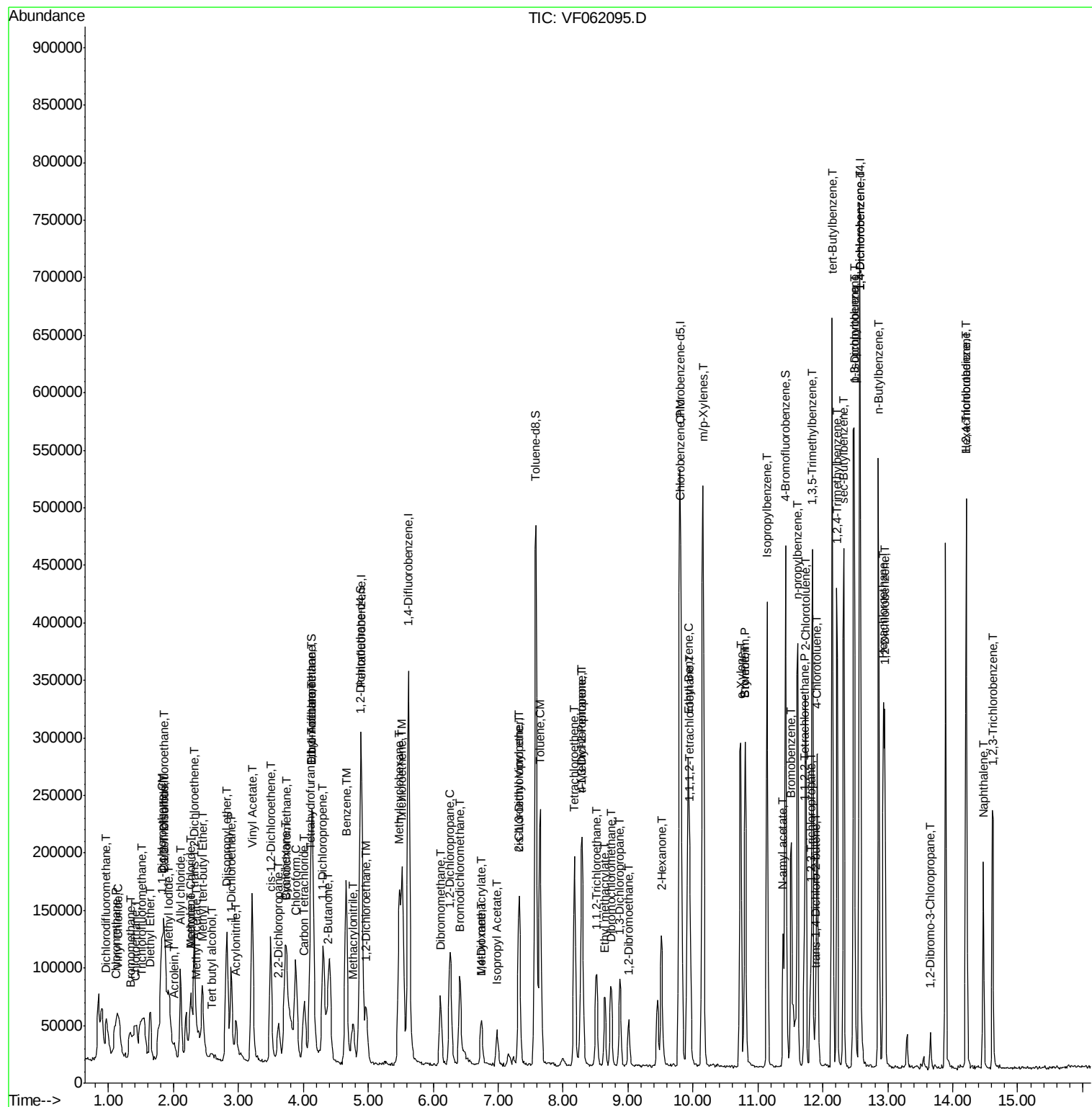
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032219\
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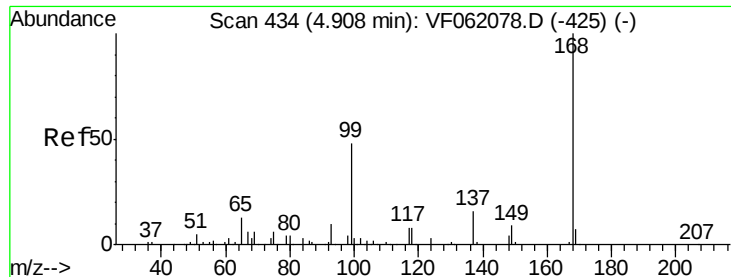
Instrument :
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion:168 Resp: 258304

Ion Ratio Lower Upper

168 100

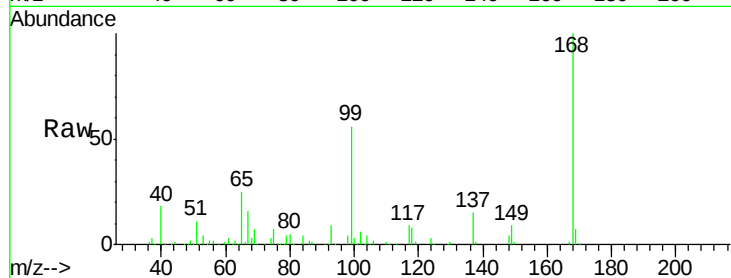
99 55.8 38.2 57.4

Manual Integrations

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Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

80000

60000

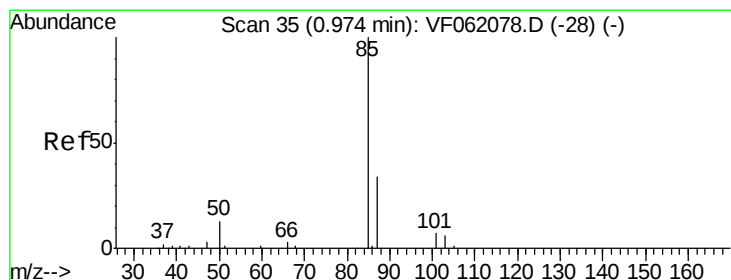
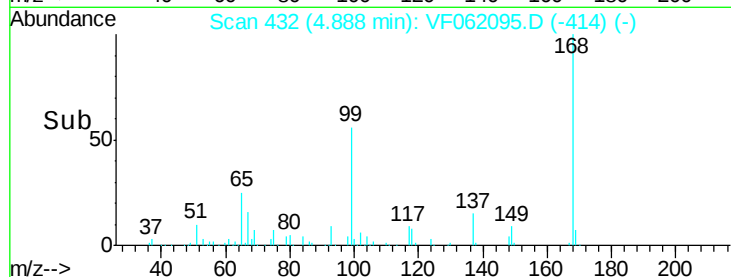
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 22.681 ug/l

RT: 0.96 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF062095.D

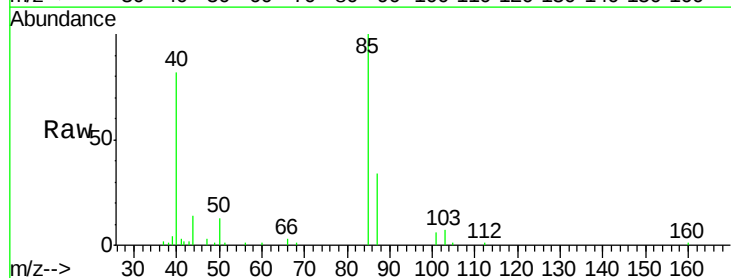
Acq: 22 Mar 2019 23:36

Tgt Ion: 85 Resp: 75052

Ion Ratio Lower Upper

85 100

87 33.8 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.96

20000

15000

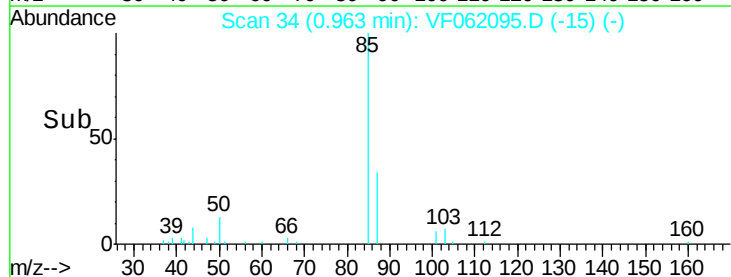
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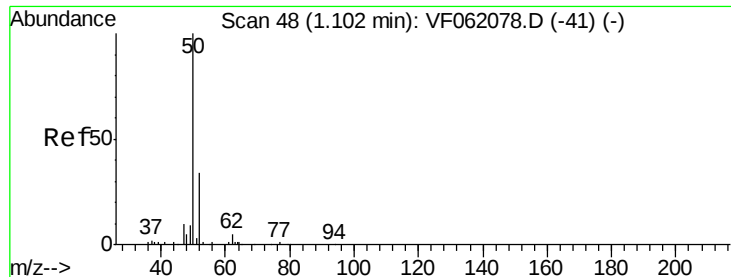
5000

0

Time-->

0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 21.964 ug/l

RT: 1.10 min Scan# 48

Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 50 Resp: 76050

Ion Ratio Lower Upper

50 100

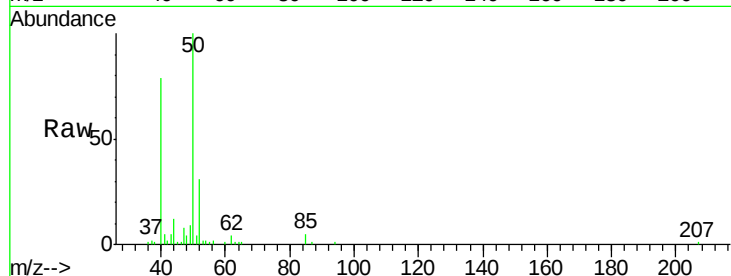
52 31.1 26.1 39.1

Manual Integrations

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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

20000

15000

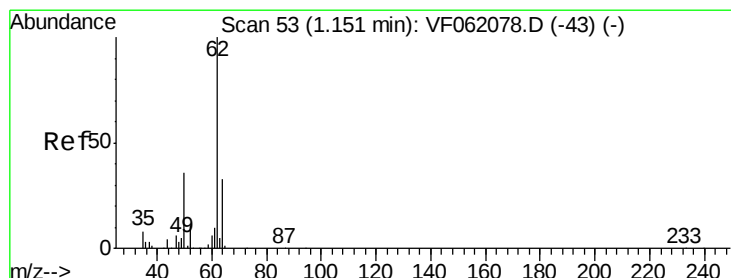
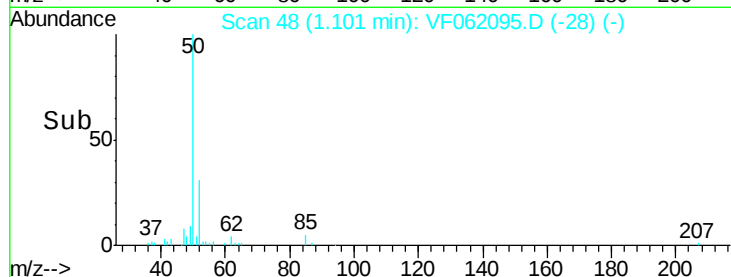
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5000

0

Time-->

1.00 1.10 1.20 1.30



#4

Vinyl Chloride

Concen: 22.787 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF062095.D

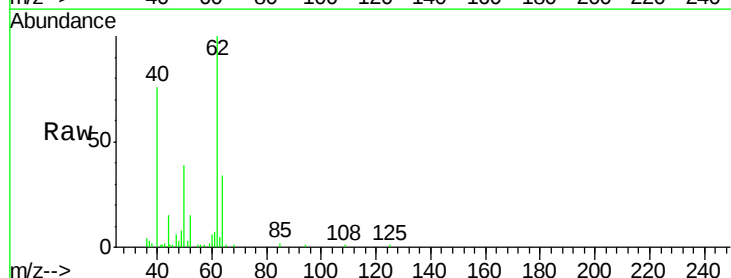
Acq: 22 Mar 2019 23:36

Tgt Ion: 62 Resp: 72979

Ion Ratio Lower Upper

62 100

64 34.0 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

20000

15000

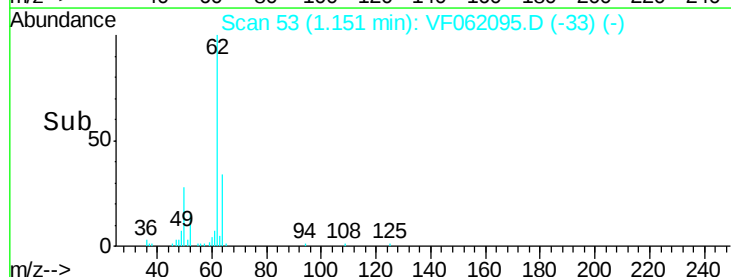
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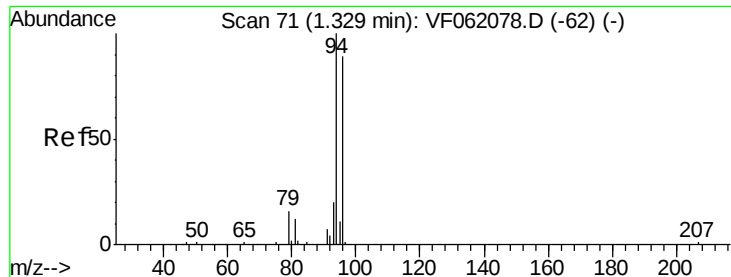
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Time-->

1.00 1.10 1.20 1.30





#5

Bromomethane

Concen: 21.710 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 94 Resp: 49981

Ion Ratio Lower Upper

94 100

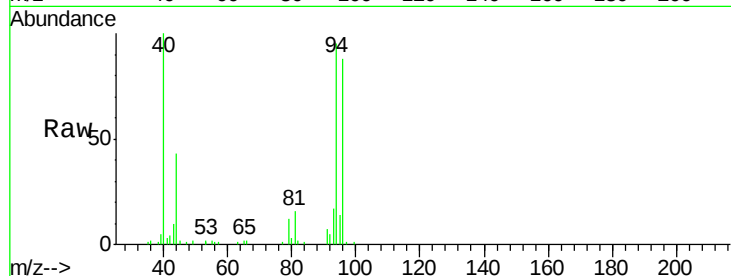
96 92.5 70.9 106.3

Manual Integrations

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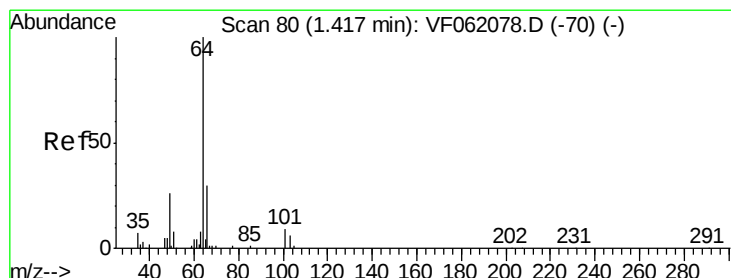
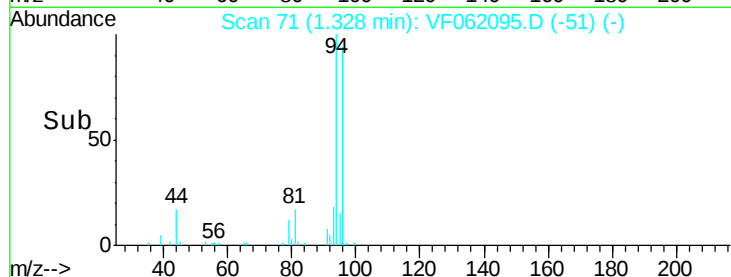
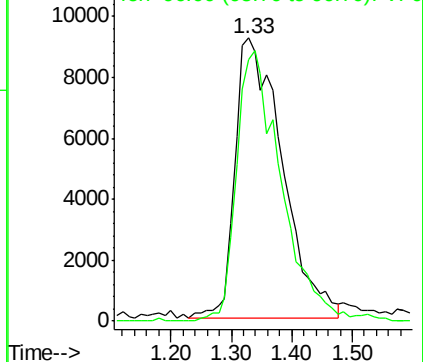
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 22.137 ug/l

RT: 1.41 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF062095.D

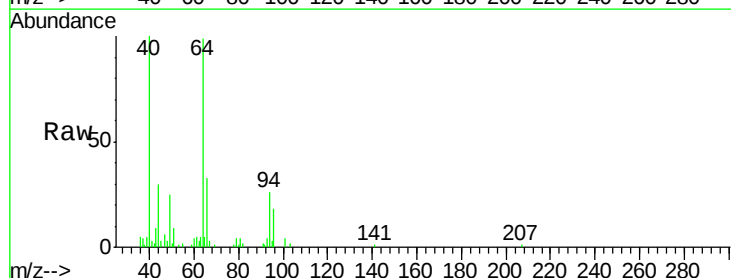
Acq: 22 Mar 2019 23:36

Tgt Ion: 64 Resp: 35691

Ion Ratio Lower Upper

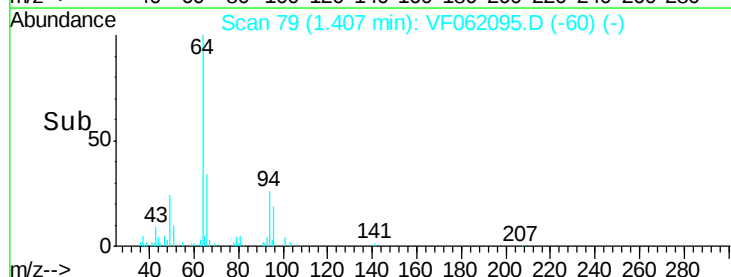
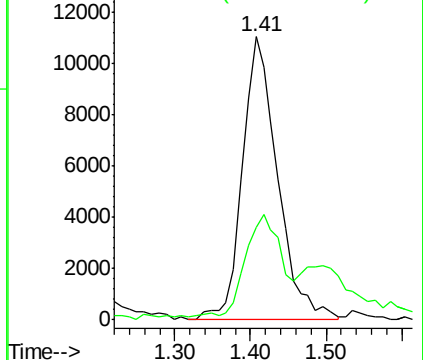
64 100

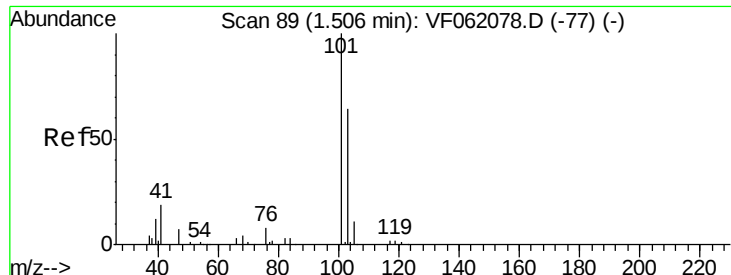
66 32.9 24.5 36.7



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

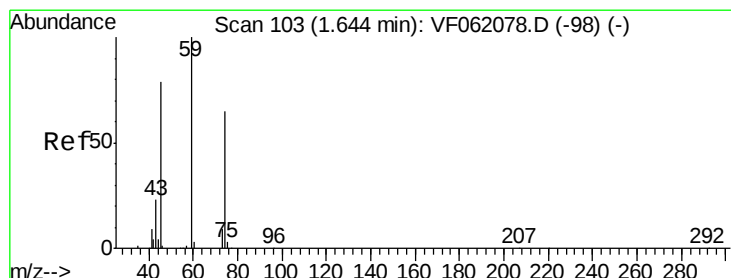
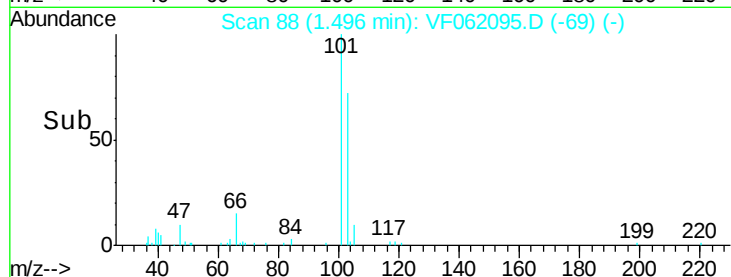
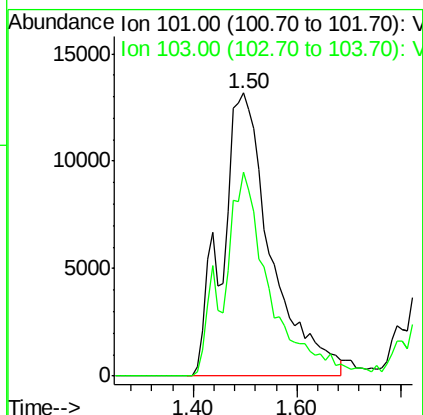
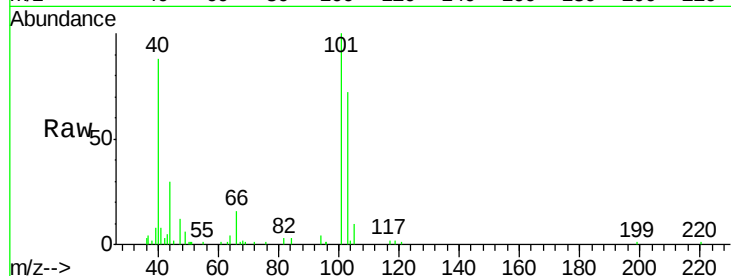
Trichlorofluoromethane
Concen: 22.382 ug/l m
RT: 1.50 min Scan# 88
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion:101 Resp: 86575
Ion Ratio Lower Upper
101 100
103 72.0 51.5 77.3

Manual Integrations
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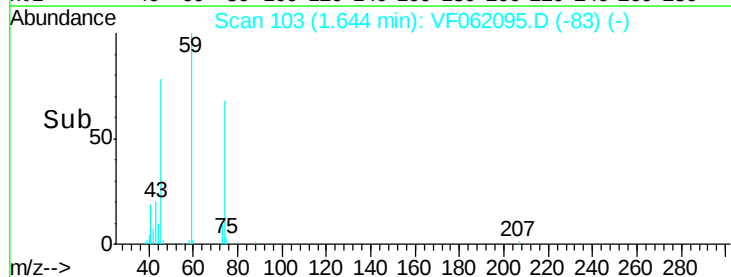
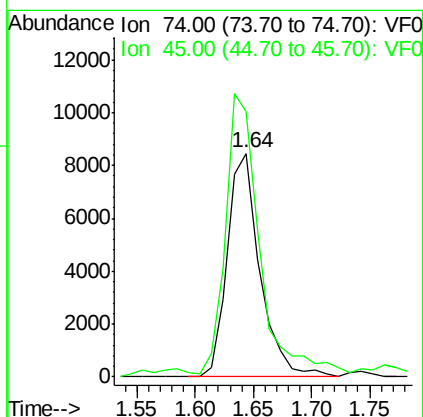
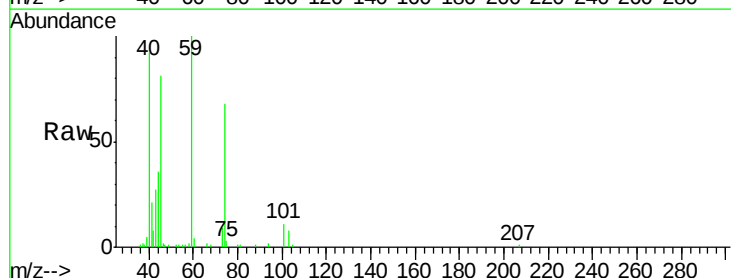
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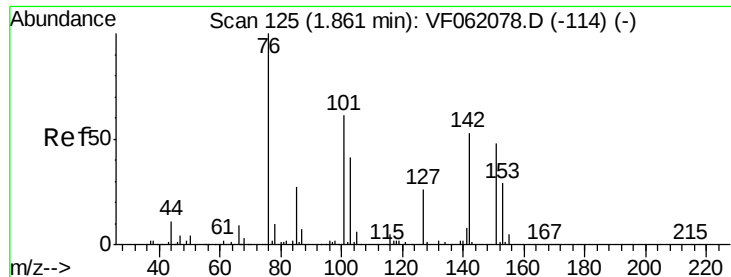


#8

Diethyl Ether
Concen: 18.592 ug/l
RT: 1.64 min Scan# 103
Delta R.T. -0.00 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion: 74 Resp: 16427
Ion Ratio Lower Upper
74 100
45 118.5 61.4 184.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.661 ug/l

RT: 1.86 min Scan# 125

Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

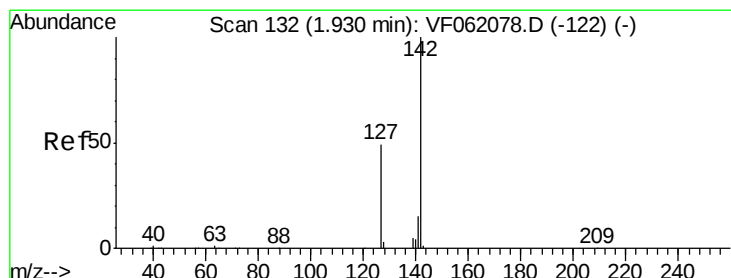
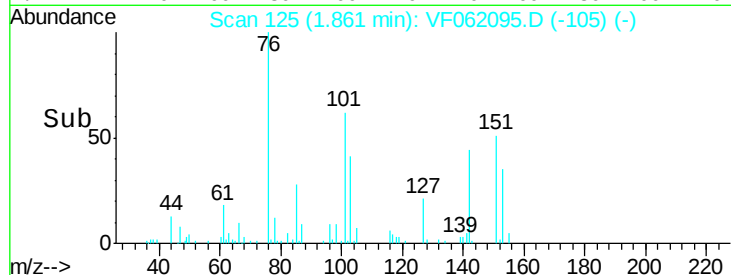
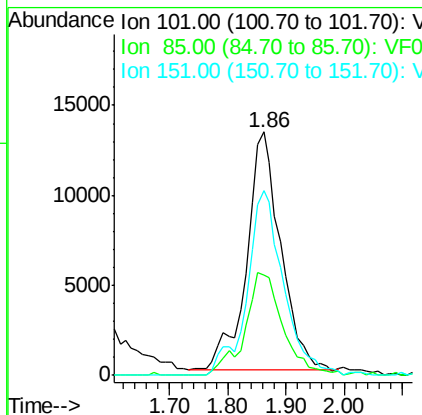
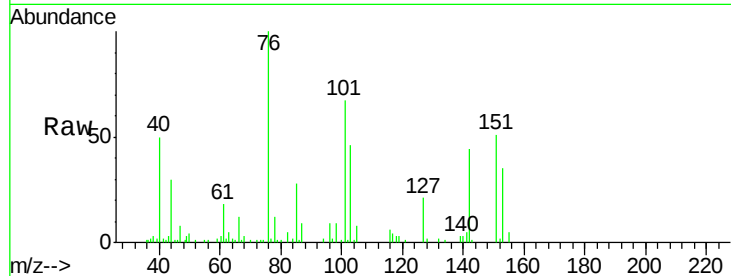
ClientSampleId :

VF0322SBS02

Tot Ion:	101	Resp:	54522
Ion Ratio	Lower	Upper	
101	100		
85	41.2	34.6	52.0
151	75.7	61.7	92.5

Manual Integrations
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#10

Methyl Iodide

Concen: 22.168 ug/l m

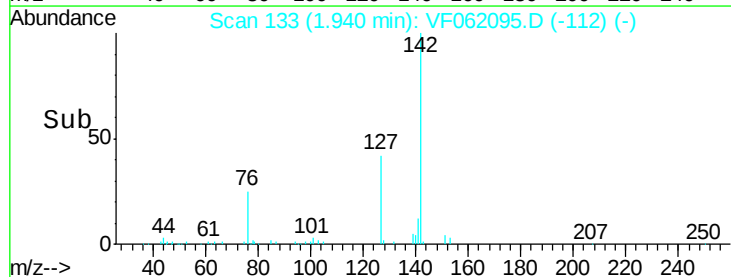
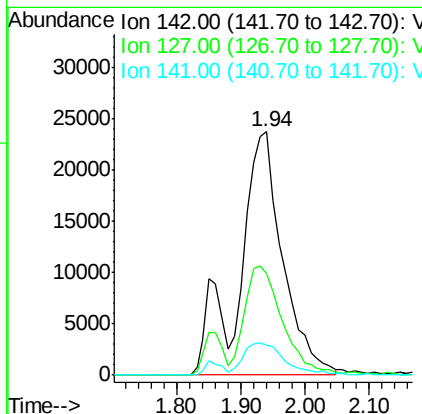
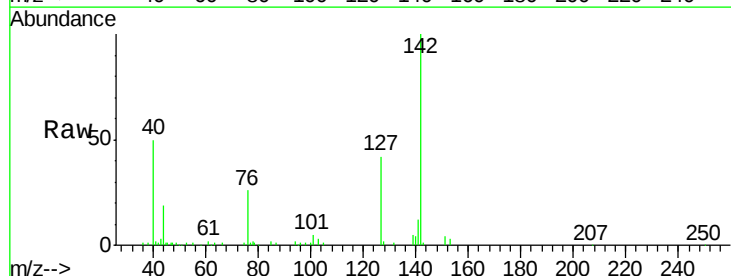
RT: 1.94 min Scan# 133

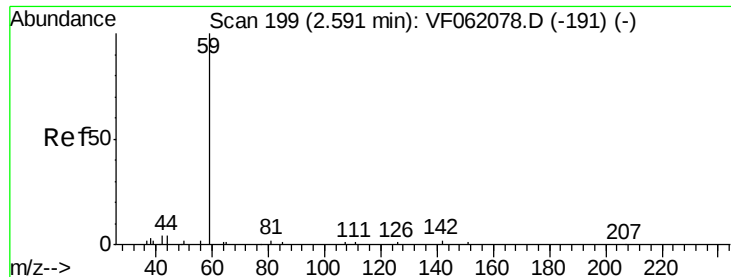
Delta R.T. 0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Tgt Ion:	142	Resp:	111163
Ion Ratio	Lower	Upper	
142	100		
127	41.7	39.1	58.7
141	12.2	12.2	18.4#





#11

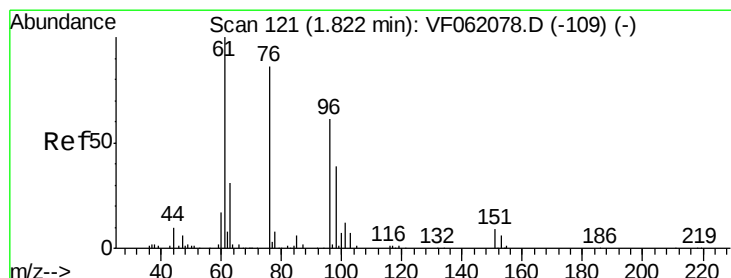
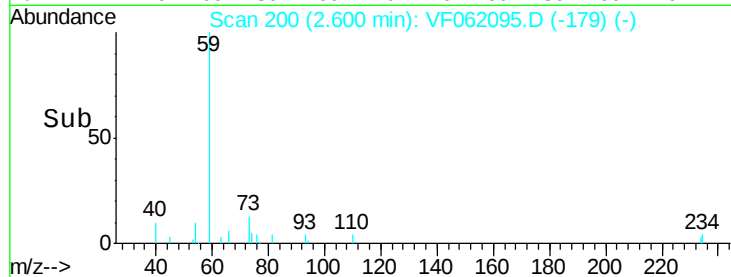
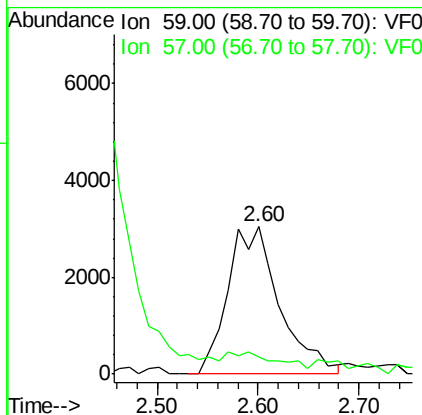
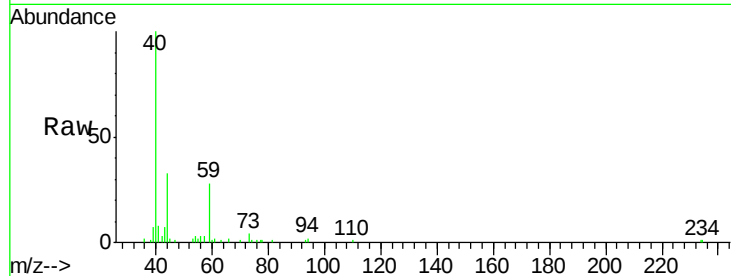
Tert butyl alcohol
Concen: 103.242 ug/l
RT: 2.60 min Scan# 200
Delta R.T. 0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	59	Resp	10914
Ion Ratio	100	Lower	Upper
57	11.7	11.0	16.4

