

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062077.D
 Acq On : 22 Mar 2019 11:56
 Operator : VA/AP
 Sample : VSTDIC020
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:10 AM

Quant Time: Mar 23 01:06:09 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	4.90	168	304102	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.63	114	468157	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.81	117	400435	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.57	152	215399	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.88	65	42010	18.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	37.14%	
35) Dibromofluoromethane	4.15	113	61079	19.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.58%	
50) Toluene-d8	7.58	98	187602	19.85	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	39.70%	
62) 4-Bromofluorobenzene	11.44	95	74448	20.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.80%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	85658	21.987	ug/l	99
3) Chloromethane	1.11	50	87127	21.374	ug/l	96
4) Vinyl Chloride	1.15	62	78912	20.928	ug/l	98
5) Bromomethane	1.36	94	51188	18.886	ug/l	96
6) Chloroethane	1.41	64	37161	19.578	ug/l	99
7) Trichlorofluoromethane	1.51	101	91584	20.940	ug/l	94
8) Diethyl Ether	1.64	74	21547	20.714	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.85	101	63652	20.489	ug/l	96
10) Methyl Iodide	1.93	142	119953m	20.708	ug/l	
11) Tert butyl alcohol	2.59	59	12398	99.618	ug/l #	92
12) 1,1-Dichloroethene	1.81	96	58944	20.108	ug/l	98
13) Acrolein	2.02	56	14819m	98.793	ug/l	
14) Allyl chloride	2.12	41	61876	19.771	ug/l	96
15) Acrylonitrile	2.96	53	45007	102.839	ug/l #	83
16) Acetone	2.25	43	46469	97.612	ug/l	98
17) Carbon Disulfide	1.84	76	182297	20.806	ug/l	98
18) Methyl Acetate	2.36	43	25135	22.288	ug/l	93
19) Methyl tert-butyl Ether	2.45	73	91561	19.763	ug/l	100
20) Methylene Chloride	2.20	84	65009m	20.441	ug/l	
21) trans-1,2-Dichloroethene	2.32	96	48062	17.642	ug/l	98
22) Diisopropyl ether	2.83	45	165450	20.164	ug/l	97
23) Vinyl Acetate	3.21	43	354974	105.662	ug/l	97
24) 1,1-Dichloroethane	2.90	63	97588	19.833	ug/l	99
25) 2-Butanone	4.37	43	98232	98.841	ug/l	95
26) 2,2-Dichloropropane	3.63	77	40229	20.164	ug/l	93
27) cis-1,2-Dichloroethene	3.50	96	79550	21.285	ug/l	98
28) Bromochloromethane	3.74	49	41544	20.664	ug/l	98
29) Tetrahydrofuran	4.11	42	45006	104.155	ug/l	96
30) Chloroform	3.89	83	104823	20.158	ug/l	100
31) Cyclohexane	3.72	56	105427m	21.832	ug/l	
32) 1,1,1-Trichloroethane	4.13	97	57544	18.191	ug/l	92
36) 1,1-Dichloropropene	4.32	75	89605	20.094	ug/l	94
37) Ethyl Acetate	4.15	43	36656	18.810	ug/l	97
38) Carbon Tetrachloride	4.02	117	60163	19.795	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.49	83	89016	17.200	ug/l	99
40) Benzene	4.66	78	241372	20.191	ug/l	99
41) Methacrylonitrile	4.78	41	20810	20.182	ug/l	91
42) 1,2-Dichloroethane	4.98	62	58021	20.525	ug/l	99
43) Isopropyl Acetate	6.99	43	46285	19.612	ug/l #	96
44) Trichloroethene	5.53	130	71133	19.463	ug/l	98
45) 1,2-Dichloropropane	6.26	63	59087	20.724	ug/l	97
46) Dibromomethane	6.11	93	34081	19.550	ug/l	89
47) Bromodichloromethane	6.42	83	76978	19.935	ug/l	98
48) Methyl methacrylate	6.74	41	27379	20.375	ug/l	97
49) 1,4-Dioxane	6.73	88	4722	400.470	ug/l	96
51) 4-Methyl-2-Pentanone	8.29	43	163506	103.509	ug/l	99
52) Toluene	7.65	92	138875	20.057	ug/l	99
53) t-1,3-Dichloropropene	8.31	75	61046	20.139	ug/l	98
54) cis-1,3-Dichloropropene	7.33	75	86665	19.981	ug/l	98
55) 1,1,2-Trichloroethane	8.52	97	39245	19.955	ug/l	98
56) Ethyl methacrylate	8.64	69	48450	20.656	ug/l	88
57) 1,3-Dichloropropane	8.88	76	66647	20.418	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.32	63	35321	99.239	ug/l	99
59) 2-Hexanone	9.52	43	123376	106.567	ug/l	96
60) Dibromochloromethane	8.74	129	56342	20.607	ug/l	93
61) 1,2-Dibromoethane	9.01	107	42923	20.457	ug/l	98
64) Tetrachloroethene	8.18	164	61529	19.889	ug/l	90
65) Chlorobenzene	9.83	112	150316	20.062	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.96	131	59257	19.689	ug/l	97
67) Ethyl Benzene	9.93	91	262302	20.131	ug/l	98
68) m/p-Xylenes	10.16	106	201975	41.473	ug/l	97
69) o-Xylene	10.74	106	106106	20.802	ug/l	98
70) Styrene	10.81	104	161501	20.897	ug/l	98
71) Bromoform	10.79	173	32189	20.911	ug/l	97
73) Isopropylbenzene	11.15	105	304316	20.078	ug/l	99
74) N-amyl acetate	11.40	43	73167	20.259	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.71	83	50446	19.384	ug/l	96
76) 1,2,3-Trichloropropane	11.81	75	37027	20.217	ug/l	91
77) Bromobenzene	11.51	156	75617	20.420	ug/l	84
78) n-propylbenzene	11.61	91	365956	20.793	ug/l	96
79) 2-Chlorotoluene	11.74	91	192660	19.695	ug/l	99
80) 1,3,5-Trimethylbenzene	11.84	105	249259	19.993	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.89	75	14799m	14.982	ug/l	
82) 4-Chlorotoluene	11.92	91	195133	19.455	ug/l	96
83) tert-Butylbenzene	12.15	119	267375	20.487	ug/l	96
84) 1,2,4-Trimethylbenzene	12.22	105	237967	19.471	ug/l	99
85) sec-Butylbenzene	12.32	105	329274	19.503	ug/l	97
86) p-Isopropyltoluene	12.48	119	283373	19.373	ug/l	99
87) 1,3-Dichlorobenzene	12.49	146	137688	20.013	ug/l	96
88) 1,4-Dichlorobenzene	12.59	146	132234	19.697	ug/l	99
89) n-Butylbenzene	12.87	91	290236	20.798	ug/l	96
90) Hexachloroethane	12.93	117	68507	19.669	ug/l	99
91) 1,2-Dichlorobenzene	12.96	146	129528	20.050	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.66	75	7947	20.154	ug/l	93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	88344	19.622	ug/l	99
94) Hexachlorobutadiene	14.21	225	58006	19.376	ug/l	98
95) Naphthalene	14.47	128	152253	19.297	ug/l	98
96) 1,2,3-Trichlorobenzene	14.62	180	81581	19.357	ug/l	99

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

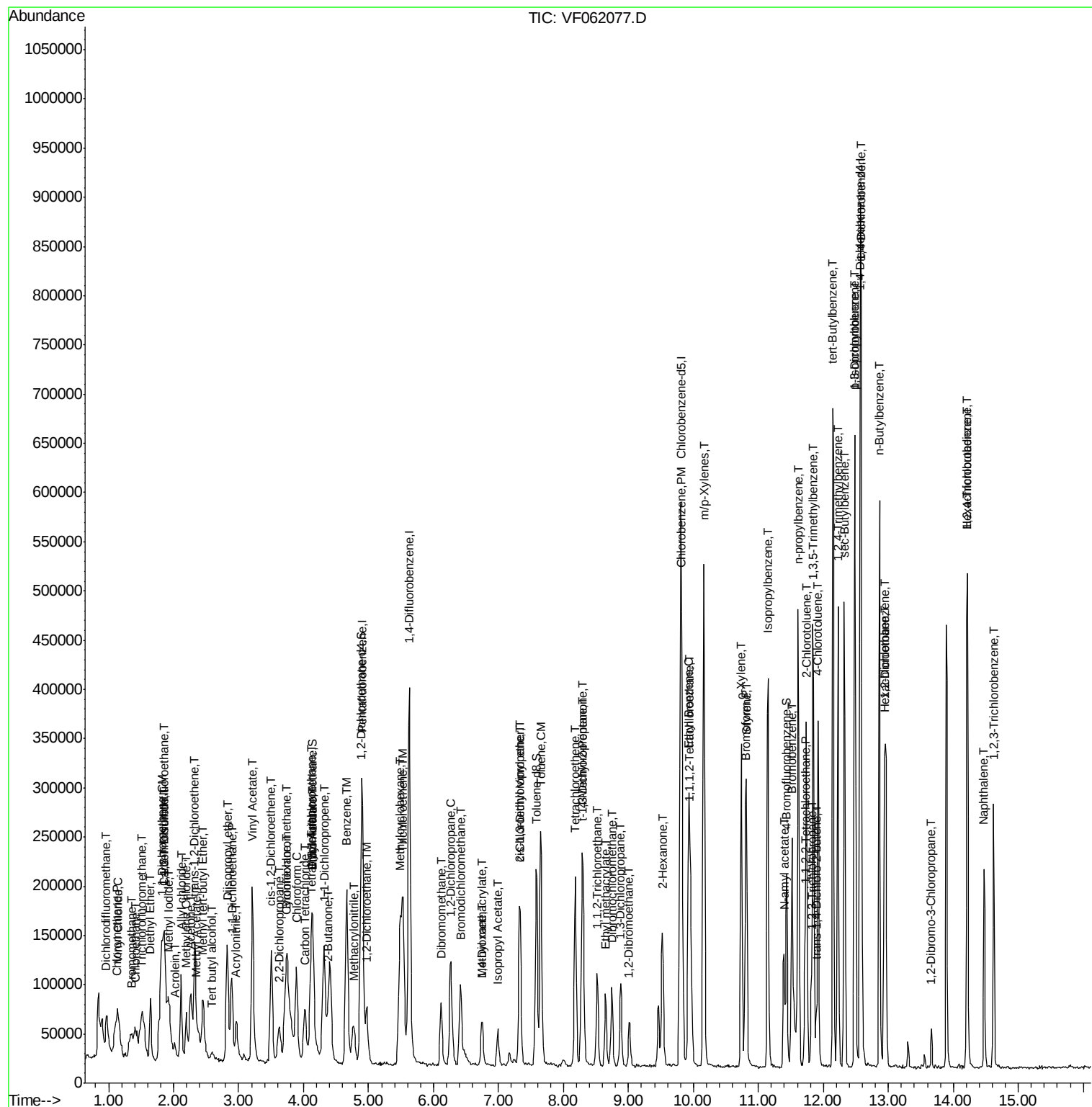
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032219\
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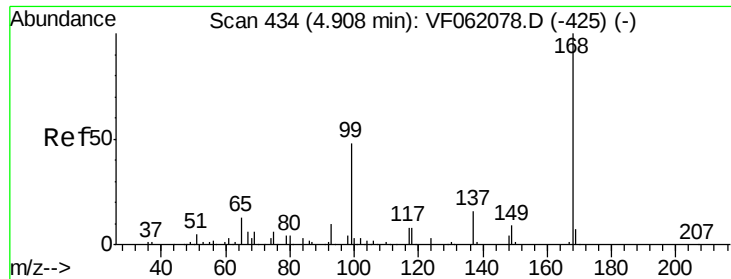
Instrument :
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#1

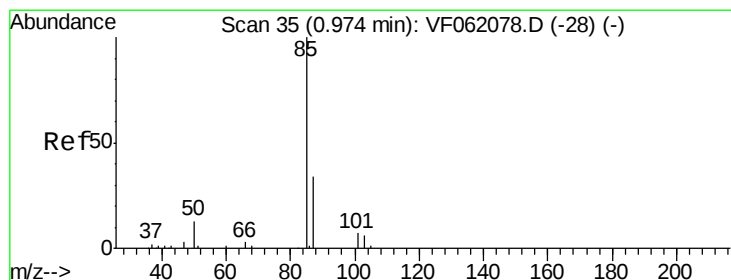
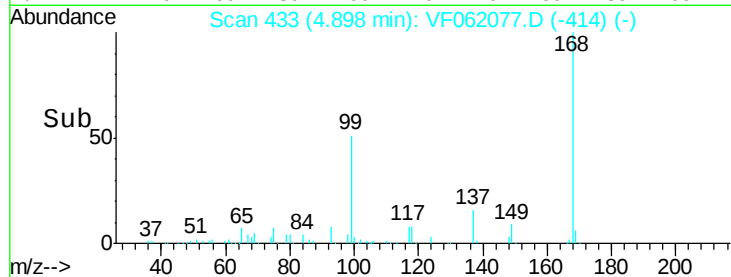
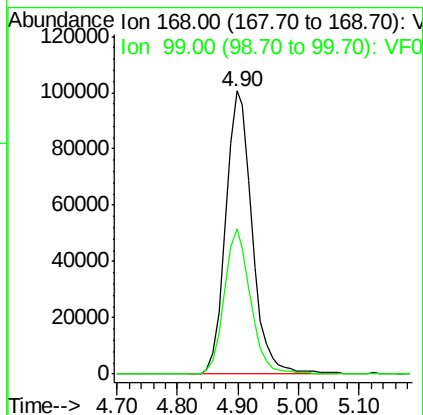
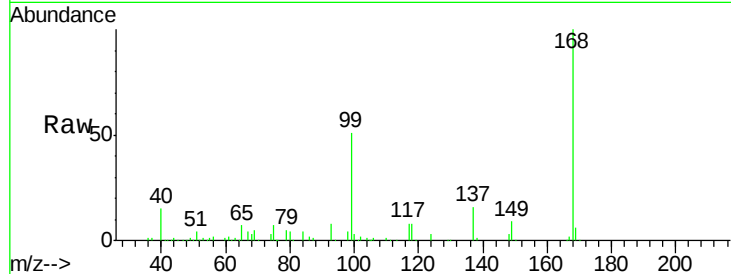
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 4.90 min Scan# 433
 Delta R.T. -0.01 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

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 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
168	100		304102		
99	51.3	38.2	57.4		

Manual Integrations
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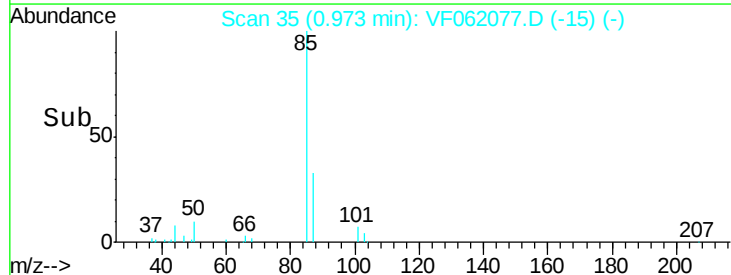
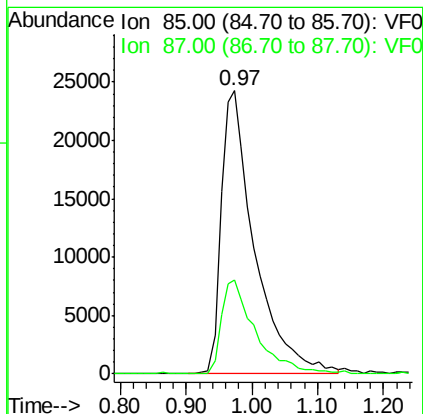
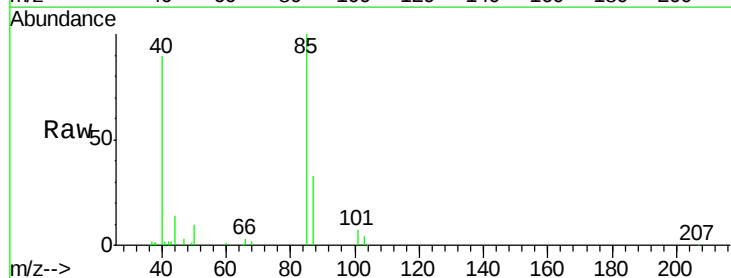
MMDadoda
 3/27/2019 11:57:10 AM

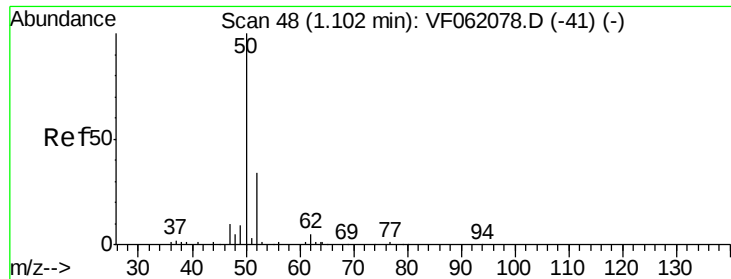


#2

Dichlorodifluoromethane
 Concen: 21.987 ug/l
 RT: 0.97 min Scan# 35
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
85	100		85658		
87	33.3	17.0	51.0		





#3

Chloromethane

Concen: 21.374 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 87127

Ion Ratio Lower Upper

50 100

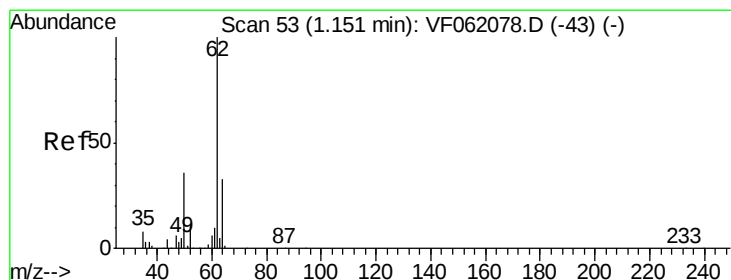
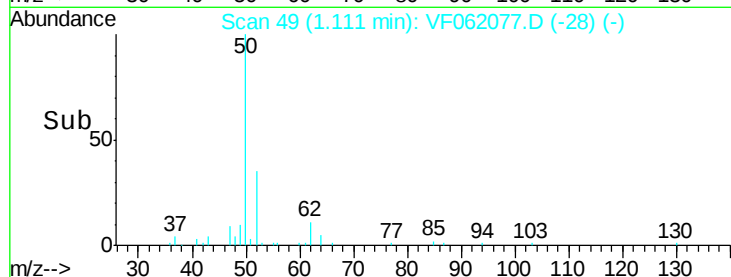
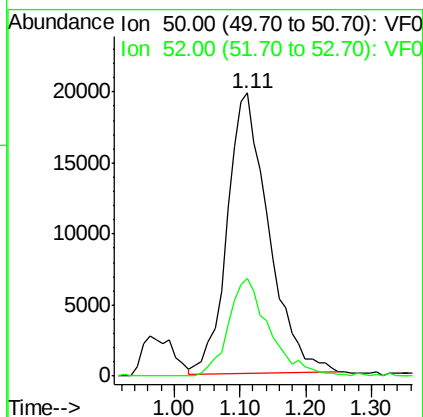
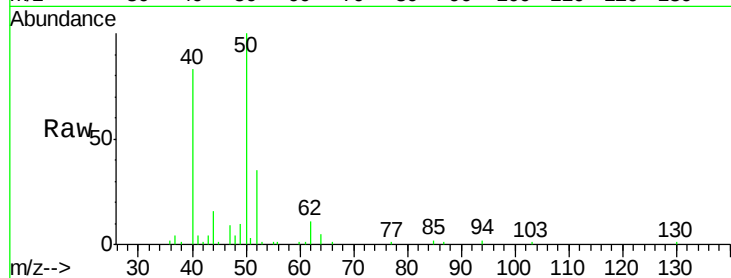
52 34.8 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.928 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF062077.D

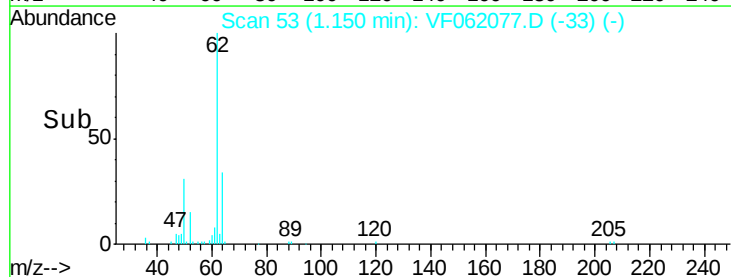
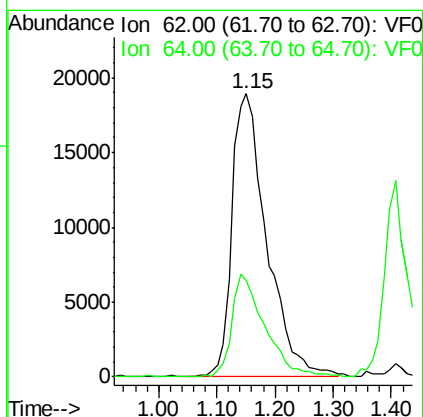
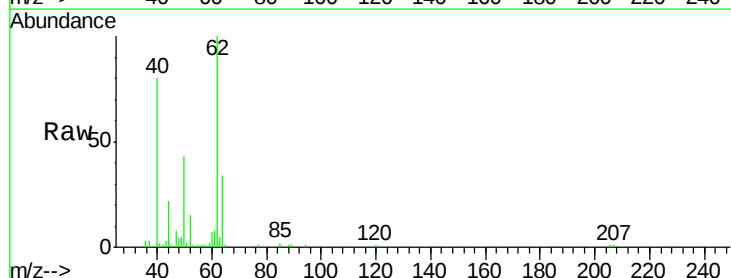
Acq: 22 Mar 2019 11:56

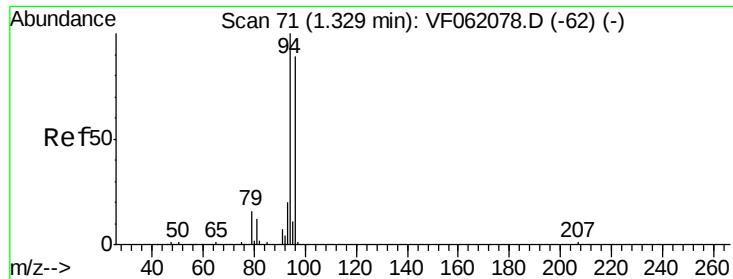
Tgt Ion: 62 Resp: 78912

Ion Ratio Lower Upper

62 100

64 33.9 26.2 39.2





#5

Bromomethane

Concen: 18.886 ug/l

RT: 1.36 min Scan# 74

Delta R.T. 0.03 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

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ClientSampleId :

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Tot Ion: 94 Resp: 51188

Ion Ratio Lower Upper

94 100

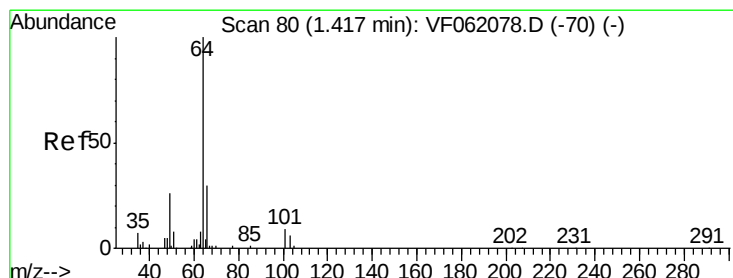
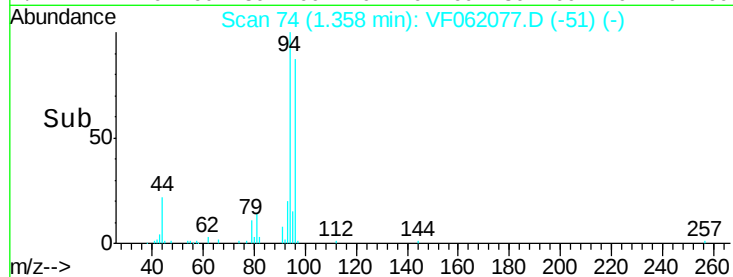
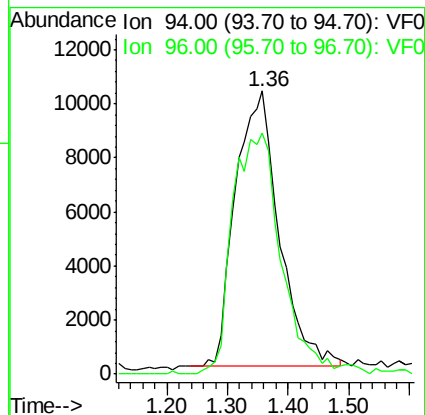
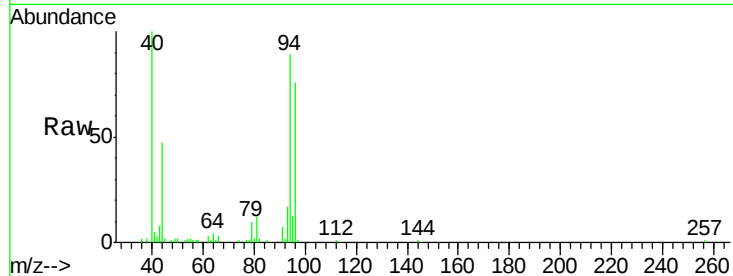
96 85.3 70.9 106.3

Manual Integrations

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#6

Chloroethane

Concen: 19.578 ug/l

RT: 1.41 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF062077.D

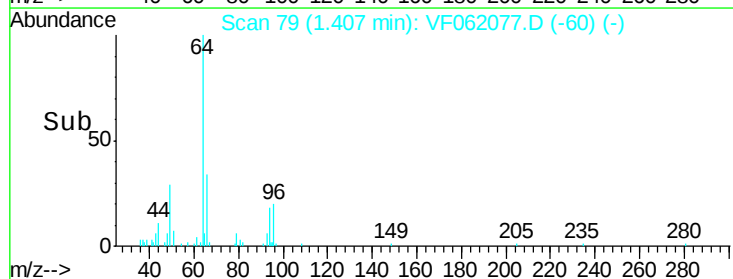
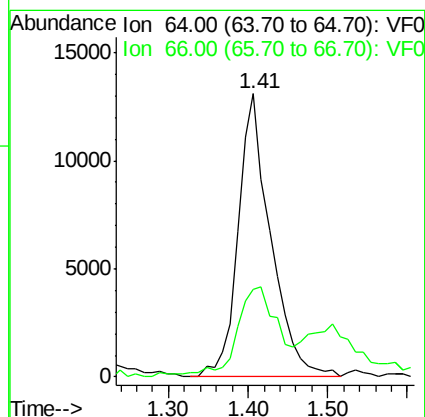
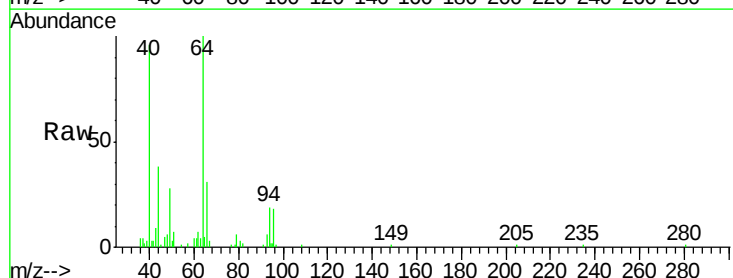
Acq: 22 Mar 2019 11:56

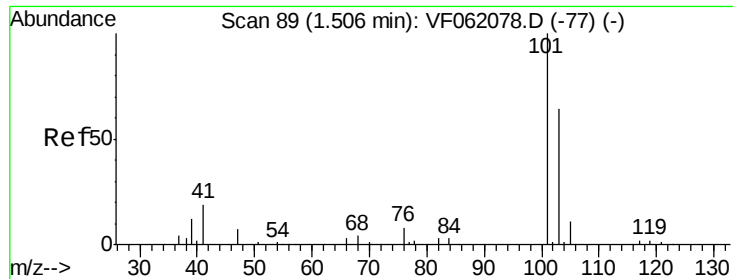
Tgt Ion: 64 Resp: 37161

Ion Ratio Lower Upper

64 100

66 31.2 24.5 36.7





#7

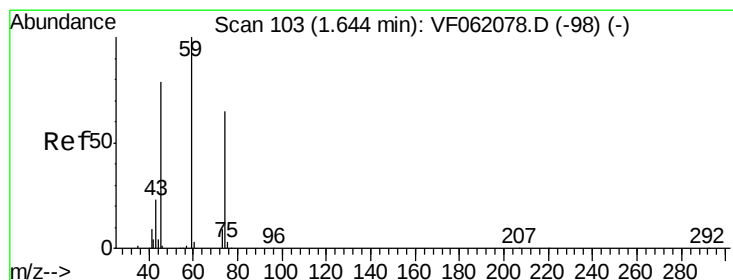
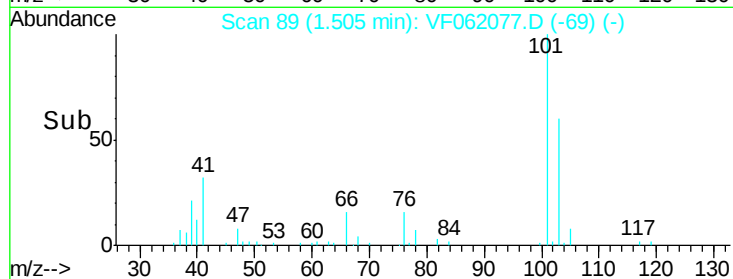
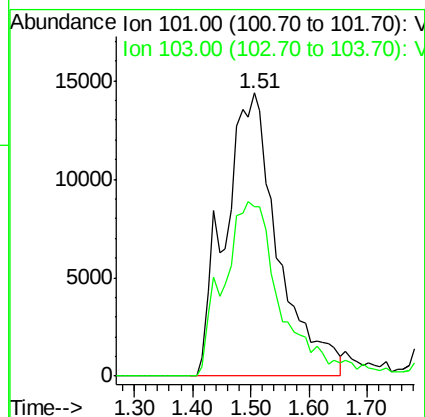
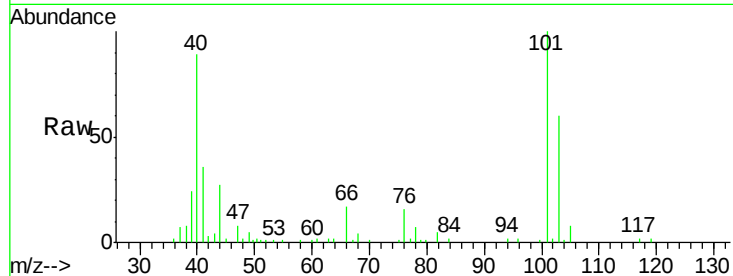
Trichlorofluoromethane
 Concen: 20.940 ug/l
 RT: 1.51 min Scan# 89
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

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Tot Ion:101 Resp: 91584
 Ion Ratio Lower Upper
 101 100
 103 59.9 51.5 77.3

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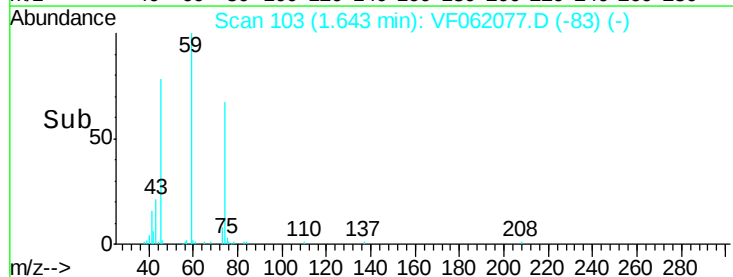
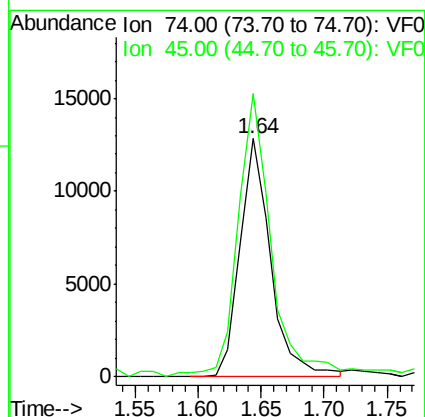
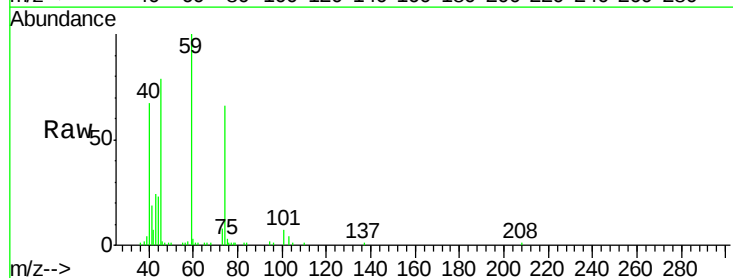
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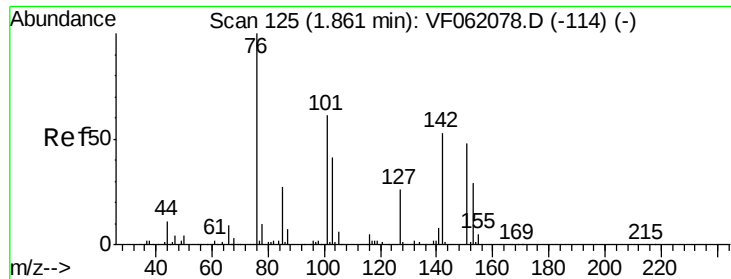


#8

Diethyl Ether
 Concen: 20.714 ug/l
 RT: 1.64 min Scan# 103
 Delta R.T. -0.00 min
 Lab File: VF062077.D
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Tgt Ion: 74 Resp: 21547
 Ion Ratio Lower Upper
 74 100
 45 118.9 61.4 184.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.489 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

