

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062118.D
 Acq On : 23 Mar 2019 15:39
 Operator : VA/AP
 Sample : K2045-03MSD
 Misc : 5.82g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 12:40:38 PM

Quant Time: Mar 25 04:11:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	57399	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	69956	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.78	117	43898	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.55	152	17767	50.00	ug/l	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.84	65	10830	25.37	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	50.74%	
35) Dibromofluoromethane	4.11	113	21018	44.41	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	88.82%	
50) Toluene-d8	7.55	98	70526	49.93	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	99.86%	
62) 4-Bromofluorobenzene	11.41	95	18493	33.91	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	67.82%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.97	85	51703	70.313	ug/l	96
3) Chloromethane	1.09	50	38000	49.388	ug/l	97
4) Vinyl Chloride	1.14	62	45733	64.260	ug/l	94
5) Bromomethane	1.31	94	29996	58.633	ug/l	95
6) Chloroethane	1.38	64	21536	60.112	ug/l	98
7) Trichlorofluoromethane	1.47	101	67655	78.712	ug/l	92
8) Diethyl Ether	1.64	74	3932	20.026	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	1.83	101	42418	72.338	ug/l	93
10) Methyl Iodide	1.85	142	50939m	45.713	ug/l	
11) Tert butyl alcohol	2.57	59	1742	74.156	ug/l #	28
12) 1,1-Dichloroethene	1.76	96	34226	61.860	ug/l	92
13) Acrolein	2.01	56	2825	100.007	ug/l #	84
14) Allyl chloride	2.10	41	36015	60.969	ug/l	93
15) Acrylonitrile	2.94	53	6337	76.714	ug/l #	71
16) Acetone	2.25	43	12789	142.328	ug/l #	86
17) Carbon Disulfide	1.77	76	110604	65.556	ug/l	100
18) Methyl Acetate	2.35	43	5059	23.602	ug/l #	82
19) Methyl tert-butyl Ether	2.44	73	16347	18.694	ug/l #	91
20) Methylene Chloride	2.18	84	19410	34.961	ug/l #	91
21) trans-1,2-Dichloroethene	2.31	96	30496	57.286	ug/l	92
22) Diisopropyl ether	2.80	45	40560	26.189	ug/l #	98
23) Vinyl Acetate	3.20	43	38615	60.897	ug/l	97
24) 1,1-Dichloroethane	2.87	63	43392	46.720	ug/l	97
25) 2-Butanone	4.38	43	25533	136.114	ug/l #	65
26) 2,2-Dichloropropane	3.60	77	32933	87.455	ug/l	97
27) cis-1,2-Dichloroethene	3.47	96	26875	38.098	ug/l	95
28) Bromochloromethane	3.73	49	9755	25.707	ug/l	86
29) Tetrahydrofuran	4.08	42	6597	80.886	ug/l #	84
30) Chloroform	3.87	83	38977	39.710	ug/l	98
31) Cyclohexane	3.70	56	60174	62.035	ug/l	89
32) 1,1,1-Trichloroethane	4.10	97	45785	76.683	ug/l	96
36) 1,1-Dichloropropene	4.29	75	48911	73.403	ug/l	95
37) Ethyl Acetate	4.12	43	6703	23.018	ug/l #	1
38) Carbon Tetrachloride	4.00	117	45206	99.540	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.45	83	56939	73.627	ug/l	94
40) Benzene	4.64	78	94306	52.794	ug/l	98
41) Methacrylonitrile	4.75	41	3051	19.801	ug/l #	76
42) 1,2-Dichloroethane	4.94	62	12767	30.224	ug/l	93
43) Isopropyl Acetate	6.96	43	5687	16.126	ug/l #	86
44) Trichloroethene	5.50	130	33091	60.592	ug/l	97
45) 1,2-Dichloropropane	6.23	63	16241	38.120	ug/l	97
46) Dibromomethane	6.08	93	5981	22.960	ug/l #	83
47) Bromodichloromethane	6.38	83	21036	36.457	ug/l #	82
48) Methyl methacrylate	6.72	41	3962	19.731	ug/l #	79
49) 1,4-Dioxane	6.71	88	577	327.482	ug/l #	87
51) 4-Methyl-2-Pentanone	8.26	43	17503	74.152	ug/l	99
52) Toluene	7.62	92	58108	56.163	ug/l	97
53) t-1,3-Dichloropropene	8.27	75	12103	26.720	ug/l	99
54) cis-1,3-Dichloropropene	7.30	75	20089	30.996	ug/l	96
55) 1,1,2-Trichloroethane	8.50	97	7107	24.183	ug/l	88
56) Ethyl methacrylate	8.62	69	6416	18.306	ug/l	96
57) 1,3-Dichloropropane	8.86	76	12494	25.615	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.30	63	2672	50.240	ug/l	92
59) 2-Hexanone	9.50	43	9640	55.723	ug/l	92
60) Dibromochloromethane	8.72	129	11025	26.986	ug/l	95
61) 1,2-Dibromoethane	8.99	107	6548	20.884	ug/l	86
64) Tetrachloroethene	8.16	164	27928	82.348	ug/l	95
65) Chlorobenzene	9.80	112	50629	61.640	ug/l	93
66) 1,1,1,2-Tetrachloroethane	9.93	131	18053	54.718	ug/l	90
67) Ethyl Benzene	9.90	91	108006	75.612	ug/l	97
68) m/p-Xylenes	10.14	106	75369	141.171	ug/l	96
69) o-Xylene	10.71	106	34426	61.567	ug/l	97
70) Styrene	10.79	104	40743	48.090	ug/l	97
71) Bromoform	10.77	173	4425	26.222	ug/l	97
73) Isopropylbenzene	11.12	105	122138	97.695	ug/l	99
74) N-amyl acetate	11.41	43	490	1.645	ug/l #	6
75) 1,1,2,2-Tetrachloroethane	11.70	83	8709	40.571	ug/l	96
76) 1,2,3-Trichloropropane	11.79	75	5690	37.665	ug/l	97
77) Bromobenzene	11.50	156	17503	57.304	ug/l	91
78) n-propylbenzene	11.60	91	139811	96.308	ug/l	97
79) 2-Chlorotoluene	11.72	91	63533	78.738	ug/l	92
80) 1,3,5-Trimethylbenzene	11.82	105	81527	79.280	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.87	75	1579m	25.651	ug/l	
82) 4-Chlorotoluene	11.90	91	57870	69.948	ug/l	96
83) tert-Butylbenzene	12.13	119	95353	88.578	ug/l	95
84) 1,2,4-Trimethylbenzene	12.21	105	71914	71.336	ug/l	100
85) sec-Butylbenzene	12.31	105	120441	86.486	ug/l	97
86) p-Isopropyltoluene	12.46	119	100550	83.339	ug/l	97
87) 1,3-Dichlorobenzene	12.47	146	36249	63.878	ug/l	91
88) 1,4-Dichlorobenzene	12.56	146	33872	61.169	ug/l	99
89) n-Butylbenzene	12.85	91	86164	74.854	ug/l	96
90) Hexachloroethane	12.92	117	22185	77.222	ug/l	91
91) 1,2-Dichlorobenzene	12.94	146	29863	56.043	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.65	75	922	28.347	ug/l	77

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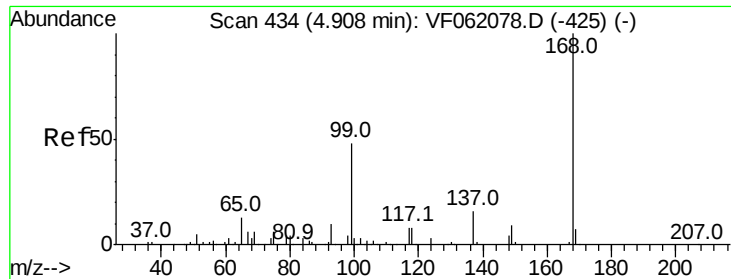
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	8794	23.680	ug/l	97
94) Hexachlorobutadiene	14.19	225	9970	40.376	ug/l	96
95) Naphthalene	14.46	128	6376	9.797	ug/l #	96
96) 1,2,3-Trichlorobenzene	14.60	180	5741	16.515	ug/l	95

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



#1

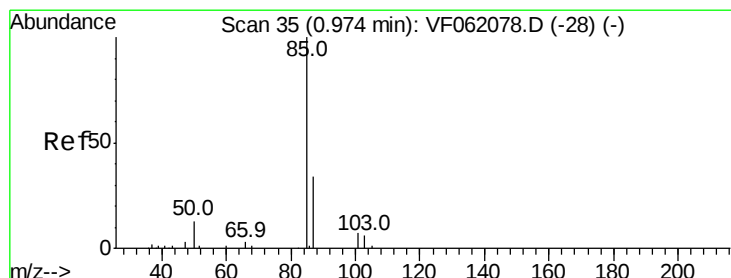
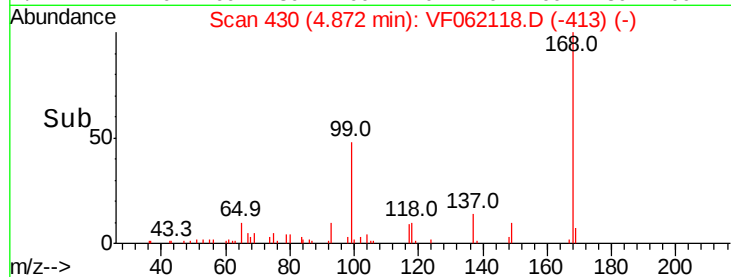
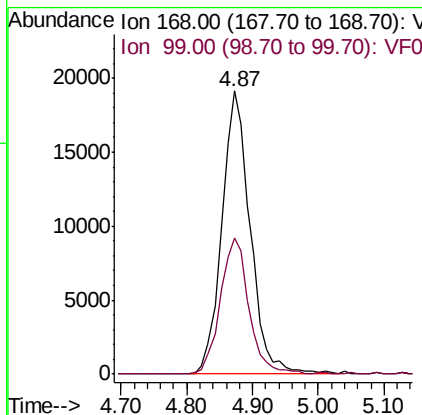
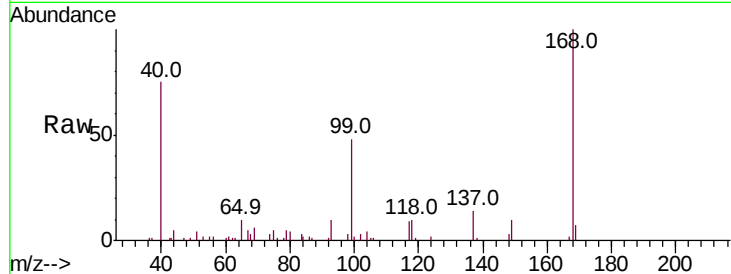
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. -0.04 min
 Lab File: VF062118.D
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Tot Ion	Ratio	Lower	Upper
168	100		
99	48.1	38.2	57.4

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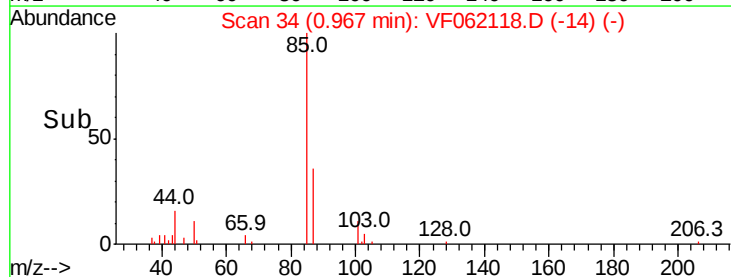
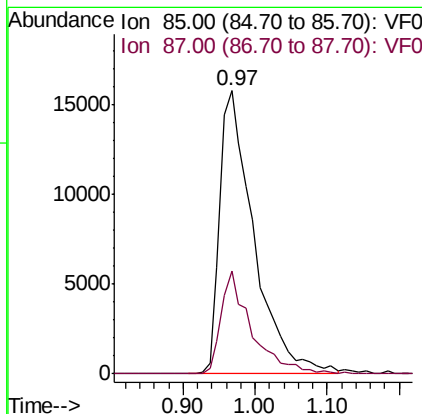
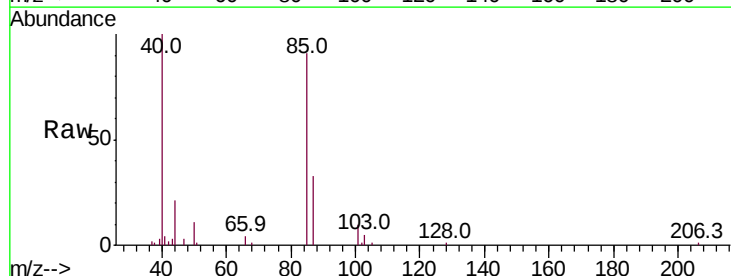
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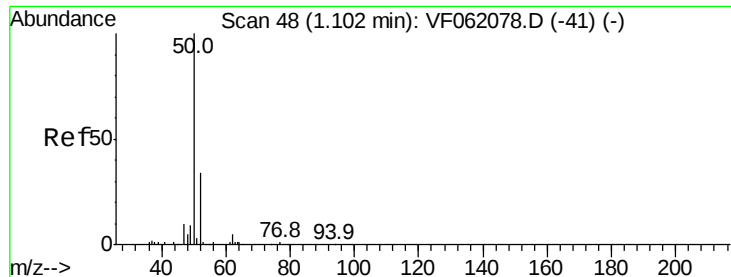