Manual Integrations
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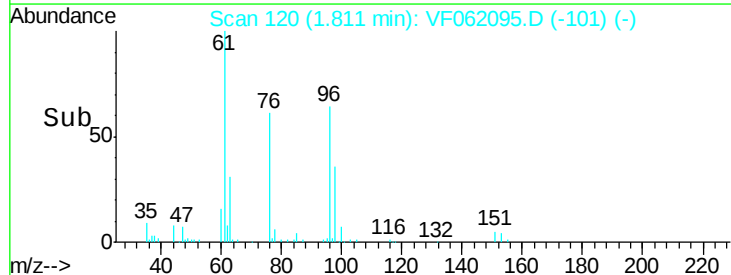
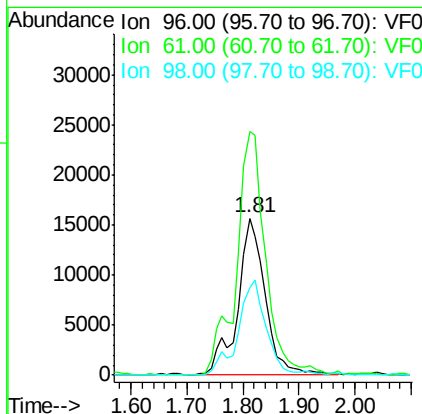
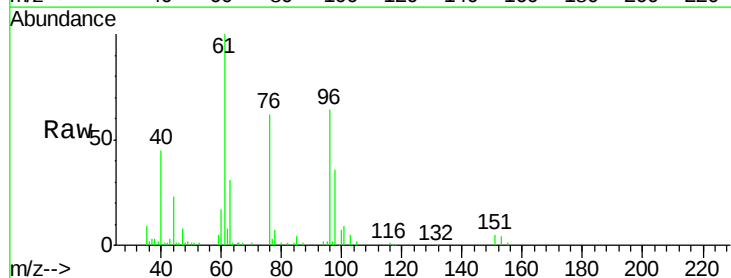
MMDadoda
3/29/2019 10:25:22 AM

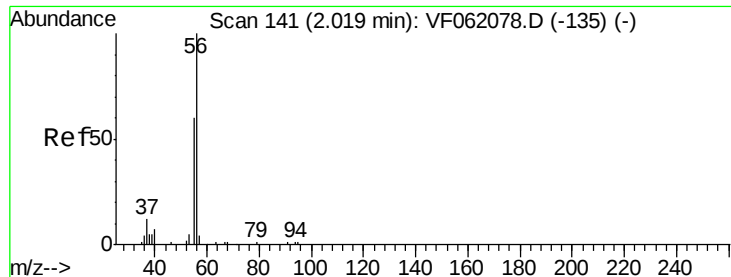


#12

1,1-Dichloroethene
Concen: 21.713 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	96	Resp	54063
Ion Ratio	100	Lower	Upper
61	155.4	131.0	196.6
98	56.0	51.5	77.3





#13

Acrolein

Concen: 108.299 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 56 Resp: 13767

Ion Ratio Lower Upper

56 100

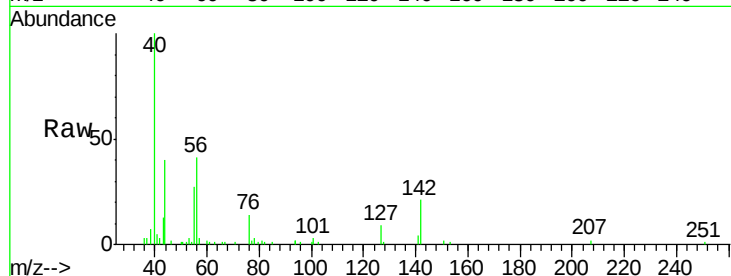
55 65.9 49.0 73.4

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

5000

4000

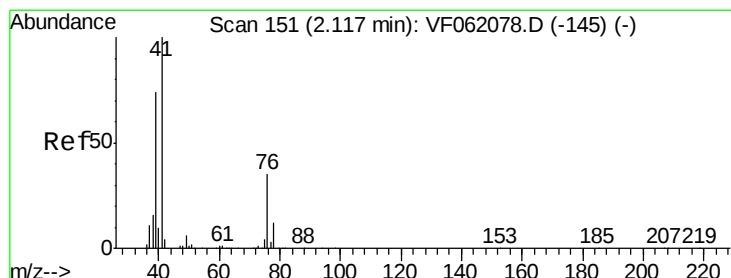
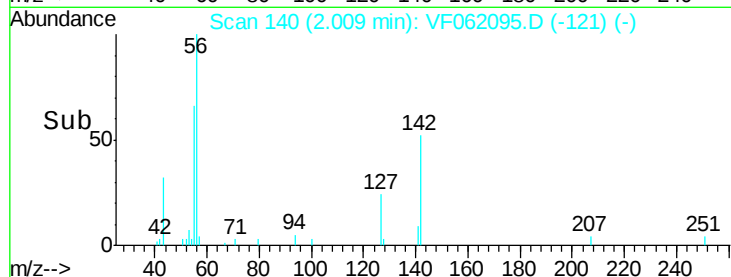
3000

2000

1000

0

Time-->



#14

Allyl chloride

Concen: 20.959 ug/l

RT: 2.11 min Scan# 150

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

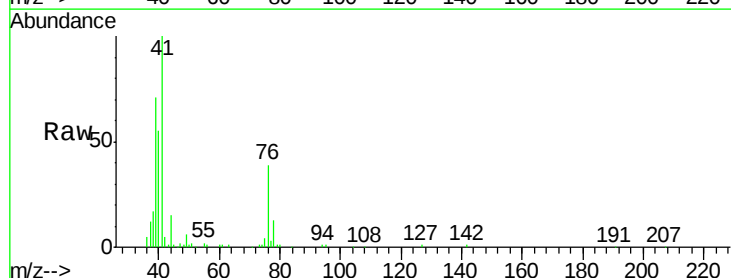
Tgt Ion: 41 Resp: 55715

Ion Ratio Lower Upper

41 100

39 71.4 59.8 89.8

76 38.8 30.0 45.0



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0

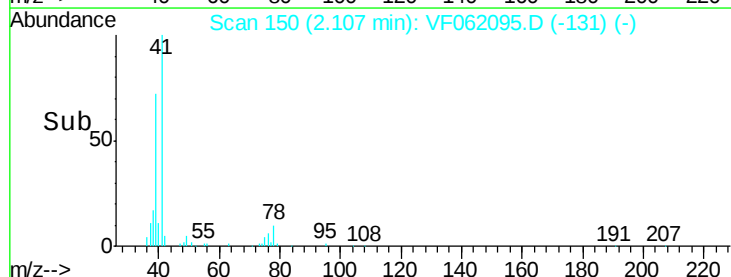
30000

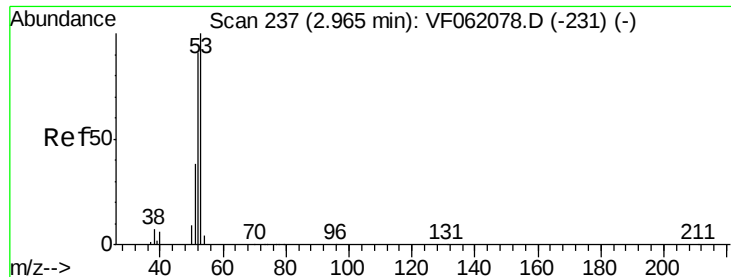
20000

10000

0

Time-->





#15

Acrylonitrile

Concen: 102.791 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

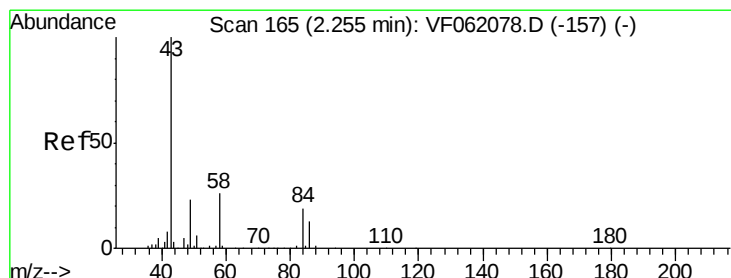
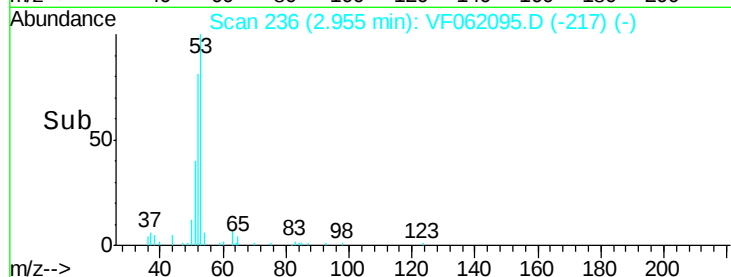
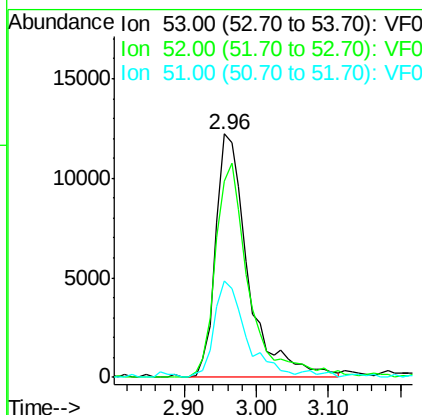
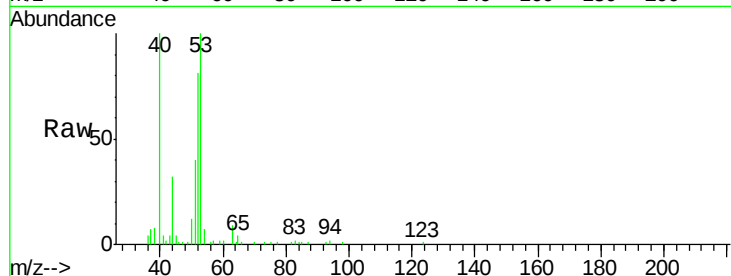
ClientSampleId :

VF0322SBS02

Tot Ion:	53	Resp:	38211
Ion	Ratio	Lower	Upper
53	100		
52	80.6	72.3	108.5
51	39.5	30.4	45.6

Manual Integrations
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#16

Acetone

Concen: 79.223 ug/l

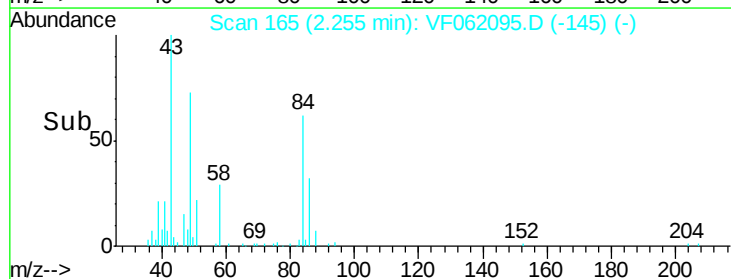
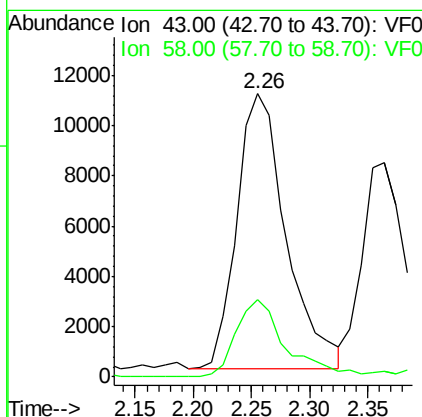
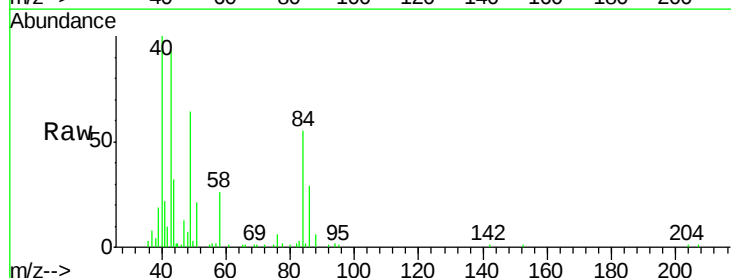
RT: 2.26 min Scan# 165

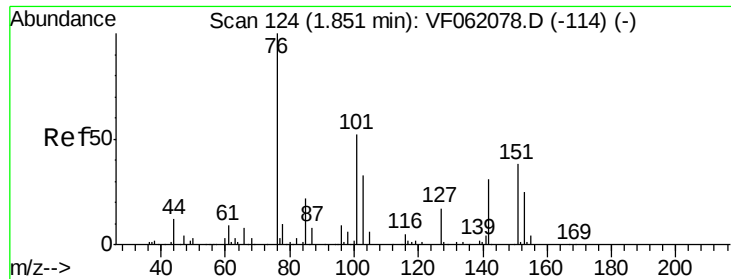
Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Tgt Ion:	43	Resp:	32035
Ion	Ratio	Lower	Upper
43	100		
58	27.5	20.8	31.2





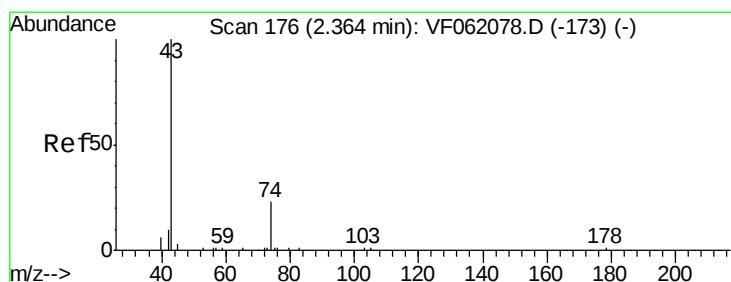
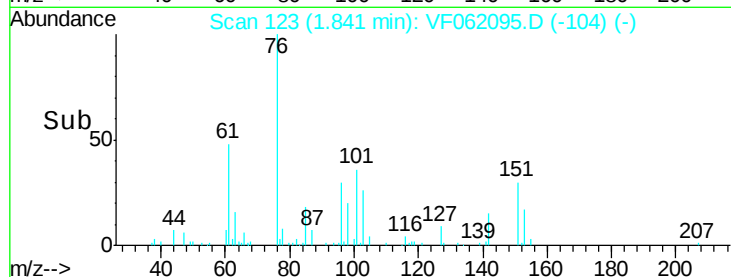
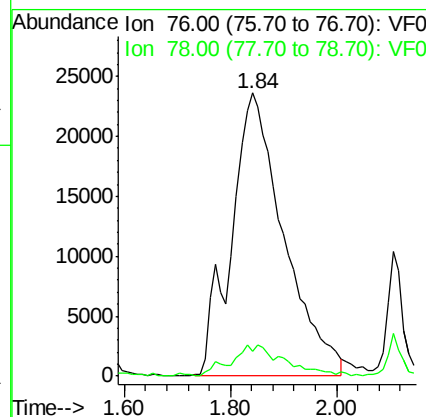
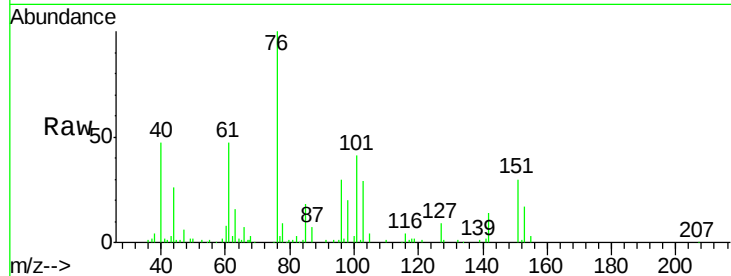
#17
Carbon Disulfide
Concen: 21.421 ug/l m
RT: 1.84 min Scan# 123
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion: 76 Resp: 162643
Ion Ratio Lower Upper
76 100
78 8.7 7.9 11.9

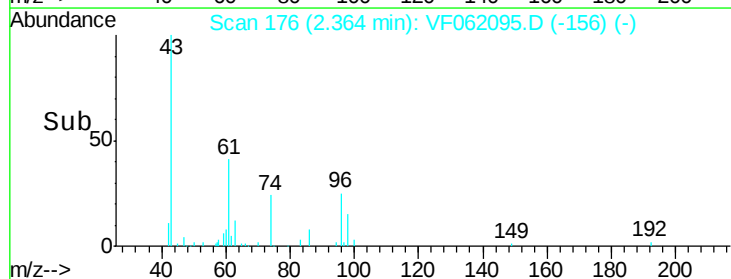
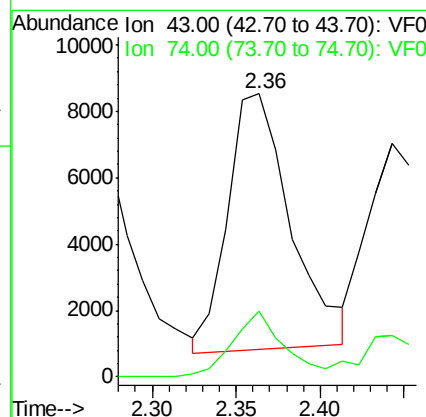
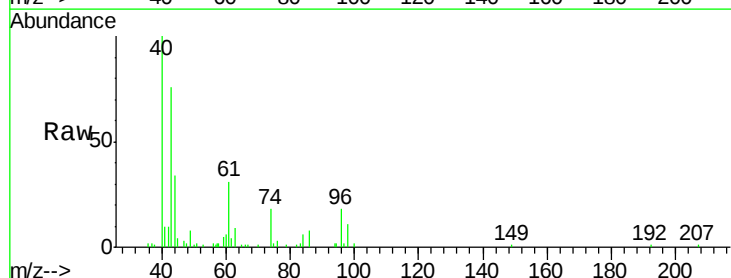
Manual Integrations
APPROVED

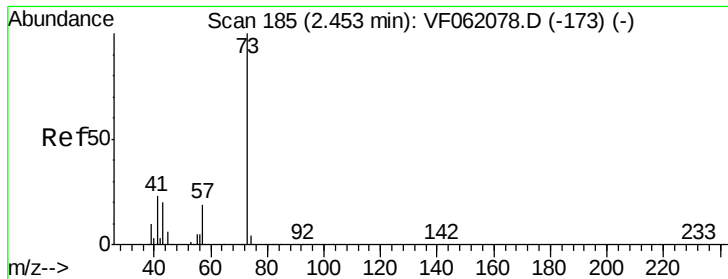
MMDadoda
3/29/2019 10:25:22 AM



#18
Methyl Acetate
Concen: 20.788 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion: 43 Resp: 20052
Ion Ratio Lower Upper
43 100
74 23.2 16.3 24.5





#19

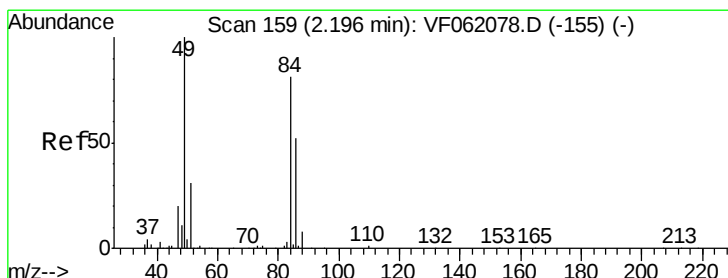
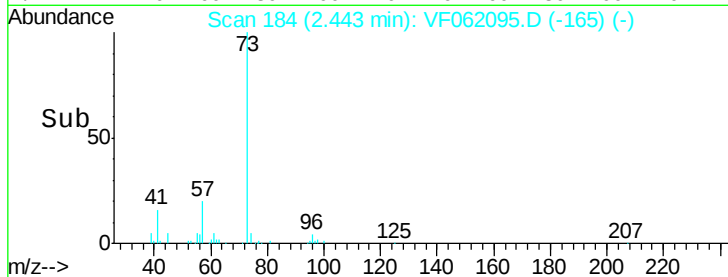
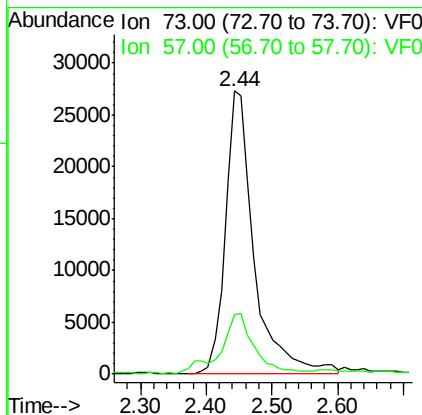
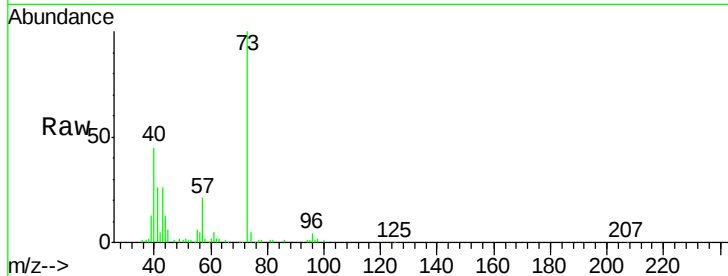
Methyl tert-butyl Ether
 Concen: 21.271 ug/l
 RT: 2.44 min Scan# 184
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS02

Tot Ion	73	Resp	83705
Ion Ratio	100	Lower	Upper
73	100		
57	21.0	15.1	22.7

Manual Integrations
 APPROVED

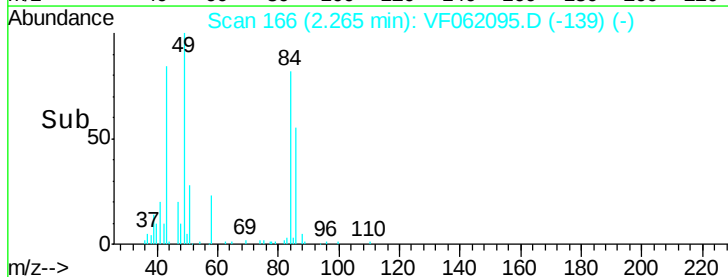
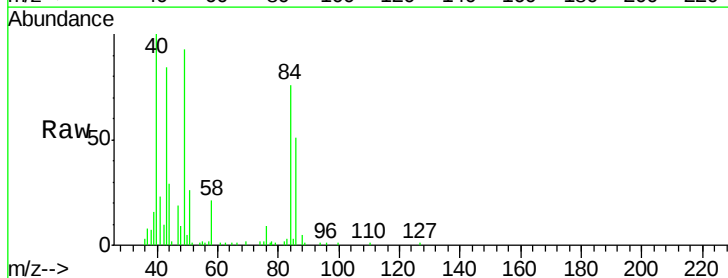
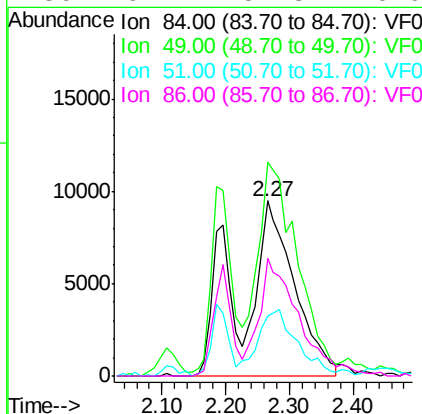
MMDadoda
 3/29/2019 10:25:22 AM

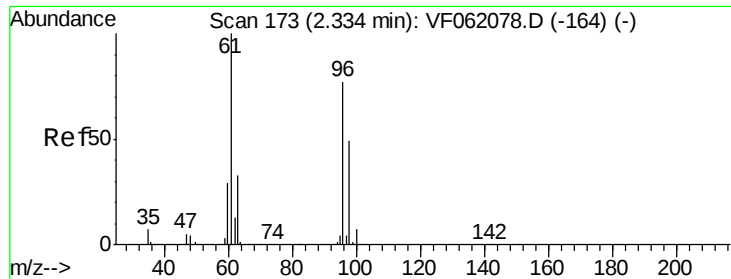


#20

Methylene Chloride
 Concen: 20.993 ug/l m
 RT: 2.27 min Scan# 166
 Delta R.T. 0.07 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Tgt Ion	84	Resp	55569
Ion Ratio	100	Lower	Upper
84	100		
49	122.2	100.4	150.6
51	34.5	31.0	46.6
86	67.2	51.3	76.9





#21

trans-1,2-Dichloroethene

Concen: 18.932 ug/l

RT: 2.32 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

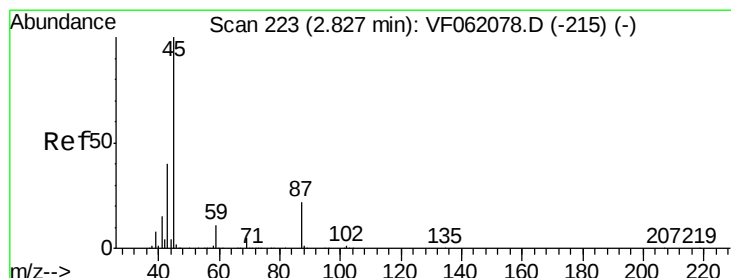
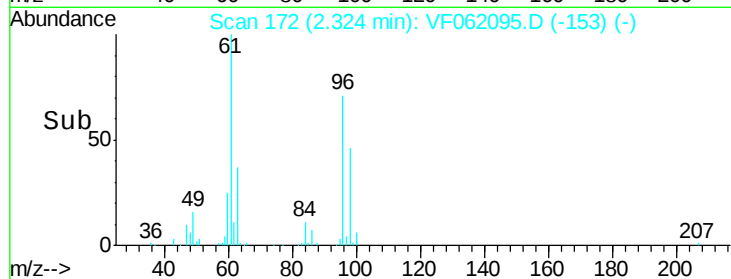
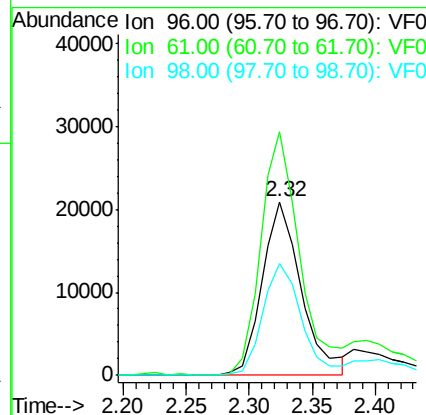
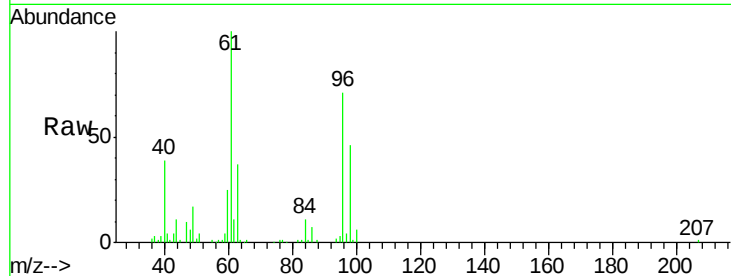
ClientSampleId :

VF0322SBS02

Tot Ion:	96	Resp:	45354
Ion	Ratio	Lower	Upper
96	100		
61	140.3	104.5	156.7
98	64.6	51.2	76.8

Manual Integrations
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3/29/2019 10:25:22 AM



#22

Diisopropyl ether

Concen: 22.647 ug/l

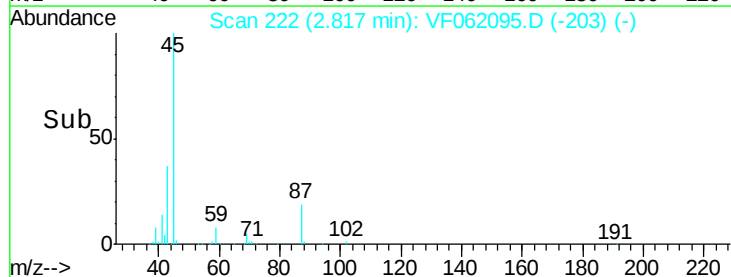
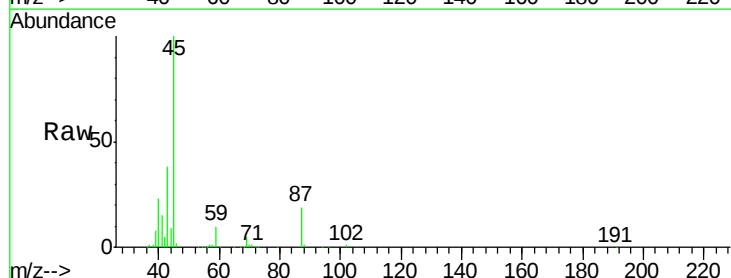
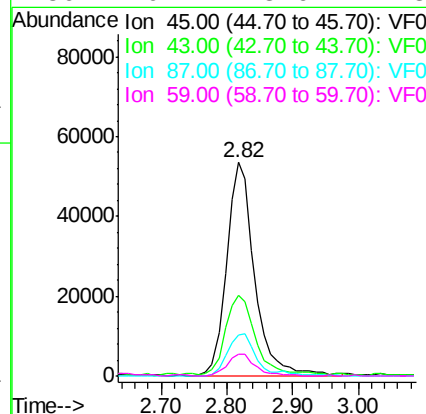
RT: 2.82 min Scan# 222

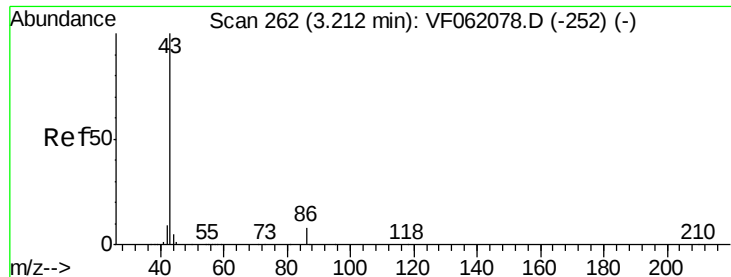
Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Tgt Ion:	45	Resp:	157842
Ion	Ratio	Lower	Upper
45	100		
43	37.8	32.5	48.7
87	19.0	17.4	26.2
59	10.1	8.6	12.8





#23

Vinyl Acetate

Concen: 111.324 ug/l

RT: 3.21 min Scan# 262

Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 43 Resp: 317670

Ion Ratio Lower Upper

43 100

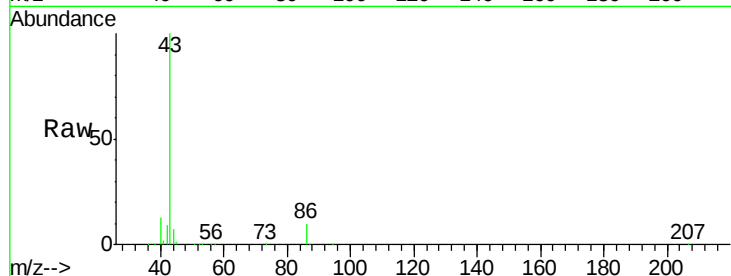
86 9.5 6.8 10.2

Manual Integrations

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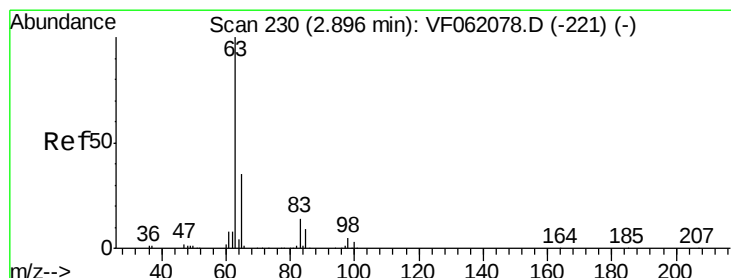
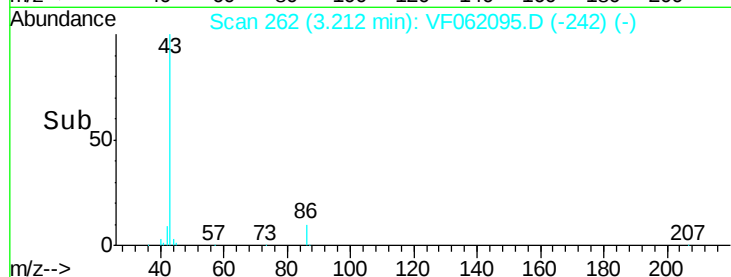
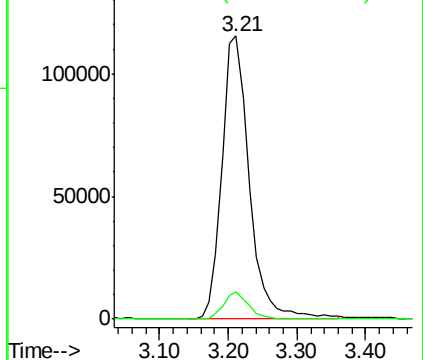
MMDadoda

3/29/2019 10:25:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 22.661 ug/l