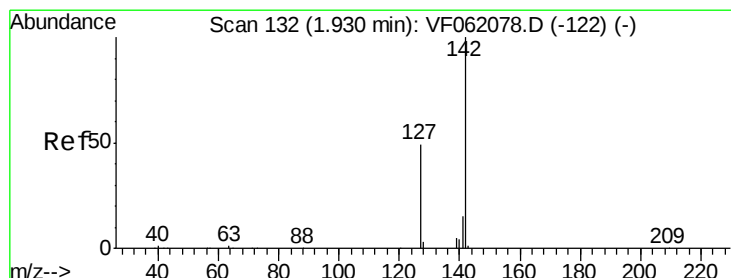
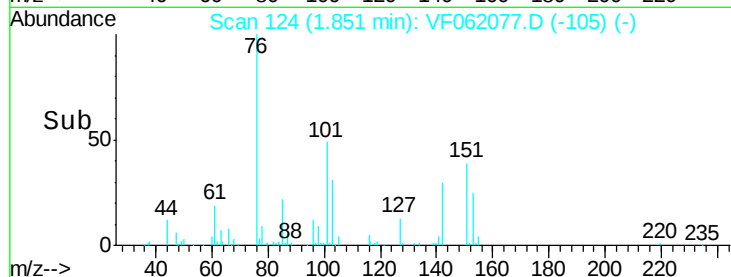
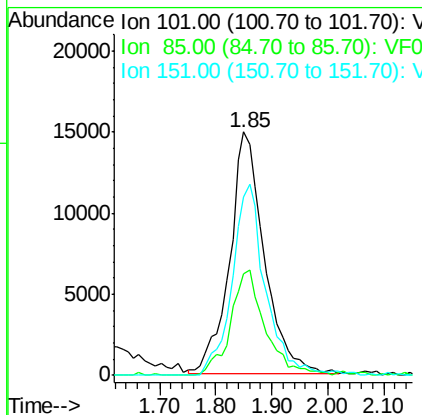
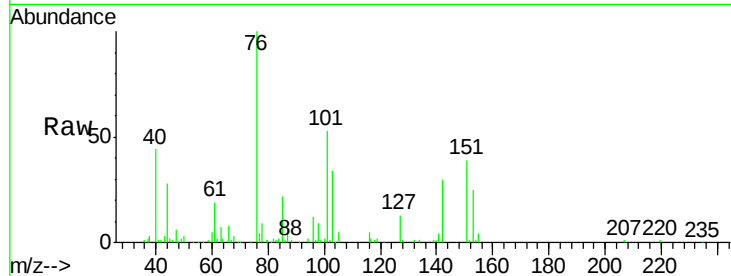
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	63652
Ion Ratio	Lower	Upper	
101	100		
85	41.7	34.6	52.0
151	73.1	61.7	92.5

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#10

Methyl Iodide

Concen: 20.708 ug/l m

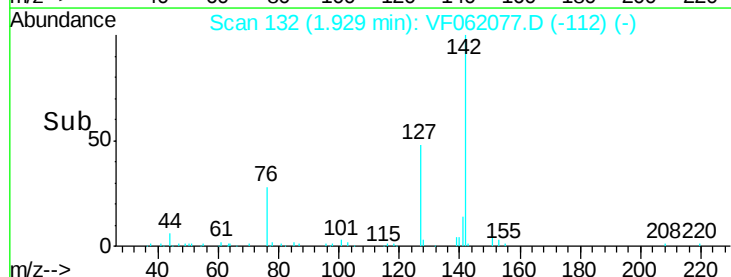
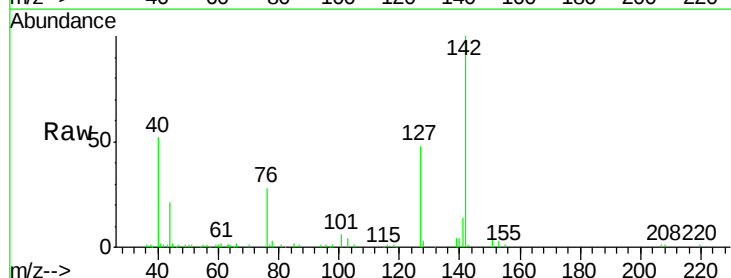
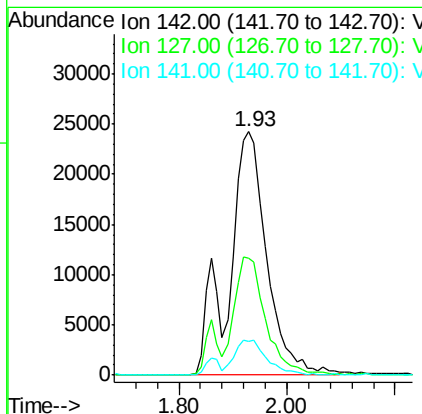
RT: 1.93 min Scan# 132

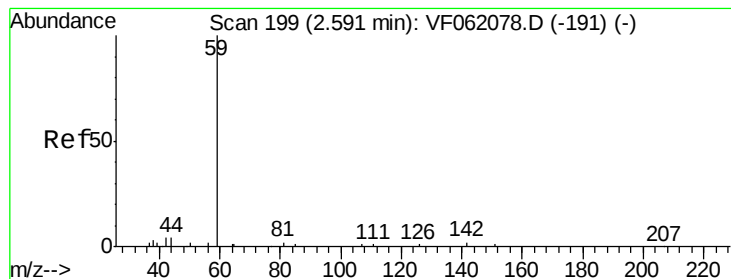
Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion:	142	Resp:	119953
Ion Ratio	Lower	Upper	
142	100		
127	48.0	39.1	58.7
141	13.8	12.2	18.4





#11

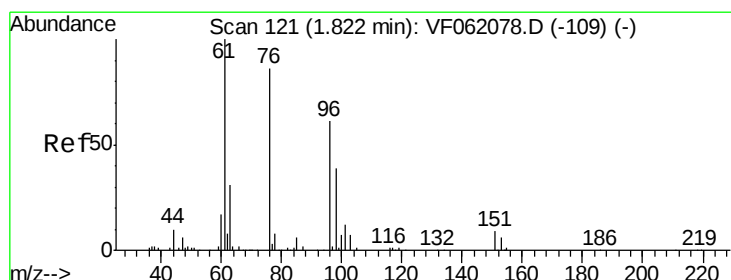
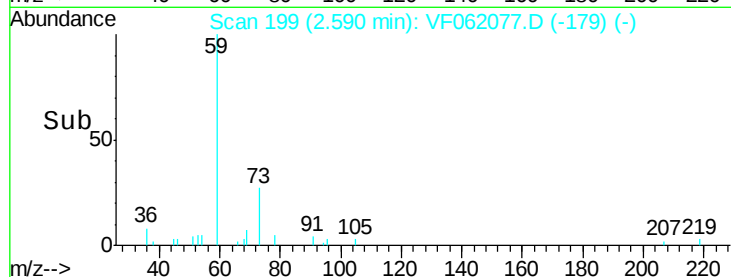
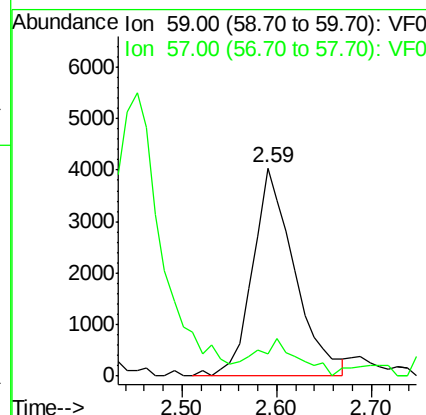
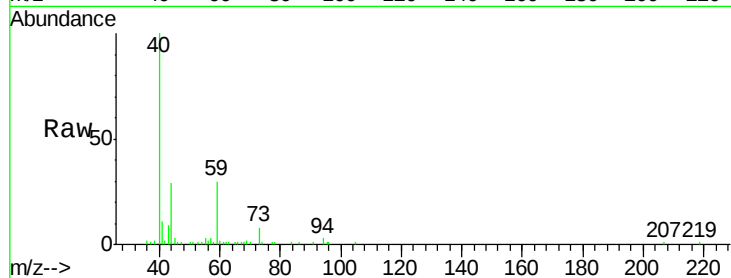
Tert butyl alcohol
Concen: 99.618 ug/l
RT: 2.59 min Scan# 199
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	59	Resp	12398
Ion Ratio	100	Lower	Upper
57	10.5	11.0	16.4#

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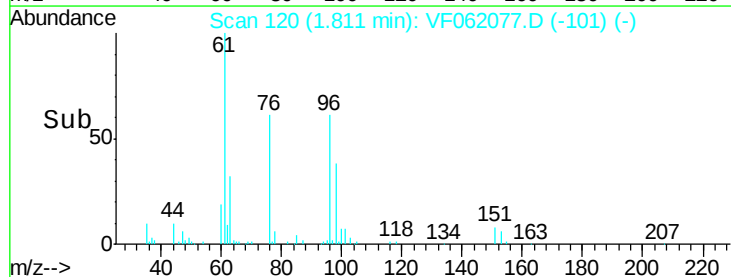
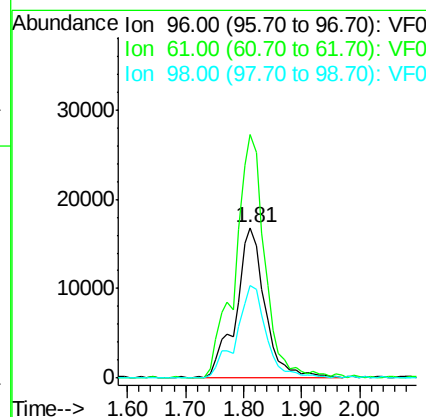
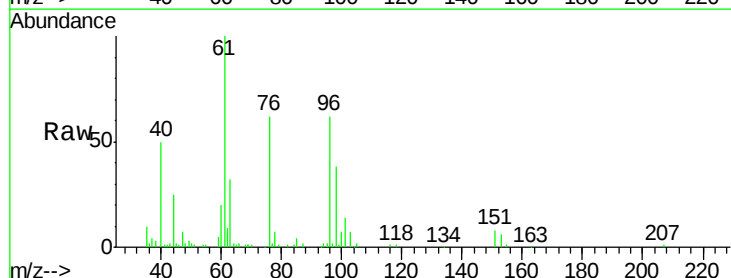
MMDadoda
3/27/2019 11:57:10 AM

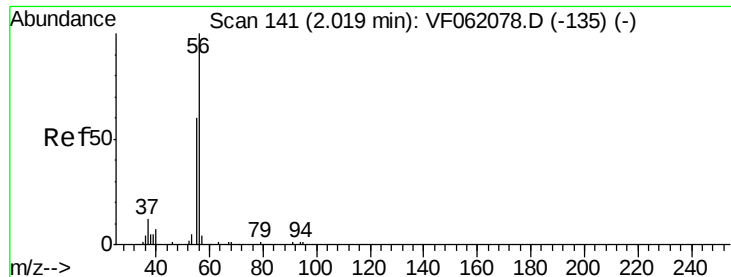


#12

1,1-Dichloroethene
Concen: 20.108 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	96	Resp	58944
Ion Ratio	100	Lower	Upper
61	161.6	131.0	196.6
98	61.2	51.5	77.3





#13

Acrolein

Concen: 98.793 ug/l m

RT: 2.02 min Scan# 141

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 14819

Ion Ratio Lower Upper

56 100

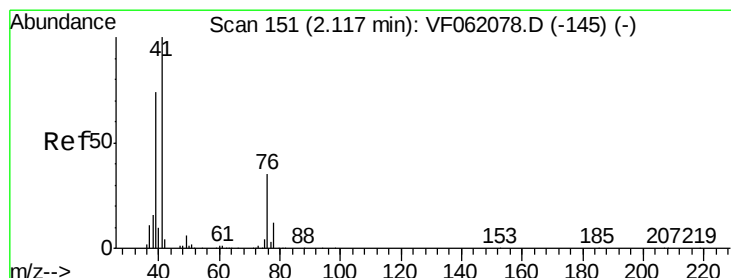
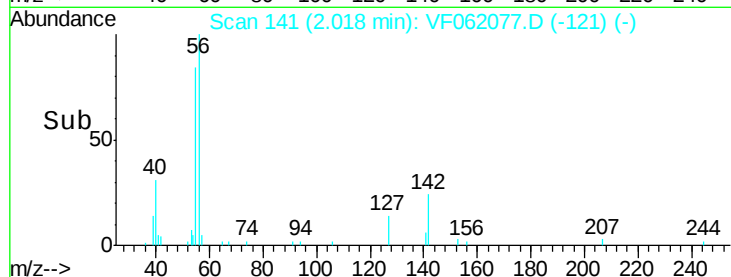
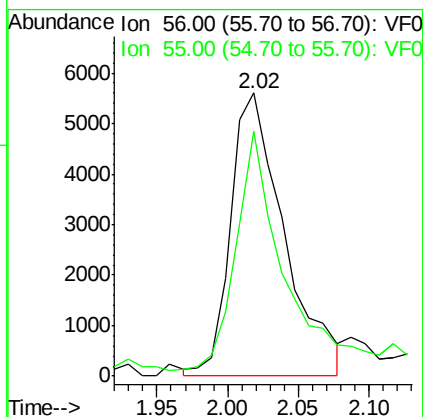
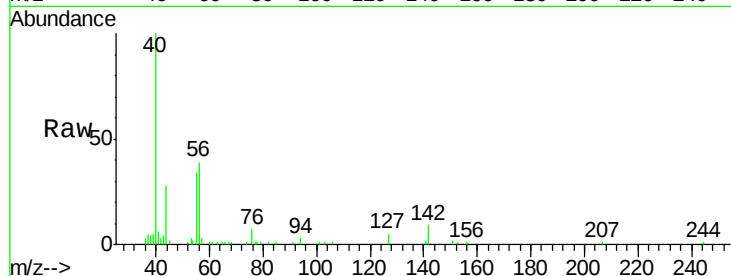
55 86.5 49.0 73.4#

Manual Integrations

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3/27/2019 11:57:10 AM



#14

Allyl chloride

Concen: 19.771 ug/l

RT: 2.12 min Scan# 151

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

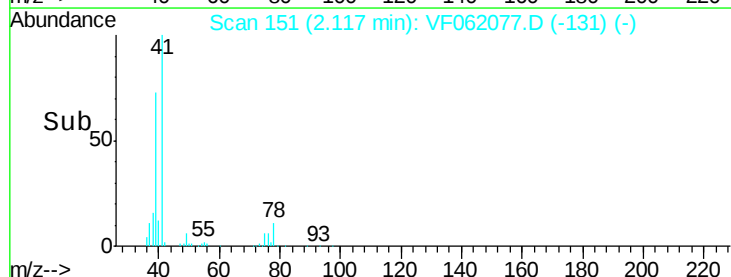
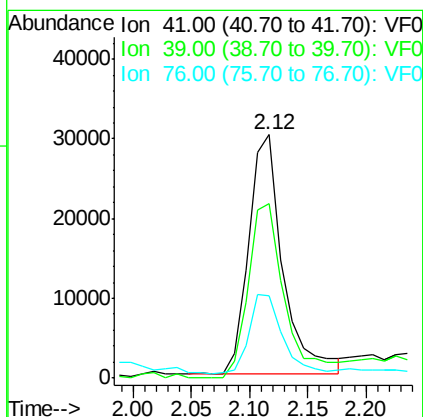
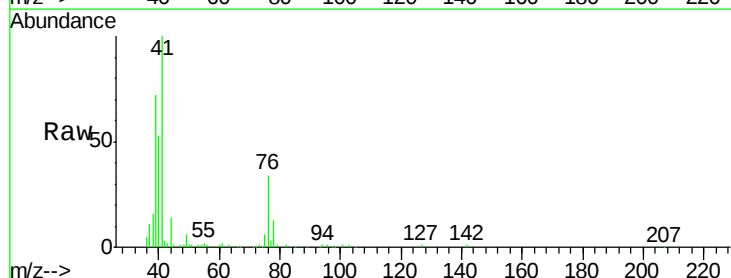
Tgt Ion: 41 Resp: 61876

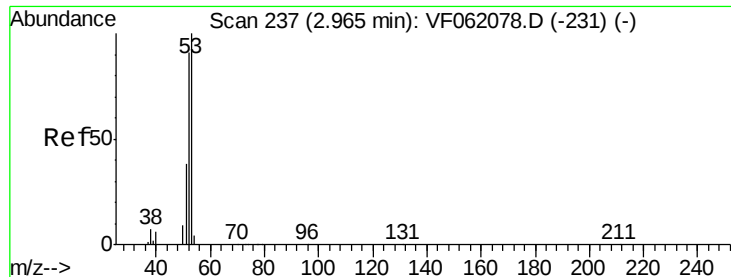
Ion Ratio Lower Upper

41 100

39 71.7 59.8 89.8

76 34.0 30.0 45.0





#15

Acrylonitrile

Concen: 102.839 ug/l

RT: 2.96 min Scan# 237

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

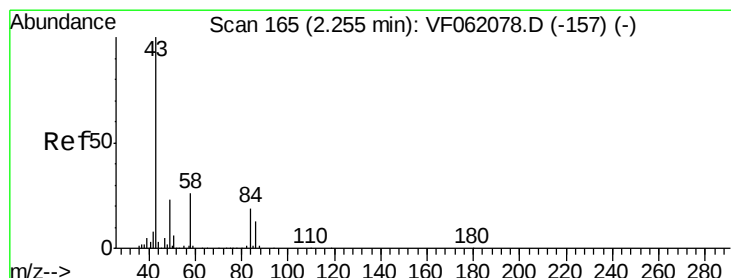
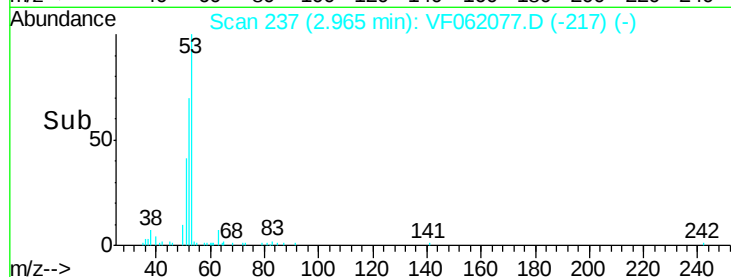
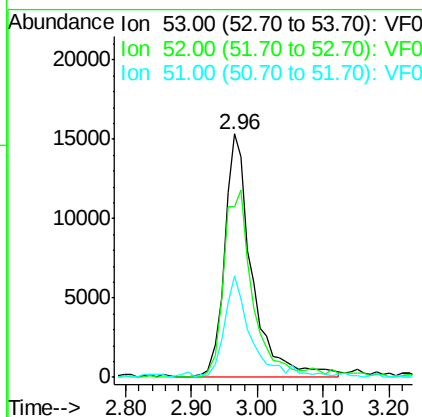
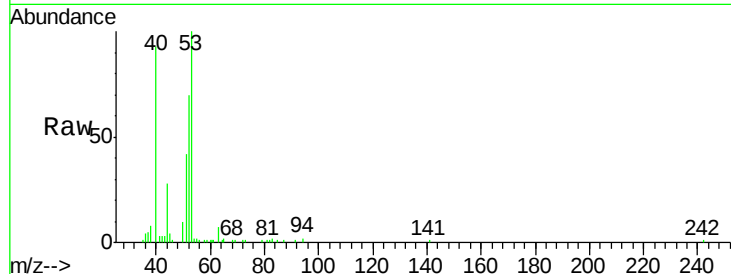
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	45007
Ion	Ratio	Lower	Upper
53	100		
52	70.0	72.3	108.5#
51	41.9	30.4	45.6

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#16

Acetone

Concen: 97.612 ug/l

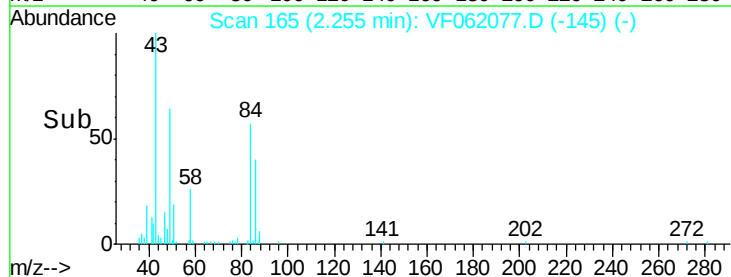
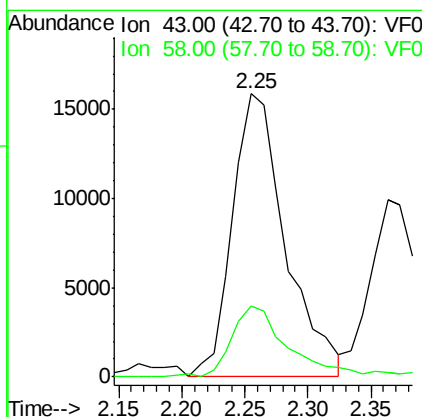
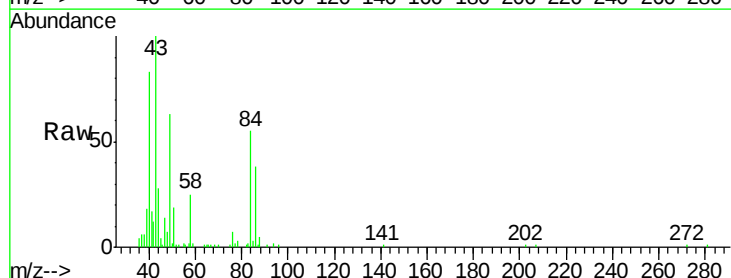
RT: 2.25 min Scan# 165

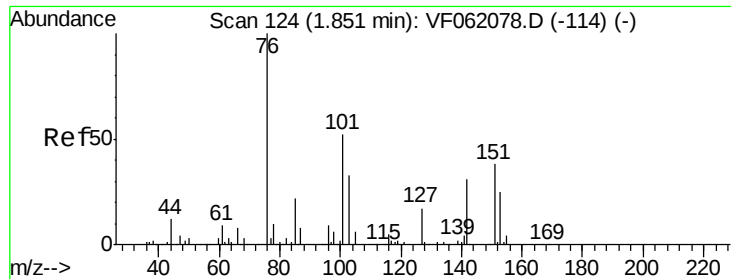
Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion:	43	Resp:	46469
Ion	Ratio	Lower	Upper
43	100		
58	25.2	20.8	31.2





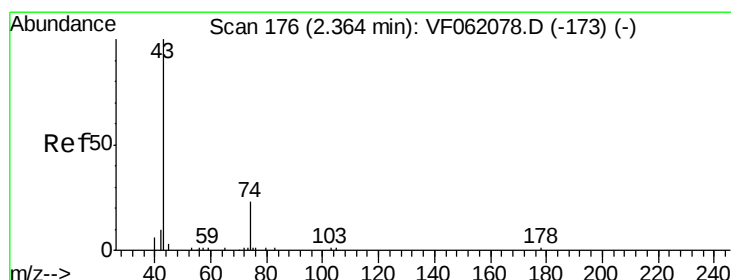
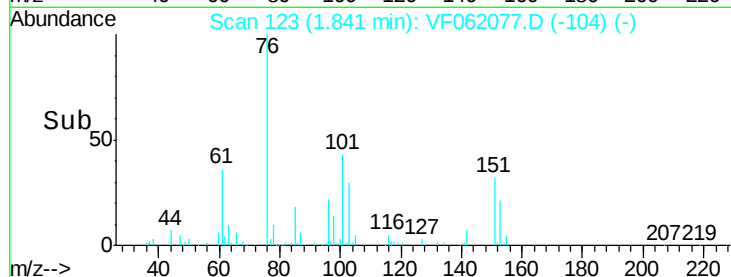
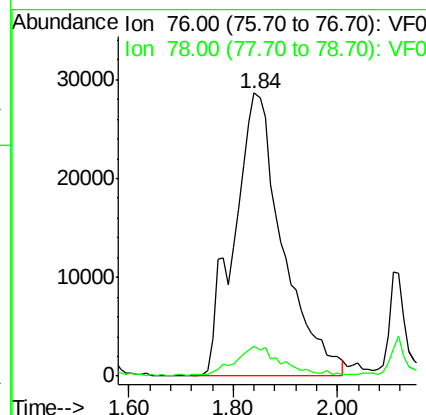
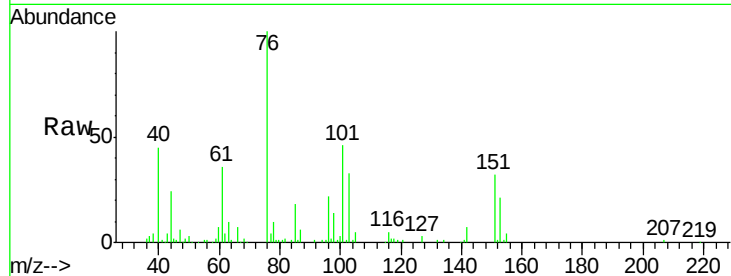
#17
Carbon Disulfide
Concen: 20.806 ug/l
RT: 1.84 min Scan# 123
Delta R.T. -0.01 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	76	Resp	182297
Ion Ratio	100	Lower	Upper
76	100		
78	10.5	7.9	11.9

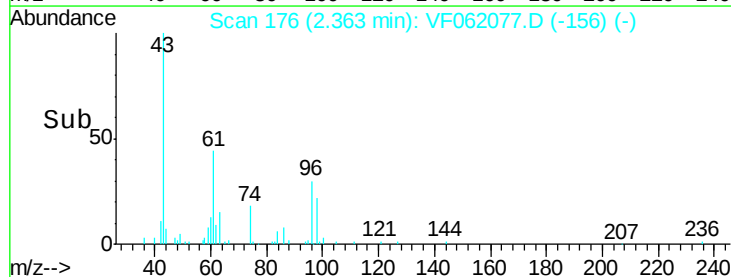
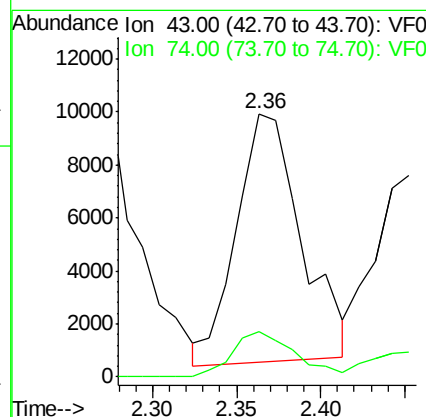
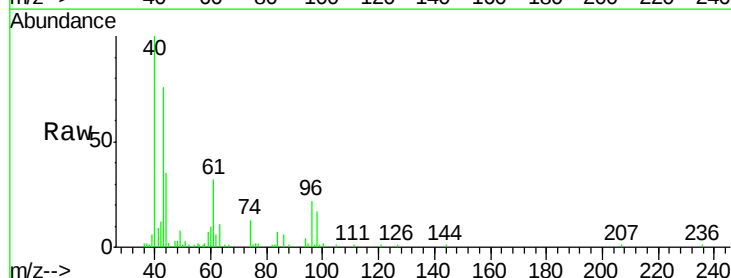
Manual Integrations
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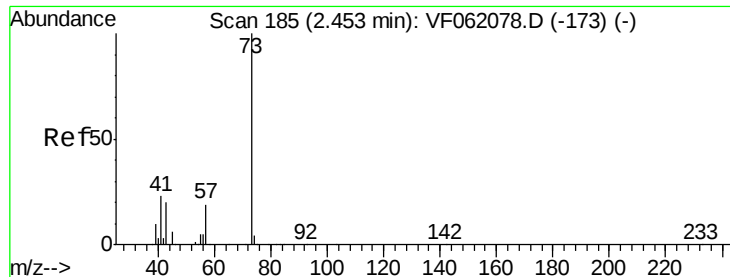
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#18
Methyl Acetate
Concen: 22.288 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	43	Resp	25135
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
74	17.1	16.3	24.5





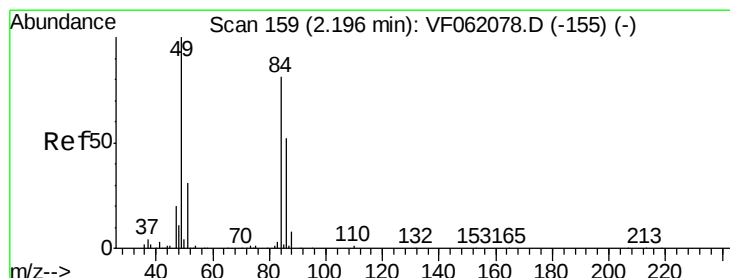
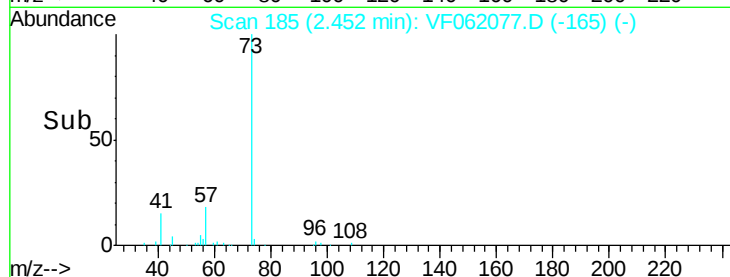
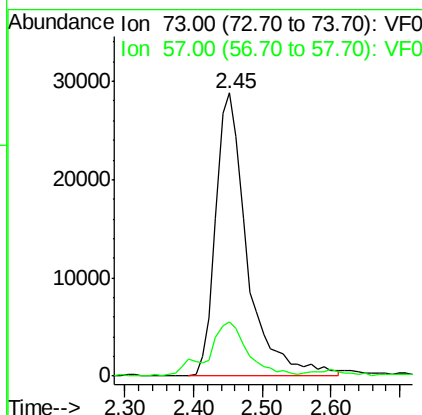
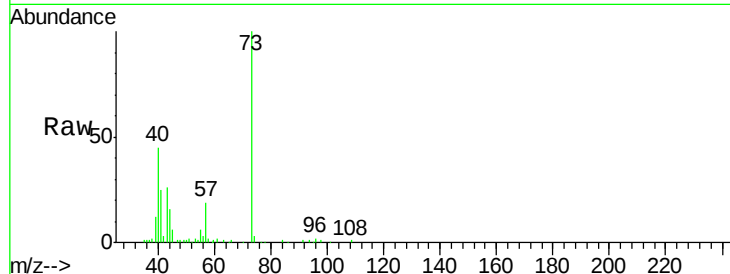
#19
Methvl tert-butvl Ether
Concen: 19.763 ug/l
RT: 2.45 min Scan# 185
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 91561
Ion Ratio Lower Upper
73 100
57 19.1 15.1 22.7

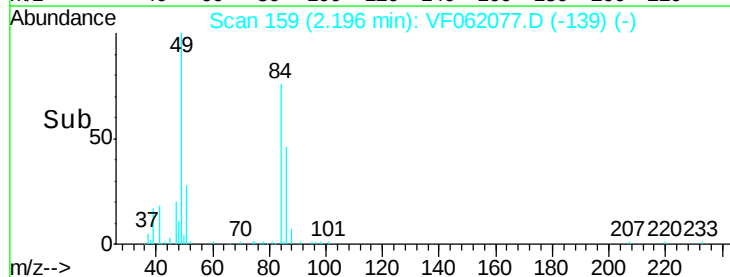
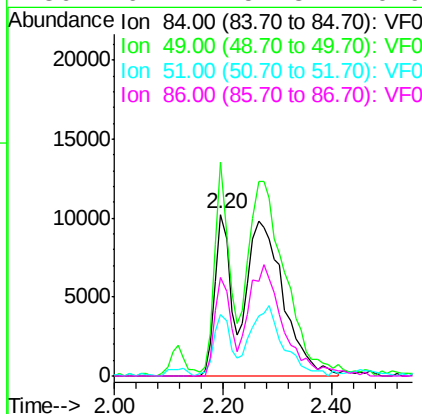
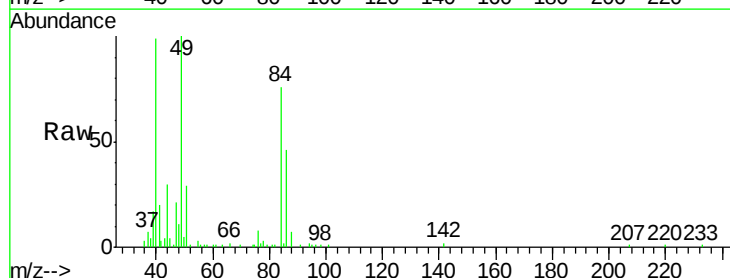
Manual Integrations
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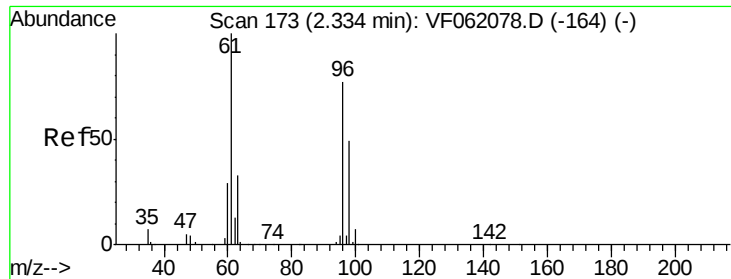
MMDadoda
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#20
Methylene Chloride
Concen: 20.441 ug/l m
RT: 2.20 min Scan# 159
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion: 84 Resp: 65009
Ion Ratio Lower Upper
84 100
49 132.3 100.4 150.6
51 38.0 31.0 46.6
86 61.2 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 17.642 ug/l

