

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062080.D
 Acq On : 22 Mar 2019 13:22
 Operator : VA/AP
 Sample : VSTDIC100
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:13 AM

Quant Time: Mar 23 01:13:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 00:41:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.91	168	283643	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.63	114	470921	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	398125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	193493	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.88	65	218855	103.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	207.46%	
35) Dibromofluoromethane	4.15	113	303754	95.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	190.70%	
50) Toluene-d8	7.58	98	879953	92.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	185.08%	
62) 4-Bromofluorobenzene	11.44	95	337775	92.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	184.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.98	85	350130	96.357	ug/l	97
3) Chloromethane	1.10	50	368523	96.925	ug/l	95
4) Vinyl Chloride	1.15	62	351947	100.074	ug/l	98
5) Bromomethane	1.35	94	227284	89.904	ug/l	85
6) Chloroethane	1.41	64	170220	96.147	ug/l	94
7) Trichlorofluoromethane	1.50	101	416152m	102.014	ug/l	
8) Diethyl Ether	1.65	74	93965	96.848	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	1.86	101	273396	94.350	ug/l	98
10) Methyl Iodide	1.93	142	555346m	102.787	ug/l	
11) Tert butyl alcohol	2.60	59	54159	466.554	ug/l	94
12) 1,1-Dichloroethene	1.81	96	262847	96.136	ug/l	96
13) Acrolein	2.02	56	71009	507.537	ug/l	99
14) Allyl chloride	2.11	41	282578	96.804	ug/l	97
15) Acrylonitrile	2.97	53	200317	490.729	ug/l	98
16) Acetone	2.26	43	224300	505.143	ug/l	100
17) Carbon Disulfide	1.85	76	837241m	102.446	ug/l	
18) Methyl Acetate	2.37	43	91450	86.941	ug/l	92
19) Methyl tert-butyl Ether	2.46	73	437761	101.305	ug/l	98
20) Methylene Chloride	2.20	84	261395m	88.120	ug/l	
21) trans-1,2-Dichloroethene	2.33	96	280876m	110.538	ug/l	
22) Diisopropyl ether	2.83	45	761171	99.456	ug/l	98
23) Vinyl Acetate	3.22	43	1573014	501.999	ug/l	99
24) 1,1-Dichloroethane	2.90	63	447353	97.472	ug/l	100
25) 2-Butanone	4.37	43	450660	486.162	ug/l	97
26) 2,2-Dichloropropane	3.63	77	182742	98.203	ug/l	94
27) cis-1,2-Dichloroethene	3.51	96	358663	102.889	ug/l	98
28) Bromochloromethane	3.76	49	196638	104.863	ug/l	98
29) Tetrahydrofuran	4.11	42	193800	480.852	ug/l	97
30) Chloroform	3.90	83	478071	98.564	ug/l	98
31) Cyclohexane	3.73	56	484013m	107.461	ug/l	
32) 1,1,1-Trichloroethane	4.13	97	269404	91.308	ug/l	96
36) 1,1-Dichloropropene	4.32	75	422578	94.209	ug/l	98
37) Ethyl Acetate	4.15	43	170112	86.779	ug/l	98
38) Carbon Tetrachloride	4.02	117	284013	92.900	ug/l	95

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	500049	96.054	ug/l	98
40) Benzene	4.67	78	1107194	92.076	ug/l	99
41) Methacrylonitrile	4.78	41	96489	93.027	ug/l	97
42) 1,2-Dichloroethane	4.98	62	266708	93.793	ug/l	98
43) Isopropyl Acetate	6.99	43	211313	89.010	ug/l #	99
44) Trichloroethene	5.54	130	336736	91.594	ug/l	95
45) 1,2-Dichloropropane	6.27	63	270369	94.270	ug/l	97
46) Dibromomethane	6.12	93	167109	95.295	ug/l	95
47) Bromodichloromethane	6.42	83	378840	97.533	ug/l	99
48) Methyl methacrylate	6.75	41	131507	97.290	ug/l	97
49) 1,4-Dioxane	6.74	88	24111	2032.840	ug/l	97
51) 4-Methyl-2-Pentanone	8.29	43	674793	424.675	ug/l	99
52) Toluene	7.66	92	643950	92.457	ug/l	95
53) t-1,3-Dichloropropene	8.31	75	288232	94.527	ug/l	97
54) cis-1,3-Dichloropropene	7.34	75	413042	94.672	ug/l	98
55) 1,1,2-Trichloroethane	8.52	97	186753	94.399	ug/l	96
56) Ethyl methacrylate	8.65	69	206409	87.484	ug/l	94
57) 1,3-Dichloropropane	8.89	76	305891	93.161	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.33	63	172359	481.424	ug/l	95
59) 2-Hexanone	9.53	43	477751	410.240	ug/l	99
60) Dibromochloromethane	8.75	129	266682	96.967	ug/l	98
61) 1,2-Dibromoethane	9.02	107	198853	94.214	ug/l	99
64) Tetrachloroethene	8.18	164	284350	92.446	ug/l	93
65) Chlorobenzene	9.83	112	703258	94.407	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.96	131	279766	93.497	ug/l	99
67) Ethyl Benzene	9.93	91	1169612	90.284	ug/l	97
68) m/p-Xylenes	10.17	106	890480	183.908	ug/l	90
69) o-Xylene	10.74	106	443071	87.369	ug/l	98
70) Styrene	10.82	104	694891	90.437	ug/l	98
71) Bromoform	10.80	173	142926	93.386	ug/l	99
73) Isopropylbenzene	11.15	105	1294345	95.065	ug/l	97
74) N-amyl acetate	11.39	43	311267	95.945	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.72	83	227120	97.151	ug/l	98
76) 1,2,3-Trichloropropane	11.81	75	151060	91.816	ug/l	96
77) Bromobenzene	11.52	156	316982	95.292	ug/l	89
78) n-propylbenzene	11.62	91	1393712	88.154	ug/l	96
79) 2-Chlorotoluene	11.74	91	830399	94.497	ug/l	99
80) 1,3,5-Trimethylbenzene	11.84	105	1038660	92.744	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.89	75	70752m	79.735	ug/l	
82) 4-Chlorotoluene	11.92	91	833676	92.527	ug/l	96
83) tert-Butylbenzene	12.15	119	1083981	92.462	ug/l	96
84) 1,2,4-Trimethylbenzene	12.23	105	1006205	91.650	ug/l	96
85) sec-Butylbenzene	12.33	105	1424387	93.918	ug/l	96
86) p-Isopropyltoluene	12.48	119	1196161	91.034	ug/l	98
87) 1,3-Dichlorobenzene	12.49	146	553308	89.530	ug/l	94
88) 1,4-Dichlorobenzene	12.58	146	563509	93.442	ug/l	95
89) n-Butylbenzene	12.87	91	1114160	88.877	ug/l	95
90) Hexachloroethane	12.94	117	305451	97.628	ug/l	89
91) 1,2-Dichlorobenzene	12.97	146	529943	91.321	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.67	75	36736	103.710	ug/l	93

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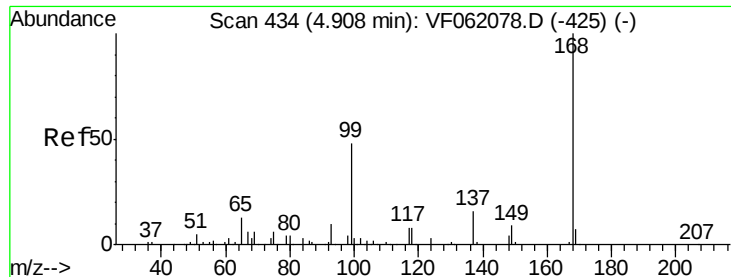
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	370898	91.705	ug/l	100
94) Hexachlorobutadiene	14.21	225	253994	94.450	ug/l	95
95) Naphthalene	14.48	128	753312	106.286	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	373751	98.723	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion:168 Resp: 283643

Ion Ratio Lower Upper

168 100

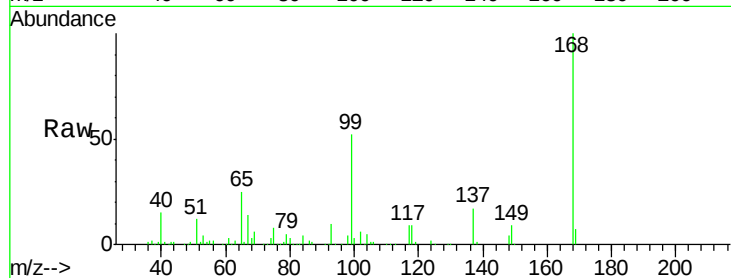
99 51.5 38.2 57.4

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

4.91

80000

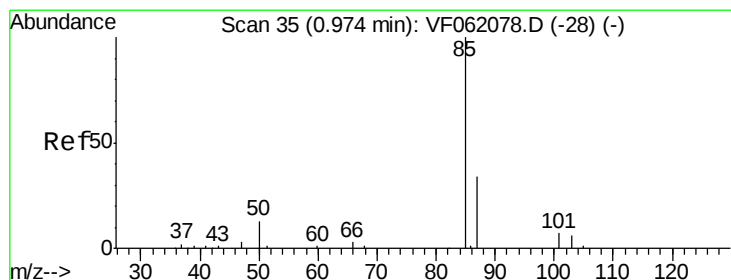
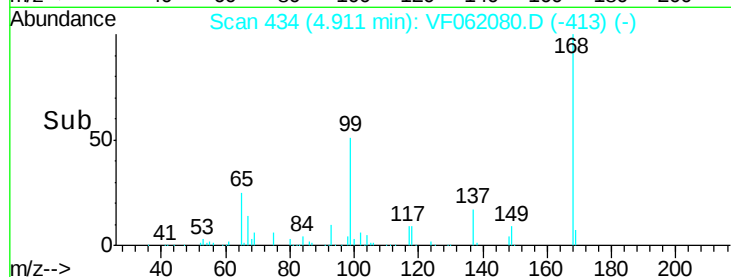
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#2

Dichlorodifluoromethane

Concen: 96.357 ug/l

RT: 0.98 min Scan# 35

Delta R.T. 0.00 min

Lab File: VF062080.D

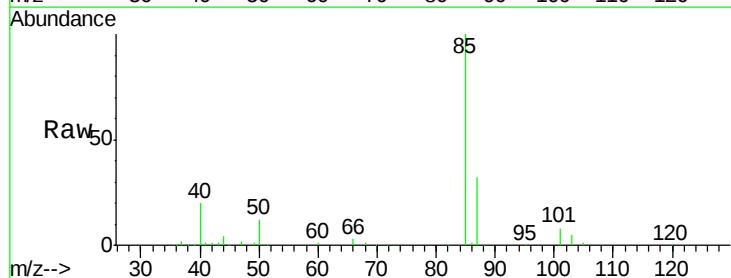
Acq: 22 Mar 2019 13:22

Tgt Ion: 85 Resp: 350130

Ion Ratio Lower Upper

85 100

87 32.1 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

100000

80000

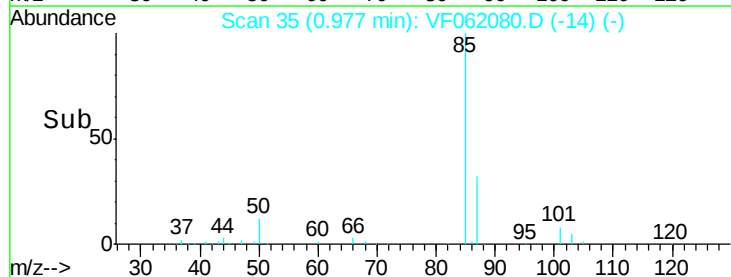
60000

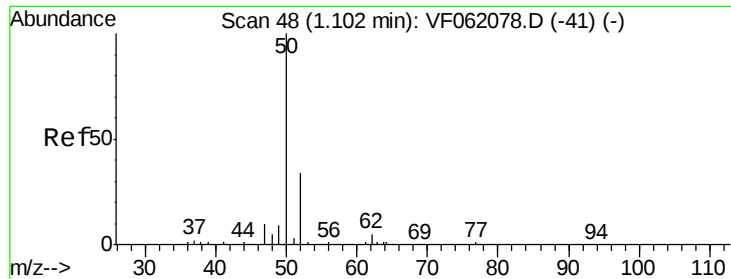
40000

20000

0

Time--> 0.80 0.90 1.00 1.10 1.20





#3

Chloromethane

Concen: 96.925 ug/l

RT: 1.10 min Scan# 48

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 50 Resp: 368523

Ion Ratio Lower Upper

50 100

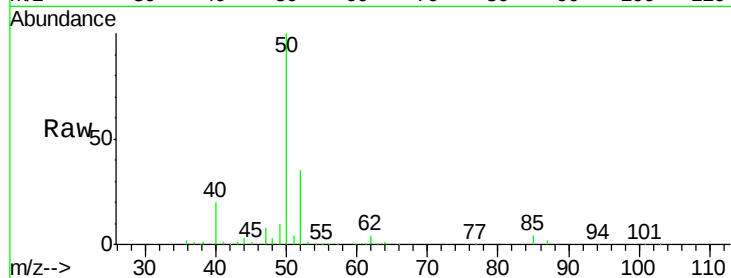
52 35.3 26.1 39.1

Manual Integrations

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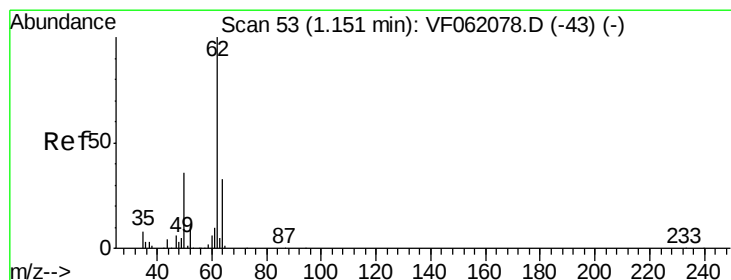
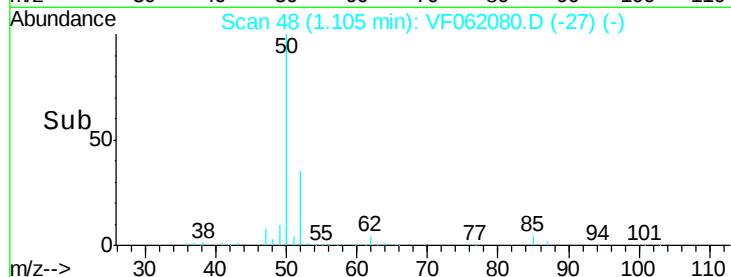
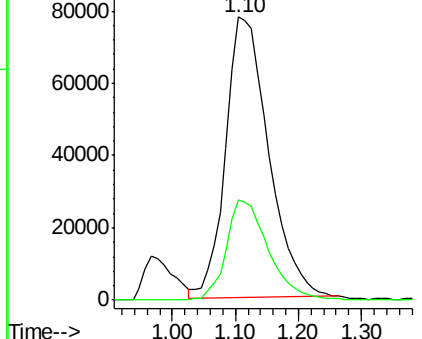
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Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 100.074 ug/l

RT: 1.15 min Scan# 53

Delta R.T. 0.00 min

Lab File: VF062080.D

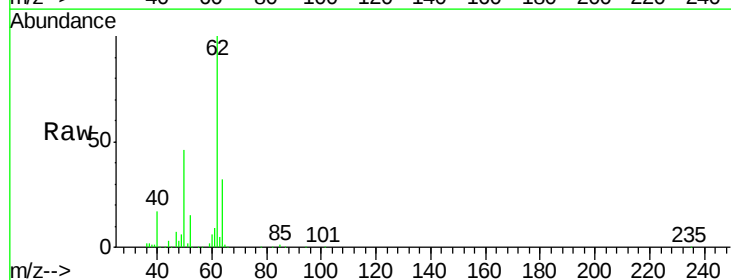
Acq: 22 Mar 2019 13:22

Tgt Ion: 62 Resp: 351947

Ion Ratio Lower Upper

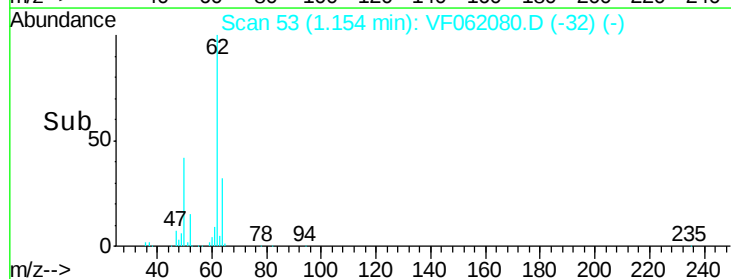
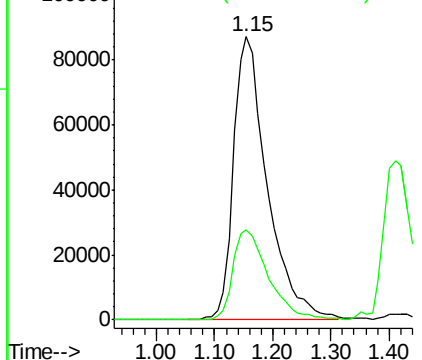
62 100

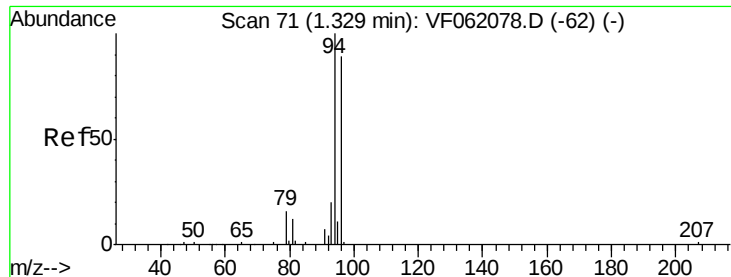
64 31.8 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 89.904 ug/l

RT: 1.35 min Scan# 73

Delta R.T. 0.02 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 94 Resp: 227284

Ion Ratio Lower Upper

94 100

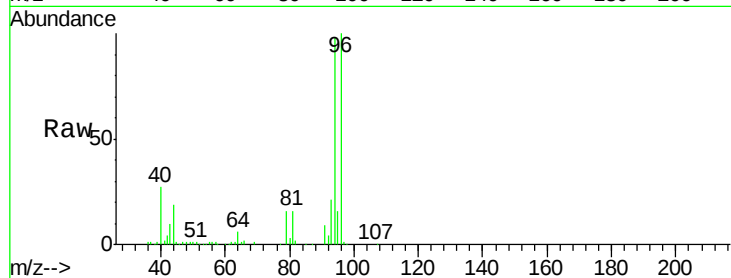
96 102.4 70.9 106.3

Manual Integrations

APPROVED

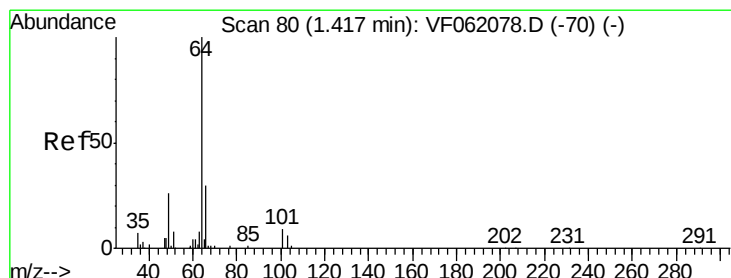
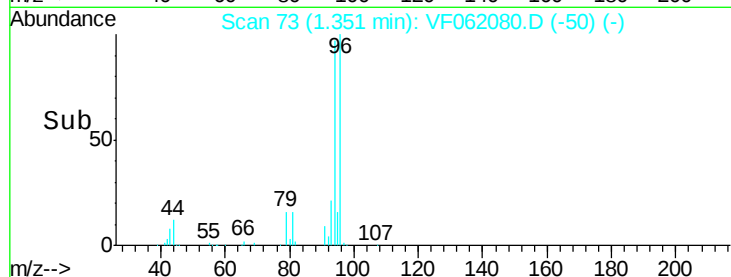
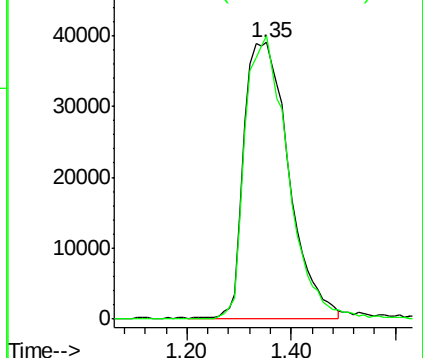
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Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 96.147 ug/l

RT: 1.41 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF062080.D

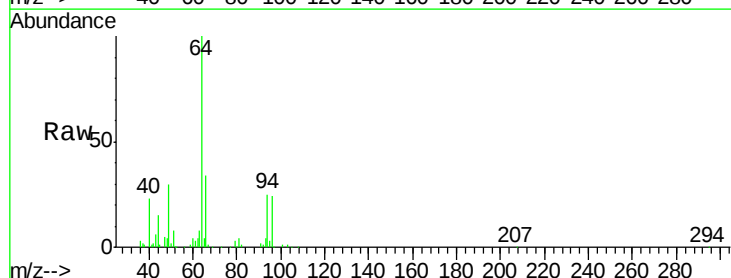
Acq: 22 Mar 2019 13:22

Tgt Ion: 64 Resp: 170220

Ion Ratio Lower Upper

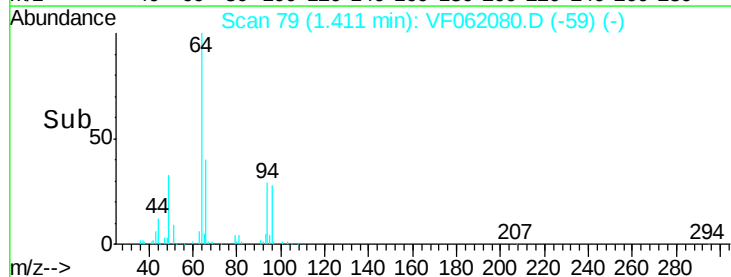
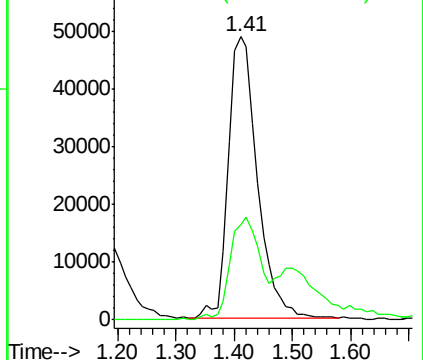
64 100

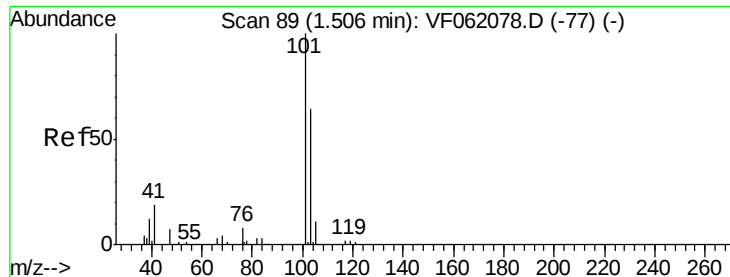
66 33.7 24.5 36.7



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

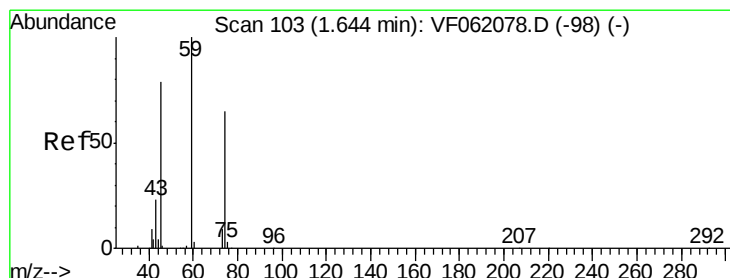
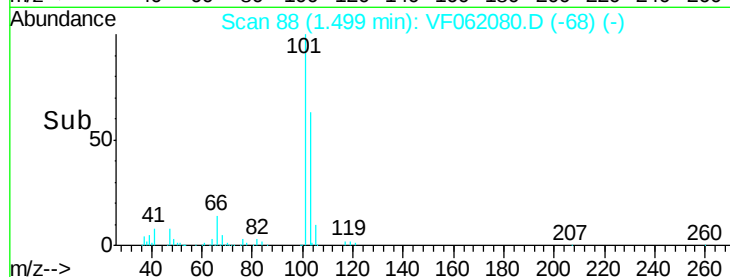
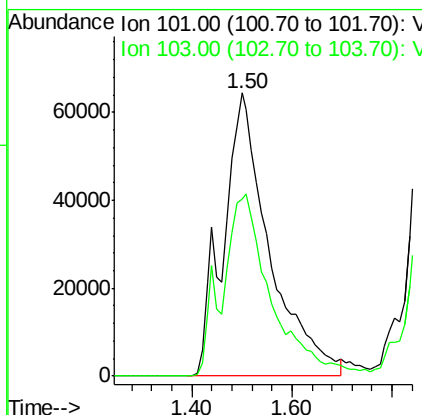
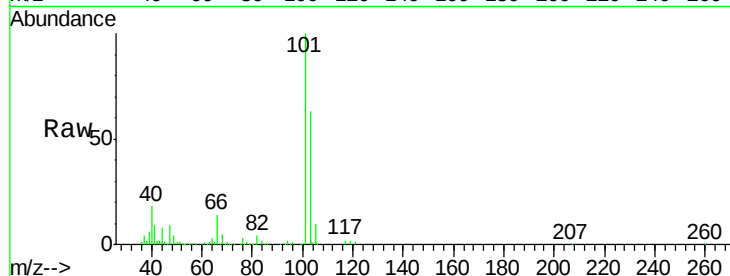
Trichlorofluoromethane
 Concen: 102.014 ug/l m
 RT: 1.50 min Scan# 88
 Delta R.T. -0.01 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		416152		
103	62.5	51.5	77.3		

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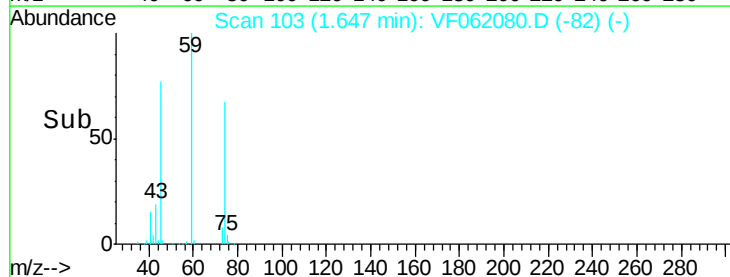
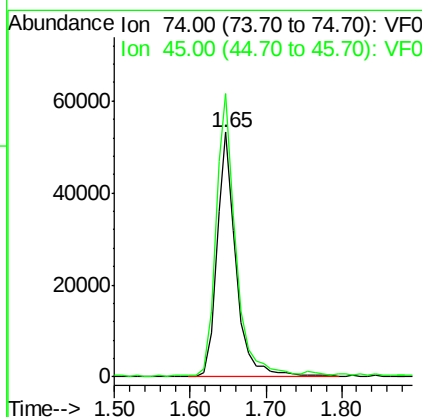
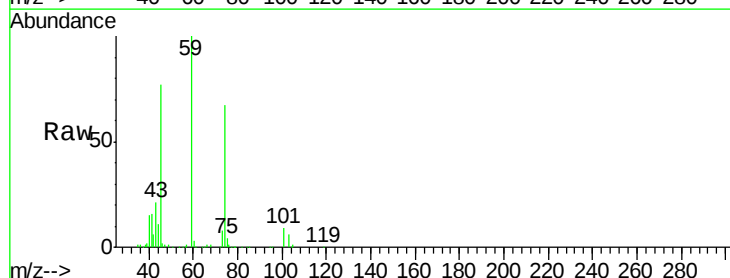
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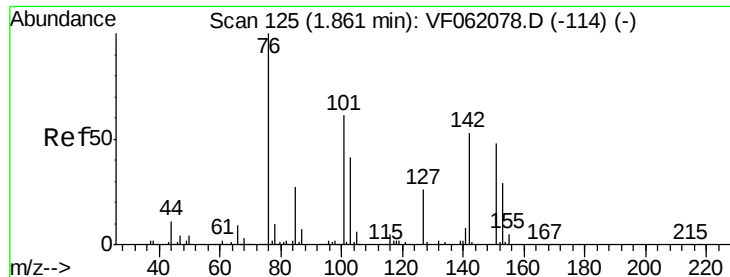


#8

Diethyl Ether
 Concen: 96.848 ug/l
 RT: 1.65 min Scan# 103
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		93965		
45	115.7	61.4	184.2		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 94.350 ug/l

RT: 1.86 min Scan# 125

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

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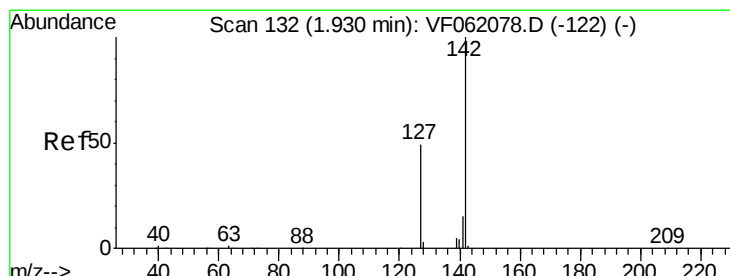
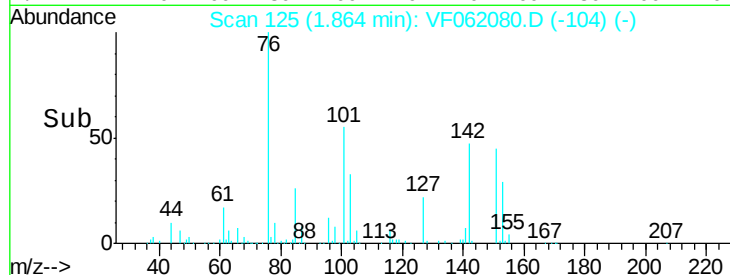
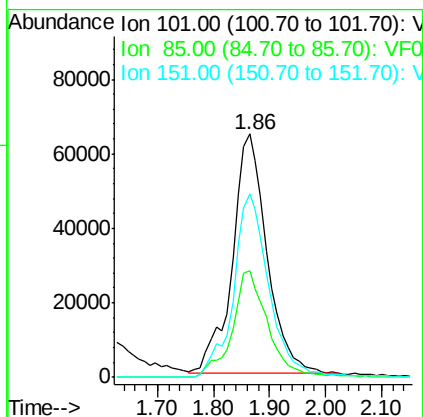
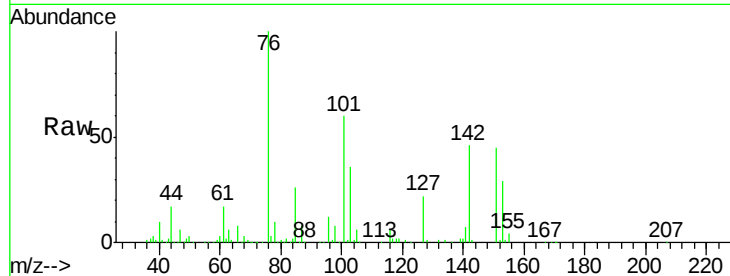
ClientSampleId :

VSTDIC100

Tot Ion:	101	Resp:	273396
Ion Ratio	Lower	Upper	
101	100		
85	43.9	34.6	52.0
151	75.3	61.7	92.5

Manual Integrations
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MMDadoda
3/27/2019 11:57:13 AM



#10

Methyl Iodide

Concen: 102.787 ug/l m

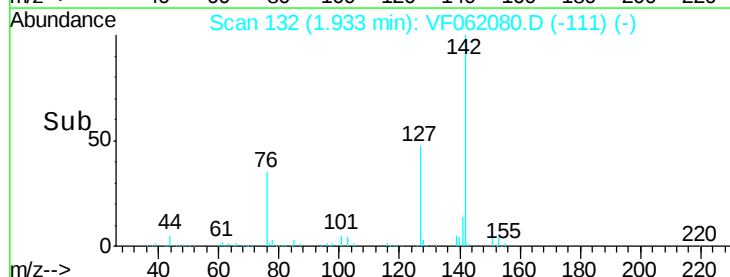
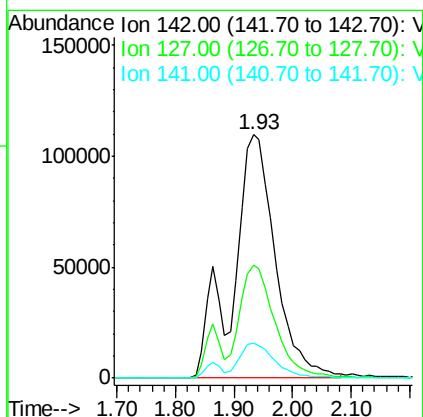
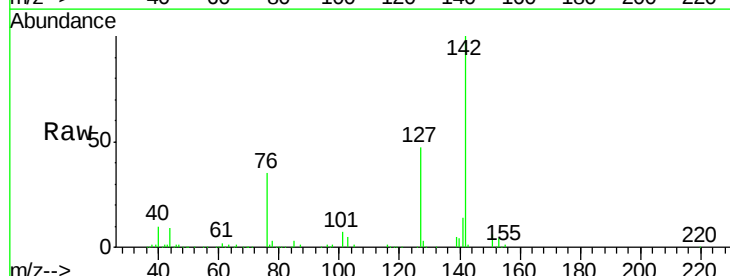
RT: 1.93 min Scan# 132