RT: 2.89 min Scan# 229

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

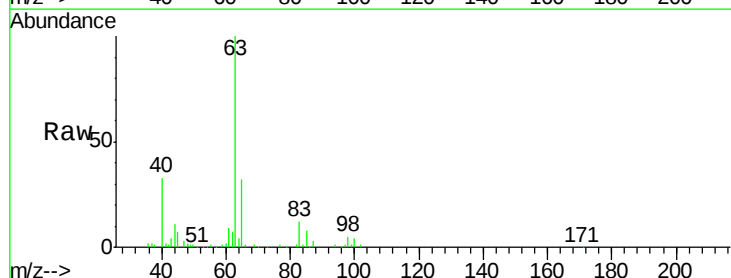
Tgt Ion: 63 Resp: 94711

Ion Ratio Lower Upper

63 100

98 5.5 2.7 8.1

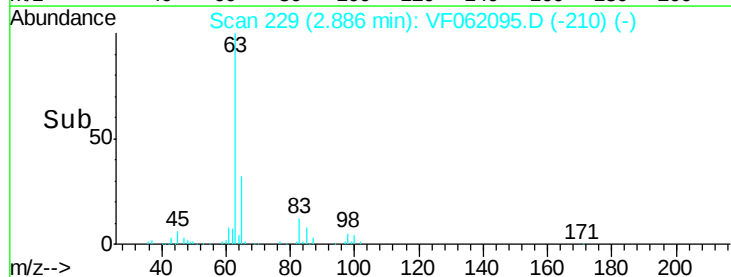
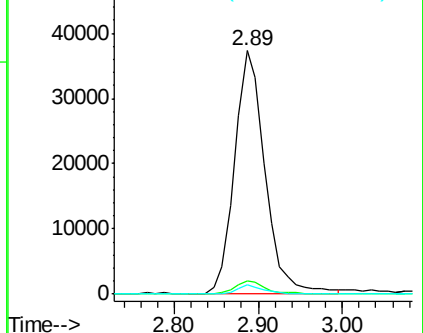
100 3.6 1.7 5.1

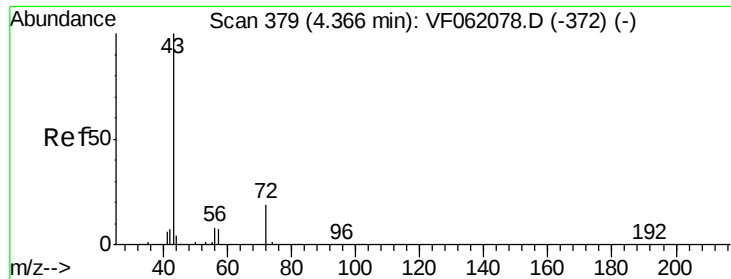


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 99.766 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 43 Resp: 84219

Ion Ratio Lower Upper

43 100

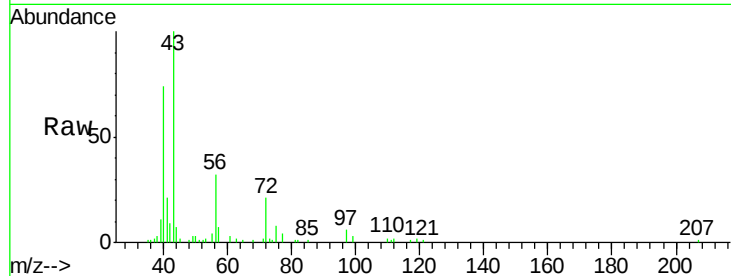
72 21.0 16.7 25.1

Manual Integrations

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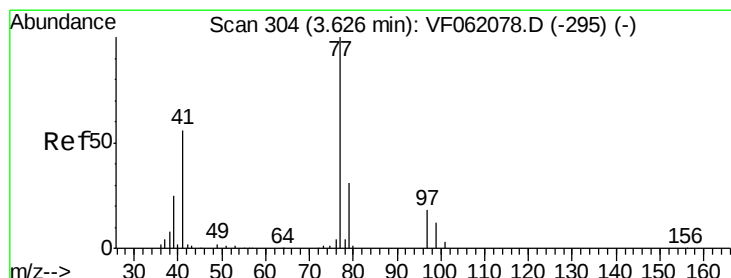
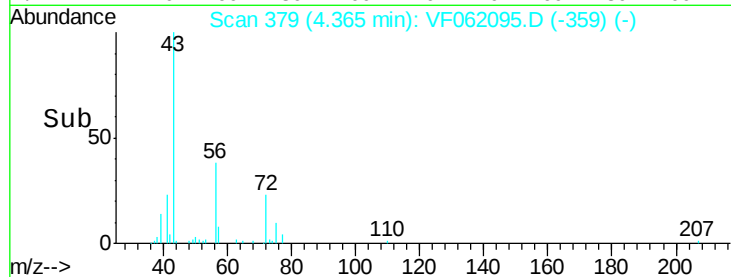
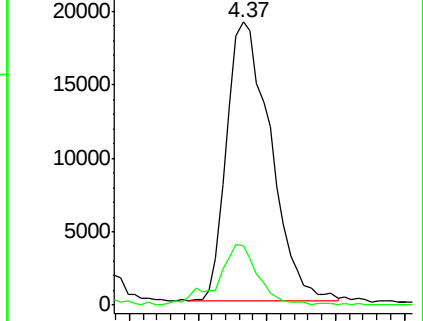
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 20.169 ug/l

RT: 3.62 min Scan# 303

Delta R.T. -0.01 min

Lab File: VF062095.D

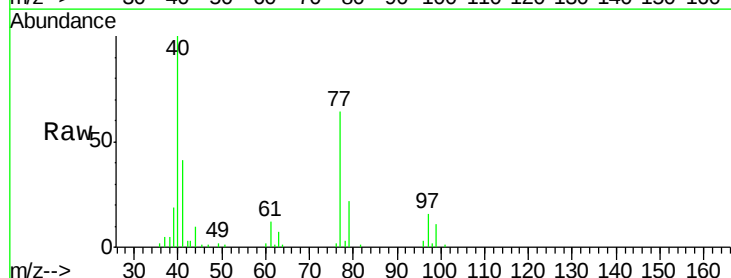
Acq: 22 Mar 2019 23:36

Tgt Ion: 77 Resp: 34178

Ion Ratio Lower Upper

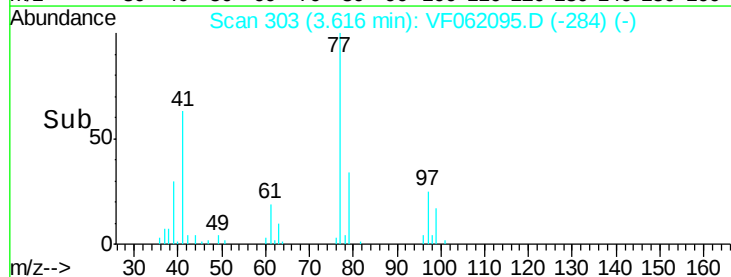
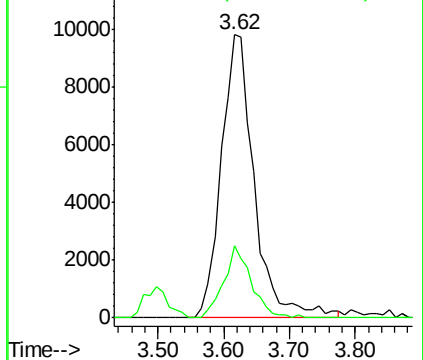
77 100

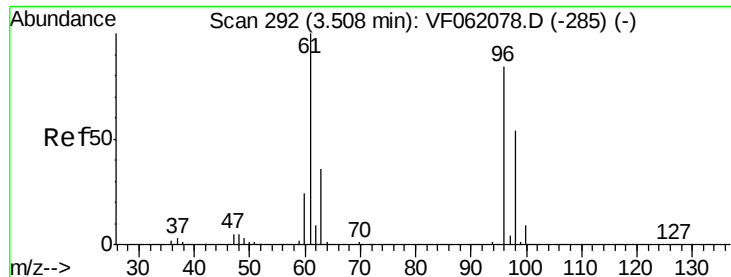
97 25.3 10.3 30.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0





#27

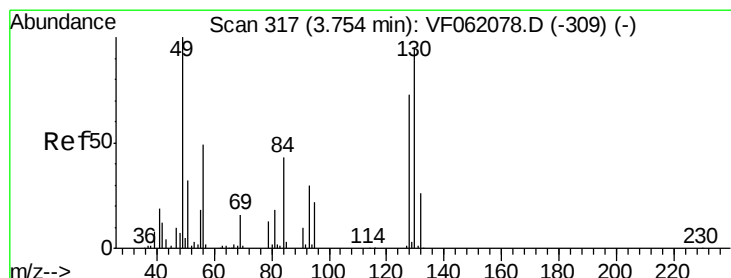
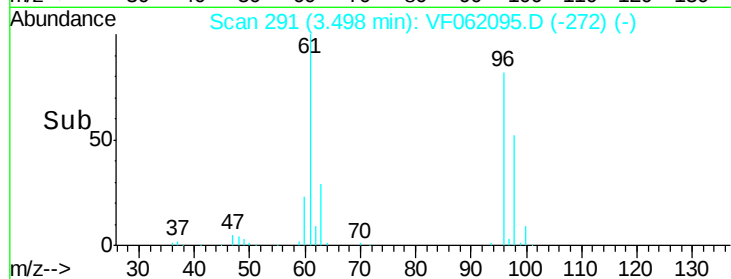
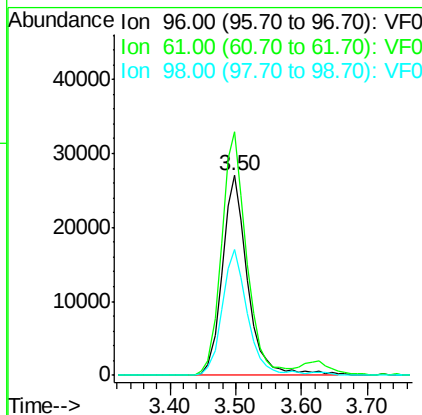
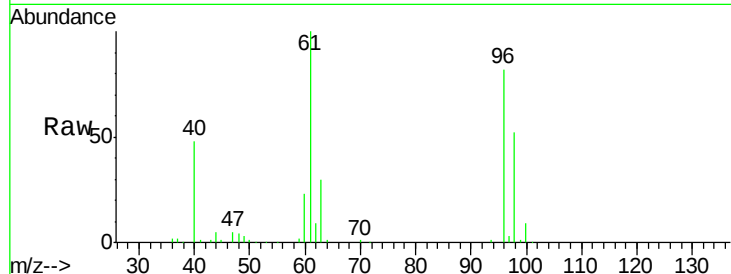
cis-1,2-Dichloroethene
Concen: 22.852 ug/l
RT: 3.50 min Scan# 291
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	Ratio	Lower	Upper
96	100		
61	121.8	0.0	239.0
98	63.0	0.0	128.2

Manual Integrations
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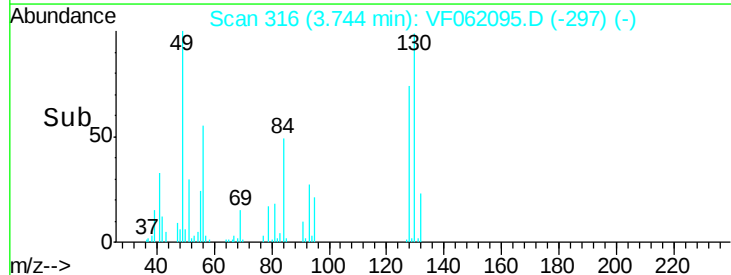
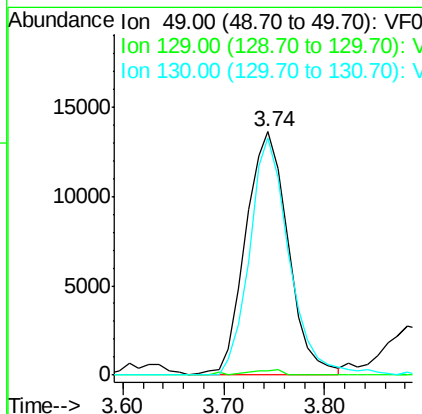
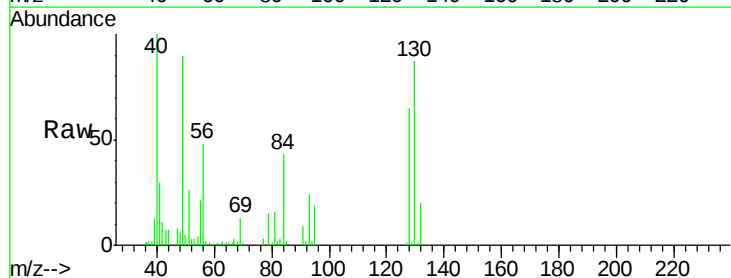
MMDadoda
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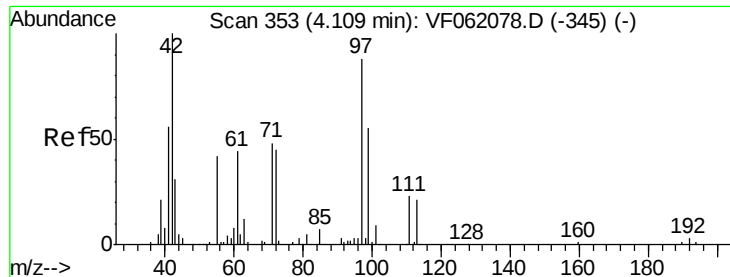


#28

Bromochloromethane
Concen: 23.462 ug/l
RT: 3.74 min Scan# 316
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	5.6
130	97.2	75.5	113.3





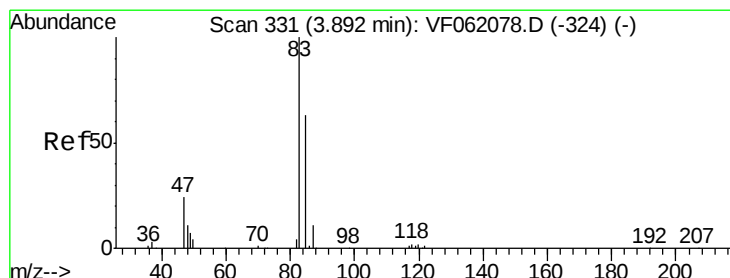
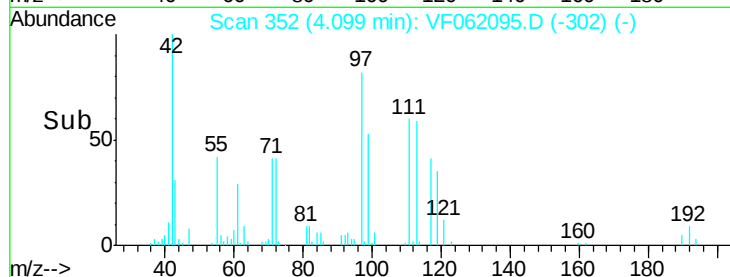
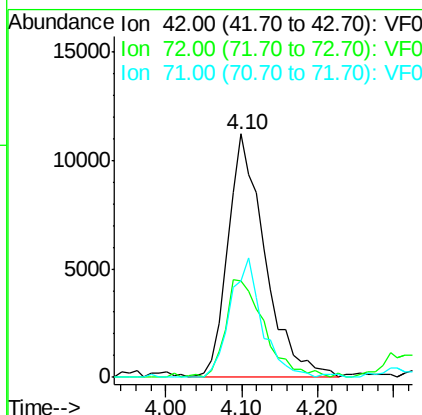
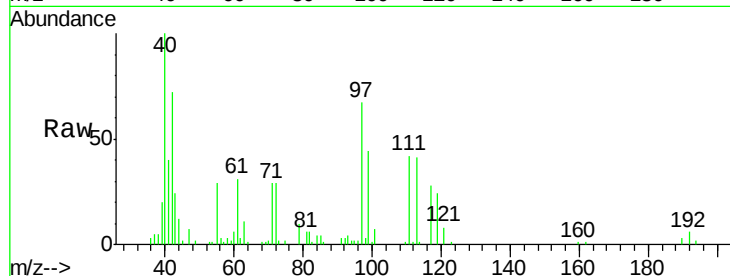
#29
Tetrahydrofuran
Concen: 104.130 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	Ratio	Resp	Lower	Upper
42	100			
72	42.1	33.3	49.9	
71	41.9	35.0	52.4	

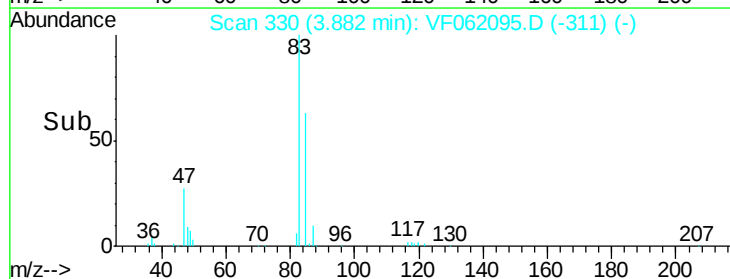
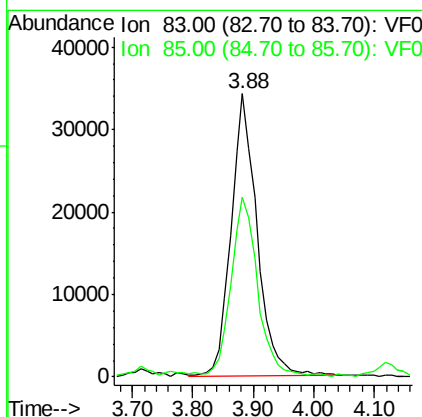
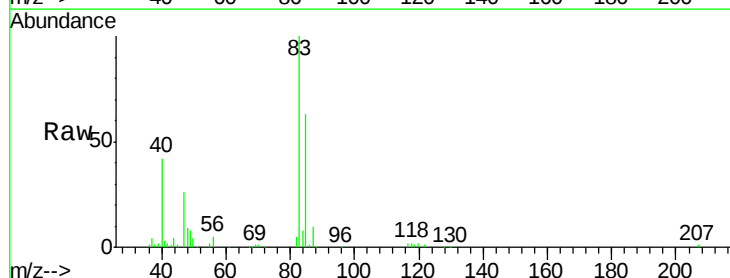
Manual Integrations
APPROVED

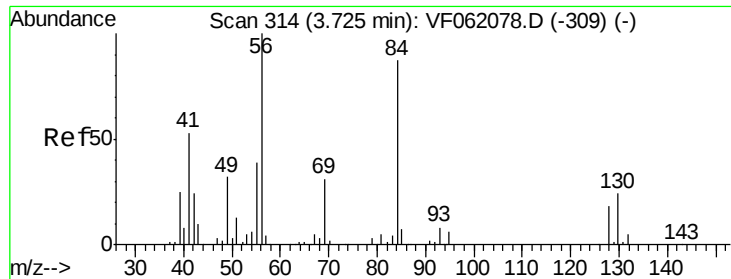
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#30
Chloroform
Concen: 23.074 ug/l
RT: 3.88 min Scan# 330
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Resp	Lower	Upper
83	100			
85	63.4	51.5	77.3	





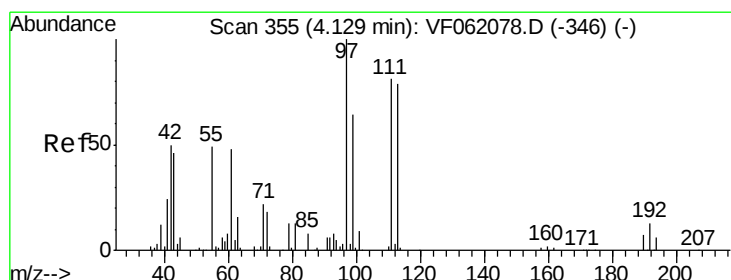
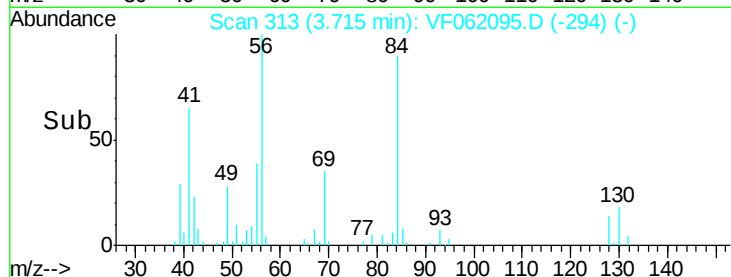
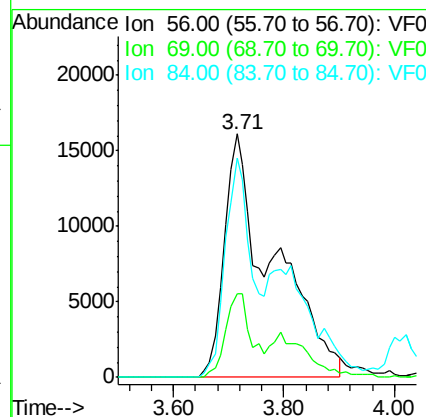
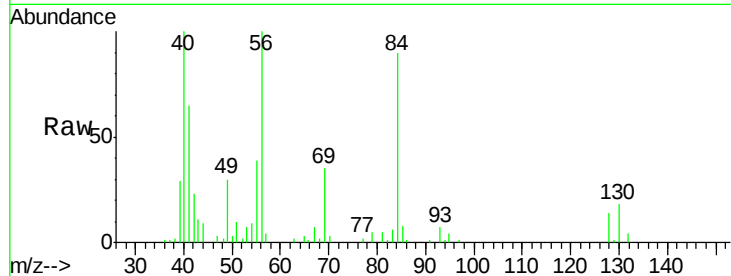
#31
Cyclohexane
Concen: 22.506 ug/l m
RT: 3.71 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	Ratio	Lower	Upper
56	100		
69	34.5	25.9	38.9
84	90.1	71.1	106.7

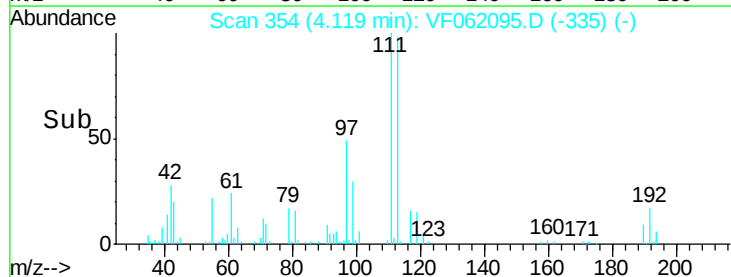
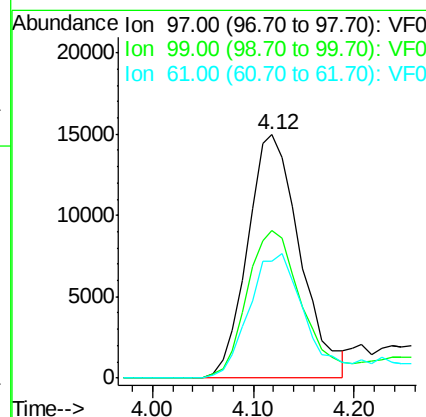
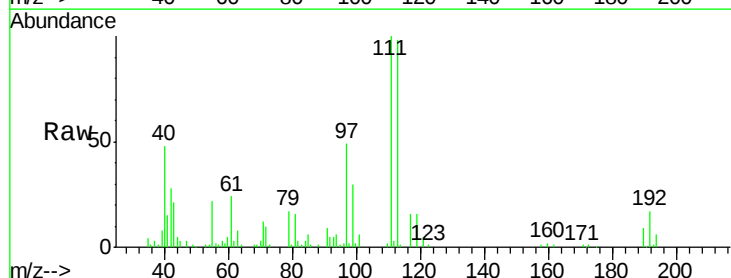
Manual Integrations
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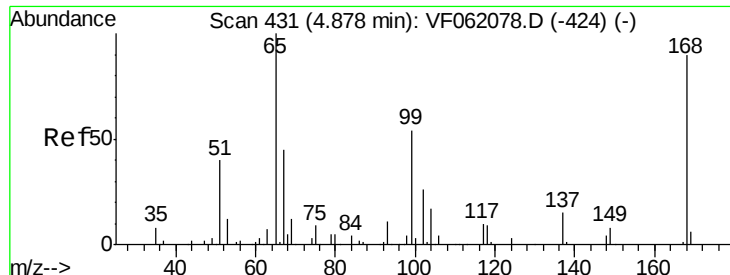
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#32
1,1,1-Trichloroethane
Concen: 20.135 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
97	100		
99	60.6	51.3	76.9
61	48.3	39.0	58.6





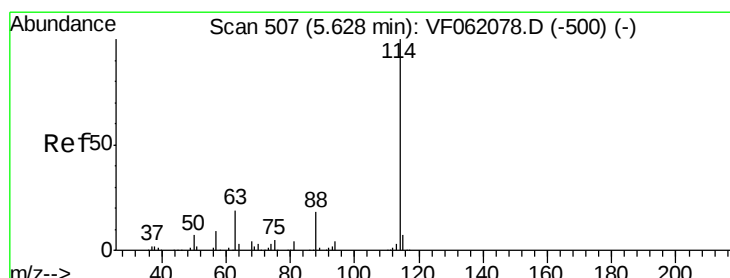
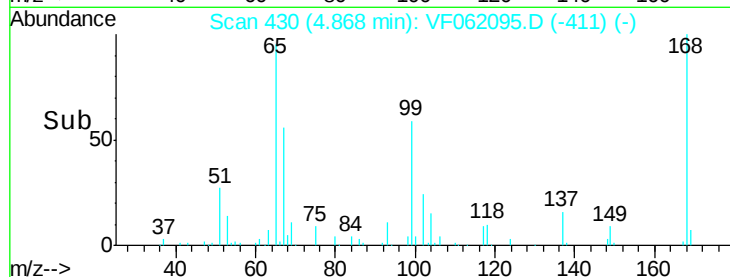
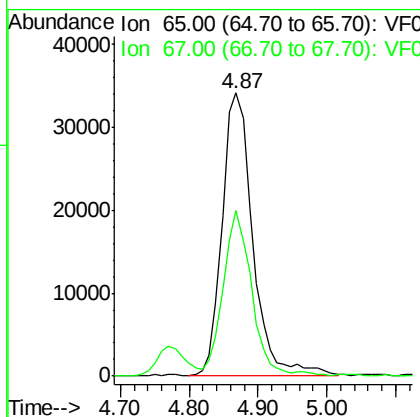
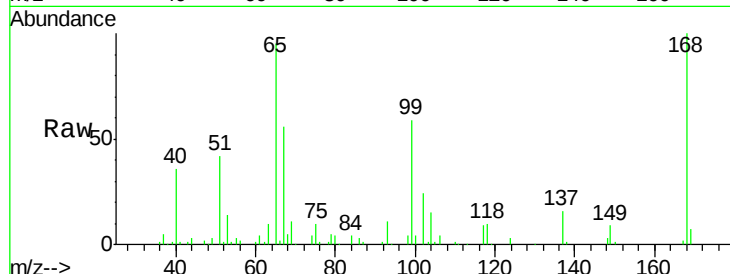
#33
 1,2-Dichloroethane-d4
 Concen: 55.144 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	105947		
67	58.5	0.0	106.2	

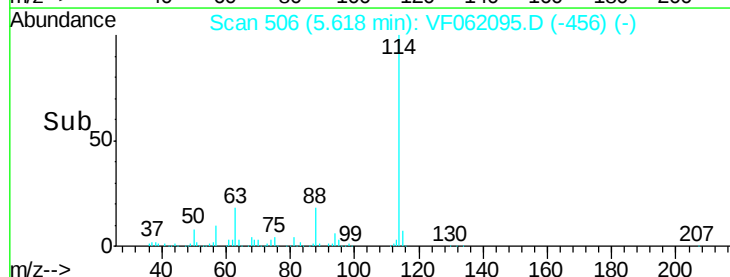
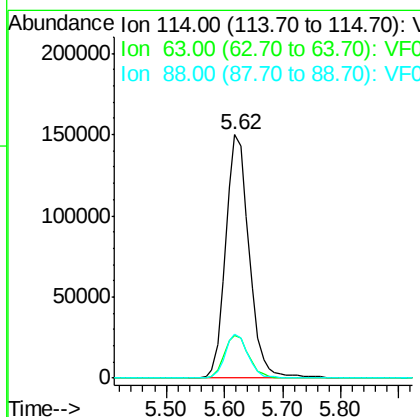
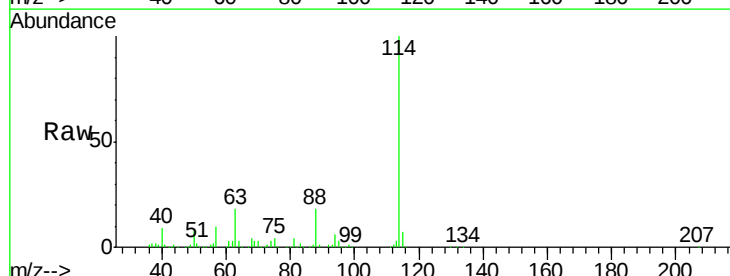
Manual Integrations
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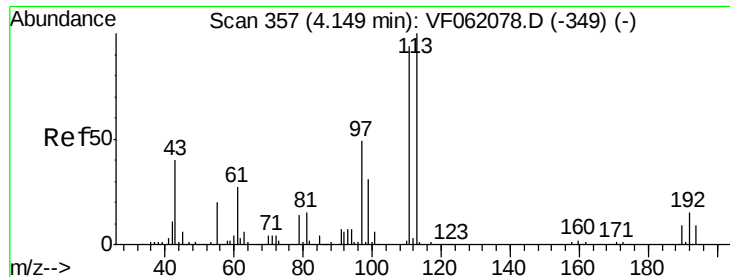
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	420585		
63	17.6	0.0	37.8	
88	18.0	0.0	36.4	





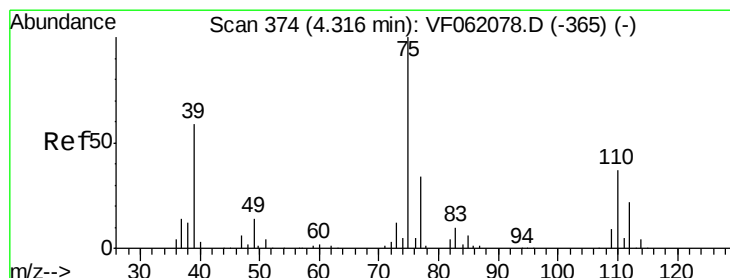
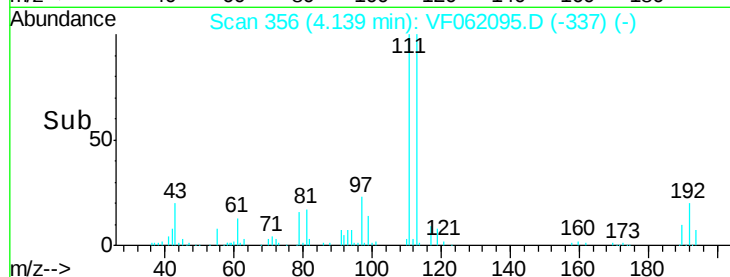
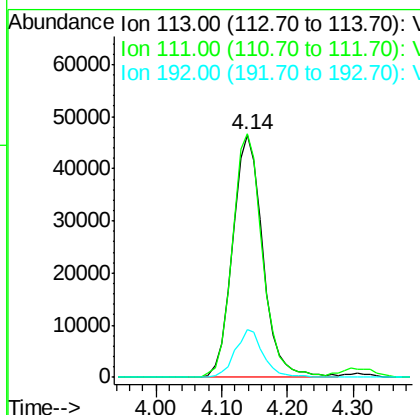
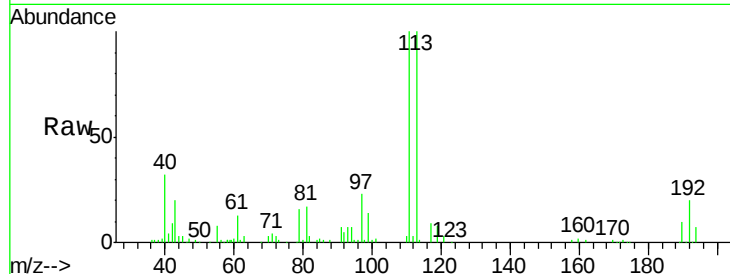
#35
 Dibromofluoromethane
 Concen: 52.660 ug/l
 RT: 4.14 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	149821		
111	100.4	75.4	113.0	
192	19.6	12.3	18.5	