#2

Dichlorodifluoromethane
 Concen: 70.313 ug/l
 RT: 0.97 min Scan# 34
 Delta R.T. -0.01 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Lower	Upper
85	100		
87	36.3	17.0	51.0





#3

Chloromethane

Concen: 49.388 ug/l

RT: 1.09 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 50 Resp: 38000

Ion Ratio Lower Upper

50 100

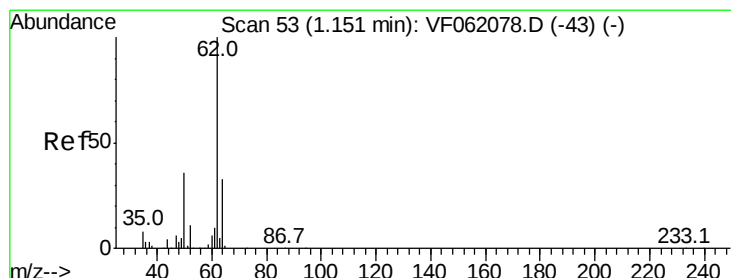
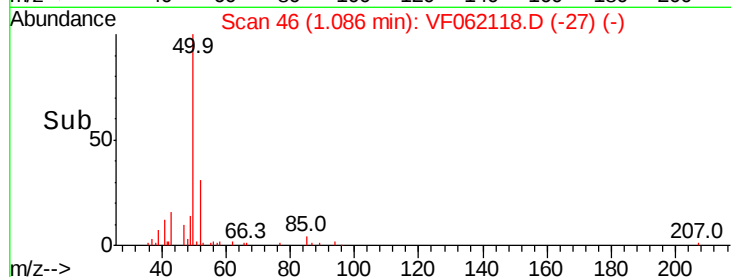
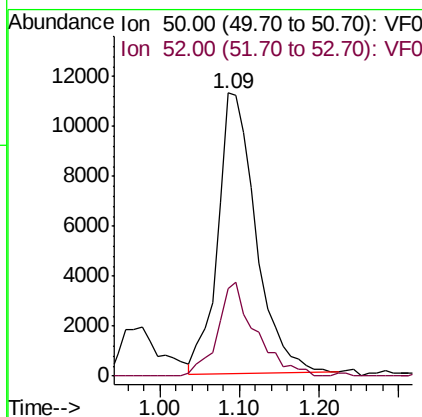
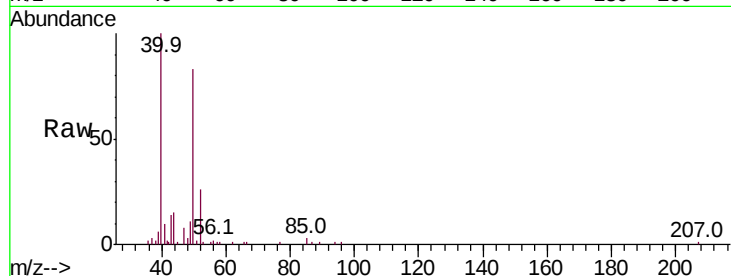
52 30.8 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 64.260 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062118.D

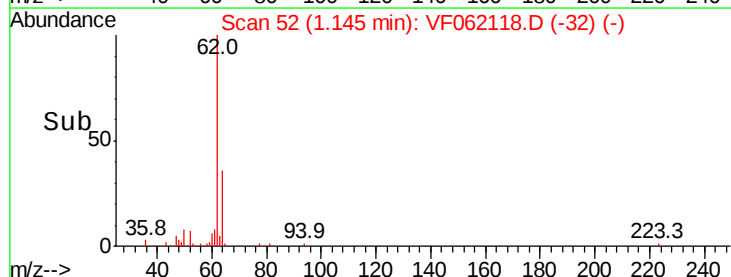
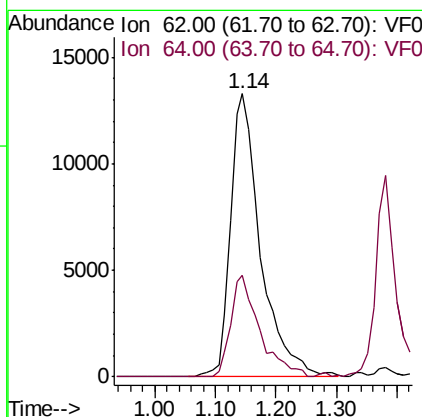
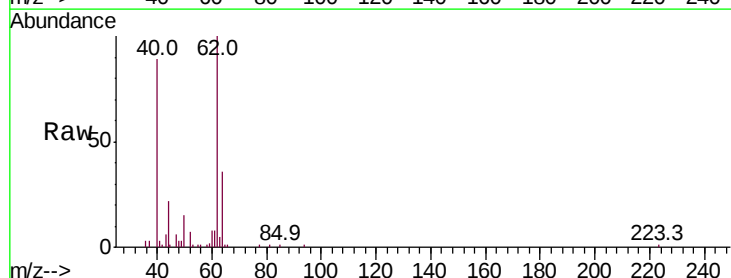
Acq: 23 Mar 2019 15:39

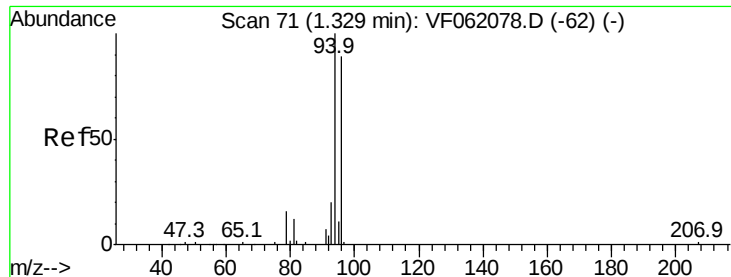
Tgt Ion: 62 Resp: 45733

Ion Ratio Lower Upper

62 100

64 35.8 26.2 39.2





#5

Bromomethane

Concen: 58.633 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

Lab File: VF062118.D

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Tot Ion: 94 Resp: 29996

Ion Ratio Lower Upper

94 100

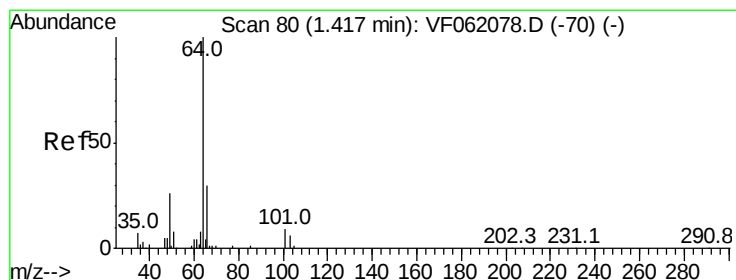
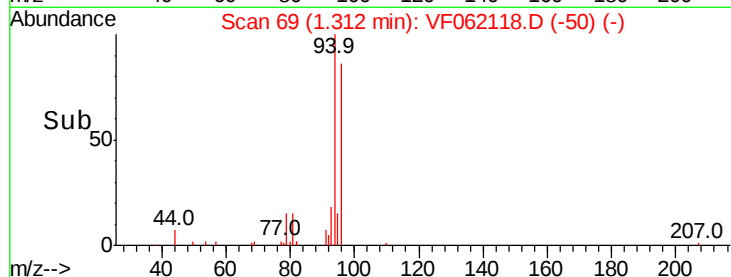
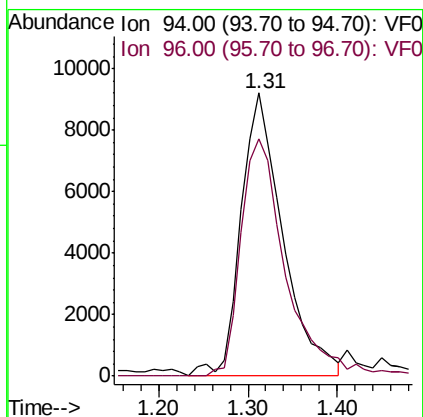
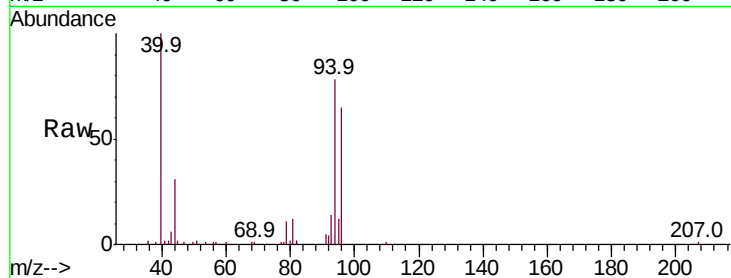
96 83.7 70.9 106.3

Manual Integrations

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#6

Chloroethane

Concen: 60.112 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.04 min

Lab File: VF062118.D

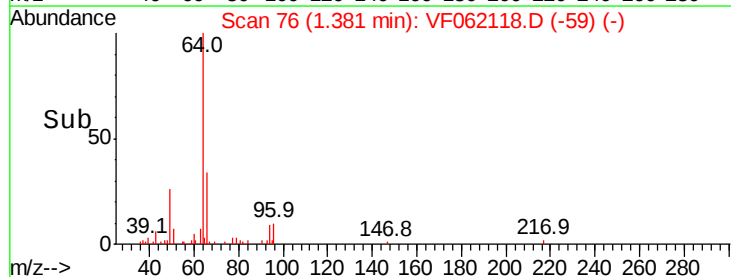
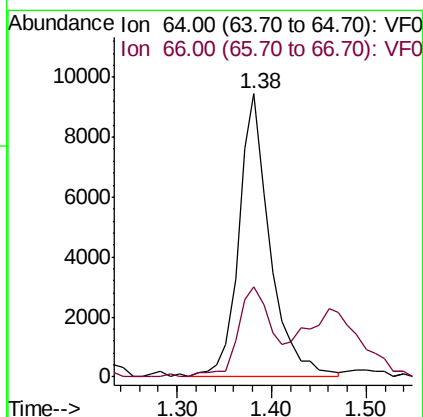
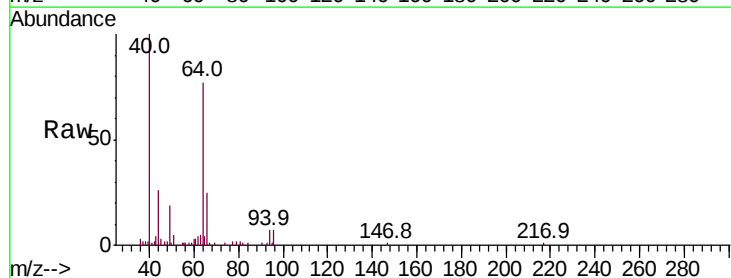
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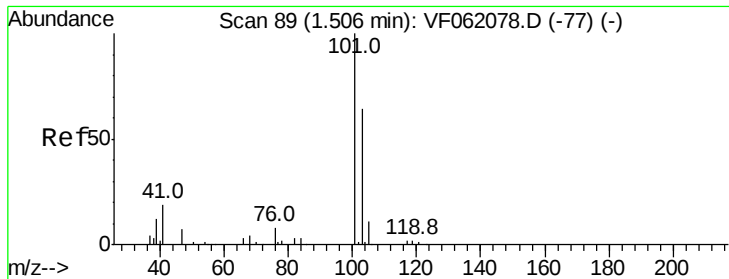
Tgt Ion: 64 Resp: 21536