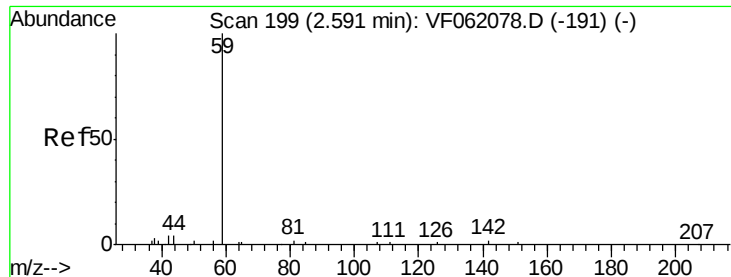
Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion:	142	Resp:	555346
Ion Ratio	Lower	Upper	
142	100		
127	46.6	39.1	58.7
141	14.5	12.2	18.4





#11

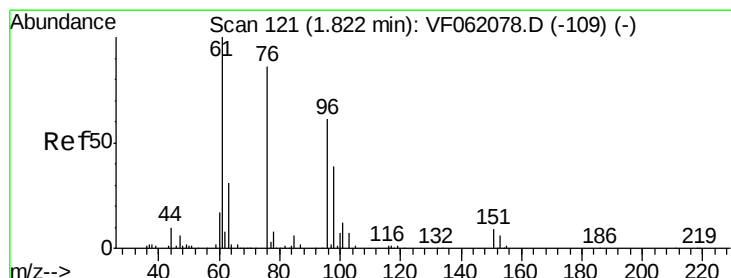
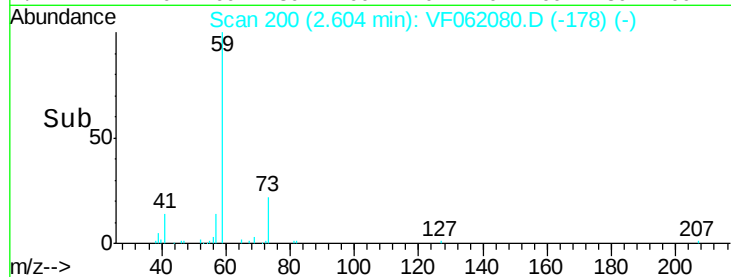
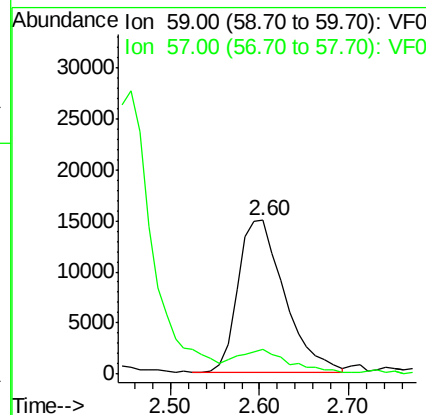
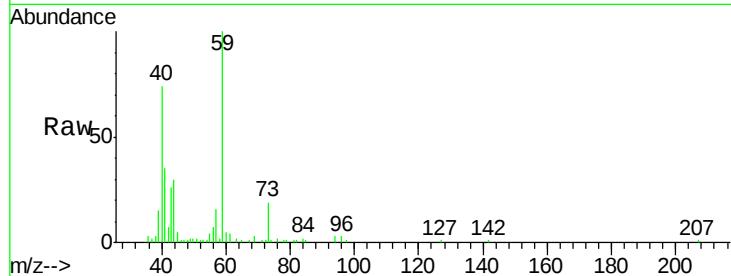
Tert butyl alcohol
Concen: 466.554 ug/l
RT: 2.60 min Scan# 200
Delta R.T. 0.01 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion: 59 Resp: 54159
Ion Ratio Lower Upper
59 100
57 16.0 11.0 16.4

Manual Integrations
APPROVED

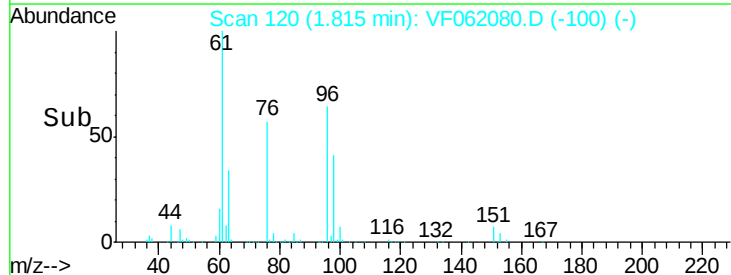
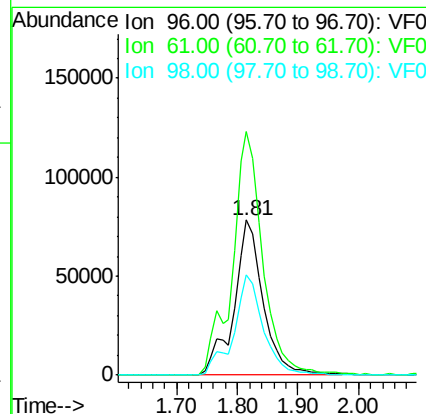
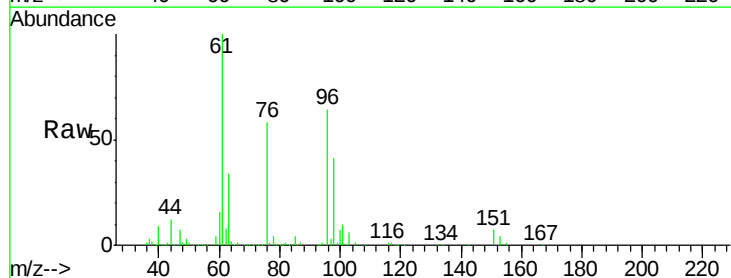
MMDadoda
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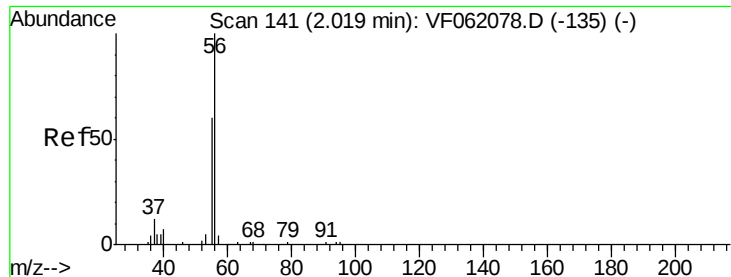


#12

1,1-Dichloroethene
Concen: 96.136 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion: 96 Resp: 262847
Ion Ratio Lower Upper
96 100
61 157.1 131.0 196.6
98 64.6 51.5 77.3





#13

Acrolein

Concen: 507.537 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 56 Resp: 71009

Ion Ratio Lower Upper

56 100

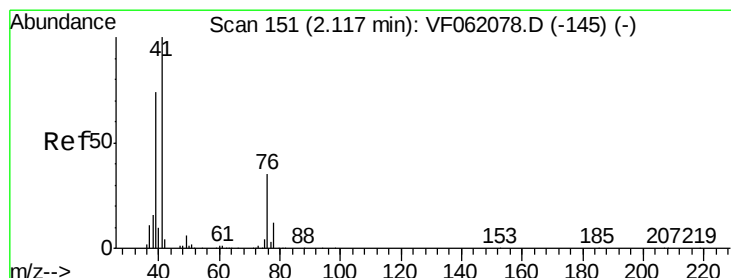
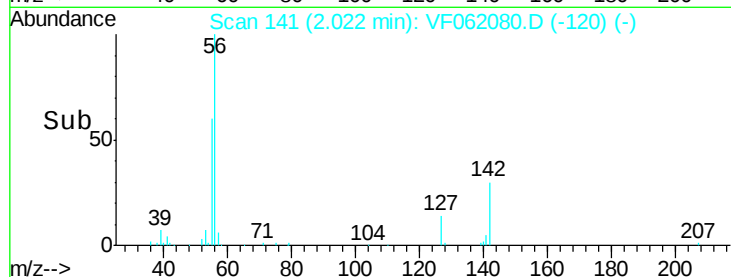
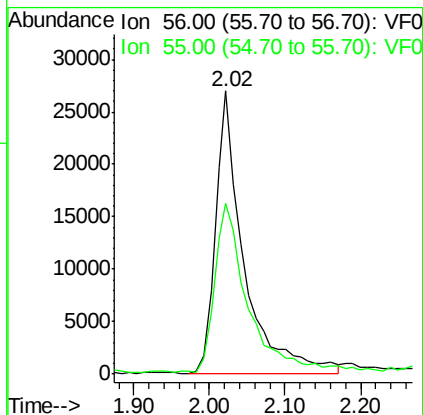
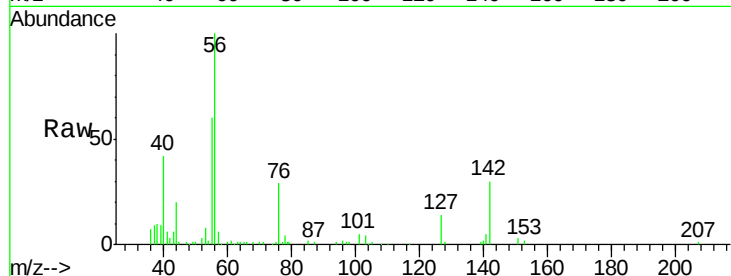
55 60.4 49.0 73.4

Manual Integrations

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MMDadoda

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#14

Allyl chloride

Concen: 96.804 ug/l

RT: 2.11 min Scan# 150

Delta R.T. -0.01 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

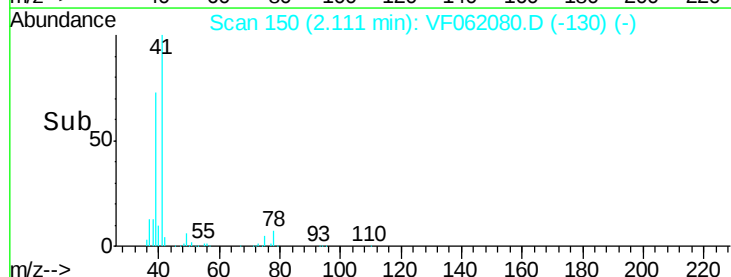
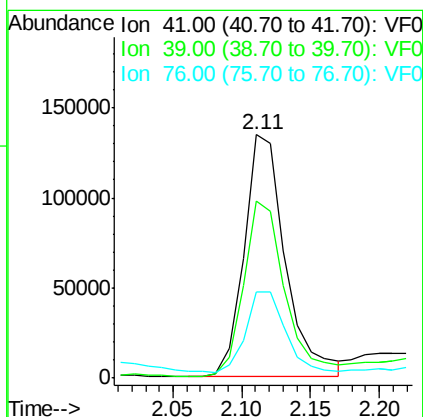
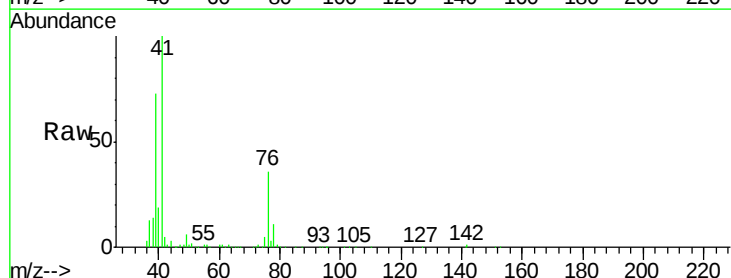
Tgt Ion: 41 Resp: 282578

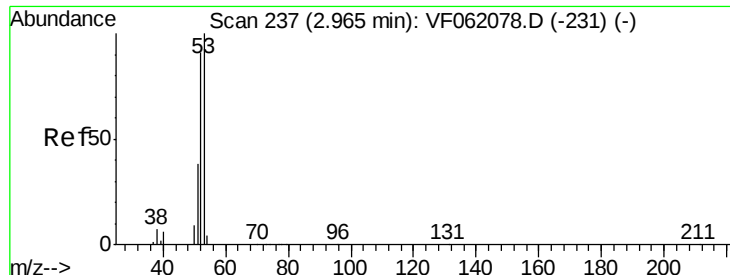
Ion Ratio Lower Upper

41 100

39 72.8 59.8 89.8

76 35.6 30.0 45.0





#15

Acrylonitrile

Concen: 490.729 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

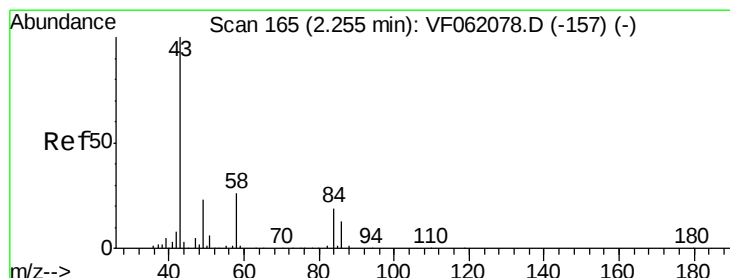
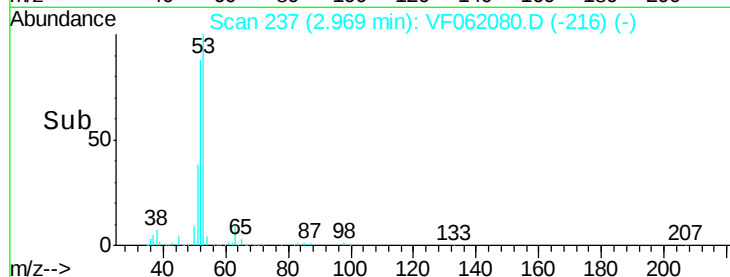
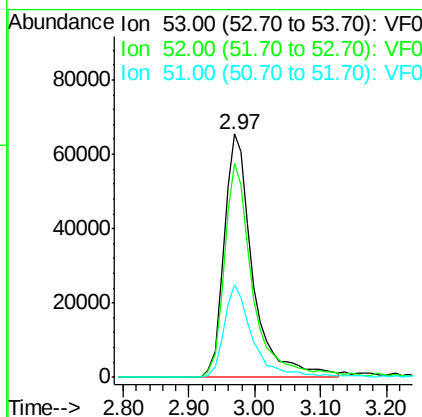
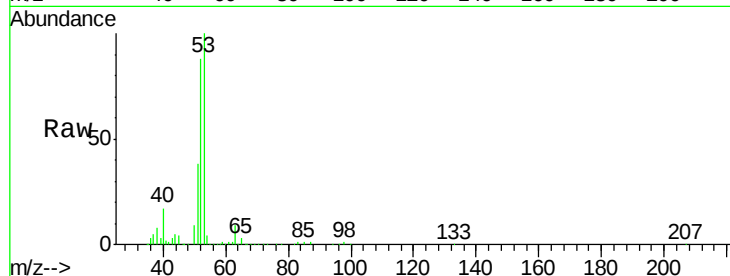
ClientSampleId :

VSTDIC100

Tot Ion:	53	Resp:	200317
Ion Ratio	Lower	Upper	
53	100		
52	87.8	72.3	108.5
51	38.1	30.4	45.6

Manual Integrations
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#16

Acetone

Concen: 505.143 ug/l

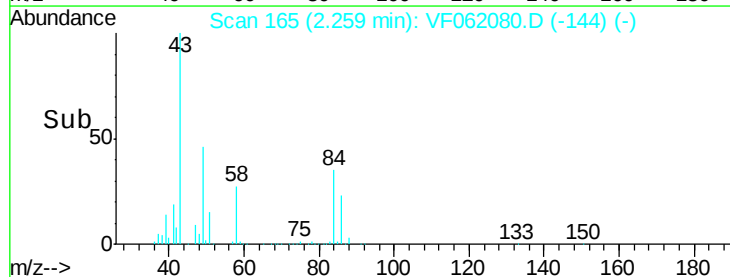
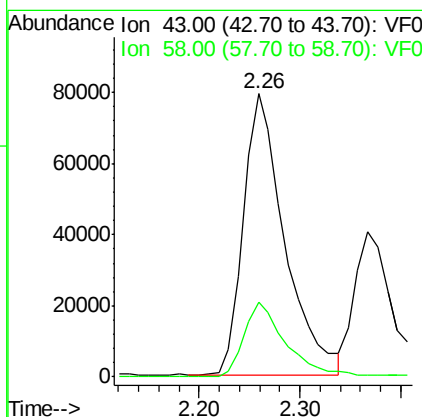
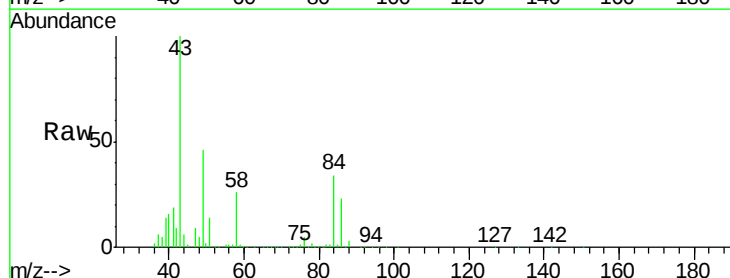
RT: 2.26 min Scan# 165

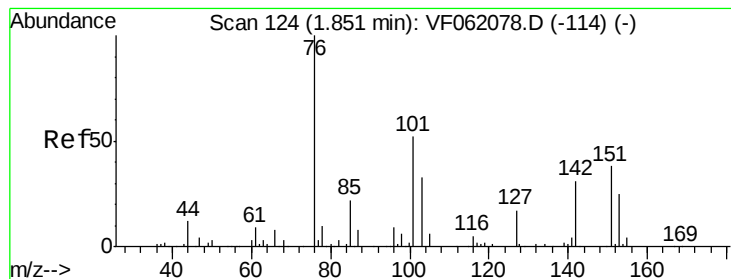
Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion:	43	Resp:	224300
Ion Ratio	Lower	Upper	
43	100		
58	26.2	20.8	31.2





#17

Carbon Disulfide

Concen: 102.446 ug/l m

RT: 1.85 min Scan# 124

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tot Ion: 76 Resp: 837241

Ion Ratio Lower Upper

76 100

78 10.6 7.9 11.9

Instrument :

MSVOA_F

ClientSampleId :

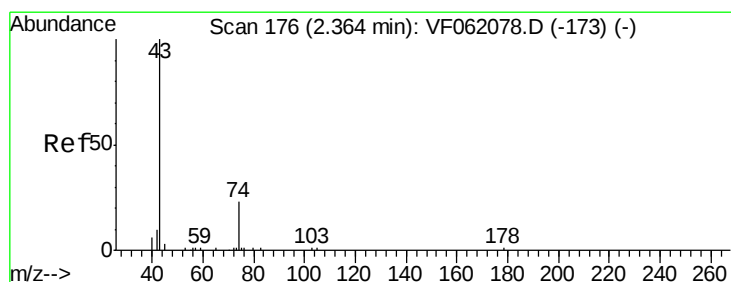
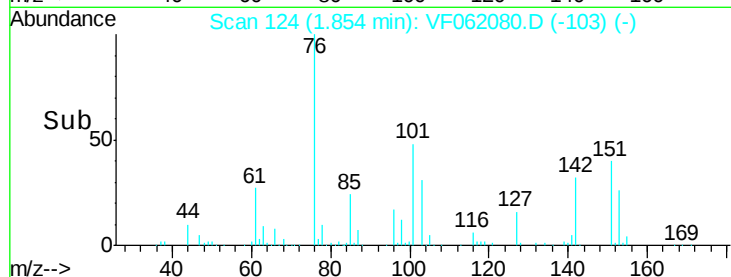
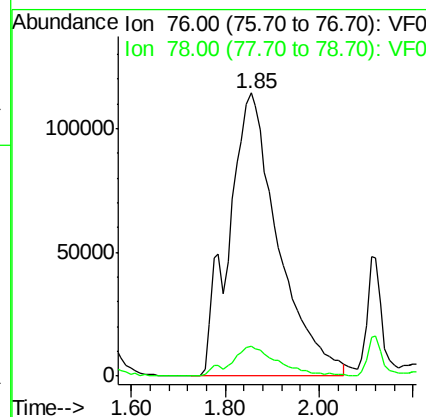
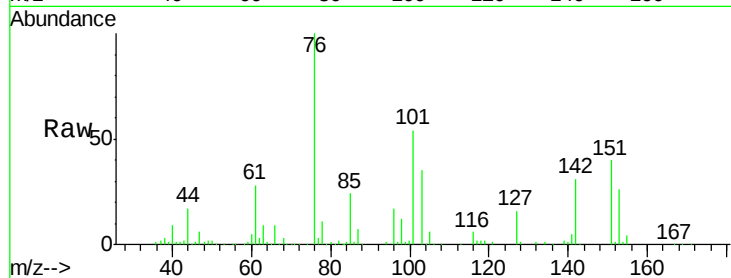
VSTDIC100

Manual Integrations

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#18

Methyl Acetate

Concen: 86.941 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.00 min

Lab File: VF062080.D

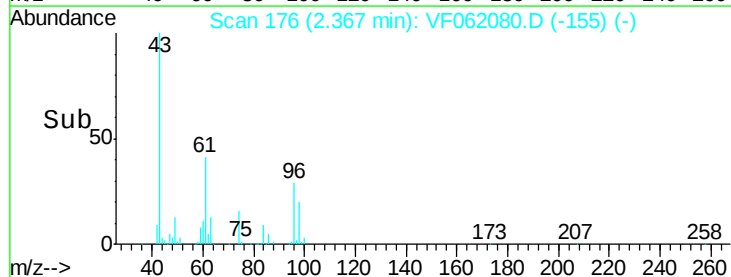
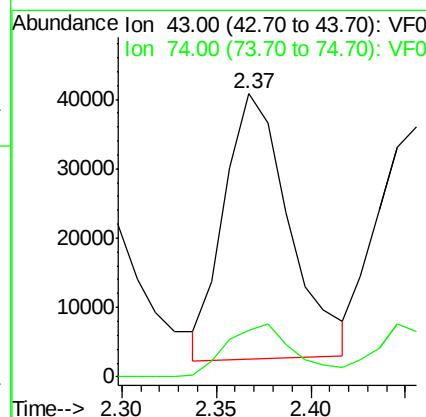
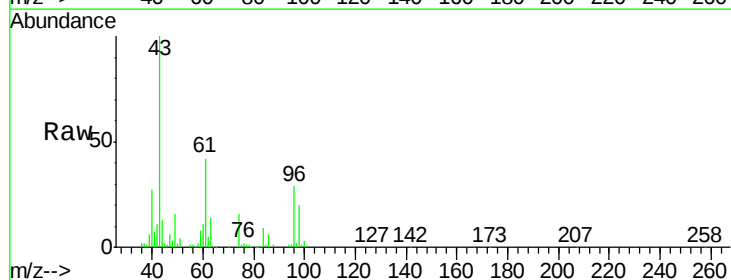
Acq: 22 Mar 2019 13:22

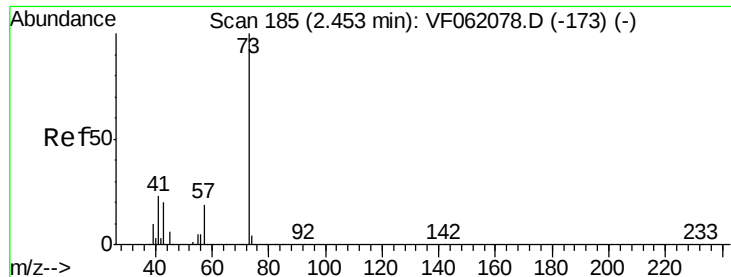
Tgt Ion: 43 Resp: 91450

Ion Ratio Lower Upper

43 100

74 16.5 16.3 24.5





#19

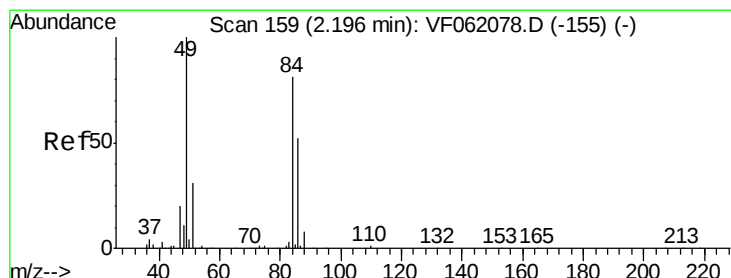
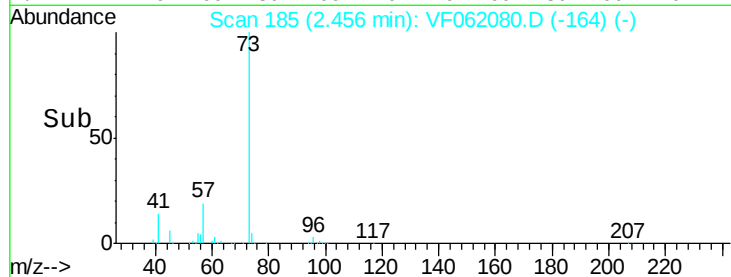
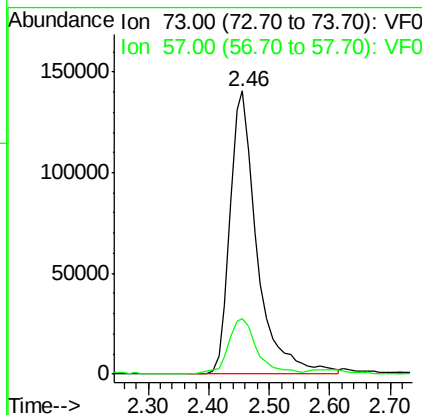
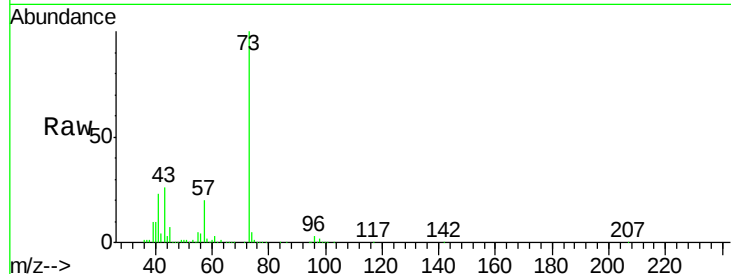
Methyl tert-butyl Ether
 Concen: 101.305 ug/l
 RT: 2.46 min Scan# 185
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
73	100		
57	19.7	15.1	22.7

Manual Integrations
 APPROVED

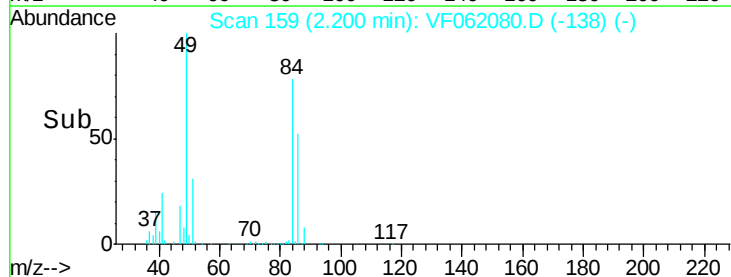
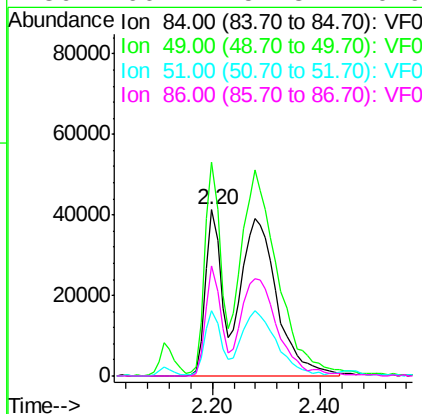
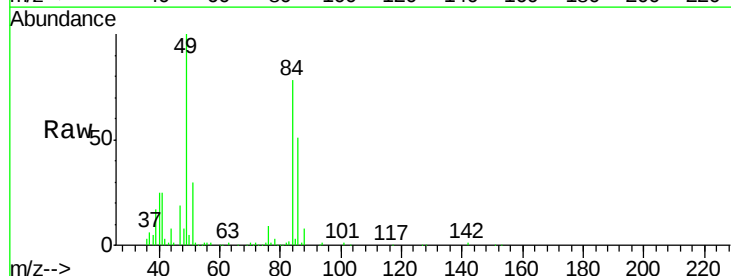
MMDadoda
 3/27/2019 11:57:13 AM

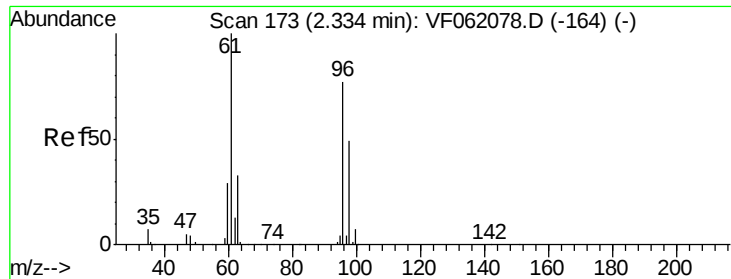


#20

Methylene Chloride
 Concen: 88.120 ug/l m
 RT: 2.20 min Scan# 159
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Lower	Upper
84	100		
49	128.7	100.4	150.6
51	39.2	31.0	46.6
86	66.1	51.3	76.9





#21

trans-1,2-Dichloroethene

Concen: 110.538 ug/l m

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 96 Resp: 280876

Ion Ratio Lower Upper

96 100

61 139.5 104.5 156.7

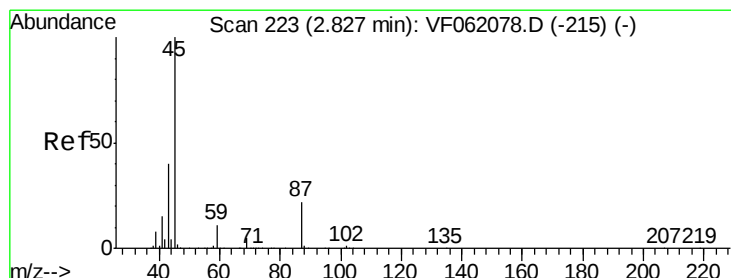
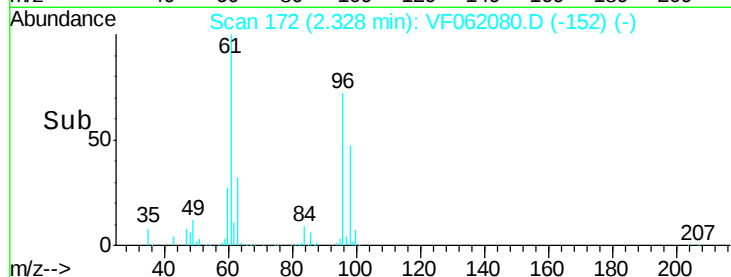
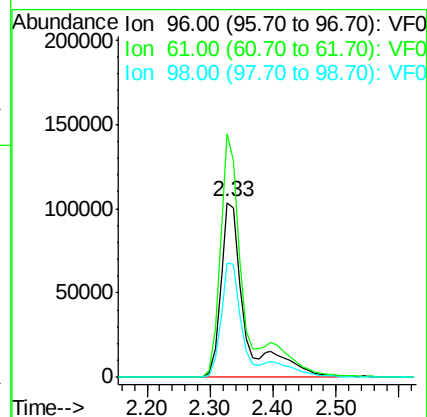
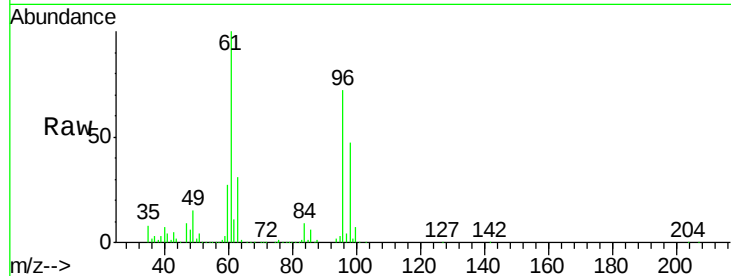
98 65.7 51.2 76.8