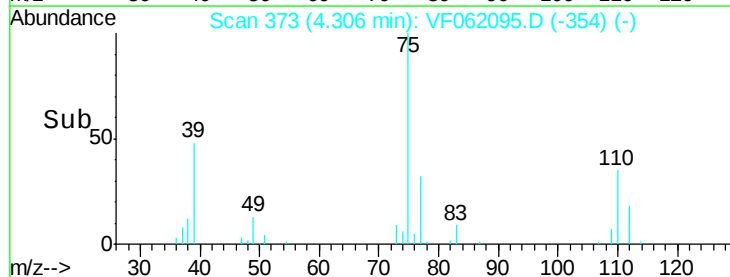
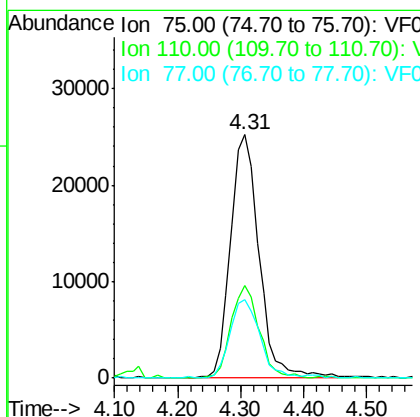
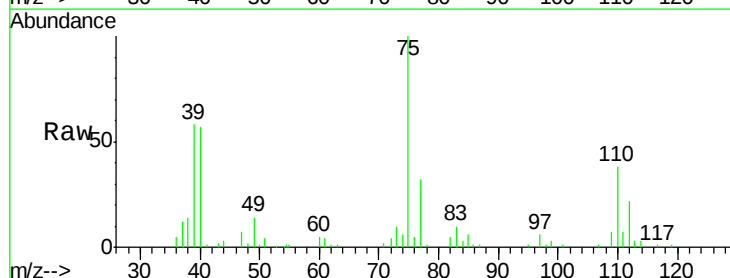
Manual Integrations
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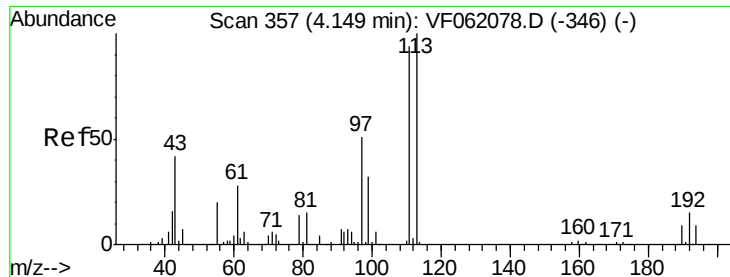
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#36
 1,1-Dichloropropene
 Concen: 19.789 ug/l
 RT: 4.31 min Scan# 373
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	79277		
110	38.1	18.5	55.5	
77	32.0	27.4	41.0	





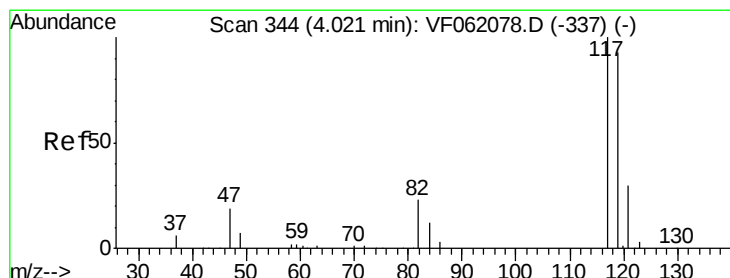
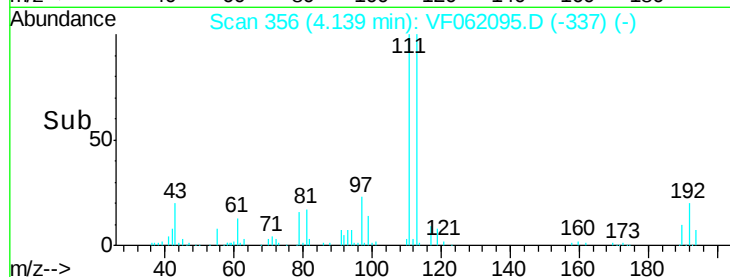
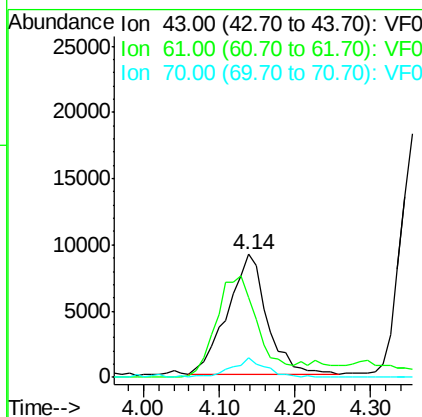
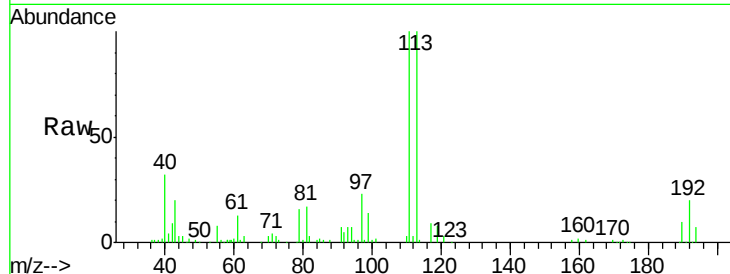
#37
Ethyl Acetate
Concen: 18.963 ug/l
RT: 4.14 min Scan# 356
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	43	61	70	Ratio	Lower	Upper
33199	100	64.7	15.8			
		53.6	9.0			
			13.6			

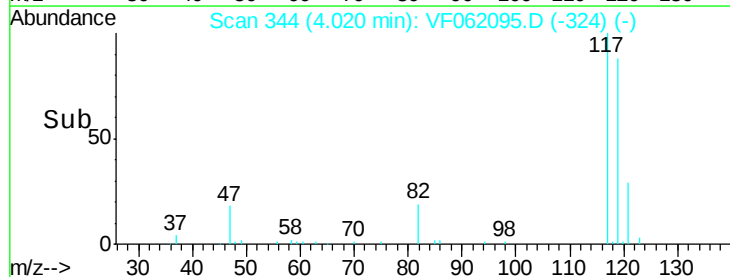
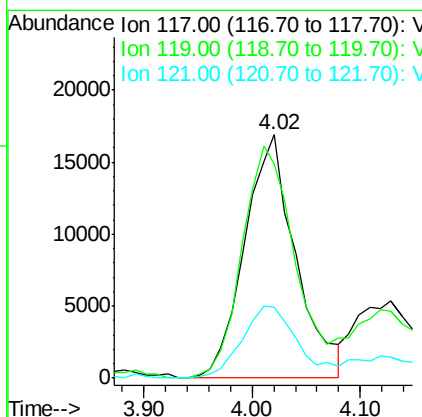
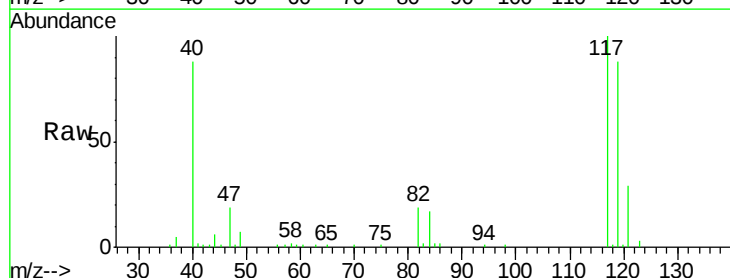
Manual Integrations
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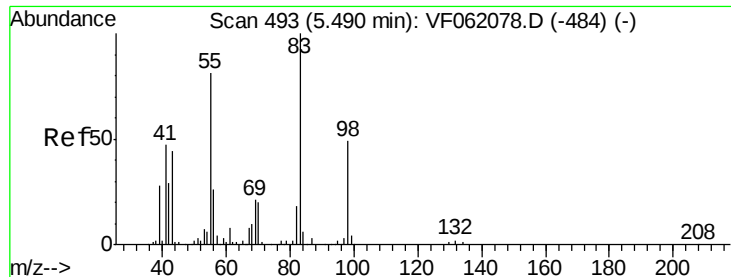
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#38
Carbon Tetrachloride
Concen: 20.347 ug/l
RT: 4.02 min Scan# 344
Delta R.T. -0.00 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	117	119	121	Ratio	Lower	Upper
55555	100	87.9	29.0			
		74.7	23.6			
			35.4			





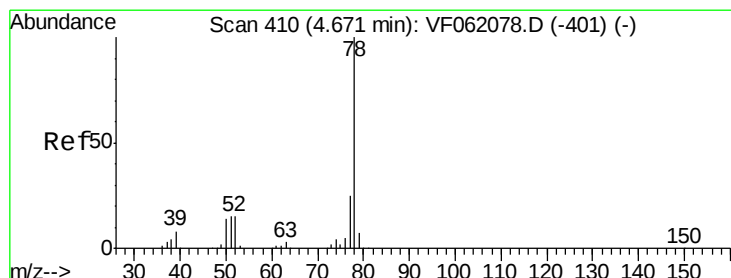
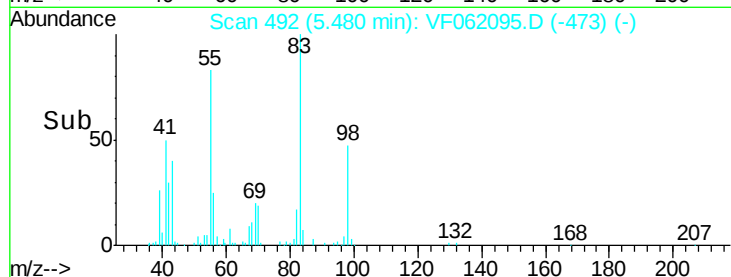
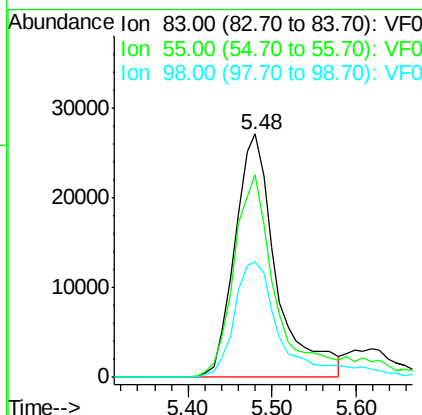
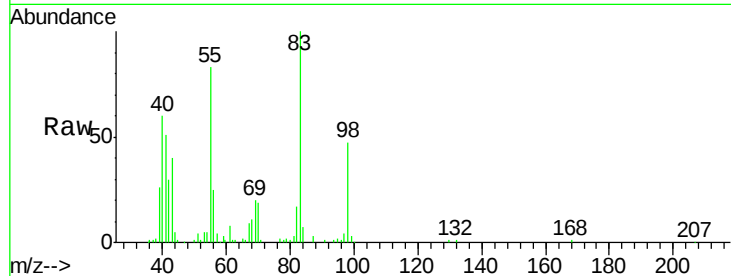
#39
Methvlcvclohexane
Concen: 20.085 ug/l
RT: 5.48 min Scan# 492
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	83.5	64.5	96.7	
98	47.2	39.1	58.7	

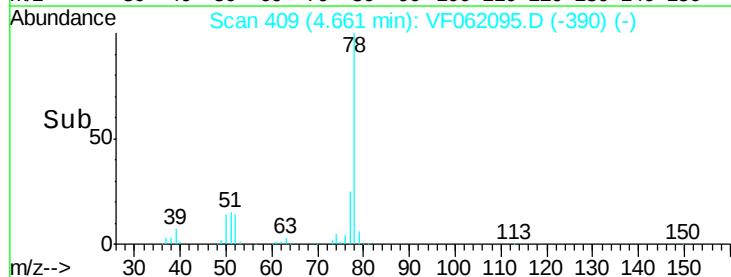
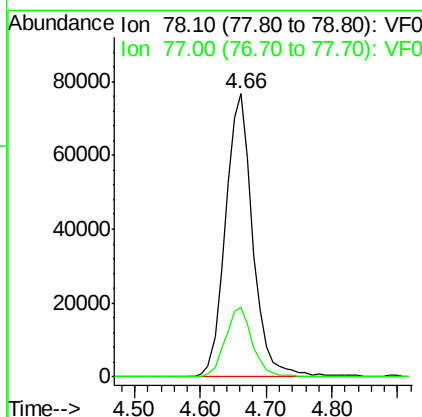
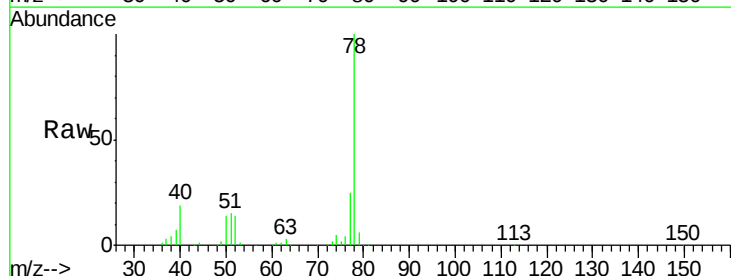
Manual Integrations
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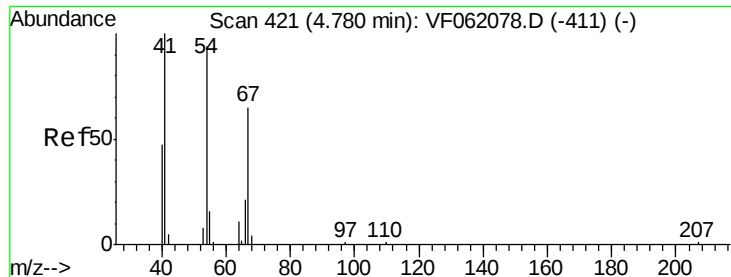
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#40
Benzene
Concen: 20.772 ug/l
RT: 4.66 min Scan# 409
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.7	19.8	29.6	





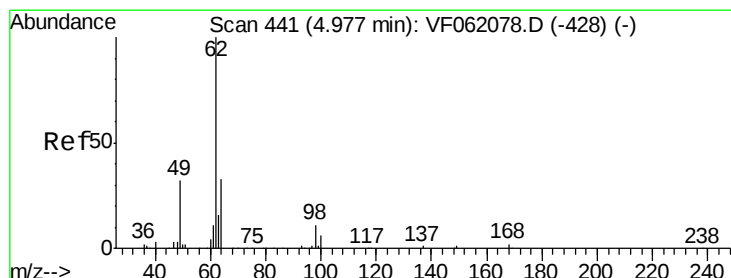
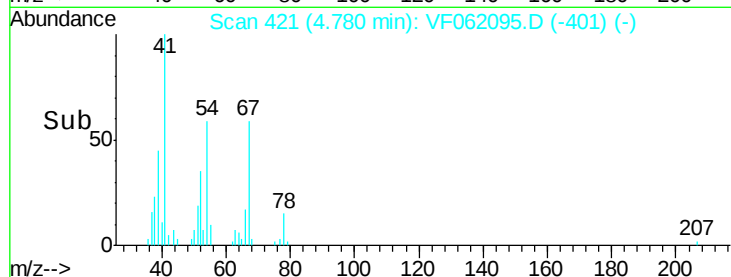
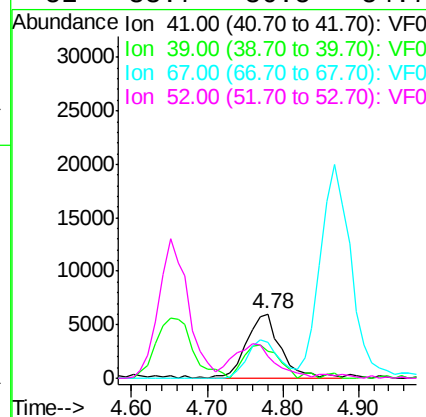
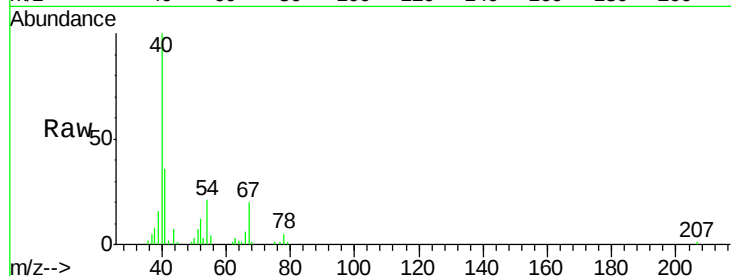
#41
Methacrylonitrile
Concen: 20.492 ug/l
RT: 4.78 min Scan# 421
Delta R.T. -0.00 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	41	Resp	18983
Ion Ratio	Lower	Upper	
41	100		
39	42.8	43.5	65.3#
67	56.2	51.6	77.4
52	33.7	36.5	54.7#

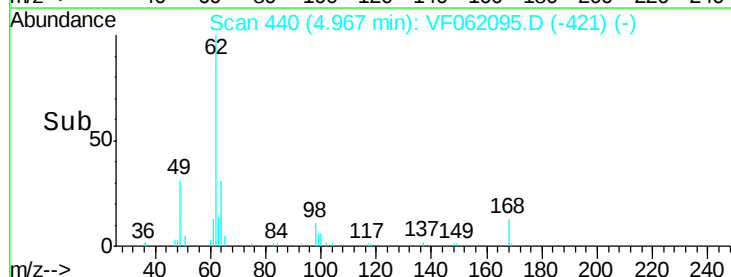
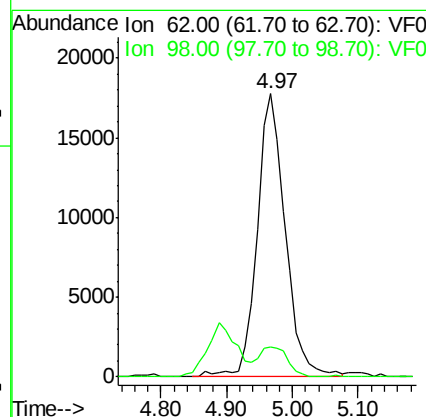
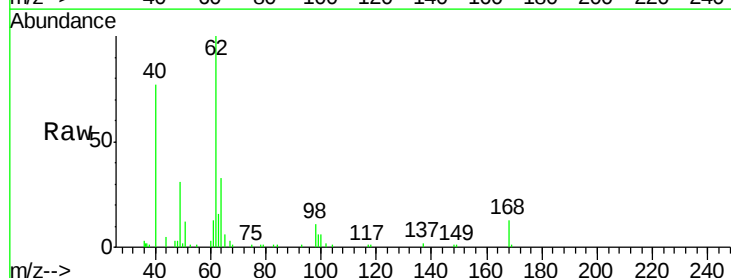
Manual Integrations
APPROVED

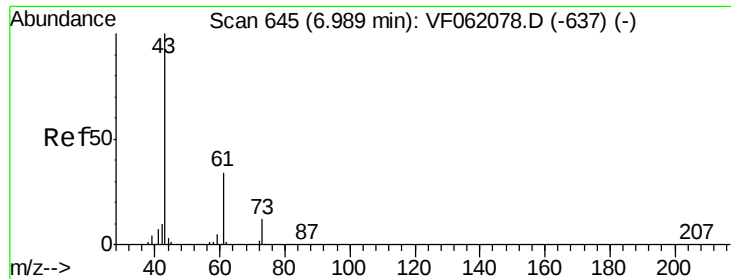
MMDadoda
3/29/2019 10:25:22 AM



#42
1,2-Dichloroethane
Concen: 20.975 ug/l
RT: 4.97 min Scan# 440
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	62	Resp	53268
Ion Ratio	Lower	Upper	
62	100		
98	10.6	0.0	23.2





#43

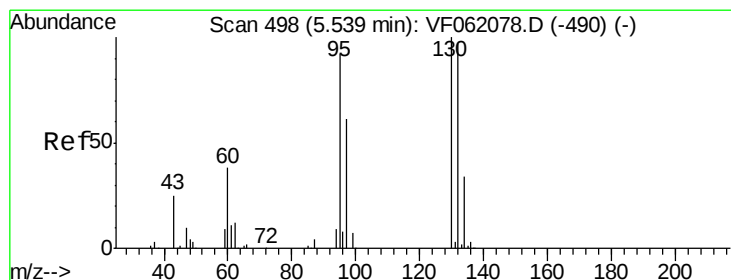
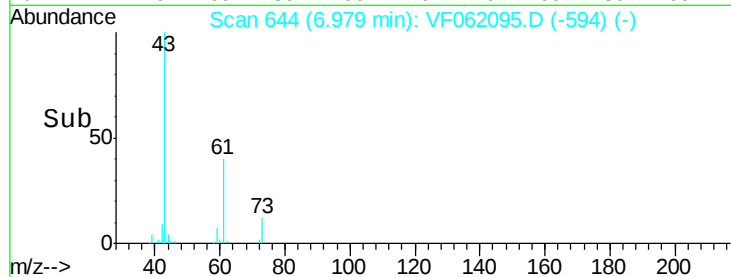
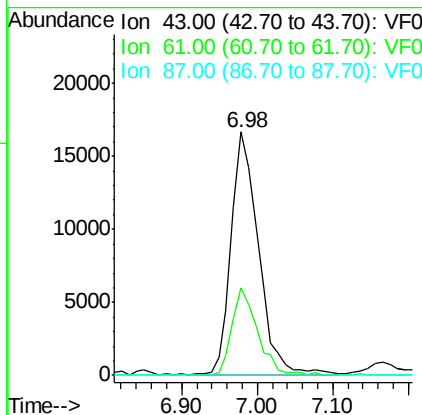
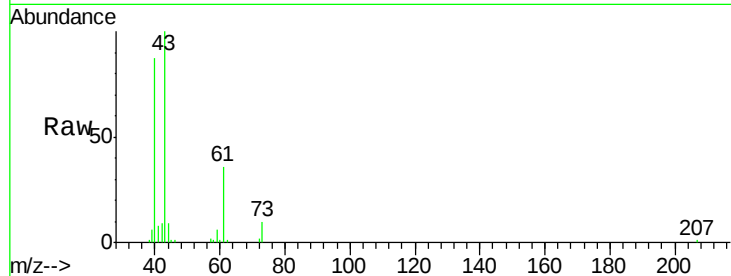
Isopropyl Acetate
 Concen: 19.804 ug/l
 RT: 6.98 min Scan# 644
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	35.7	27.0	40.4
87	0.0	0.4	0.6

Manual Integrations
 APPROVED

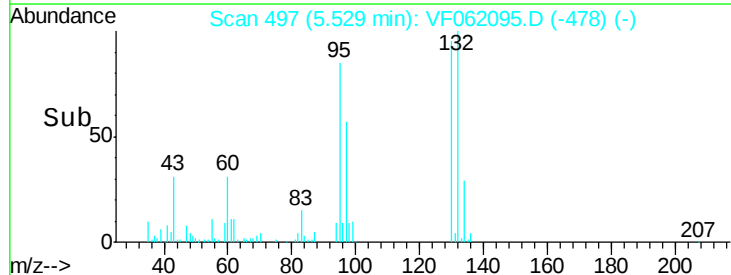
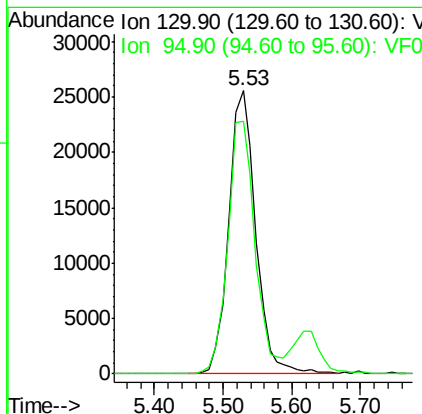
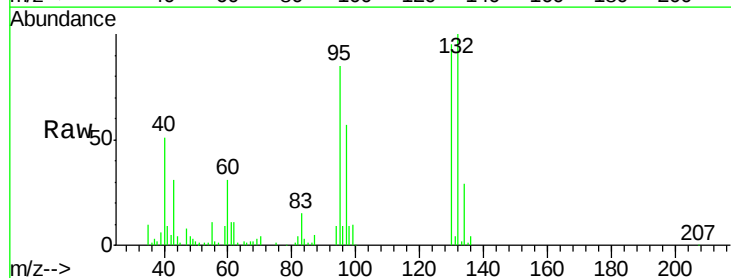
MMDadoda
 3/29/2019 10:25:22 AM

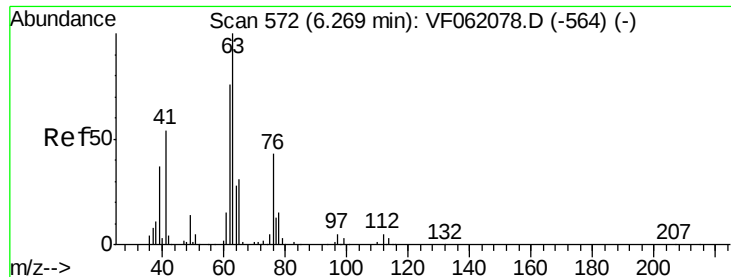


#44

Trichloroethene
 Concen: 21.148 ug/l
 RT: 5.53 min Scan# 497
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.1	0.0	183.4





#45

1,2-Dichloropropane

Concen: 20.690 ug/l

RT: 6.26 min Scan# 571

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 63 Resp: 52996

Ion Ratio Lower Upper

63 100

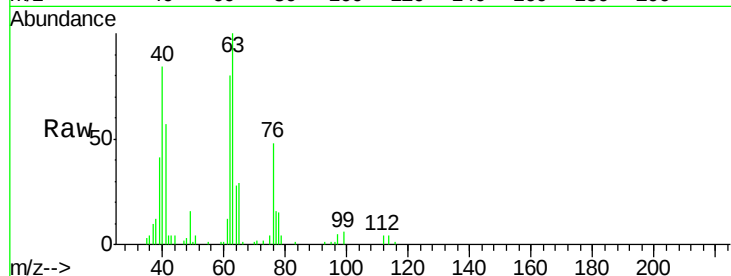
65 28.8 24.9 37.3

Manual Integrations

APPROVED

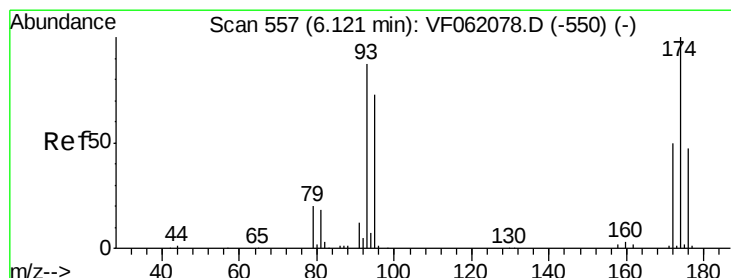
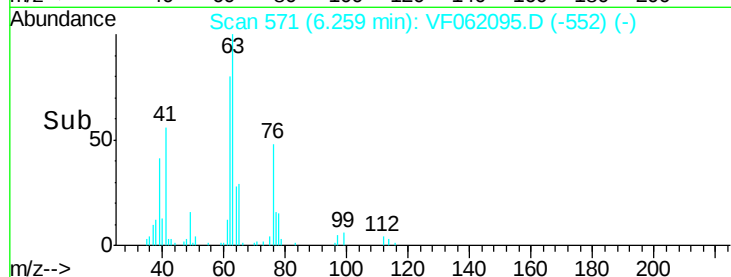
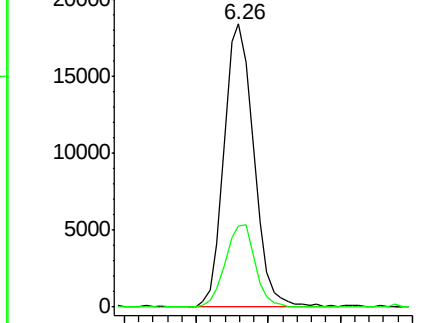
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0



#46

Dibromomethane

Concen: 19.857 ug/l

RT: 6.11 min Scan# 556

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

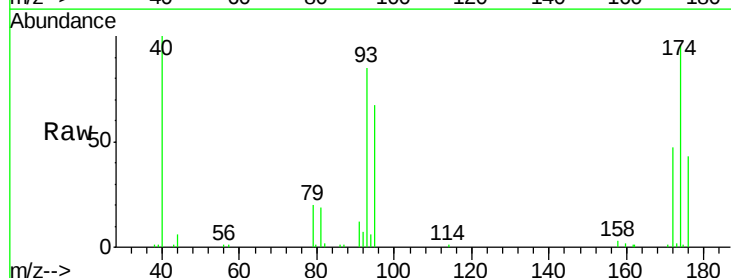
Tgt Ion: 93 Resp: 31099

Ion Ratio Lower Upper

93 100

95 78.1 67.4 101.2

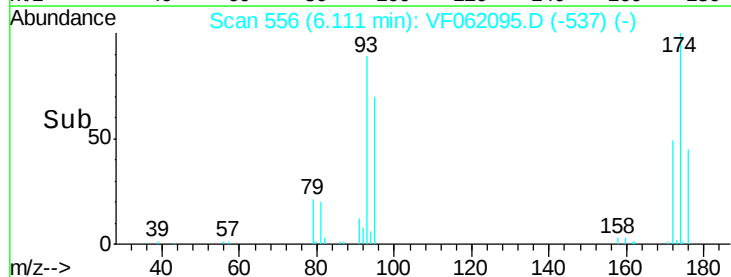
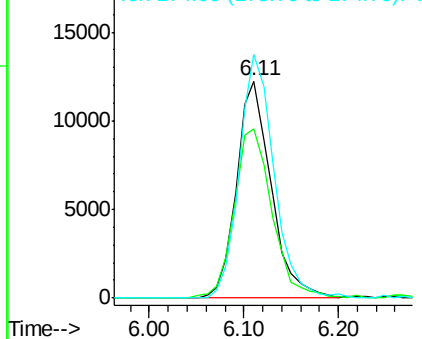
174 112.0 92.0 138.0

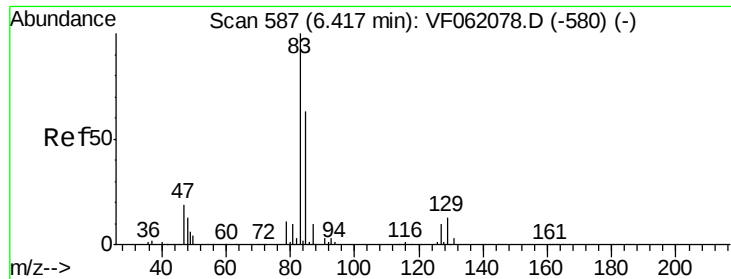


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 19.988 ug/l

RT: 6.41 min Scan# 586

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

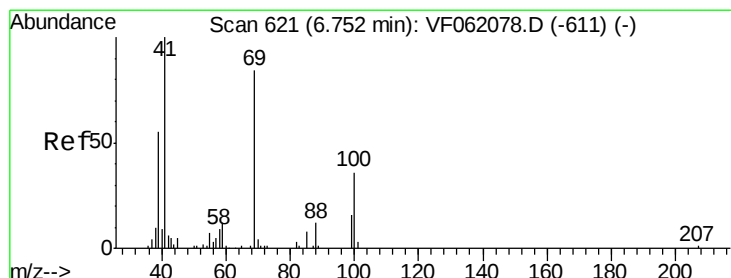
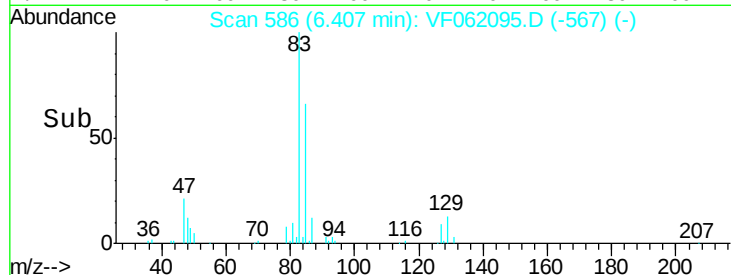
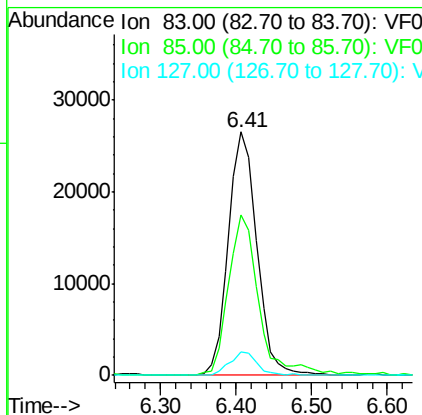
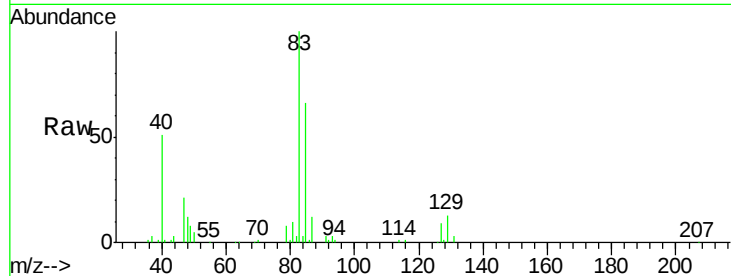
ClientSampleId :

VF0322SBS02

Tot Ion:	83	Resp:	69340
Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.7	76.1
127	9.4	7.8	11.6