Ion Ratio Lower Upper

64 100

66 31.9 24.5 36.7





#7

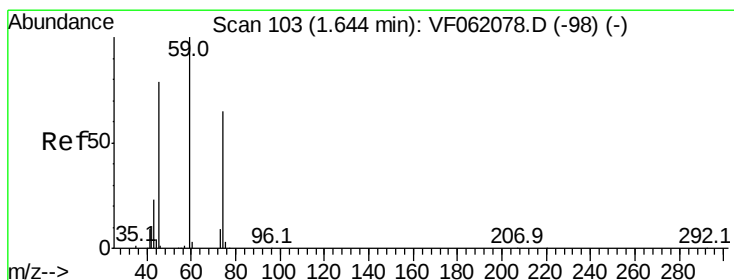
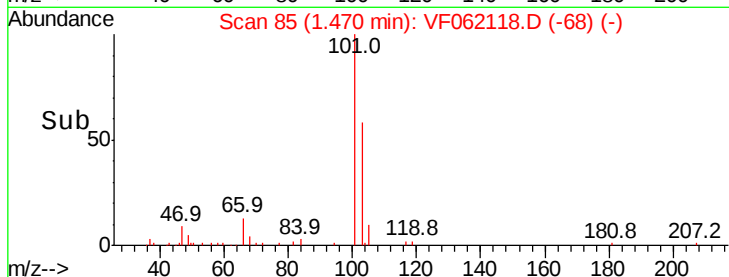
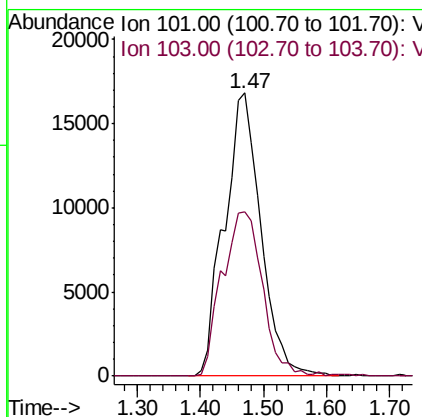
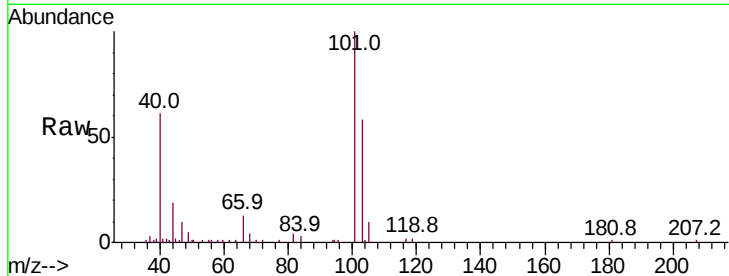
Trichlorofluoromethane
 Concen: 78.712 ug/l
 RT: 1.47 min Scan# 85
 Delta R.T. -0.04 min
 Lab File: VF062118.D
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Tot Ion:101 Resp: 67655
 Ion Ratio Lower Upper
 101 100
 103 58.1 51.5 77.3

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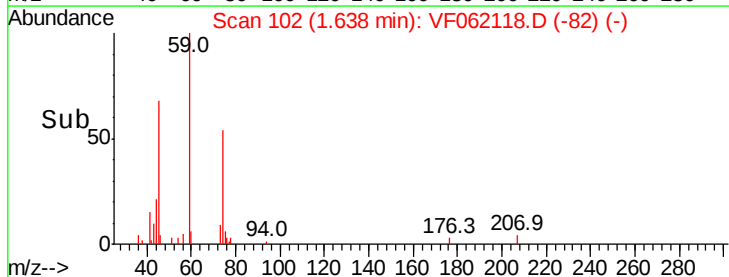
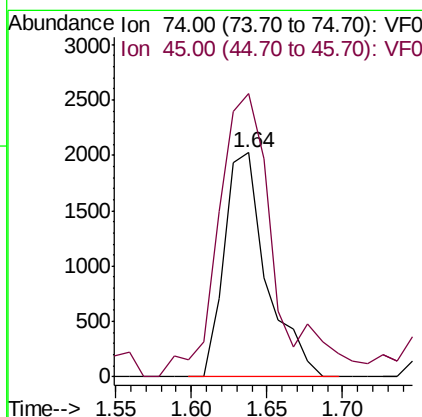
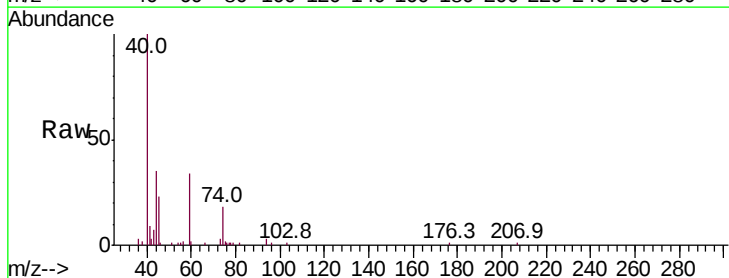
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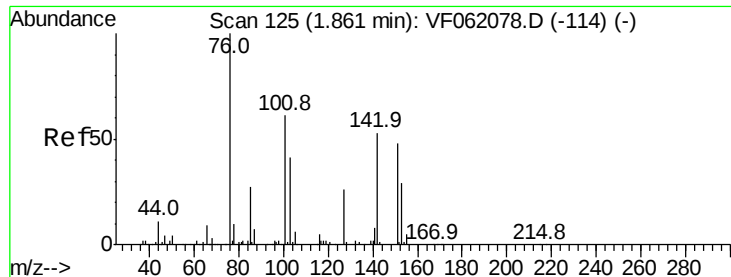


#8

Diethyl Ether
 Concen: 20.026 ug/l
 RT: 1.64 min Scan# 102
 Delta R.T. -0.01 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion: 74 Resp: 3932
 Ion Ratio Lower Upper
 74 100
 45 126.2 61.4 184.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 72.338 ug/l

RT: 1.83 min Scan# 121

Delta R.T. -0.04 min

Lab File: VF062118.D

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MSVOA_F

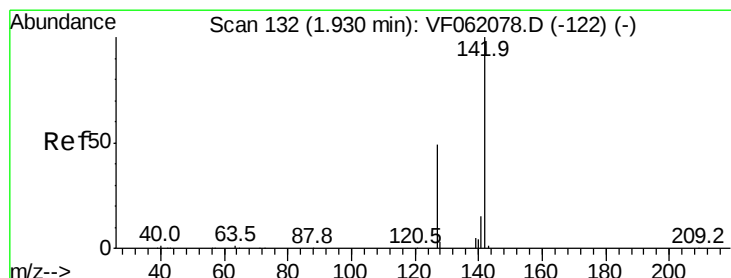
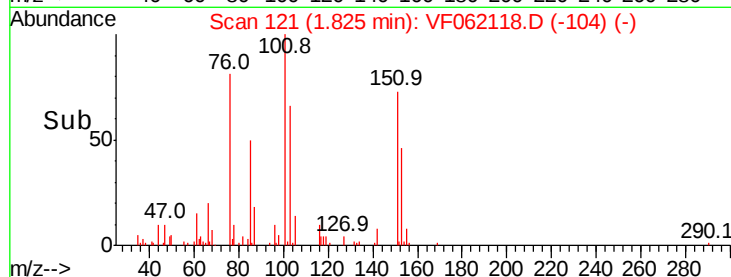
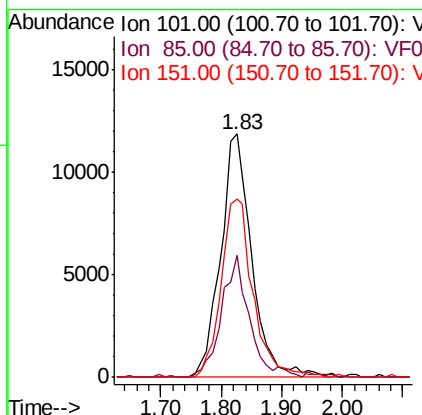
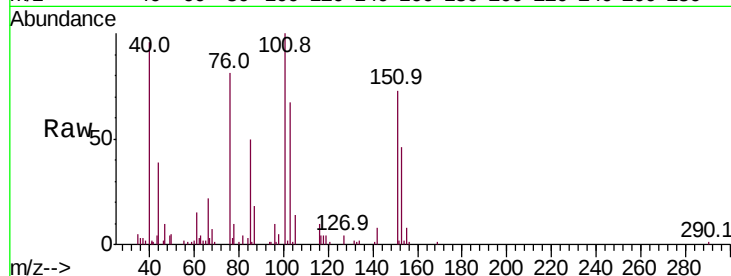
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	101	Resp:	42418
Ion Ratio	Lower	Upper	
101	100		
85	50.2	34.6	52.0
151	73.5	61.7	92.5

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#10

Methyl Iodide

Concen: 45.713 ug/l m

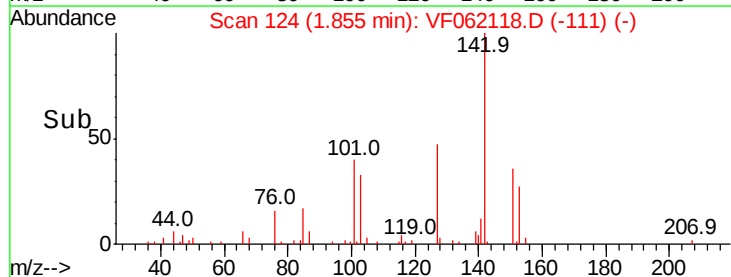
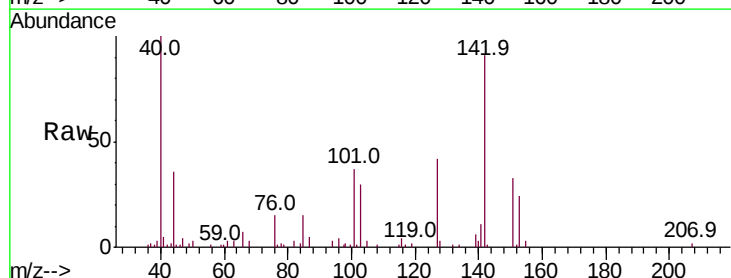
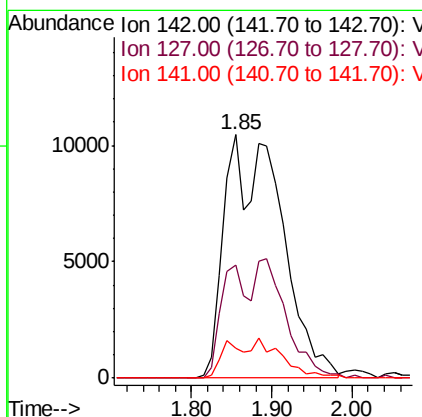
RT: 1.85 min Scan# 124

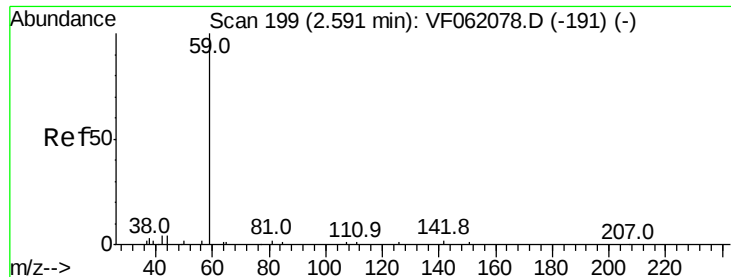
Delta R.T. -0.08 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion:	142	Resp:	50939
Ion Ratio	Lower	Upper	
142	100		
127	46.6	39.1	58.7
141	12.4	12.2	18.4





#11

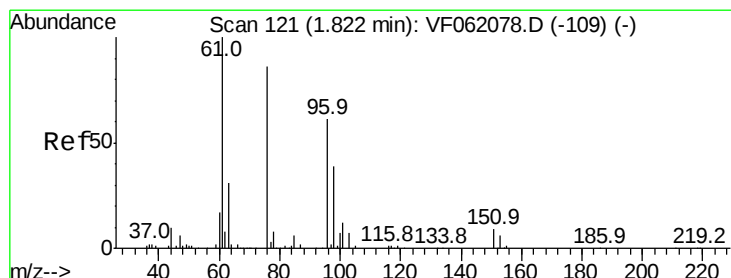
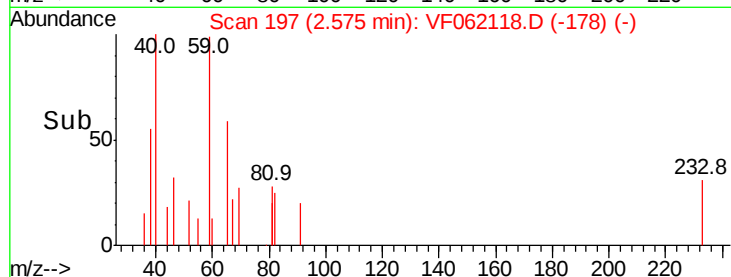
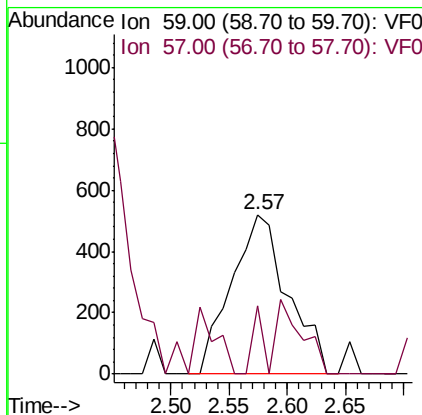
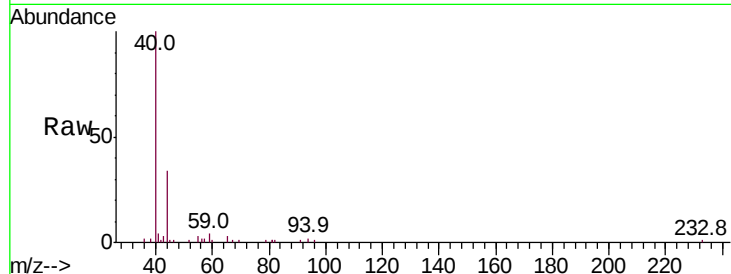
Tert butyl alcohol
Concen: 74.156 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 59 Resp: 1742
Ion Ratio Lower Upper
59 100
57 42.7 11.0 16.4#