RT: 2.32 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

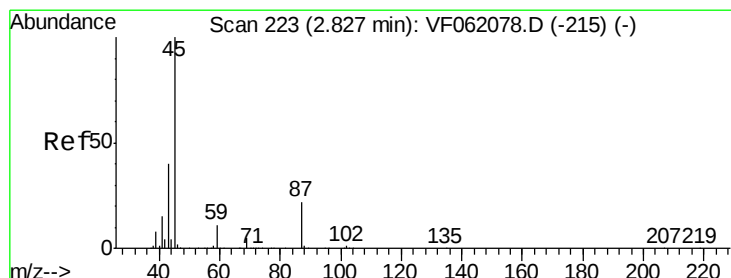
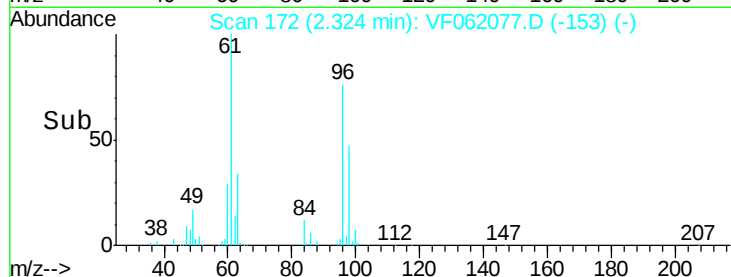
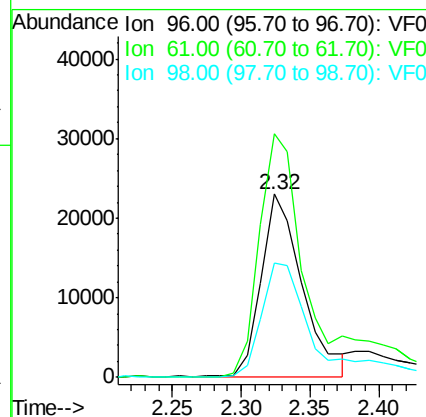
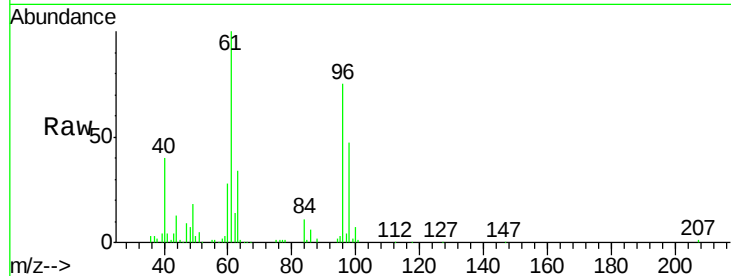
ClientSampleId :

VSTDIC020

Tot Ion:	96	Resp:	48062
Ion	Ratio	Lower	Upper
96	100		
61	133.1	104.5	156.7
98	62.5	51.2	76.8

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#22

Diisopropyl ether

Concen: 20.164 ug/l

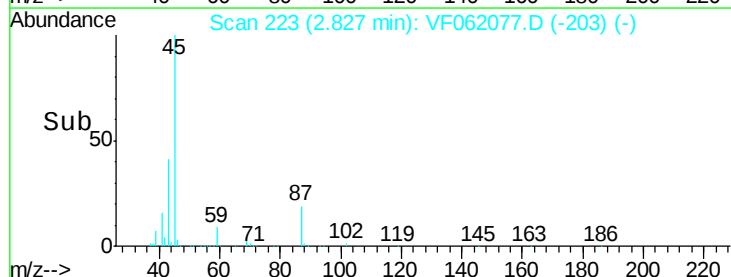
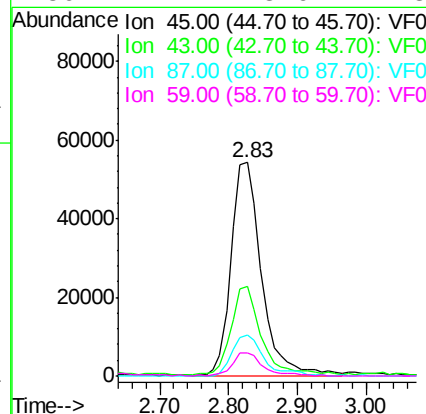
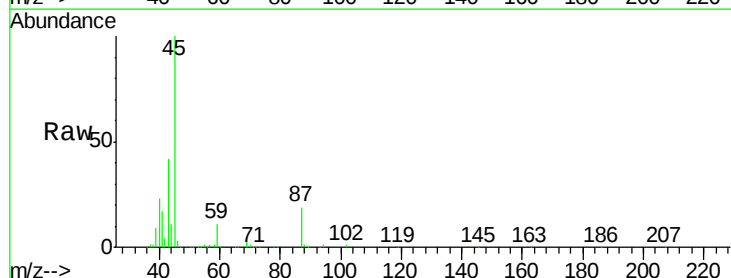
RT: 2.83 min Scan# 223

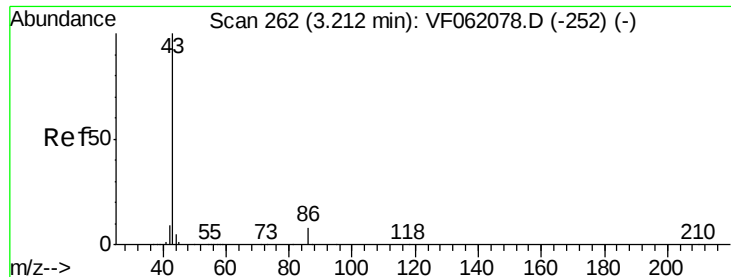
Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion:	45	Resp:	165450
Ion	Ratio	Lower	Upper
45	100		
43	41.7	32.5	48.7
87	19.0	17.4	26.2
59	11.1	8.6	12.8





#23

Vinyl Acetate

Concen: 105.662 ug/l

RT: 3.21 min Scan# 262

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 354974

Ion Ratio Lower Upper

43 100

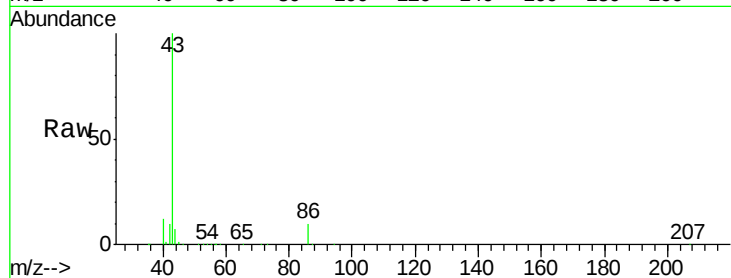
86 9.7 6.8 10.2

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

150000

100000

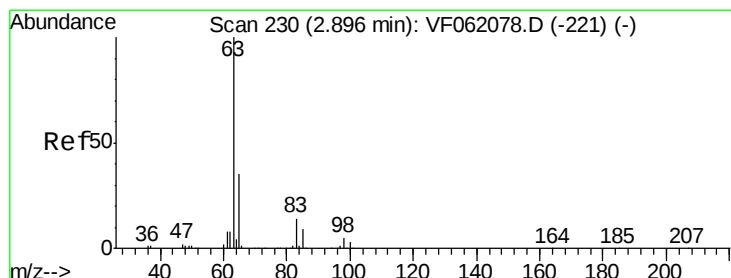
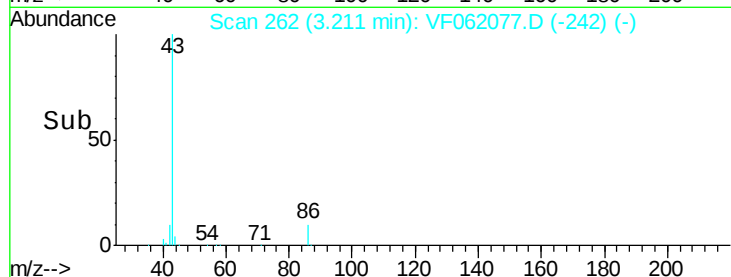
50000

0

3.21

3.10 3.20 3.30 3.40

Time-->



#24

1,1-Dichloroethane

Concen: 19.833 ug/l

RT: 2.90 min Scan# 230

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

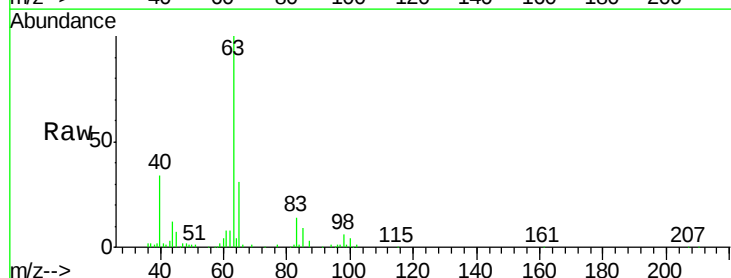
Tgt Ion: 63 Resp: 97588

Ion Ratio Lower Upper

63 100

98 6.0 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

50000

40000

30000

20000

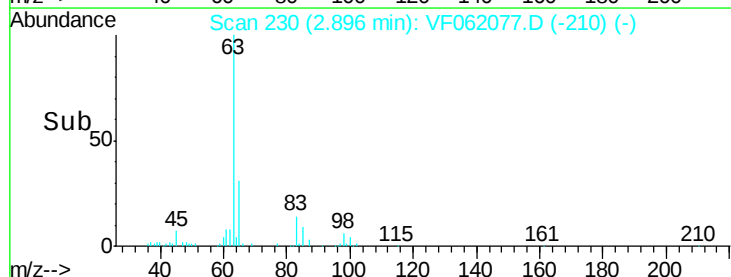
10000

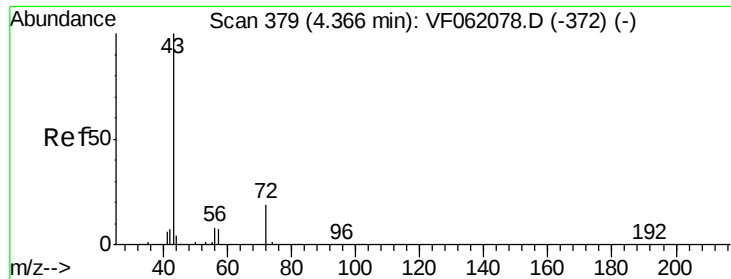
0

2.90

2.80 2.90 3.00

Time-->





#25

2-Butanone

Concen: 98.841 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tot Ion: 43 Resp: 98232

Ion Ratio Lower Upper

43 100

72 23.2 16.7 25.1

Instrument :

MSVOA_F

ClientSampleId :

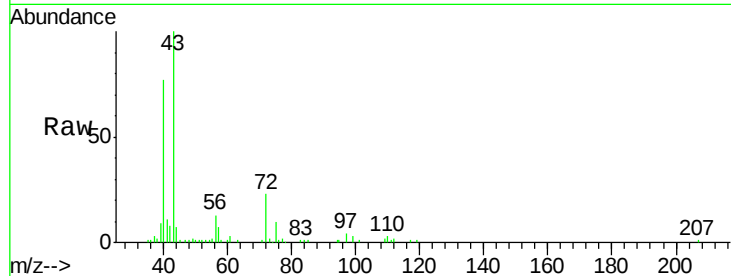
VSTDIC020

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

25000

20000

15000

10000

5000

0

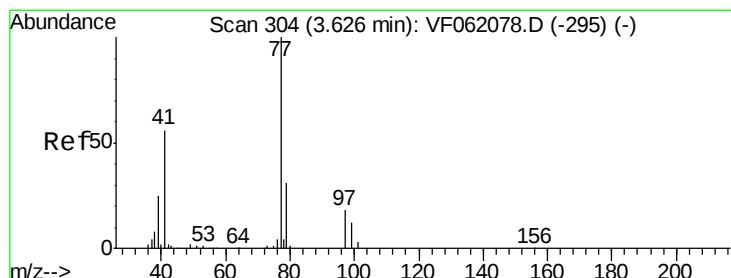
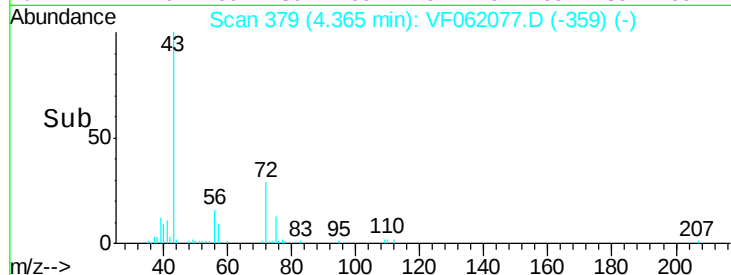
4.20

4.30

4.40

4.50

Time-->



#26

2,2-Dichloropropane

Concen: 20.164 ug/l

RT: 3.63 min Scan# 304

Delta R.T. -0.00 min

Lab File: VF062077.D

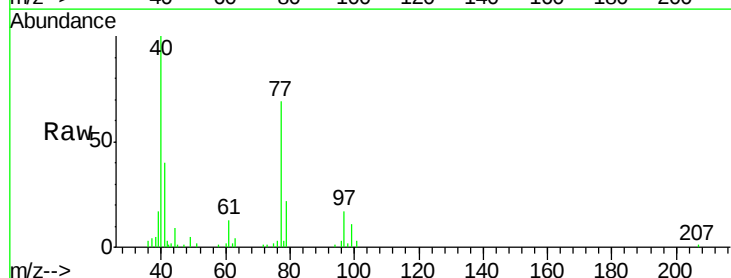
Acq: 22 Mar 2019 11:56

Tgt Ion: 77 Resp: 40229

Ion Ratio Lower Upper

77 100

97 24.0 10.3 30.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

12000

10000

8000

6000

4000

2000

0

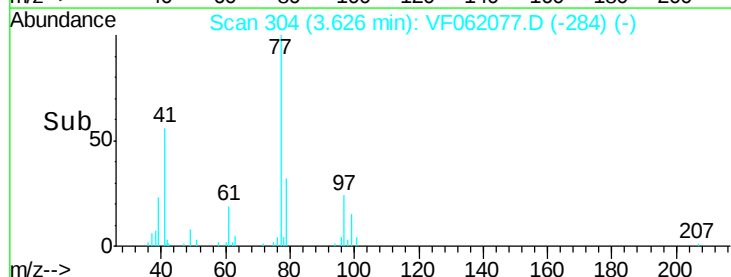
3.50

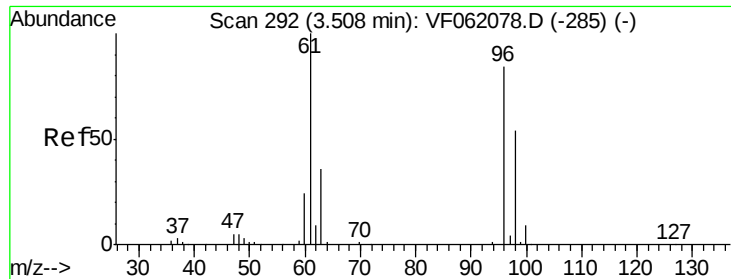
3.60

3.70

3.80

Time-->





#27

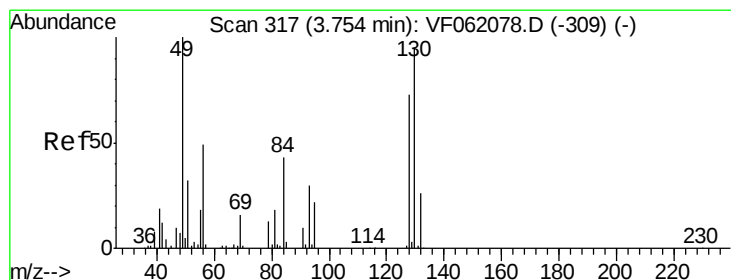
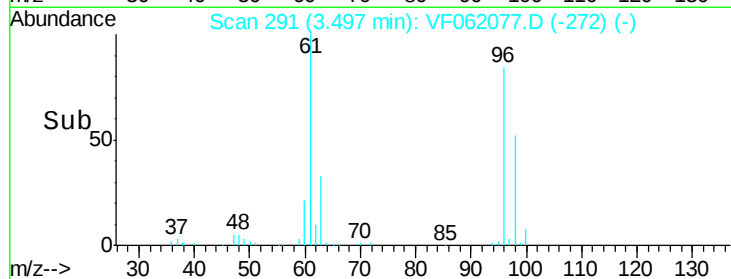
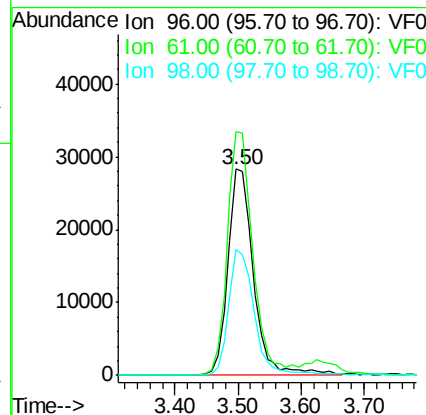
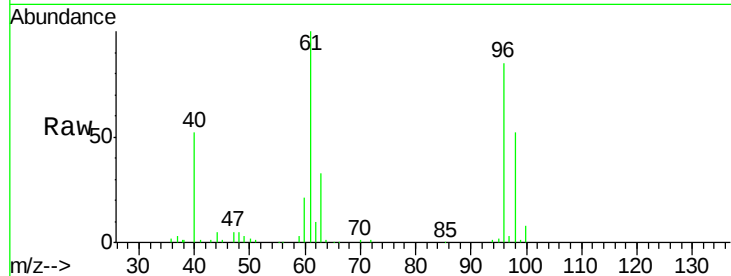
cis-1,2-Dichloroethene
 Concen: 21.285 ug/l
 RT: 3.50 min Scan# 291
 Delta R.T. -0.01 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
96	100				
61	118.3		0.0	239.0	
98	61.1		0.0	128.2	

Manual Integrations
 APPROVED

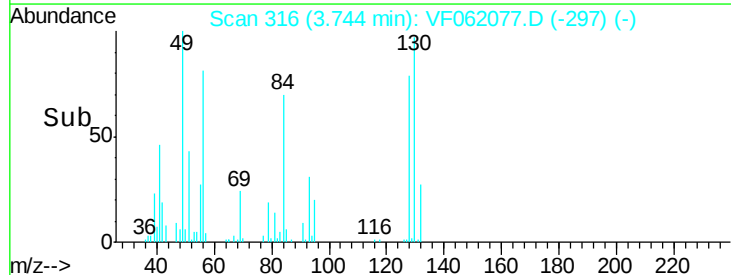
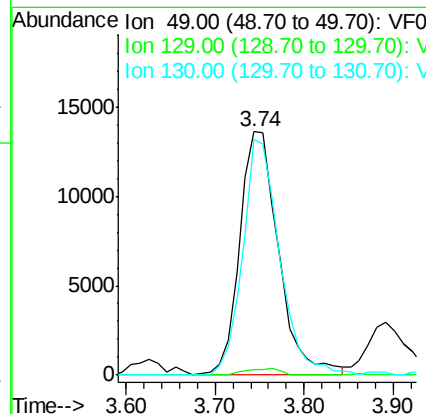
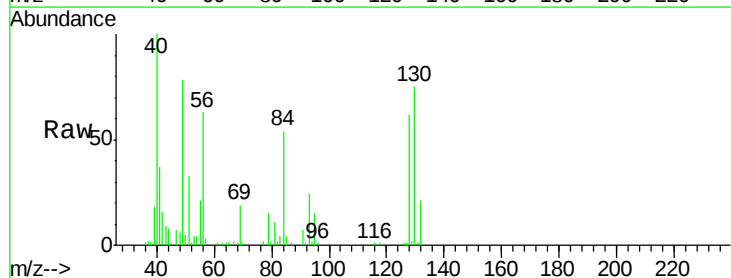
MMDadoda
 3/27/2019 11:57:10 AM

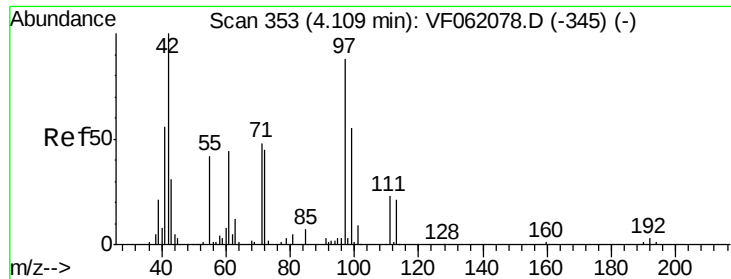


#28

Bromochloromethane
 Concen: 20.664 ug/l
 RT: 3.74 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
49	100				
129	2.3		0.0	5.6	
130	96.7		75.5	113.3	





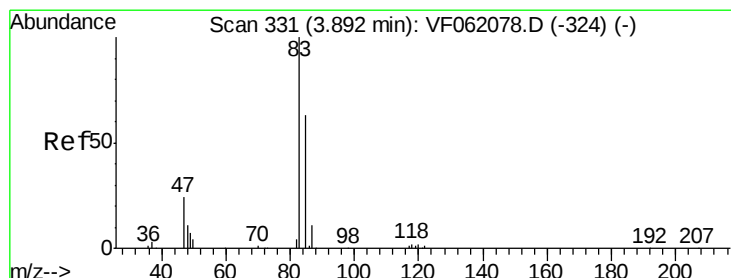
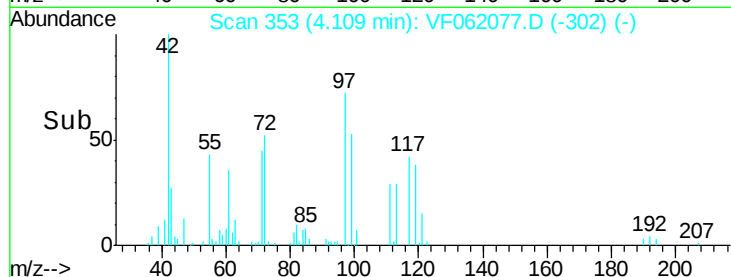
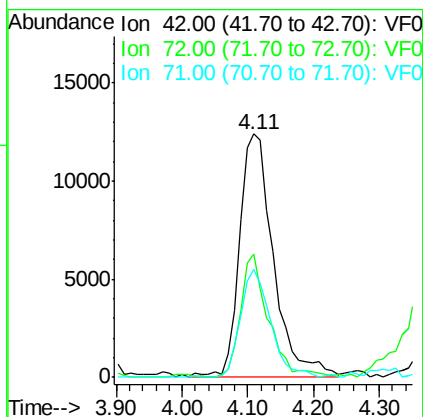
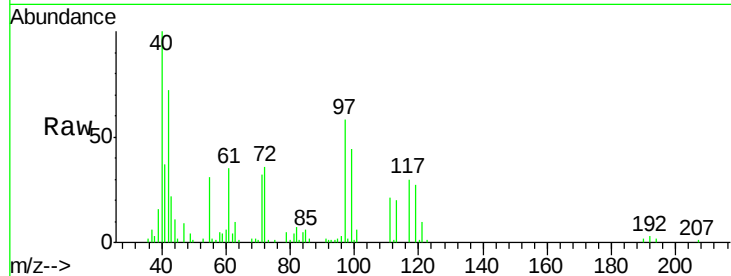
#29
Tetrahydrofuran
Concen: 104.155 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.3	49.9
71	39.3	35.0	52.4

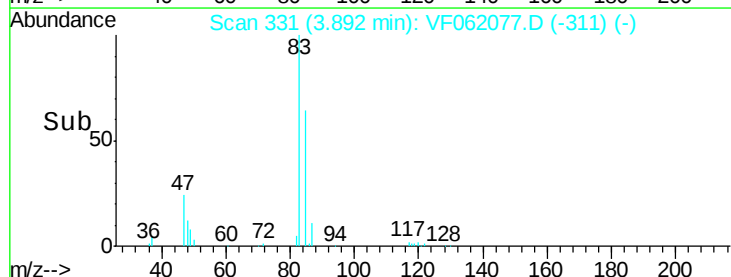
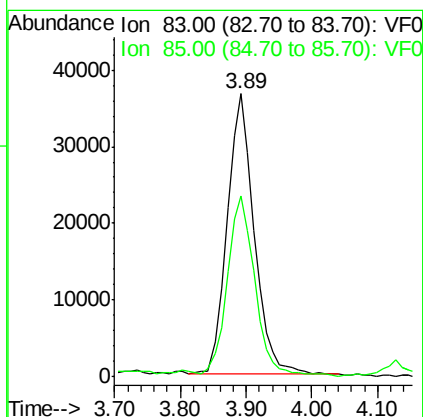
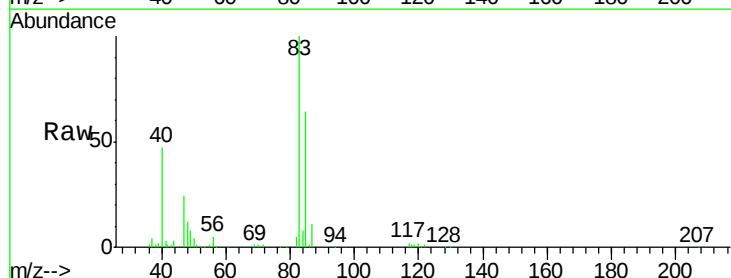
Manual Integrations
APPROVED

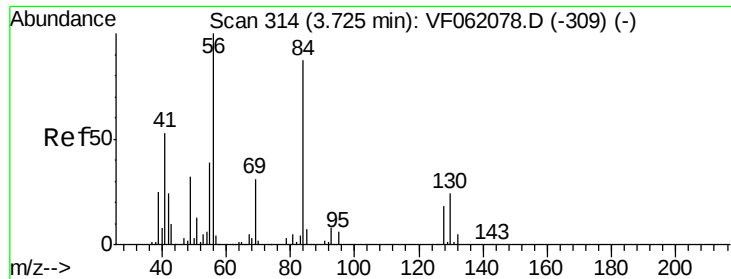
MMDadoda
3/27/2019 11:57:10 AM



#30
Chloroform
Concen: 20.158 ug/l
RT: 3.89 min Scan# 331
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.5	77.3





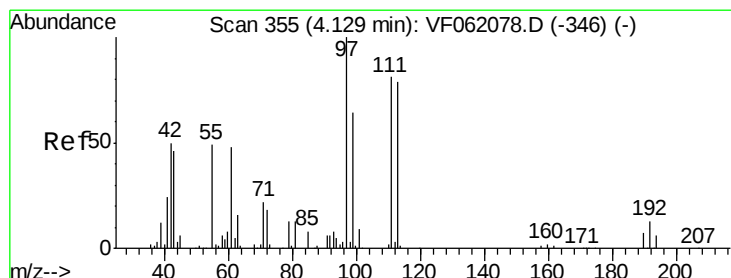
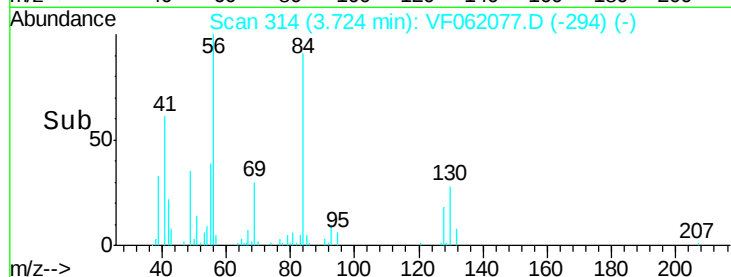
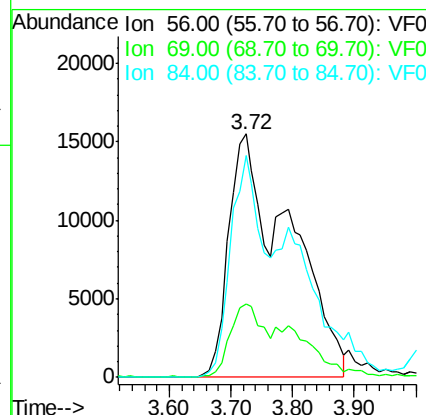
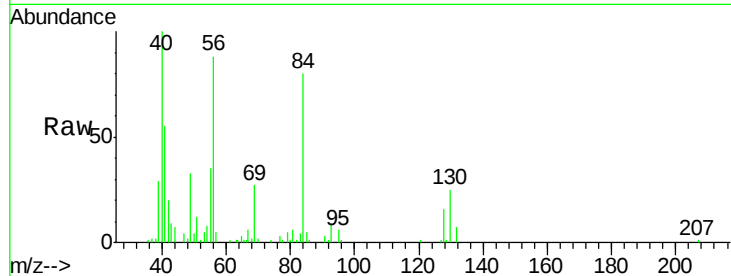
#31
Cyclohexane
Concen: 21.832 ug/l m
RT: 3.72 min Scan# 314
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
69	30.3	25.9	38.9	
84	91.1	71.1	106.7	

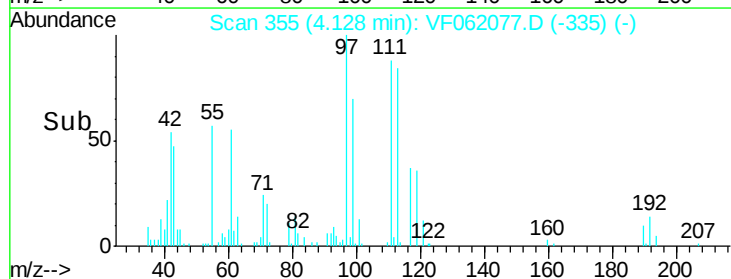
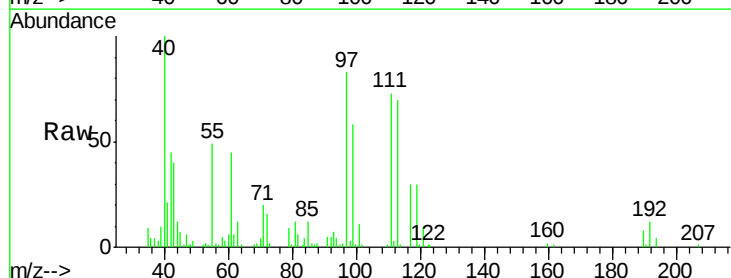
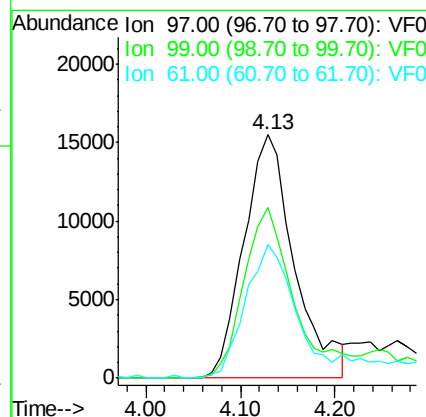
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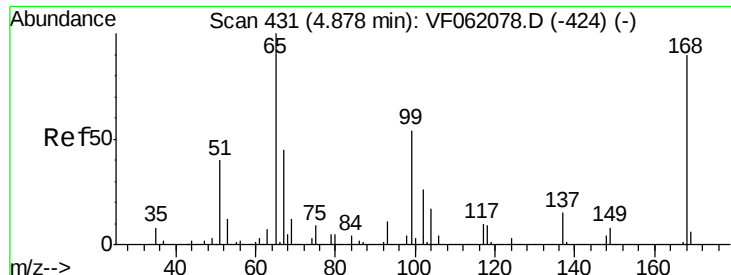
MMDadoda
3/27/2019 11:57:10 AM



#32
1,1,1-Trichloroethane
Concen: 18.191 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	70.3	51.3	76.9	
61	54.7	39.0	58.6	





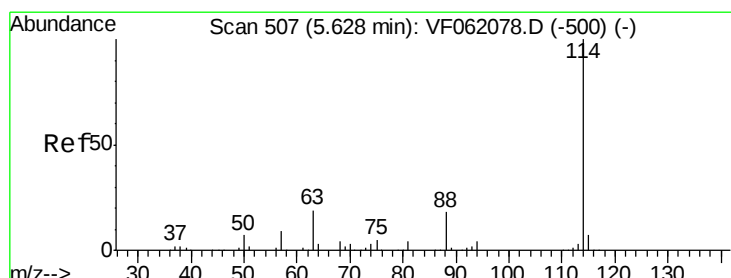
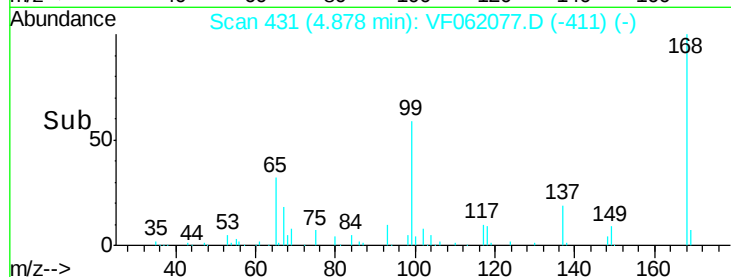
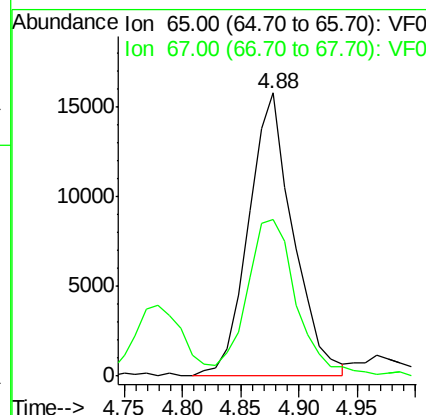
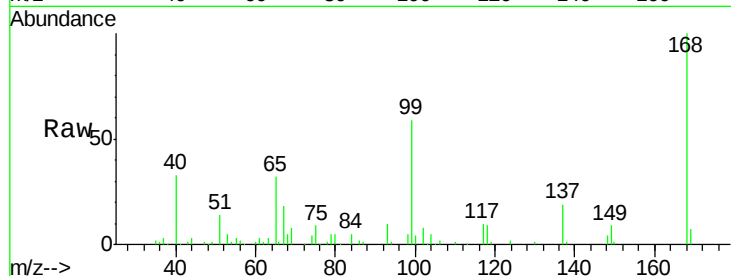
#33
 1,2-Dichloroethane-d4
 Concen: 18.573 ug/l
 RT: 4.88 min Scan# 431
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	106.2