Manual Integrations
APPROVED

MMDadoda
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#48

Methyl methacrylate

Concen: 20.105 ug/l

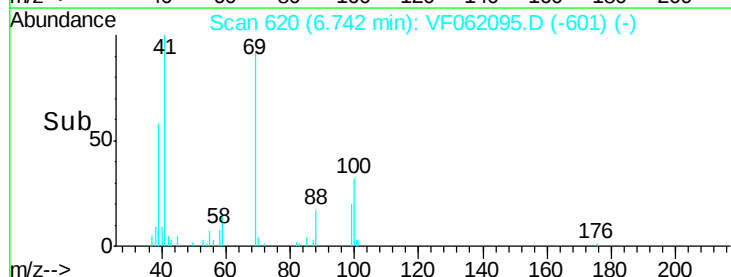
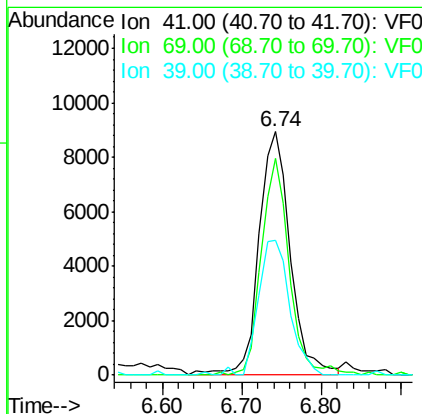
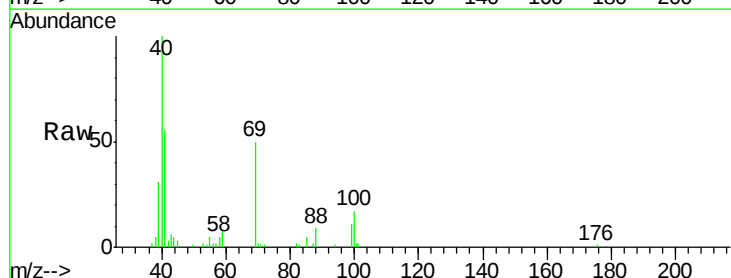
RT: 6.74 min Scan# 620

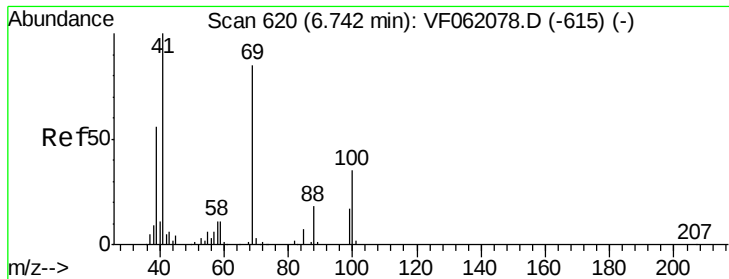
Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Tgt Ion:	41	Resp:	24271
Ion	Ratio	Lower	Upper
41	100		
69	89.0	66.6	100.0
39	55.4	43.6	65.4





#49

1,4-Dioxane

Concen: 344.946 ug/l

RT: 6.74 min Scan# 620

Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

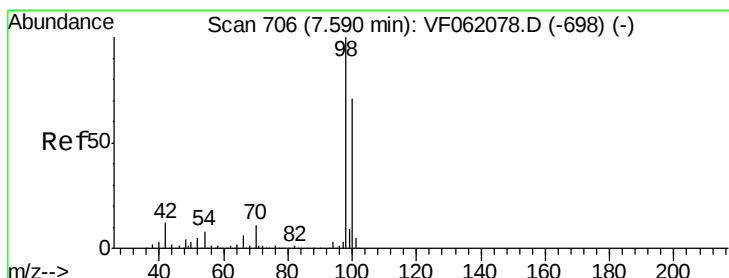
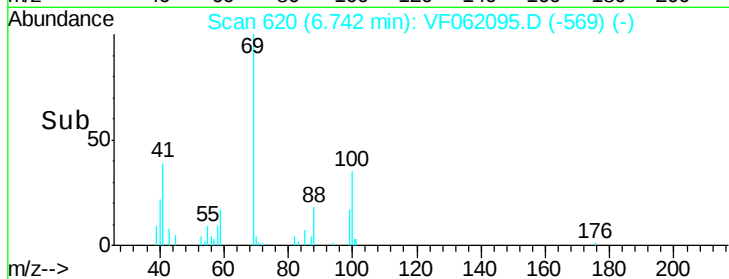
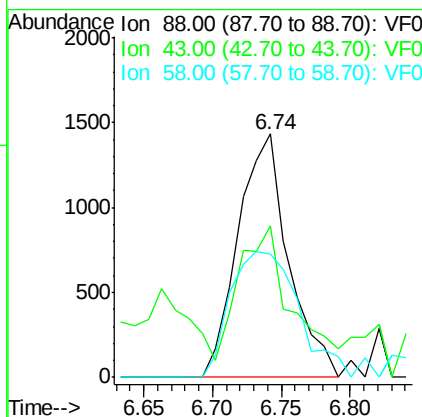
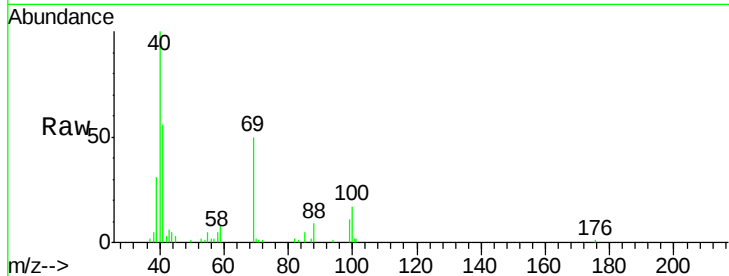
ClientSampleId :

VF0322SBS02

Tot Ion	Ratio	Resp	Lower	Upper
88	100	3654		
43	62.3		35.0	52.4#
58	50.6		49.9	74.9

Manual Integrations
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#50

Toluene-d8

Concen: 50.950 ug/l

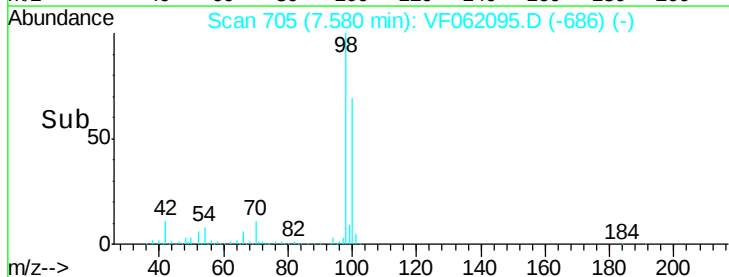
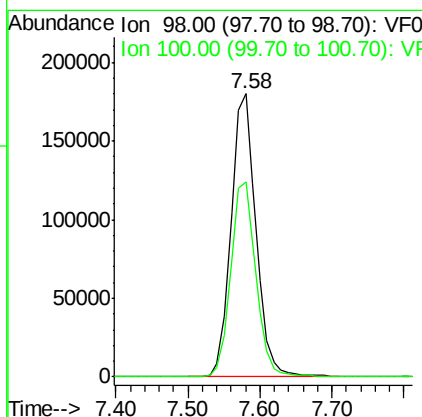
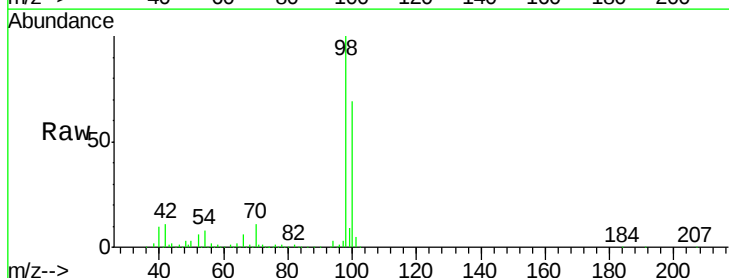
RT: 7.58 min Scan# 705

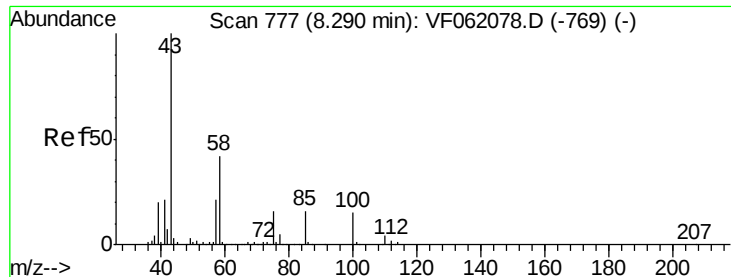
Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	432699		
100	69.1		57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 102.418 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 43 Resp: 145344

Ion Ratio Lower Upper

43 100

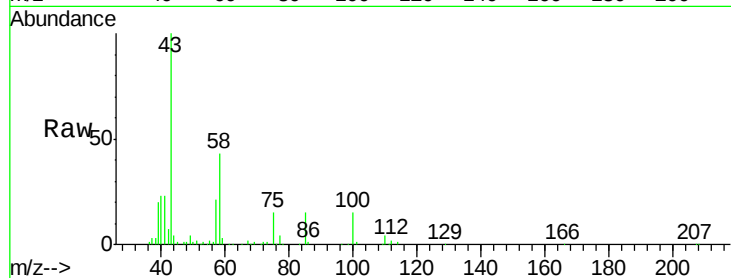
58 43.5 33.8 50.8

Manual Integrations

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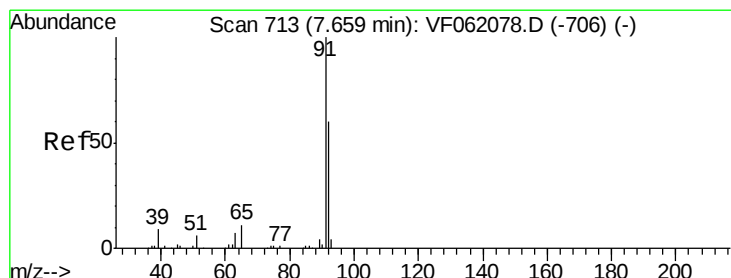
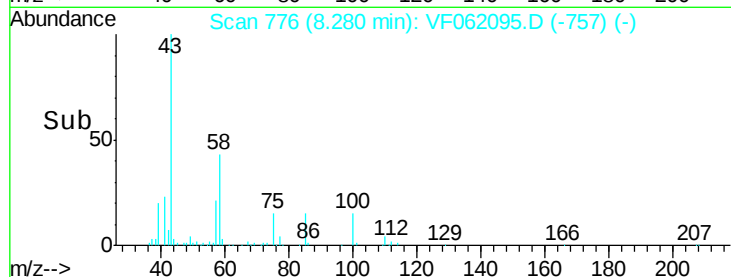
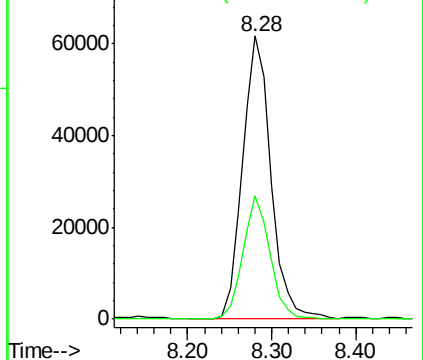
MMDadoda

3/29/2019 10:25:22 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.897 ug/l

RT: 7.65 min Scan# 712

Delta R.T. -0.01 min

Lab File: VF062095.D

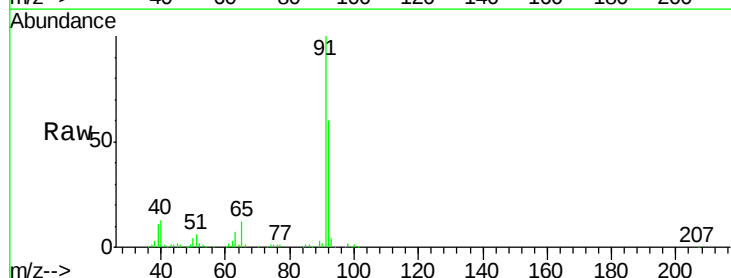
Acq: 22 Mar 2019 23:36

Tgt Ion: 92 Resp: 129990

Ion Ratio Lower Upper

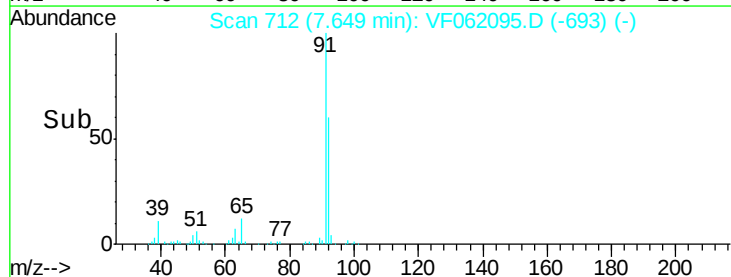
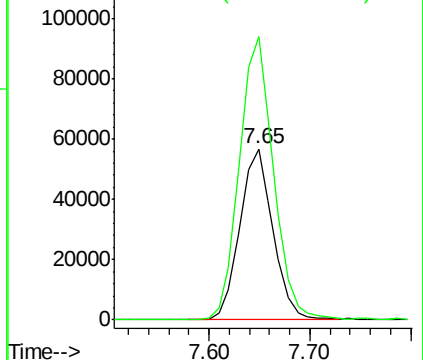
92 100

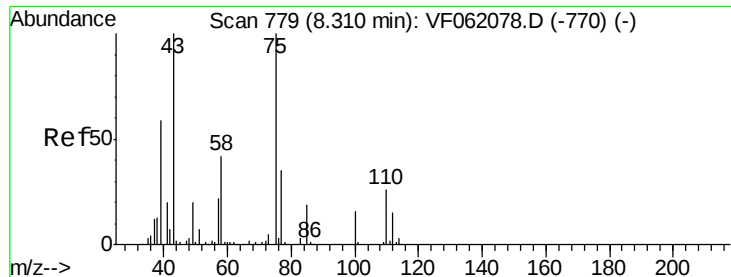
91 165.8 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 20.646 ug/l

RT: 8.30 min Scan# 778

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 75 Resp: 56226

Ion Ratio Lower Upper

75 100

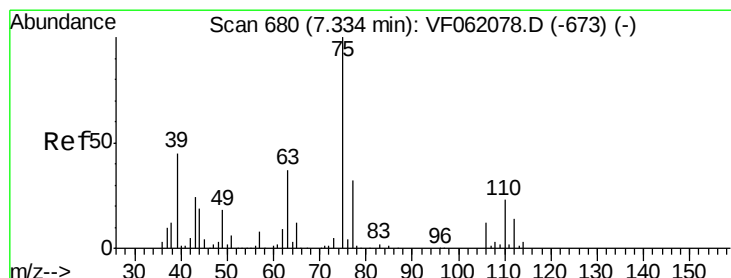
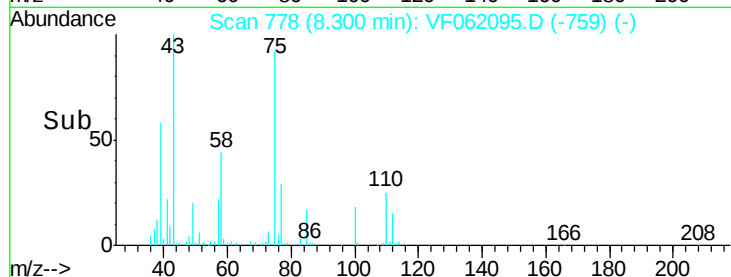
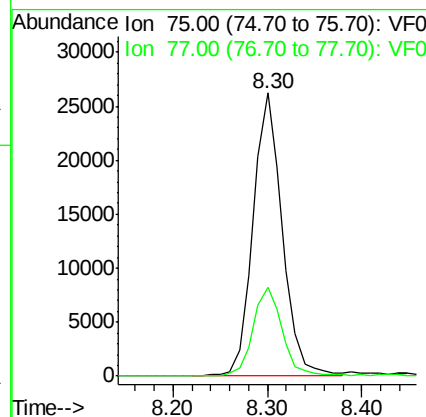
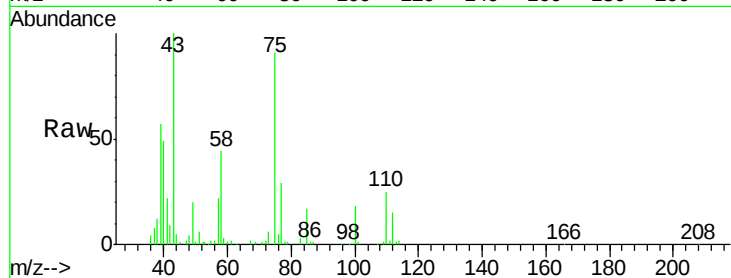
77 31.4 28.0 42.0

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 19.587 ug/l

RT: 7.32 min Scan# 679

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

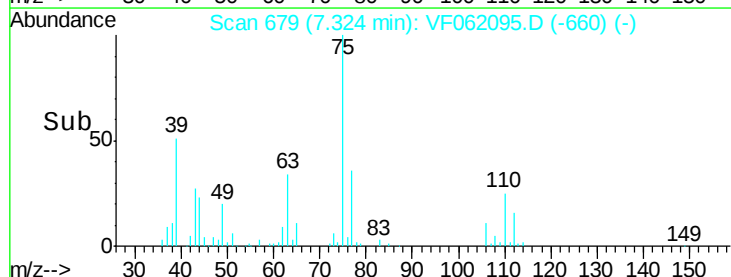
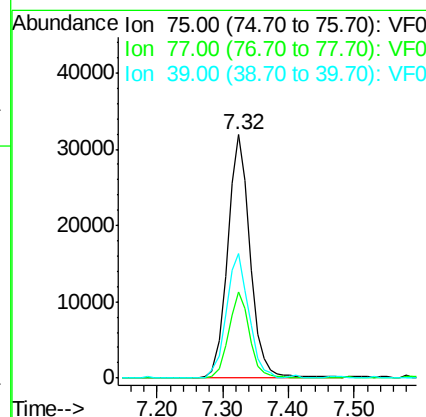
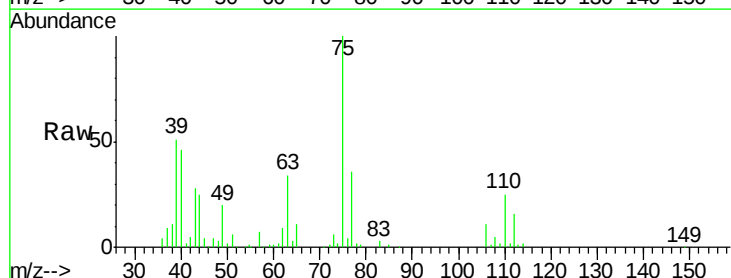
Tgt Ion: 75 Resp: 76321

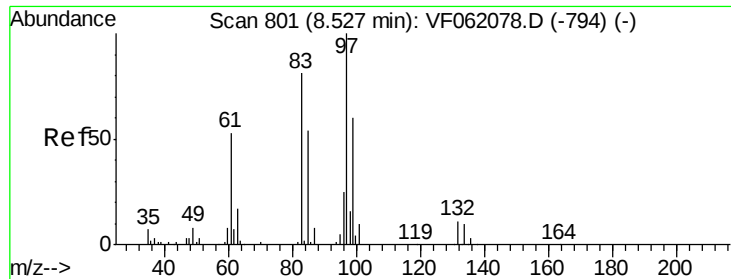
Ion Ratio Lower Upper

75 100

77 35.5 25.8 38.6

39 51.0 35.9 53.9





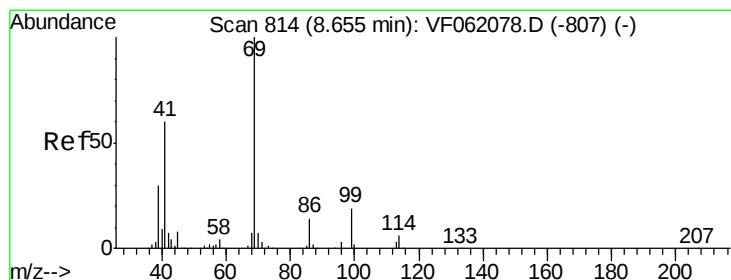
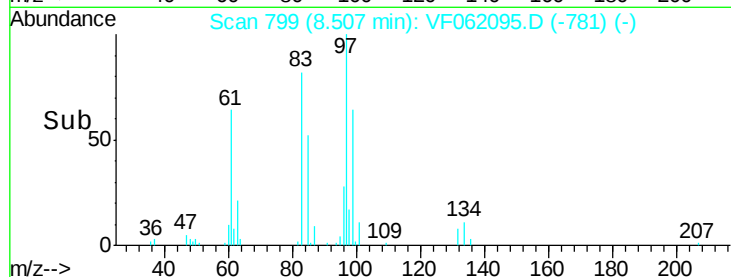
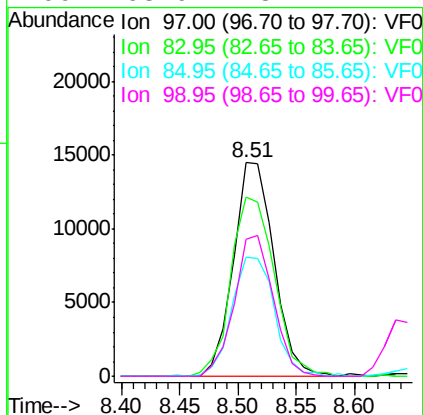
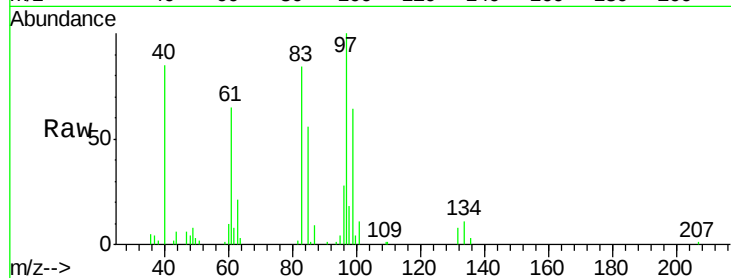
#55
1,1,2-Trichloroethane
Concen: 19.816 ug/l
RT: 8.51 min Scan# 799
Delta R.T. -0.02 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion:	97	Resp:	35012
Ion	Ratio	Lower	Upper
97	100		
83	83.9	64.6	97.0
85	55.8	43.6	65.4
99	63.9	48.2	72.2

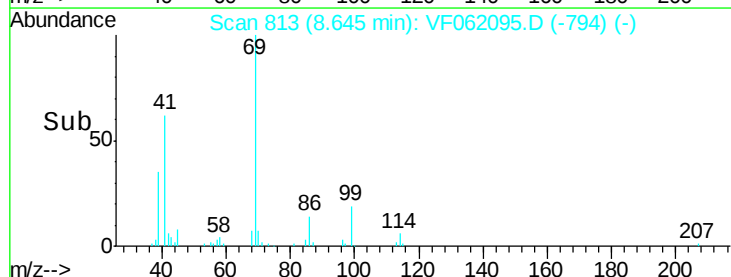
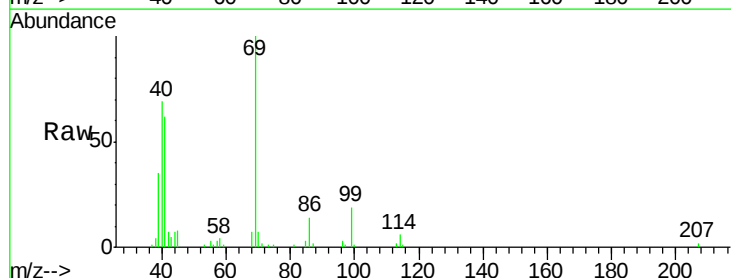
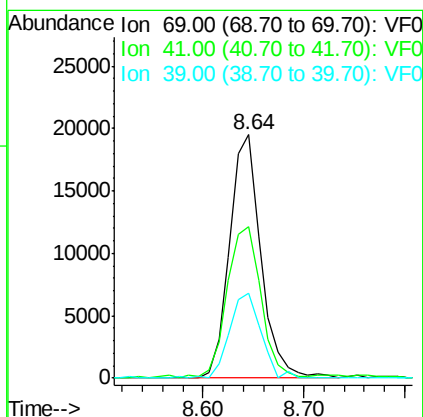
Manual Integrations
APPROVED

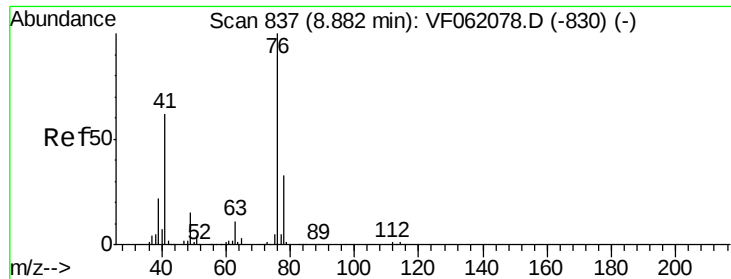
MMDadoda
3/29/2019 10:25:22 AM



#56
Ethyl methacrylate
Concen: 19.956 ug/l
RT: 8.64 min Scan# 813
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion:	69	Resp:	42051
Ion	Ratio	Lower	Upper
69	100		
41	62.4	48.2	72.2
39	34.7	24.0	36.0





#57

1,3-Dichloropropane

Concen: 20.665 ug/l

RT: 8.87 min Scan# 836

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 76 Resp: 60599

Ion Ratio Lower Upper

76 100

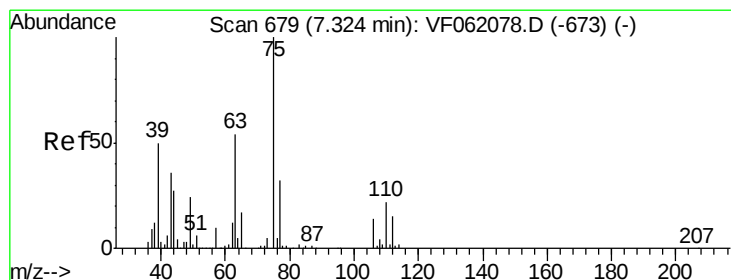
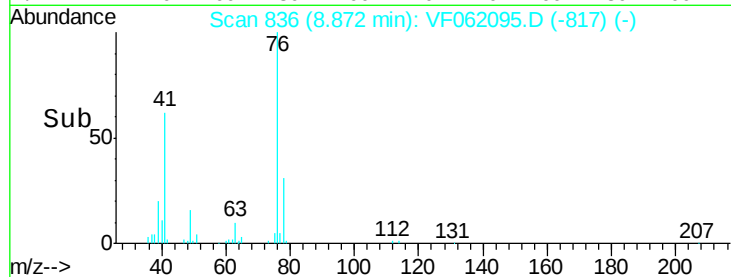
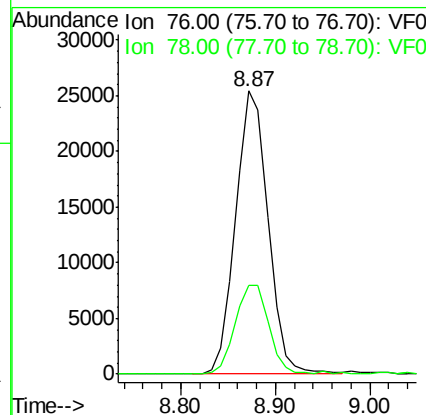
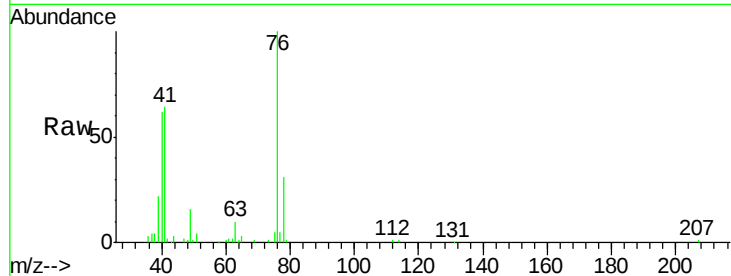
78 31.3 26.6 39.8

Manual Integrations

APPROVED

MMDadoda

3/29/2019 10:25:22 AM



#58

2-Chloroethyl Vinyl ether

Concen: 94.702 ug/l

RT: 7.31 min Scan# 678

Delta R.T. -0.01 min

Lab File: VF062095.D

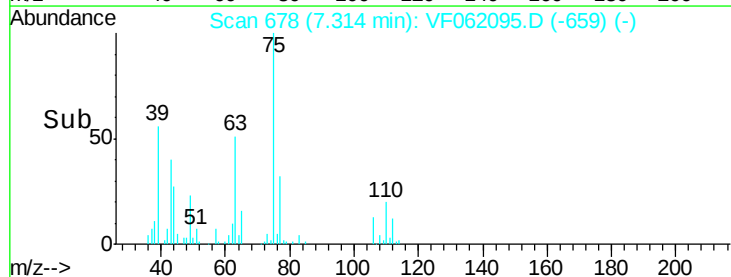
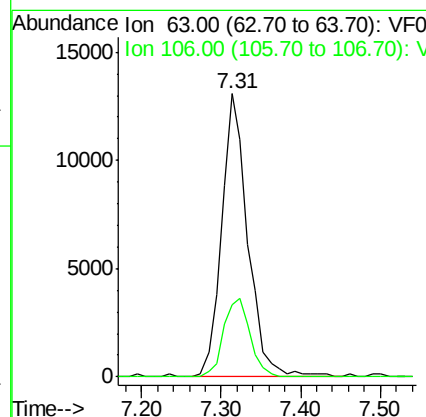
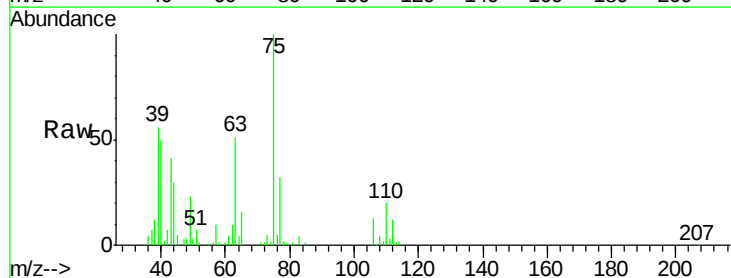
Acq: 22 Mar 2019 23:36

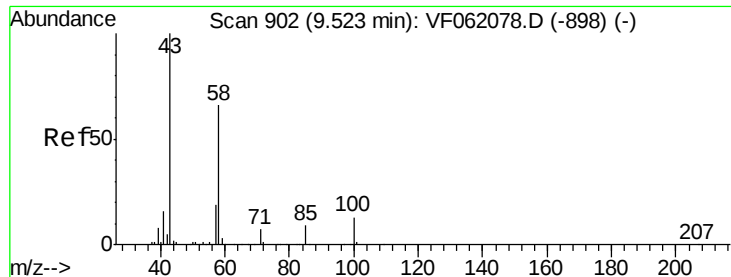
Tgt Ion: 63 Resp: 30281

Ion Ratio Lower Upper

63 100

106 25.5 21.5 32.3





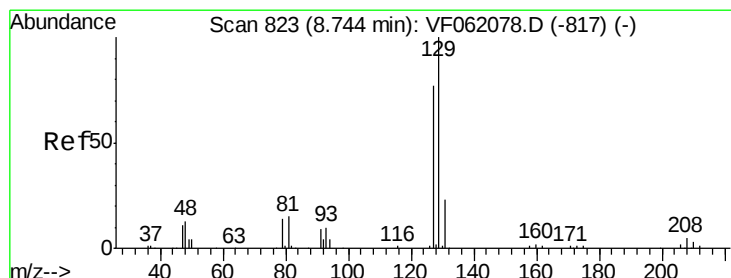
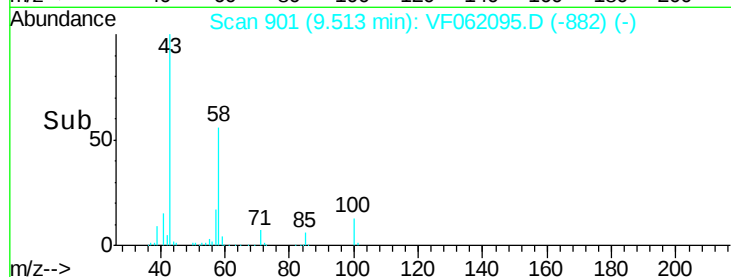
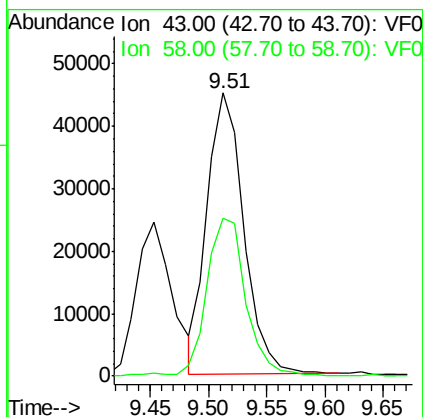
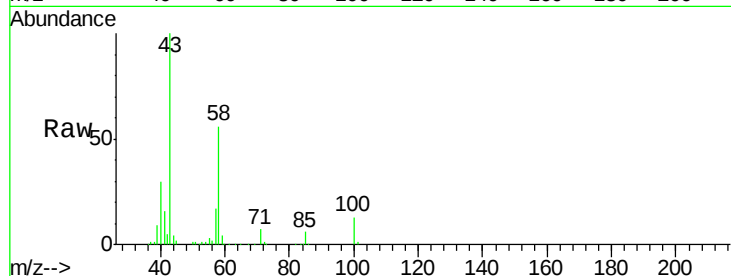
#59
2-Hexanone
Concen: 94.952 ug/l
RT: 9.51 min Scan# 901
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion: 43 Resp: 98758
Ion Ratio Lower Upper
43 100
58 55.6 28.8 86.4