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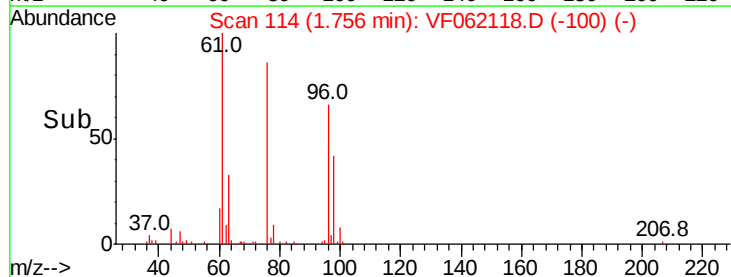
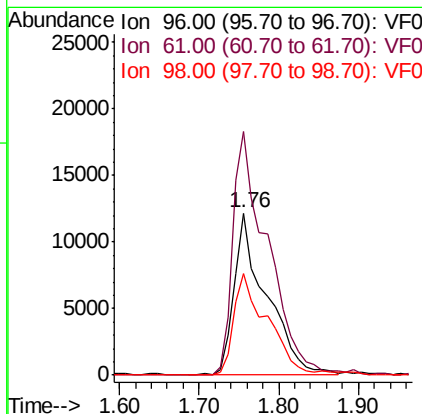
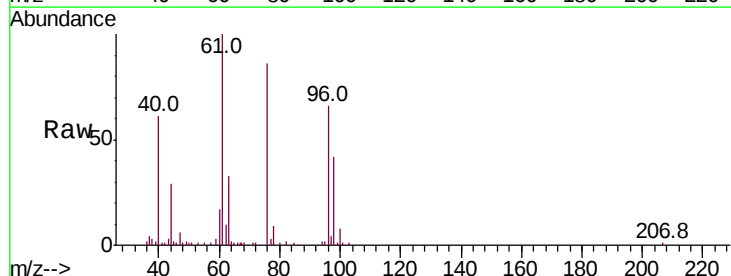
MMDadoda
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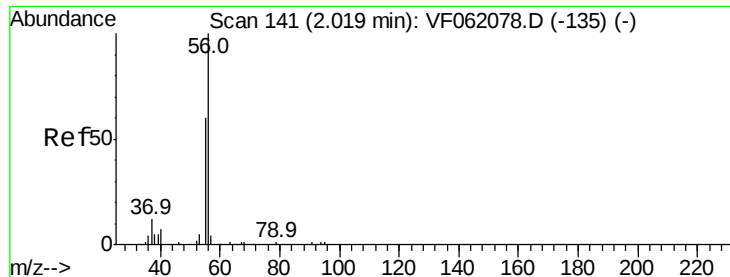


#12

1,1-Dichloroethene
Concen: 61.860 ug/l
RT: 1.76 min Scan# 114
Delta R.T. -0.07 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion: 96 Resp: 34226
Ion Ratio Lower Upper
96 100
61 150.4 131.0 196.6
98 62.7 51.5 77.3





#13

Acrolein

Concen: 100.007 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 56 Resp: 2825

Ion Ratio Lower Upper

56 100

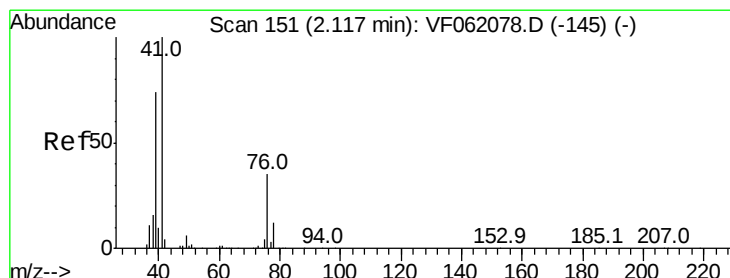
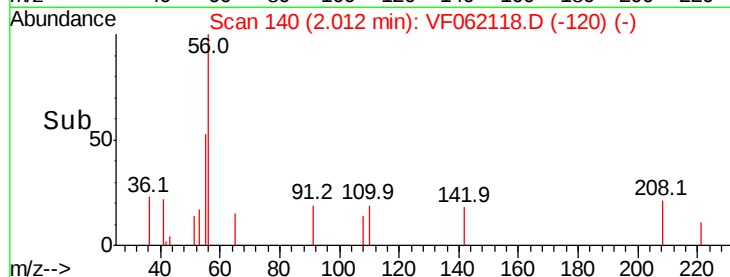
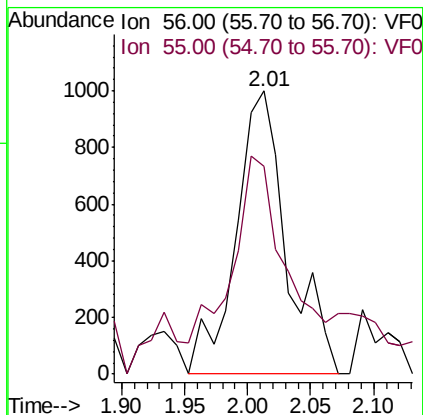
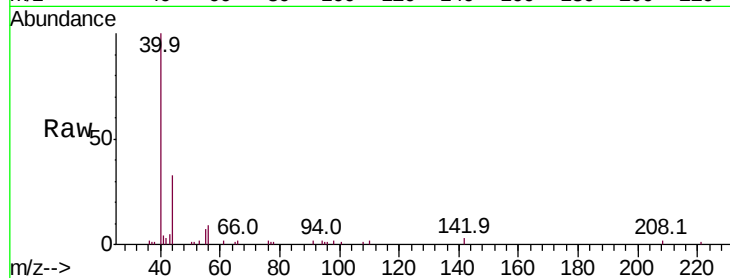
55 73.6 49.0 73.4#

Manual Integrations

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#14

Allyl chloride

Concen: 60.969 ug/l

RT: 2.10 min Scan# 149

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

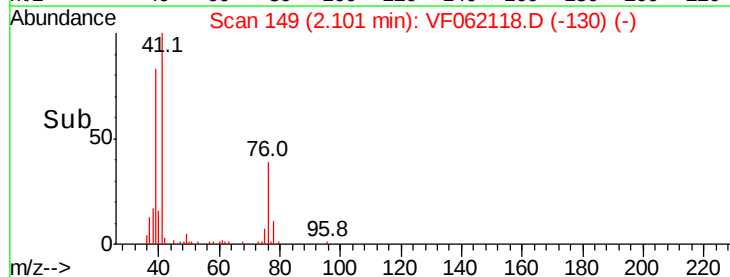
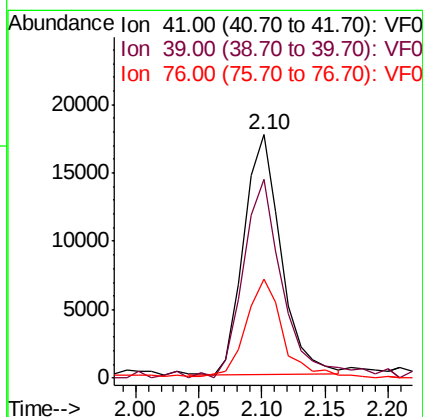
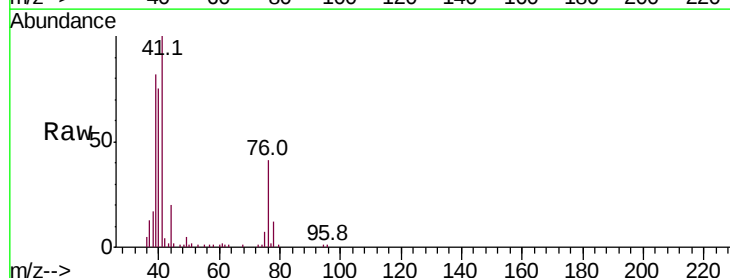
Tgt Ion: 41 Resp: 36015

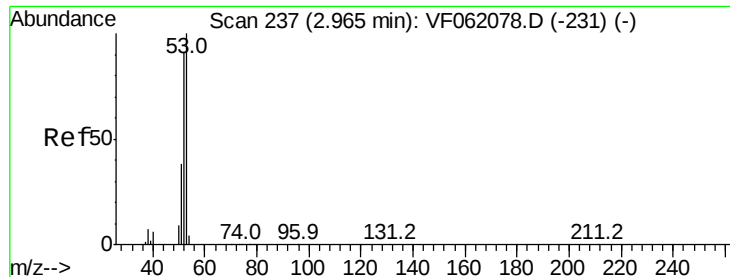
Ion Ratio Lower Upper

41 100

39 81.9 59.8 89.8

76 40.9 30.0 45.0





#15

Acrylonitrile

Concen: 76.714 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

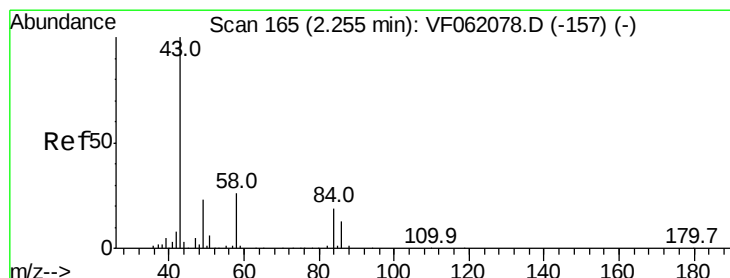
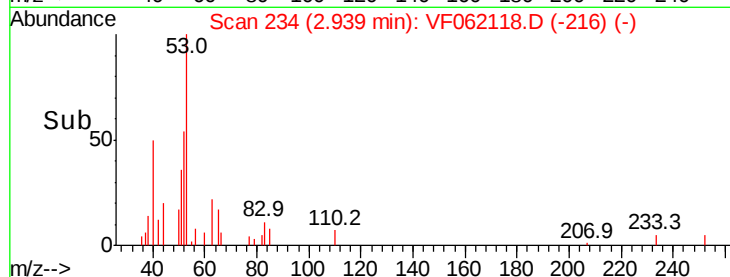
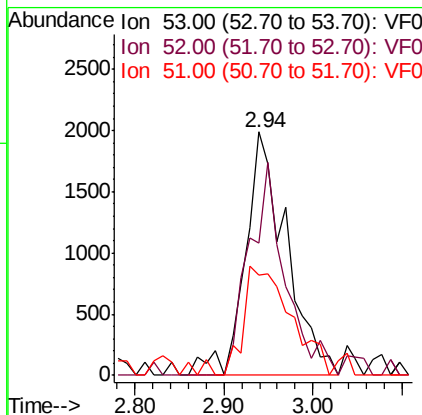
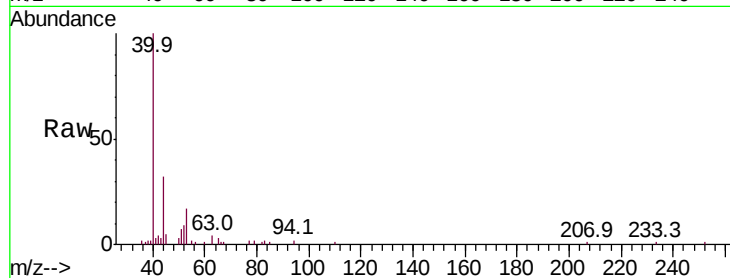
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	53	Resp:	6337
Ion	Ratio	Lower	Upper
53	100		
52	54.1	72.3	108.5#
51	41.4	30.4	45.6

Manual Integrations
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#16

Acetone

Concen: 142.328 ug/l

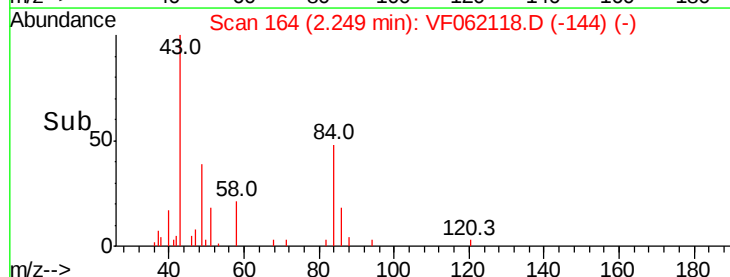
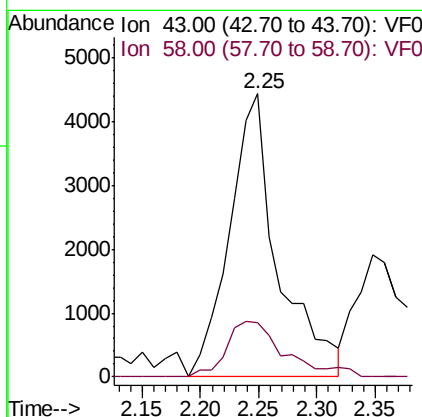
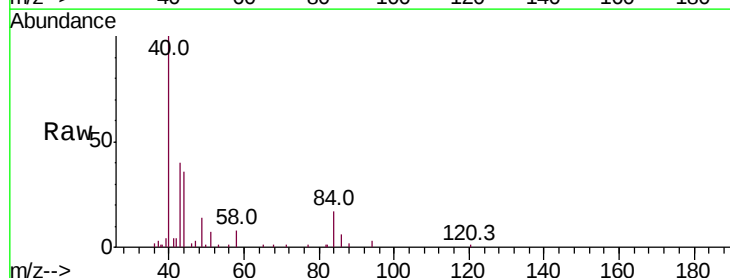
RT: 2.25 min Scan# 164