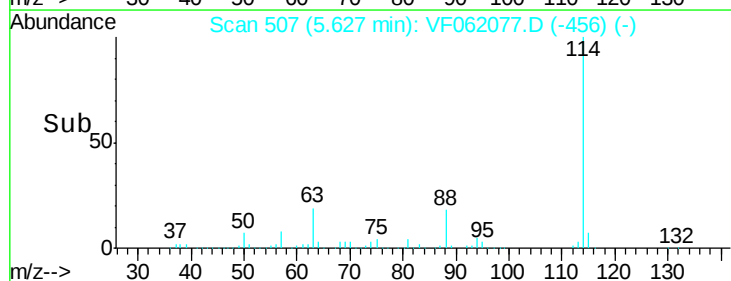
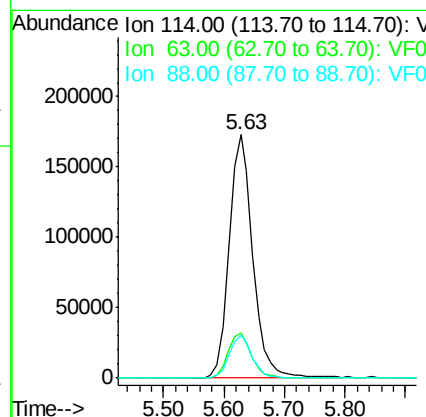
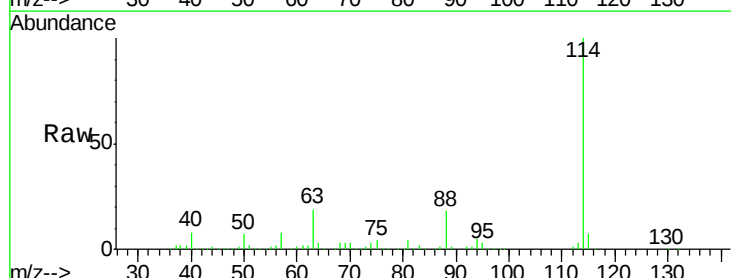
Manual Integrations
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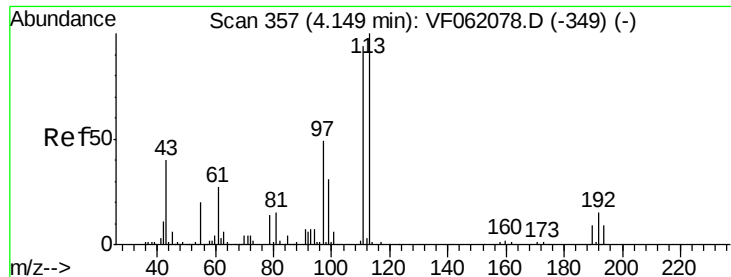
MMDadoda
 3/27/2019 11:57:10 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.63 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	37.8
88	17.8	0.0	36.4





#35

Dibromofluoromethane

Concen: 19.287 ug/l

RT: 4.15 min Scan# 357

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

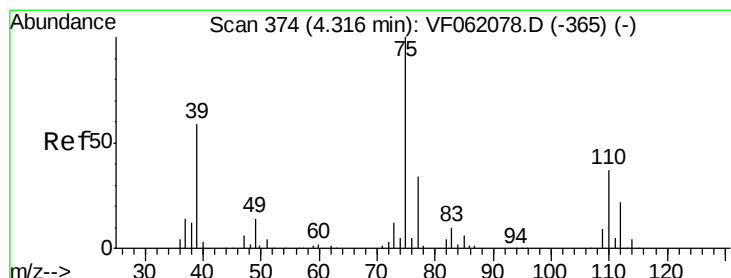
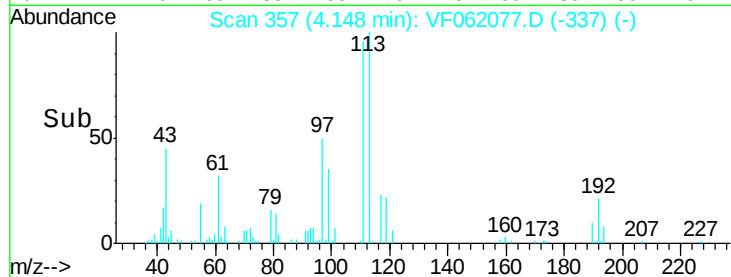
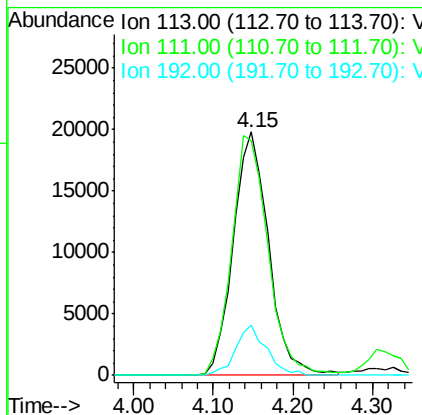
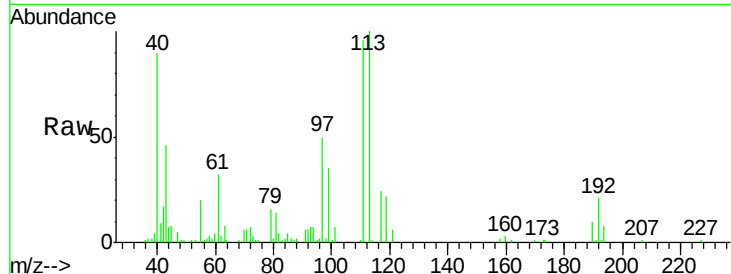
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	96.3	75.4	113.0
192	21.3	12.3	18.5#

Manual Integrations
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MMDadoda
3/27/2019 11:57:10 AM



#36

1,1-Dichloropropene

Concen: 20.094 ug/l

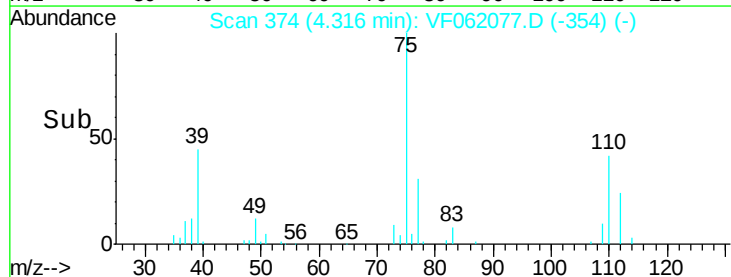
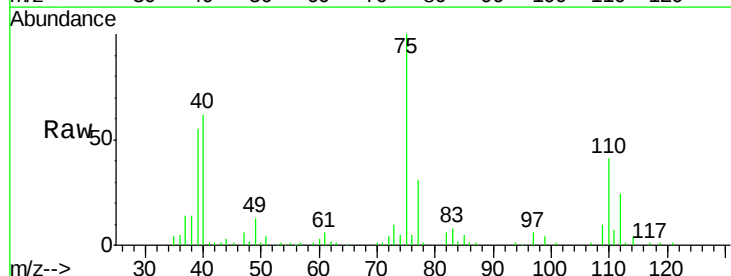
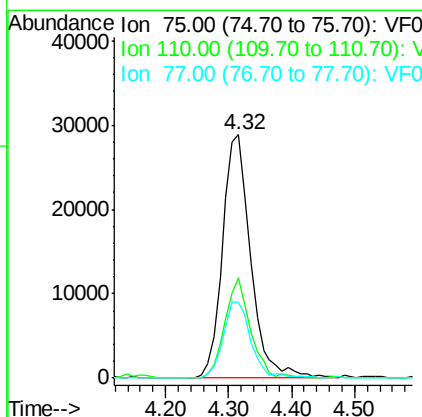
RT: 4.32 min Scan# 374

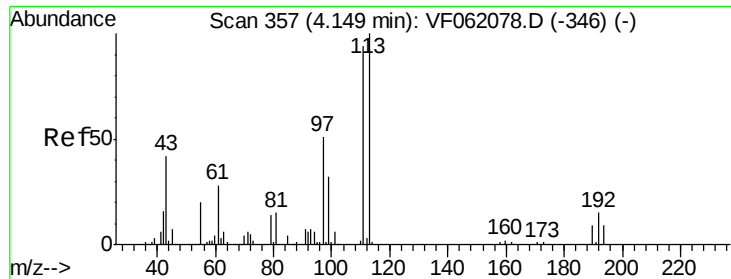
Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	41.3	18.5	55.5
77	31.2	27.4	41.0





#37

Ethyl Acetate

Concen: 18.810 ug/l

RT: 4.15 min Scan# 357

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

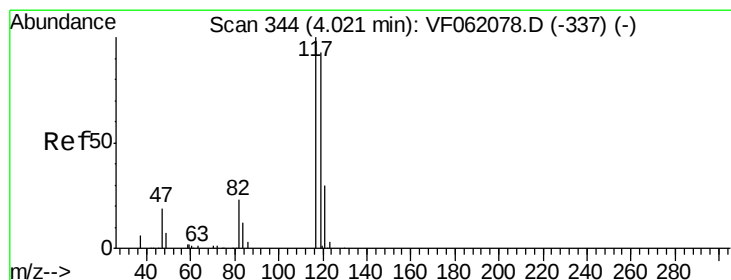
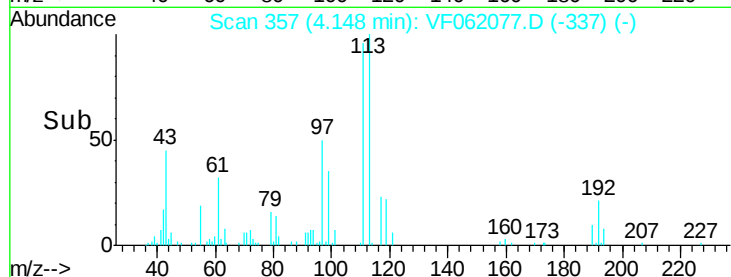
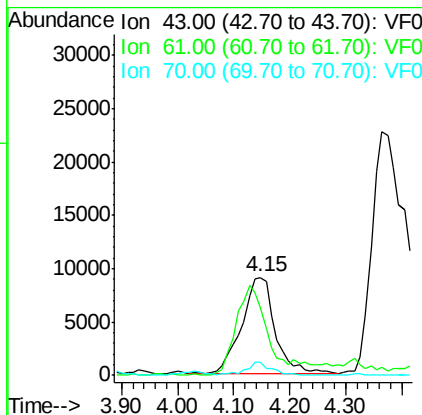
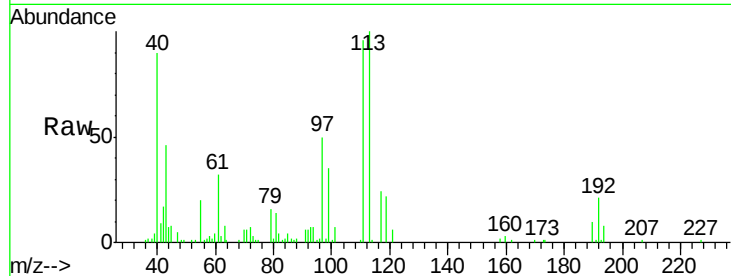
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	36656
Ion	Ratio	Lower	Upper
43	100		
61	69.2	53.6	80.4
70	13.2	9.0	13.6

Manual Integrations
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3/27/2019 11:57:10 AM



#38

Carbon Tetrachloride

Concen: 19.795 ug/l

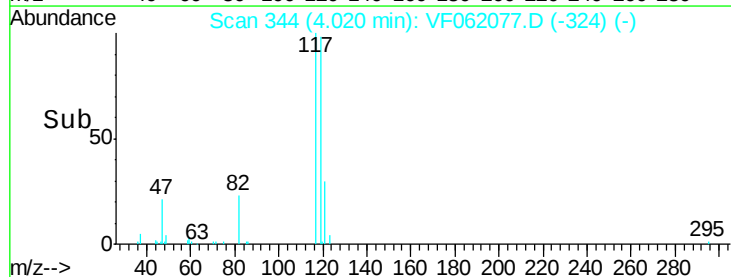
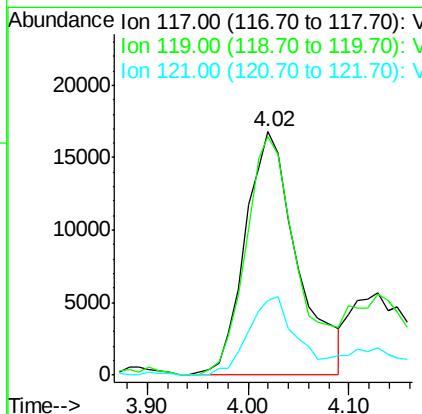
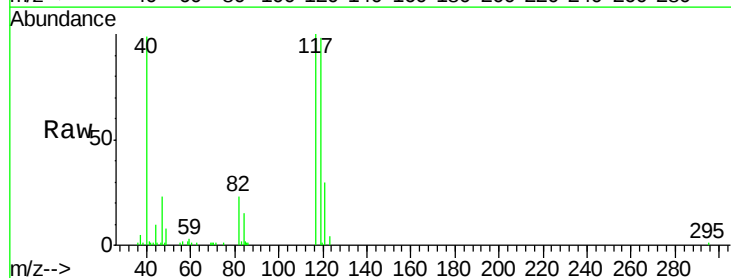
RT: 4.02 min Scan# 344

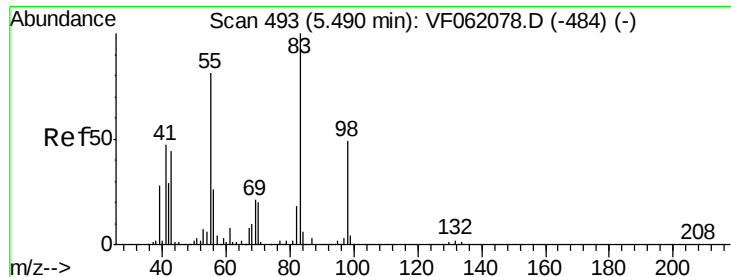
Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion:	117	Resp:	60163
Ion	Ratio	Lower	Upper
117	100		
119	97.8	74.7	112.1
121	30.5	23.6	35.4





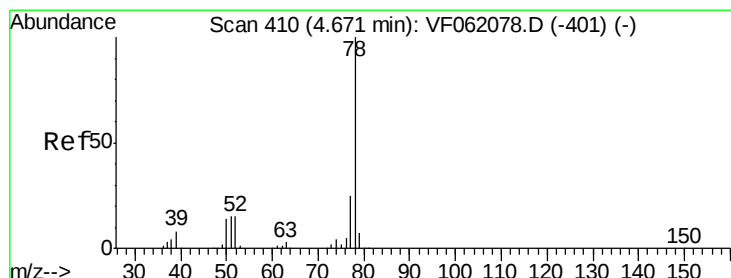
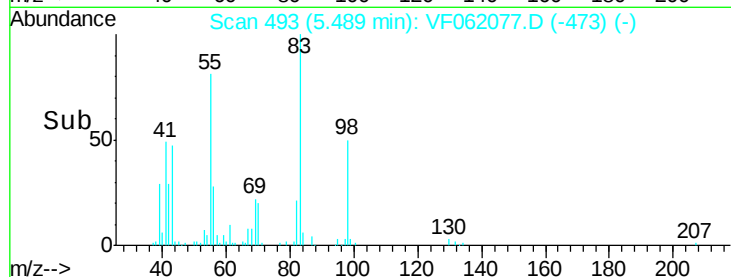
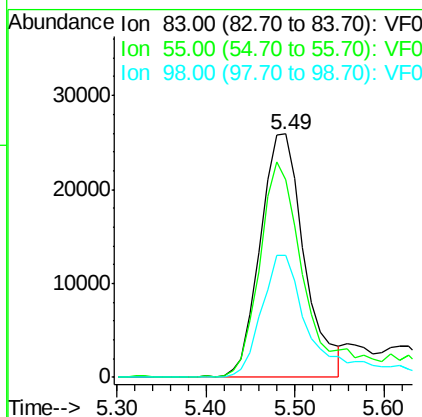
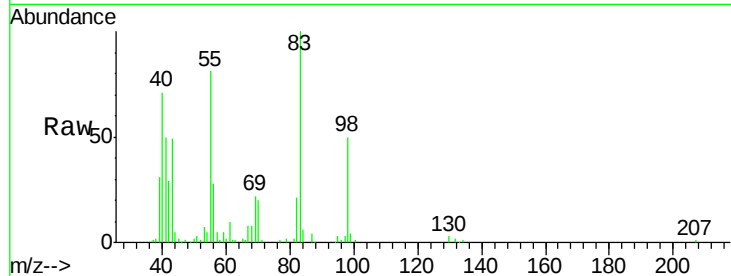
#39
Methvlcvclohexane
Concen: 17.200 ug/l
RT: 5.49 min Scan# 493
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	83.00	Resp:	89016
Ion	Ratio	Lower	Upper
83	100		
55	81.3	64.5	96.7
98	50.1	39.1	58.7

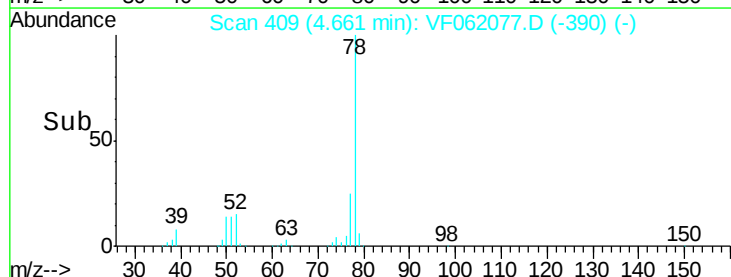
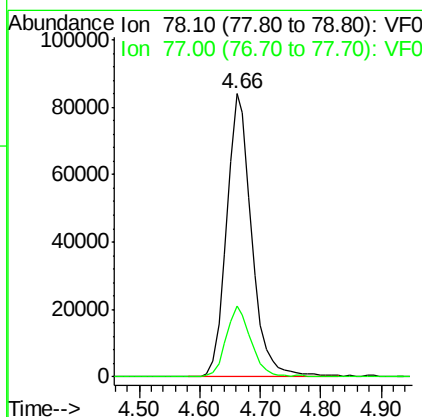
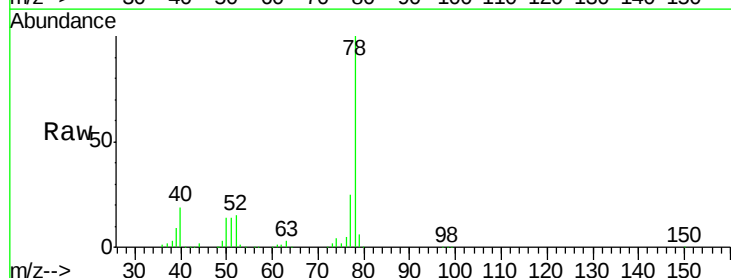
Manual Integrations
APPROVED

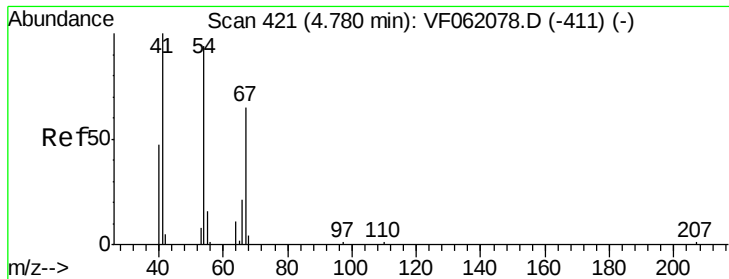
MMDadoda
3/27/2019 11:57:10 AM



#40
Benzene
Concen: 20.191 ug/l
RT: 4.66 min Scan# 409
Delta R.T. -0.01 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	78	Resp:	241372
Ion	Ratio	Lower	Upper
78	100		
77	25.0	19.8	29.6





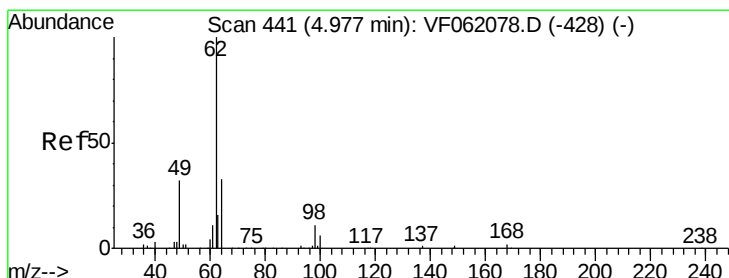
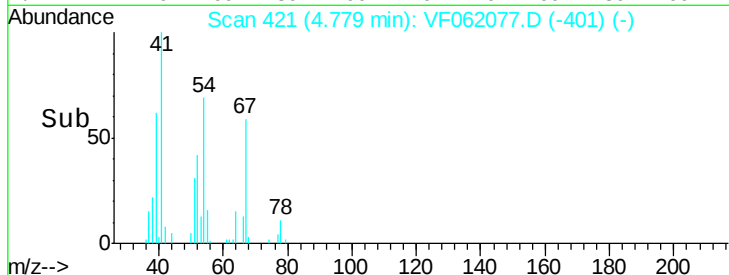
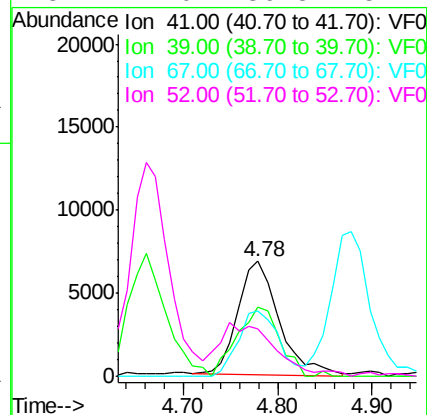
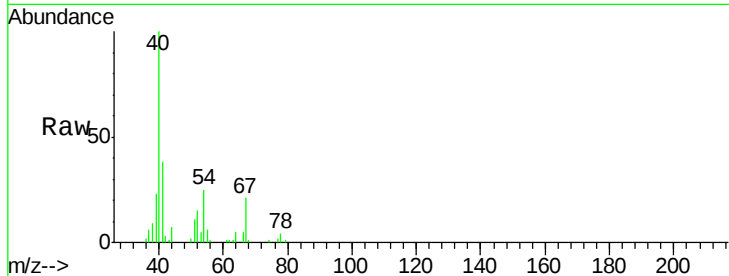
#41
Methacrylonitrile
Concen: 20.182 ug/l
RT: 4.78 min Scan# 421
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		20810		
39	60.3	43.5	65.3		
67	56.7	51.6	77.4		
52	41.0	36.5	54.7		

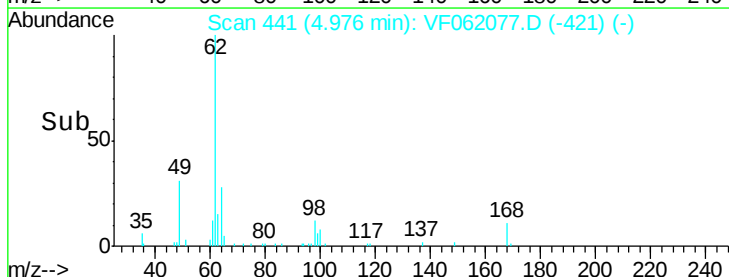
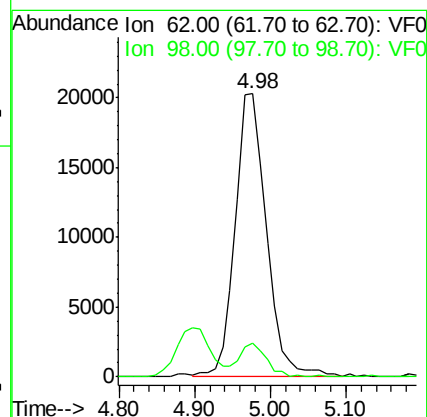
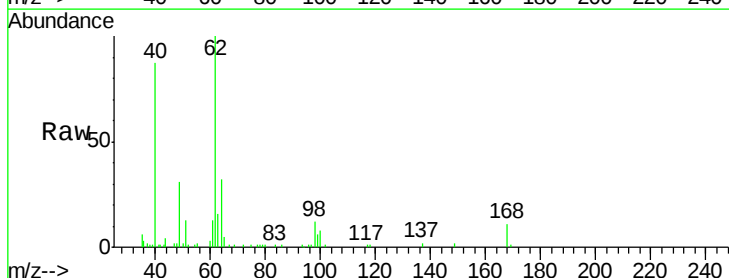
Manual Integrations
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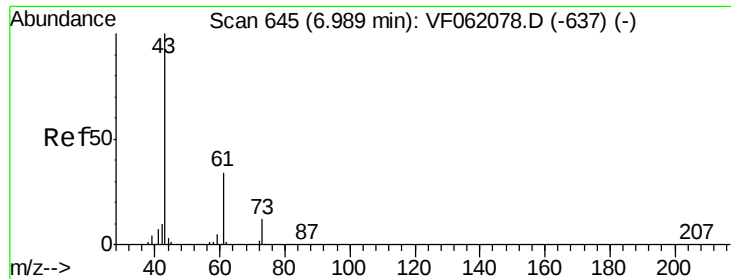
MMDadoda
3/27/2019 11:57:10 AM



#42
1,2-Dichloroethane
Concen: 20.525 ug/l
RT: 4.98 min Scan# 441
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		58021		
98	12.1	0.0	23.2		





#43

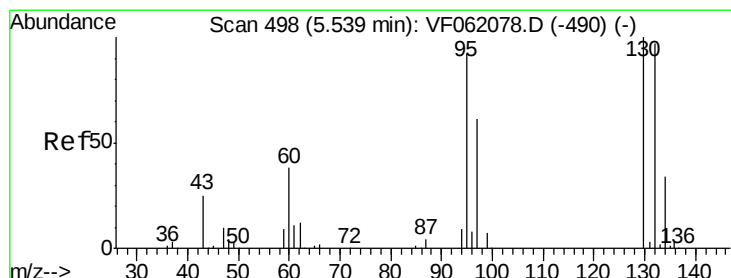
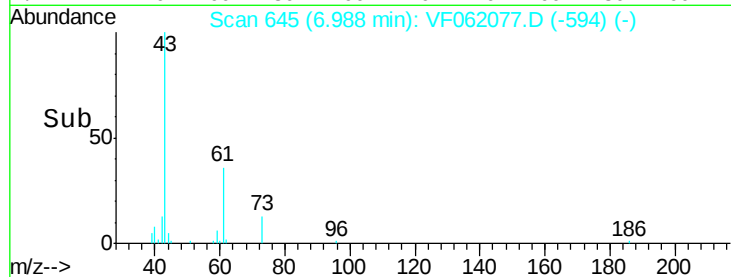
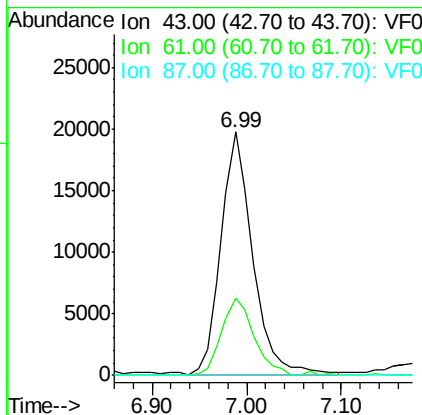
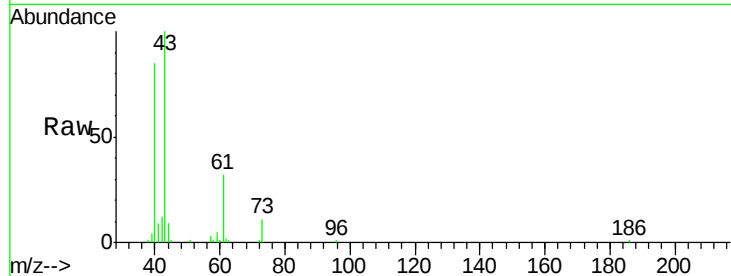
Isopropyl Acetate
 Concen: 19.612 ug/l
 RT: 6.99 min Scan# 645
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	31.6	27.0	40.4
87	0.0	0.4	0.6

Manual Integrations
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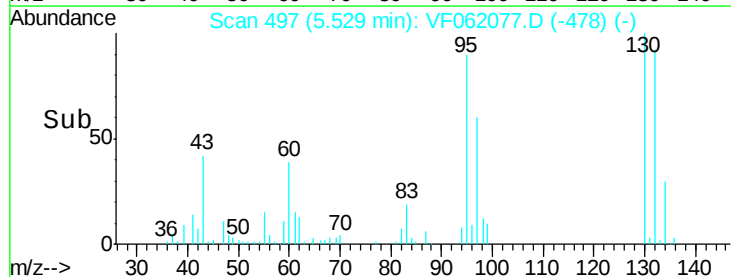
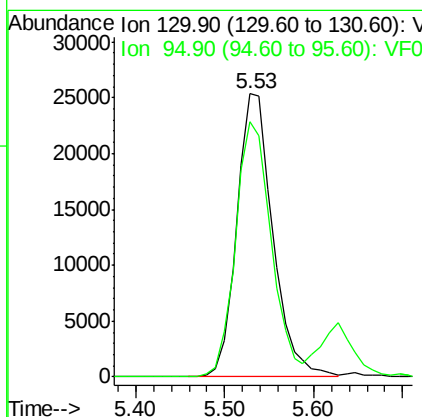
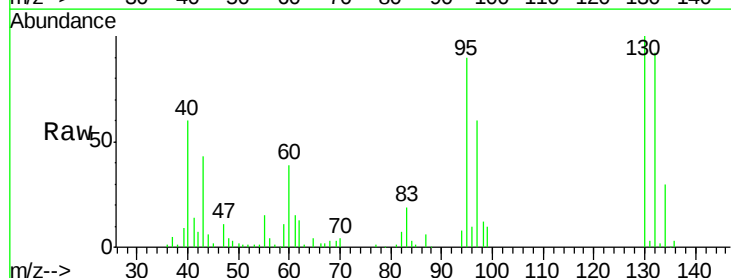
MMDadoda
 3/27/2019 11:57:10 AM

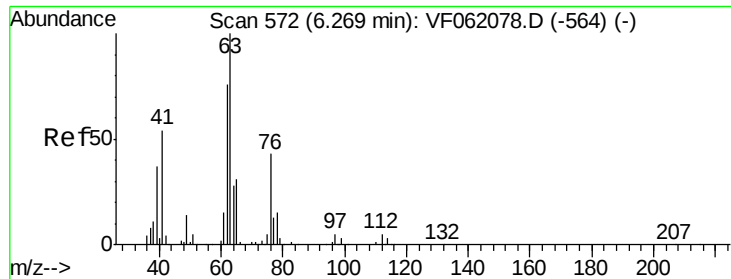


#44

Trichloroethene
 Concen: 19.463 ug/l
 RT: 5.53 min Scan# 497
 Delta R.T. -0.01 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
130	100		
95	90.0	0.0	183.4





#45

1,2-Dichloropropane

Concen: 20.724 ug/l

RT: 6.26 min Scan# 571

Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 63 Resp: 59087

Ion Ratio Lower Upper

63 100

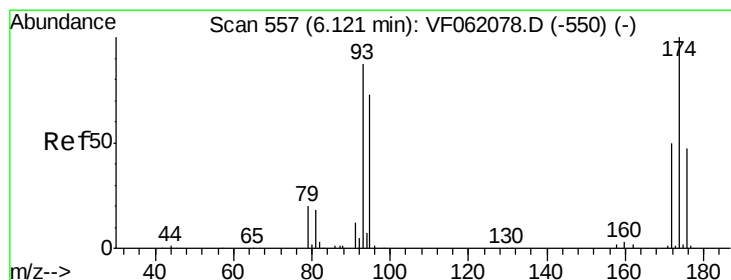
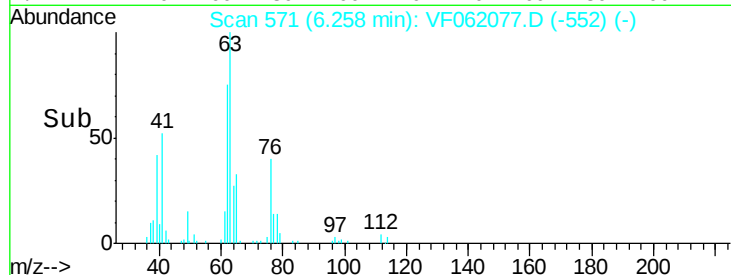
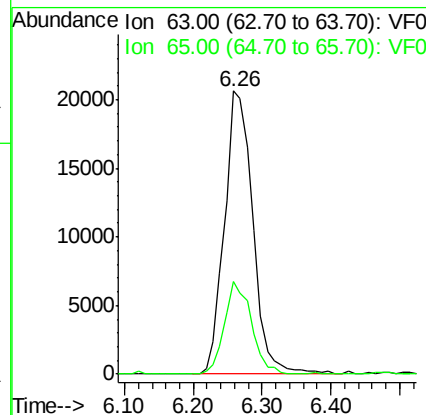
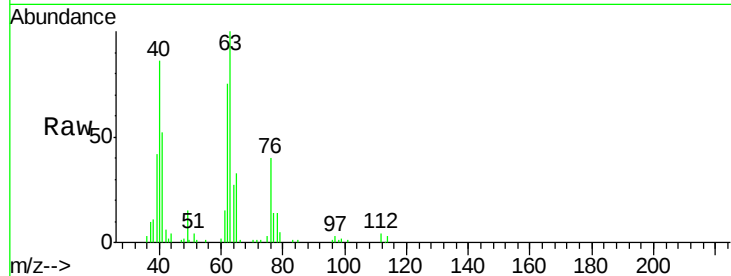
65 32.6 24.9 37.3

Manual Integrations

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MMDadoda

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#46

Dibromomethane

Concen: 19.550 ug/l

RT: 6.11 min Scan# 556

Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

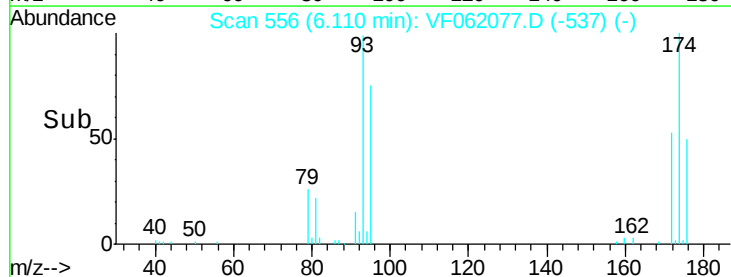
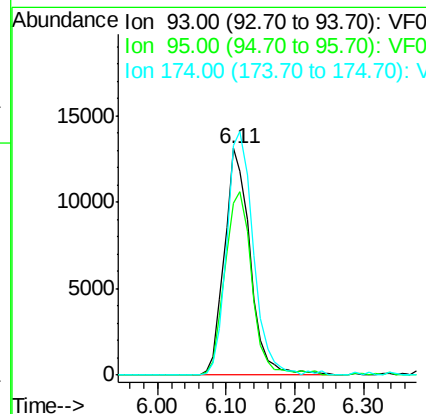
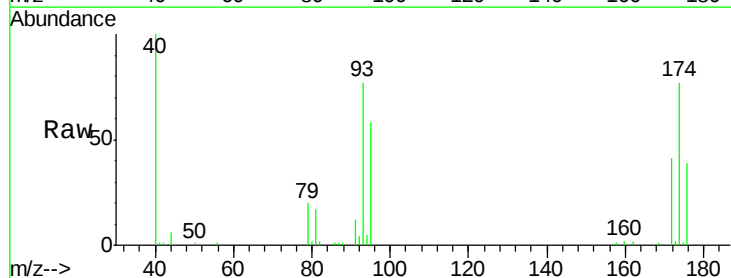
Tgt Ion: 93 Resp: 34081