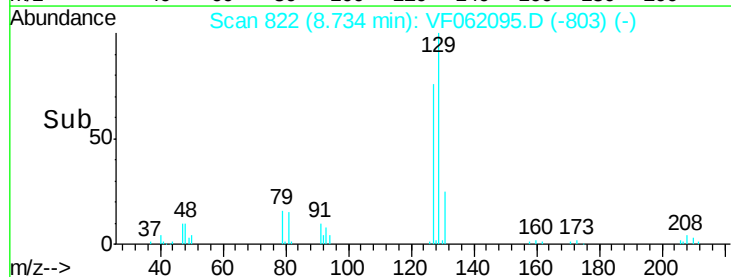
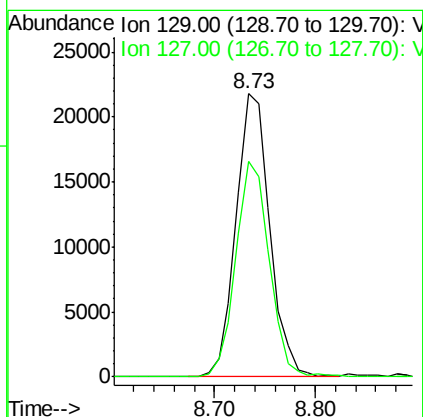
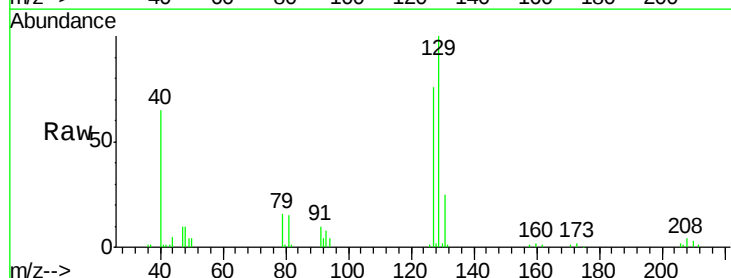
Manual Integrations
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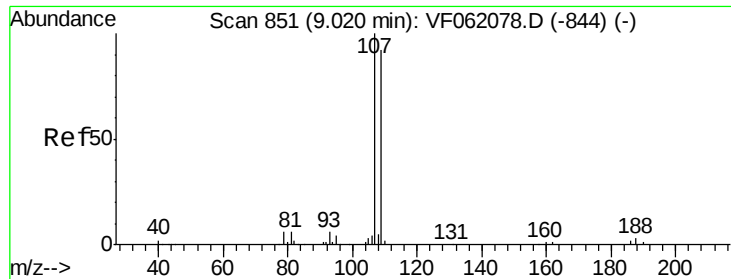
MMDadoda
3/29/2019 10:25:22 AM



#60
Dibromochloromethane
Concen: 20.675 ug/l
RT: 8.73 min Scan# 822
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion: 129 Resp: 50782
Ion Ratio Lower Upper
129 100
127 76.3 38.7 116.1





#61

1,2-Dibromoethane

Concen: 20.166 ug/l

RT: 9.01 min Scan# 850

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion:107 Resp: 38013

Ion Ratio Lower Upper

107 100

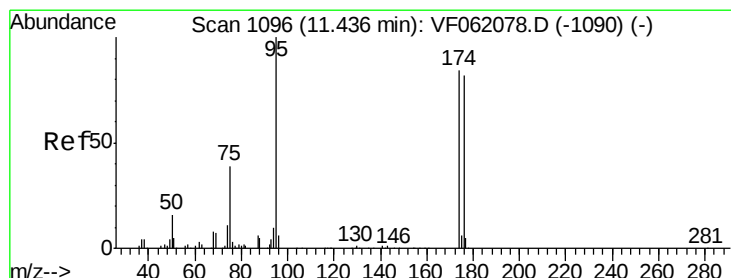
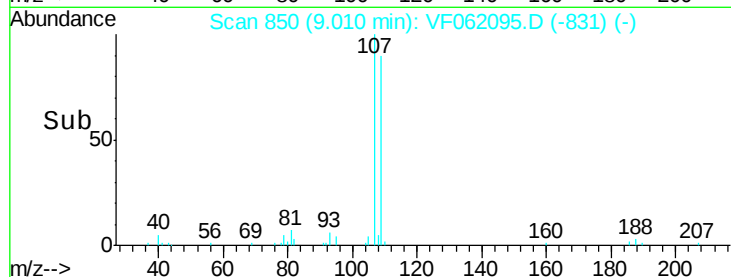
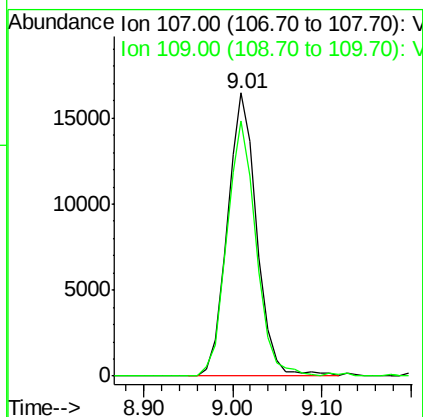
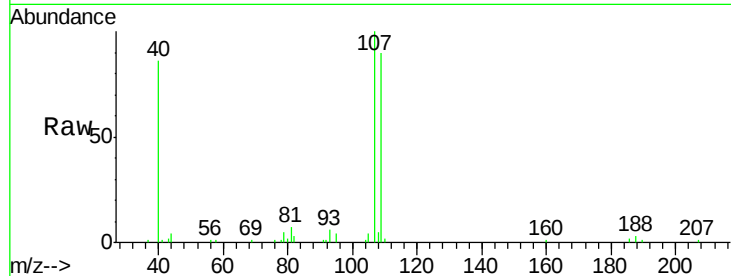
109 90.1 73.4 110.0

Manual Integrations

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MMDadoda

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#62

4-Bromofluorobenzene

Concen: 52.752 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

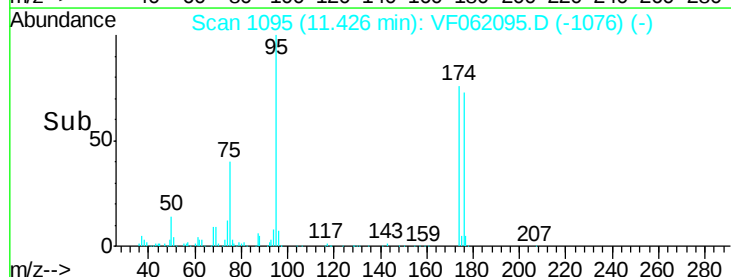
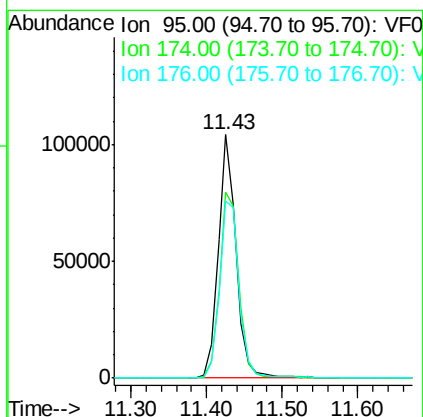
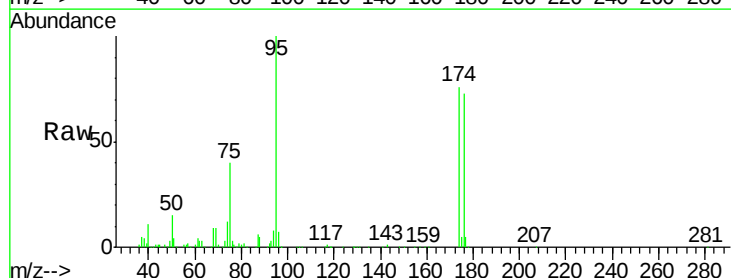
Tgt Ion: 95 Resp: 172955

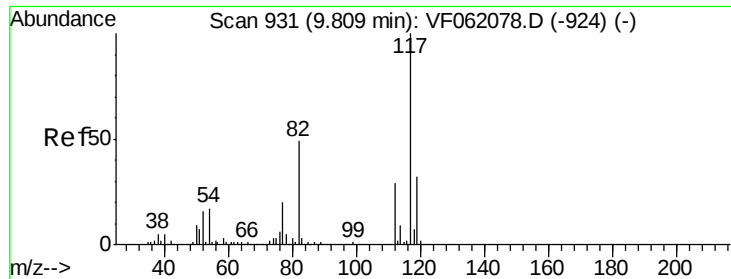
Ion Ratio Lower Upper

95 100

174 76.4 0.0 168.2

176 72.9 0.0 164.2





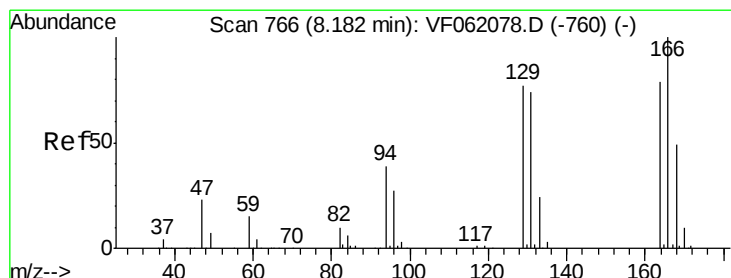
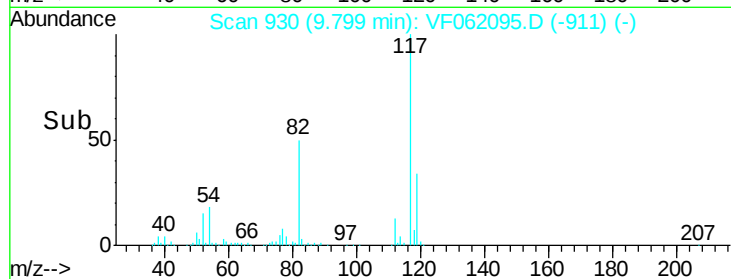
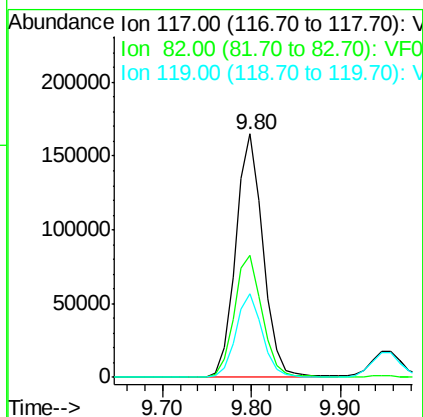
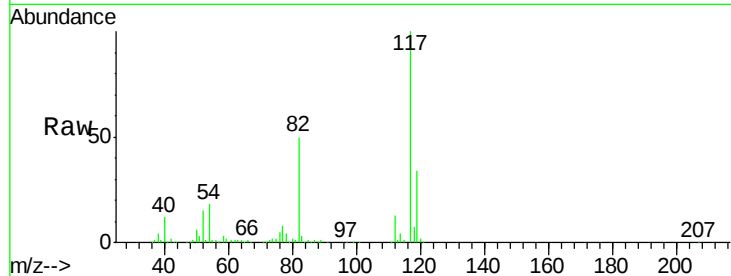
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 930
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	353462		
82	50.3		39.2	58.8
119	34.2		25.4	38.2

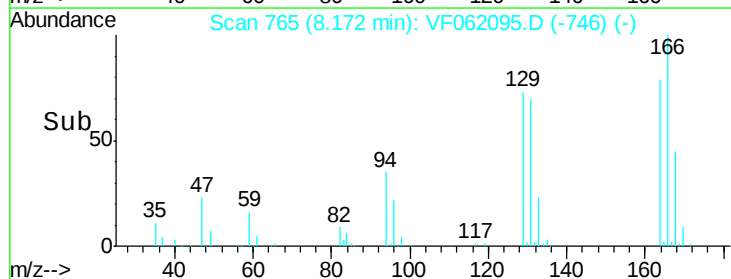
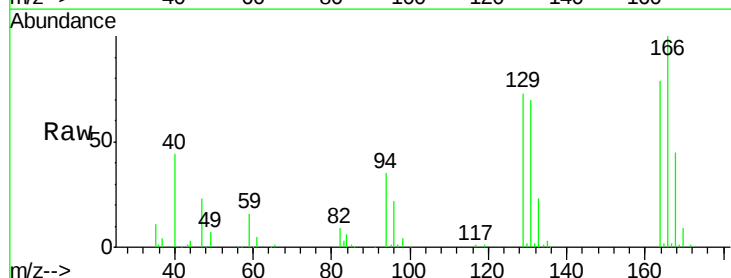
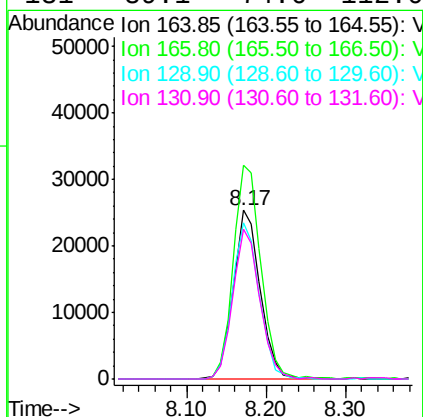
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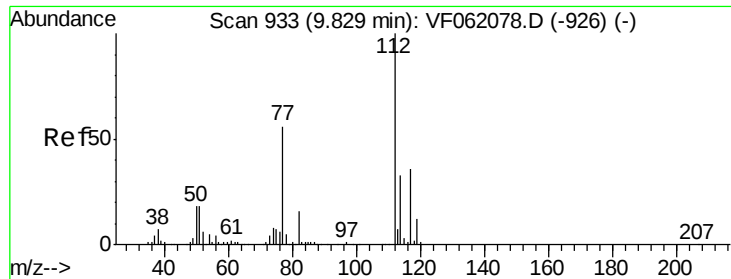
MMDadoda
3/29/2019 10:25:22 AM



#64
Tetrachloroethene
Concen: 21.946 ug/l
RT: 8.17 min Scan# 765
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	59930		
166	126.6		100.9	151.3
129	92.2		77.9	116.9
131	89.1		74.6	112.0





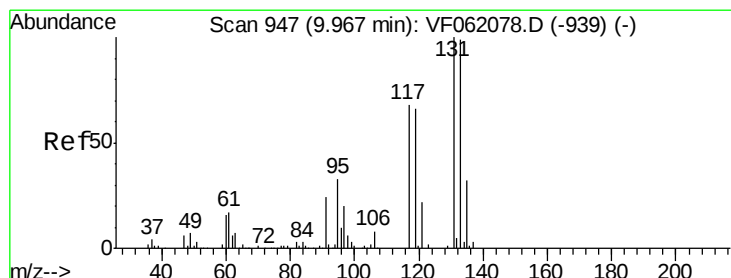
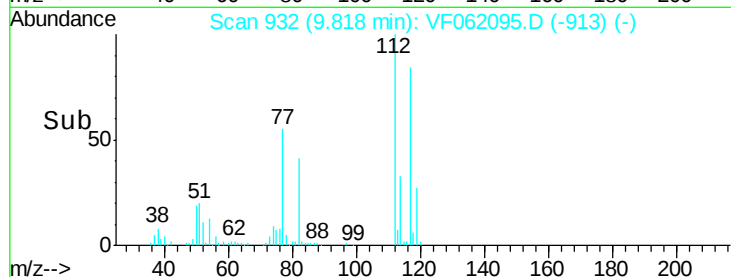
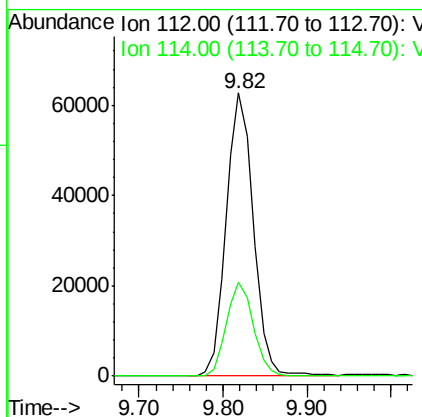
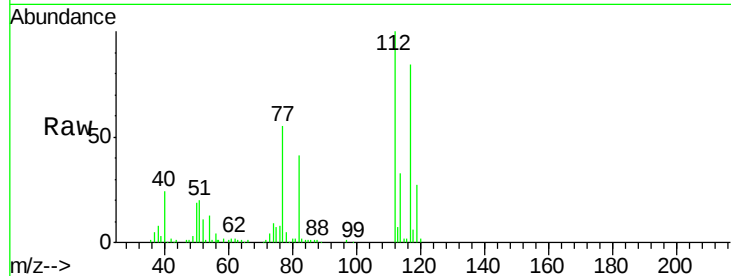
#65
Chlorobenzene
Concen: 21.324 ug/l
RT: 9.82 min Scan# 932
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion:112 Resp: 141024
Ion Ratio Lower Upper
112 100
114 33.2 26.0 39.0

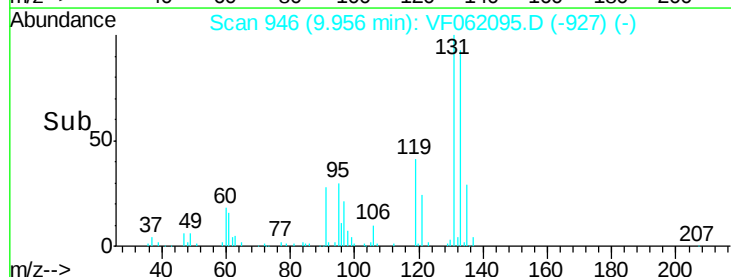
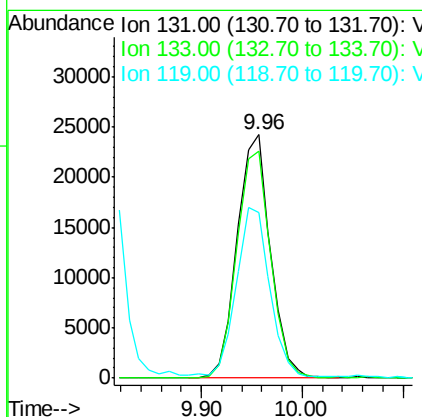
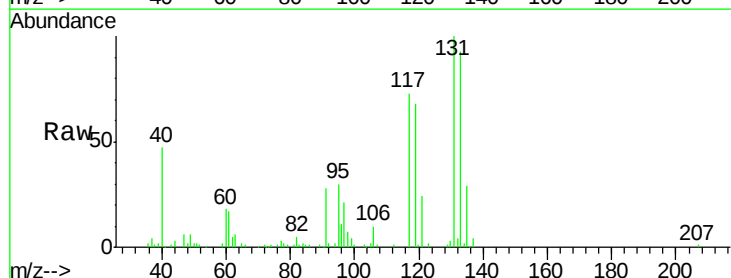
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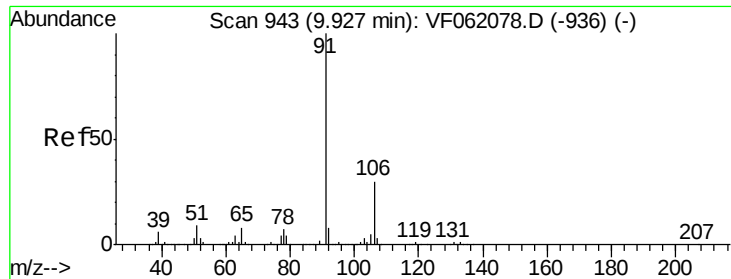
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.966 ug/l
RT: 9.96 min Scan# 946
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion:131 Resp: 55696
Ion Ratio Lower Upper
131 100
133 93.1 49.3 147.8
119 67.8 33.5 100.4





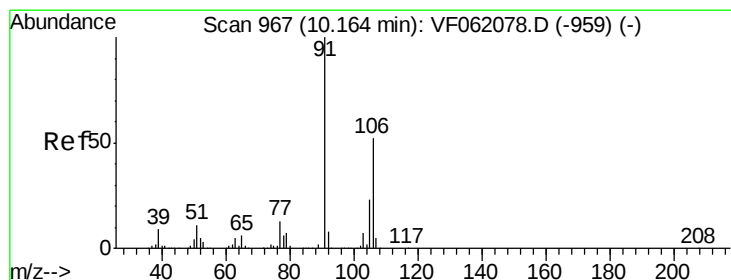
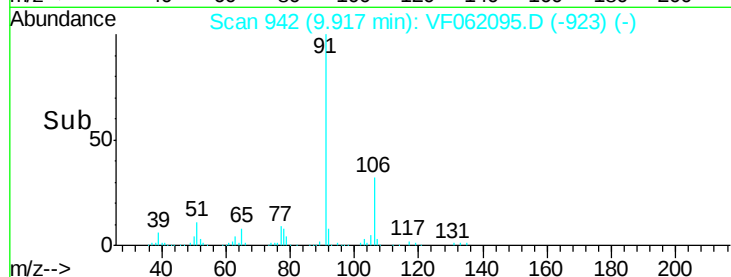
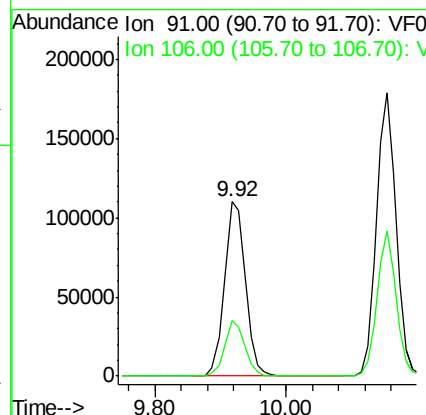
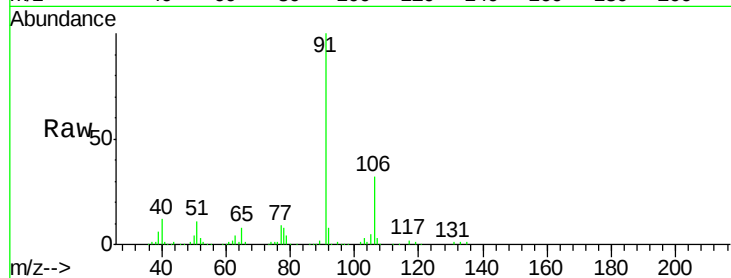
#67
Ethyl Benzene
Concen: 21.450 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion: 91 Resp: 246703
Ion Ratio Lower Upper
91 100
106 31.6 24.0 36.0

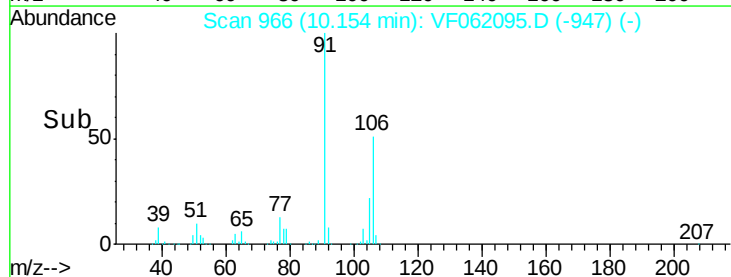
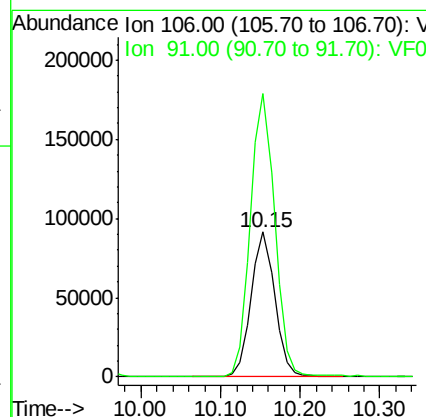
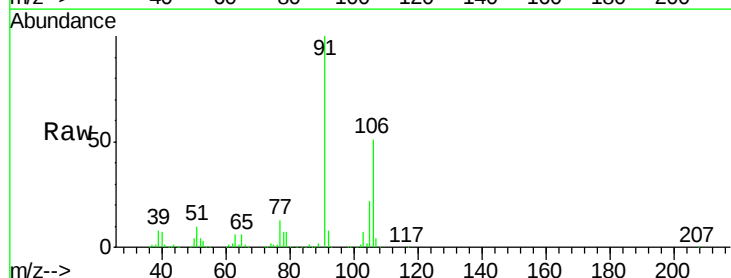
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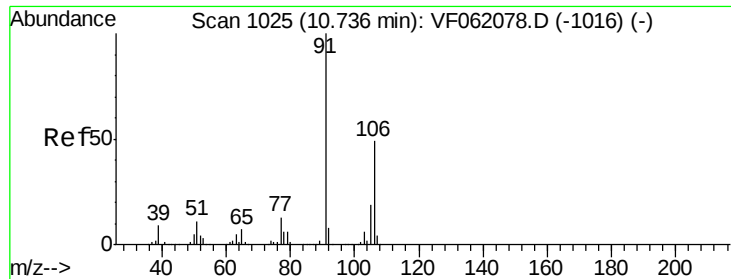
MMDadoda
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#68
m/p-Xylenes
Concen: 43.823 ug/l
RT: 10.15 min Scan# 966
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion: 106 Resp: 188385
Ion Ratio Lower Upper
106 100
91 195.7 154.4 231.6





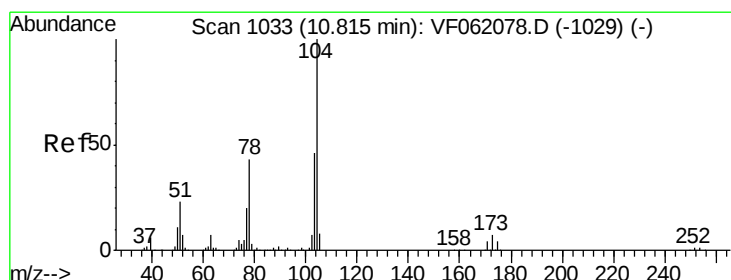
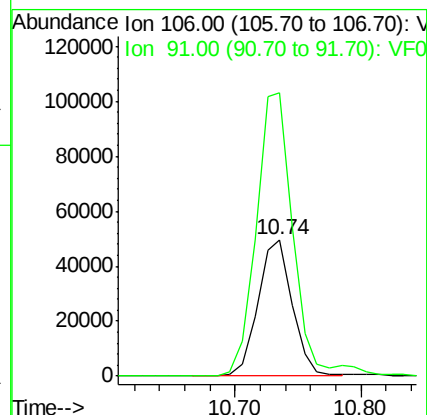
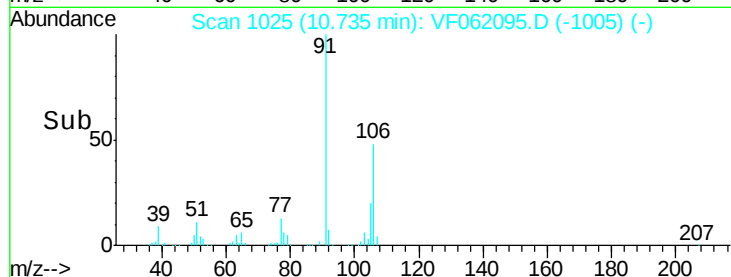
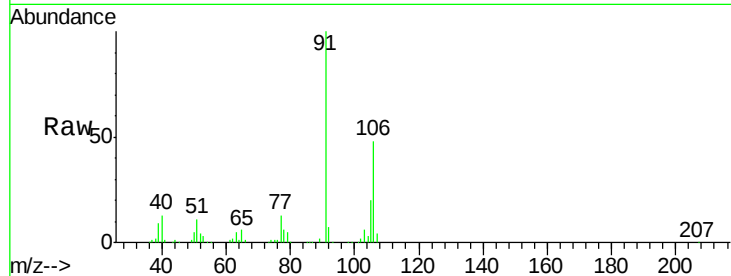
#69
o-Xylene
Concen: 20.794 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion:106 Resp: 93621
Ion Ratio Lower Upper
106 100
91 207.7 102.6 307.8

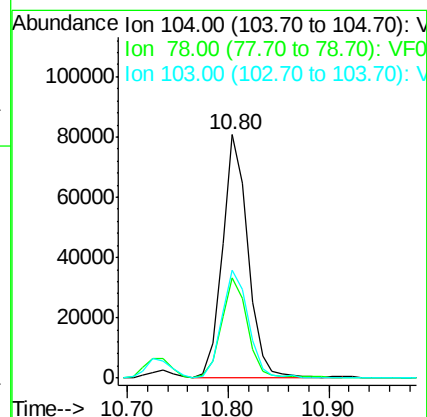
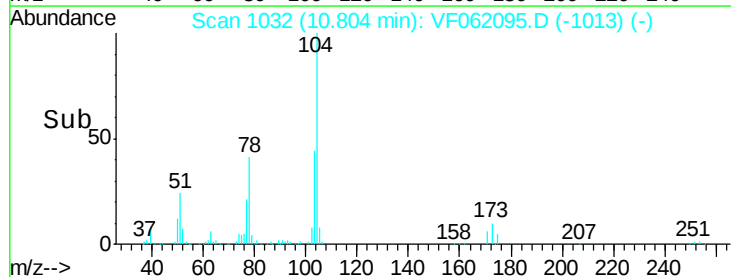
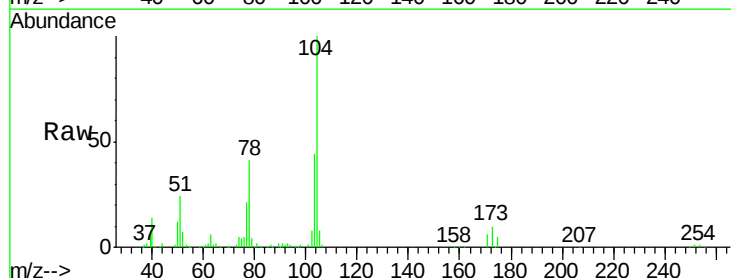
Manual Integrations
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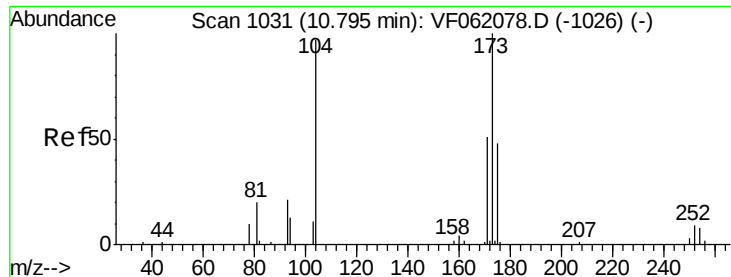
MMDadoda
3/29/2019 10:25:22 AM



#70
Styrene
Concen: 20.925 ug/l
RT: 10.80 min Scan# 1032
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion:104 Resp: 142741
Ion Ratio Lower Upper
104 100
78 41.0 34.3 51.5
103 44.2 36.9 55.3





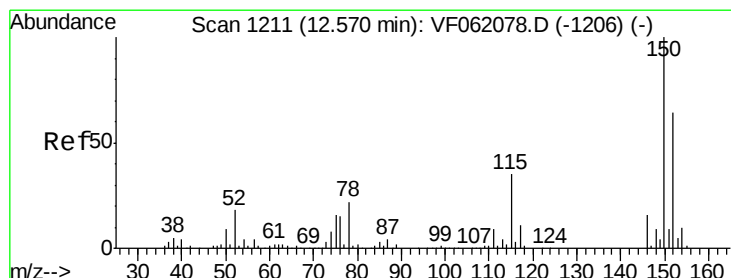
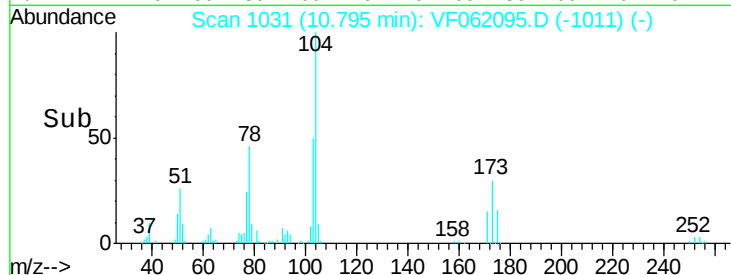
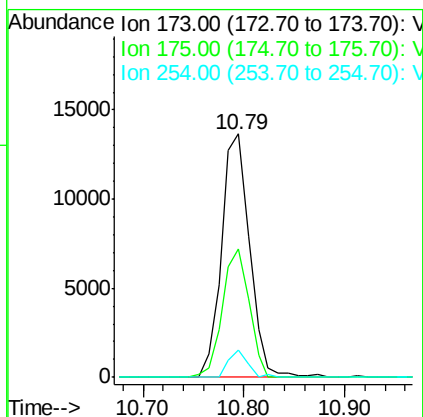
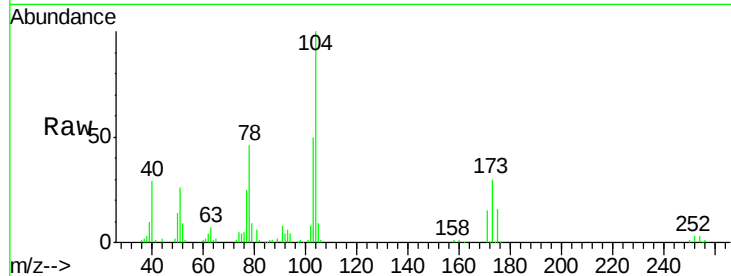
#71
Bromoform
Concen: 19.539 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	52.7	24.1	72.4
254	12.2	6.2	9.4