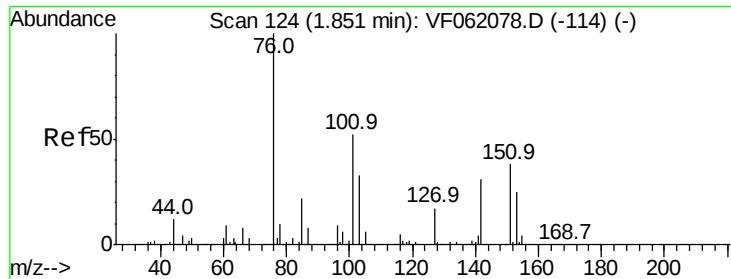
Delta R.T. -0.01 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion:	43	Resp:	12789
Ion	Ratio	Lower	Upper
43	100		
58	19.0	20.8	31.2#





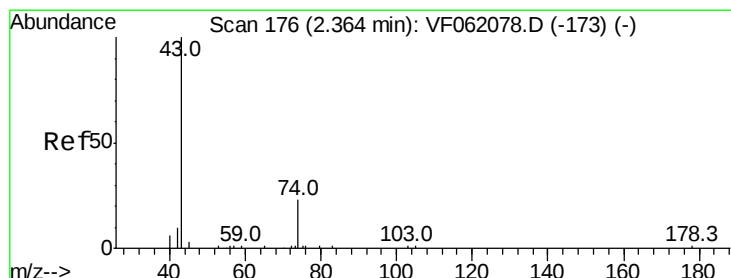
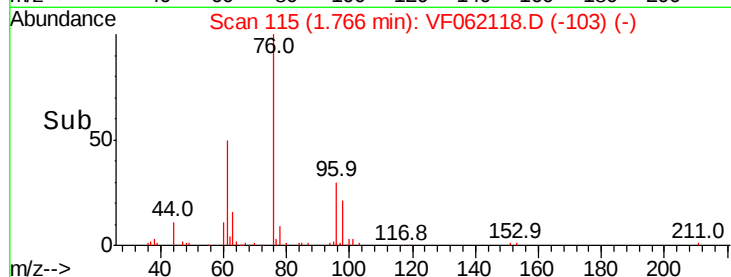
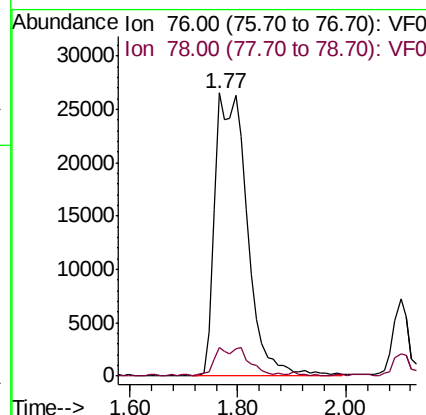
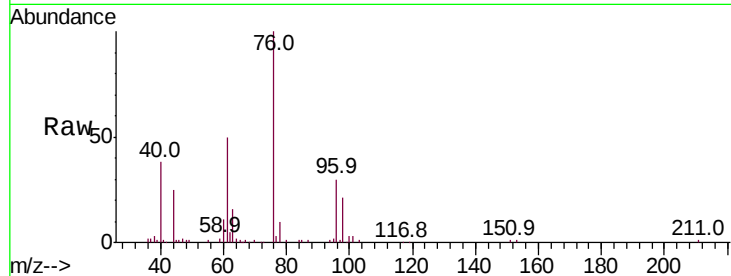
#17
Carbon Disulfide
Concen: 65.556 ug/l
RT: 1.77 min Scan# 115
Delta R.T. -0.09 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 76 Resp: 110604
Ion Ratio Lower Upper
76 100
78 10.1 7.9 11.9

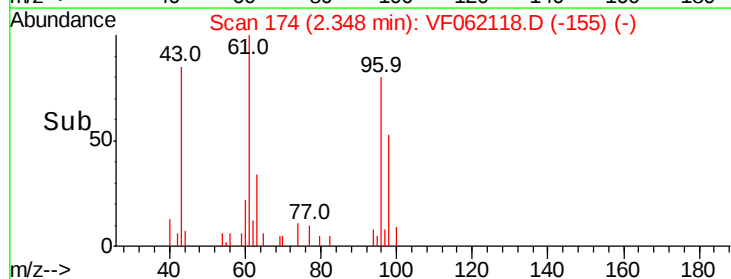
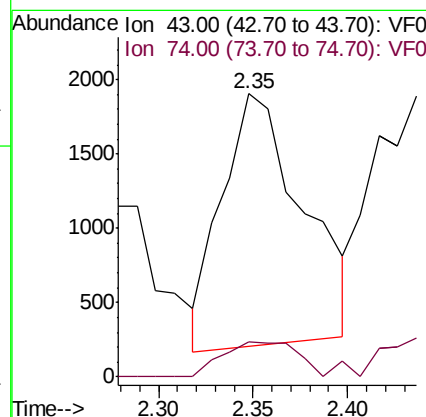
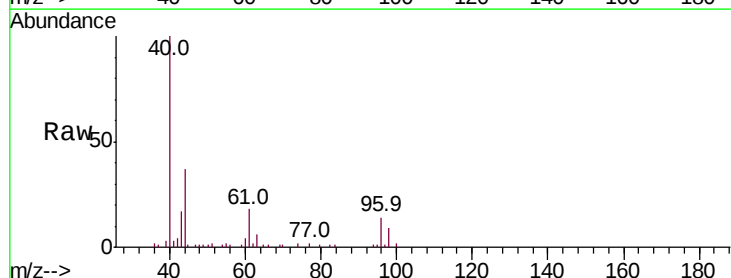
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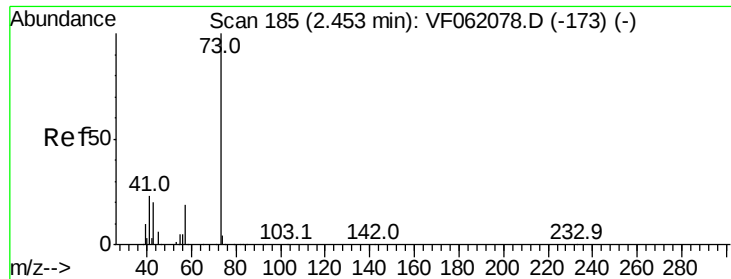
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#18
Methyl Acetate
Concen: 23.602 ug/l
RT: 2.35 min Scan# 174
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion: 43 Resp: 5059
Ion Ratio Lower Upper
43 100
74 12.3 16.3 24.5#





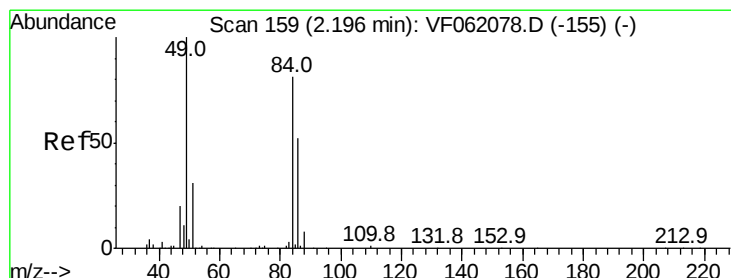
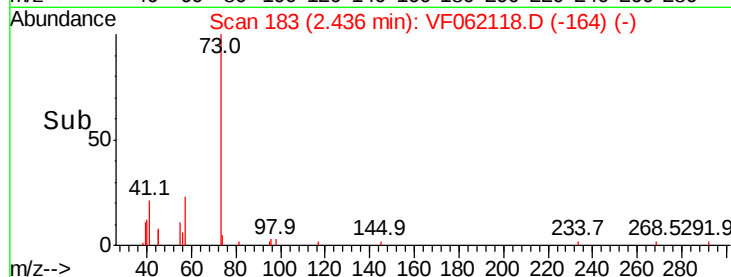
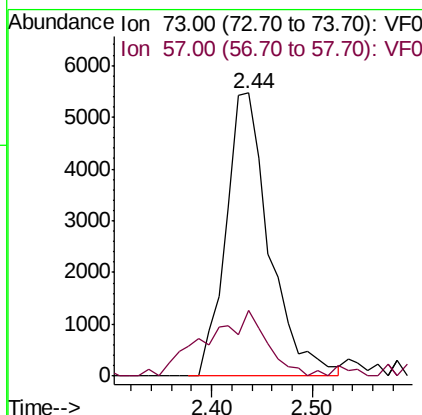
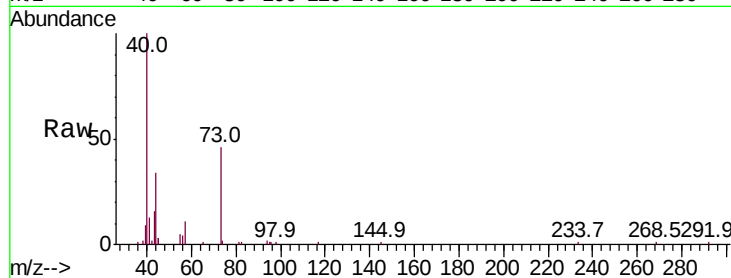
#19
Methyl tert-butyl Ether
Concen: 18.694 ug/l
RT: 2.44 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 73 Resp: 16347
Ion Ratio Lower Upper
73 100
57 23.1 15.1 22.7#

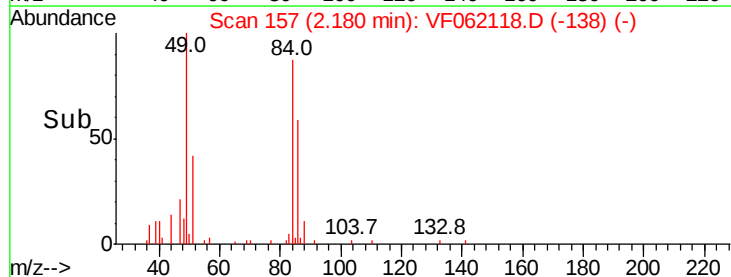
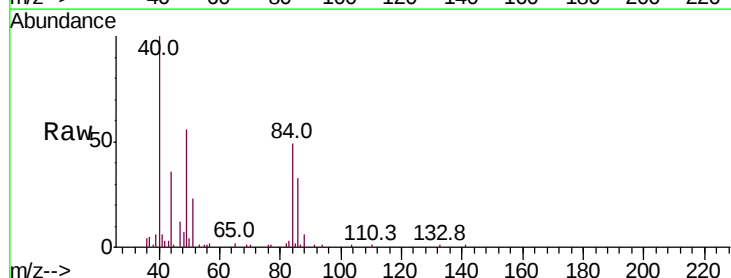
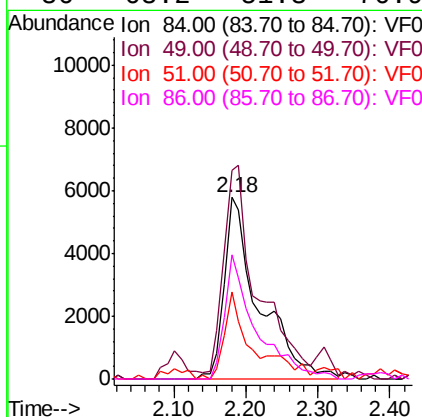
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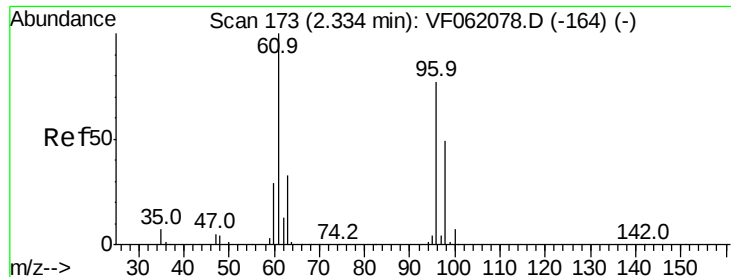
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#20
Methylene Chloride
Concen: 34.961 ug/l
RT: 2.18 min Scan# 157
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion: 84 Resp: 19410
Ion Ratio Lower Upper
84 100
49 114.7 100.4 150.6
51 47.8 31.0 46.6#
86 68.2 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 57.286 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