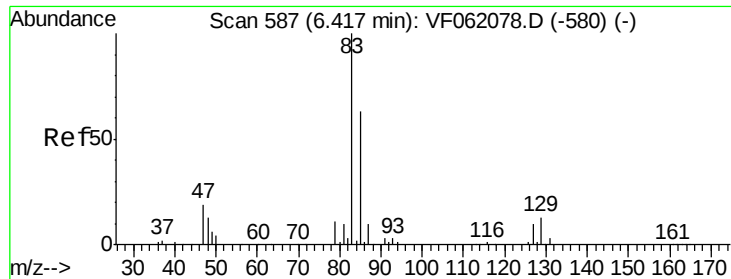
Ion Ratio Lower Upper

93 100

95 75.8 67.4 101.2

174 101.0 92.0 138.0





#47

Bromodichloromethane

Concen: 19.935 ug/l

RT: 6.42 min Scan# 587

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

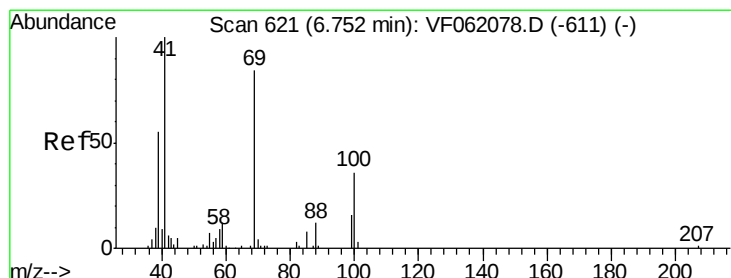
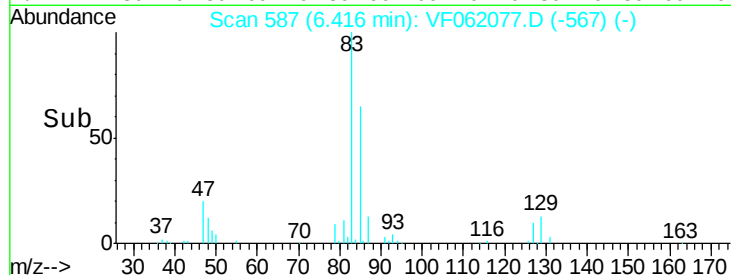
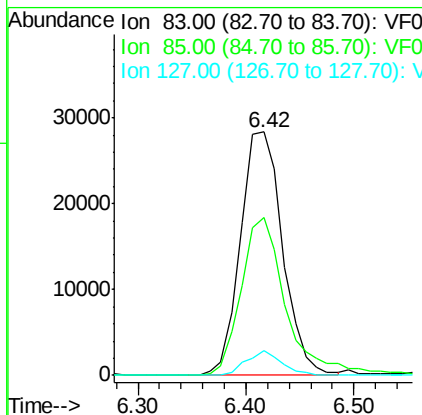
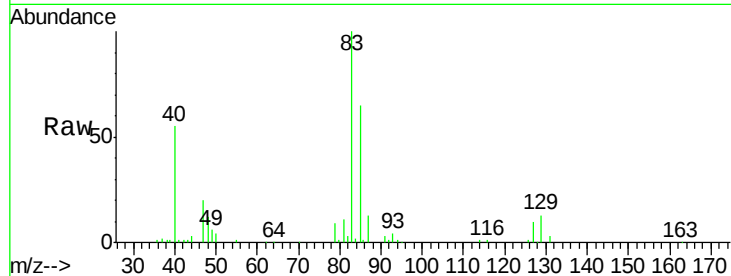
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	76978
Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.7	76.1
127	10.4	7.8	11.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 20.375 ug/l

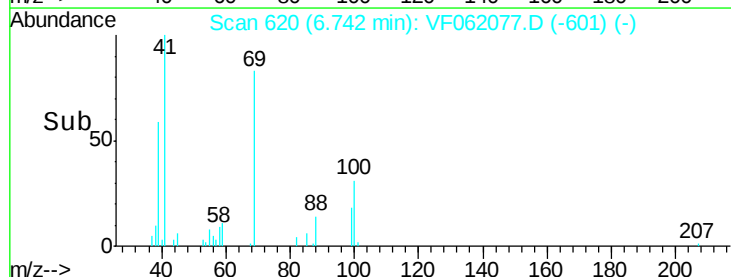
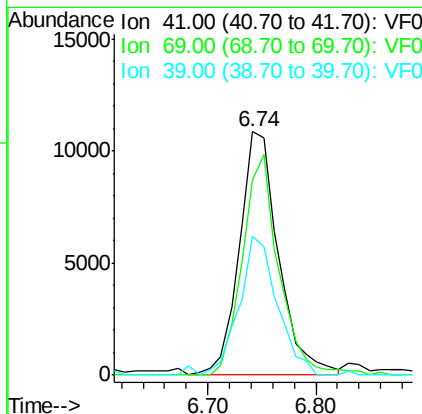
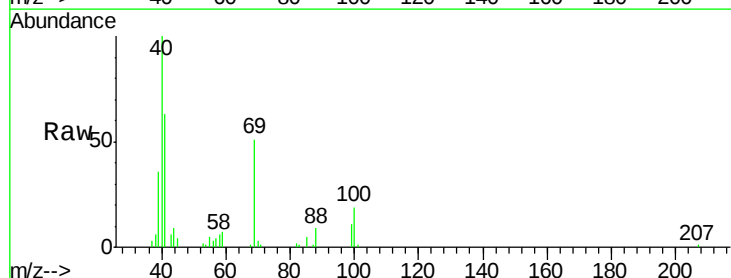
RT: 6.74 min Scan# 620

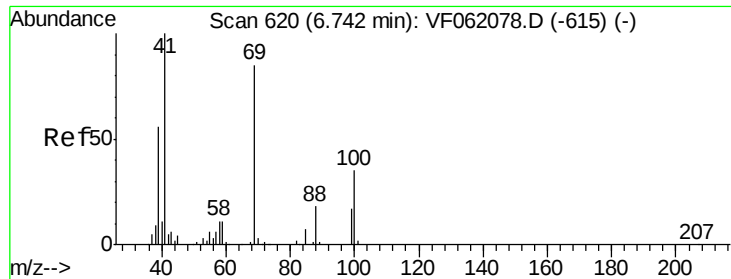
Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion:	41	Resp:	27379
Ion	Ratio	Lower	Upper
41	100		
69	80.3	66.6	100.0
39	57.0	43.6	65.4





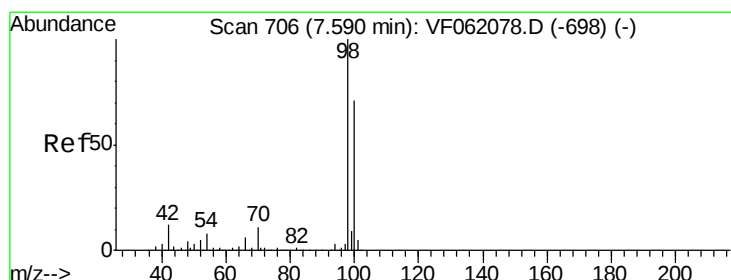
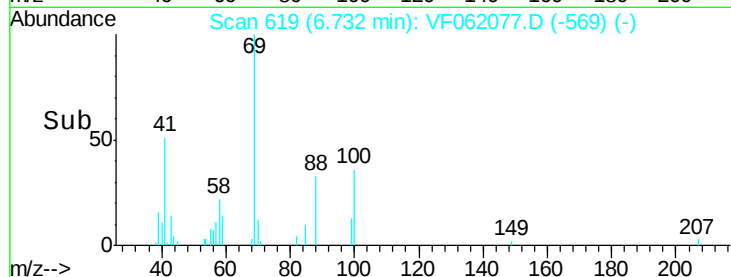
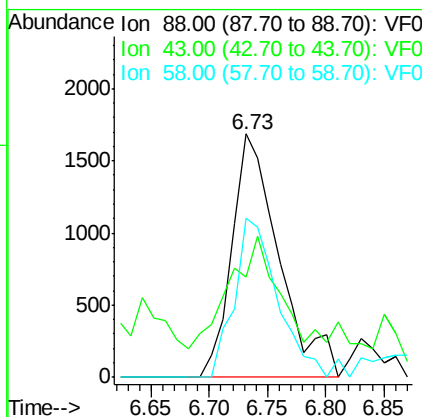
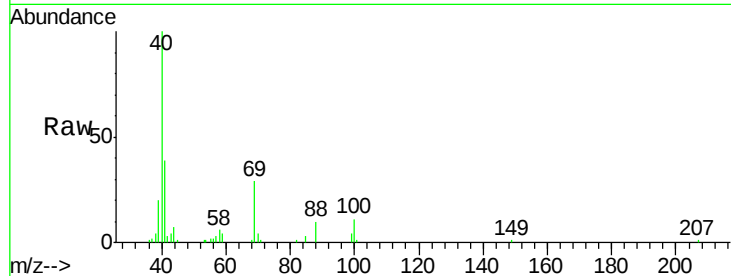
#49
1,4-Dioxane
Concen: 400.470 ug/l
RT: 6.73 min Scan# 619
Delta R.T. -0.01 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
88	100	4722		
43	41.2		35.0	52.4
58	65.3		49.9	74.9

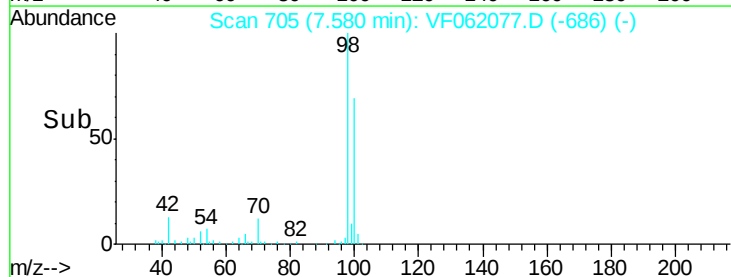
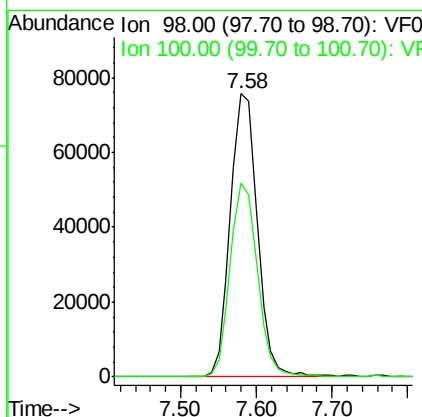
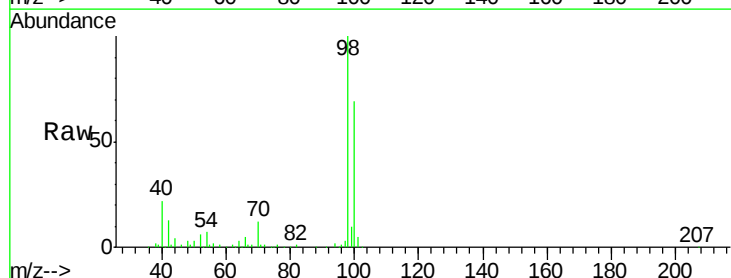
Manual Integrations
APPROVED

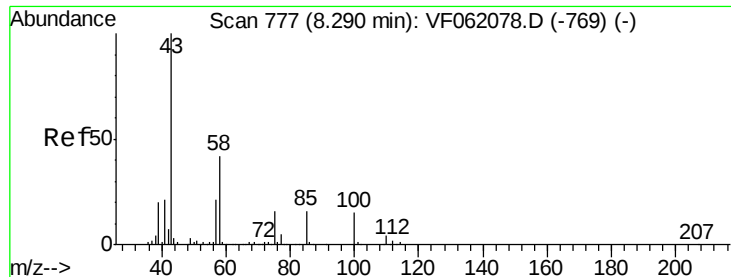
MMDadoda
3/27/2019 11:57:10 AM



#50
Toluene-d8
Concen: 19.845 ug/l
RT: 7.58 min Scan# 705
Delta R.T. -0.01 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	187602		
100	68.6		57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 103.509 ug/l

RT: 8.29 min Scan# 777

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 163506

Ion Ratio Lower Upper

43 100

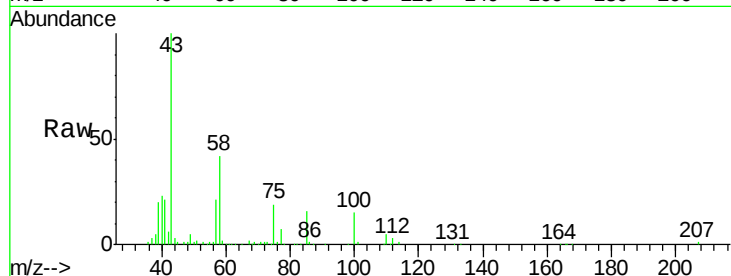
58 41.5 33.8 50.8

Manual Integrations

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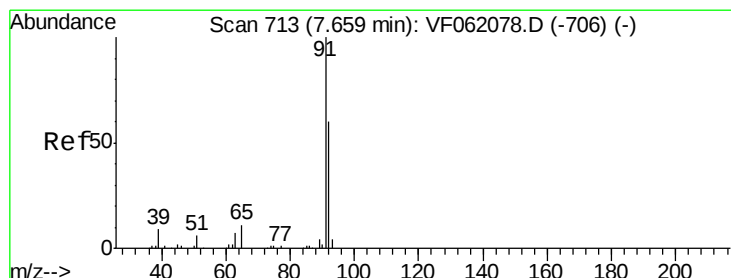
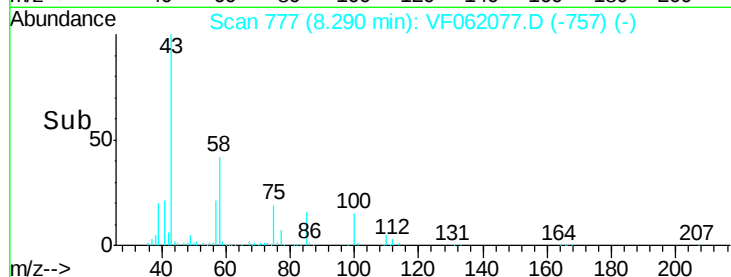
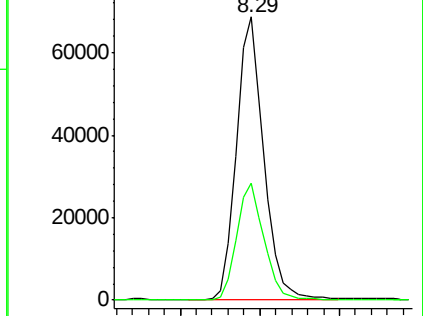
MMDadoda

3/27/2019 11:57:10 AM



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 20.057 ug/l

RT: 7.65 min Scan# 712

Delta R.T. -0.01 min

Lab File: VF062077.D

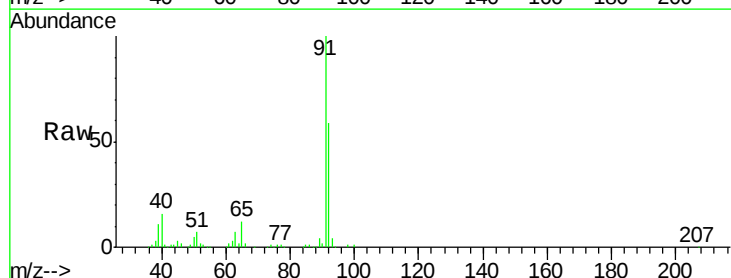
Acq: 22 Mar 2019 11:56

Tgt Ion: 92 Resp: 138875

Ion Ratio Lower Upper

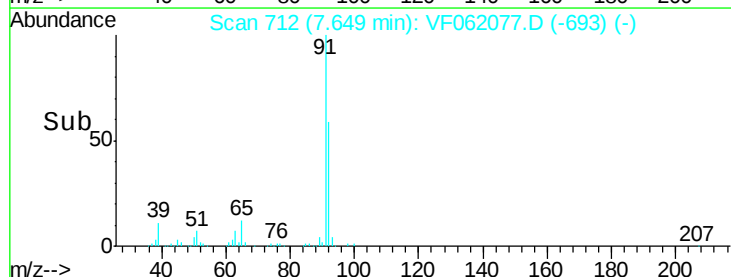
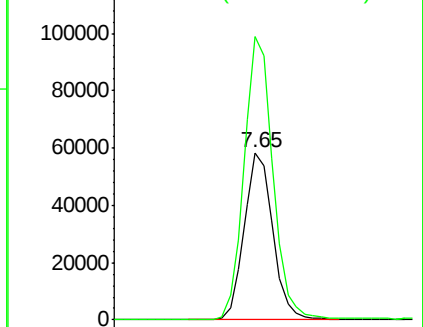
92 100

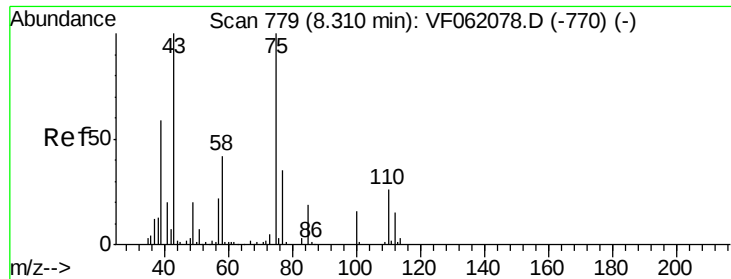
91 169.4 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





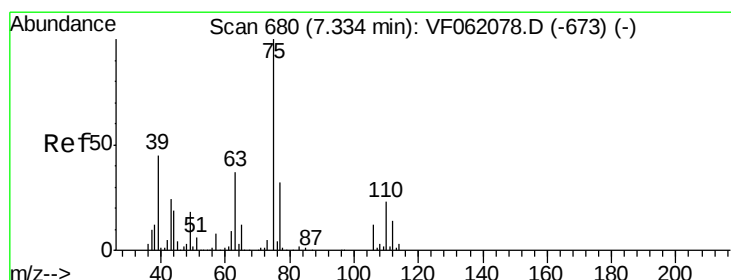
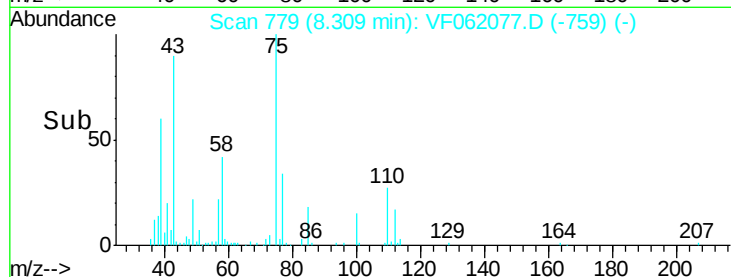
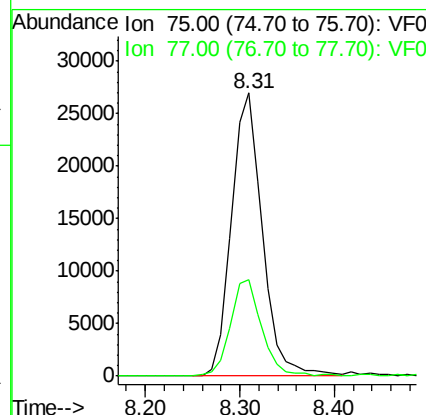
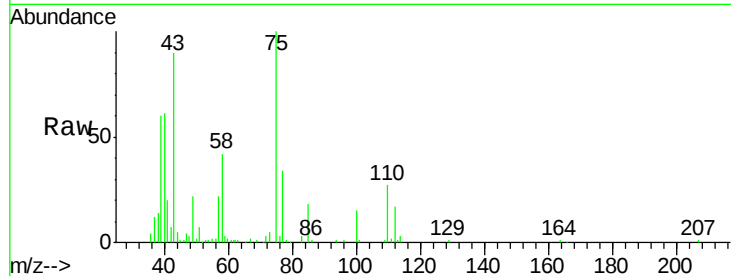
#53
 t-1,3-Dichloropropene
 Concen: 20.139 ug/l
 RT: 8.31 min Scan# 779
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion: 75 Resp: 61046
 Ion Ratio Lower Upper
 75 100
 77 34.0 28.0 42.0

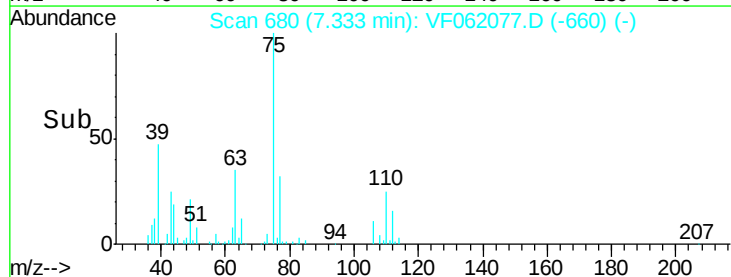
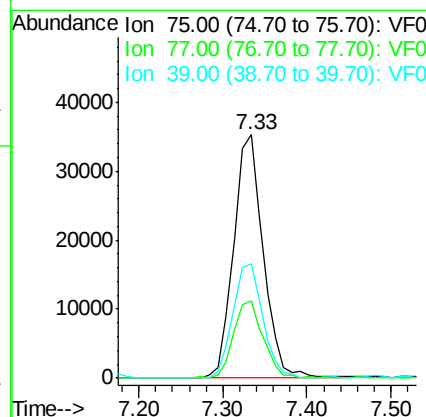
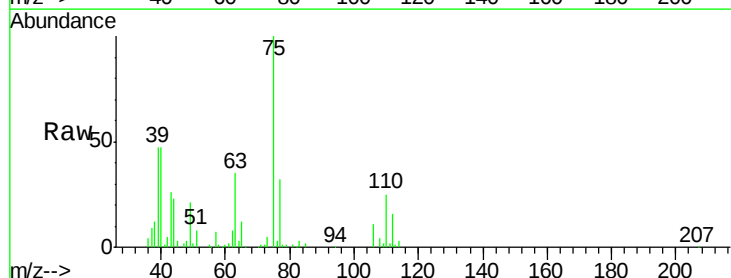
Manual Integrations
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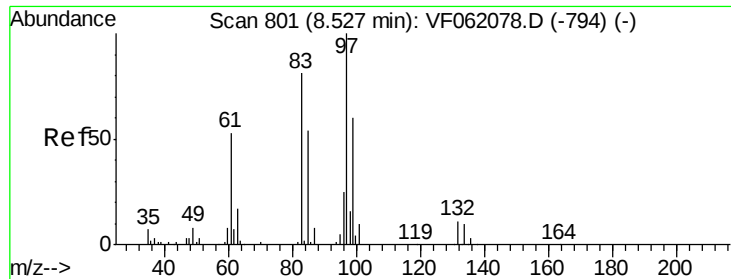
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 3/27/2019 11:57:10 AM



#54
 cis-1,3-Dichloropropene
 Concen: 19.981 ug/l
 RT: 7.33 min Scan# 680
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Tgt Ion: 75 Resp: 86665
 Ion Ratio Lower Upper
 75 100
 77 31.5 25.8 38.6
 39 47.0 35.9 53.9





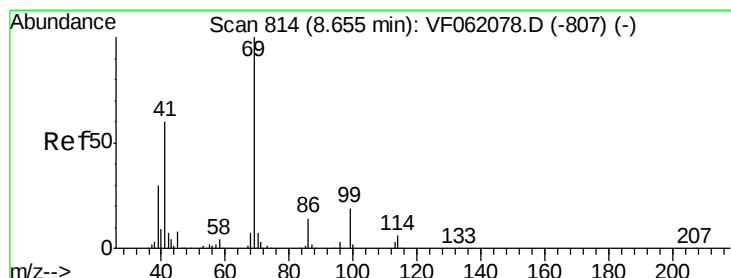
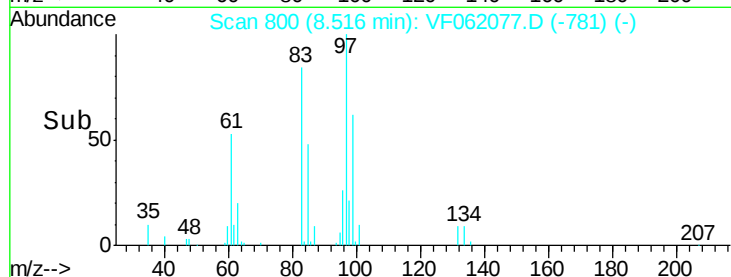
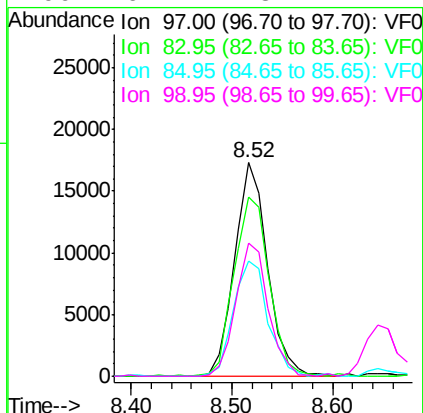
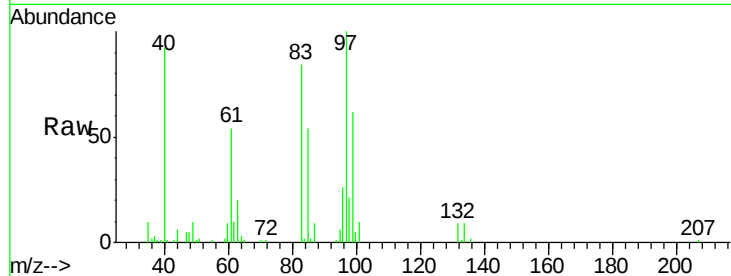
#55
1,1,2-Trichloroethane
Concen: 19.955 ug/l
RT: 8.52 min Scan# 800
Delta R.T. -0.01 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion:	97	Resp:	39245
Ion	Ratio	Lower	Upper
97	100		
83	84.0	64.6	97.0
85	54.0	43.6	65.4
99	62.1	48.2	72.2

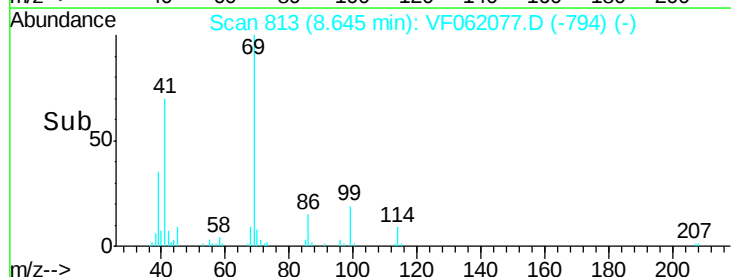
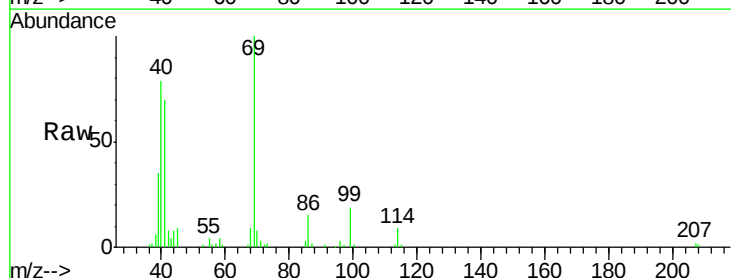
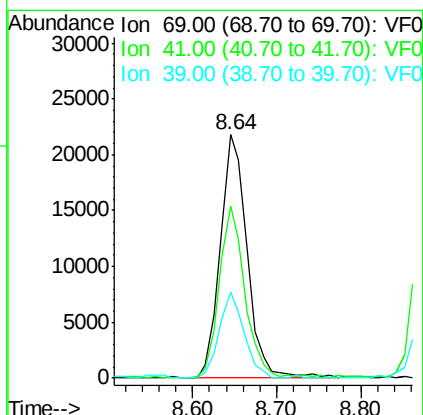
Manual Integrations
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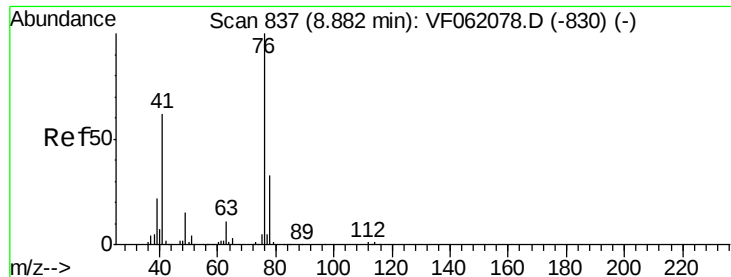
MMDadoda
3/27/2019 11:57:10 AM



#56
Ethyl methacrylate
Concen: 20.656 ug/l
RT: 8.64 min Scan# 813
Delta R.T. -0.01 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion:	69	Resp:	48450
Ion	Ratio	Lower	Upper
69	100		
41	70.4	48.2	72.2
39	35.2	24.0	36.0





#57

1,3-Dichloropropane

Concen: 20.418 ug/l

RT: 8.88 min Scan# 837

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 66647

Ion Ratio Lower Upper

76 100

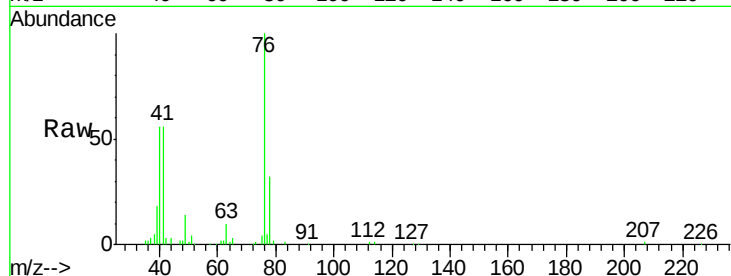
78 32.5 26.6 39.8

Manual Integrations

APPROVED

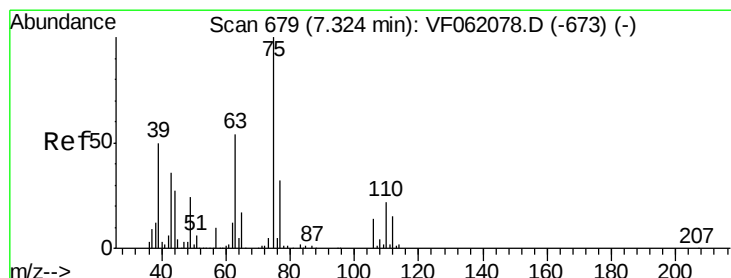
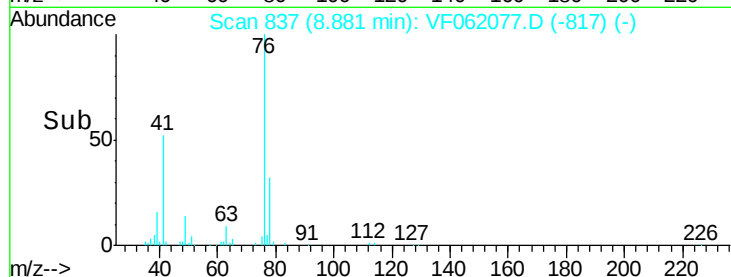
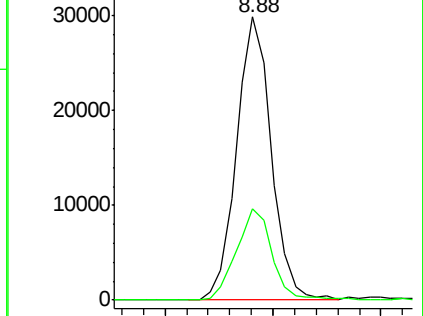
MMDadoda

3/27/2019 11:57:10 AM



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 99.239 ug/l

RT: 7.32 min Scan# 679

Delta R.T. -0.00 min

Lab File: VF062077.D

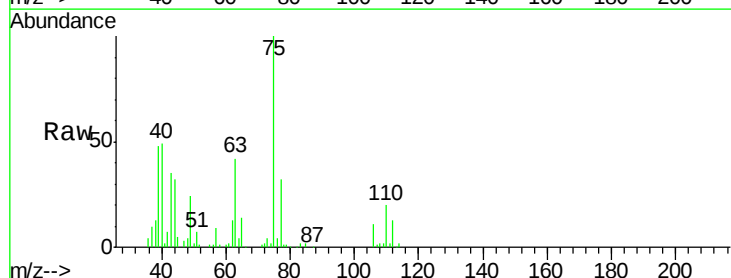
Acq: 22 Mar 2019 11:56

Tgt Ion: 63 Resp: 35321

Ion Ratio Lower Upper

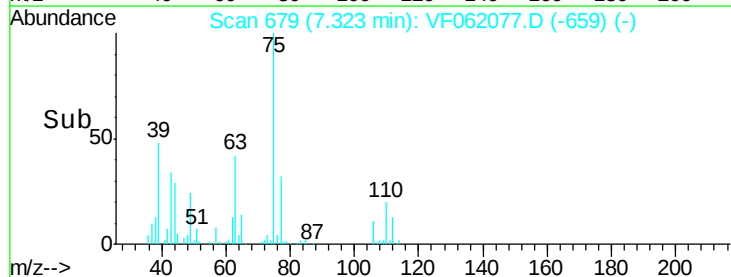
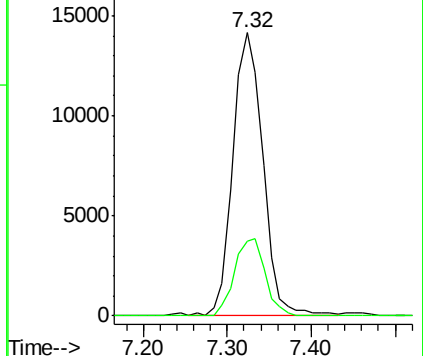
63 100