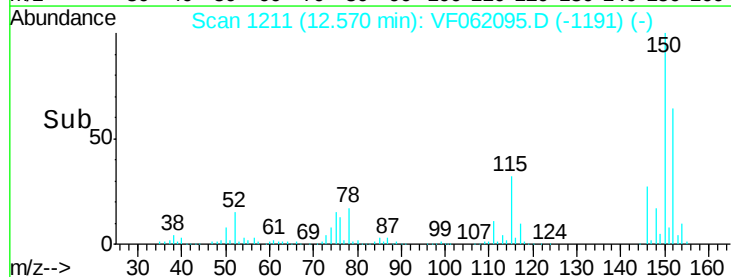
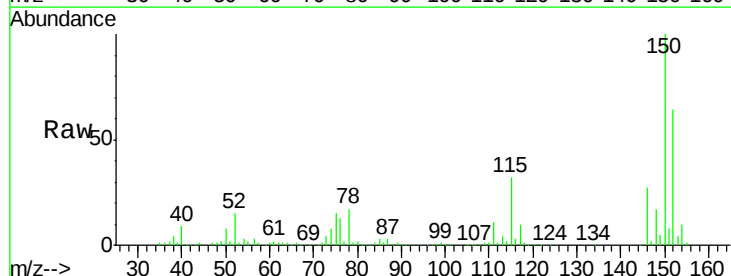
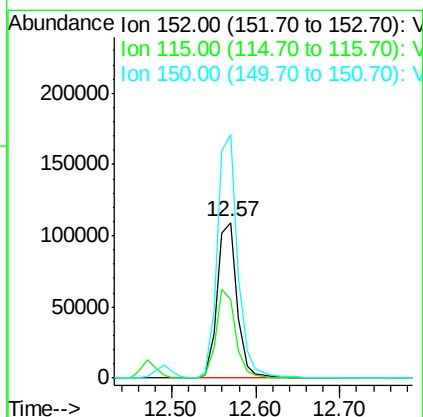
Manual Integrations
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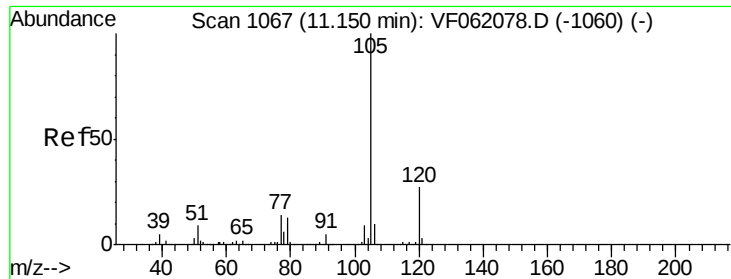
MMDadoda
3/29/2019 10:25:22 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	50.7	27.7	83.1
150	156.7	0.0	313.2





#73

Isopropylbenzene

Concen: 22.393 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion:105 Resp: 283213

Ion Ratio Lower Upper

105 100

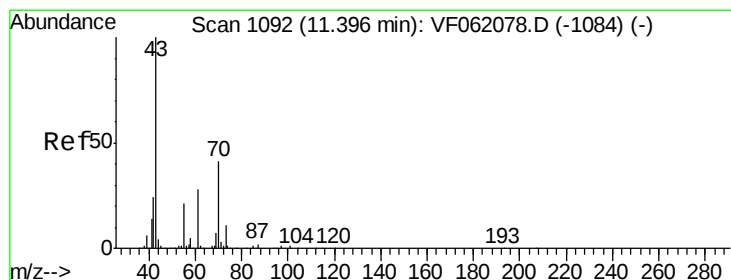
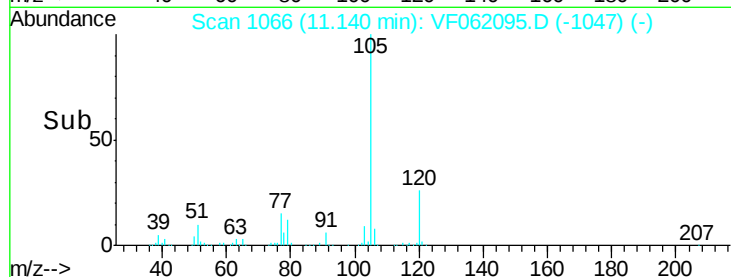
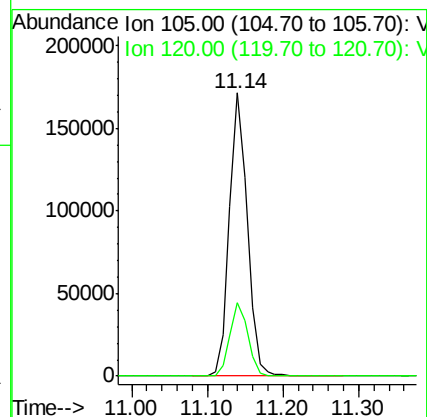
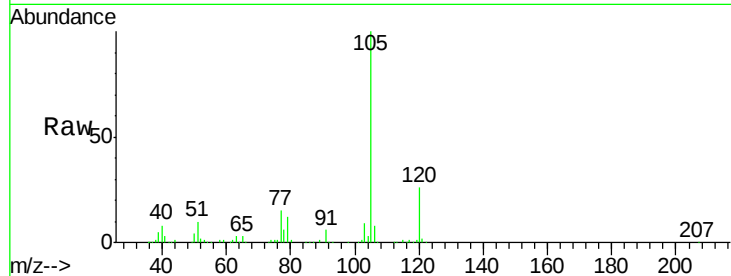
120 26.0 13.8 41.3

Manual Integrations

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#74

N-ethyl acetate

Concen: 21.961 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Tgt Ion: 43 Resp: 66180

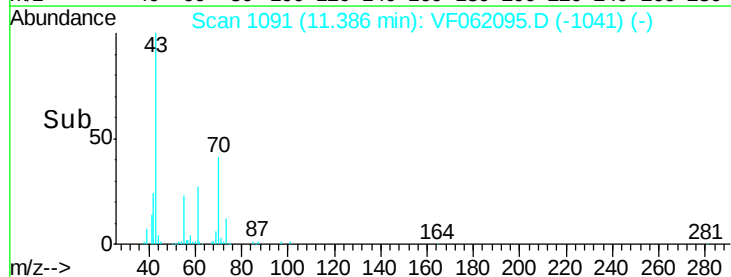
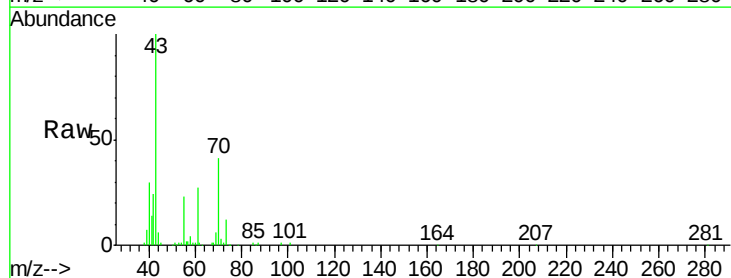
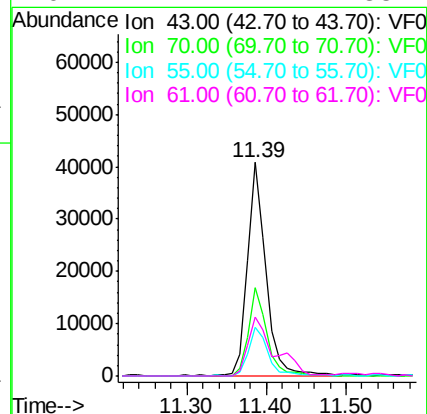
Ion Ratio Lower Upper

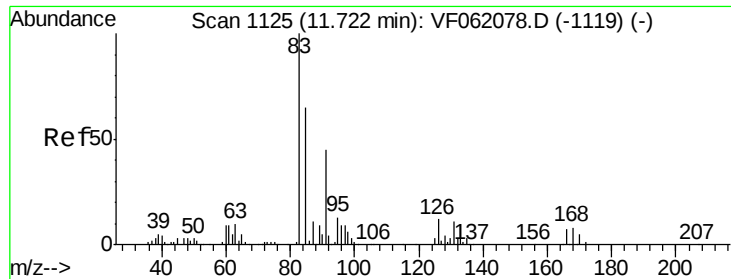
43 100

70 41.3 32.9 49.3

55 22.5 17.1 25.7

61 27.4 22.2 33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 21.071 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

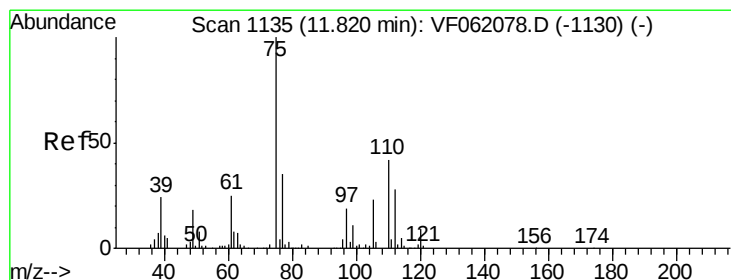
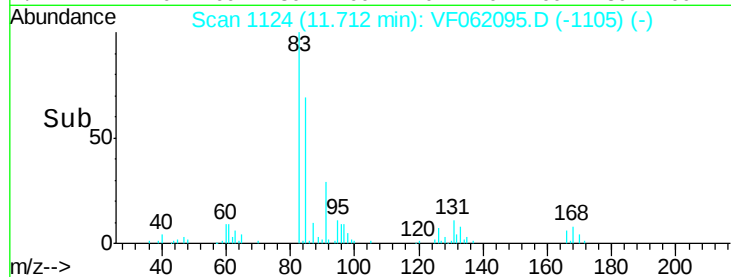
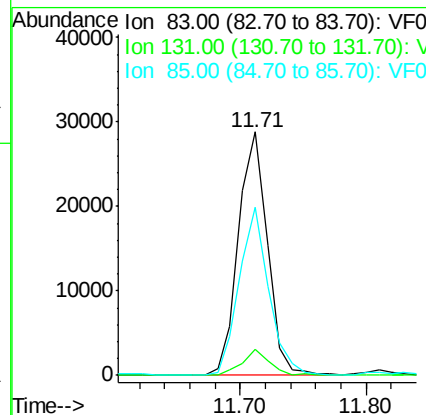
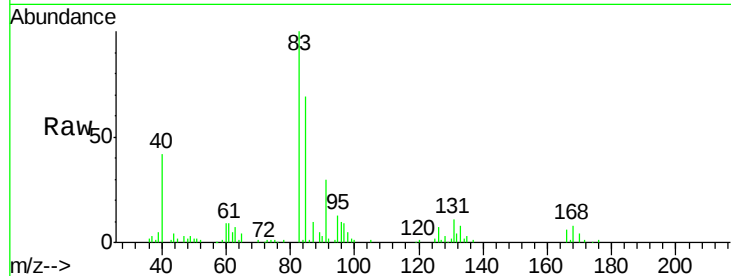
ClientSampleId :

VF0322SBS02

Tot Ion:	83	Resp:	45758
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.3	15.8
85	68.9	32.6	98.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.704 ug/l

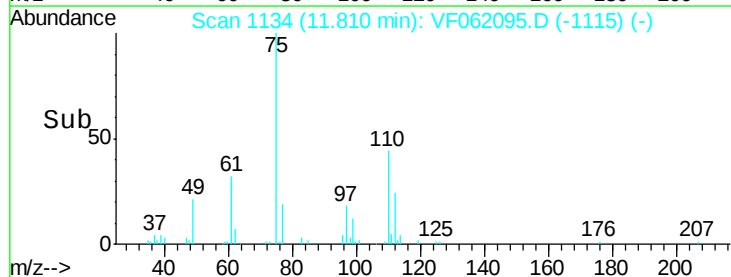
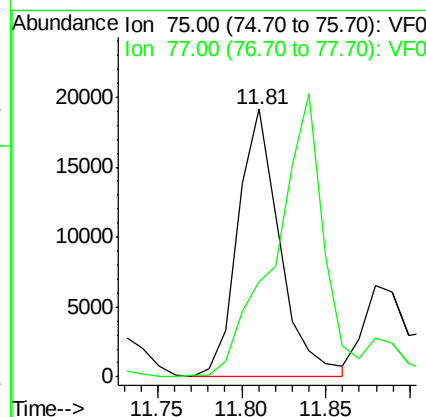
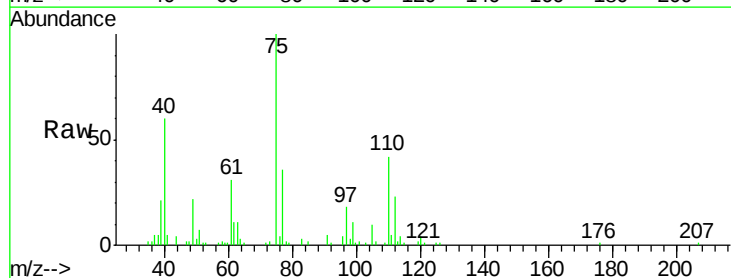
RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Tgt Ion:	75	Resp:	33169
Ion Ratio	Lower	Upper	
75	100		
77	35.5	17.8	53.3





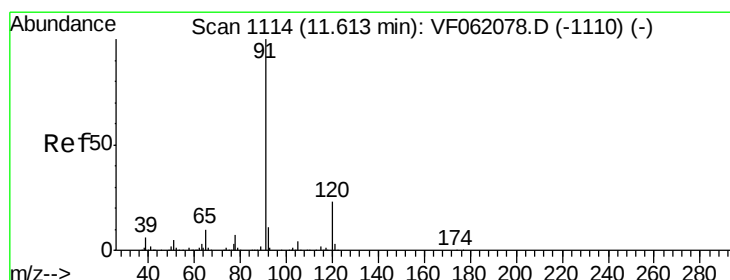
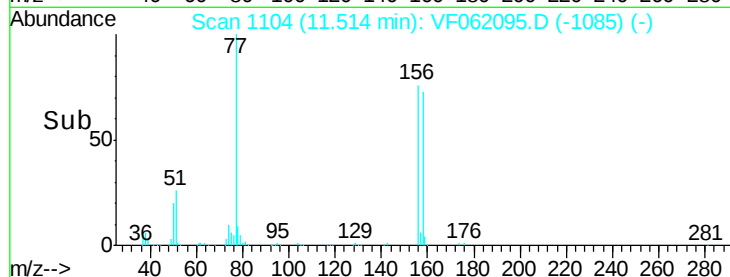
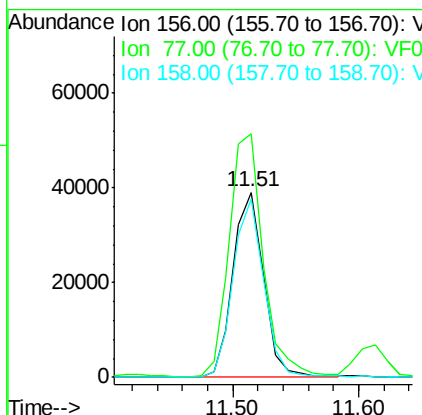
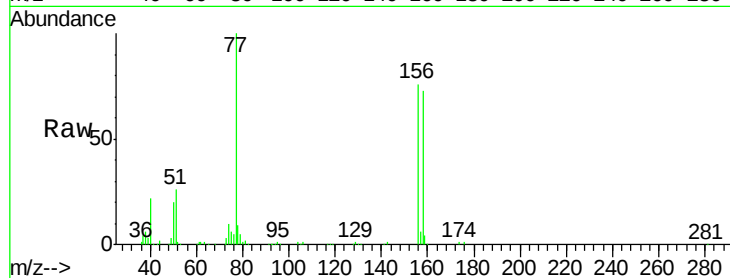
#77
Bromobenzene
Concen: 21.264 ug/l
RT: 11.51 min Scan# 1104
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		65705		
77	131.6	61.3	183.9		
158	96.5	48.6	145.9		

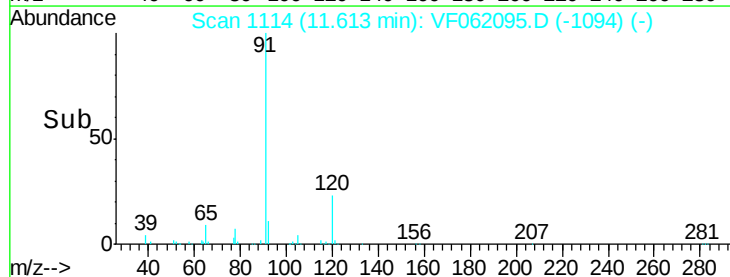
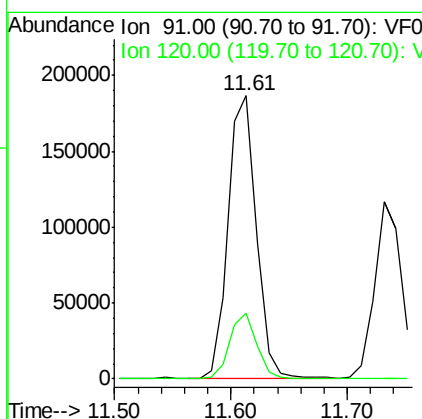
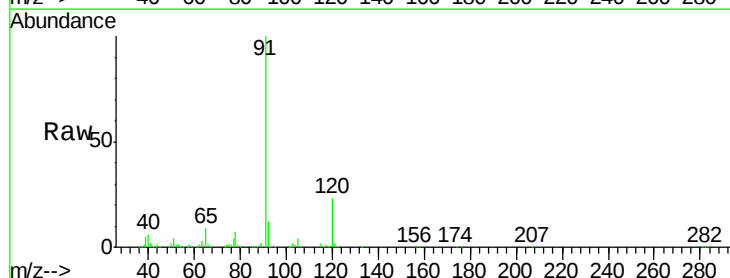
Manual Integrations
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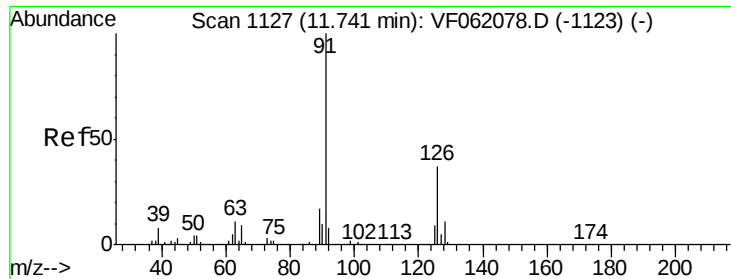
MMDadoda
3/29/2019 10:25:22 AM



#78
n-propylbenzene
Concen: 21.237 ug/l
RT: 11.61 min Scan# 1114
Delta R.T. -0.00 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		311875		
120	23.2	11.3	33.8		





#79

2-Chlorotoluene

Concen: 22.703 ug/l

RT: 11.73 min Scan# 1126

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion: 91 Resp: 185319

Ion Ratio Lower Upper

91 100

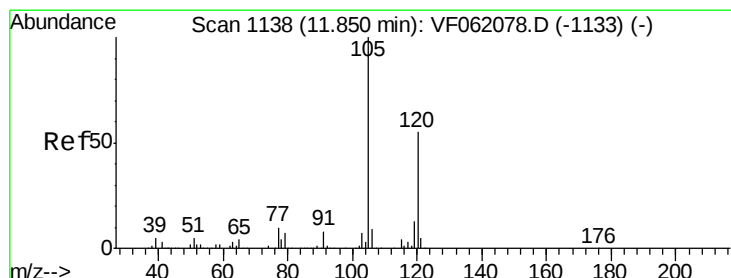
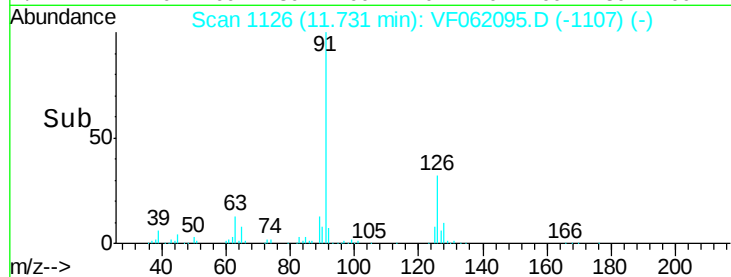
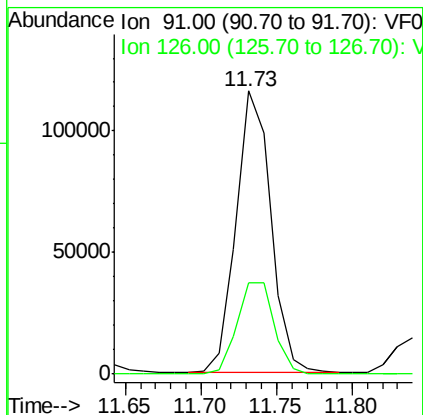
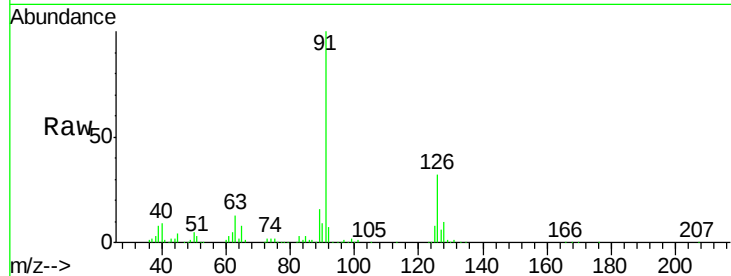
126 32.4 18.3 54.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 23.006 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VF062095.D

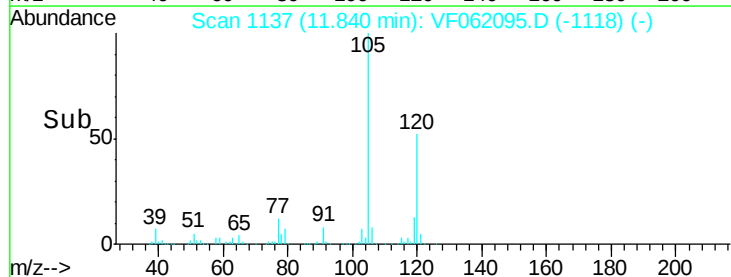
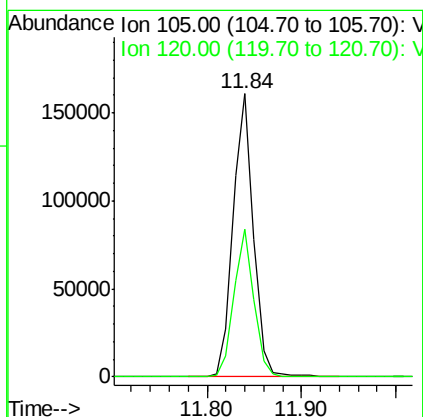
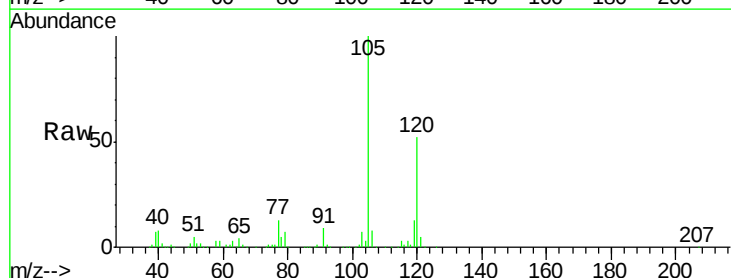
Acq: 22 Mar 2019 23:36

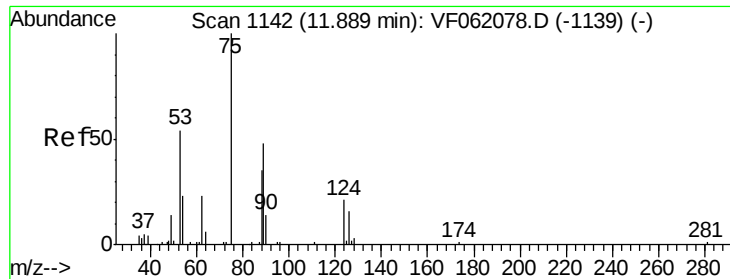
Tgt Ion: 105 Resp: 239329

Ion Ratio Lower Upper

105 100

120 52.4 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 17.366 ug/l m

RT: 11.88 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

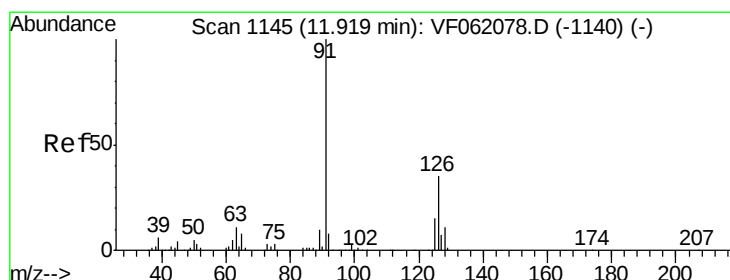
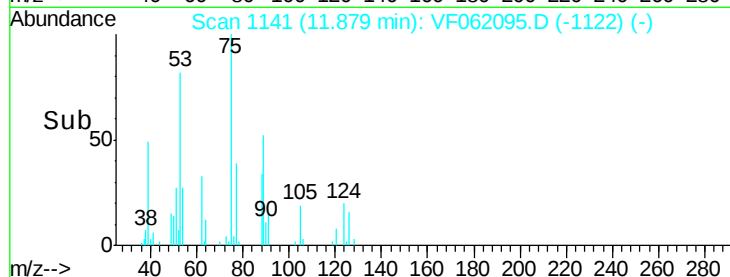
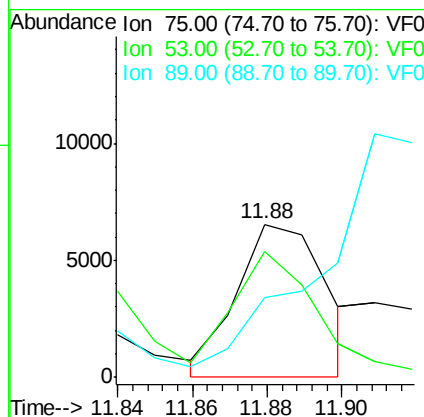
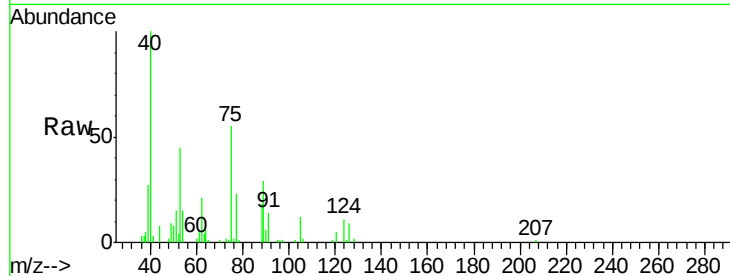
ClientSampleId :

VF0322SBS02

Tot Ion:	75	Resp:	10814
Ion Ratio	Lower	Upper	
75	100		
53	82.4	49.4	74.0#
89	52.4	40.6	60.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 21.084 ug/l

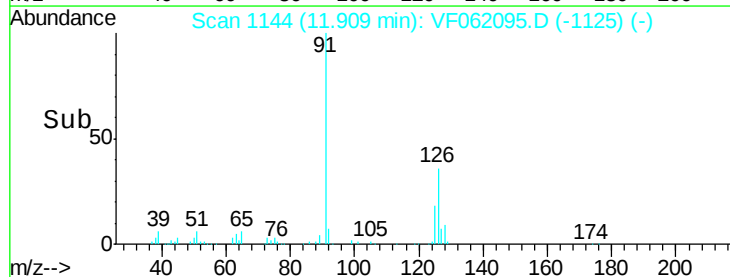
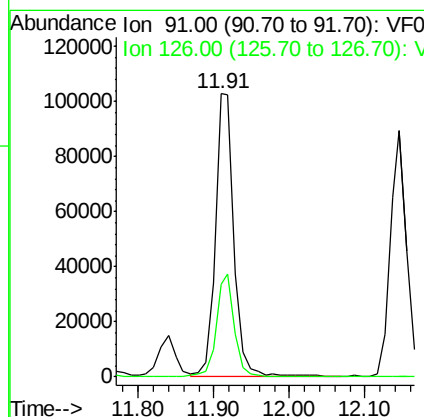
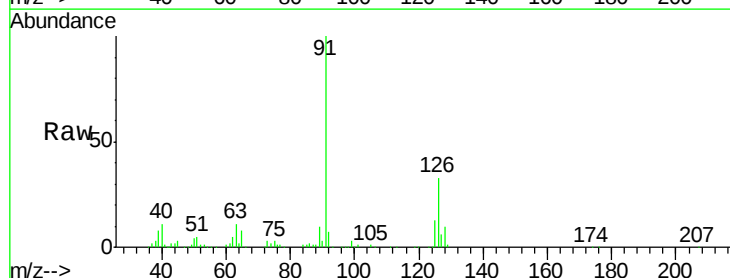
RT: 11.91 min Scan# 1144

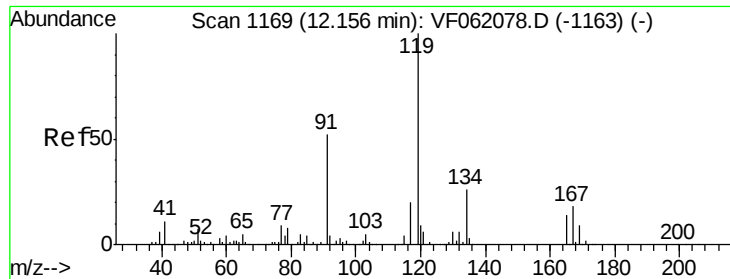
Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Tgt Ion:	91	Resp:	176457
Ion Ratio	Lower	Upper	
91	100		
126	32.8	17.2	51.6





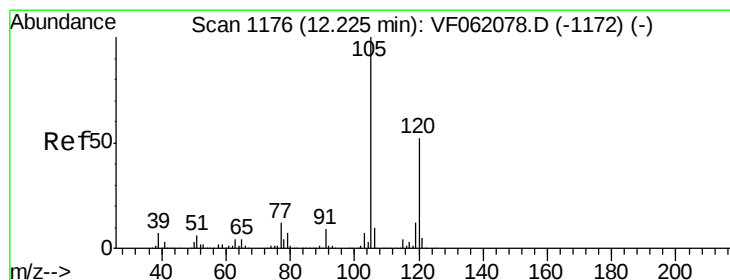
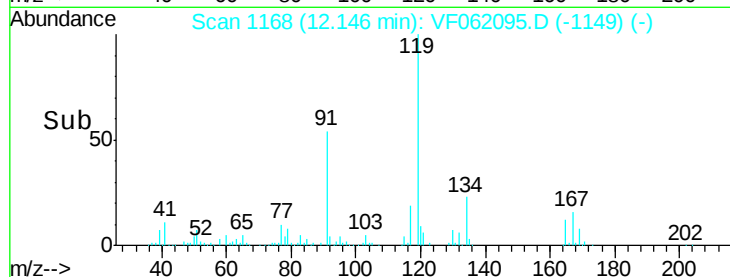
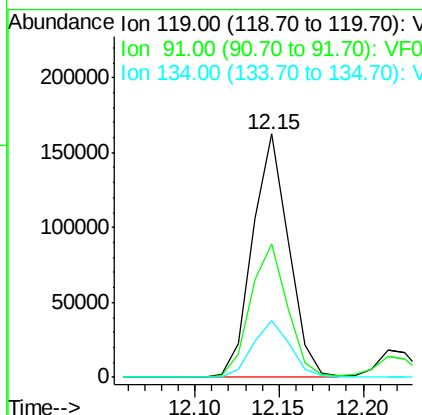
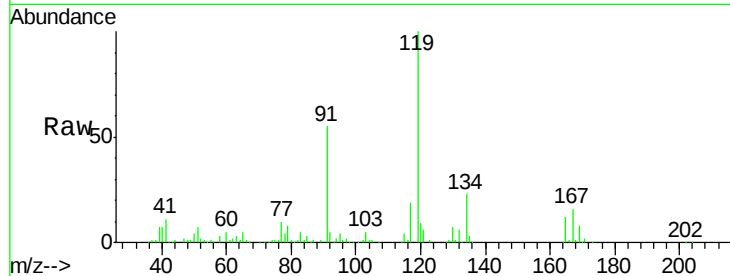
#83
tert-Butylbenzene
Concen: 22.306 ug/l
RT: 12.15 min Scan# 1168
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	242908		
91	55.0	26.1	78.2	
134	23.5	12.8	38.4	