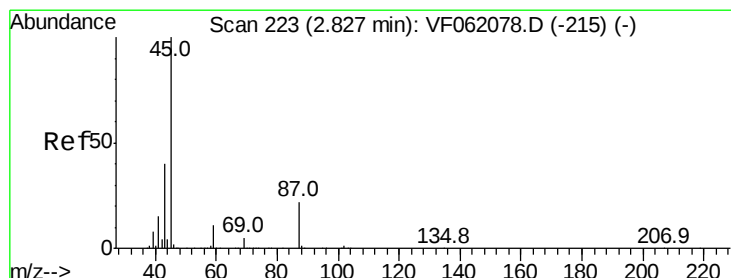
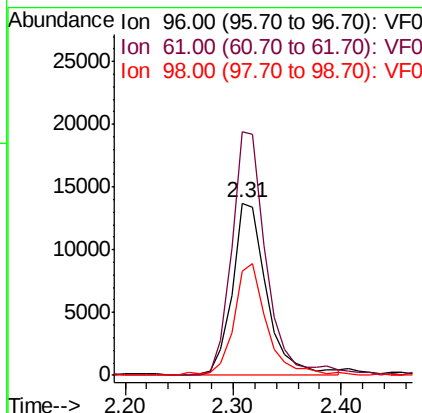
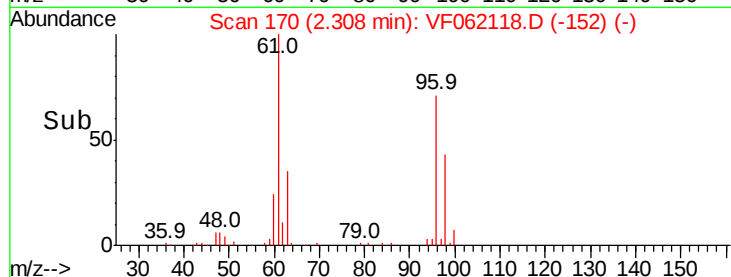
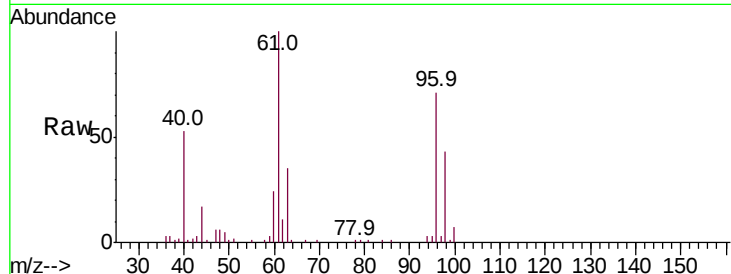
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	96	Resp:	30496
Ion	Ratio	Lower	Upper
96	100		
61	141.3	104.5	156.7
98	60.4	51.2	76.8

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#22

Diisopropyl ether

Concen: 26.189 ug/l

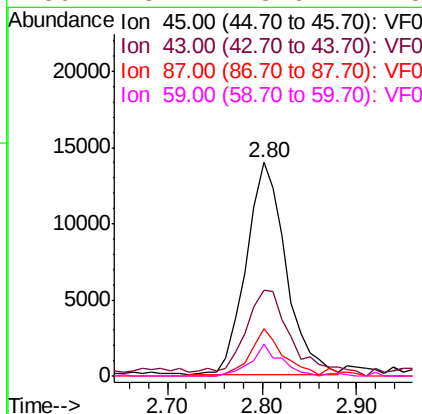
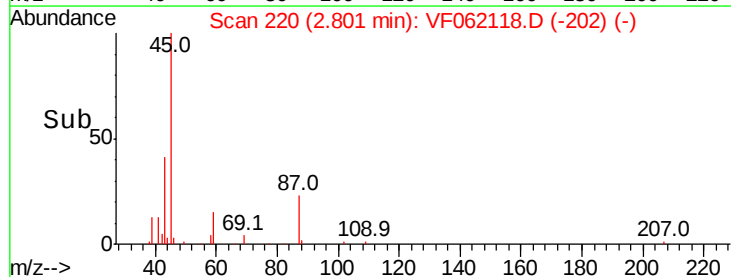
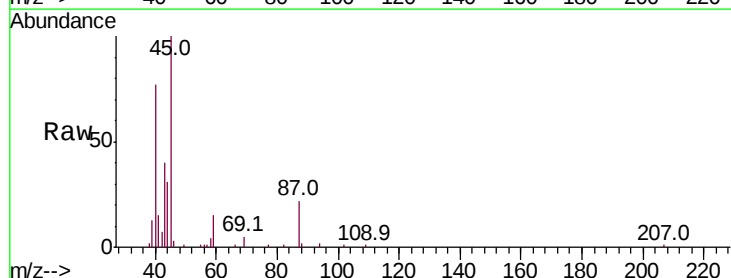
RT: 2.80 min Scan# 220

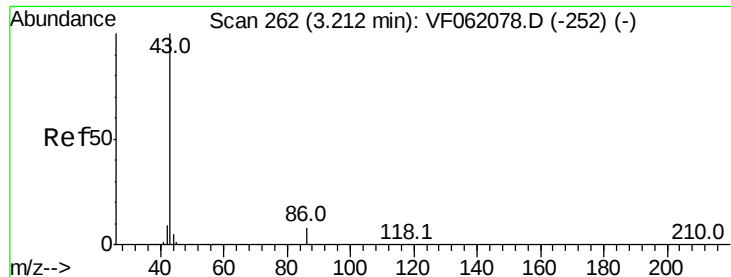
Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion:	45	Resp:	40560
Ion	Ratio	Lower	Upper
45	100		
43	40.2	32.5	48.7
87	22.2	17.4	26.2
59	15.2	8.6	12.8#





#23

Vinyl Acetate

Concen: 60.897 ug/l

RT: 3.20 min Scan# 260

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 38615

Ion Ratio Lower Upper

43 100

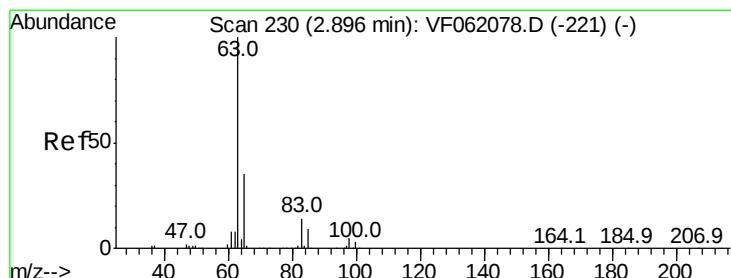
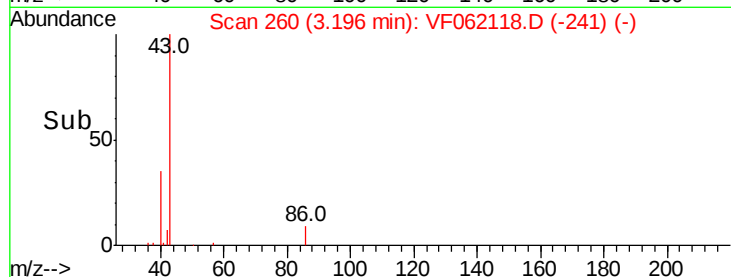
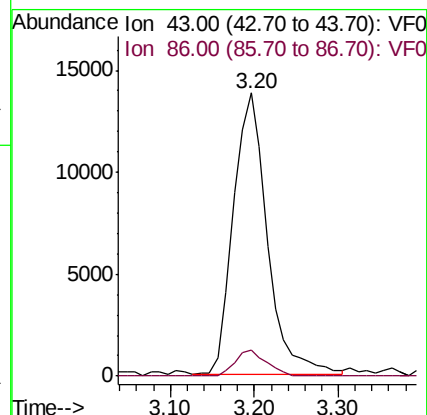
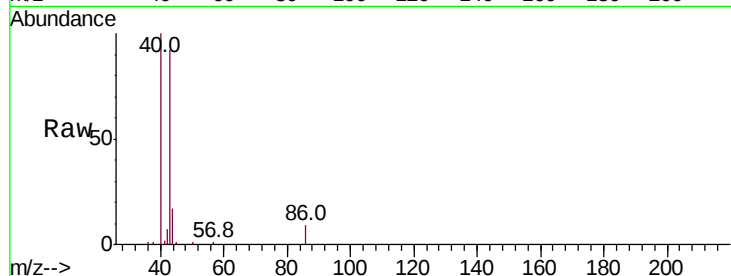
86 9.4 6.8 10.2

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 46.720 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

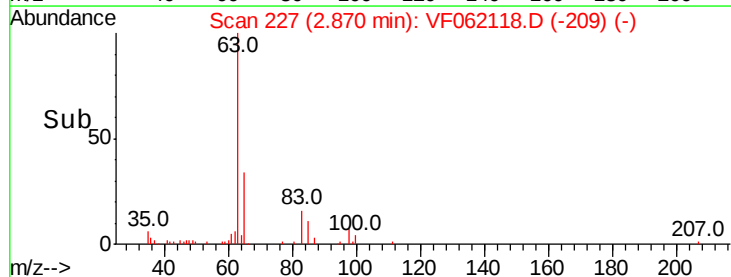
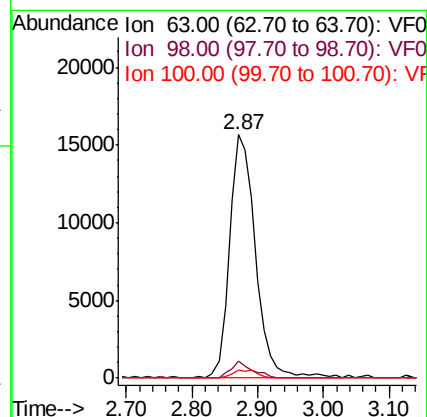
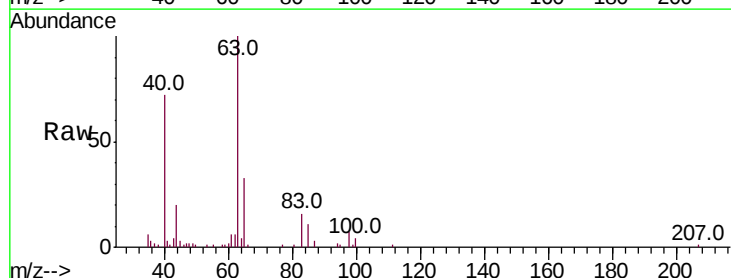
Tgt Ion: 63 Resp: 43392

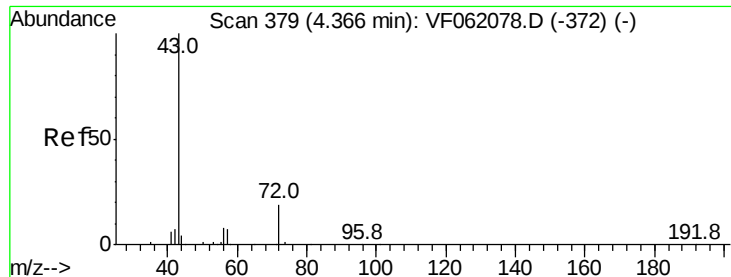
Ion Ratio Lower Upper

63 100

98 7.2 2.7 8.1

100 3.5 1.7 5.1





#25

2-Butanone

Concen: 136.114 ug/l

RT: 4.38 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 25533

Ion Ratio Lower Upper

43 100

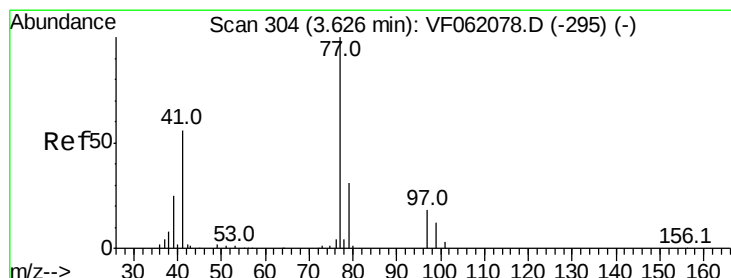
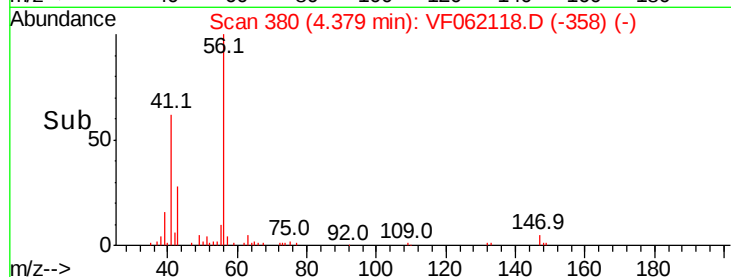
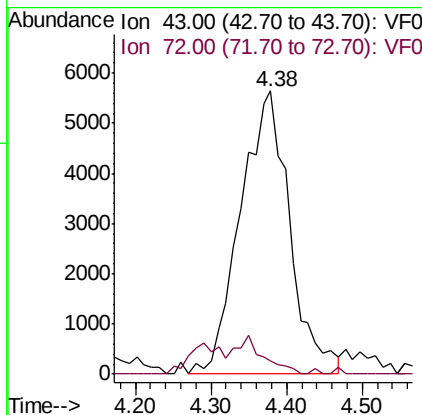
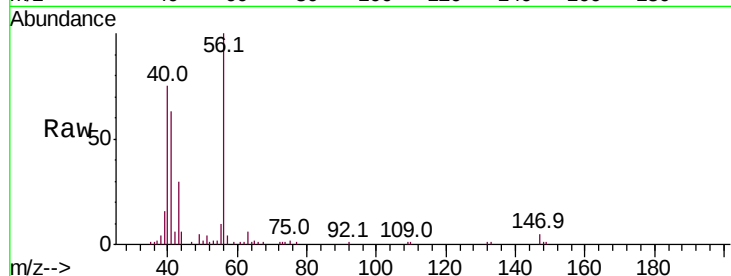
72 4.7 16.7 25.1#