Manual Integrations

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MMDadoda

3/27/2019 11:57:13 AM



#22

Diisopropyl ether

Concen: 99.456 ug/l

RT: 2.83 min Scan# 223

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion: 45 Resp: 761171

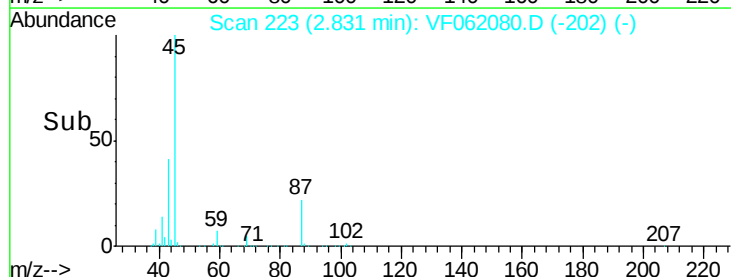
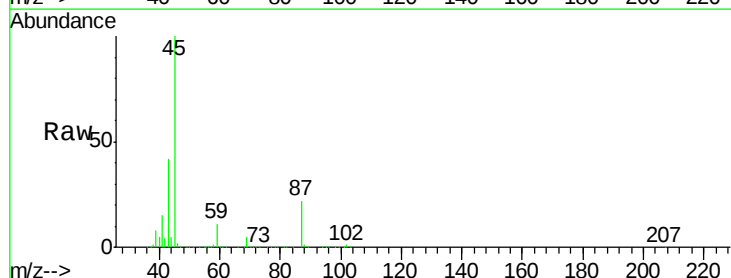
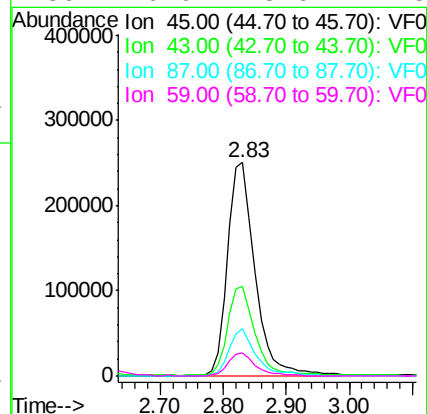
Ion Ratio Lower Upper

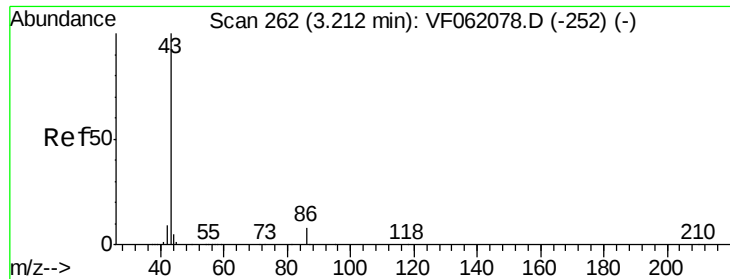
45 100

43 42.1 32.5 48.7

87 22.3 17.4 26.2

59 10.9 8.6 12.8





#23

Vinyl Acetate

Concen: 501.999 ug/l

RT: 3.22 min Scan# 262

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 1573014

Ion Ratio Lower Upper

43 100

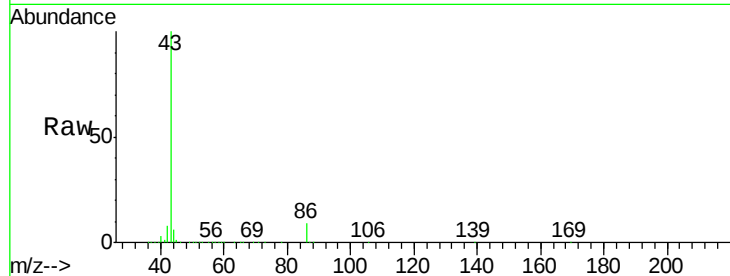
86 8.9 6.8 10.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.22

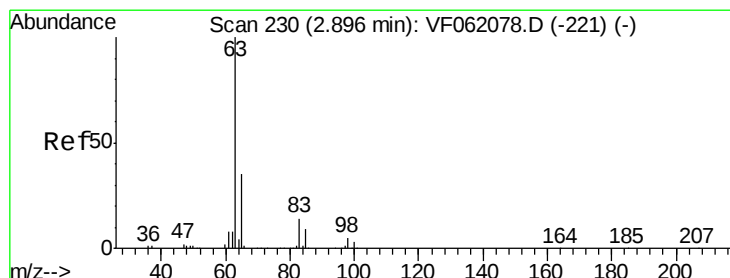
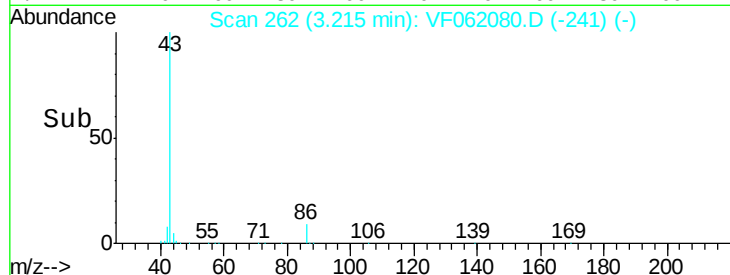
600000

400000

200000

0

Time-->



#24

1,1-Dichloroethane

Concen: 97.472 ug/l

RT: 2.90 min Scan# 230

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

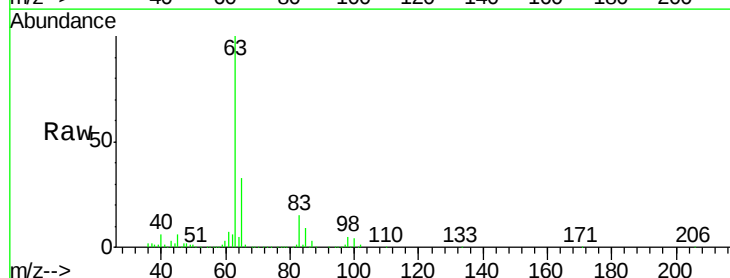
Tgt Ion: 63 Resp: 447353

Ion Ratio Lower Upper

63 100

98 5.4 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

2.90

200000

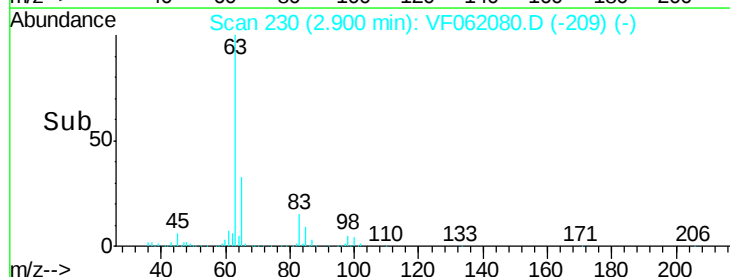
150000

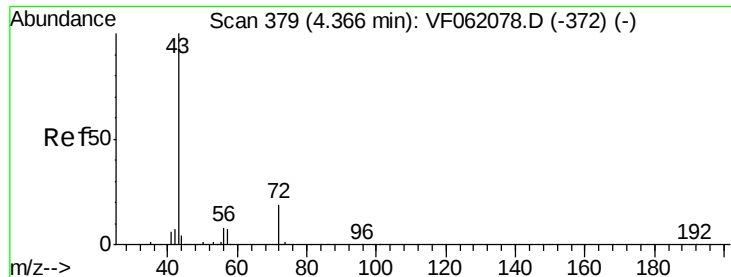
100000

50000

0

Time-->





#25

2-Butanone

Concen: 486.162 ug/l

RT: 4.37 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 450660

Ion Ratio Lower Upper

43 100

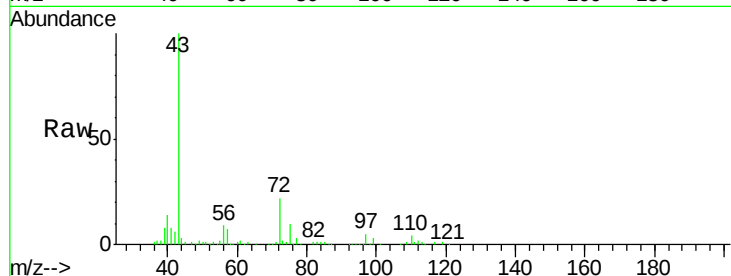
72 22.3 16.7 25.1

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

120000

100000

80000

60000

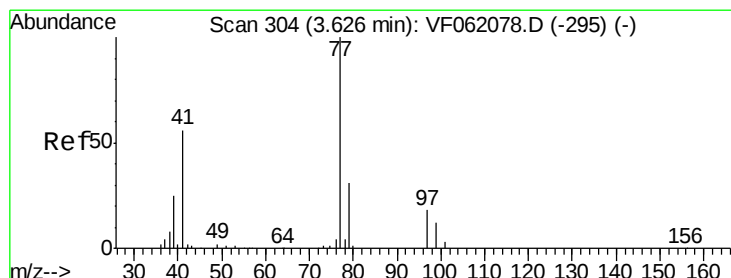
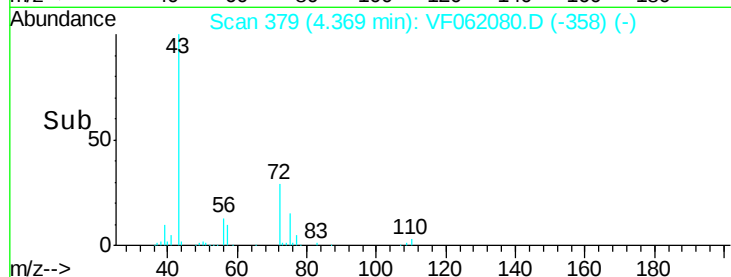
40000

20000

0

4.20 4.30 4.40 4.50 4.60

Time-->



#26

2,2-Dichloropropane

Concen: 98.203 ug/l

RT: 3.63 min Scan# 304

Delta R.T. 0.00 min

Lab File: VF062080.D

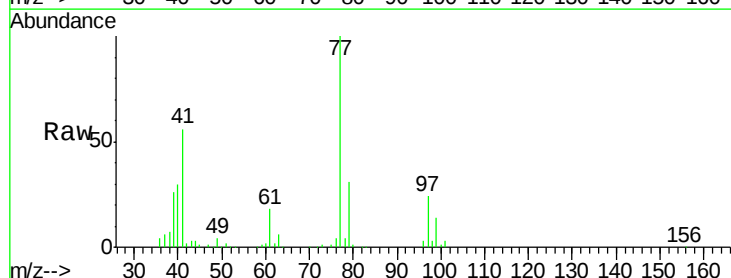
Acq: 22 Mar 2019 13:22

Tgt Ion: 77 Resp: 182742

Ion Ratio Lower Upper

77 100

97 23.6 10.3 30.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

60000

50000

40000

30000

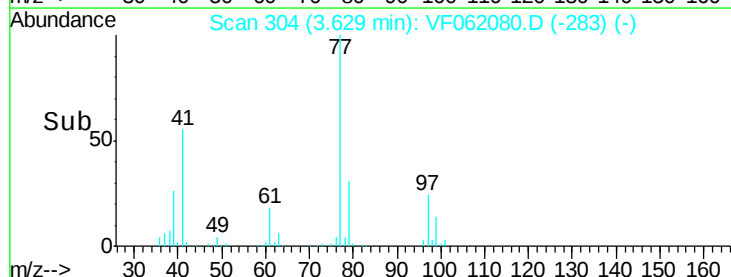
20000

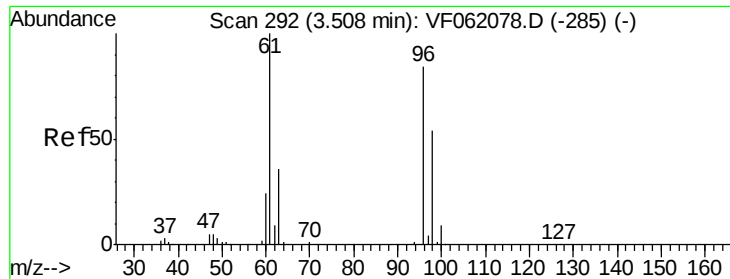
10000

0

3.50 3.60 3.70 3.80

Time-->





#27

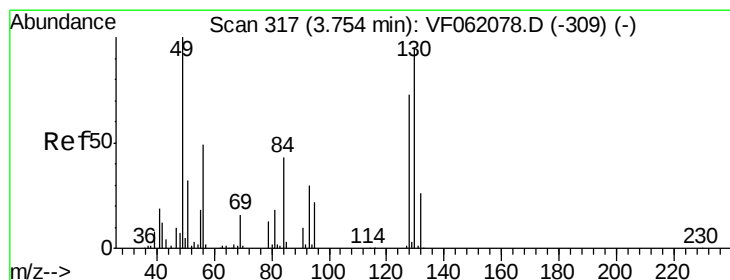
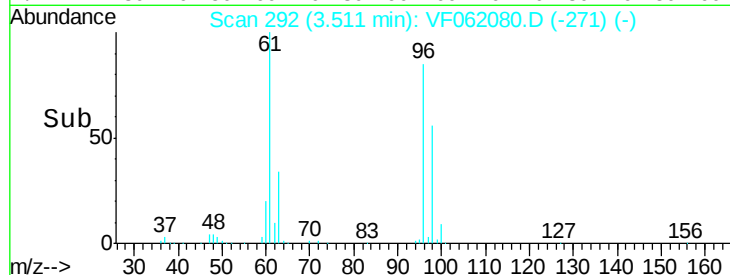
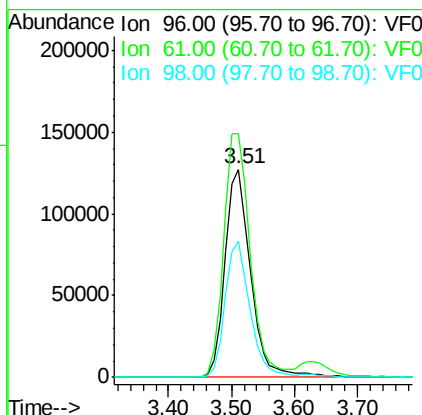
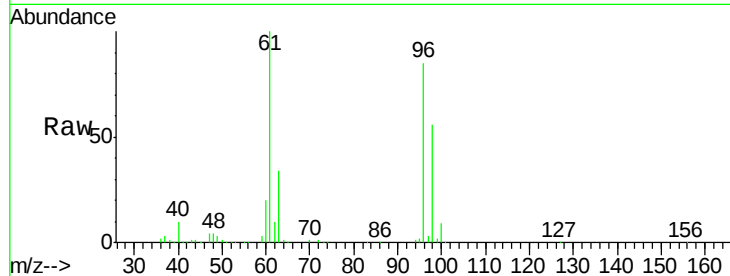
cis-1,2-Dichloroethene
Concen: 102.889 ug/l
RT: 3.51 min Scan# 292
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
96	100		
61	117.1	0.0	239.0
98	65.3	0.0	128.2

Manual Integrations
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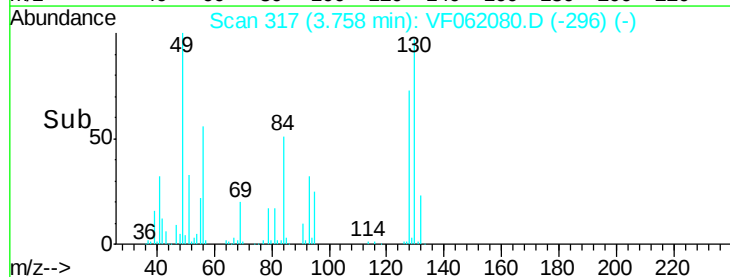
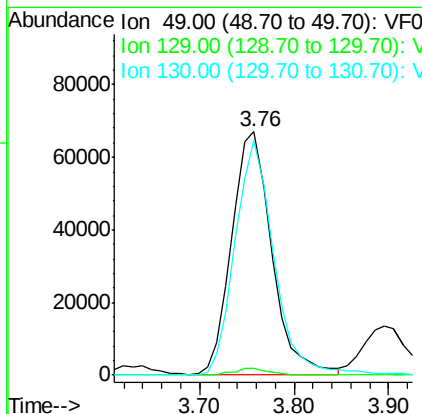
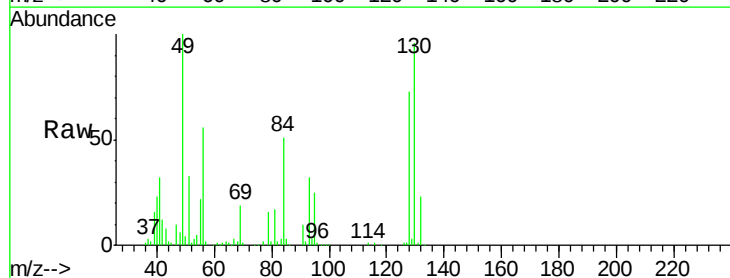
MMDadoda
3/27/2019 11:57:13 AM

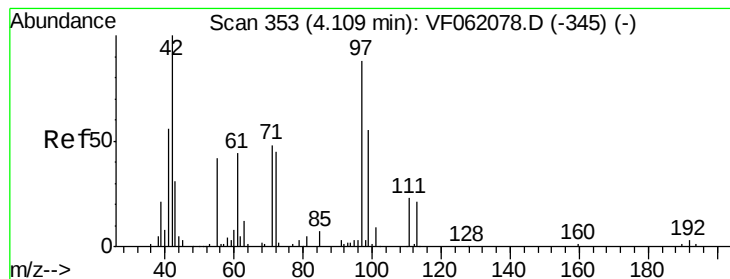


#28

Bromochloromethane
Concen: 104.863 ug/l
RT: 3.76 min Scan# 317
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	5.6
130	96.4	75.5	113.3





#29

Tetrahydrofuran

Concen: 480.852 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

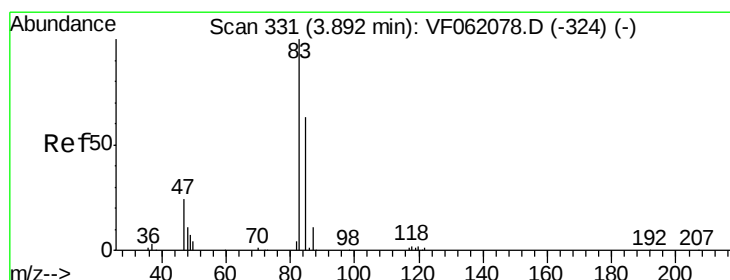
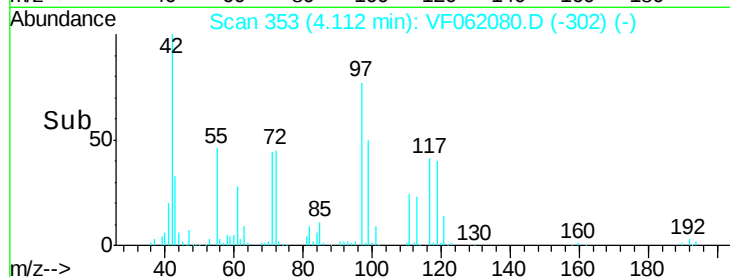
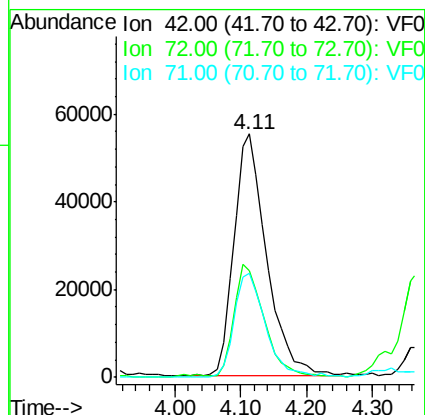
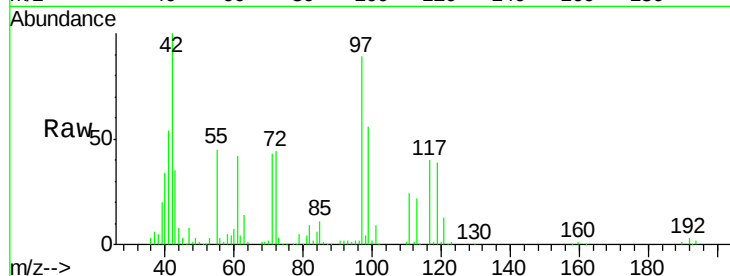
ClientSampleId :

VSTDIC100

Tot Ion:	42	Resp:	193800
Ion	Ratio	Lower	Upper
42	100		
72	42.8	33.3	49.9
71	41.7	35.0	52.4

Manual Integrations
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#30

Chloroform

Concen: 98.564 ug/l

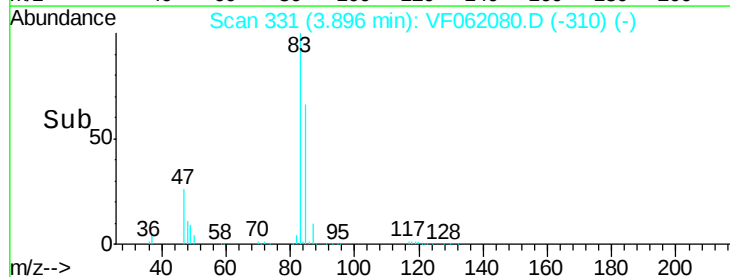
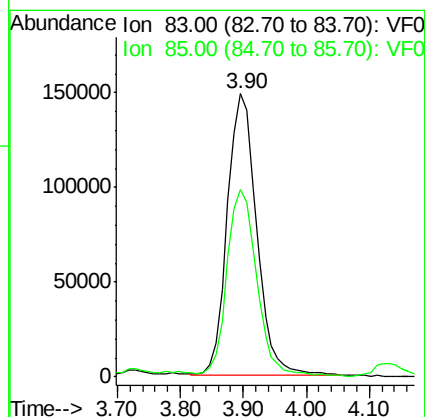
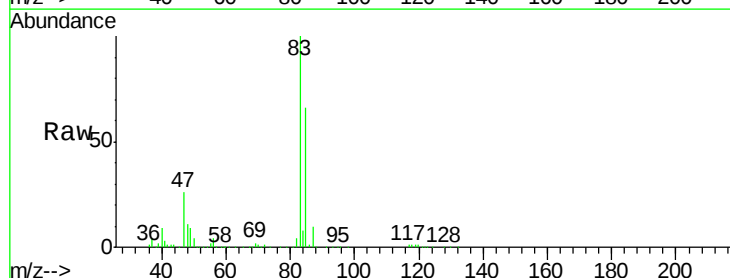
RT: 3.90 min Scan# 331

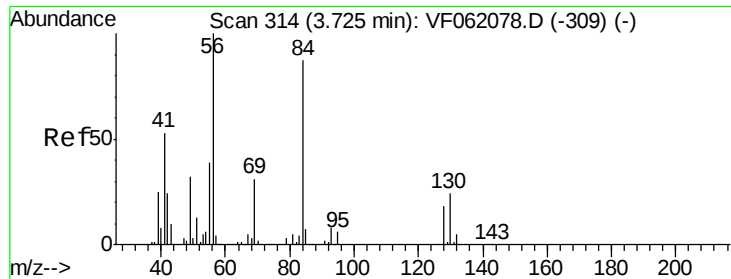
Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion:	83	Resp:	478071
Ion	Ratio	Lower	Upper
83	100		
85	66.2	51.5	77.3





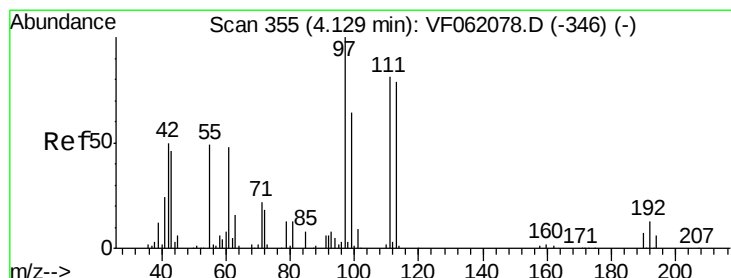
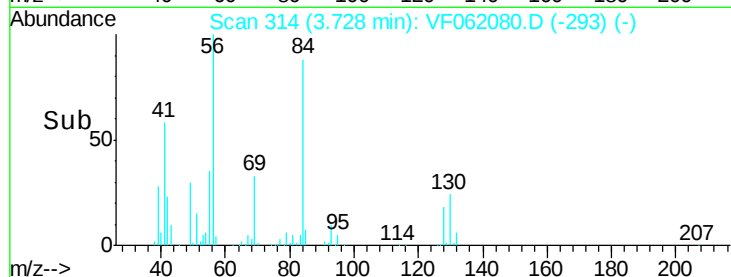
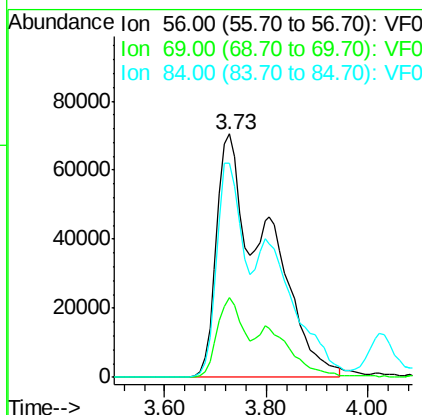
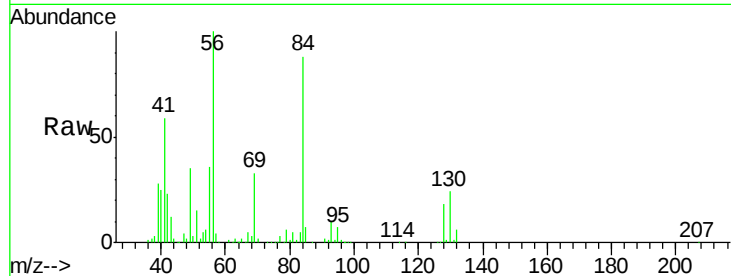
#31
Cyclohexane
Concen: 107.461 ug/l m
RT: 3.73 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.9	38.9
84	88.1	71.1	106.7

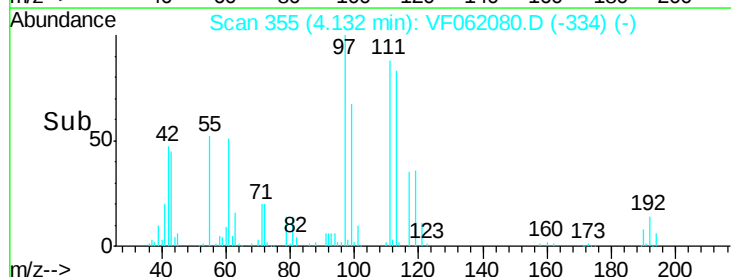
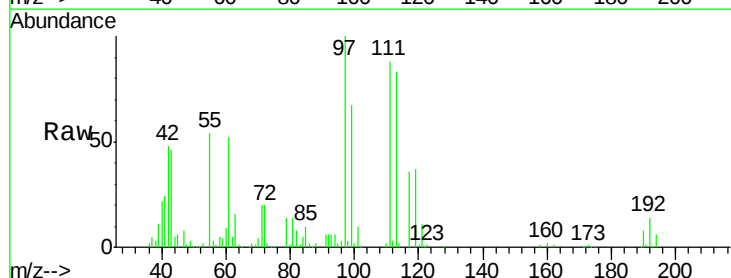
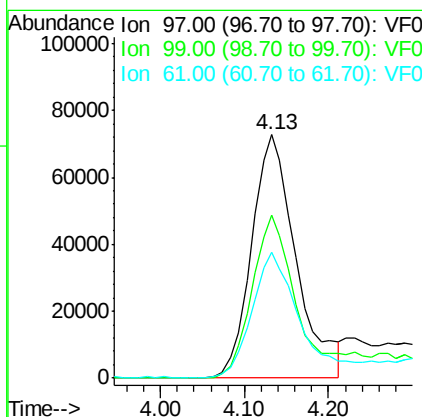
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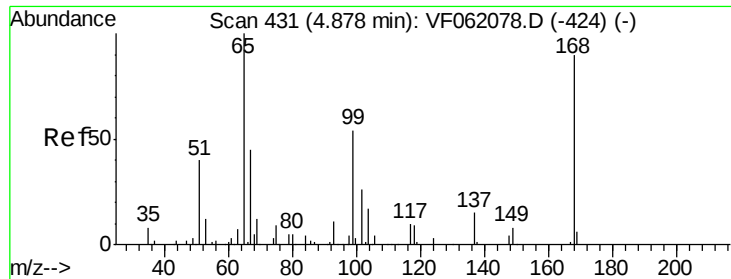
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#32
1,1,1-Trichloroethane
Concen: 91.308 ug/l
RT: 4.13 min Scan# 355
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.8	51.3	76.9
61	51.8	39.0	58.6





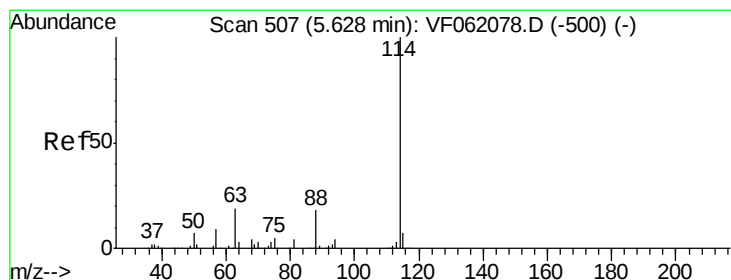
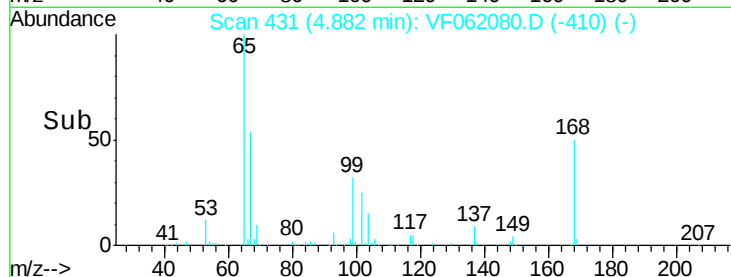
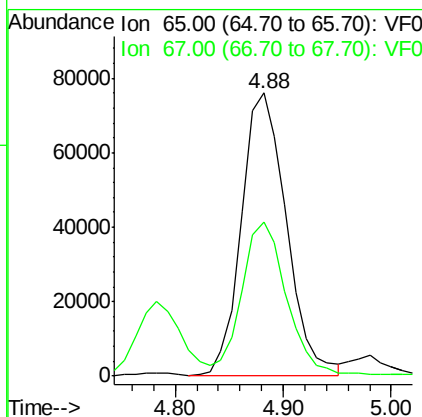
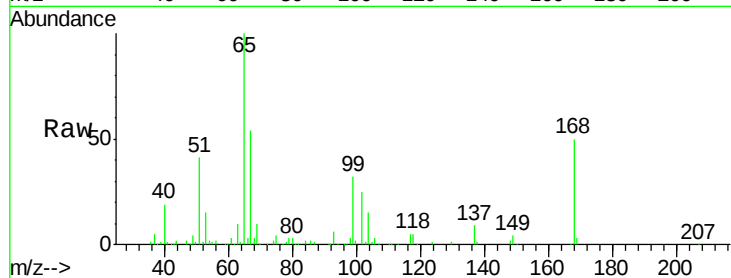
#33
 1,2-Dichloroethane-d4
 Concen: 103.735 ug/l
 RT: 4.88 min Scan# 431
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
65	100	218855		
67	54.3	0.0	106.2	

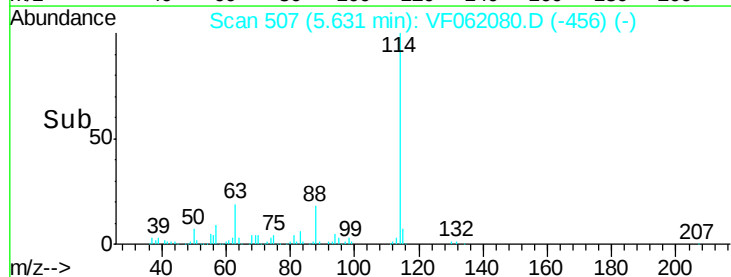
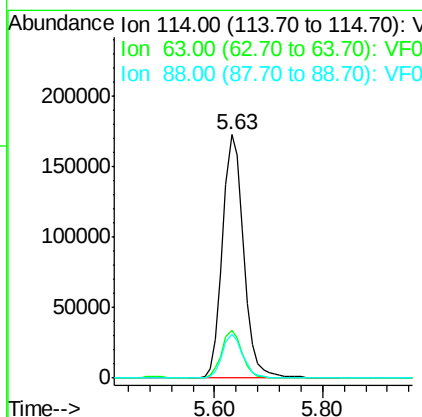
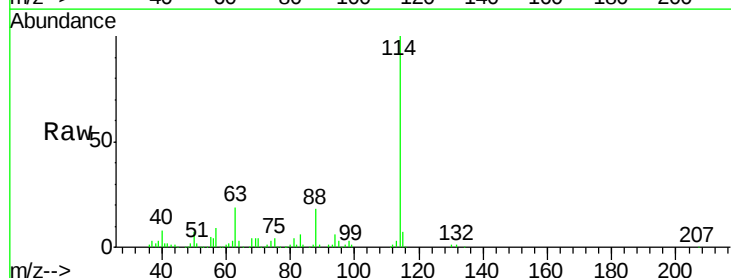
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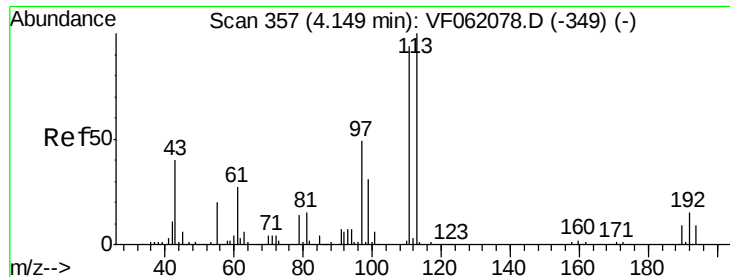
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	470921		
63	19.4	0.0	37.8	
88	18.0	0.0	36.4	