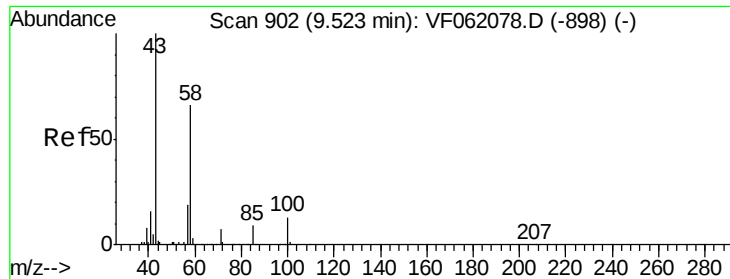
106 26.4 21.5 32.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





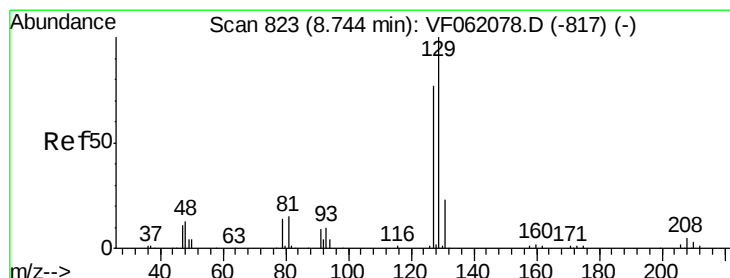
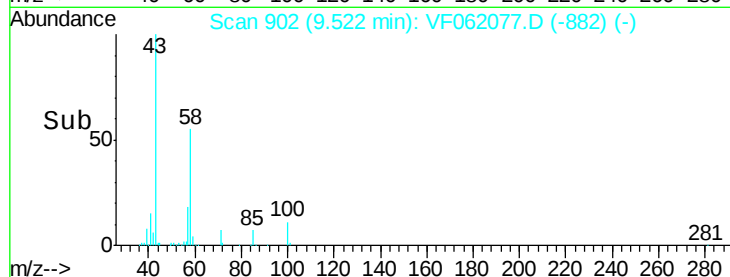
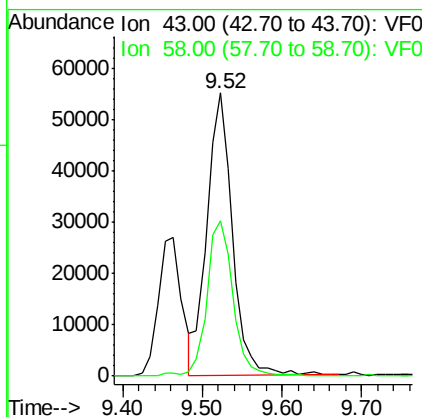
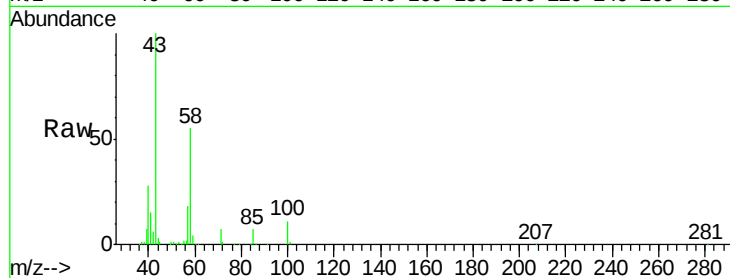
#59
2-Hexanone
Concen: 106.567 ug/l
RT: 9.52 min Scan# 902
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.7	28.8	86.4

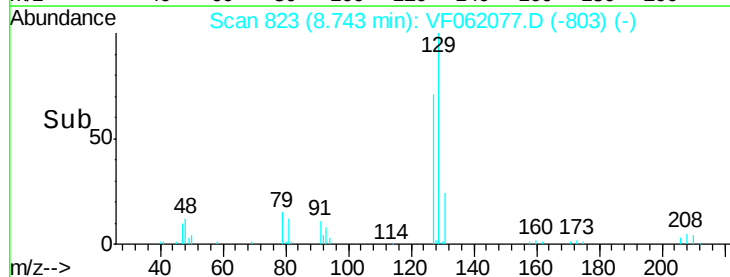
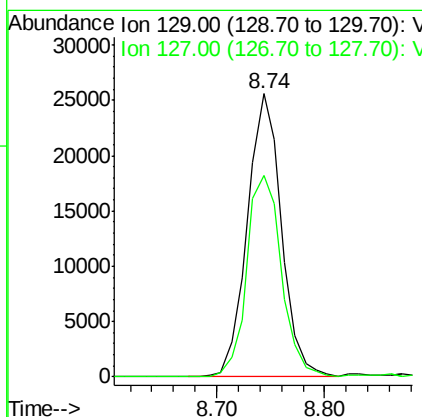
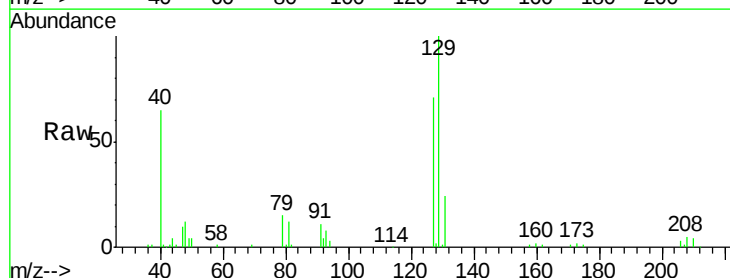
Manual Integrations
APPROVED

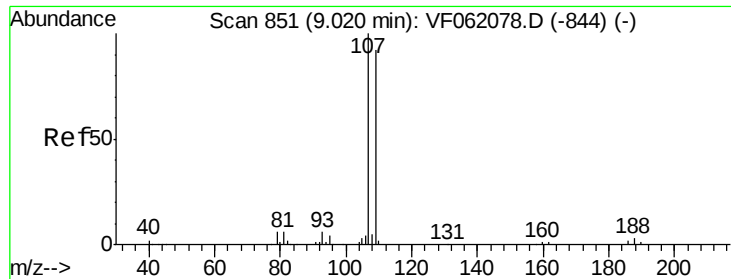
MMDadoda
3/27/2019 11:57:10 AM



#60
Dibromochloromethane
Concen: 20.607 ug/l
RT: 8.74 min Scan# 823
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
129	100		
127	71.1	38.7	116.1





#61

1,2-Dibromoethane

Concen: 20.457 ug/l

RT: 9.01 min Scan# 850

Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 42923

Ion Ratio Lower Upper

107 100

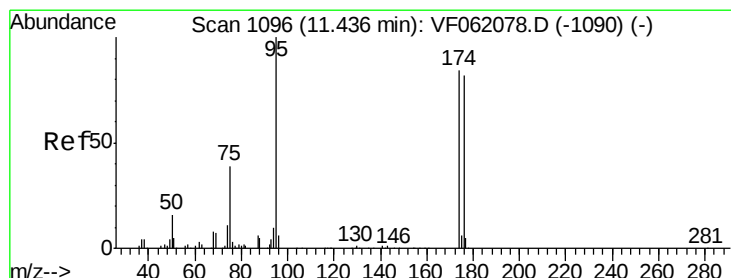
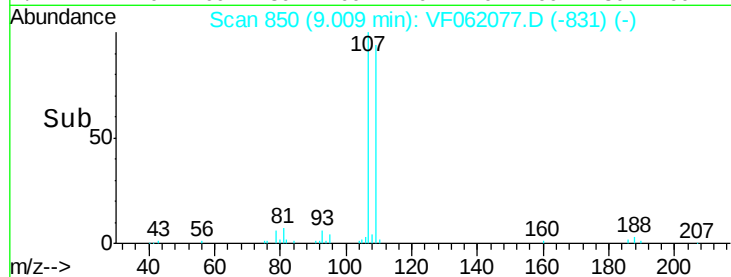
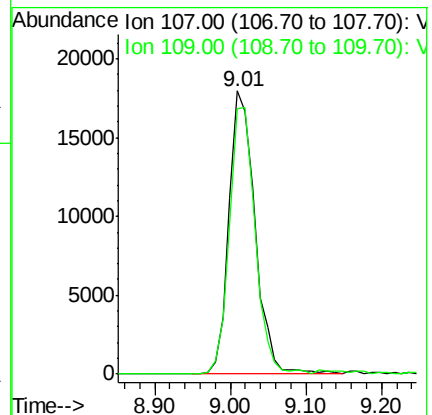
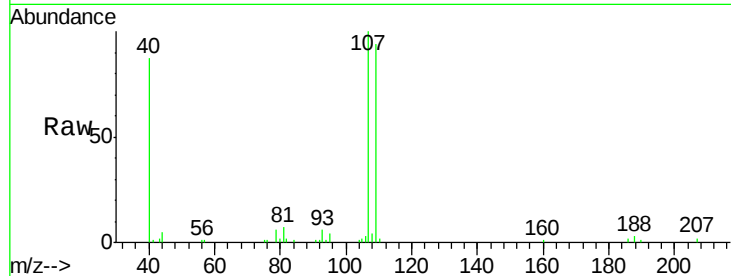
109 93.8 73.4 110.0

Manual Integrations

APPROVED

MMDadoda

3/27/2019 11:57:10 AM



#62

4-Bromofluorobenzene

Concen: 20.400 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

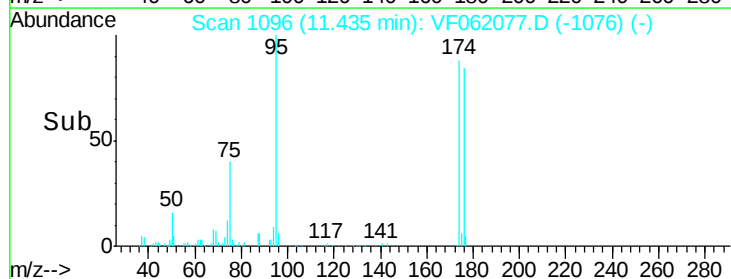
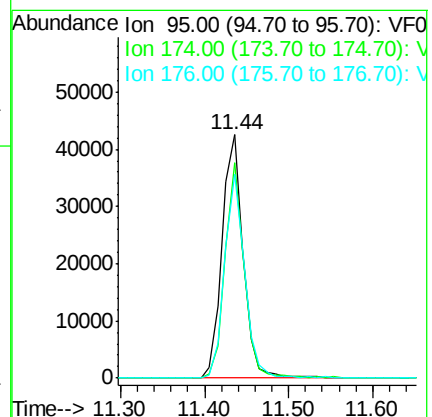
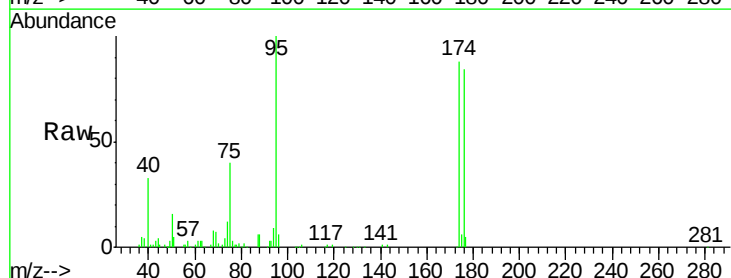
Tgt Ion: 95 Resp: 74448

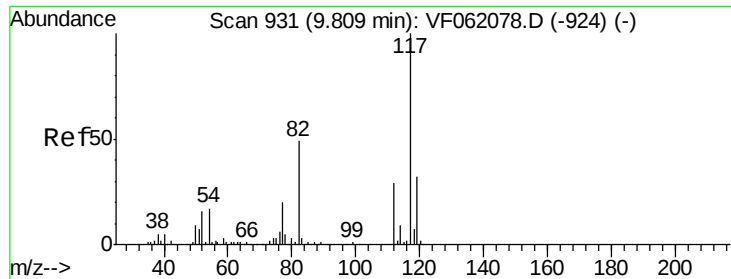
Ion Ratio Lower Upper

95 100

174 88.4 0.0 168.2

176 83.8 0.0 164.2





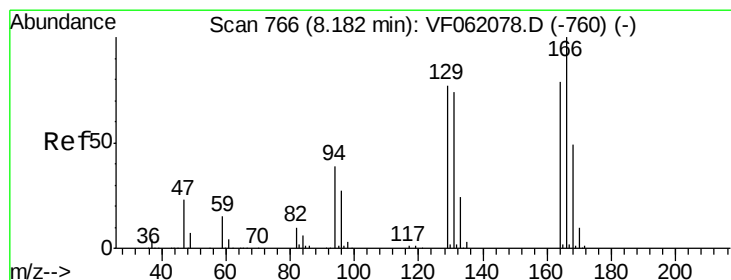
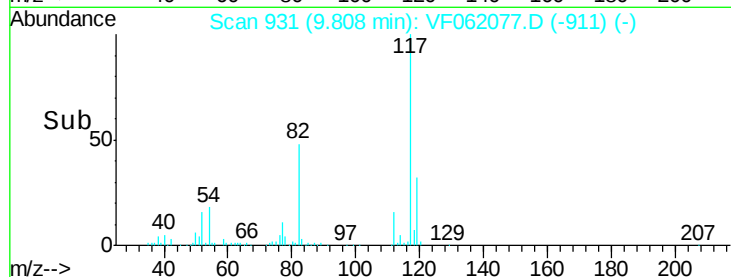
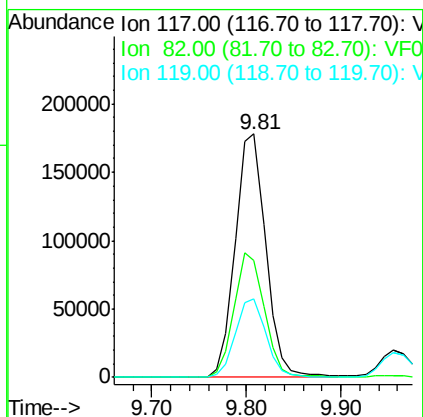
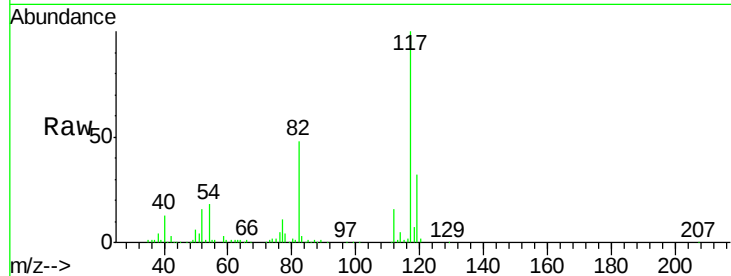
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.81 min Scan# 931
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	400435		
82	47.9		39.2	58.8
119	32.3		25.4	38.2

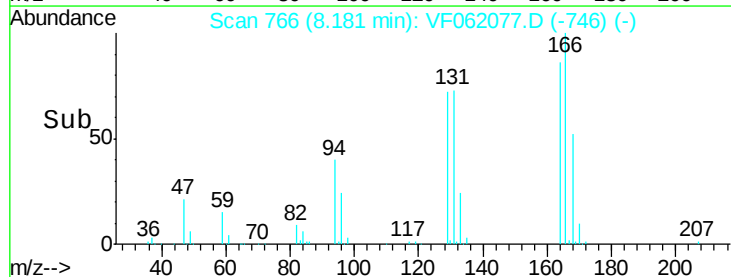
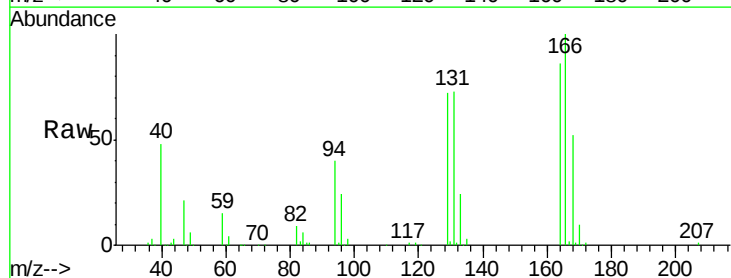
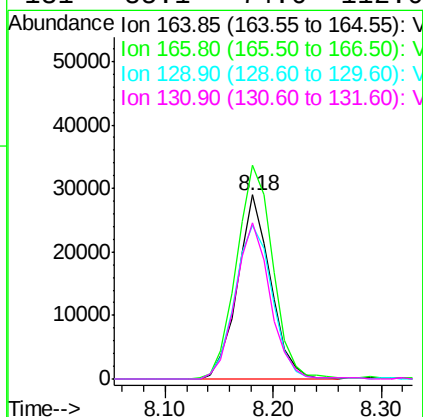
Manual Integrations
APPROVED

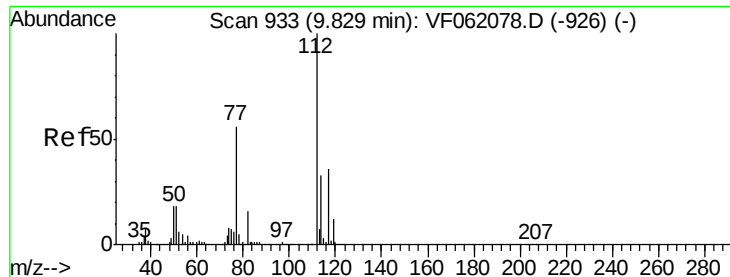
MMDadoda
3/27/2019 11:57:10 AM



#64
Tetrachloroethene
Concen: 19.889 ug/l
RT: 8.18 min Scan# 766
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	61529		
166	115.9		100.9	151.3
129	83.3		77.9	116.9
131	85.1		74.6	112.0





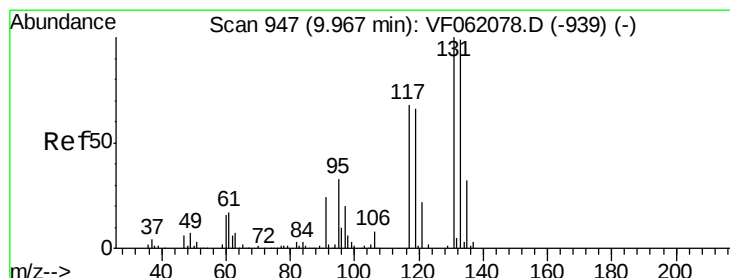
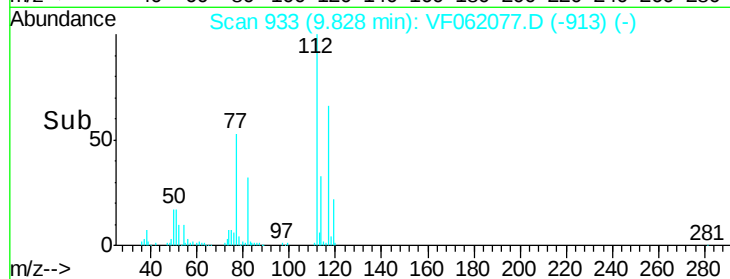
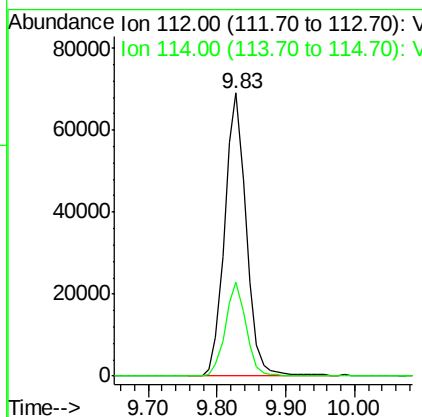
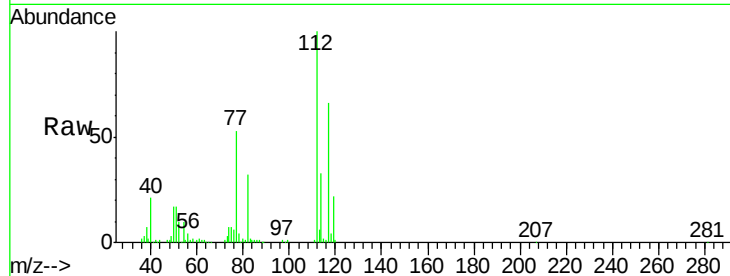
#65
Chlorobenzene
Concen: 20.062 ug/l
RT: 9.83 min Scan# 933
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
112	100	150316		
114	33.2	26.0	39.0	

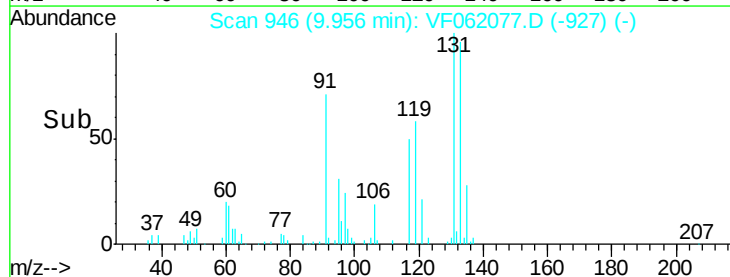
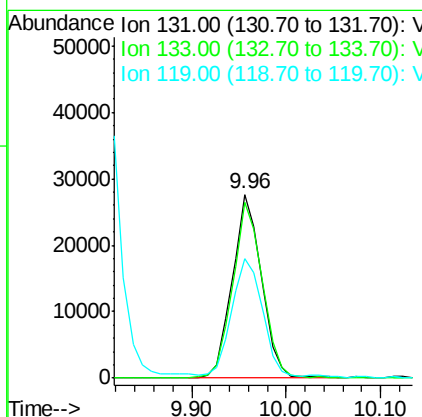
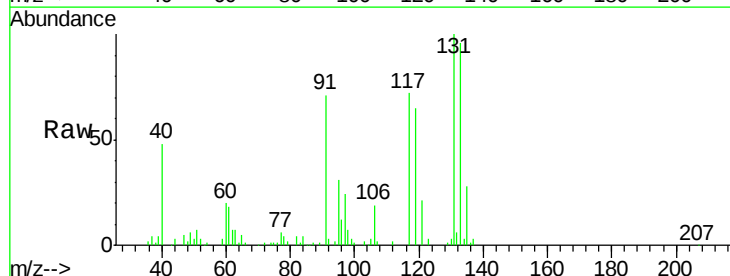
Manual Integrations
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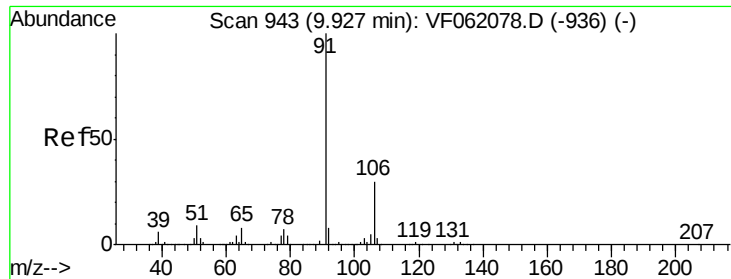
MMDadoda
3/27/2019 11:57:10 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.689 ug/l
RT: 9.96 min Scan# 946
Delta R.T. -0.01 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
131	100	59257		
133	95.7	49.3	147.8	
119	65.1	33.5	100.4	





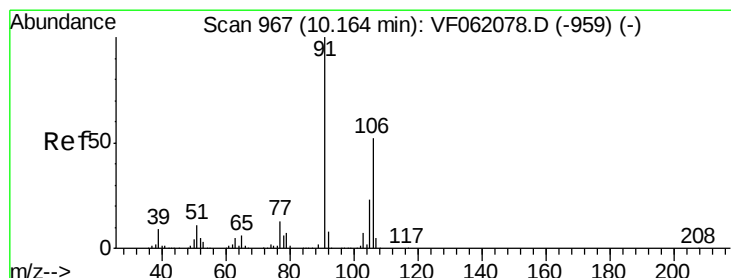
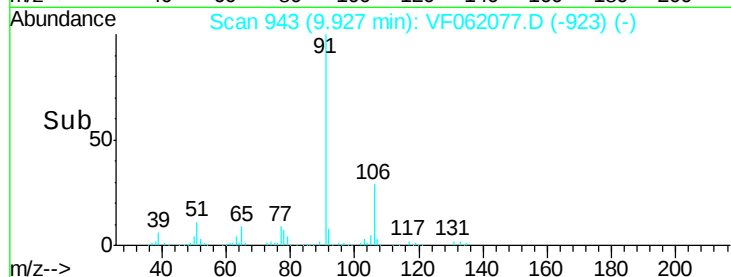
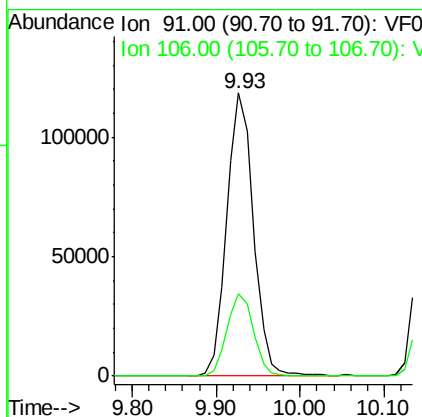
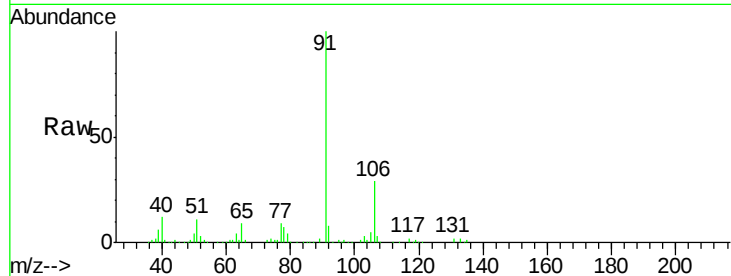
#67
Ethyl Benzene
Concen: 20.131 ug/l
RT: 9.93 min Scan# 943
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion: 91 Resp: 262302
Ion Ratio Lower Upper
91 100
106 29.2 24.0 36.0

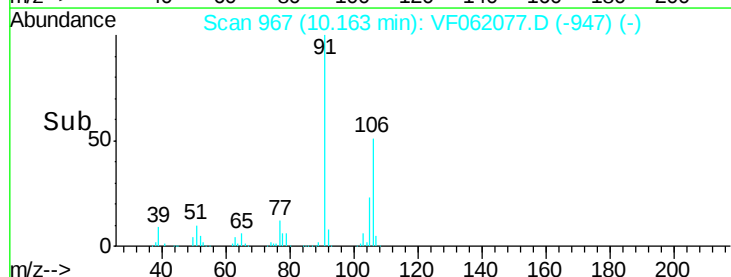
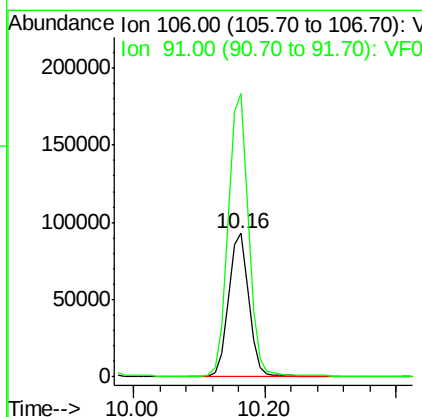
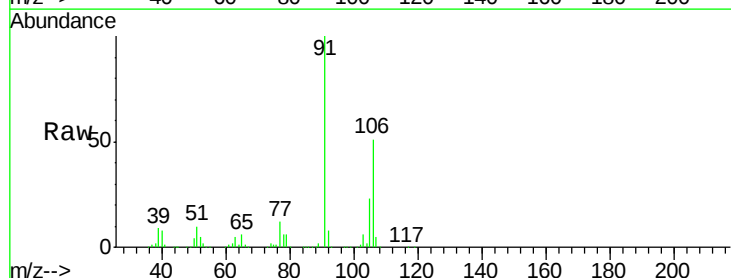
Manual Integrations
APPROVED

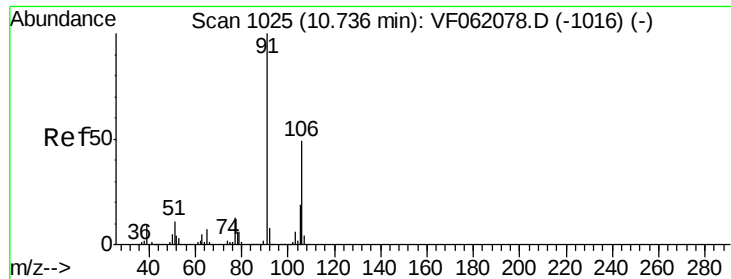
MMDadoda
3/27/2019 11:57:10 AM



#68
m/p-Xylenes
Concen: 41.473 ug/l
RT: 10.16 min Scan# 967
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion: 106 Resp: 201975
Ion Ratio Lower Upper
106 100
91 197.4 154.4 231.6





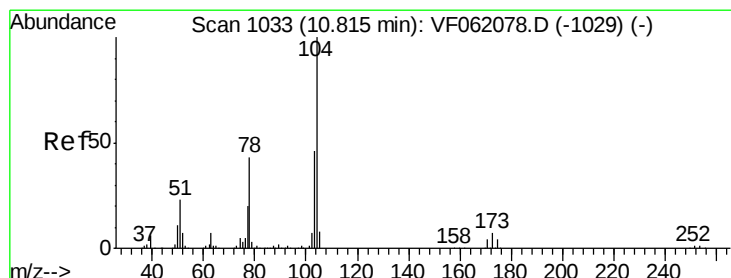
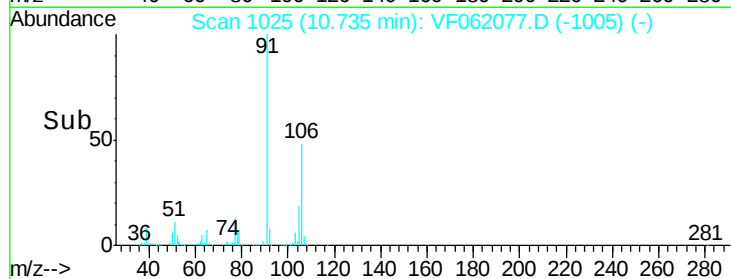
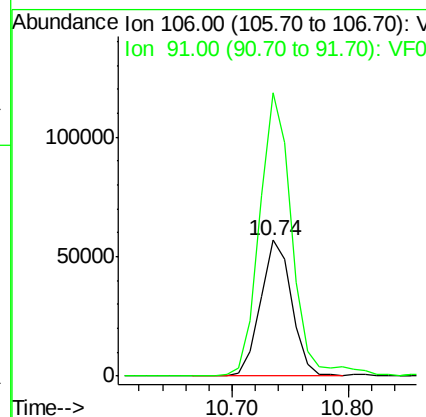
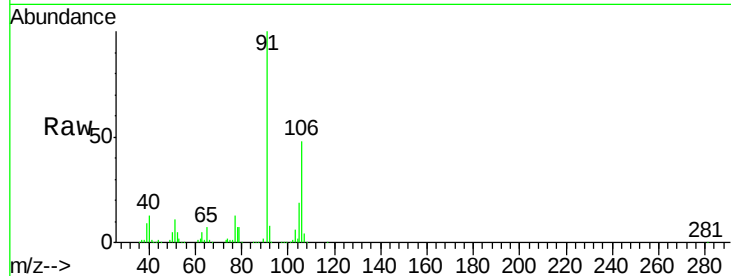
#69
o-Xylene
Concen: 20.802 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
106	100		
91	208.6	102.6	307.8

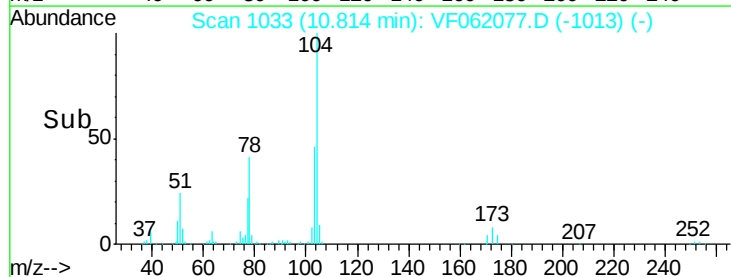
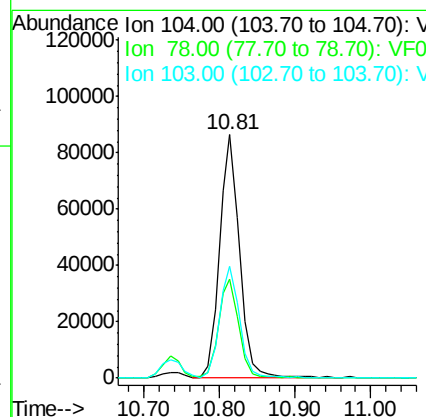
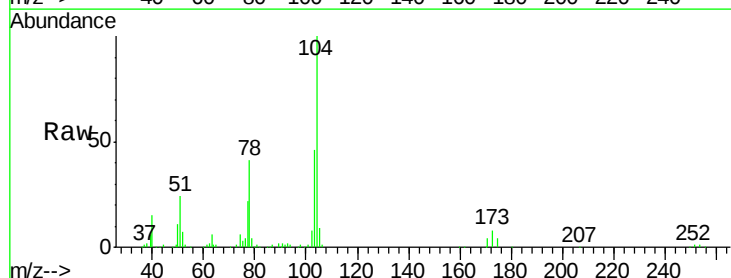
Manual Integrations
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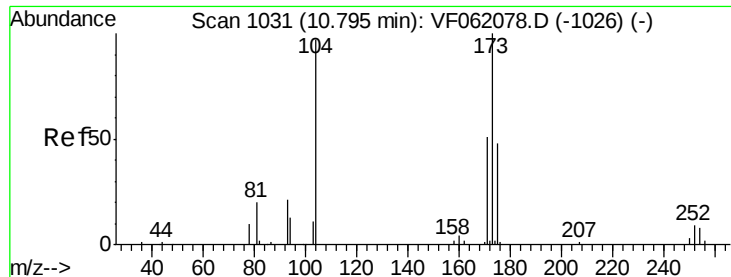
MMDadoda
3/27/2019 11:57:10 AM



#70
Styrene
Concen: 20.897 ug/l
RT: 10.81 min Scan# 1033
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
104	100		
78	40.5	34.3	51.5
103	46.1	36.9	55.3