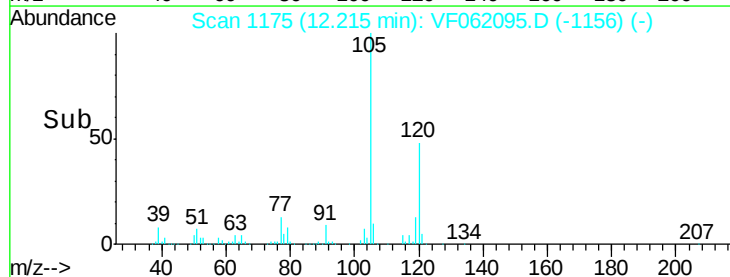
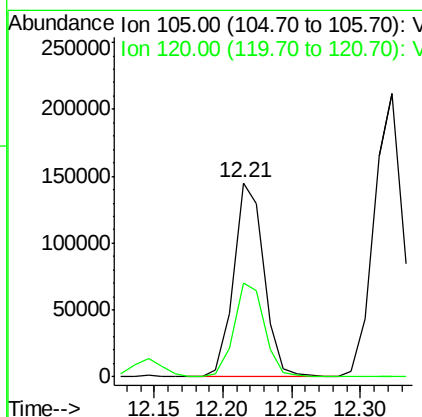
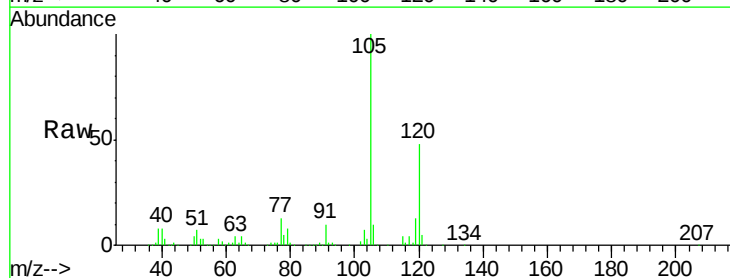
Manual Integrations
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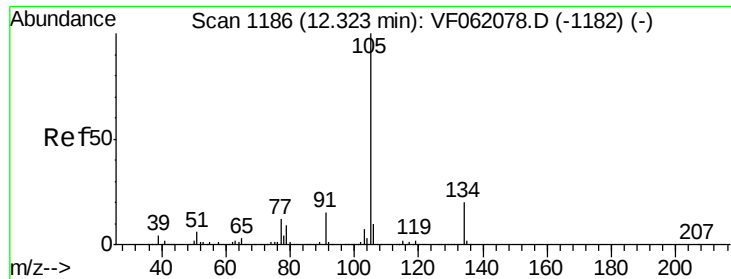
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#84
1,2,4-Trimethylbenzene
Concen: 21.887 ug/l
RT: 12.21 min Scan# 1175
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	223210		
120	48.2	26.1	78.2	





#85

sec-Butylbenzene

Concen: 22.105 ug/l

RT: 12.32 min Scan# 1186

Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

ClientSampleId :

VF0322SBS02

Tot Ion:105 Resp: 311408

Ion Ratio Lower Upper

105 100

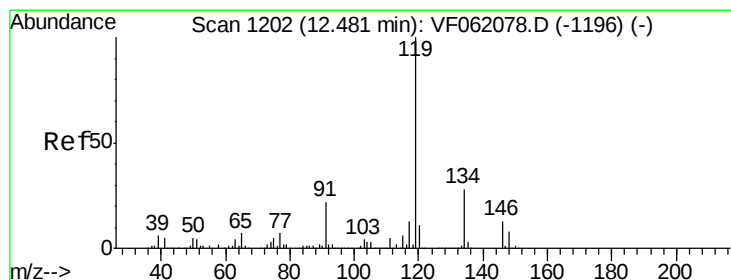
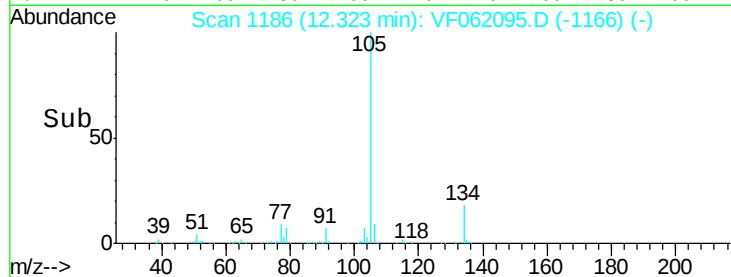
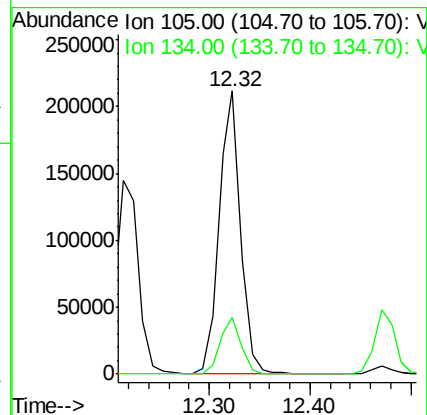
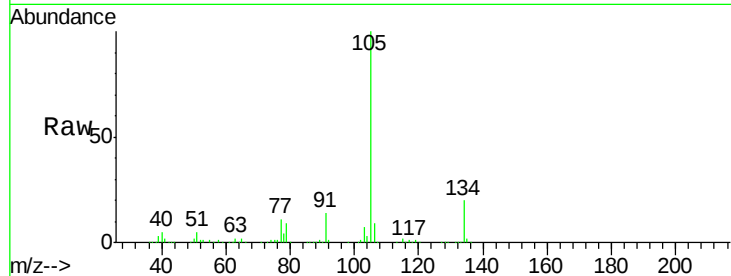
134 20.2 10.2 30.4

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 22.166 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.01 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

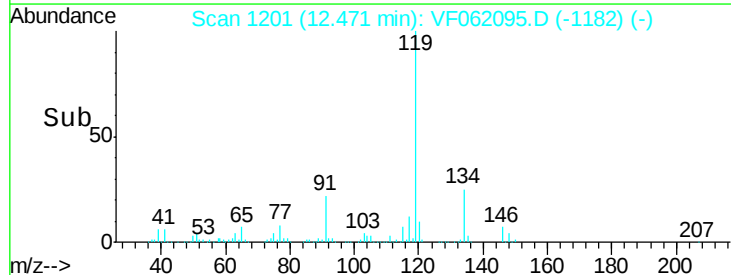
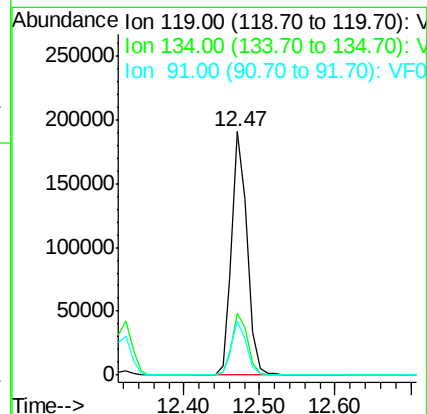
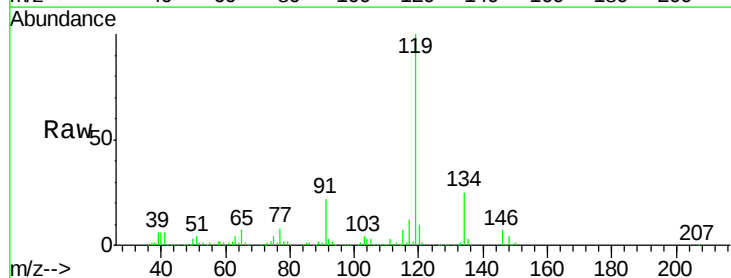
Tgt Ion:119 Resp: 270539

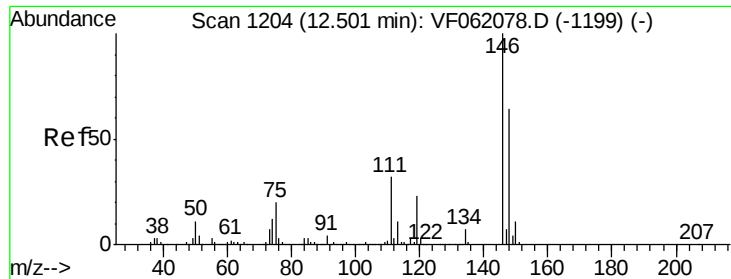
Ion Ratio Lower Upper

119 100

134 25.2 14.0 42.0

91 22.0 10.8 32.4





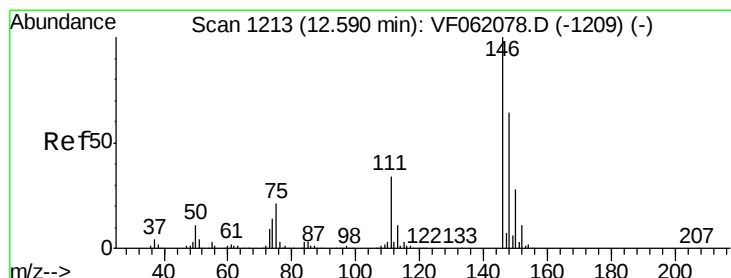
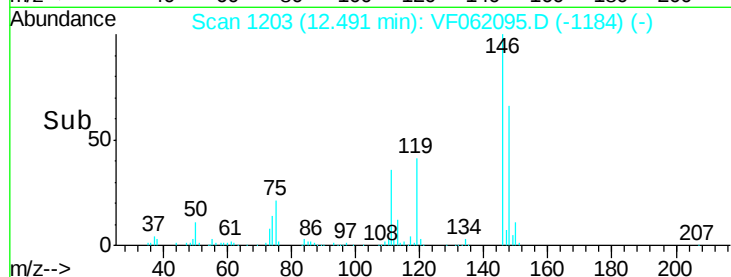
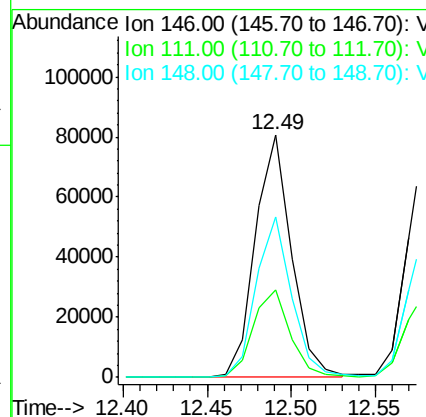
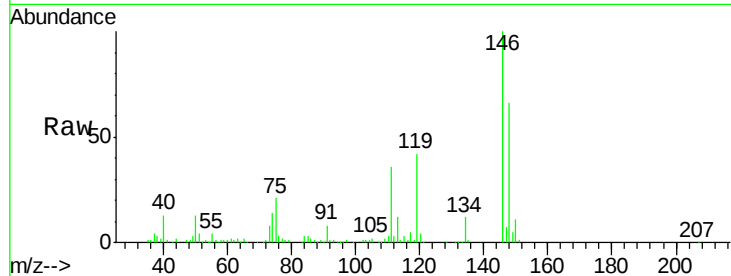
#87
 1,3-Dichlorobenzene
 Concen: 20.980 ug/l
 RT: 12.49 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.0	16.1	48.3
148	66.3	31.9	95.7

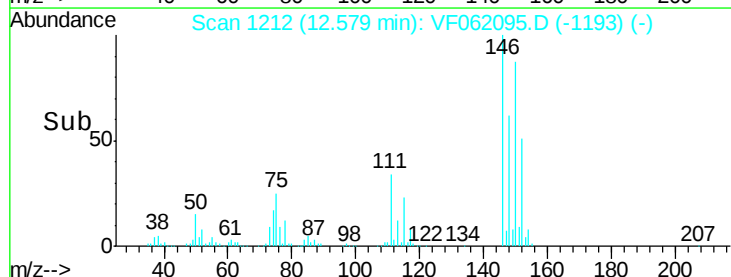
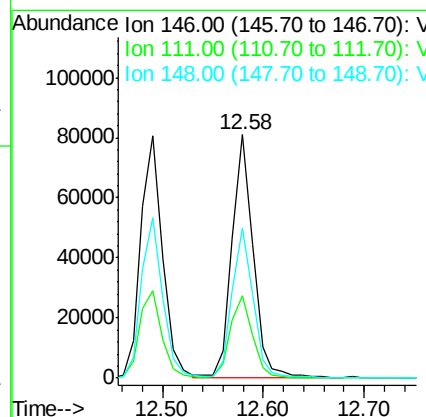
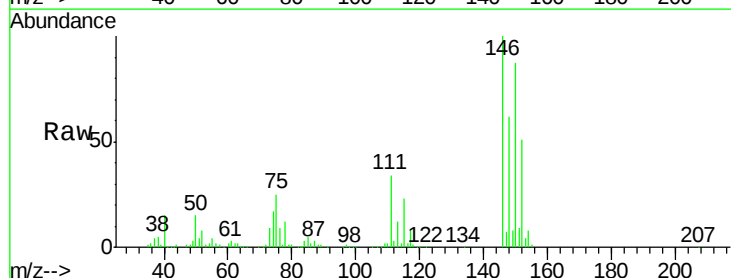
Manual Integrations
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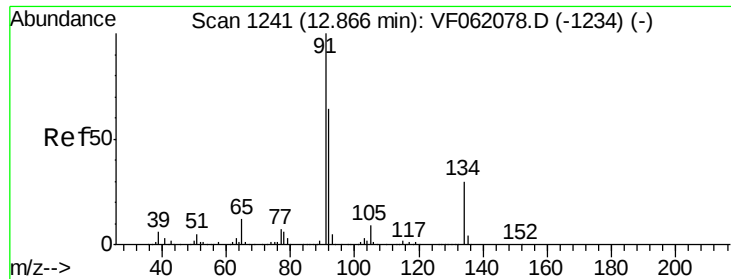
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#88
 1,4-Dichlorobenzene
 Concen: 21.168 ug/l
 RT: 12.58 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.8	16.9	50.6
148	61.7	31.9	95.7





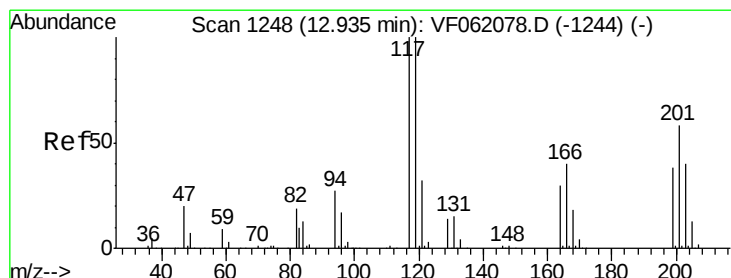
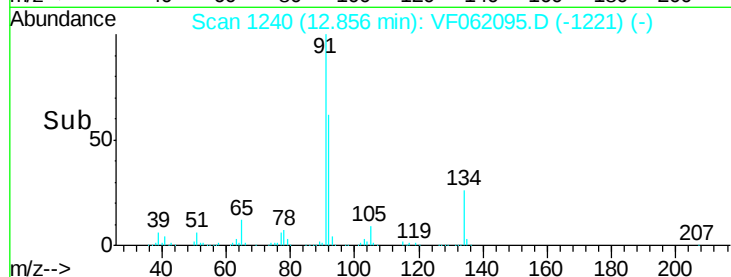
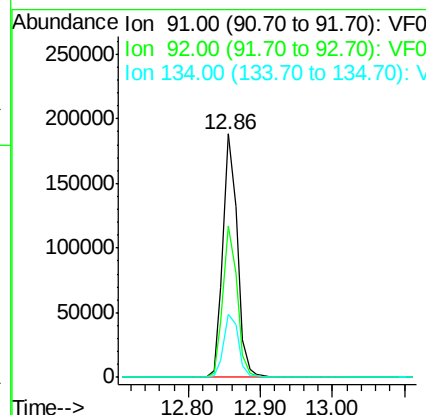
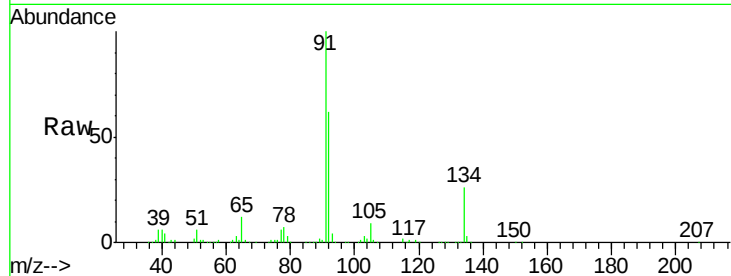
#89
n-Butylbenzene
Concen: 22.190 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Instrument :
MSVOA_F
ClientSampleId :
VF0322SBS02

Tot Ion	Ratio	Resp	Lower	Upper
91	100	258394		
92	62.0	31.9	95.5	
134	25.9	14.9	44.9	

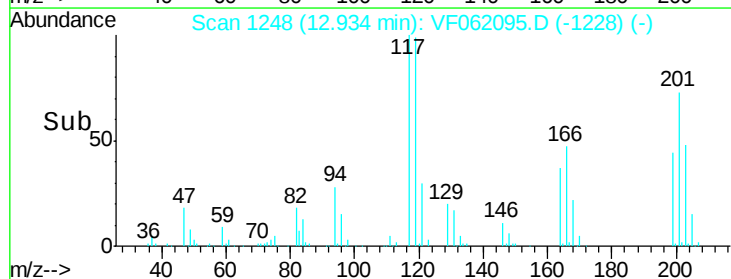
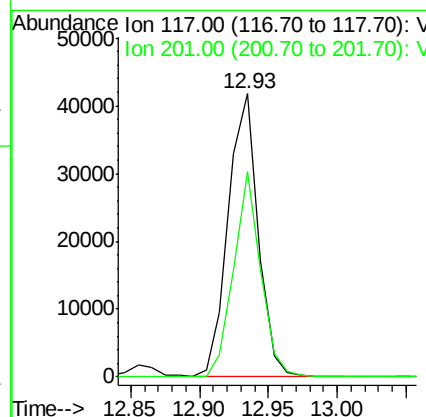
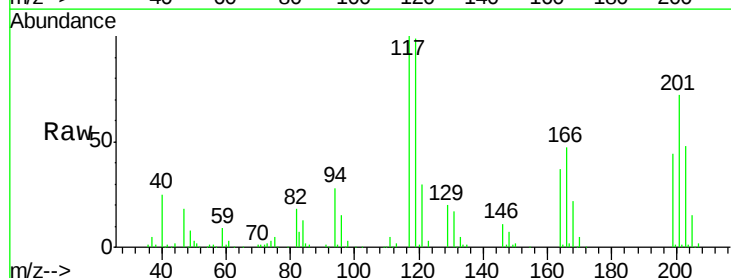
Manual Integrations
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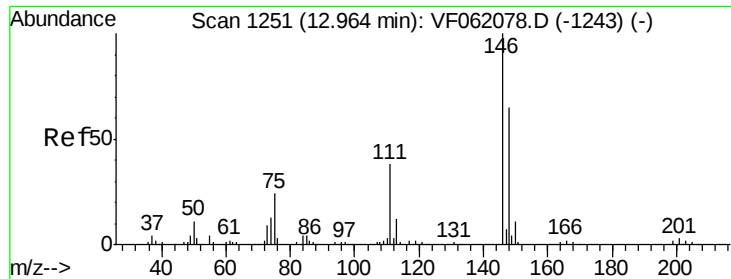
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#90
Hexachloroethane
Concen: 21.756 ug/l
RT: 12.93 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VF062095.D
Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	63229		
201	72.4	28.7	86.1	





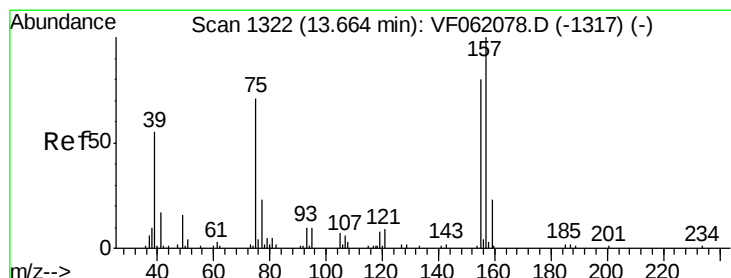
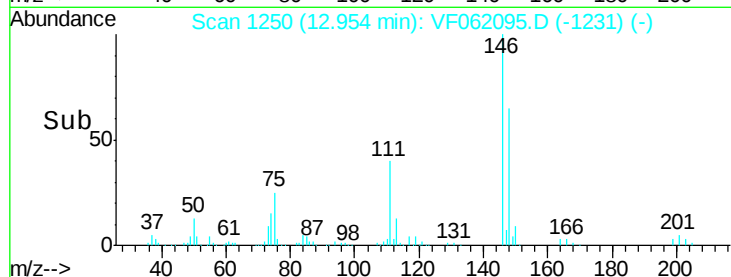
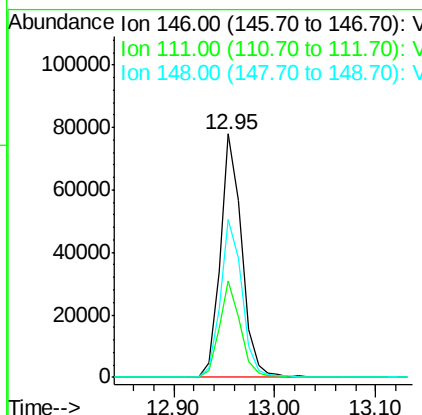
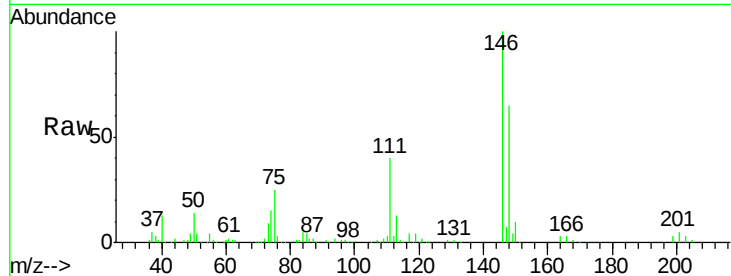
#91
 1,2-Dichlorobenzene
 Concen: 21.536 ug/l
 RT: 12.95 min Scan# 1250
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.1	57.3
148	64.7	32.8	98.3

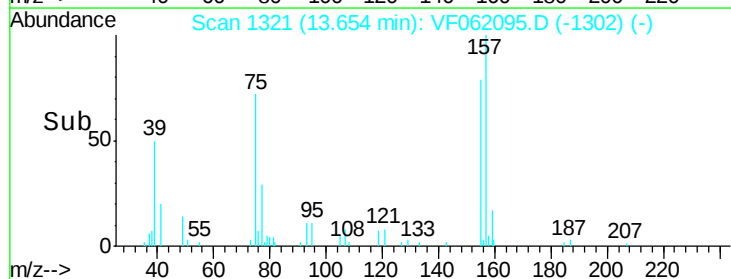
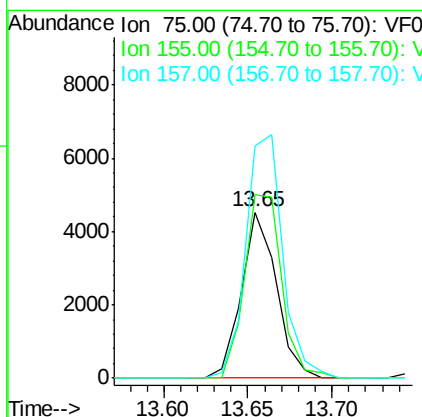
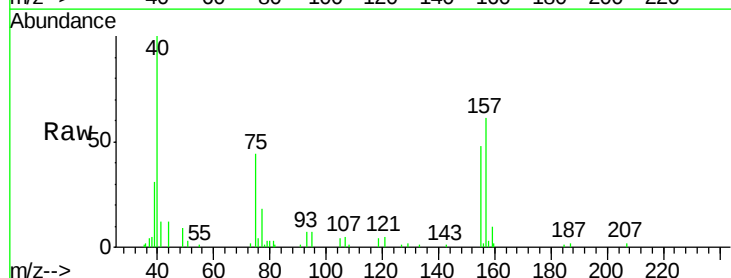
Manual Integrations
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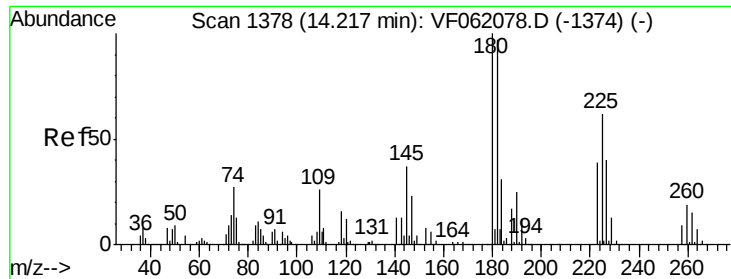
MMDadoda
 3/29/2019 10:25:22 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.907 ug/l
 RT: 13.65 min Scan# 1321
 Delta R.T. -0.01 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Lower	Upper
75	100		
155	110.3	56.1	168.4
157	139.8	70.4	211.2





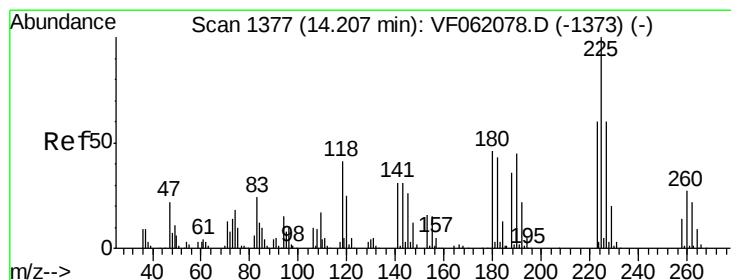
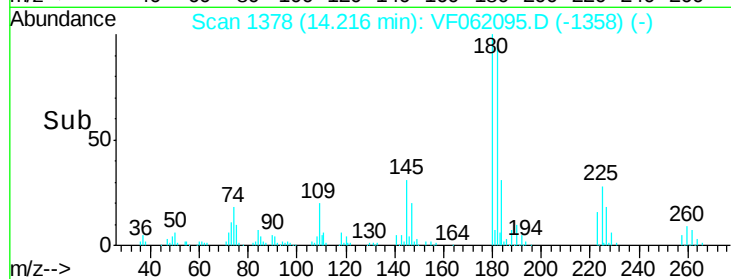
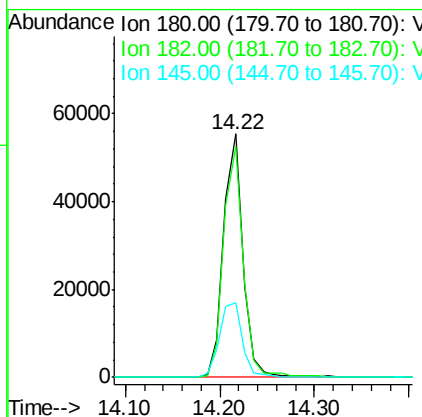
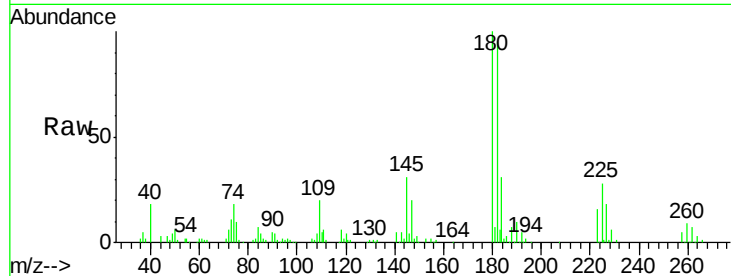
#93
 1,2,4-Trichlorobenzene
 Concen: 21.161 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. -0.00 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0322SBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	79498		
182	94.6	48.7	146.1	
145	30.6	18.3	54.8	

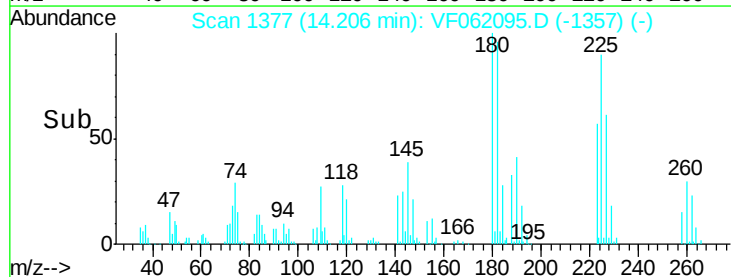
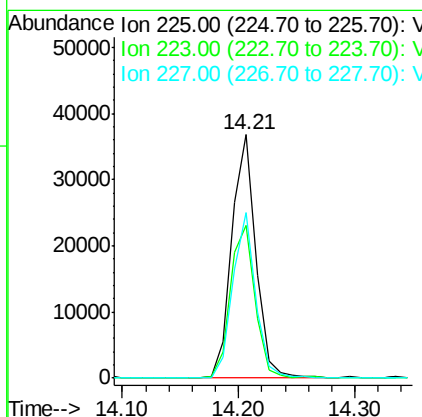
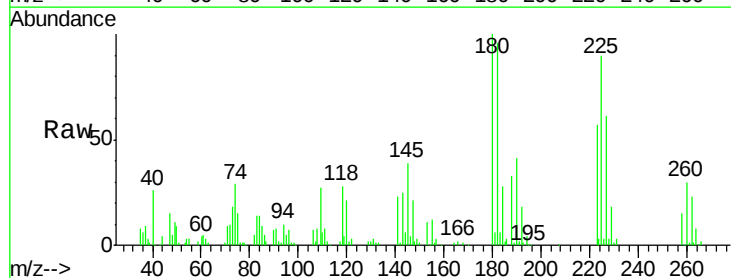
Manual Integrations
 APPROVED

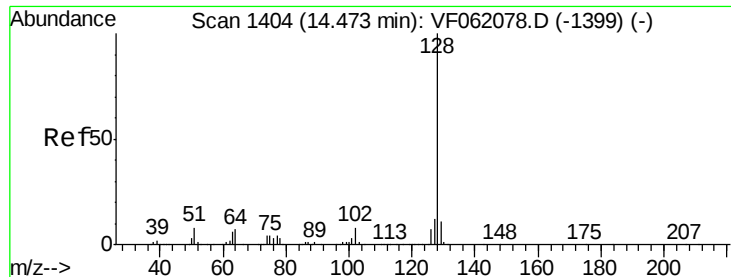
MMDadoda
 3/29/2019 10:25:22 AM



#94
 Hexachlorobutadiene
 Concen: 21.090 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF062095.D
 Acq: 22 Mar 2019 23:36

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	52683		
223	60.5	30.0	90.0	
227	65.3	30.2	90.6	





#95

Naphthalene

Concen: 20.724 ug/l

RT: 14.47 min Scan# 1404

Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Instrument :

MSVOA_F

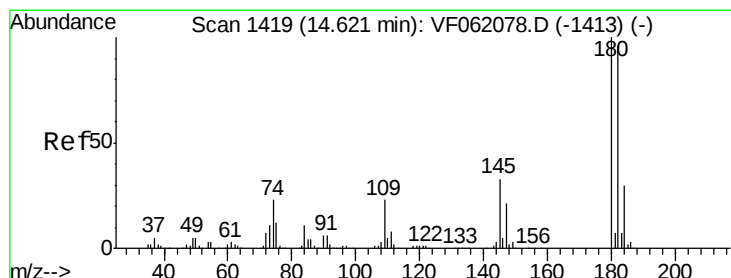
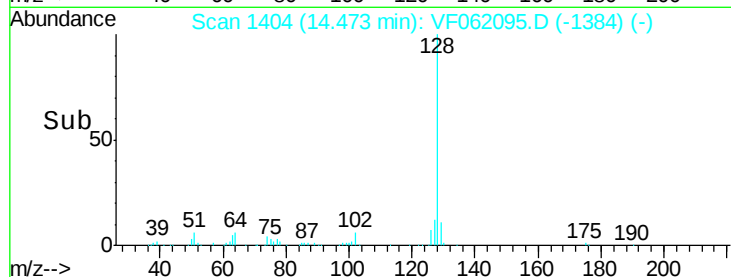
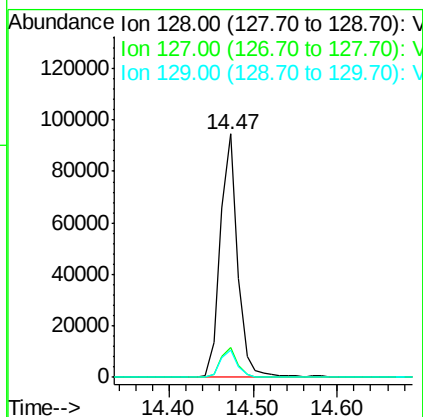
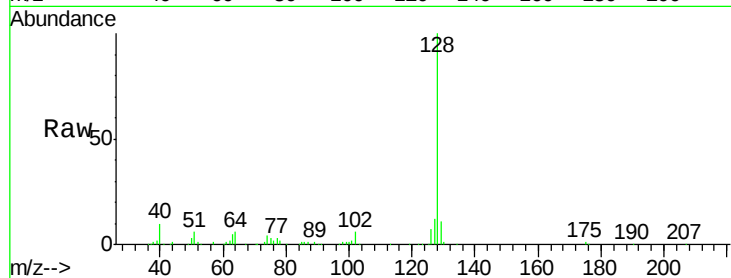
ClientSampleId :

VF0322SBS02

Tot Ion:	128	Resp:	136441
Ion Ratio	Lower	Upper	
128	100		
127	12.2	9.5	14.3
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/29/2019 10:25:22 AM



#96

1,2,3-Trichlorobenzene

Concen: 20.979 ug/l

RT: 14.62 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF062095.D

Acq: 22 Mar 2019 23:36

Tgt Ion:	180	Resp:	73776
Ion Ratio	Lower	Upper	
180	100		
182	100.6	47.9	143.7
145	30.5	16.6	49.7