#35

Dibromofluoromethane

Concen: 95.352 ug/l

RT: 4.15 min Scan# 357

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

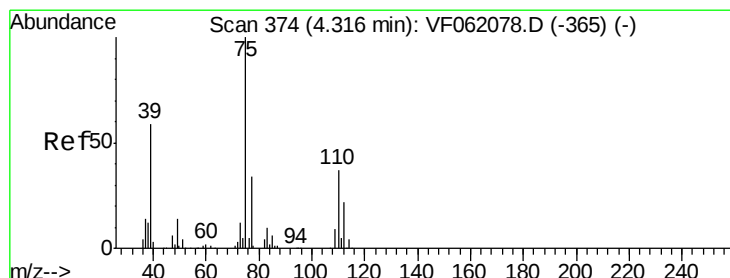
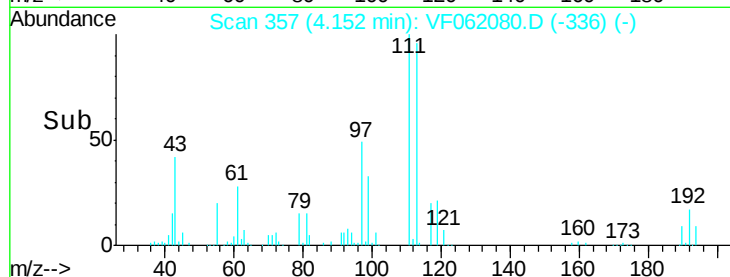
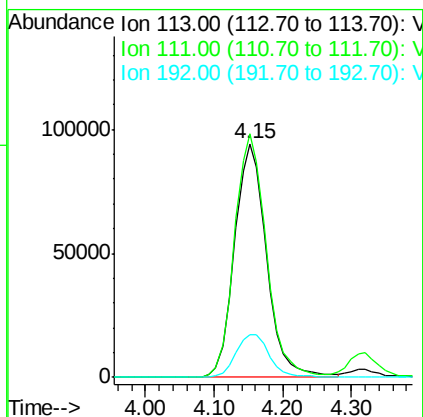
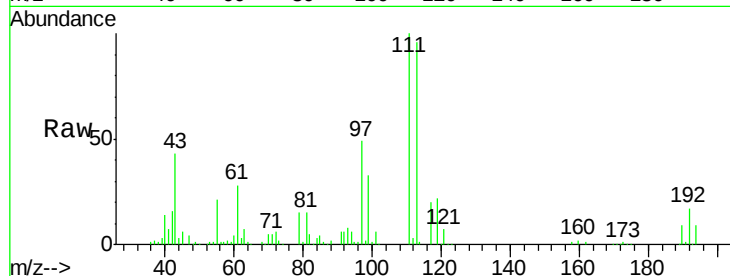
ClientSampled :

VSTDIC100

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	75.4	113.0
192	18.0	12.3	18.5

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 94.209 ug/l

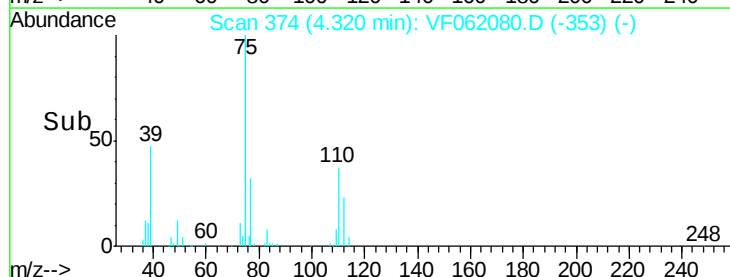
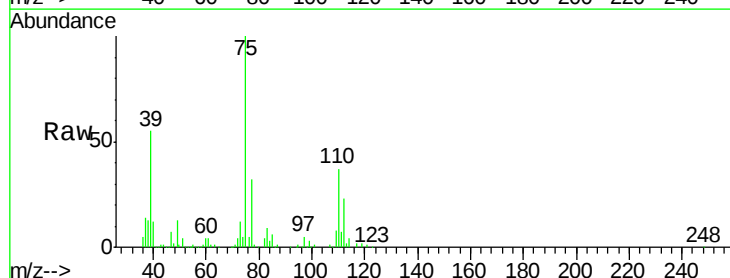
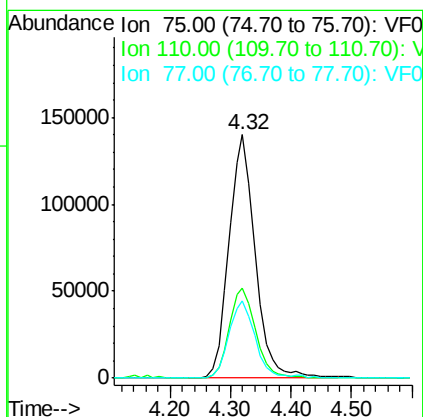
RT: 4.32 min Scan# 374

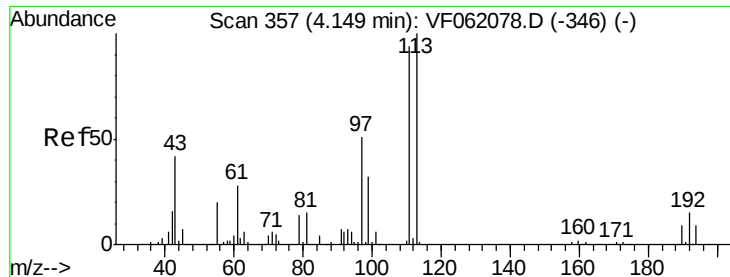
Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.0	18.5	55.5
77	31.9	27.4	41.0





#37

Ethyl Acetate

Concen: 86.779 ug/l

RT: 4.15 min Scan# 357

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

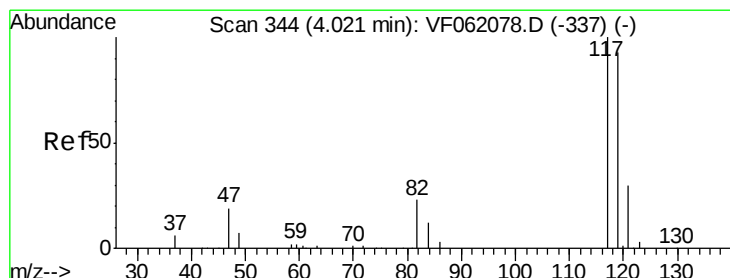
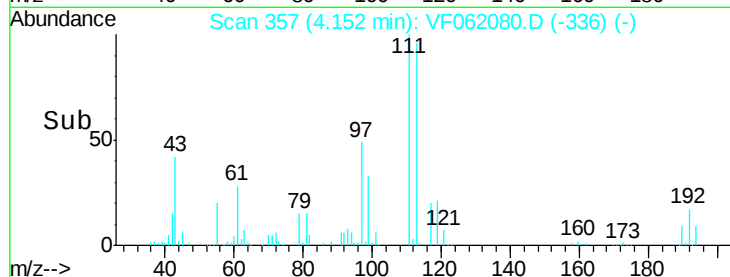
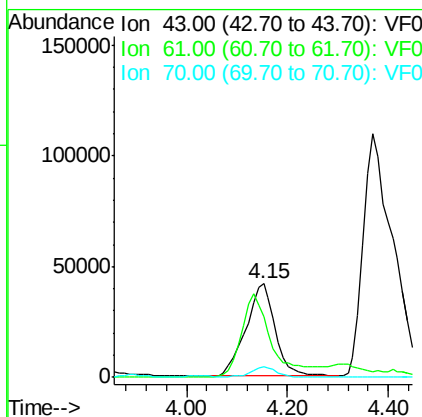
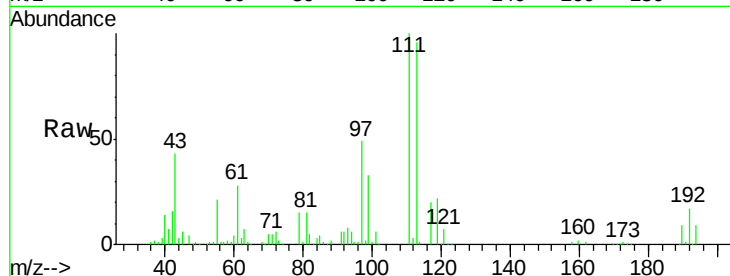
ClientSampleId :

VSTDIC100

Tot Ion:	43	Resp:	170112
Ion	Ratio	Lower	Upper
43	100		
61	65.3	53.6	80.4
70	11.1	9.0	13.6

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#38

Carbon Tetrachloride

Concen: 92.900 ug/l

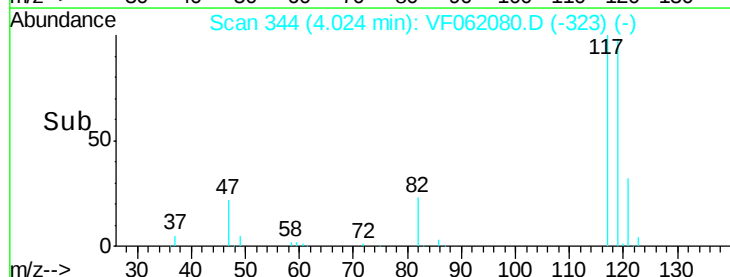
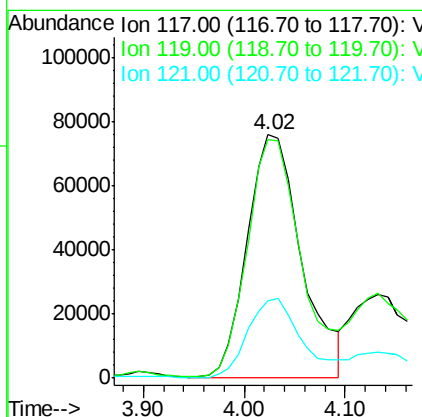
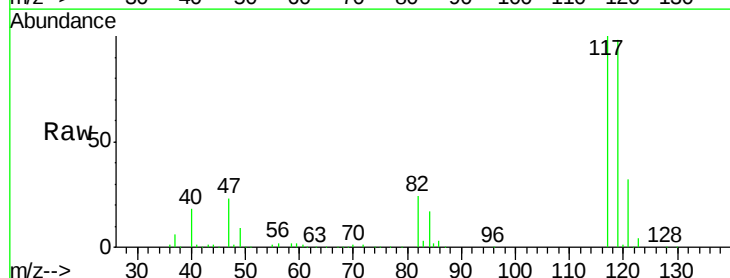
RT: 4.02 min Scan# 344

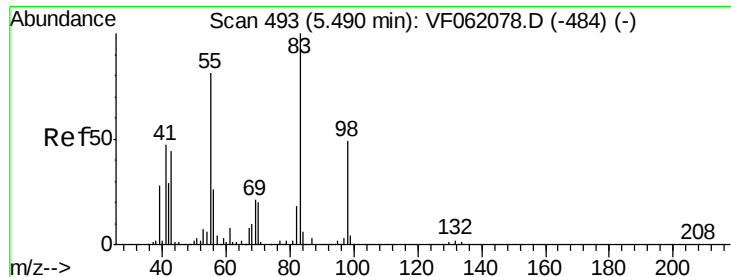
Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion:	117	Resp:	284013
Ion	Ratio	Lower	Upper
117	100		
119	98.2	74.7	112.1
121	31.8	23.6	35.4





#39

Methvlcvclohexane

Concen: 96.054 ug/l

RT: 5.48 min Scan# 492

Delta R.T. -0.01 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

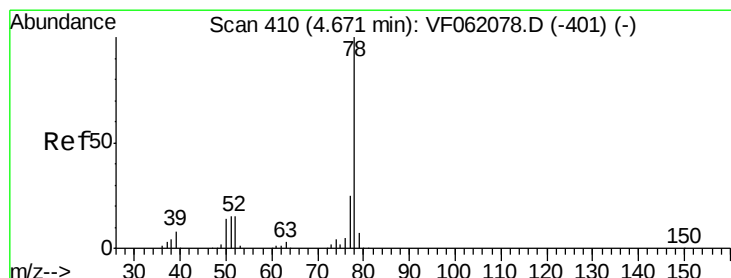
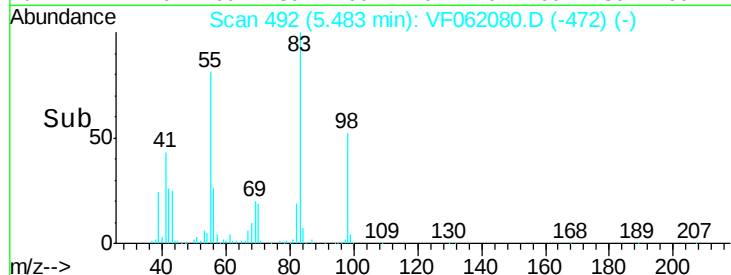
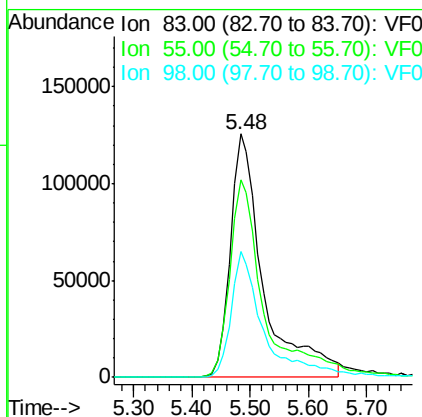
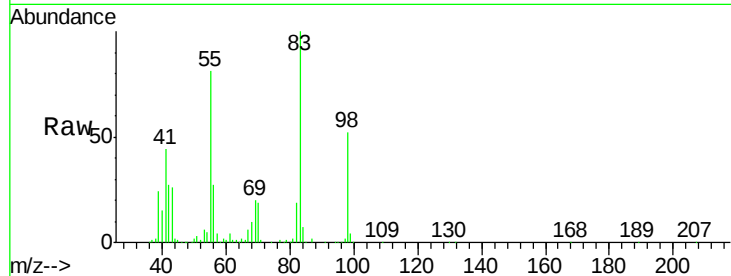
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	500049
Ion Ratio	Lower	Upper	
83	100		
55	80.9	64.5	96.7
98	51.7	39.1	58.7

Manual Integrations
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#40

Benzene

Concen: 92.076 ug/l

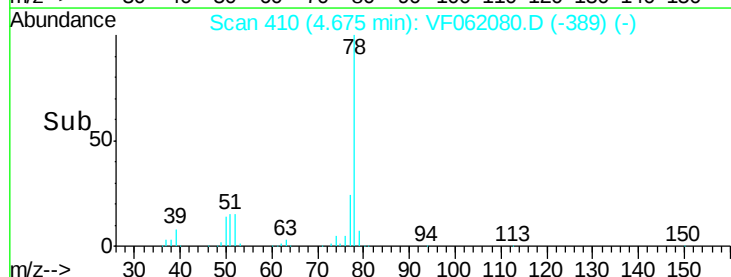
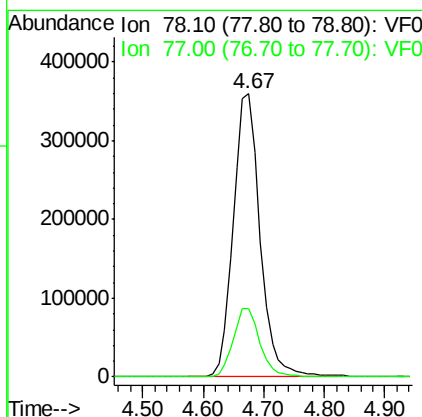
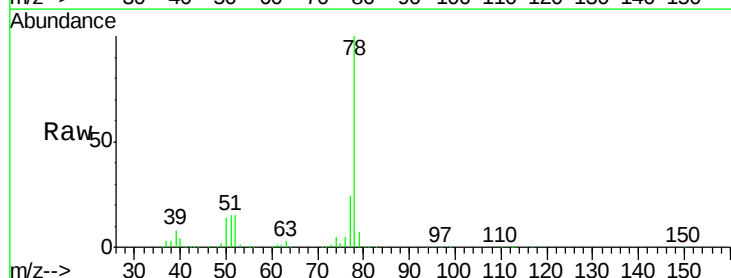
RT: 4.67 min Scan# 410

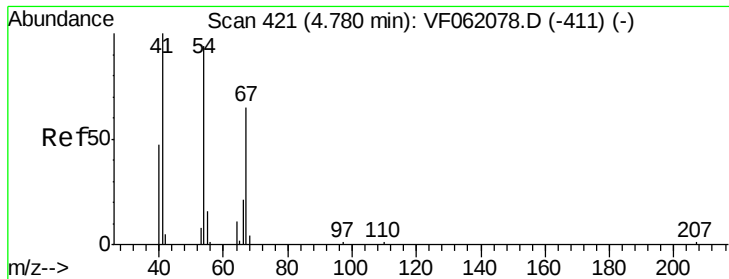
Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion:	78	Resp:	1107194
Ion Ratio	Lower	Upper	
78	100		
77	24.2	19.8	29.6





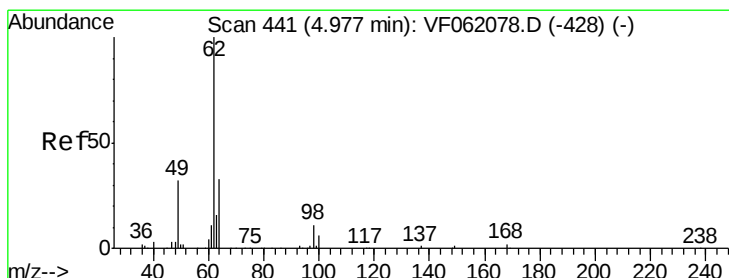
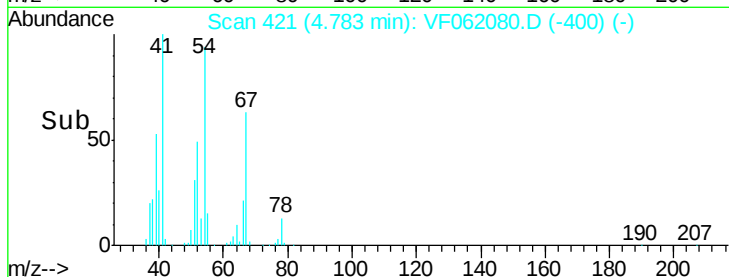
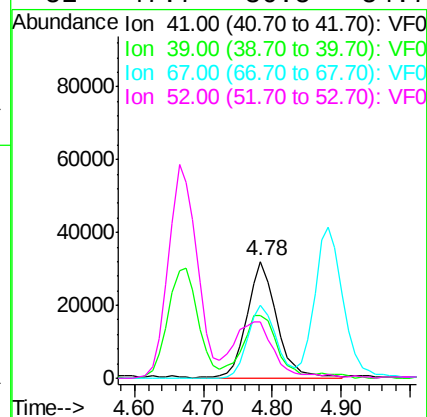
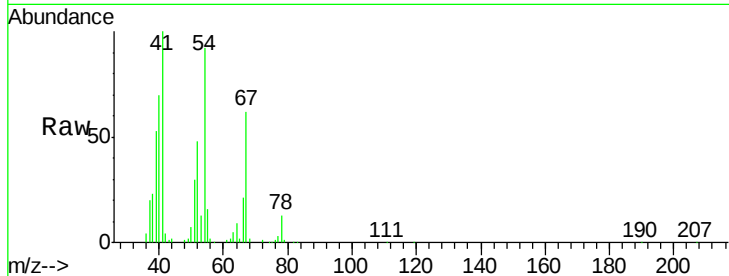
#41
Methacrylonitrile
Concen: 93.027 ug/l
RT: 4.78 min Scan# 421
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.1	43.5	65.3	
67	62.1	51.6	77.4	
52	47.7	36.5	54.7	

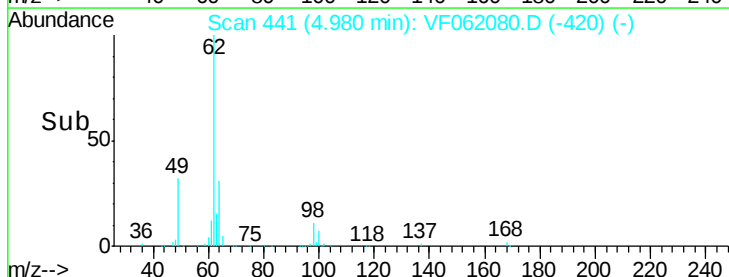
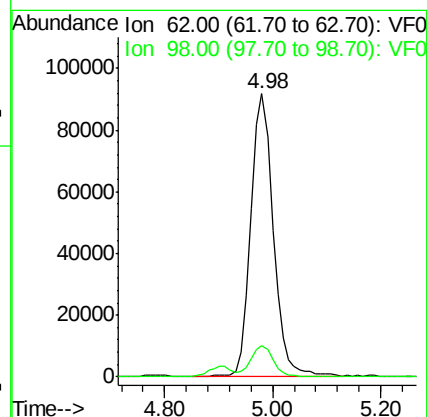
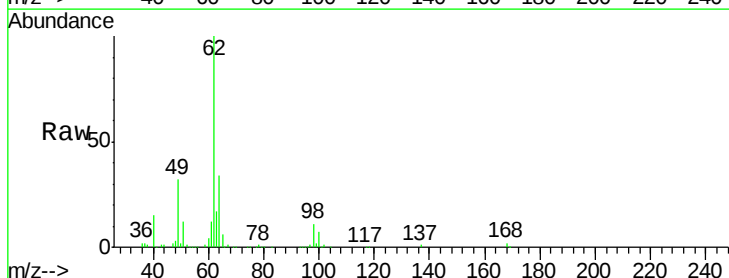
Manual Integrations
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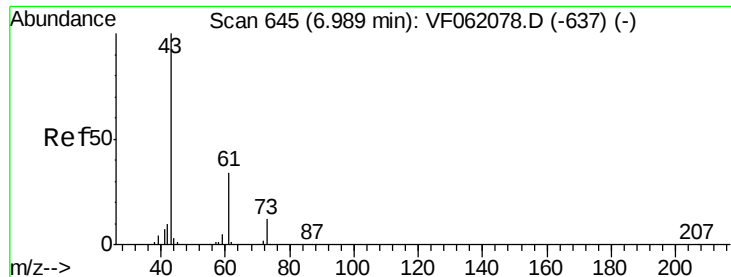
MMDadoda
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#42
1,2-Dichloroethane
Concen: 93.793 ug/l
RT: 4.98 min Scan# 441
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.9	0.0	23.2	





#43

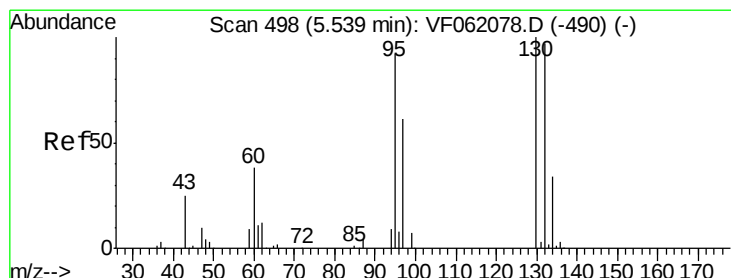
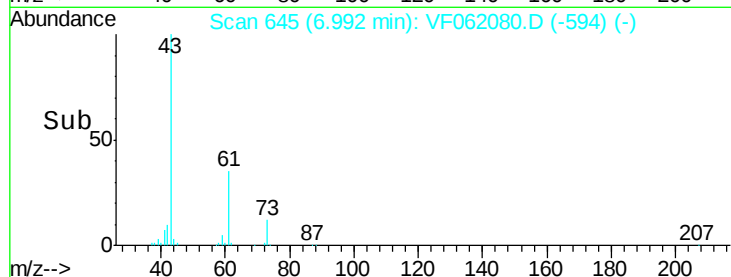
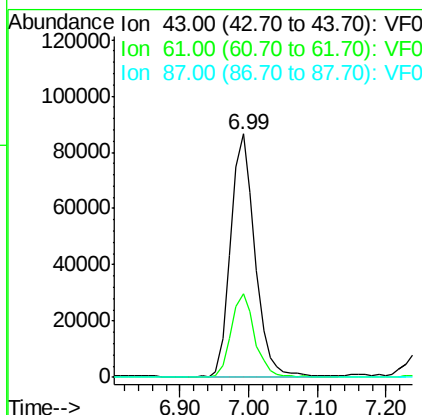
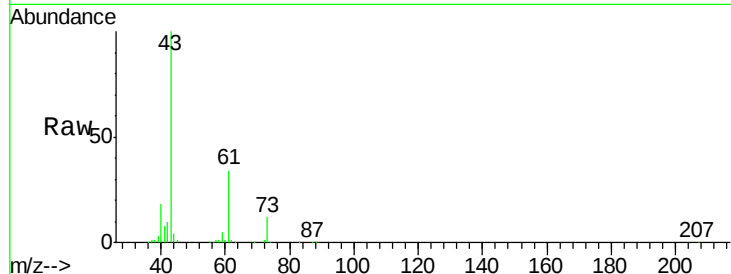
Isopropyl Acetate
 Concen: 89.010 ug/l
 RT: 6.99 min Scan# 645
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
43	100		
61	34.4	27.0	40.4
87	0.3	0.4	0.6

Manual Integrations
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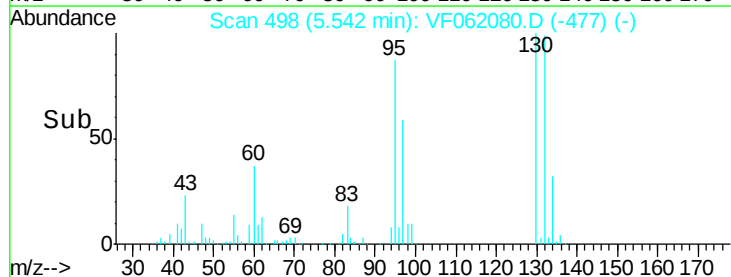
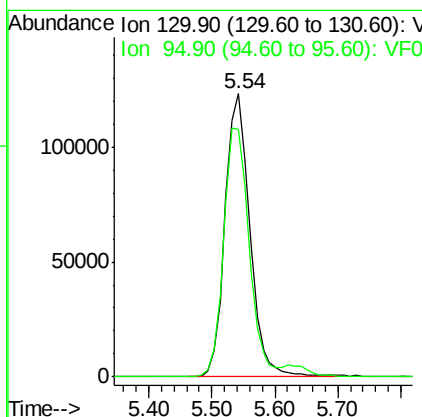
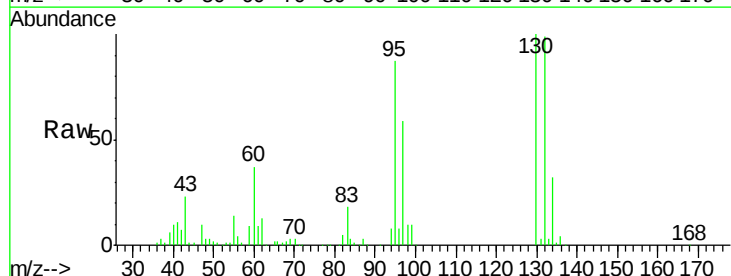
MMDadoda
 3/27/2019 11:57:13 AM

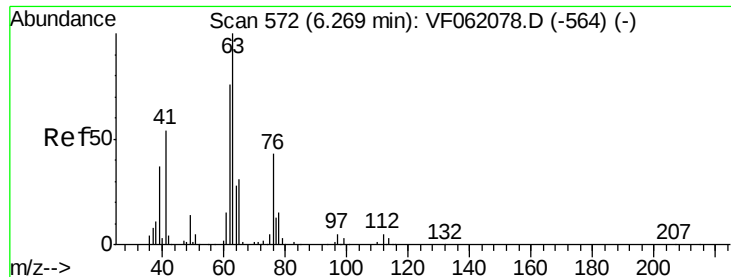


#44

Trichloroethene
 Concen: 91.594 ug/l
 RT: 5.54 min Scan# 498
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	87.3	0.0	183.4





#45

1,2-Dichloropropane

Concen: 94.270 ug/l

RT: 6.27 min Scan# 572

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 63 Resp: 270369

Ion Ratio Lower Upper

63 100

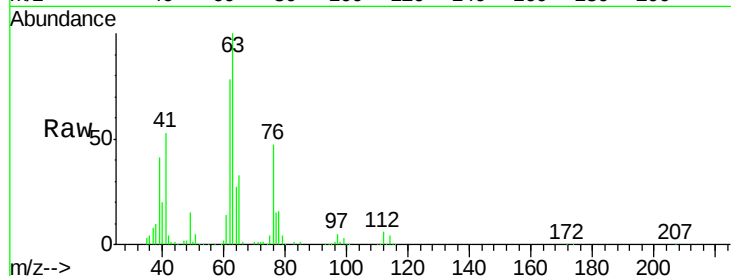
65 32.5 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

3/27/2019 11:57:13 AM



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.27

100000

80000

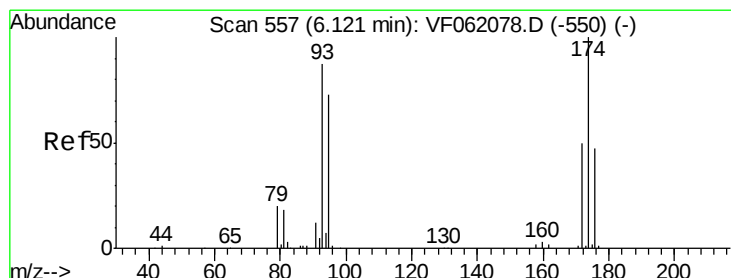
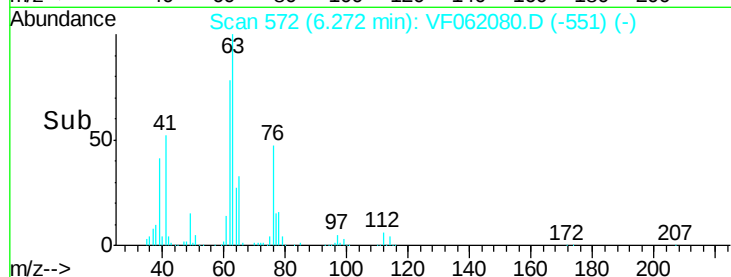
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 95.295 ug/l

RT: 6.12 min Scan# 557

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

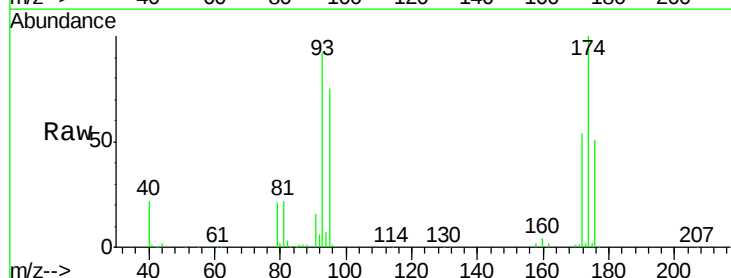
Tgt Ion: 93 Resp: 167109

Ion Ratio Lower Upper

93 100

95 81.4 67.4 101.2

174 108.2 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

6.12

80000

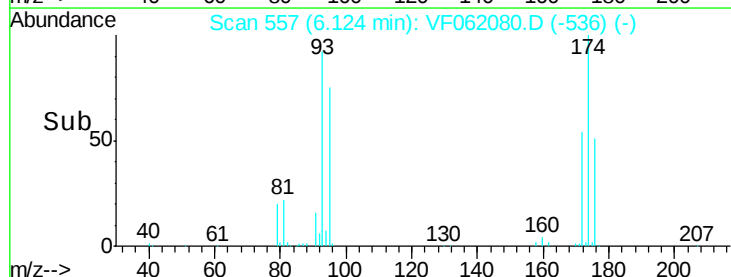
60000

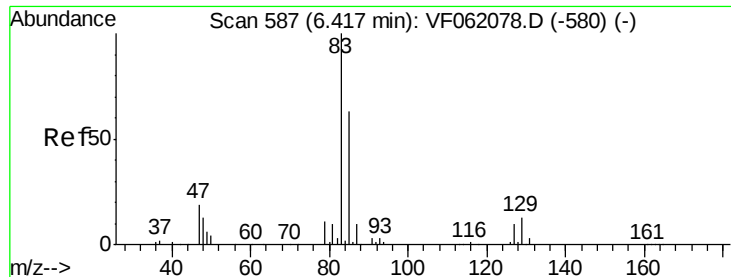
40000

20000

0

Time-->





#47

Bromodichloromethane

Concen: 97.533 ug/l

RT: 6.42 min Scan# 587

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

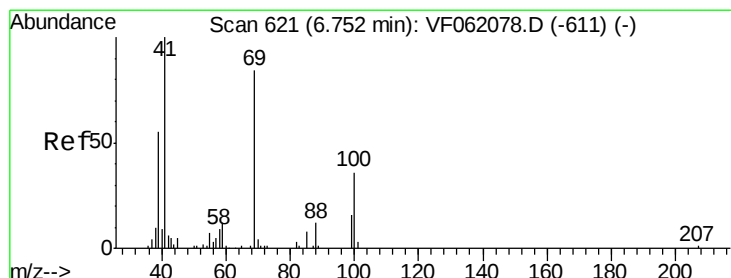
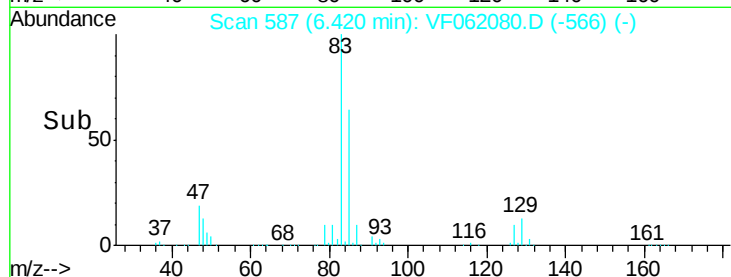
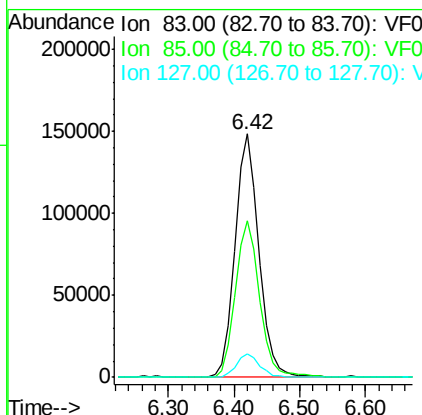
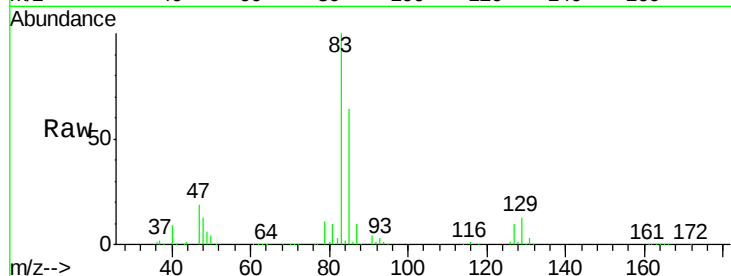
ClientSampleId :