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 87.455 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.03 min

Lab File: VF062118.D

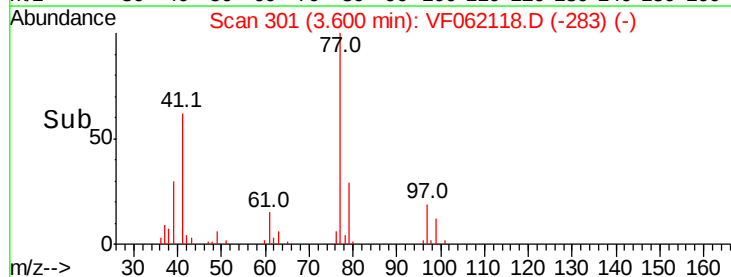
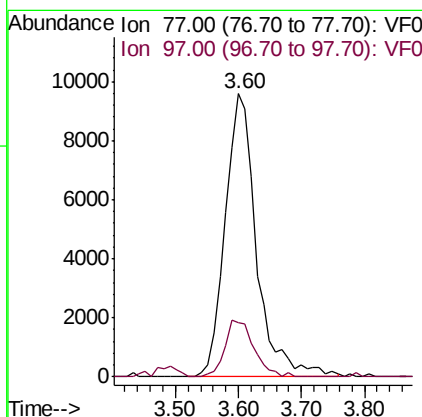
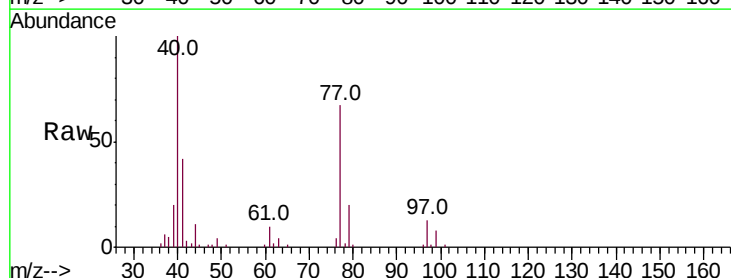
Acq: 23 Mar 2019 15:39

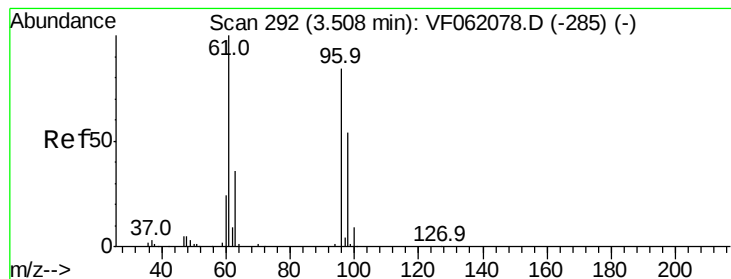
Tgt Ion: 77 Resp: 32933

Ion Ratio Lower Upper

77 100

97 19.2 10.3 30.9





#27

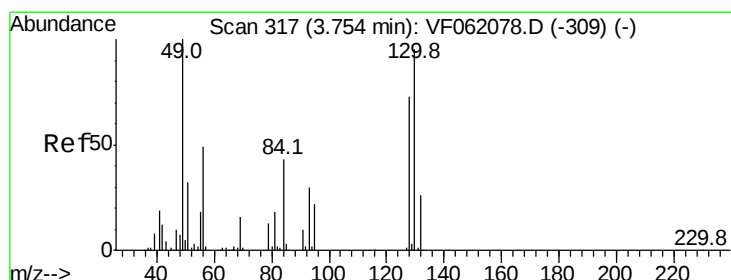
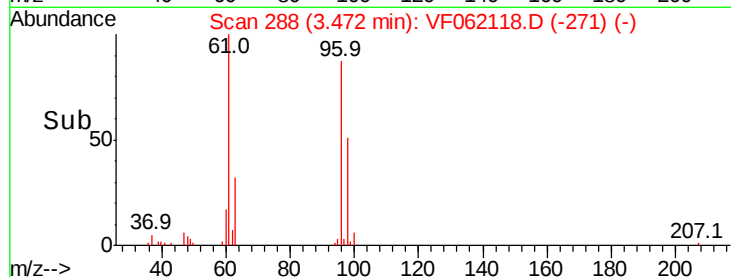
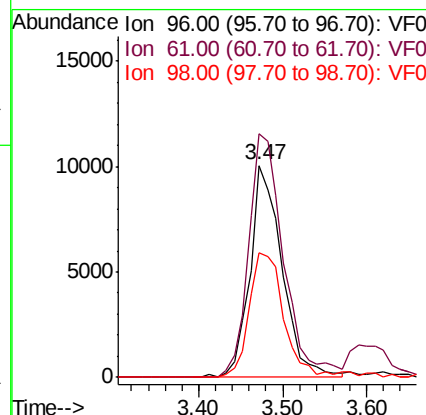
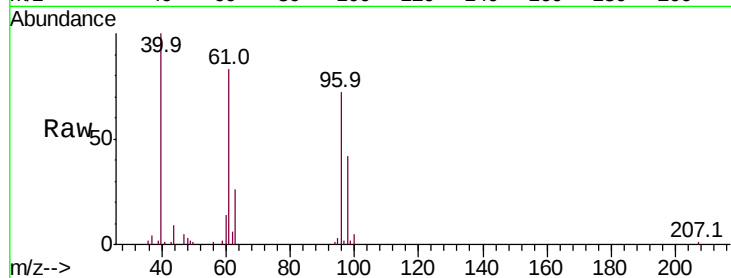
cis-1,2-Dichloroethene
Concen: 38.098 ug/l
RT: 3.47 min Scan# 288
Delta R.T. -0.04 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100	26875		
61	115.1	0.0	239.0	
98	58.9	0.0	128.2	

Manual Integrations
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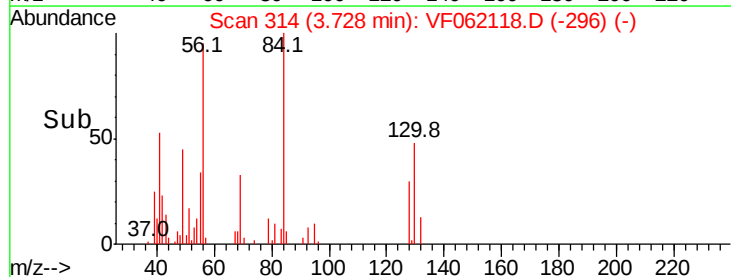
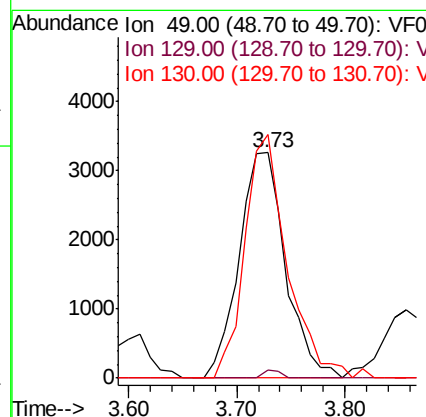
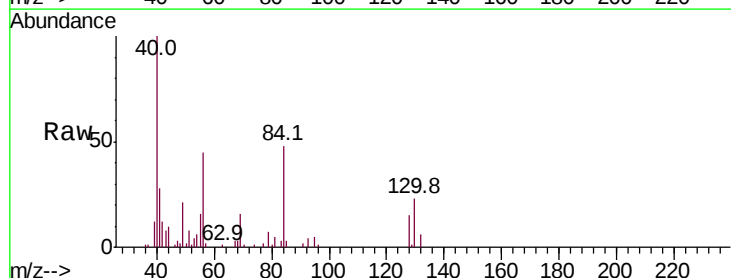
MMDadoda
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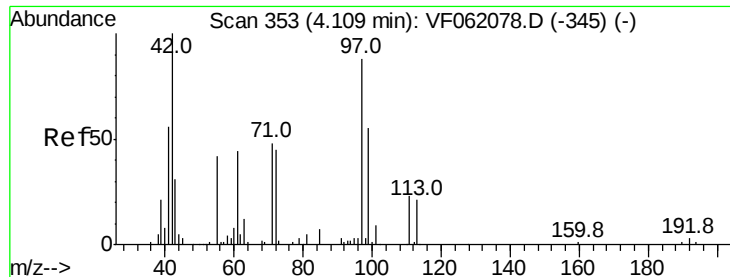


#28

Bromochloromethane
Concen: 25.707 ug/l
RT: 3.73 min Scan# 314
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	9755		
129	3.6	0.0	5.6	
130	107.9	75.5	113.3	





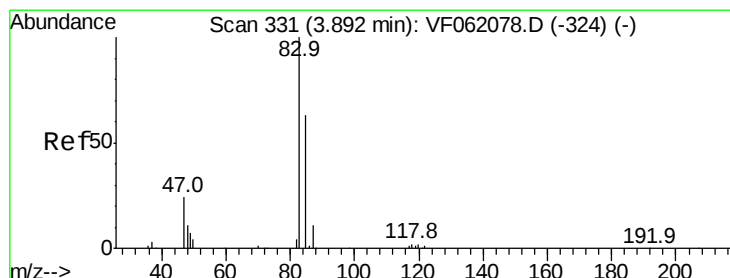
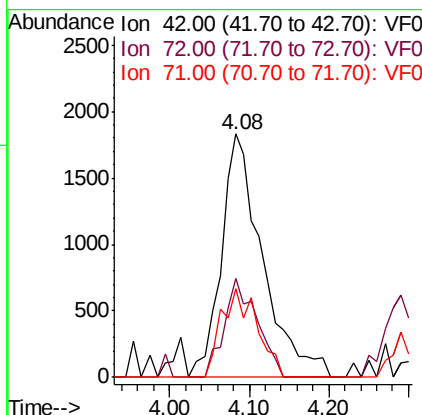
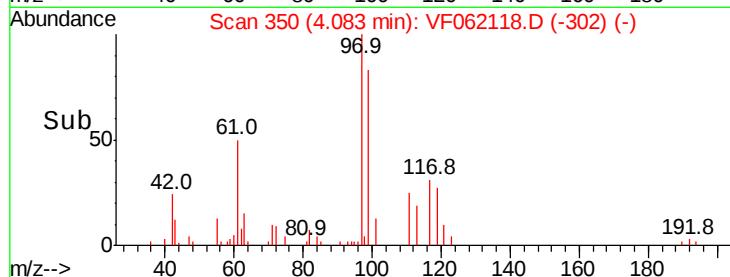
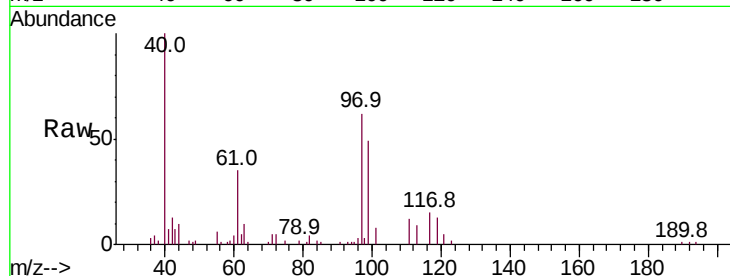
#29
Tetrahydrofuran
Concen: 80.886 ug/l
RT: 4.08 min Scan# 350
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
42	100		
72	32.4	33.3	49.9#
71	32.0	35.0	52.4#