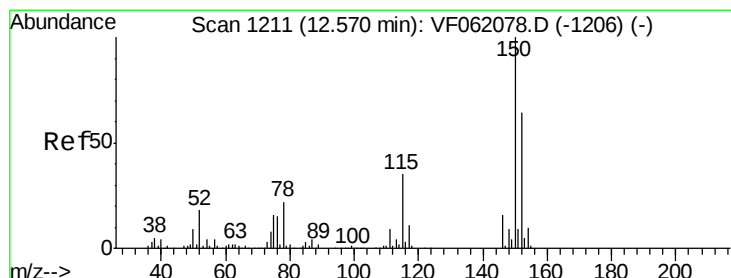
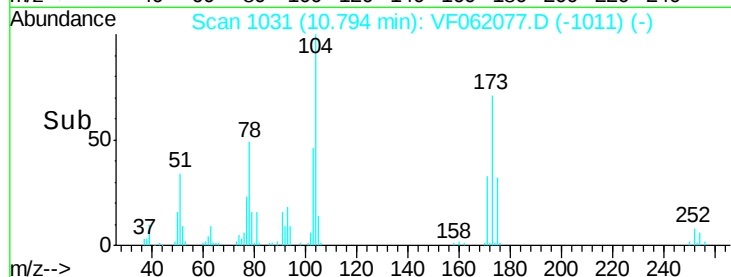
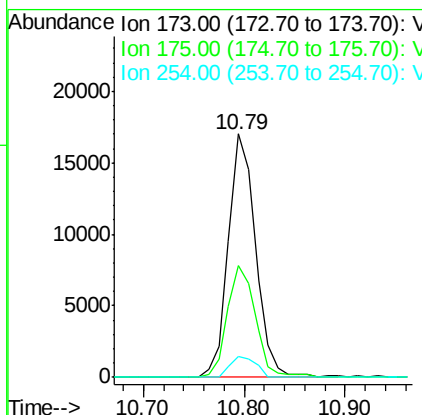
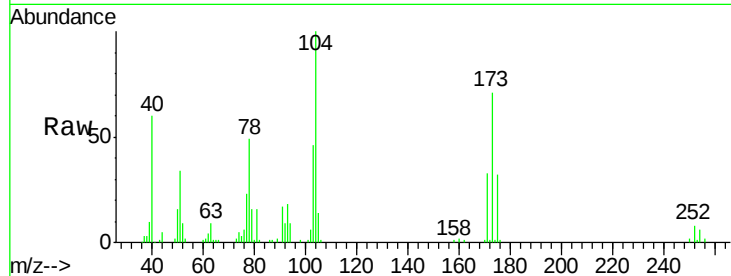
#71
Bromoform
Concen: 20.911 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
173	100		
175	45.8	24.1	72.4
254	8.4	6.2	9.4

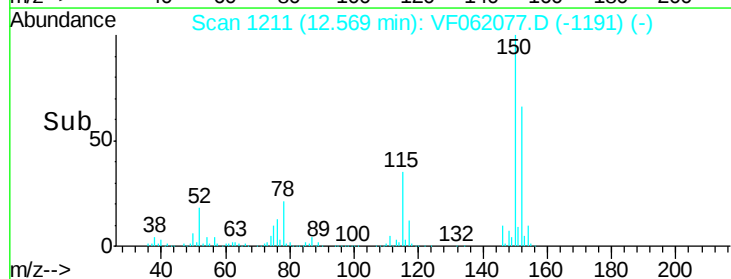
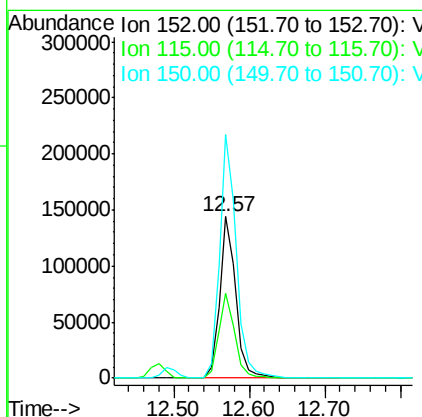
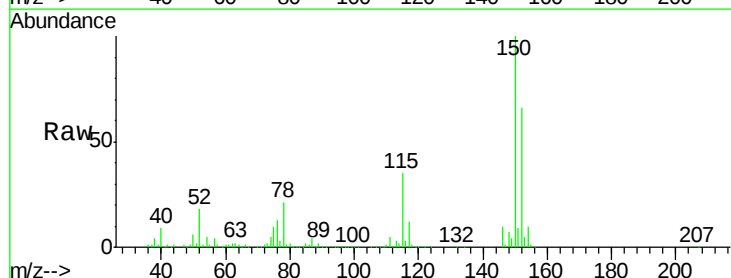
Manual Integrations
APPROVED

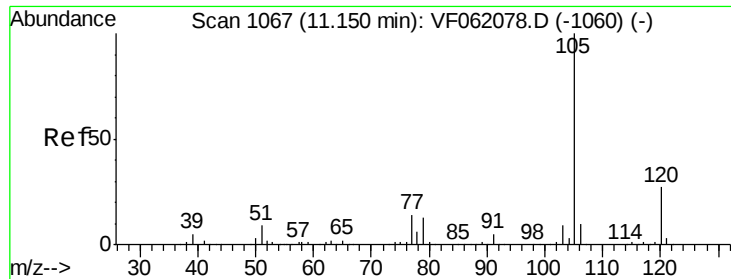
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.57 min Scan# 1211
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.9	27.7	83.1
150	150.8	0.0	313.2





#73

Isopropylbenzene

Concen: 20.078 ug/l

RT: 11.15 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 105 Resp: 304316

Ion Ratio Lower Upper

105 100

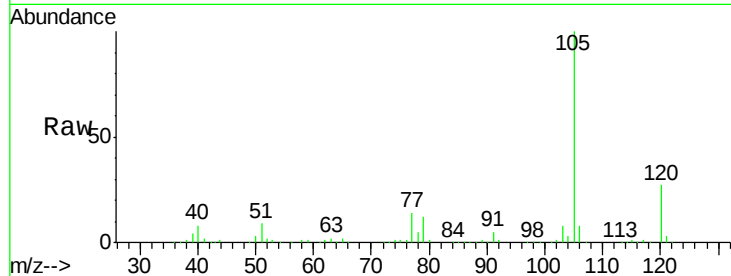
120 26.8 13.8 41.3

Manual Integrations

APPROVED

MMDadoda

3/27/2019 11:57:10 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

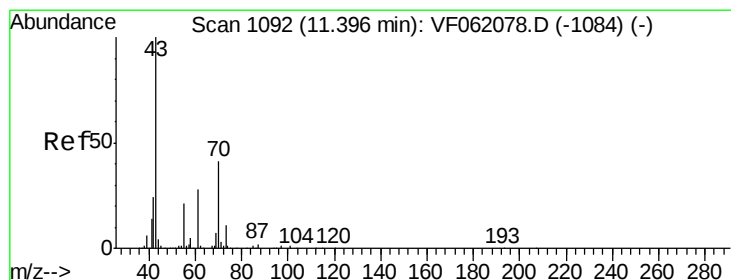
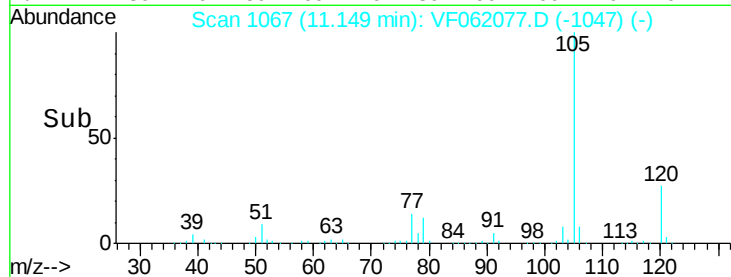
100000

50000

0

11.10 11.15 11.20 11.30

Time-->



#74

N-ethyl acetate

Concen: 20.259 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion: 43 Resp: 73167

Ion Ratio Lower Upper

43 100

70 41.0 32.9 49.3

55 22.2 17.1 25.7

61 29.9 22.2 33.2

Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

60000

50000

40000

30000

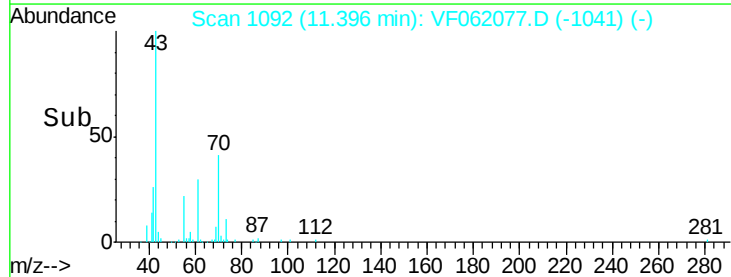
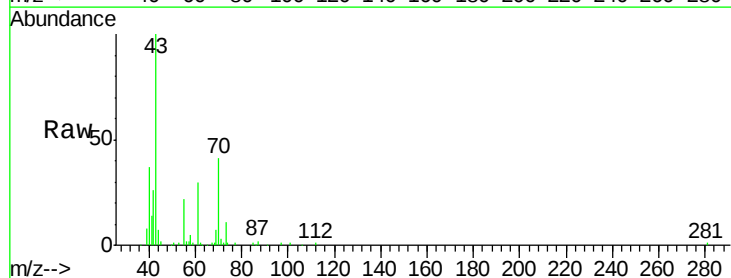
20000

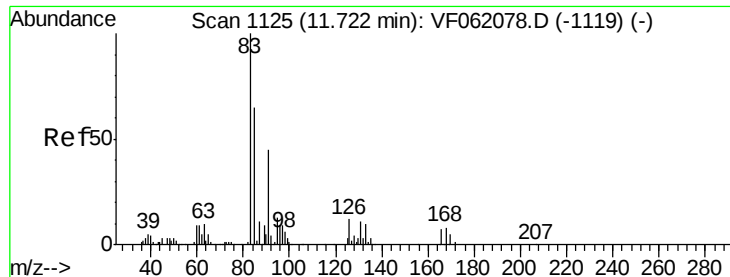
10000

0

11.30 11.40 11.50

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.384 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

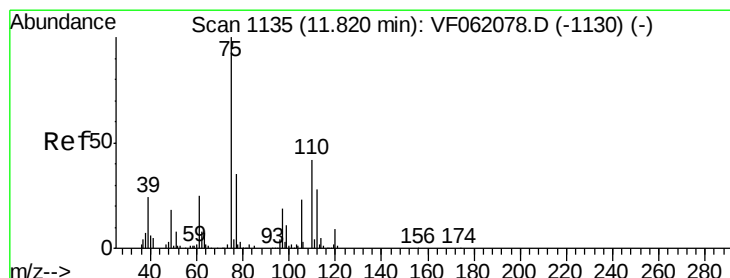
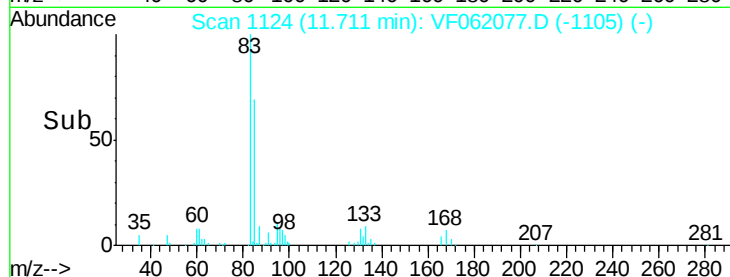
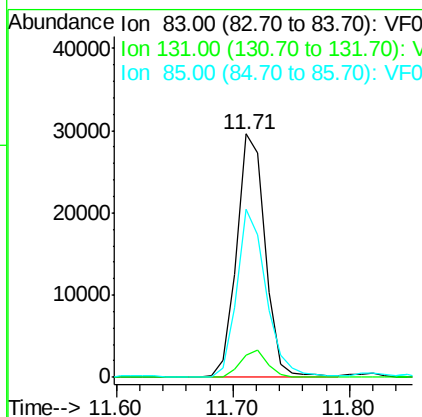
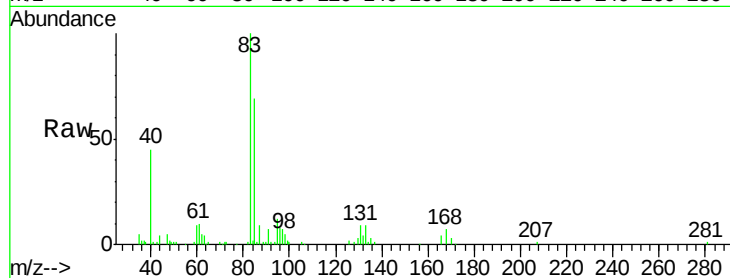
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	50446
Ion Ratio	Lower	Upper	
83	100		
131	9.2	5.3	15.8
85	68.9	32.6	98.0

Manual Integrations
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3/27/2019 11:57:10 AM



#76

1,2,3-Trichloropropane

Concen: 20.217 ug/l

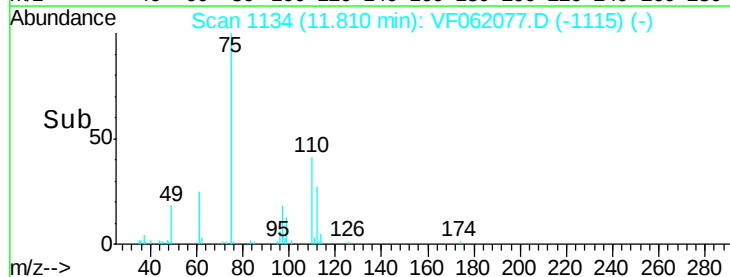
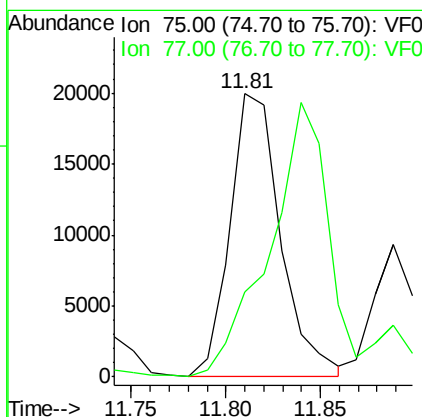
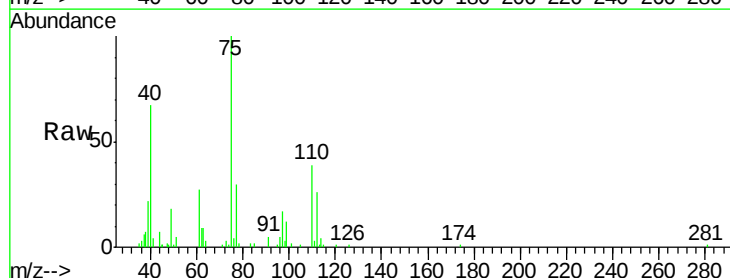
RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion:	75	Resp:	37027
Ion Ratio	Lower	Upper	
75	100		
77	30.2	17.8	53.3





#77

Bromobenzene

Concen: 20.420 ug/l

RT: 11.51 min Scan# 1104

Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

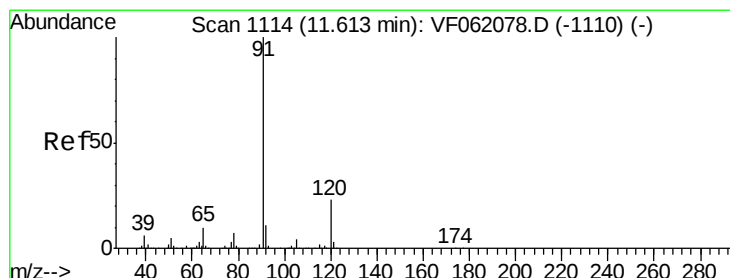
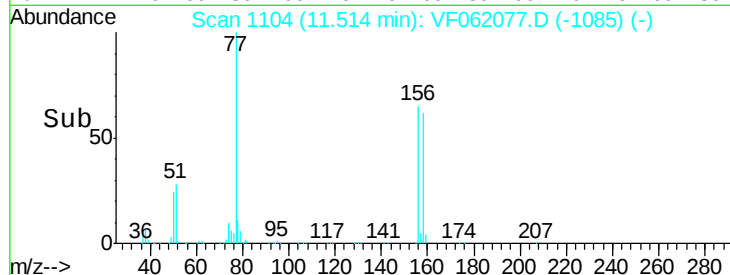
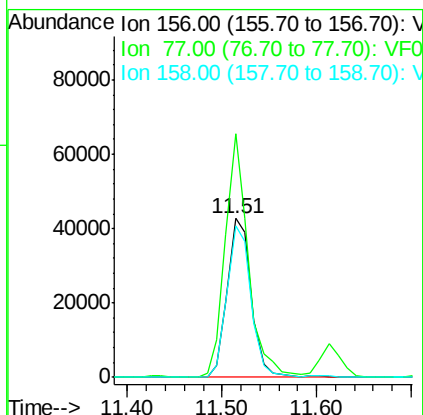
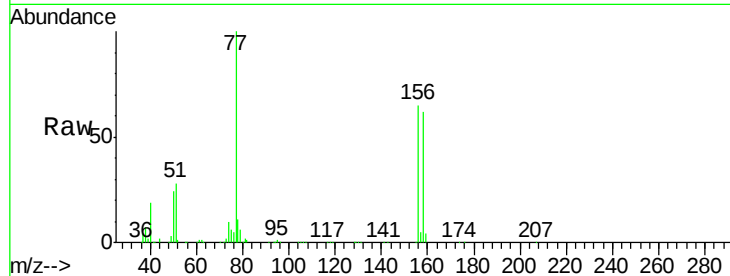
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
156	100		
77	153.0	61.3	183.9
158	95.2	48.6	145.9

Manual Integrations
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MMDadoda
3/27/2019 11:57:10 AM



#78

n-propylbenzene

Concen: 20.793 ug/l

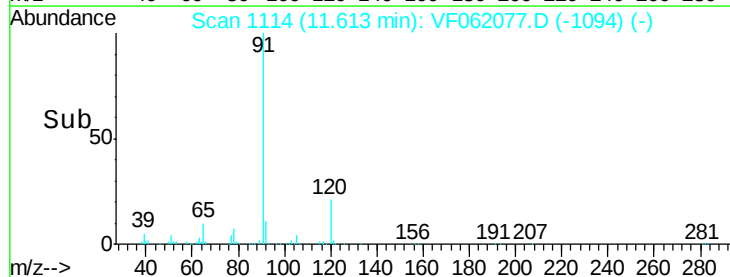
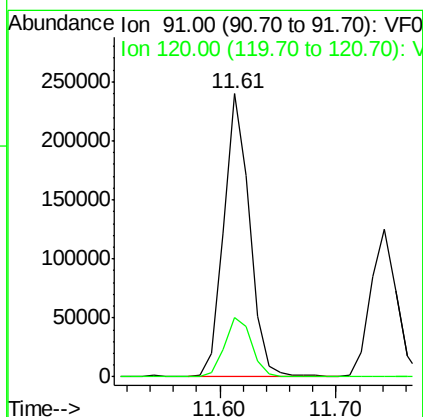
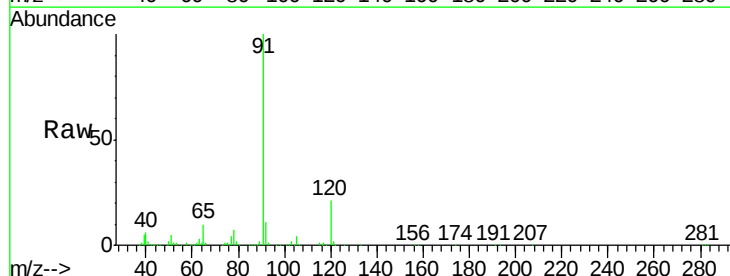
RT: 11.61 min Scan# 1114

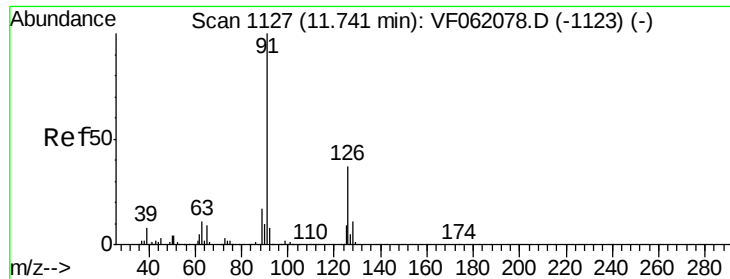
Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.8	11.3	33.8





#79

2-Chlorotoluene

Concen: 19.695 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 91 Resp: 192660

Ion Ratio Lower Upper

91 100

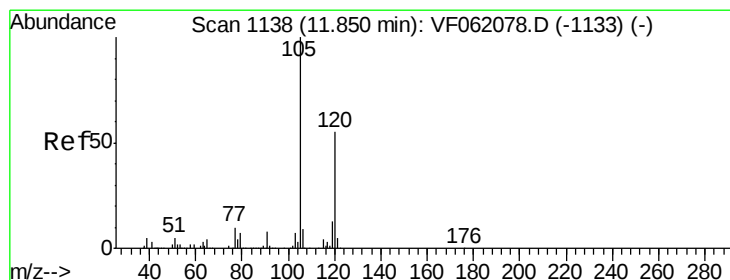
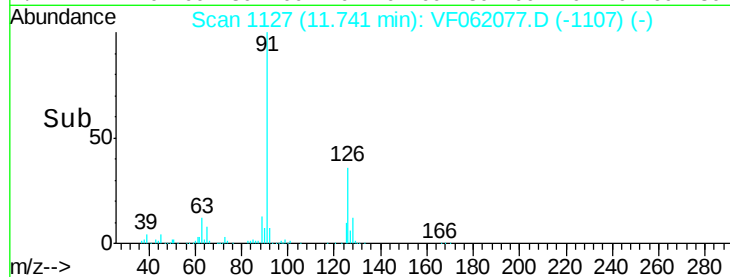
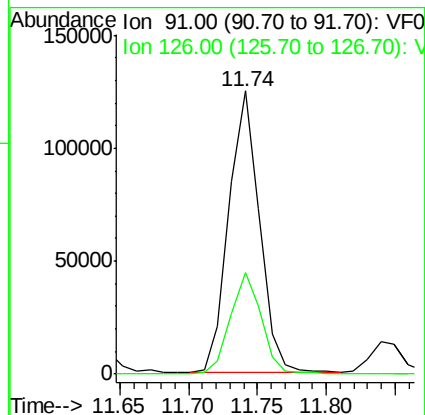
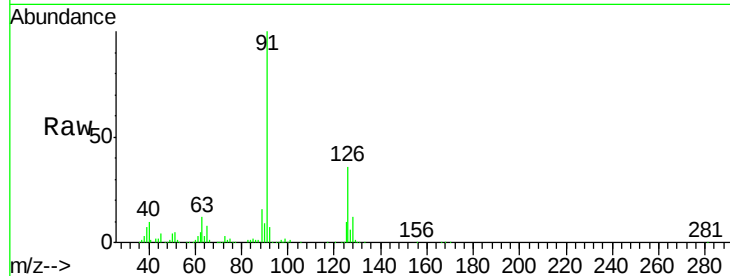
126 36.1 18.3 54.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.993 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VF062077.D

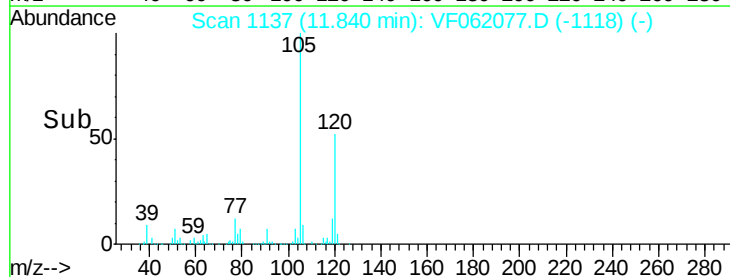
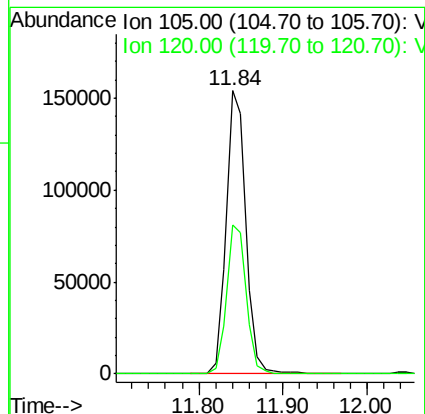
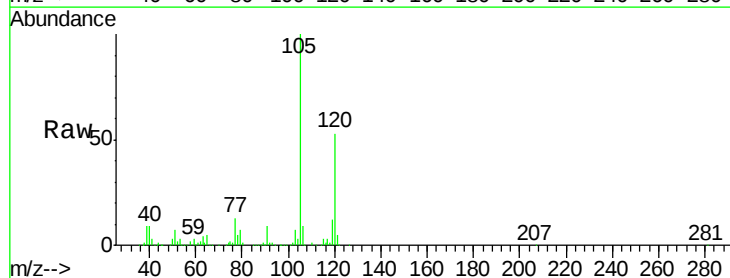
Acq: 22 Mar 2019 11:56

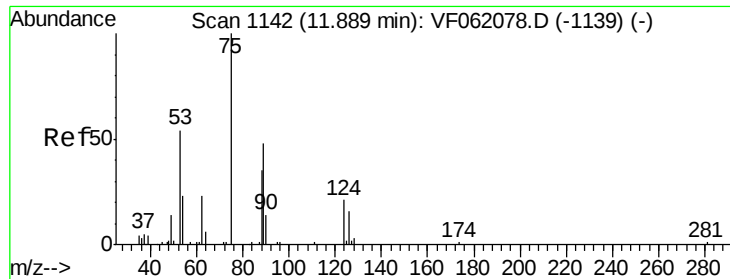
Tgt Ion: 105 Resp: 249259

Ion Ratio Lower Upper

105 100

120 52.7 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 14.982 ug/l m

RT: 11.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 14799

Ion Ratio Lower Upper

75 100

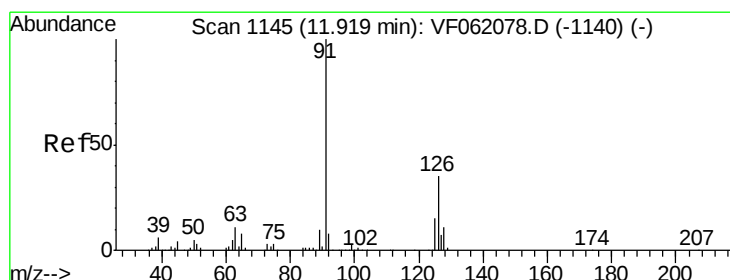
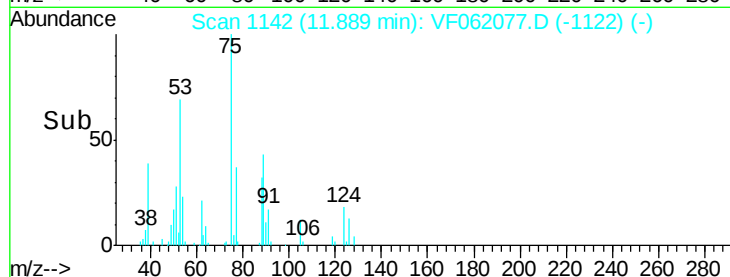
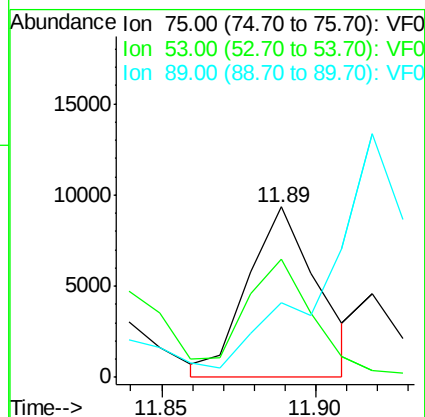
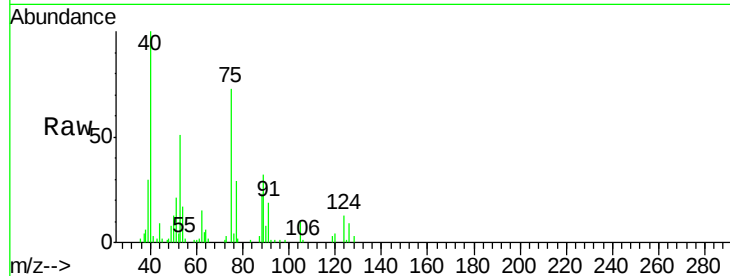
53 69.5 49.4 74.0

89 43.4 40.6 60.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 19.455 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF062077.D

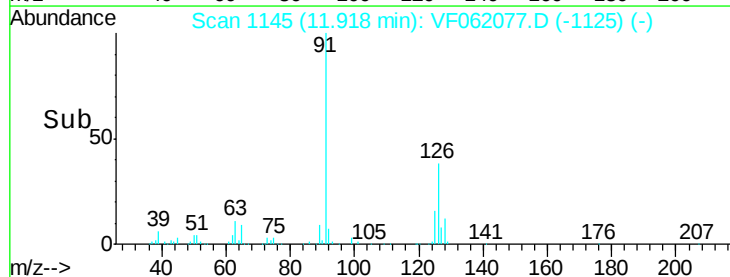
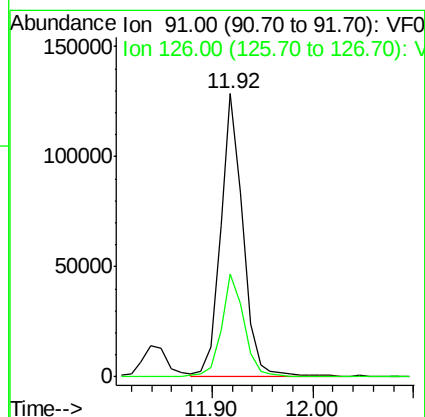
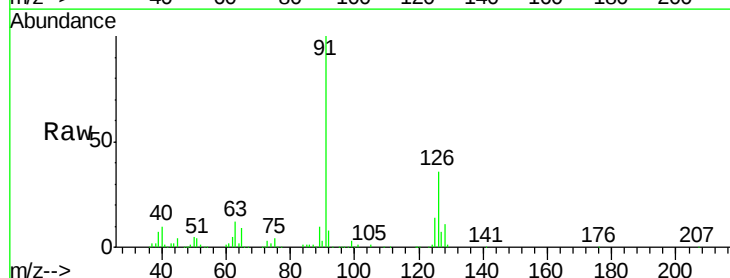
Acq: 22 Mar 2019 11:56

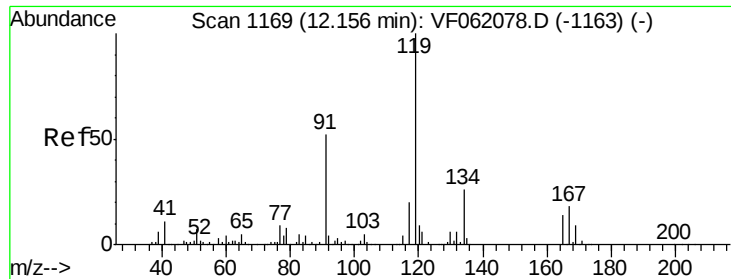
Tgt Ion: 91 Resp: 195133

Ion Ratio Lower Upper

91 100

126 36.5 17.2 51.6





#83

tert-Butylbenzene

Concen: 20.487 ug/l

RT: 12.15 min Scan# 1168

Delta R.T. -0.01 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

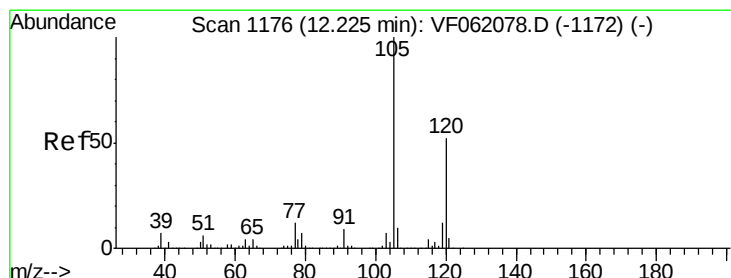
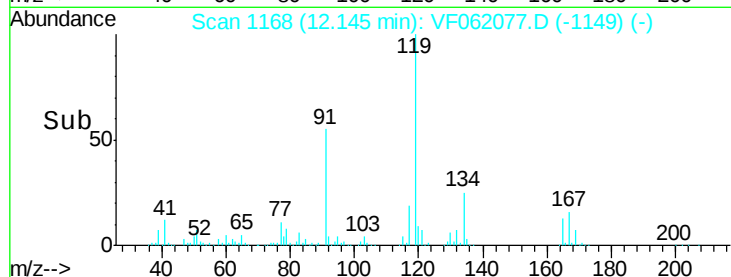
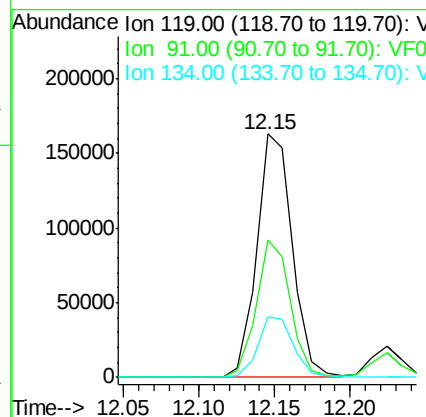
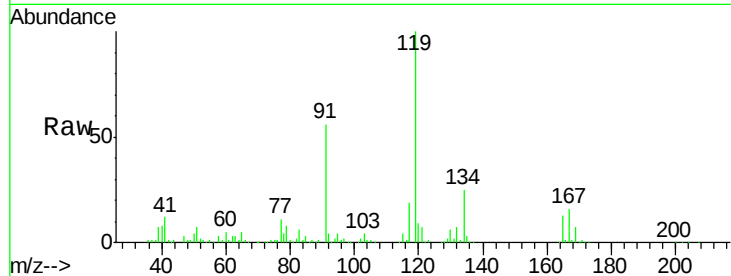
ClientSampleId :