VSTDIC100

Tot Ion:	83	Resp:	378840
Ion	Ratio	Lower	Upper
83	100		
85	64.2	50.7	76.1
127	9.5	7.8	11.6

Manual Integrations
APPROVED

MMDadoda
3/27/2019 11:57:13 AM



#48

Methyl methacrylate

Concen: 97.290 ug/l

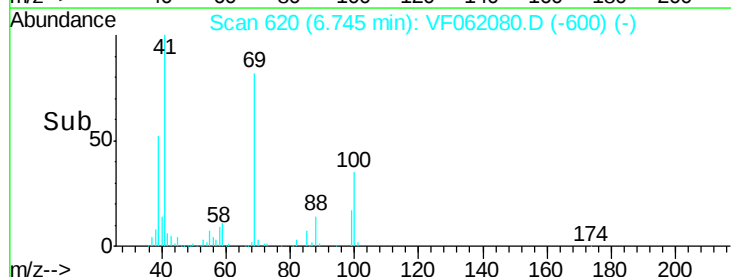
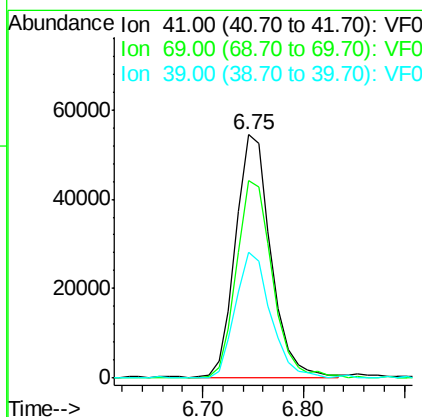
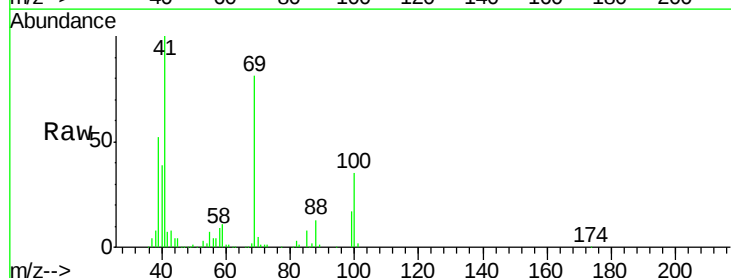
RT: 6.75 min Scan# 620

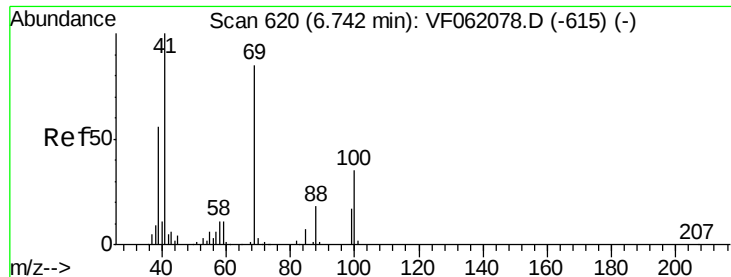
Delta R.T. -0.01 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion:	41	Resp:	131507
Ion	Ratio	Lower	Upper
41	100		
69	80.9	66.6	100.0
39	51.7	43.6	65.4





#49

1,4-Dioxane

Concen: 2032.840 ug/l

RT: 6.74 min Scan# 619

Delta R.T. -0.01 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

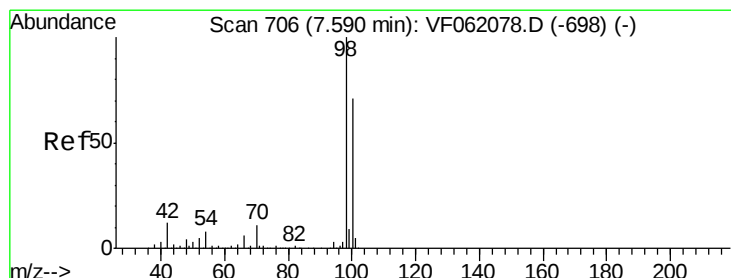
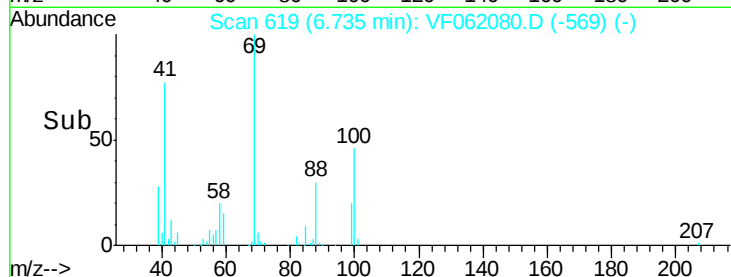
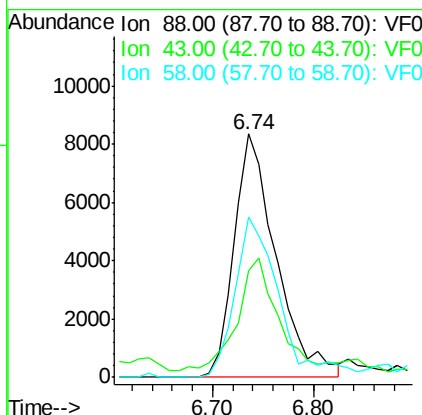
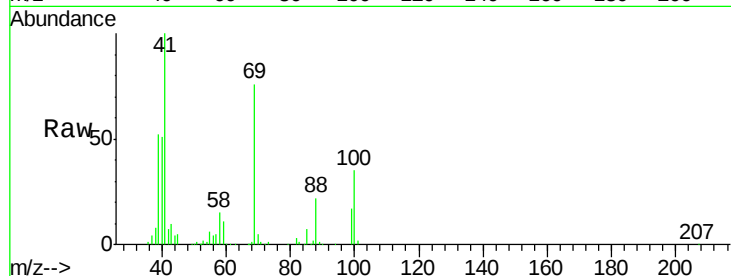
ClientSampleId :

VSTDIC100

Tot Ion:	88	Resp:	24111
Ion	Ratio	Lower	Upper
88	100		
43	43.9	35.0	52.4
58	65.9	49.9	74.9

Manual Integrations
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#50

Toluene-d8

Concen: 92.538 ug/l

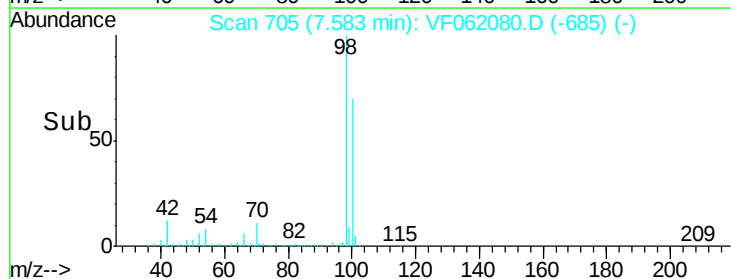
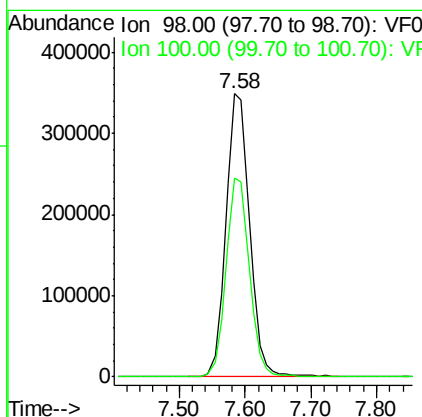
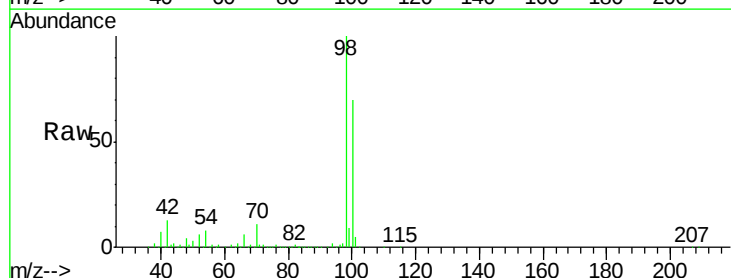
RT: 7.58 min Scan# 705

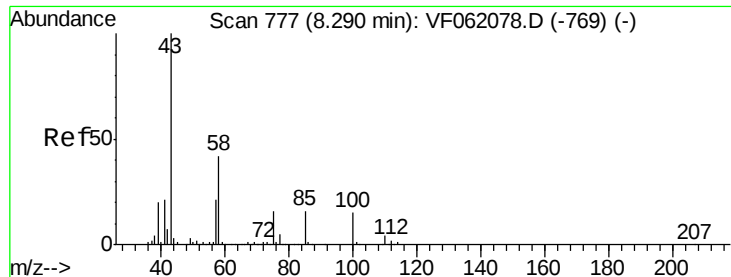
Delta R.T. -0.01 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion:	98	Resp:	879953
Ion	Ratio	Lower	Upper
98	100		
100	70.5	57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 424.675 ug/l

RT: 8.29 min Scan# 777

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 43 Resp: 674793

Ion Ratio Lower Upper

43 100

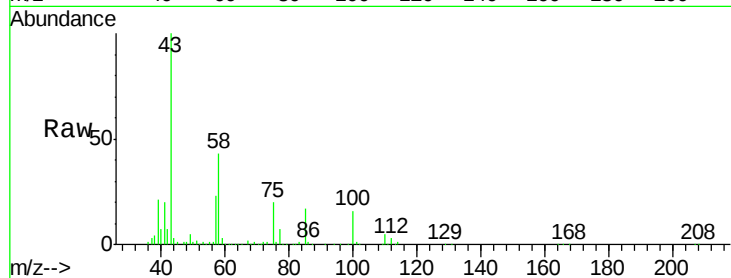
58 43.1 33.8 50.8

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.29

250000

200000

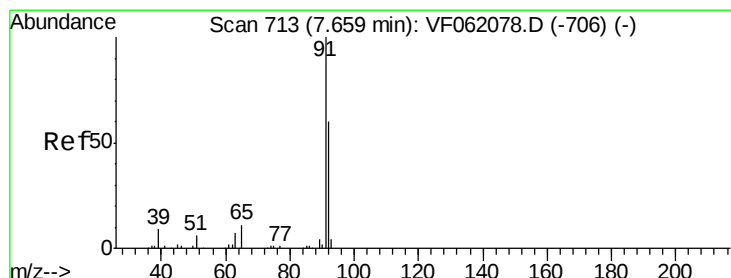
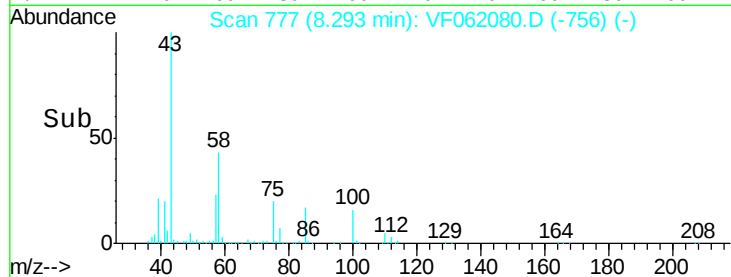
150000

100000

50000

0

Time--> 8.10 8.20 8.30 8.40 8.50



#52

Toluene

Concen: 92.457 ug/l

RT: 7.66 min Scan# 713

Delta R.T. 0.00 min

Lab File: VF062080.D

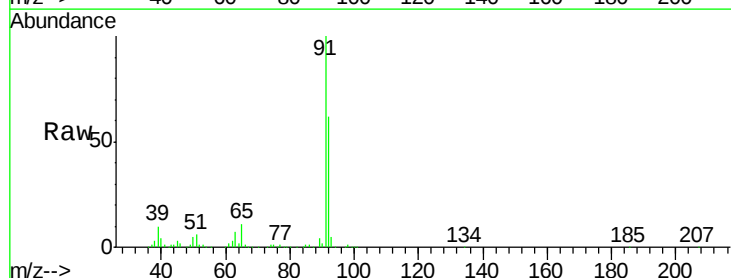
Acq: 22 Mar 2019 13:22

Tgt Ion: 92 Resp: 643950

Ion Ratio Lower Upper

92 100

91 160.4 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.66

500000

400000

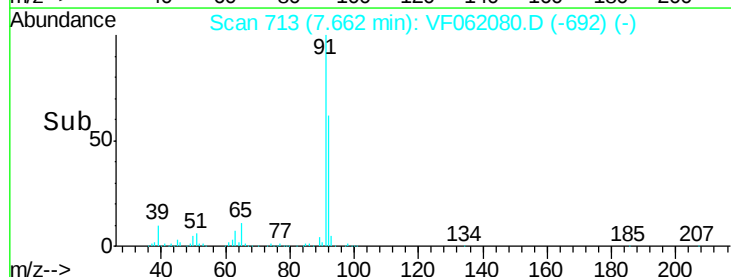
300000

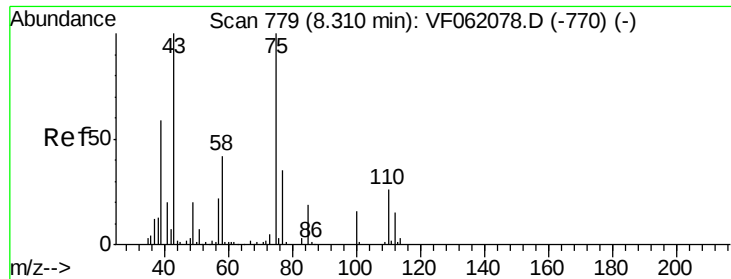
200000

100000

0

Time--> 7.50 7.60 7.70 7.80





#53

t-1,3-Dichloropropene

Concen: 94.527 ug/l

RT: 8.31 min Scan# 779

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tot Ion: 75 Resp: 288232

Ion Ratio Lower Upper

75 100

77 33.3 28.0 42.0

Instrument :

MSVOA_F

ClientSampleId :

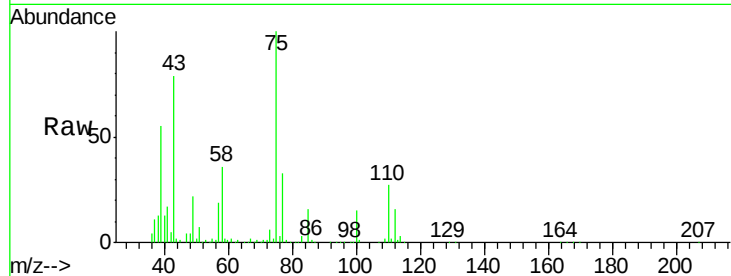
VSTDIC100

Manual Integrations

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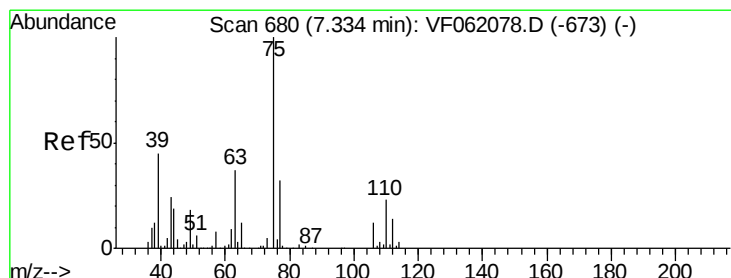
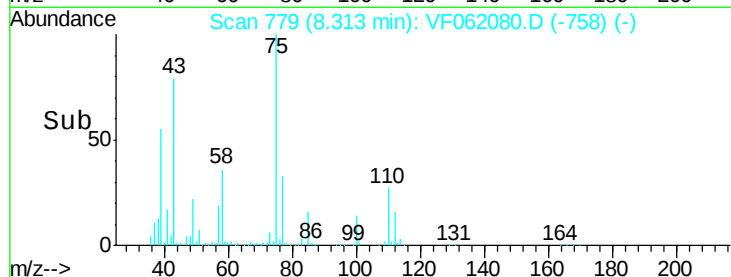
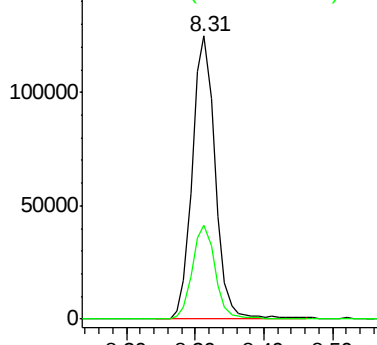
MMDadoda

3/27/2019 11:57:13 AM



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 94.672 ug/l

RT: 7.34 min Scan# 680

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

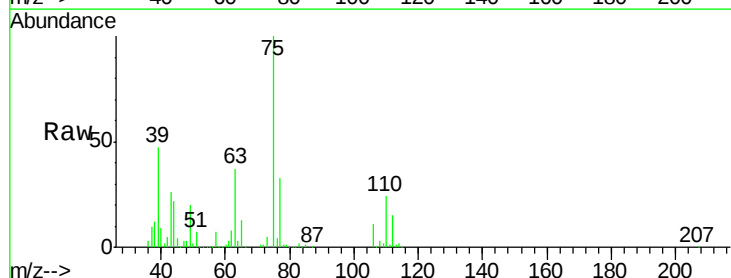
Tgt Ion: 75 Resp: 413042

Ion Ratio Lower Upper

75 100

77 32.8 25.8 38.6

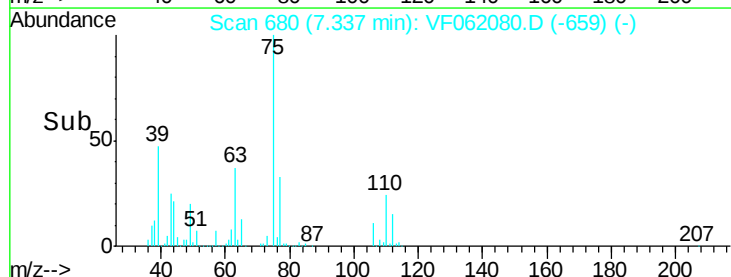
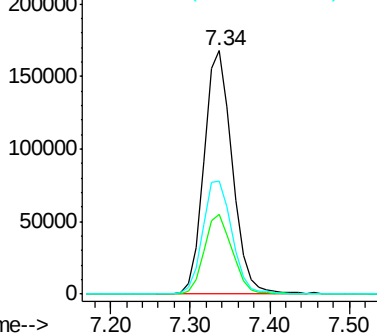
39 46.5 35.9 53.9

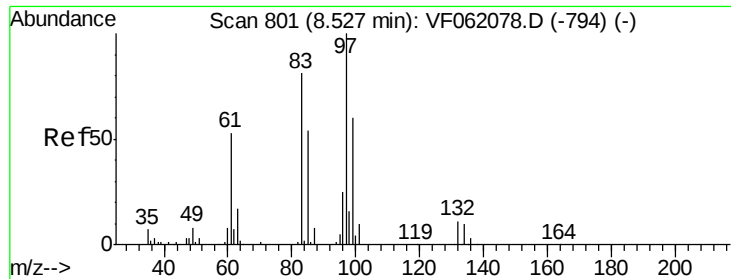


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





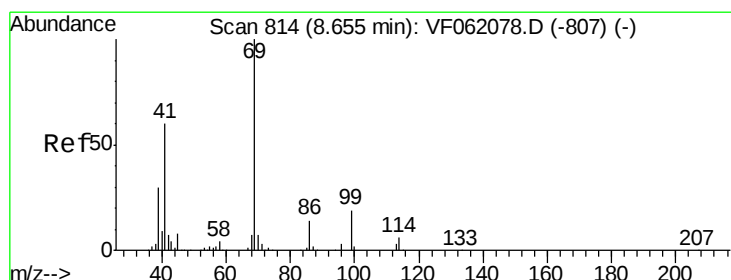
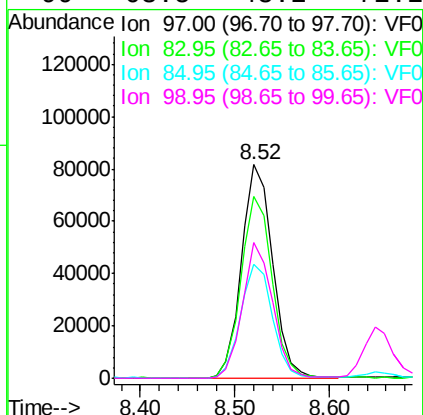
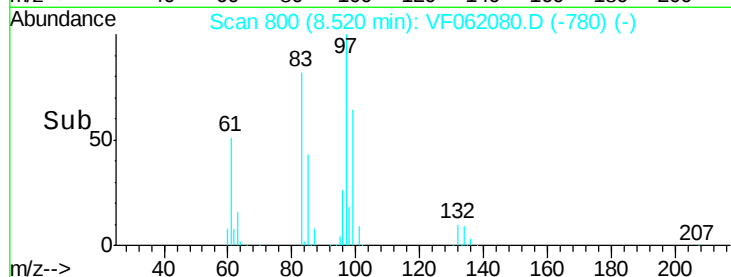
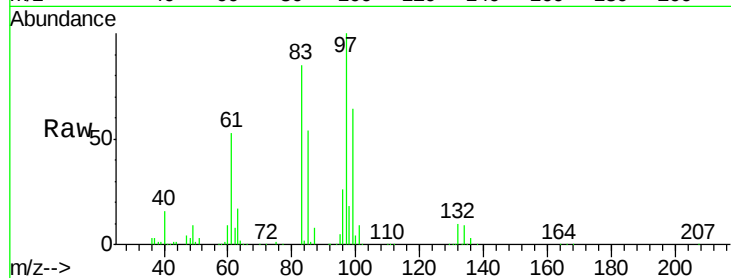
#55
 1,1,2-Trichloroethane
 Concen: 94.399 ug/l
 RT: 8.52 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Tot Ion:	97	Resp:	186753
Ion	Ratio	Lower	Upper
97	100		
83	85.0	64.6	97.0
85	53.6	43.6	65.4
99	63.5	48.2	72.2

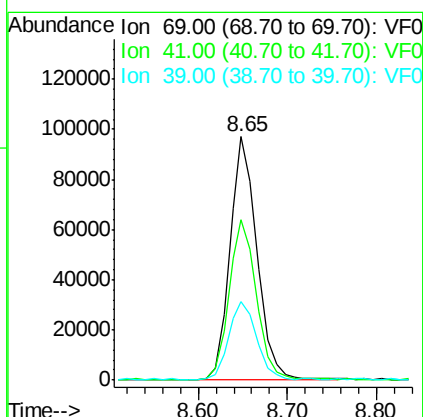
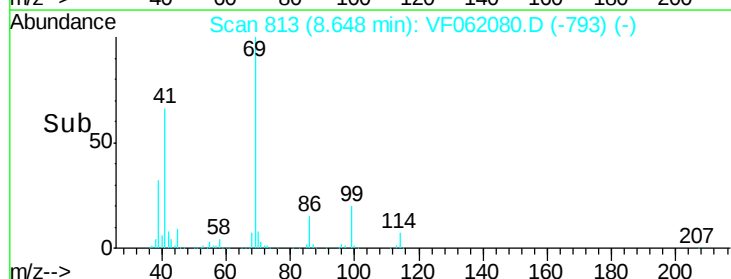
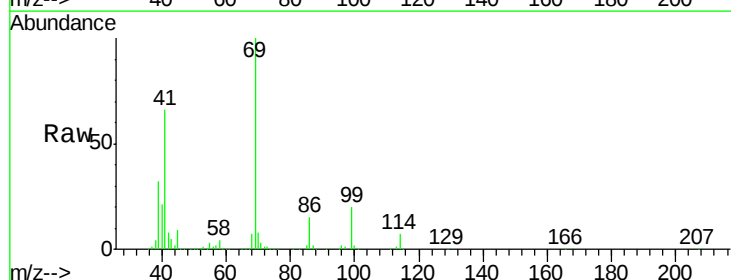
Manual Integrations
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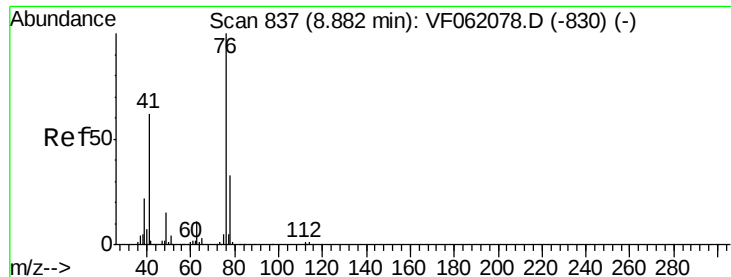
MMDadoda
 3/27/2019 11:57:13 AM



#56
 Ethyl methacrylate
 Concen: 87.484 ug/l
 RT: 8.65 min Scan# 813
 Delta R.T. -0.01 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Tgt Ion:	69	Resp:	206409
Ion	Ratio	Lower	Upper
69	100		
41	65.9	48.2	72.2
39	32.2	24.0	36.0





#57

1,3-Dichloropropane

Concen: 93.161 ug/l

RT: 8.89 min Scan# 837

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 76 Resp: 305891

Ion Ratio Lower Upper

76 100

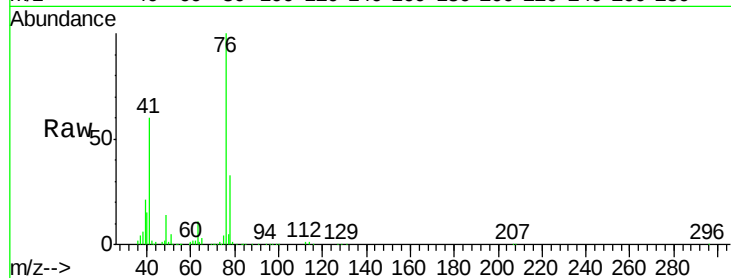
78 33.1 26.6 39.8

Manual Integrations

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MMDadoda

3/27/2019 11:57:13 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

8.89

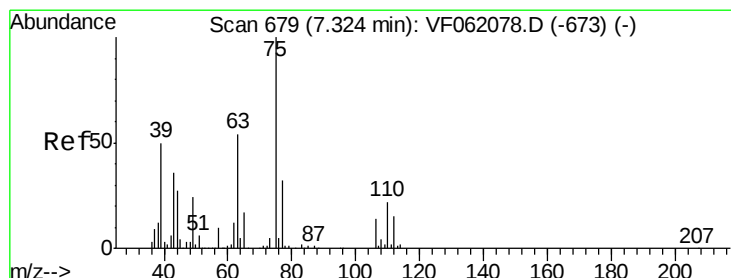
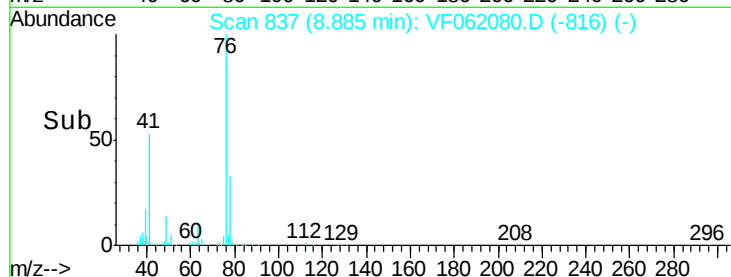
150000

100000

50000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 481.424 ug/l

RT: 7.33 min Scan# 679

Delta R.T. 0.00 min

Lab File: VF062080.D

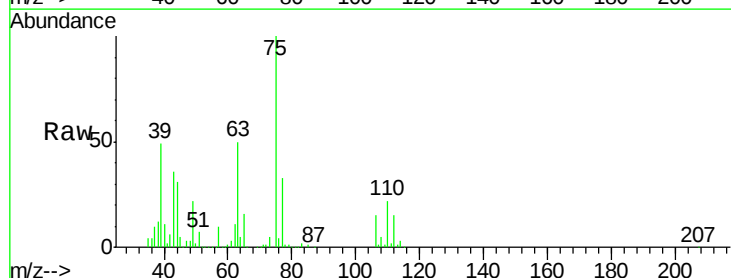
Acq: 22 Mar 2019 13:22

Tgt Ion: 63 Resp: 172359

Ion Ratio Lower Upper

63 100

106 29.6 21.5 32.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.33

80000

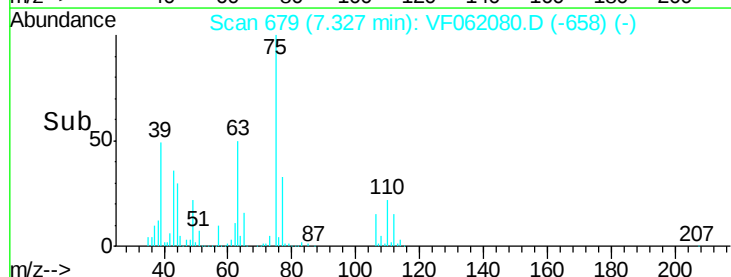
60000

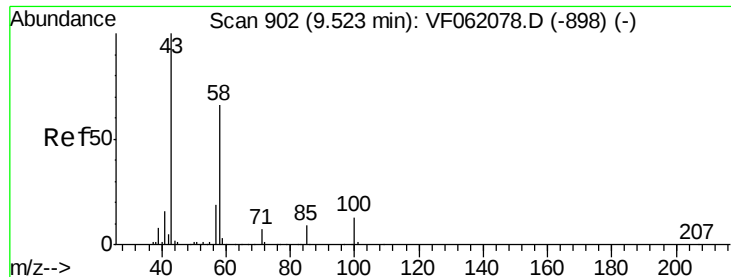
40000

20000

0

Time-->





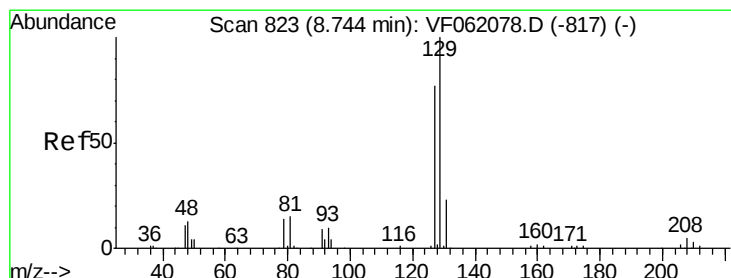
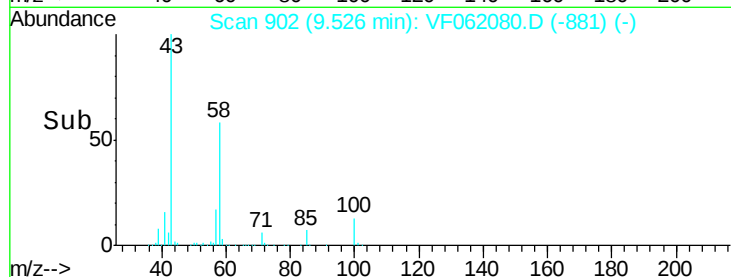
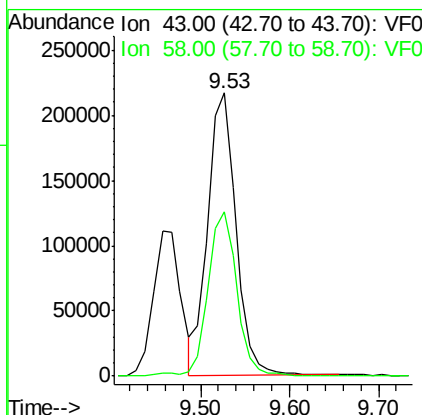
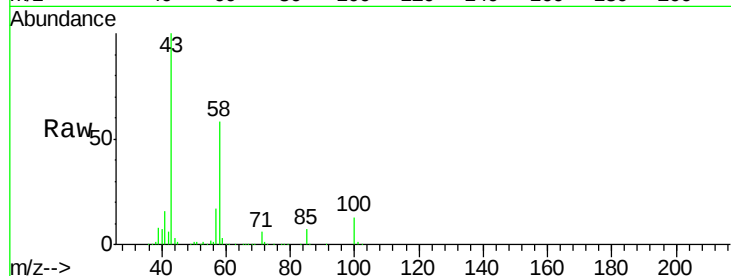
#59
2-Hexanone
Concen: 410.240 ug/l
RT: 9.53 min Scan# 902
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDICC100

Tot Ion: 43 Resp: 477751
Ion Ratio Lower Upper
43 100
58 58.1 28.8 86.4

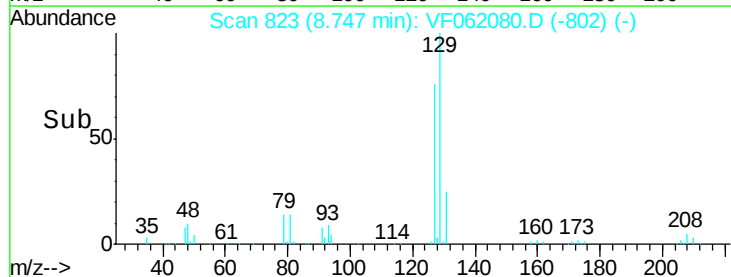
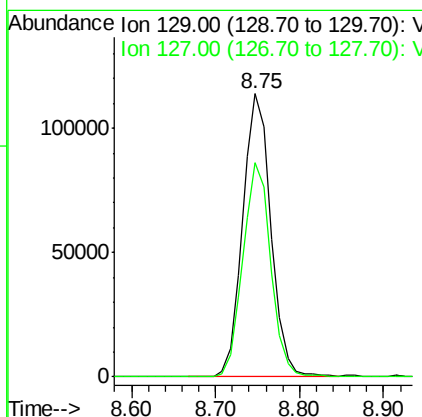
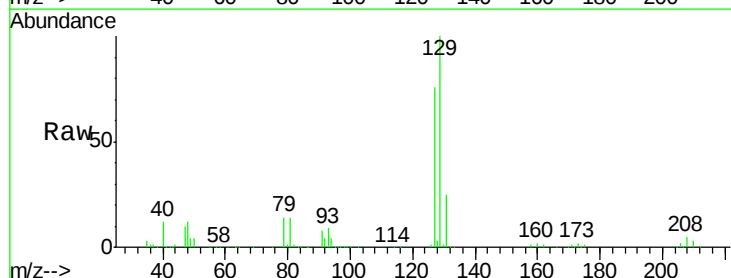
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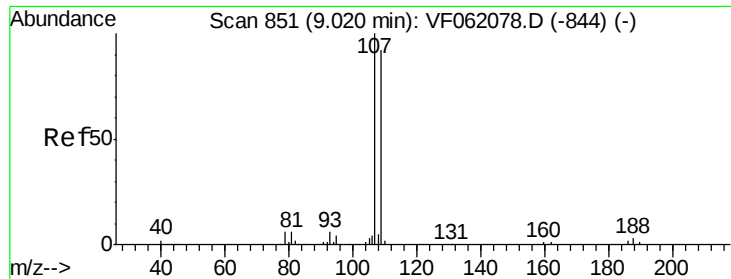
MMDadoda
3/27/2019 11:57:13 AM



#60
Dibromochloromethane
Concen: 96.967 ug/l
RT: 8.75 min Scan# 823
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion: 129 Resp: 266682
Ion Ratio Lower Upper
129 100
127 75.9 38.7 116.1





#61

1,2-Dibromoethane

Concen: 94.214 ug/l

RT: 9.02 min Scan# 851

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 107 Resp: 198853

Ion Ratio Lower Upper

107 100

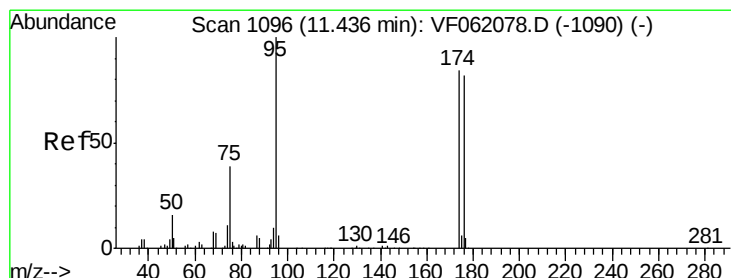
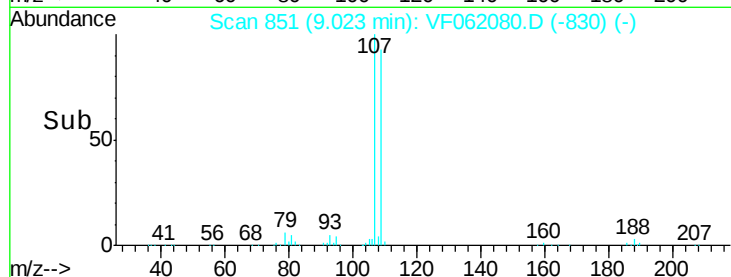
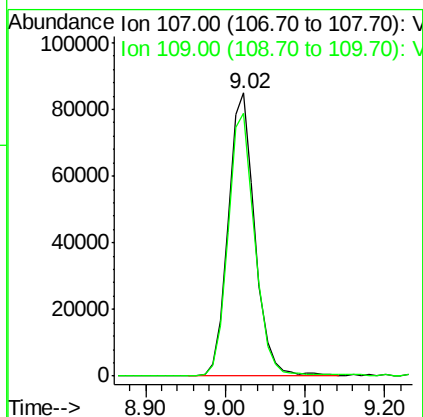
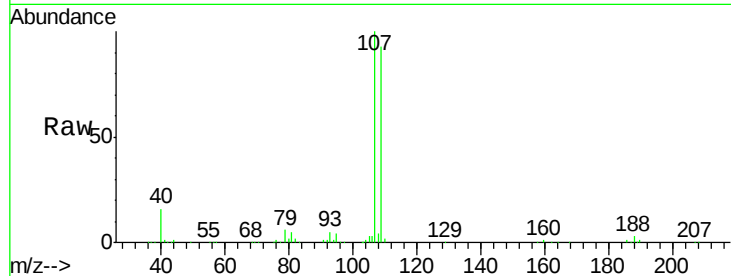
109 92.8 73.4 110.0

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#62

4-Bromofluorobenzene

Concen: 92.011 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

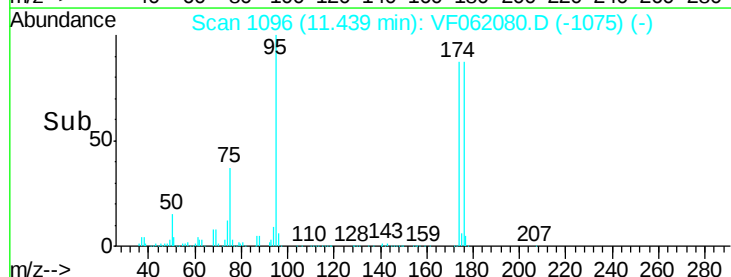
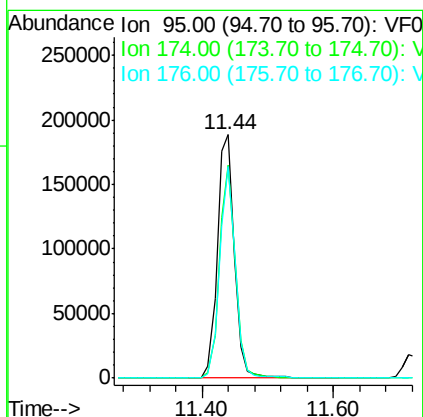
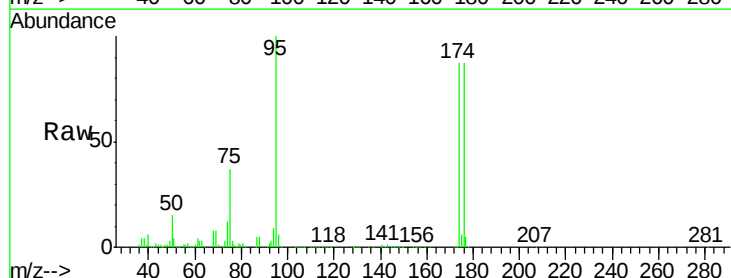
Tgt Ion: 95 Resp: 337775

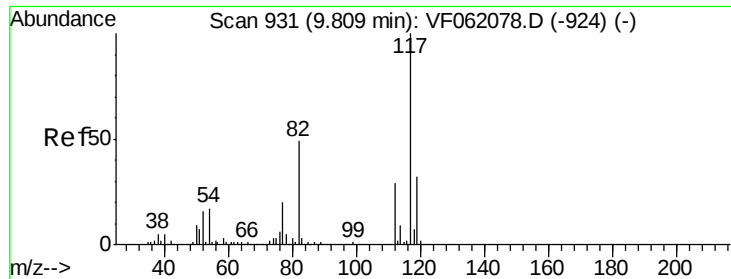
Ion Ratio Lower Upper

95 100

174 87.2 0.0 168.2

176 86.8 0.0 164.2





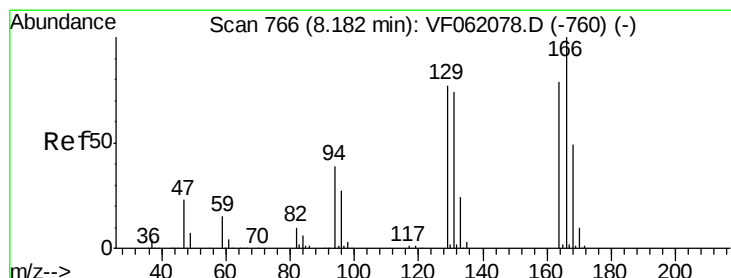
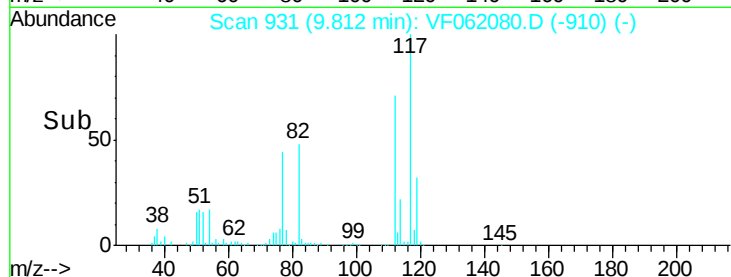
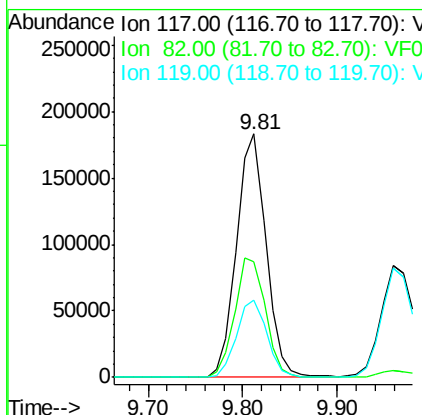
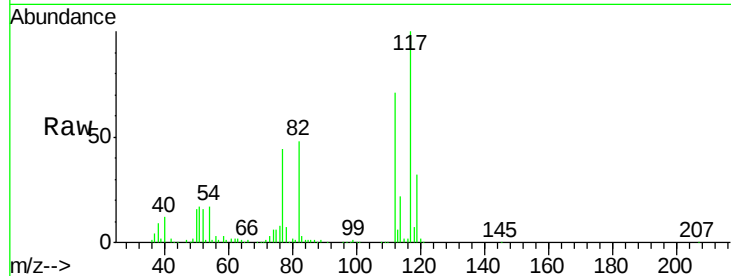
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
117	100	398125		
82	47.6		39.2	58.8
119	31.9		25.4	38.2

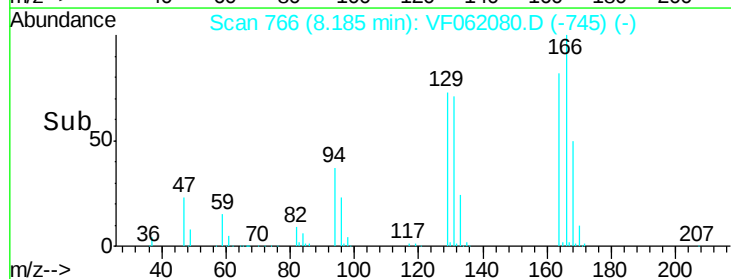
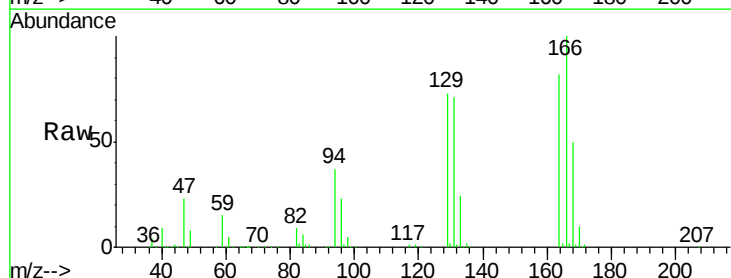
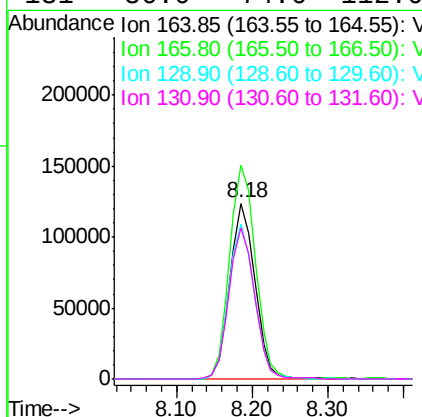
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#64
Tetrachloroethene
Concen: 92.446 ug/l
RT: 8.18 min Scan# 766
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	284350		
166	121.7		100.9	151.3
129	88.5		77.9	116.9
131	86.0		74.6	112.0





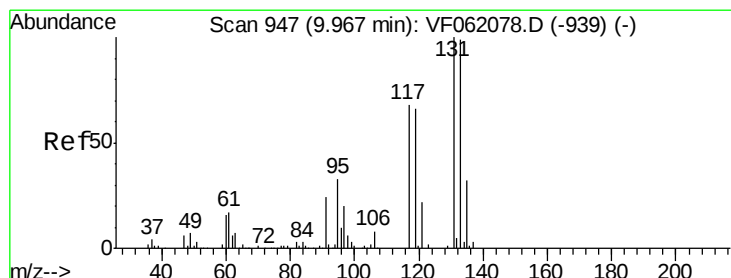
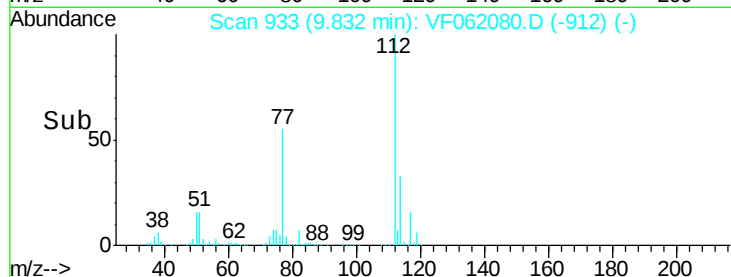
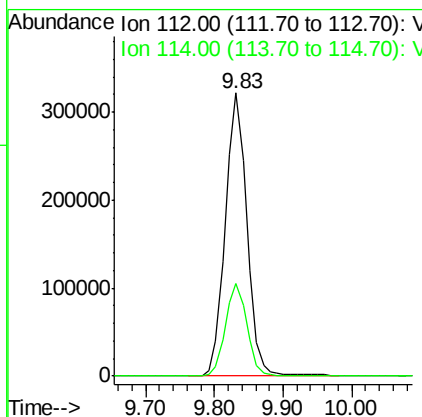
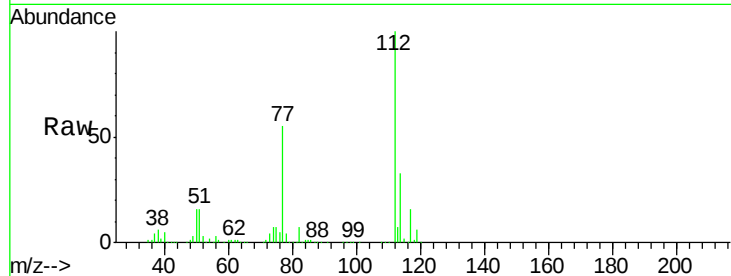
#65
Chlorobenzene
Concen: 94.407 ug/l
RT: 9.83 min Scan# 933
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
112	100	703258		
114	32.8	26.0	39.0	

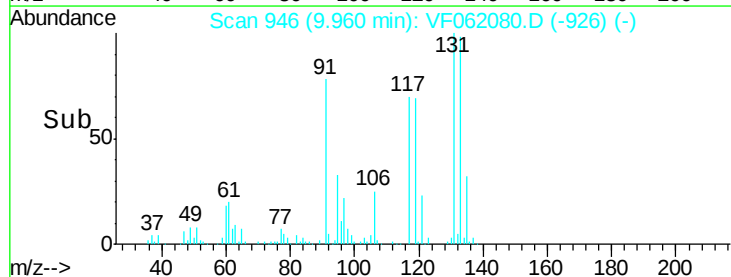
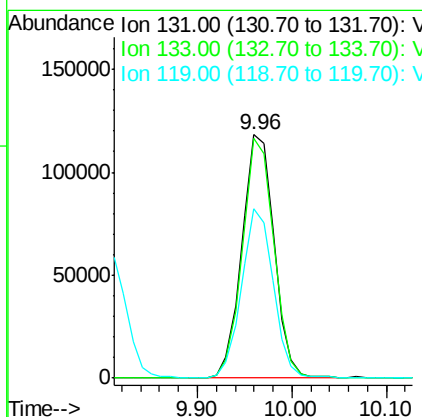
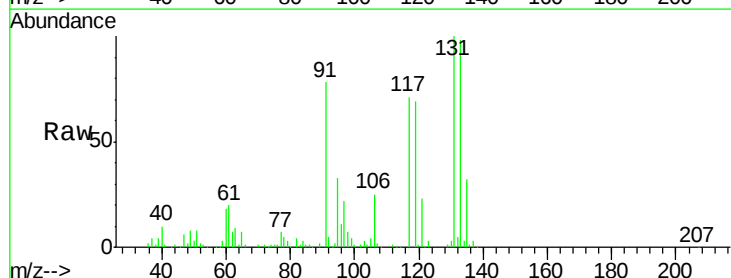
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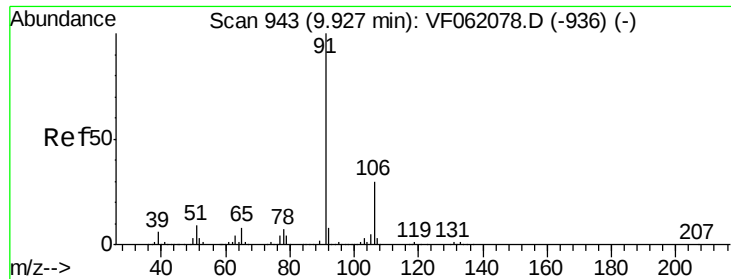
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#66
1,1,1,2-Tetrachloroethane
Concen: 93.497 ug/l
RT: 9.96 min Scan# 946
Delta R.T. -0.01 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	279766		
133	98.4	49.3	147.8	
119	69.5	33.5	100.4	





#67

Ethyl Benzene

Concen: 90.284 ug/l

RT: 9.93 min Scan# 943

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 1169612

Ion Ratio Lower Upper

91 100

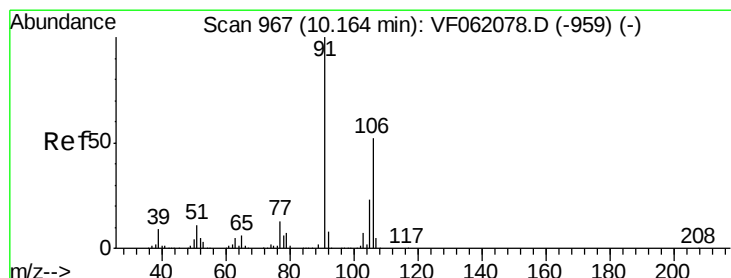
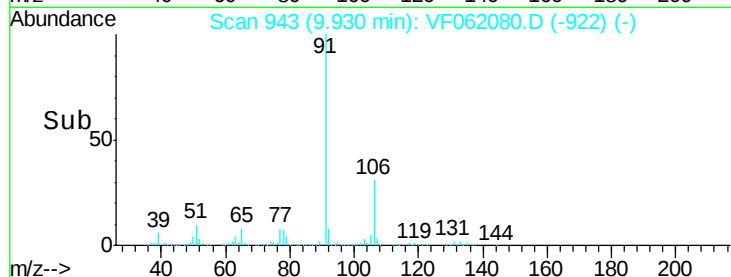
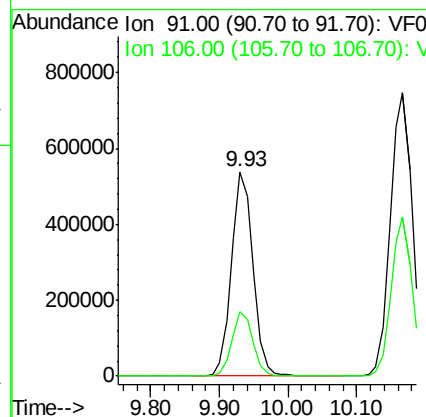
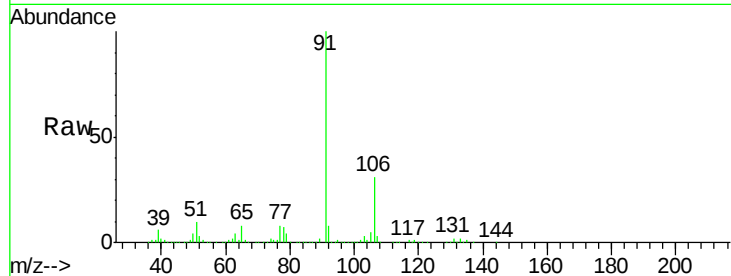
106 31.4 24.0 36.0

Manual Integrations

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#68

m/p-Xylenes

Concen: 183.908 ug/l

RT: 10.17 min Scan# 967

Delta R.T. 0.00 min

Lab File: VF062080.D

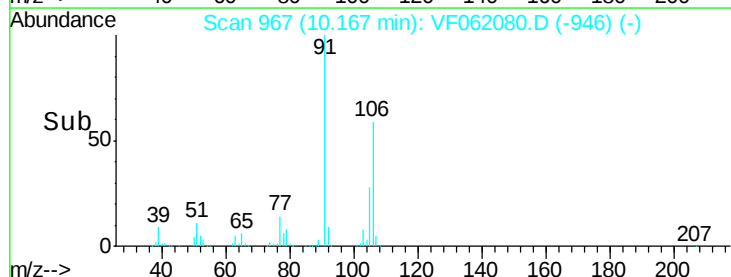
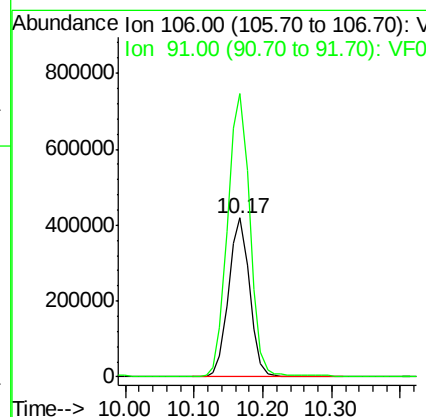
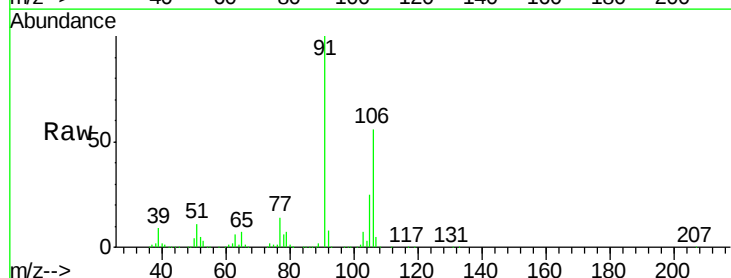
Acq: 22 Mar 2019 13:22

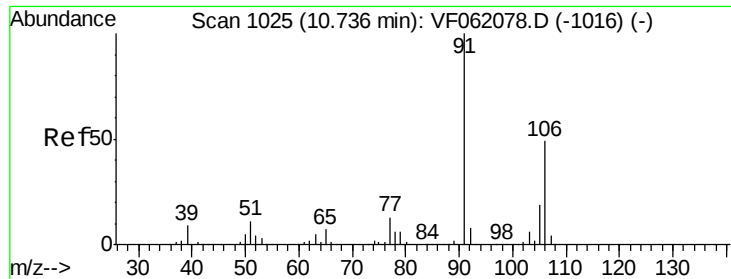
Tgt Ion: 106 Resp: 890480

Ion Ratio Lower Upper

106 100

91 178.4 154.4 231.6





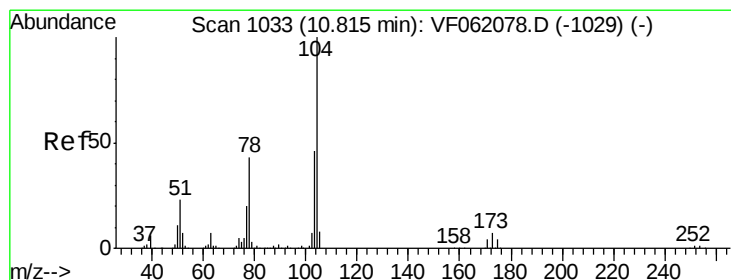
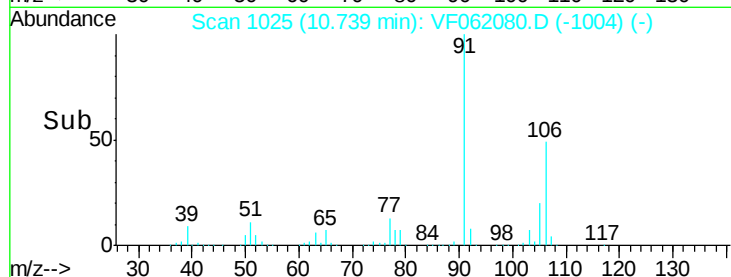
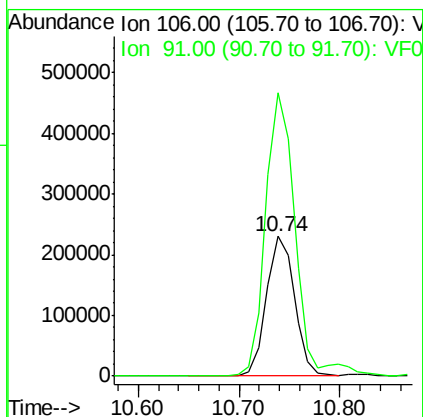
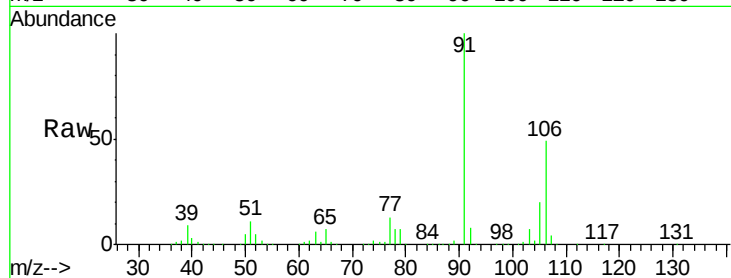
#69
o-Xylene
Concen: 87.369 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion:106 Resp: 443071
Ion Ratio Lower Upper
106 100
91 202.8 102.6 307.8

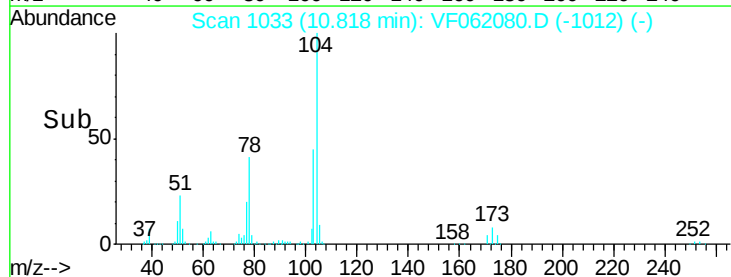
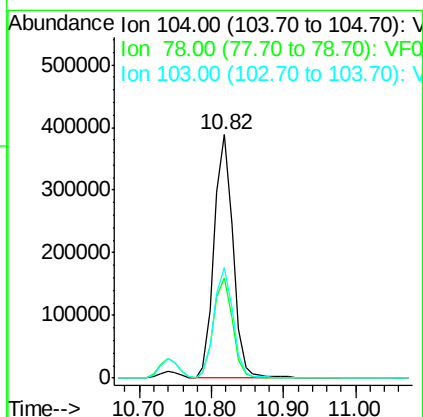
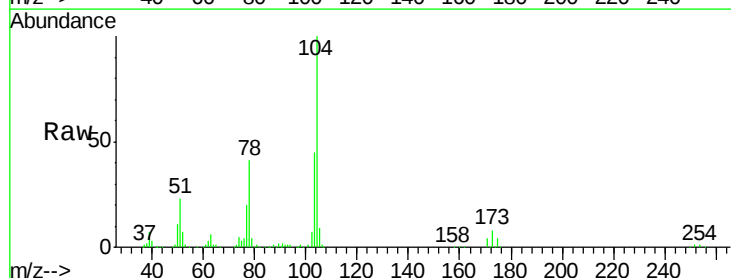
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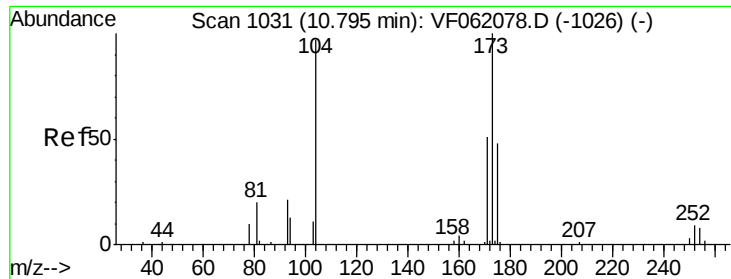
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#70
Styrene
Concen: 90.437 ug/l
RT: 10.82 min Scan# 1033
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion:104 Resp: 694891
Ion Ratio Lower Upper
104 100
78 41.0 34.3 51.5
103 45.4 36.9 55.3





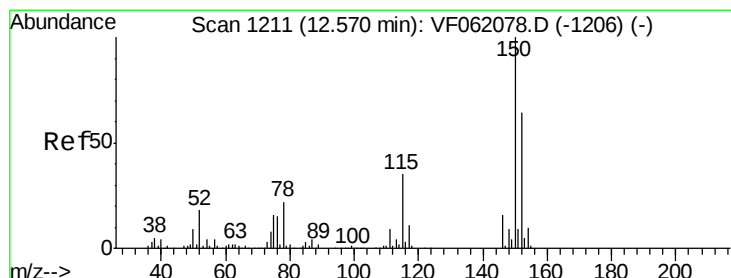
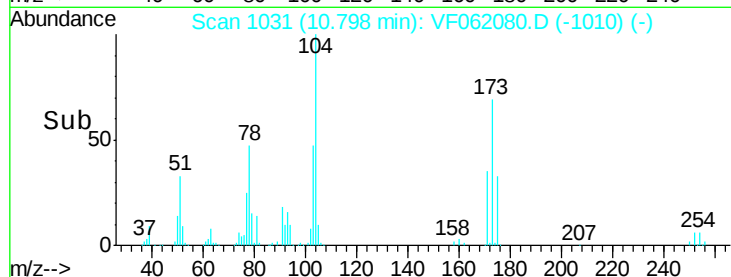
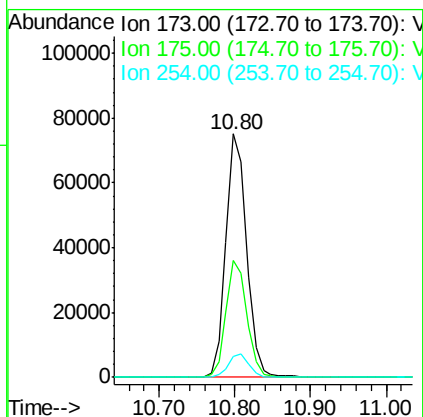
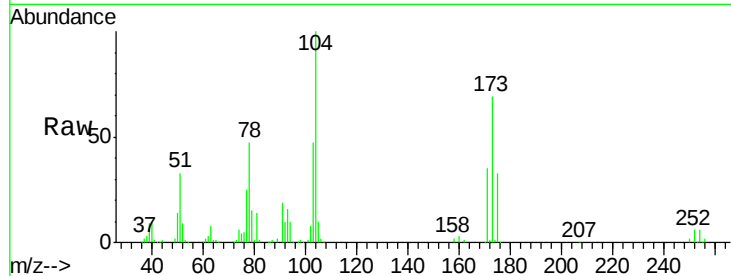
#71
Bromoform
Concen: 93.386 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.1	72.4
254	8.7	6.2	9.4