VSTDIC020

Tot Ion:	119	Resp:	267375
Ion Ratio	Lower	Upper	
119	100		
91	56.2	26.1	78.2
134	25.1	12.8	38.4

Manual Integrations
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#84

1,2,4-Trimethylbenzene

Concen: 19.471 ug/l

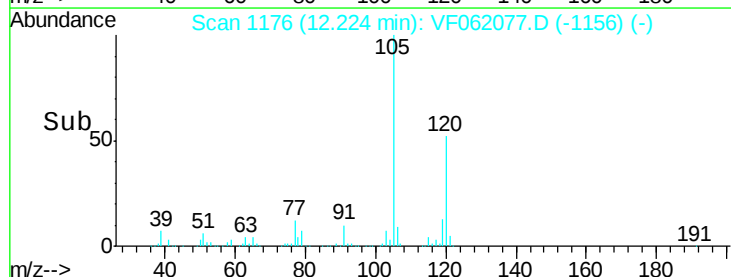
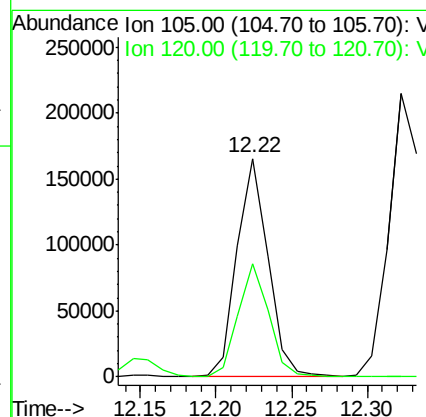
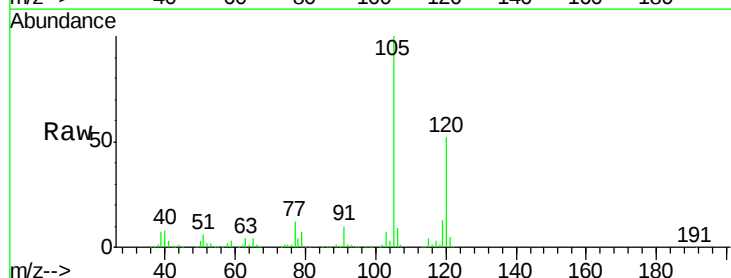
RT: 12.22 min Scan# 1176

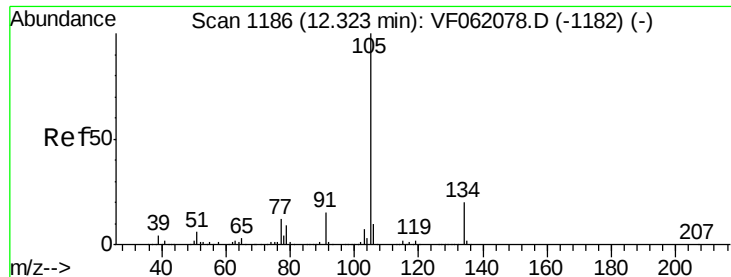
Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion:	105	Resp:	237967
Ion Ratio	Lower	Upper	
105	100		
120	51.6	26.1	78.2





#85

sec-Butylbenzene

Concen: 19.503 ug/l

RT: 12.32 min Scan# 1186

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 329274

Ion Ratio Lower Upper

105 100

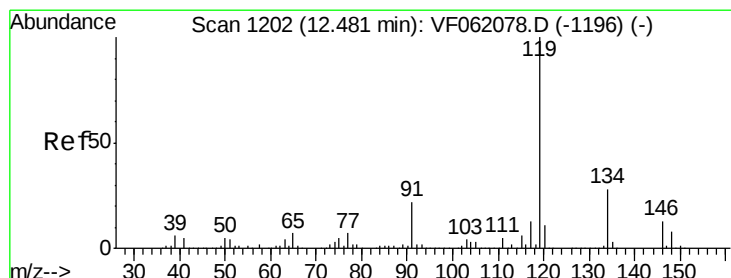
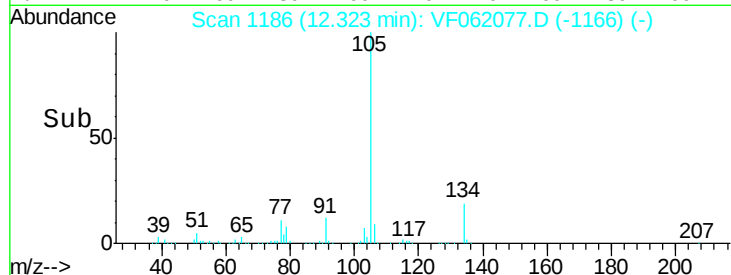
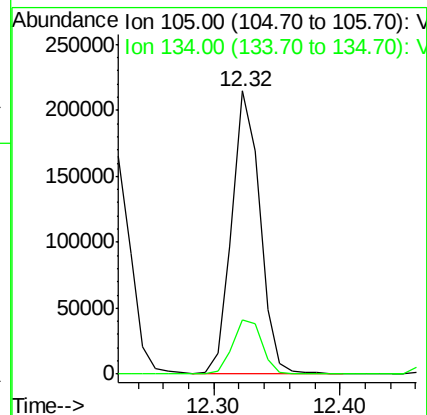
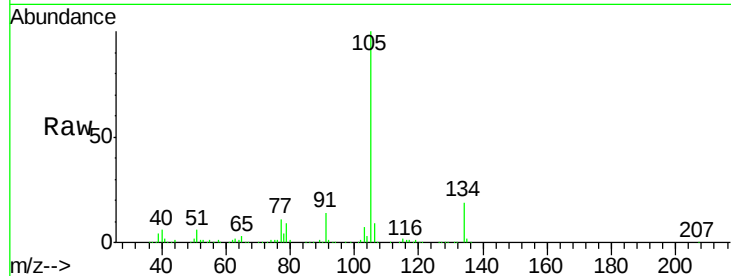
134 19.1 10.2 30.4

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 19.373 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

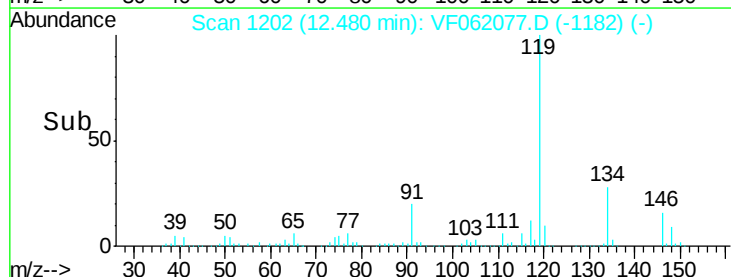
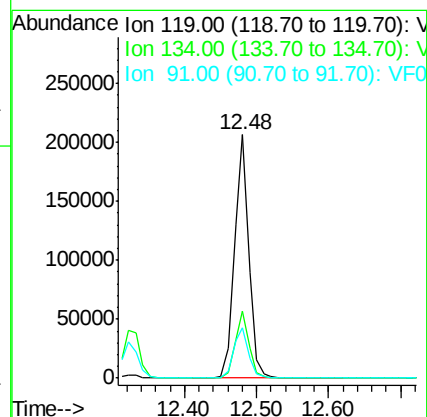
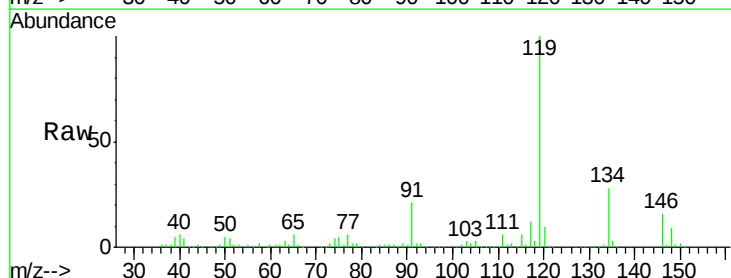
Tgt Ion:119 Resp: 283373

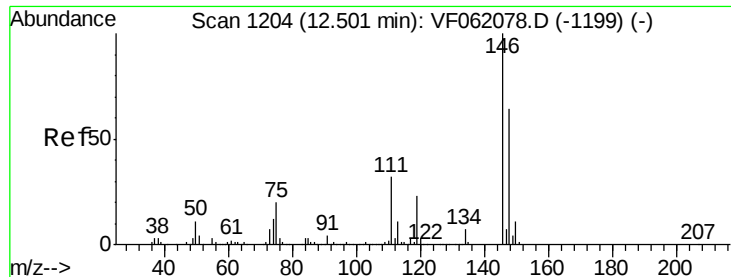
Ion Ratio Lower Upper

119 100

134 27.6 14.0 42.0

91 20.5 10.8 32.4





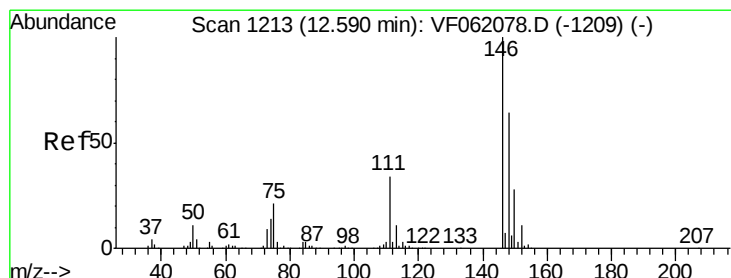
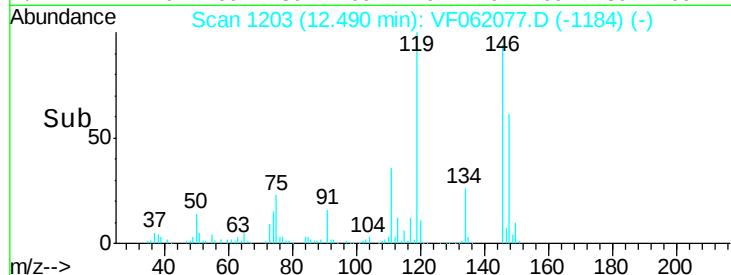
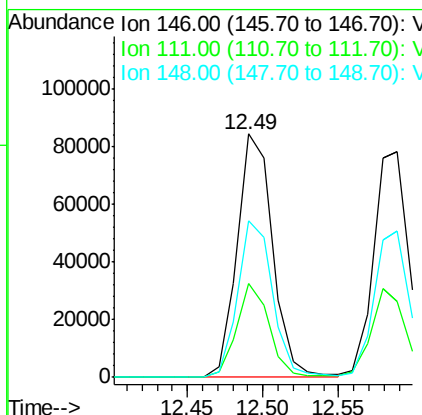
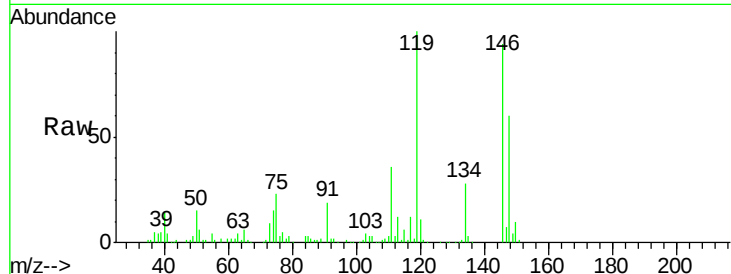
#87
 1,3-Dichlorobenzene
 Concen: 20.013 ug/l
 RT: 12.49 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	16.1	48.3
148	64.2	31.9	95.7

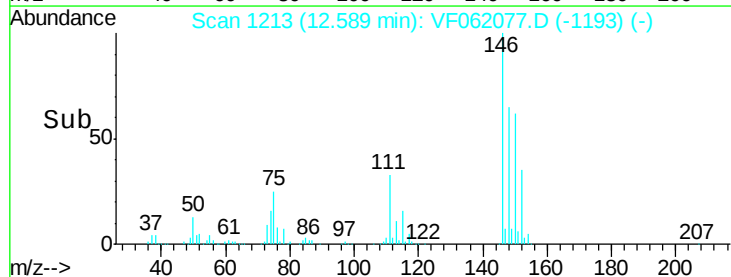
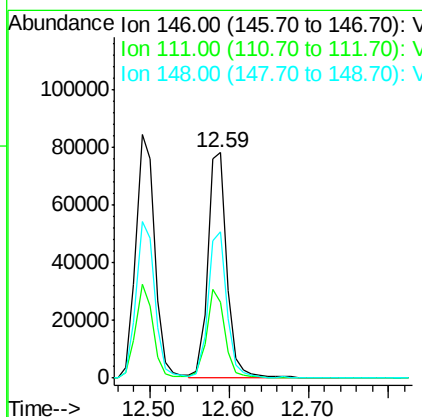
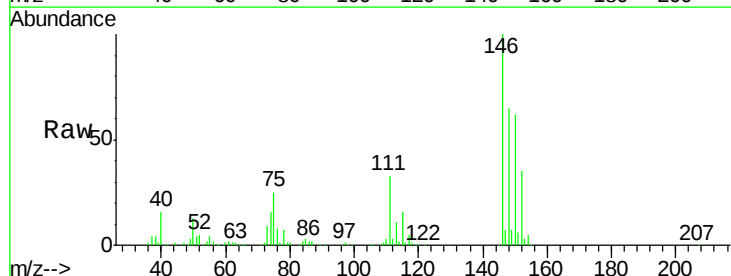
Manual Integrations
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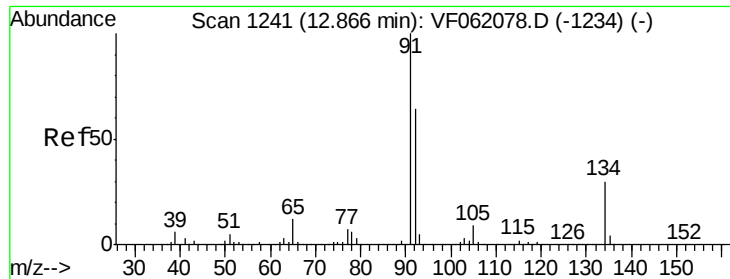
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 3/27/2019 11:57:10 AM



#88
 1,4-Dichlorobenzene
 Concen: 19.697 ug/l
 RT: 12.59 min Scan# 1213
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	33.4	16.9	50.6
148	65.2	31.9	95.7





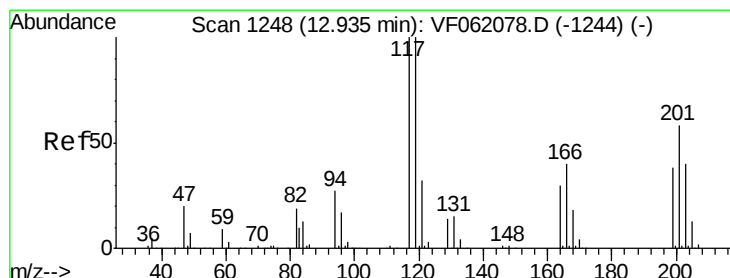
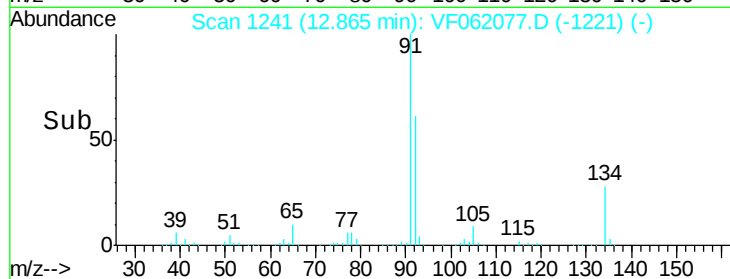
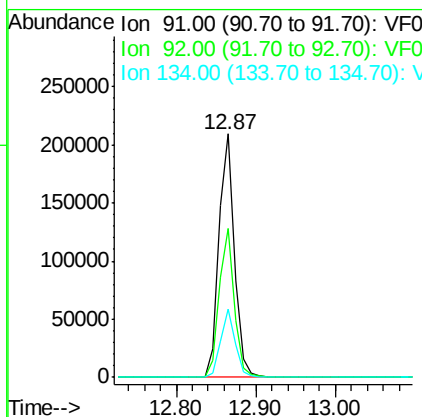
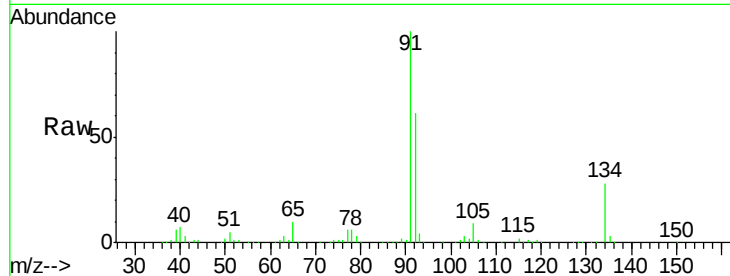
#89
n-Butylbenzene
Concen: 20.798 ug/l
RT: 12.87 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Instrument :
MSVOA_F
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
91	100		
92	60.9	31.9	95.5
134	27.8	14.9	44.9

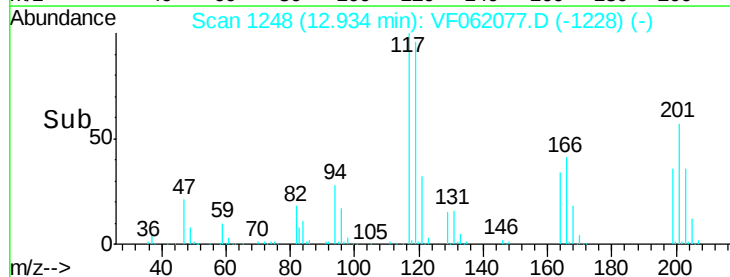
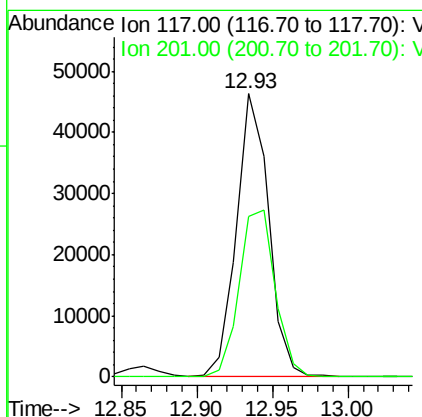
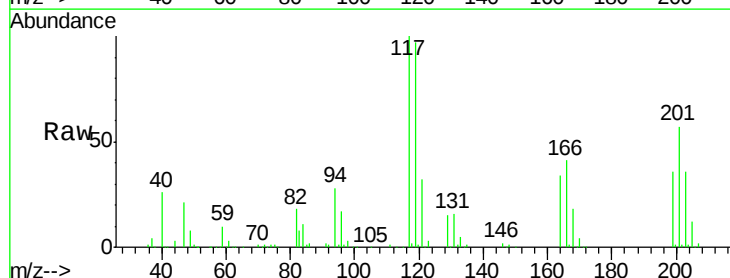
Manual Integrations
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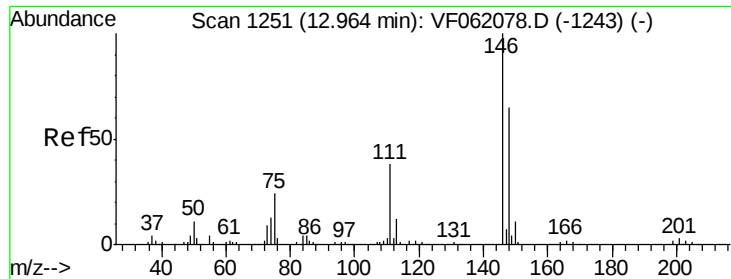
MMDadoda
3/27/2019 11:57:10 AM



#90
Hexachloroethane
Concen: 19.669 ug/l
RT: 12.93 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VF062077.D
Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
117	100		
201	56.8	28.7	86.1





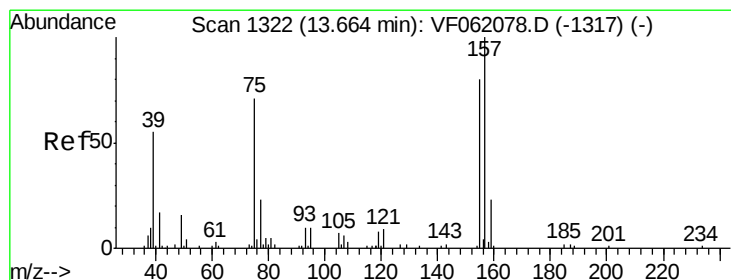
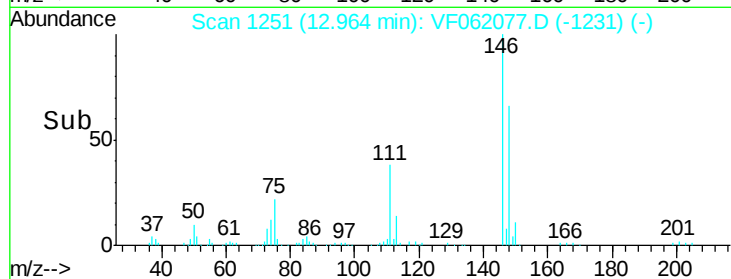
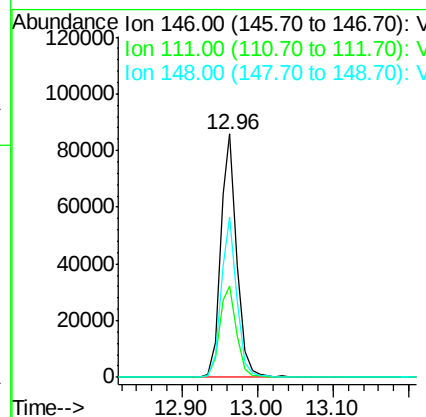
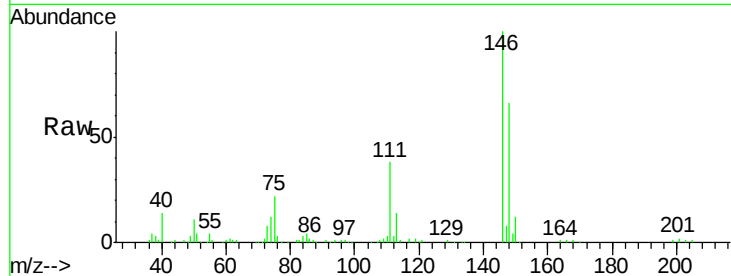
#91
 1,2-Dichlorobenzene
 Concen: 20.050 ug/l
 RT: 12.96 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.1	57.3
148	65.9	32.8	98.3

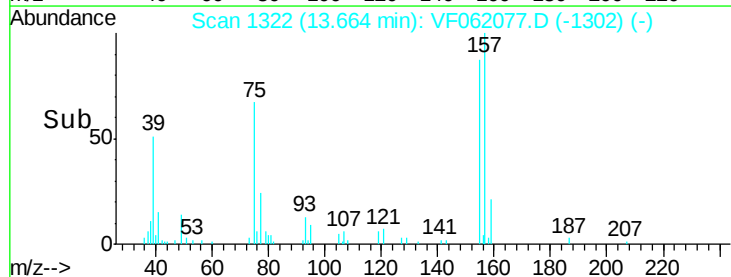
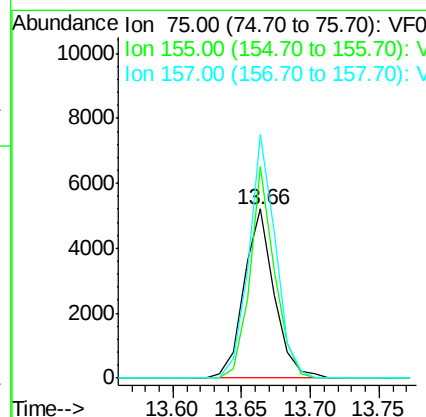
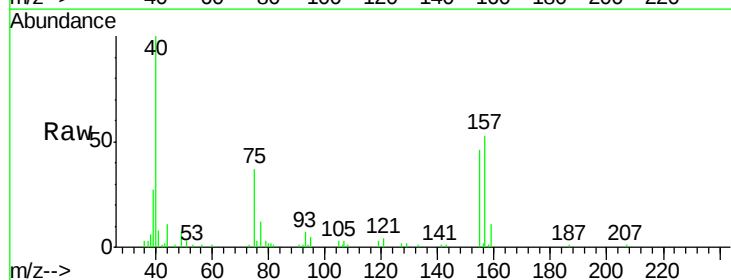
Manual Integrations
 APPROVED

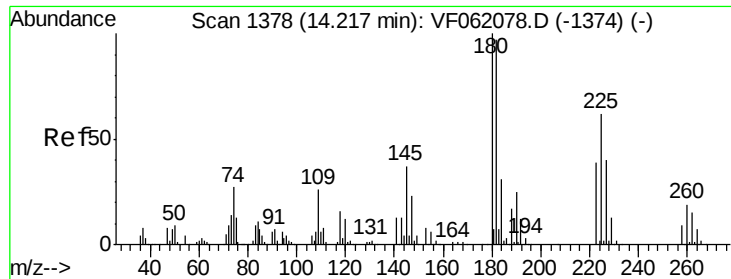
MMDadoda
 3/27/2019 11:57:10 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.154 ug/l
 RT: 13.66 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	125.1	56.1	168.4
157	144.0	70.4	211.2





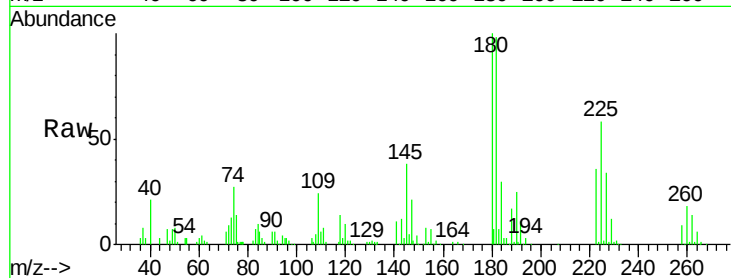
#93
 1,2,4-Trichlorobenzene
 Concen: 19.622 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDIC020

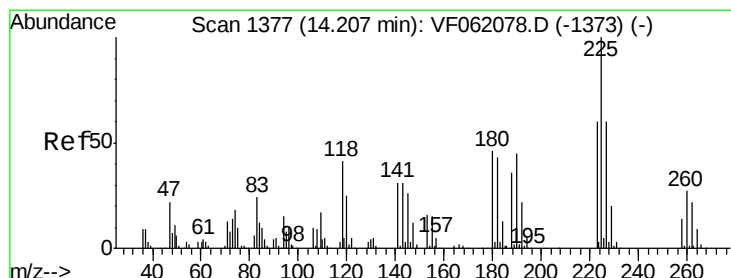
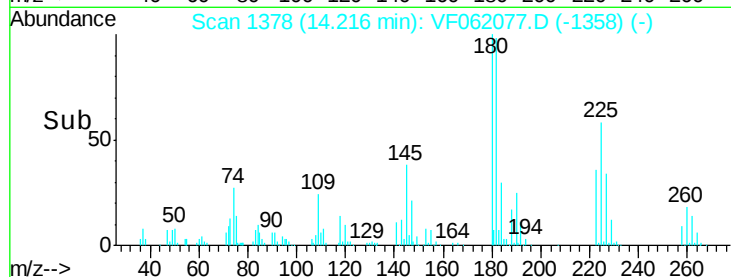
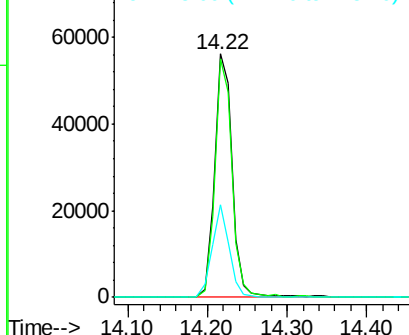
Tot Ion	Ratio	Resp	Lower	Upper
180	100	88344		
182	98.1	48.7	146.1	
145	37.8	18.3	54.8	

Manual Integrations
 APPROVED

MMDadoda
 3/27/2019 11:57:10 AM

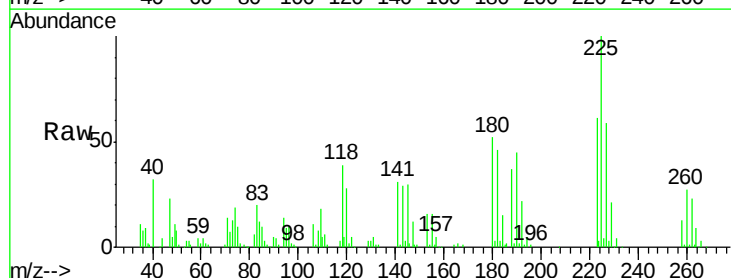


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

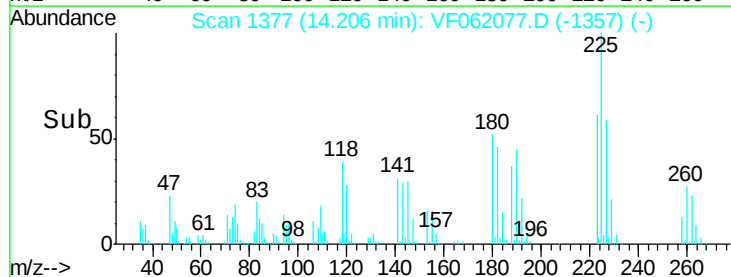
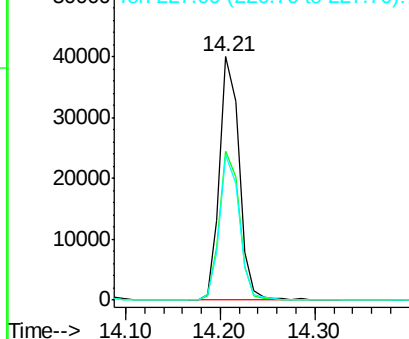


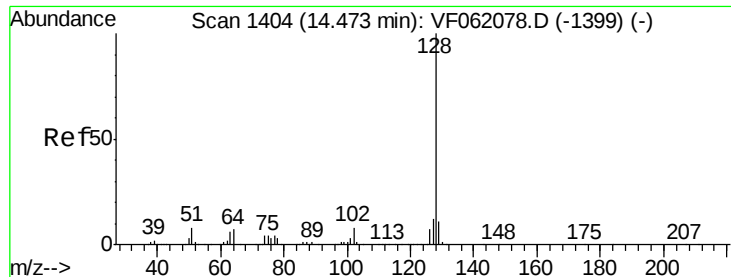
#94
 Hexachlorobutadiene
 Concen: 19.376 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF062077.D
 Acq: 22 Mar 2019 11:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	58006		
223	61.4	30.0	90.0	
227	59.4	30.2	90.6	



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 19.297 ug/l

RT: 14.47 min Scan# 1404

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Instrument :

MSVOA_F

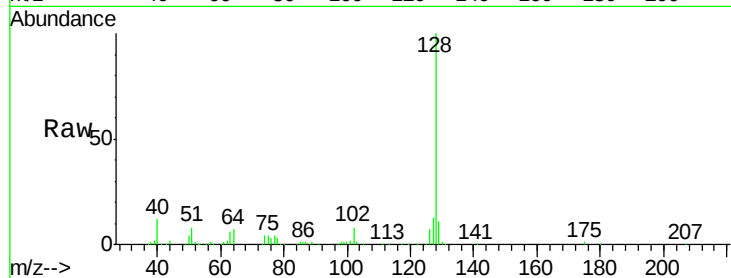
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	152253
Ion Ratio	Lower	Upper	
128	100		
127	12.7	9.5	14.3
129	11.4	8.7	13.1

Manual Integrations
APPROVED

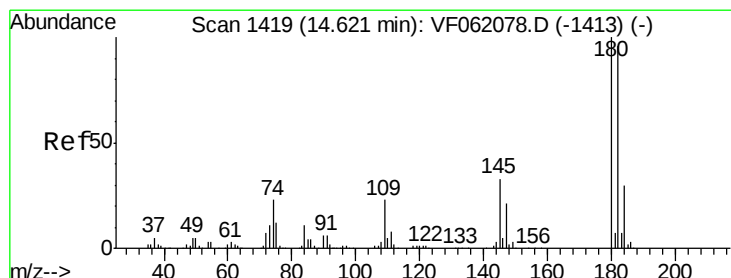
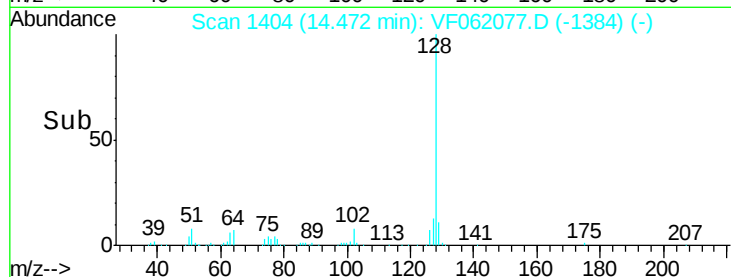
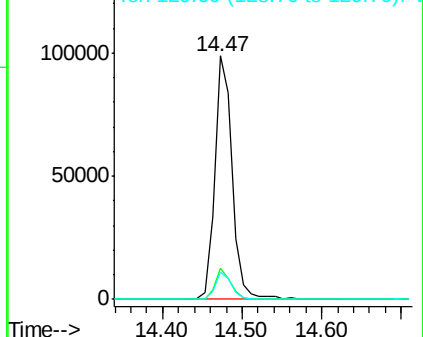
MMDadoda
3/27/2019 11:57:10 AM



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: 19.357 ug/l

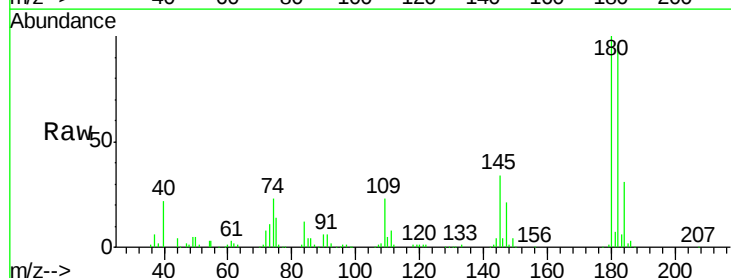
RT: 14.62 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF062077.D

Acq: 22 Mar 2019 11:56

Tgt Ion:	180	Resp:	81581
Ion Ratio	Lower	Upper	
180	100		
182	96.5	47.9	143.7
145	33.8	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