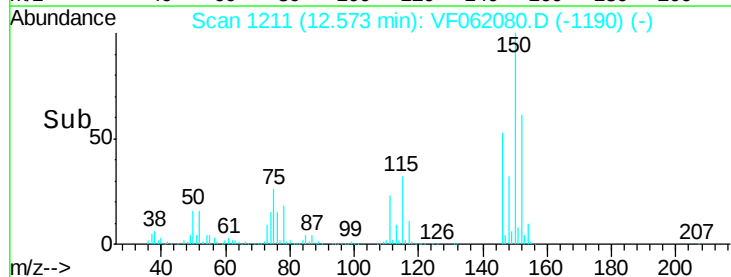
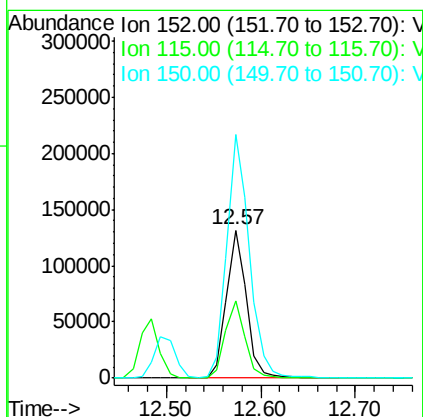
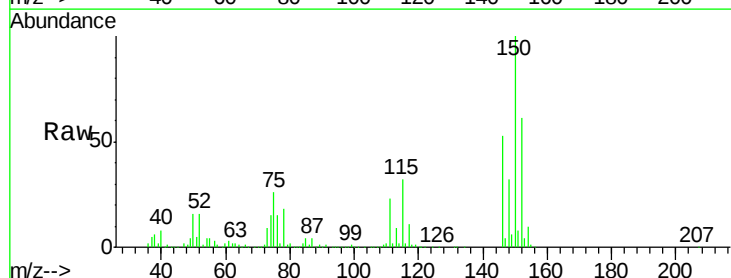
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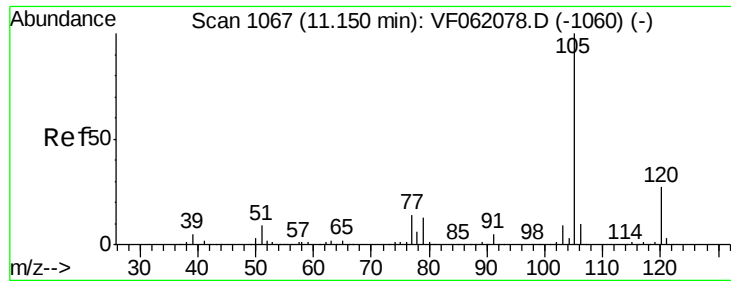
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.6	27.7	83.1
150	164.5	0.0	313.2





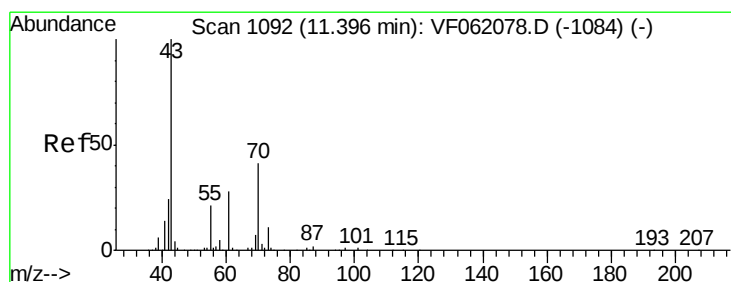
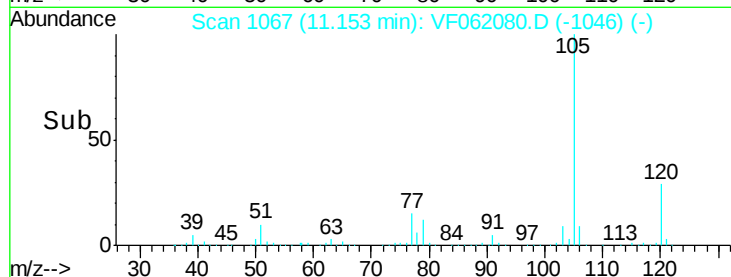
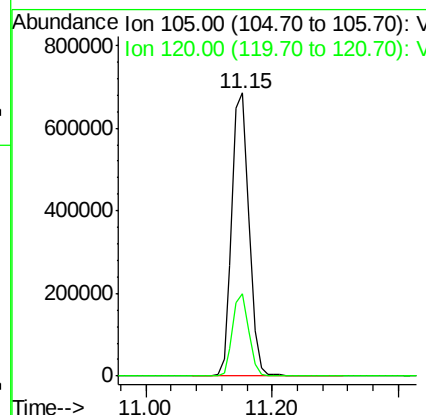
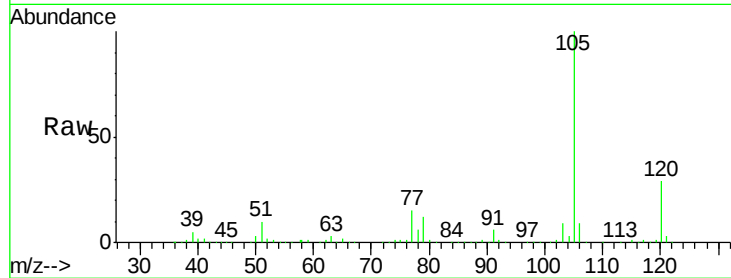
#73
Isopropylbenzene
Concen: 95.065 ug/l
RT: 11.15 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion:105 Resp: 1294345
Ion Ratio Lower Upper
105 100
120 29.0 13.8 41.3

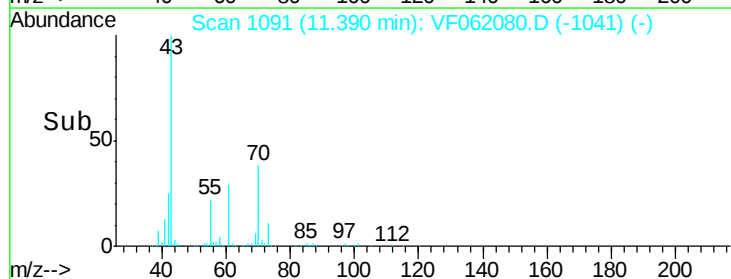
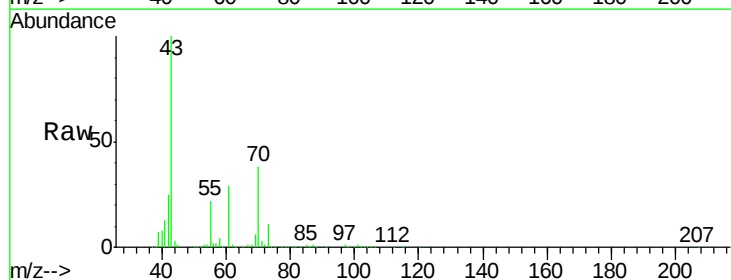
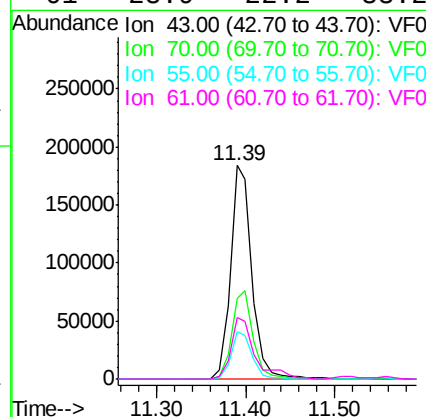
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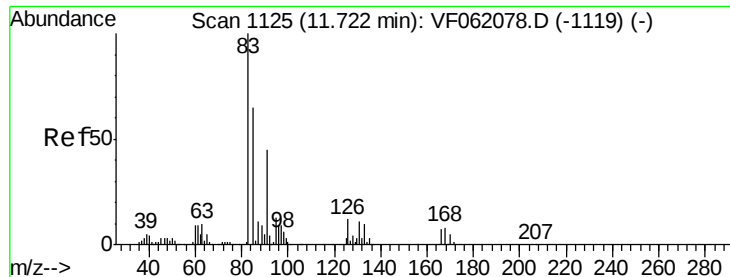
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#74
N-ethyl acetate
Concen: 95.945 ug/l
RT: 11.39 min Scan# 1091
Delta R.T. -0.01 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion: 43 Resp: 311267
Ion Ratio Lower Upper
43 100
70 38.0 32.9 49.3
55 22.0 17.1 25.7
61 28.9 22.2 33.2





#75

1,1,2,2-Tetrachloroethane

Concen: 97.151 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 83 Resp: 227120
Ion Ratio Lower Upper

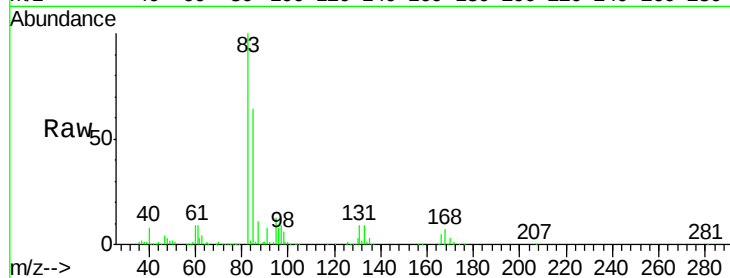
83 100

131 9.0 5.3 15.8

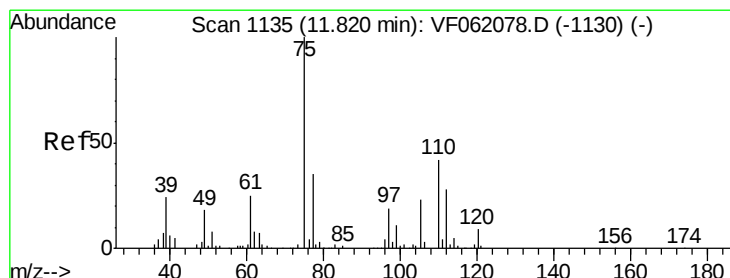
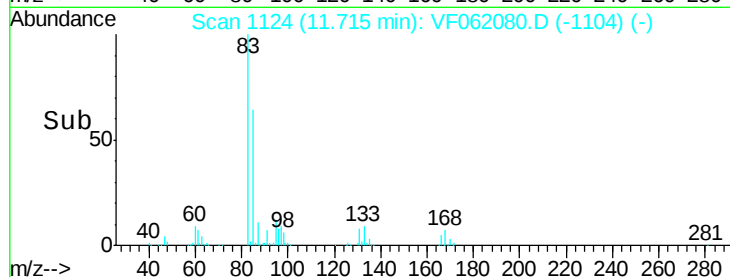
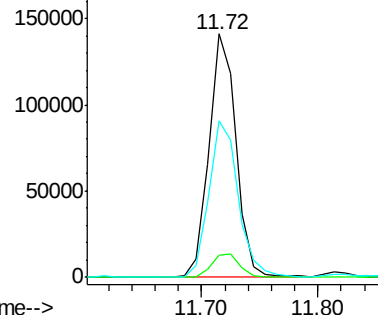
85 64.3 32.6 98.0

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



#76

1,2,3-Trichloropropane

Concen: 91.816 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

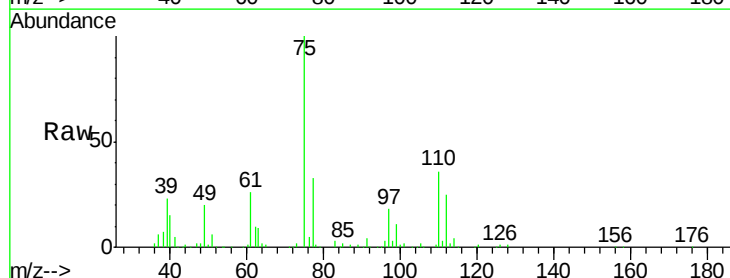
Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

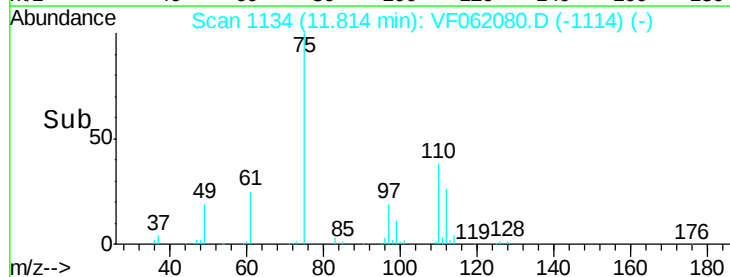
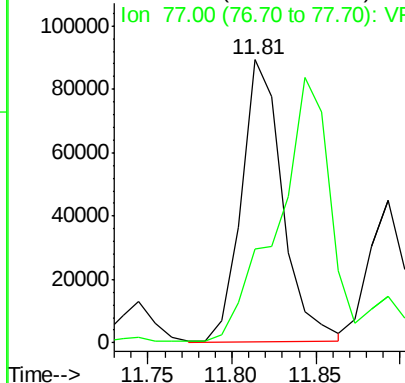
Tgt Ion: 75 Resp: 151060
Ion Ratio Lower Upper

75 100

77 33.0 17.8 53.3



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





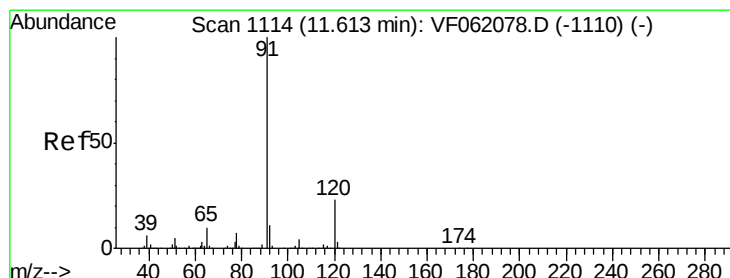
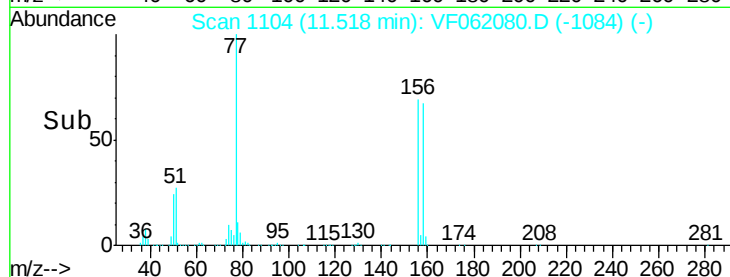
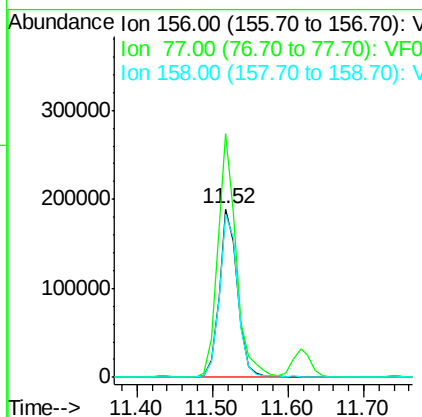
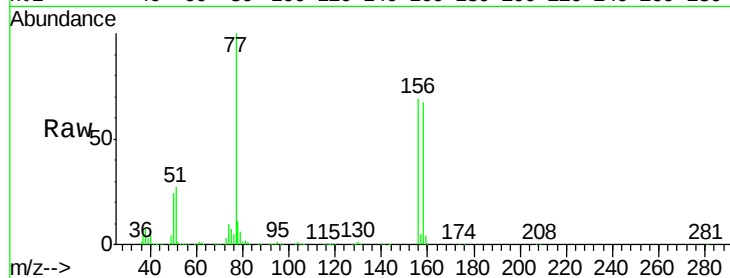
#77
Bromobenzene
Concen: 95.292 ug/l
RT: 11.52 min Scan# 1104
Delta R.T. -0.01 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100		316982		
77	144.3	61.3	183.9		
158	96.6	48.6	145.9		

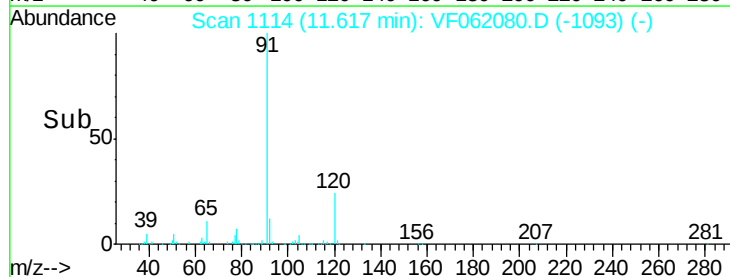
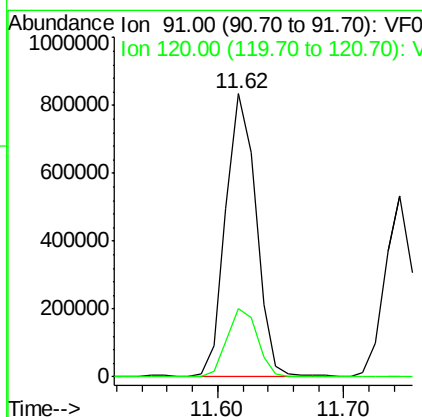
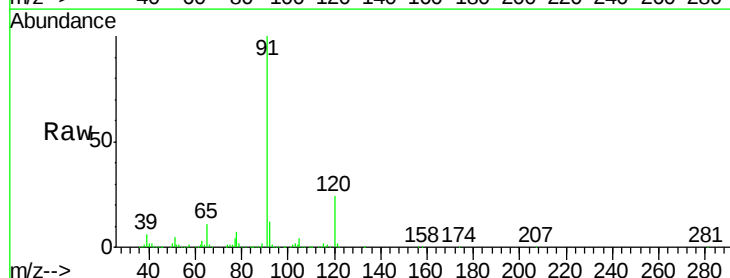
Manual Integrations
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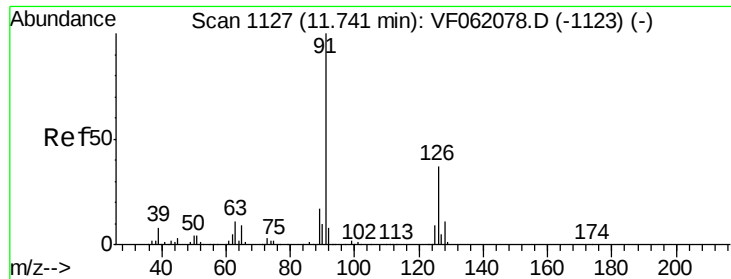
MMDadoda
3/27/2019 11:57:13 AM



#78
n-propylbenzene
Concen: 88.154 ug/l
RT: 11.62 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100		1393712		
120	24.4	11.3	33.8		





#79

2-Chlorotoluene

Concen: 94.497 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 91 Resp: 830399

Ion Ratio Lower Upper

91 100

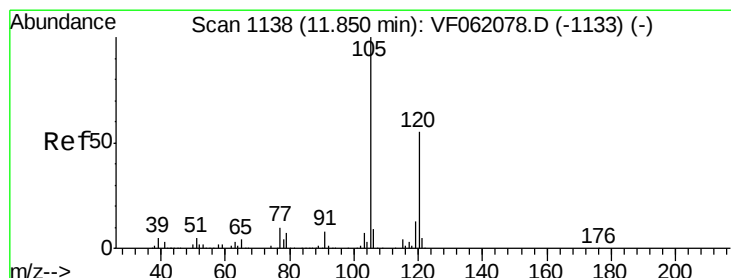
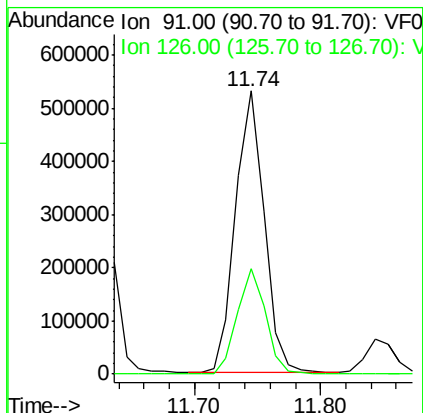
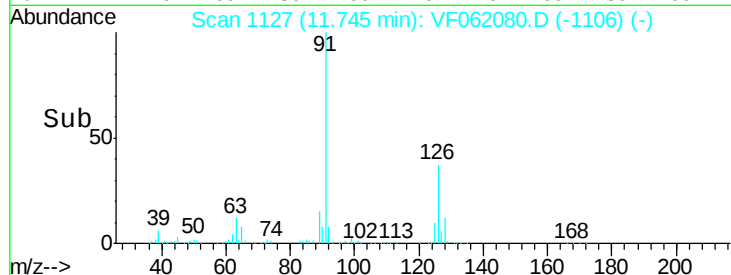
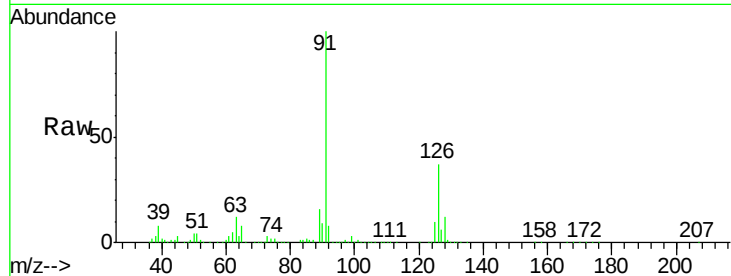
126 37.1 18.3 54.8

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#80

1,3,5-Trimethylbenzene

Concen: 92.744 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VF062080.D

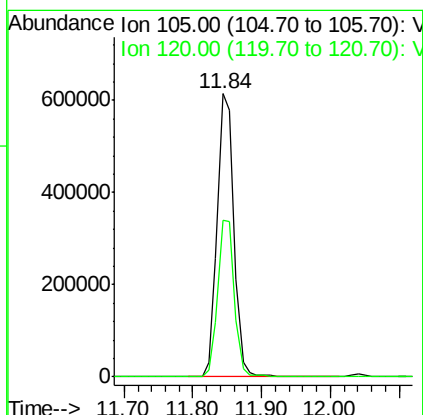
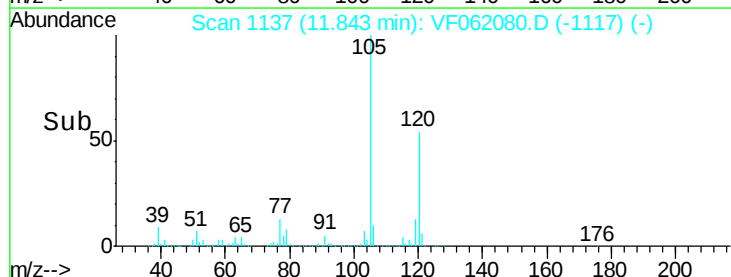
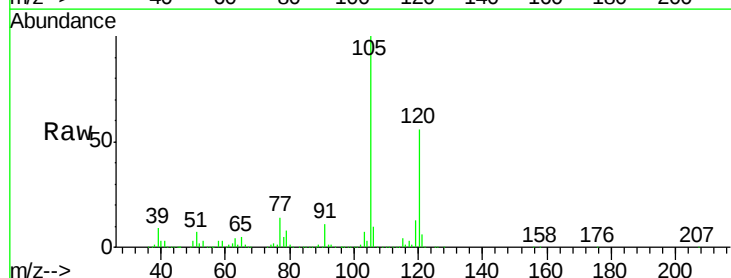
Acq: 22 Mar 2019 13:22

Tgt Ion: 105 Resp: 1038660

Ion Ratio Lower Upper

105 100

120 55.5 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 79.735 ug/l m

RT: 11.89 min Scan# 1142

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion: 75 Resp: 70752

Ion Ratio Lower Upper

75 100

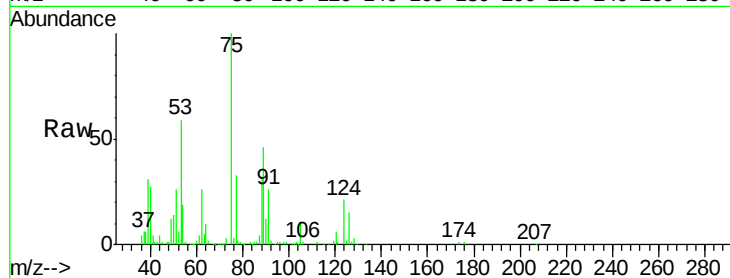
53 59.1 49.4 74.0

89 45.7 40.6 60.8

Manual Integrations
APPROVED

MMDadoda

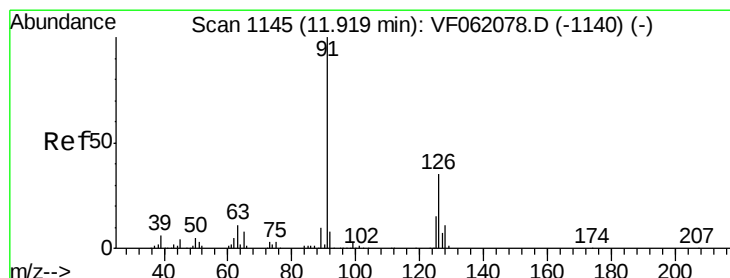
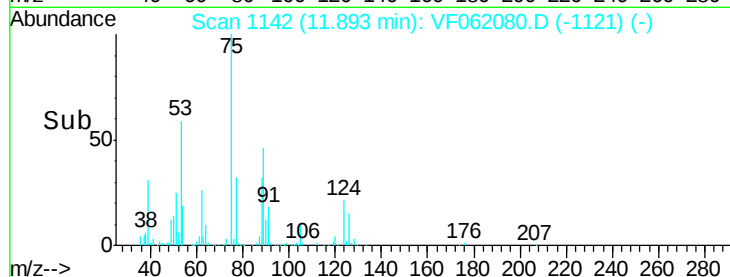
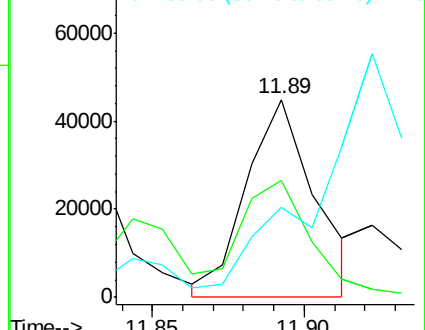
3/27/2019 11:57:13 AM



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 92.527 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VF062080.D

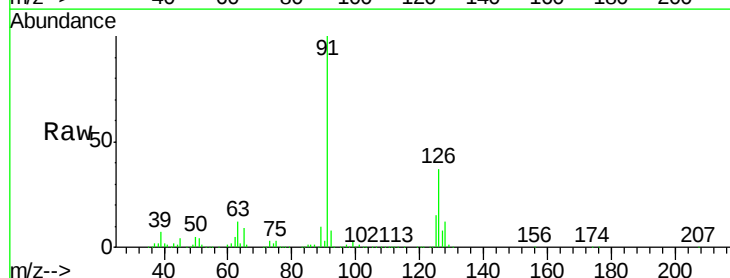
Acq: 22 Mar 2019 13:22

Tgt Ion: 91 Resp: 833676

Ion Ratio Lower Upper

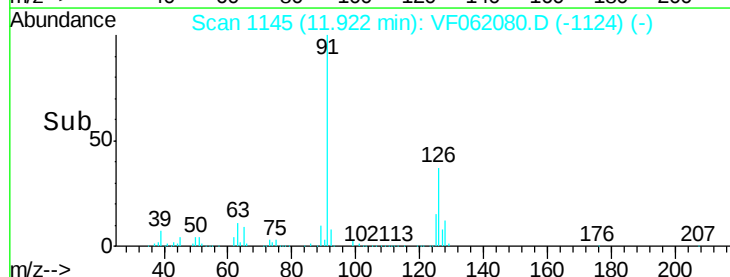
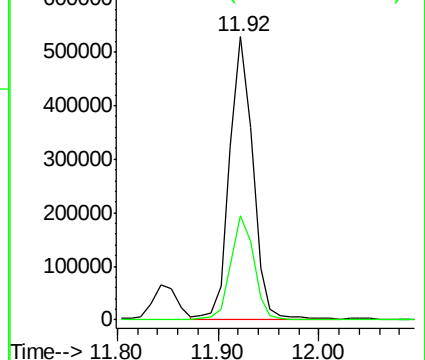
91 100

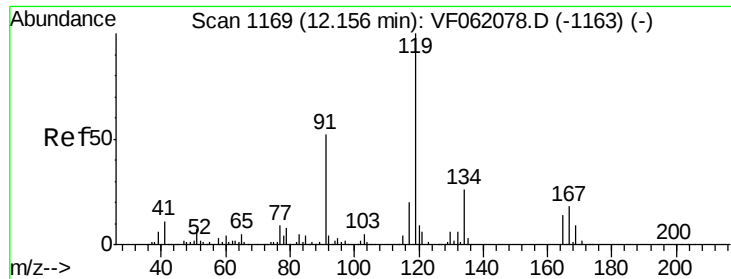
126 36.7 17.2 51.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





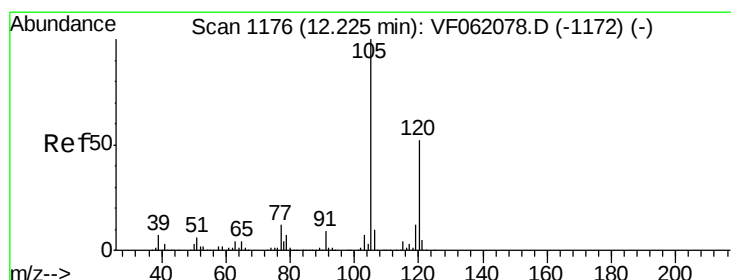
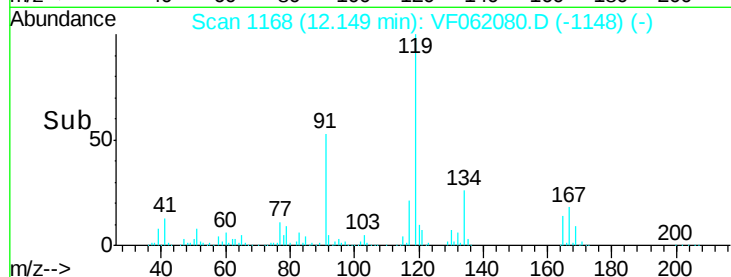
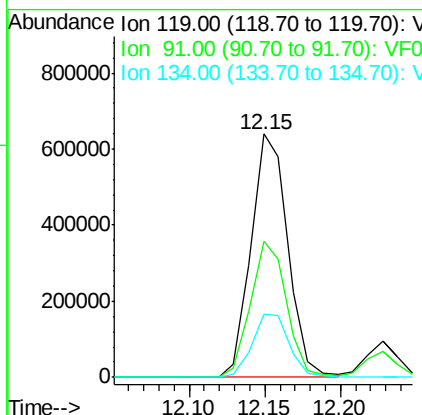
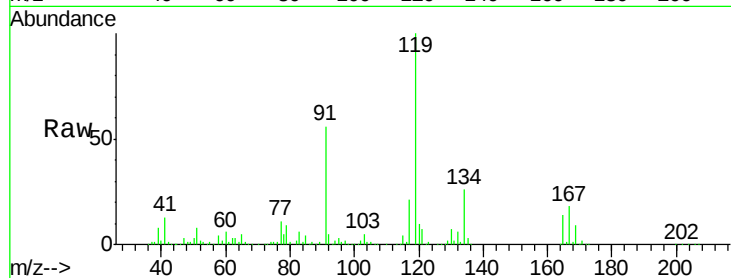
#83
 tert-Butylbenzene
 Concen: 92.462 ug/l
 RT: 12.15 min Scan# 1168
 Delta R.T. -0.01 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Tot Ion:119 Resp: 1083981
 Ion Ratio Lower Upper
 119 100
 91 55.8 26.1 78.2
 134 25.7 12.8 38.4

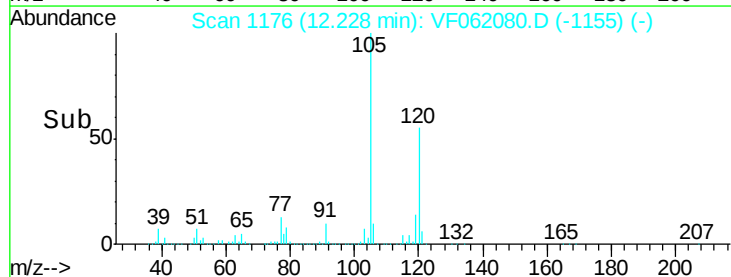
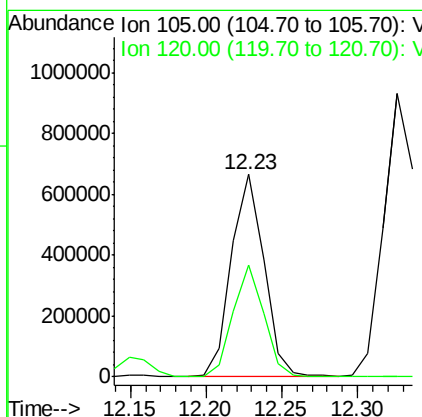
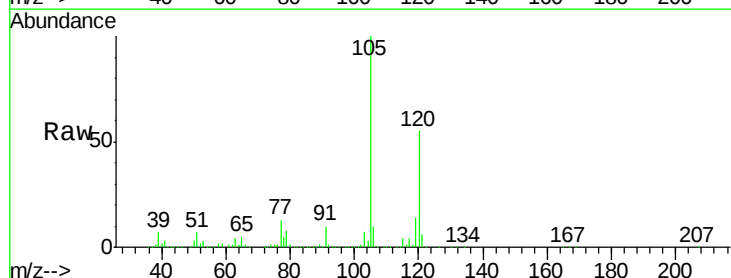
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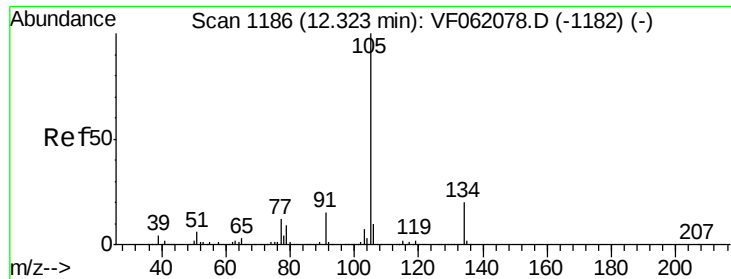
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#84
 1,2,4-Trimethylbenzene
 Concen: 91.650 ug/l
 RT: 12.23 min Scan# 1176
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Tgt Ion:105 Resp: 1006205
 Ion Ratio Lower Upper
 105 100
 120 55.0 26.1 78.2





#85

sec-Butylbenzene

Concen: 93.918 ug/l

RT: 12.33 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC100

Tot Ion:105 Resp: 1424387

Ion Ratio Lower Upper

105 100

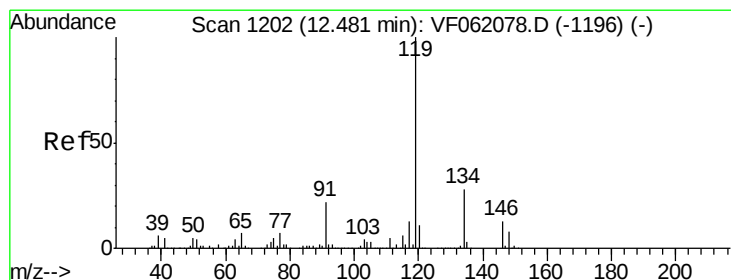
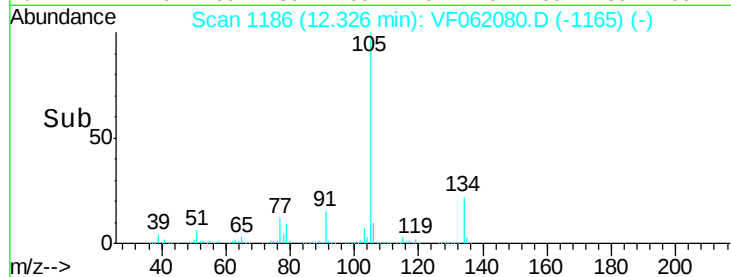
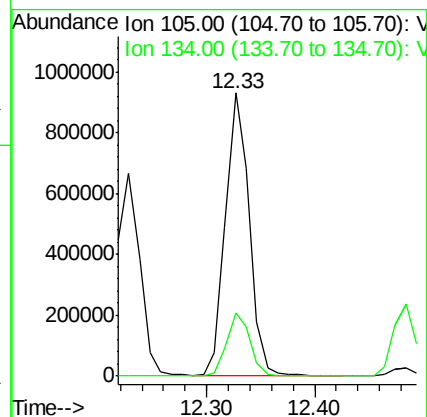
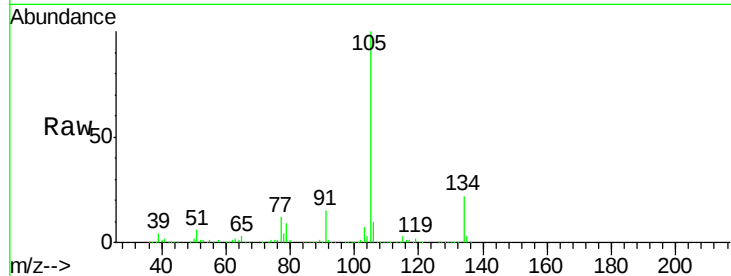
134 22.3 10.2 30.4

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 91.034 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

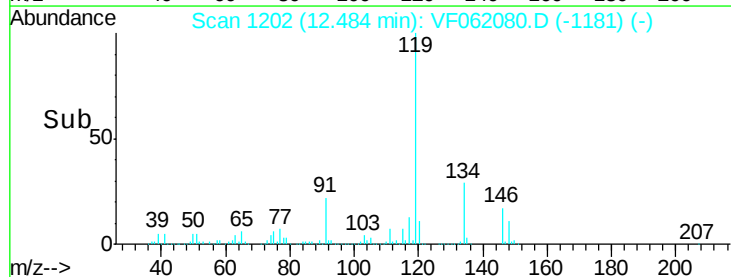
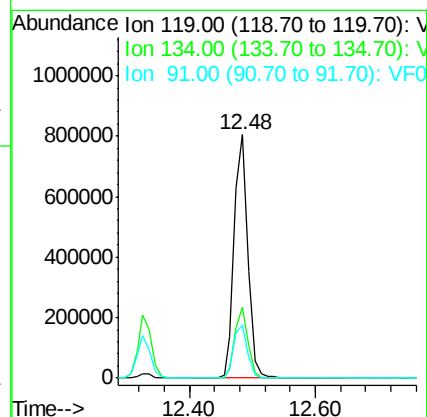
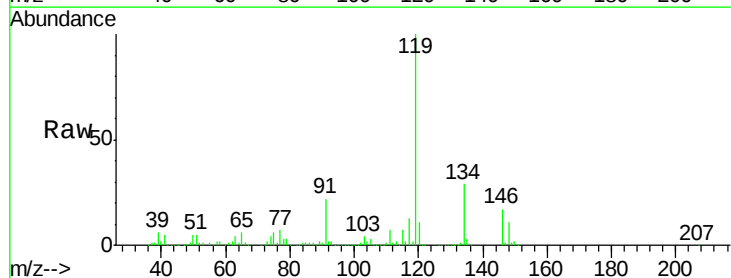
Tgt Ion:119 Resp: 1196161

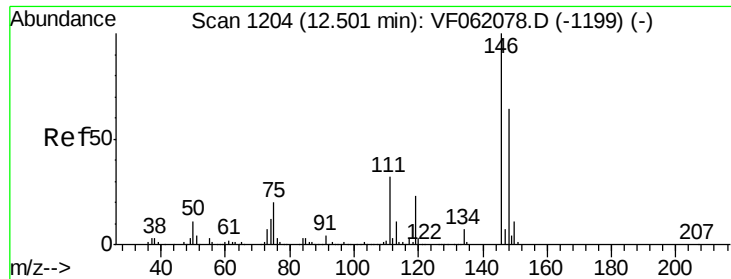
Ion Ratio Lower Upper

119 100

134 29.3 14.0 42.0

91 21.9 10.8 32.4





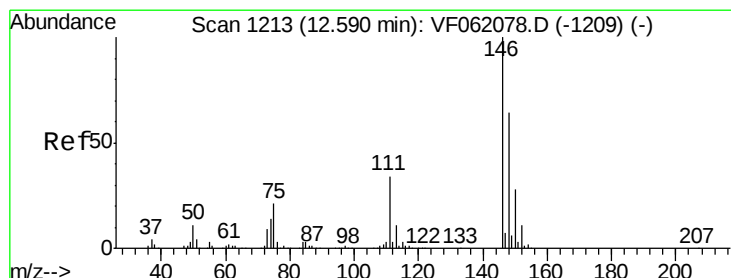
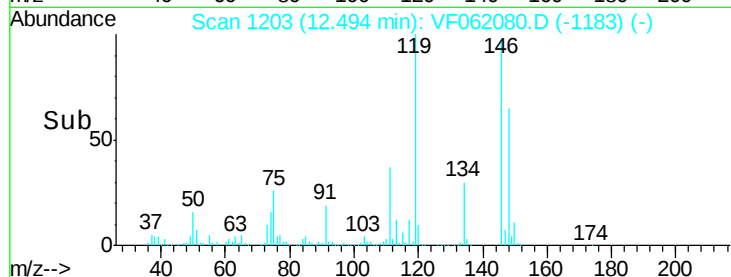
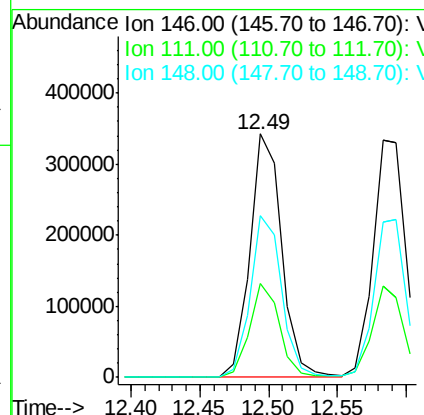
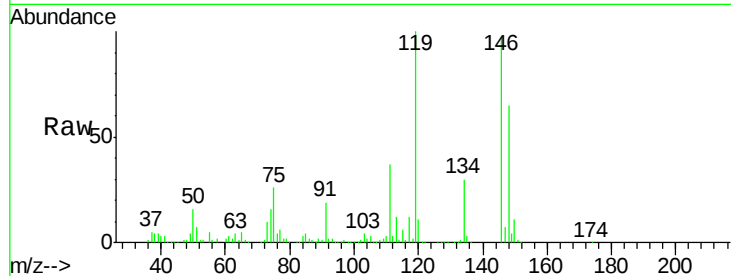
#87
 1,3-Dichlorobenzene
 Concen: 89.530 ug/l
 RT: 12.49 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
146	100	553308		
111	38.5	16.1	48.3	
148	66.7	31.9	95.7	

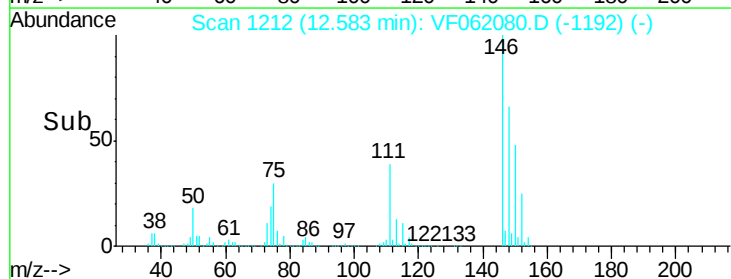
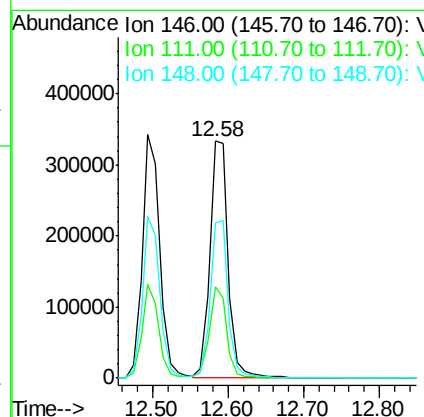
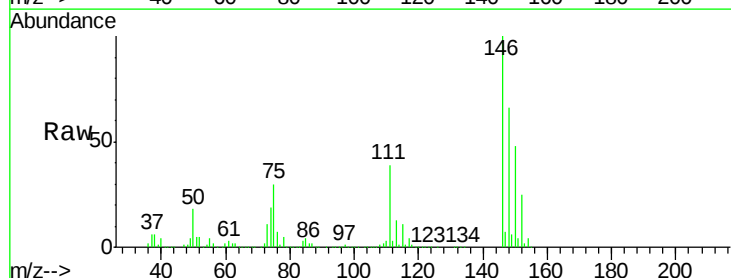
Manual Integrations
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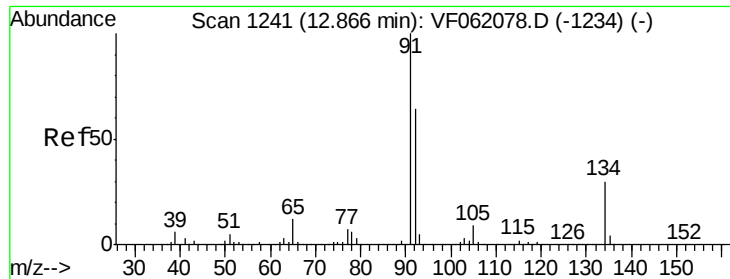
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#88
 1,4-Dichlorobenzene
 Concen: 93.442 ug/l
 RT: 12.58 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	563509		
111	38.8	16.9	50.6	
148	65.9	31.9	95.7	





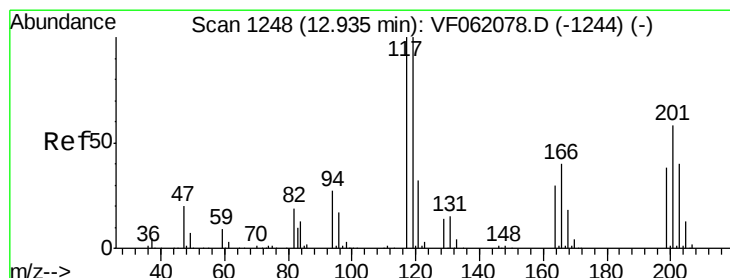
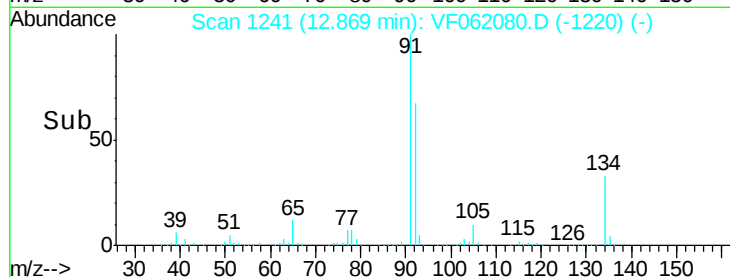
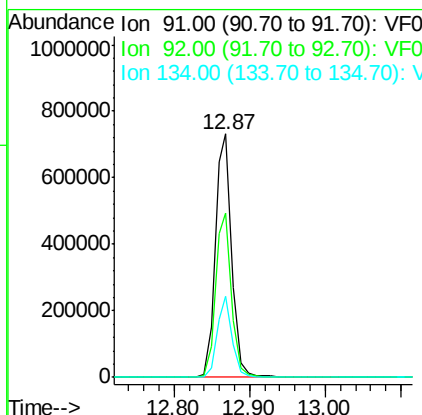
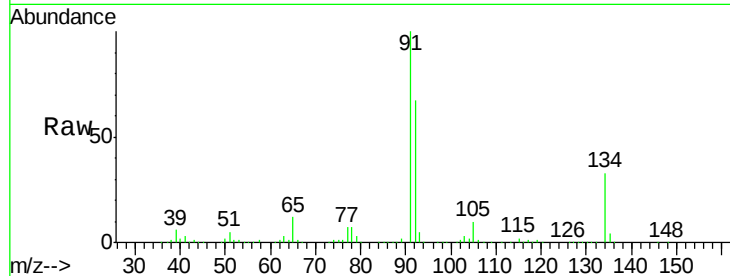
#89
n-Butylbenzene
Concen: 88.877 ug/l
RT: 12.87 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC100

Tot Ion: 91 Resp: 1114160
Ion Ratio Lower Upper
91 100
92 67.4 31.9 95.5
134 33.4 14.9 44.9

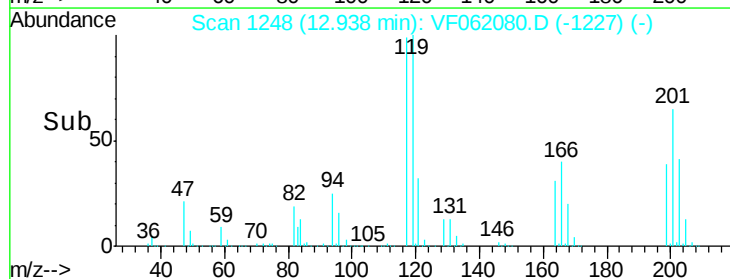
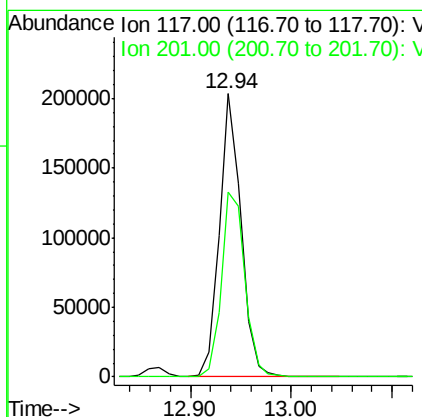
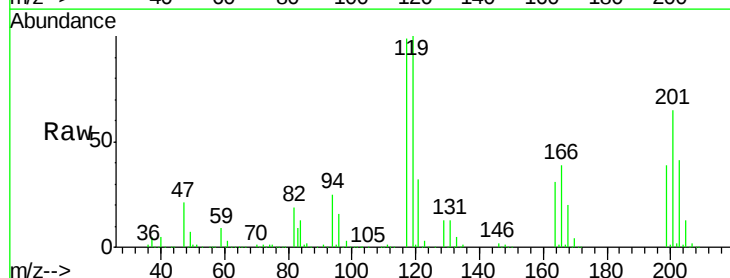
Manual Integrations
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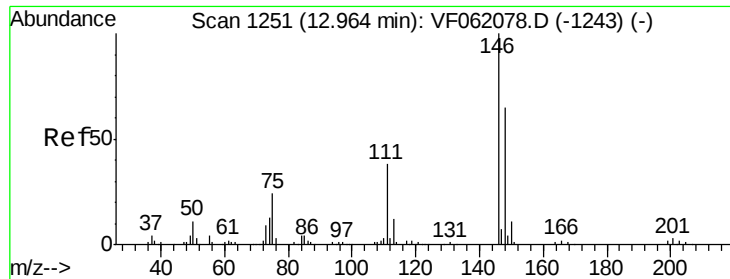
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#90
Hexachloroethane
Concen: 97.628 ug/l
RT: 12.94 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VF062080.D
Acq: 22 Mar 2019 13:22

Tgt Ion: 117 Resp: 305451
Ion Ratio Lower Upper
117 100
201 65.3 28.7 86.1





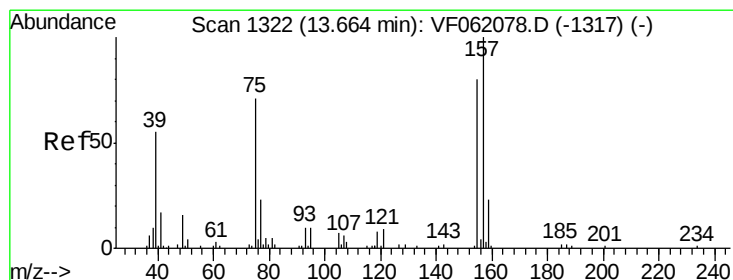
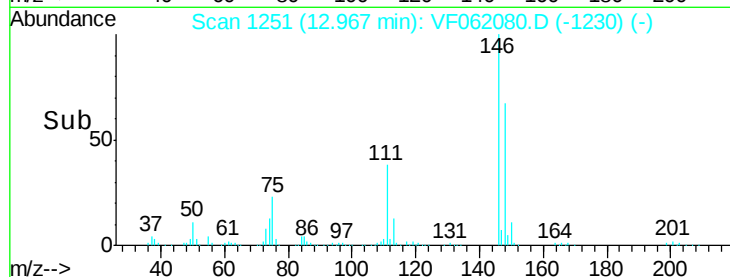
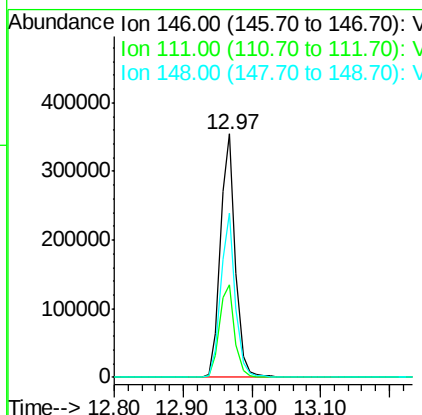
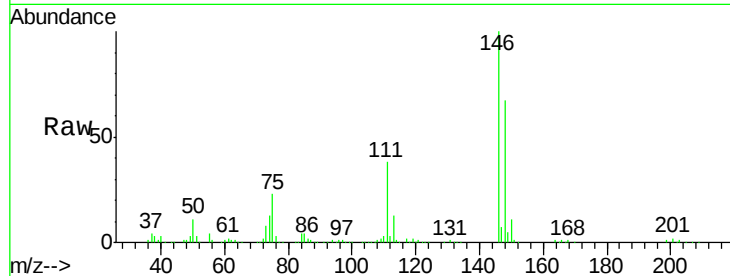
#91
 1,2-Dichlorobenzene
 Concen: 91.321 ug/l
 RT: 12.97 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	19.1	57.3
148	67.3	32.8	98.3

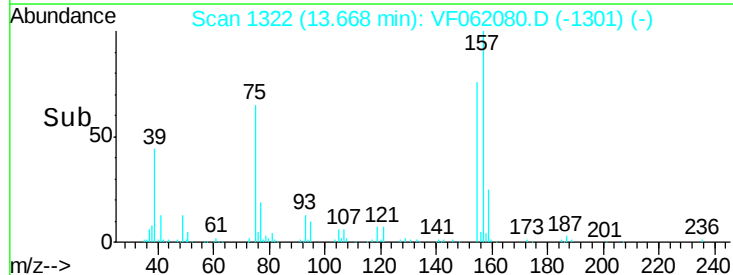
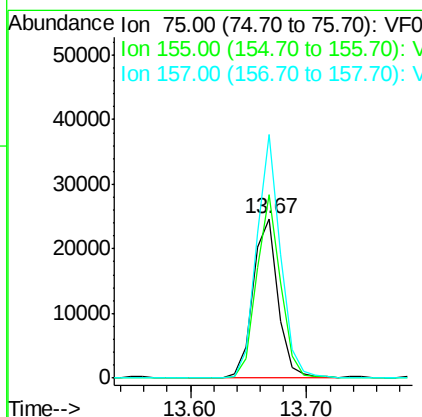
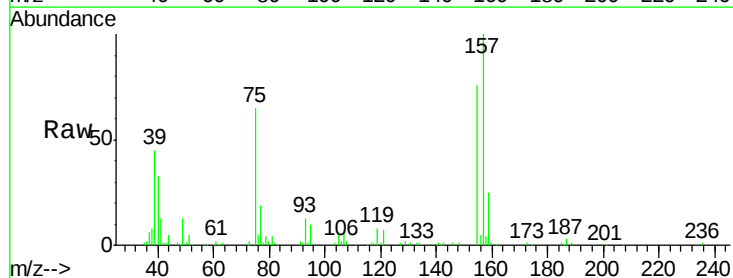
Manual Integrations
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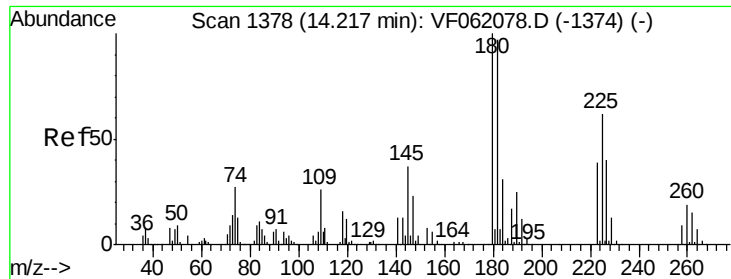
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 103.710 ug/l
 RT: 13.67 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Lower	Upper
75	100		
155	115.6	56.1	168.4
157	153.0	70.4	211.2





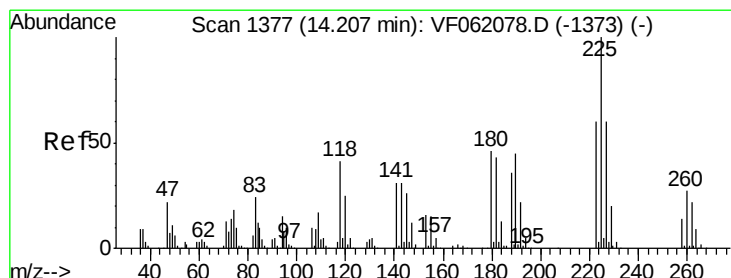
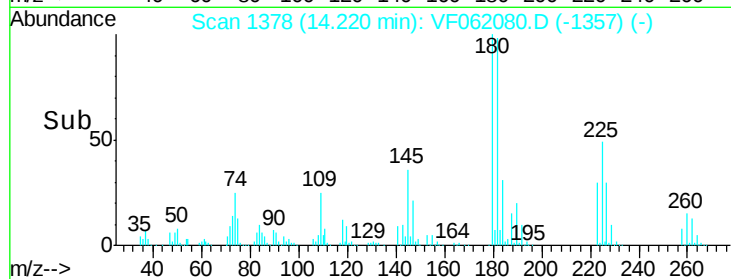
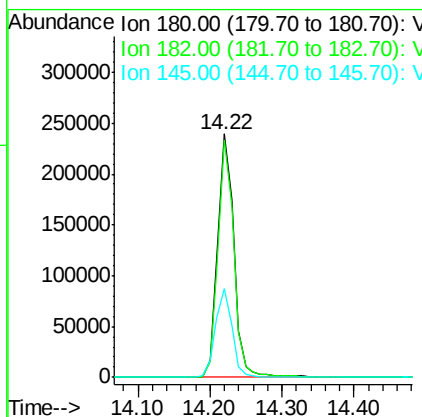
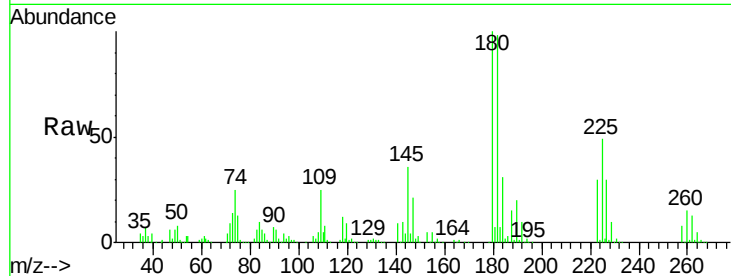
#93
 1,2,4-Trichlorobenzene
 Concen: 91.705 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC100

Tot Ion	Ratio	Resp	Lower	Upper
180	100	370898		
182	97.6	48.7	146.1	
145	36.2	18.3	54.8	

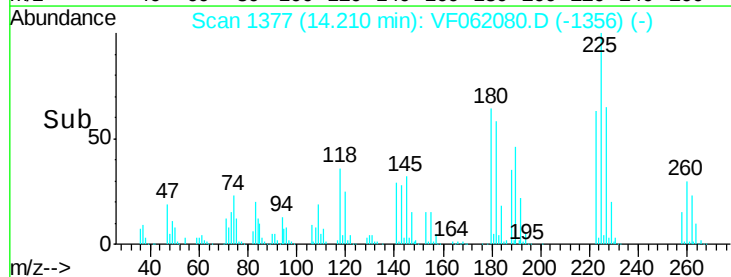
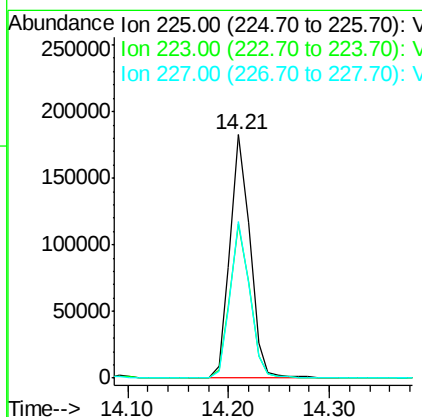
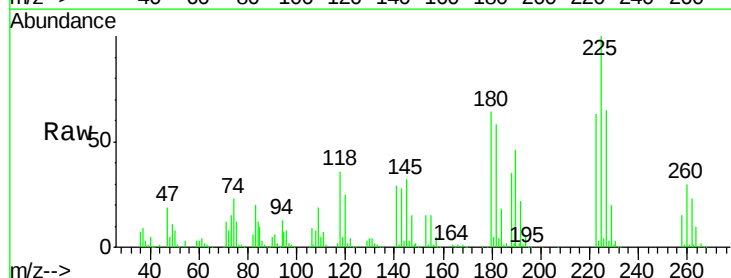
Manual Integrations
 APPROVED

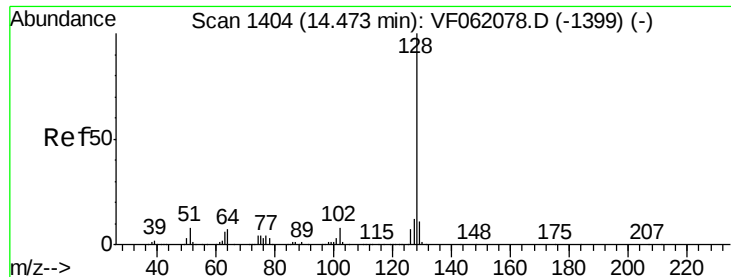
MMDadoda
 3/27/2019 11:57:13 AM



#94
 Hexachlorobutadiene
 Concen: 94.450 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. 0.00 min
 Lab File: VF062080.D
 Acq: 22 Mar 2019 13:22

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	253994		
223	63.4	30.0	90.0	
227	64.5	30.2	90.6	





#95

Naphthalene

Concen: 106.286 ug/l

RT: 14.48 min Scan# 1404

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Instrument :

MSVOA_F

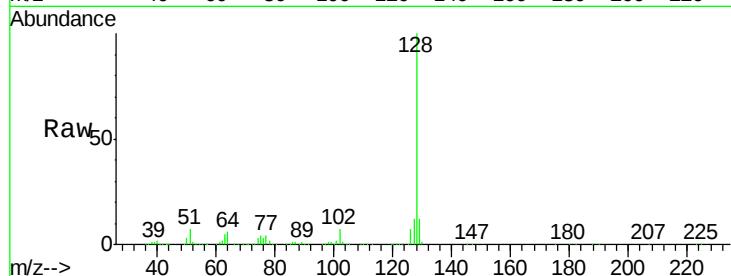
ClientSampleId :

VSTDIC100

Tot Ion:	128	Resp:	753312
Ion Ratio	Lower	Upper	
128	100		
127	12.2	9.5	14.3
129	11.7	8.7	13.1

Manual Integrations
APPROVED

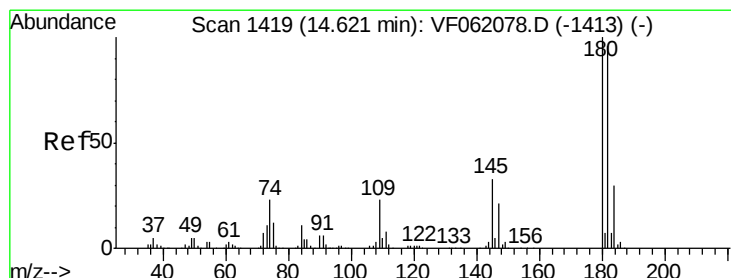
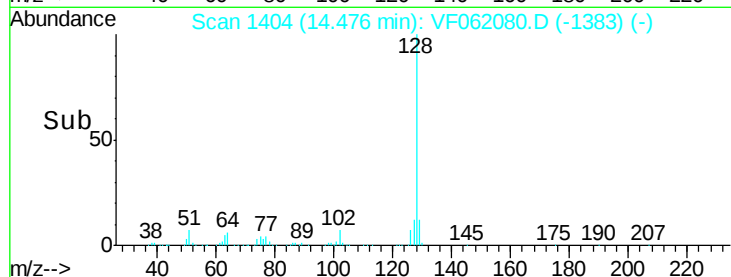
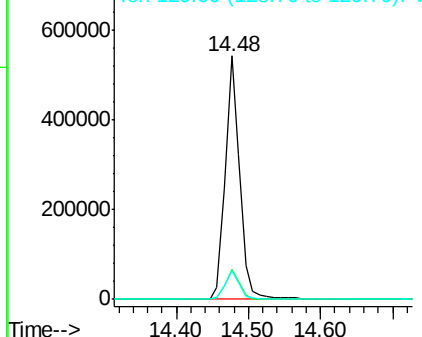
MMDadoda
3/27/2019 11:57:13 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 98.723 ug/l

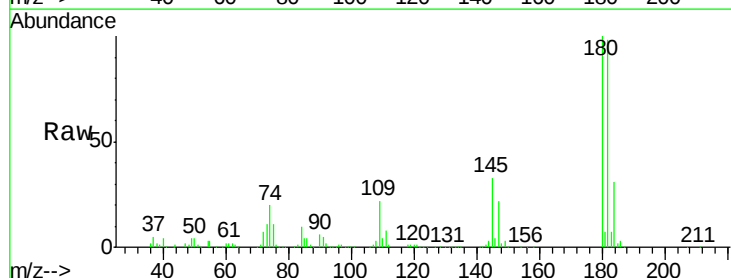
RT: 14.62 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VF062080.D

Acq: 22 Mar 2019 13:22

Tgt Ion:	180	Resp:	373751
Ion Ratio	Lower	Upper	
180	100		
182	97.9	47.9	143.7
145	32.5	16.6	49.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