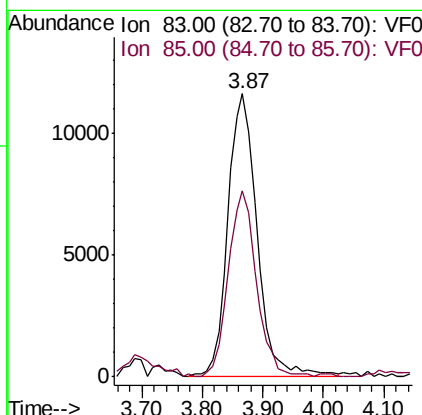
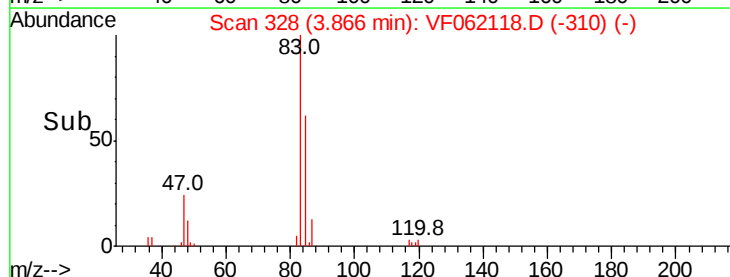
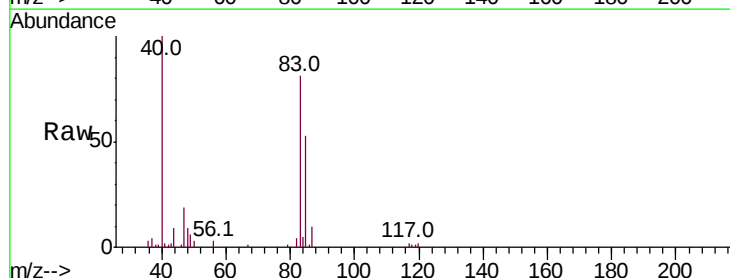
Manual Integrations
APPROVED

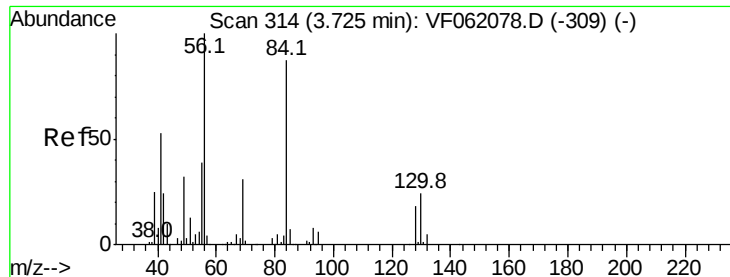
MMDadoda
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#30
Chloroform
Concen: 39.710 ug/l
RT: 3.87 min Scan# 328
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	51.5	77.3





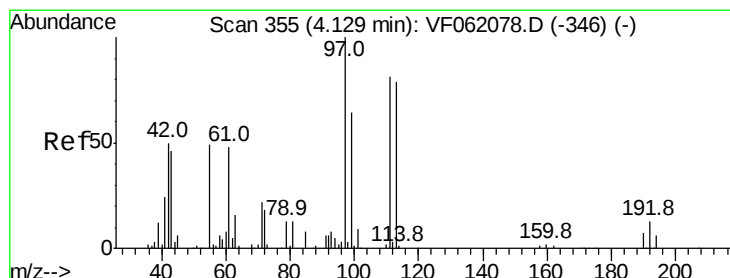
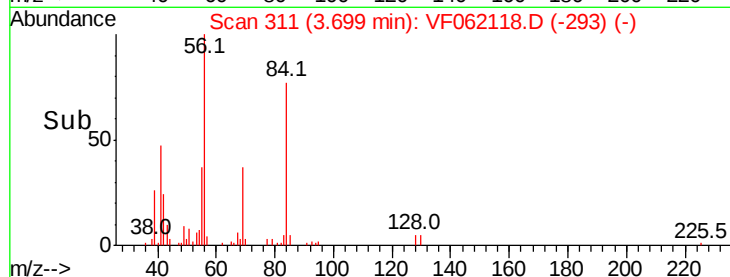
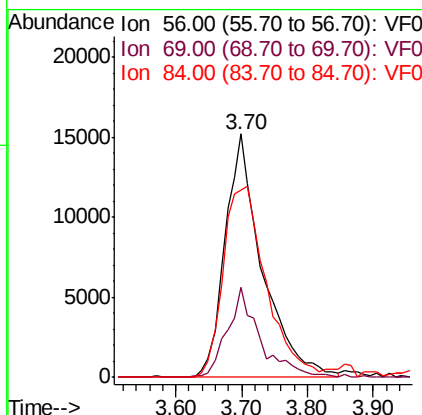
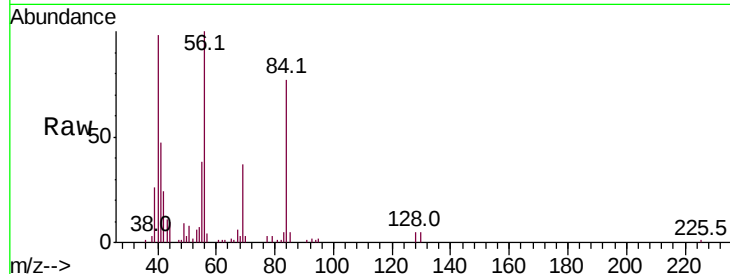
#31
Cvclohexane
Concen: 62.035 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
56	100		
69	36.8	25.9	38.9
84	76.9	71.1	106.7

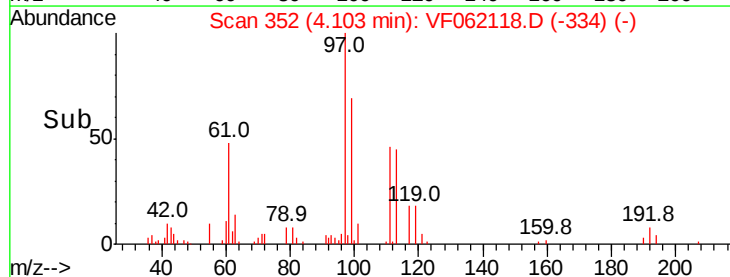
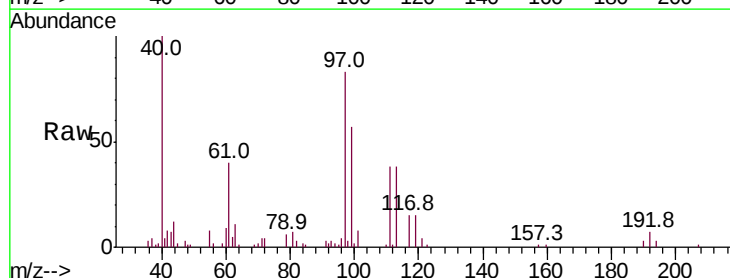
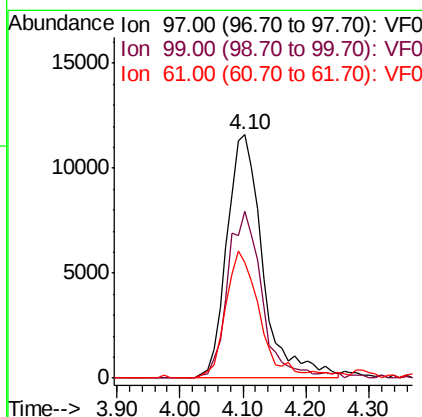
Manual Integrations
APPROVED

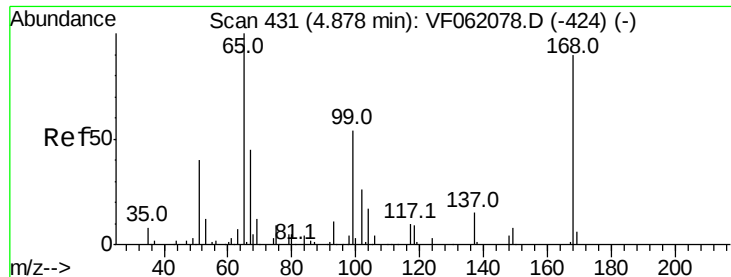
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 76.683 ug/l
RT: 4.10 min Scan# 352
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	68.7	51.3	76.9
61	47.6	39.0	58.6





#33

1,2-Dichloroethane-d4

Concen: 25.367 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 65 Resp: 10830

Ion Ratio Lower Upper

65 100

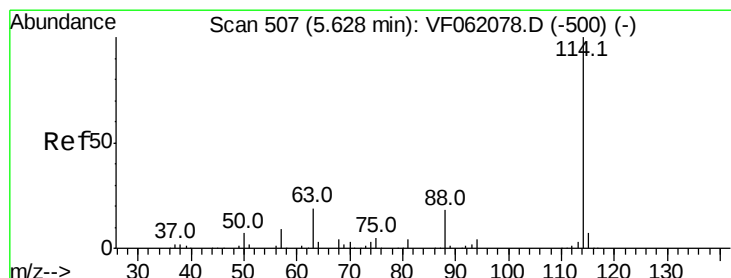
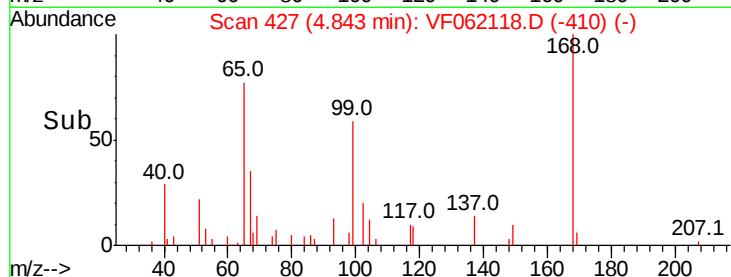
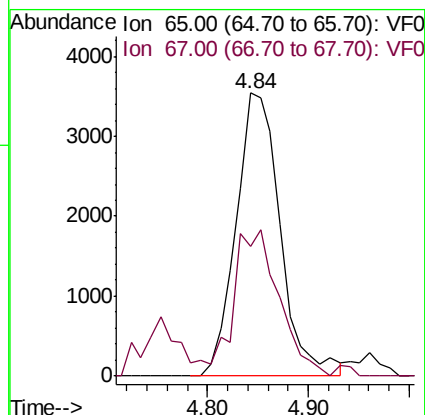
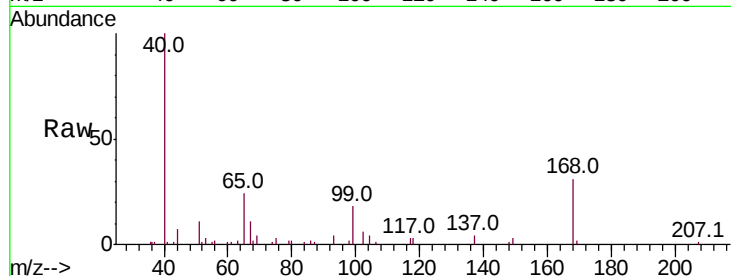
67 45.9 0.0 106.2

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

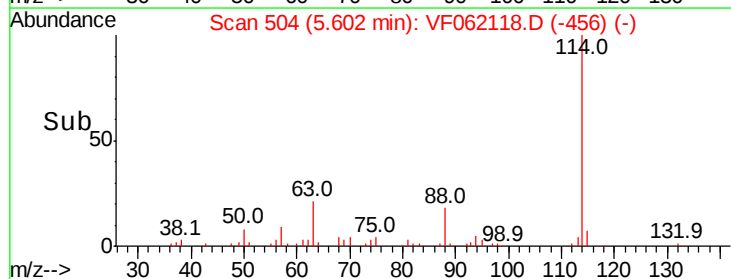
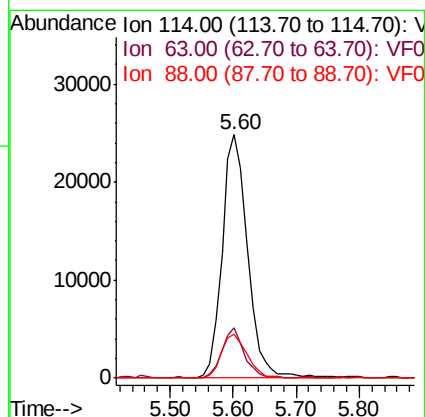
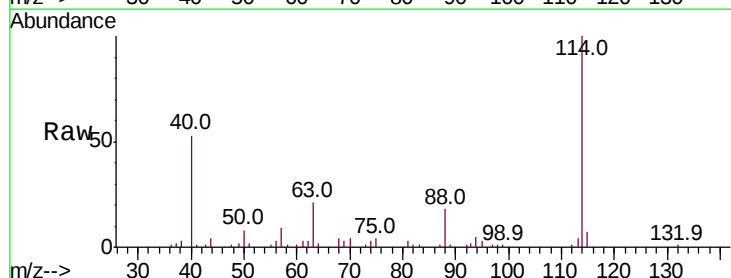
Tgt Ion: 114 Resp: 69956

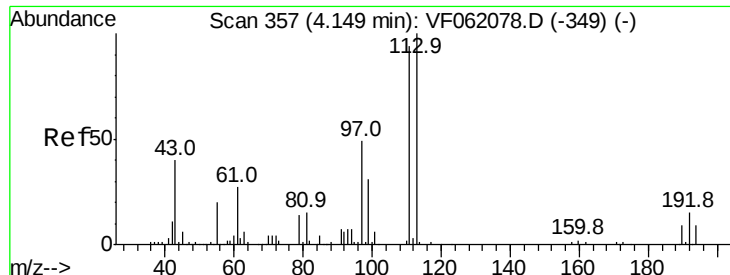
Ion Ratio Lower Upper

114 100

63 20.7 0.0 37.8

88 18.2 0.0 36.4





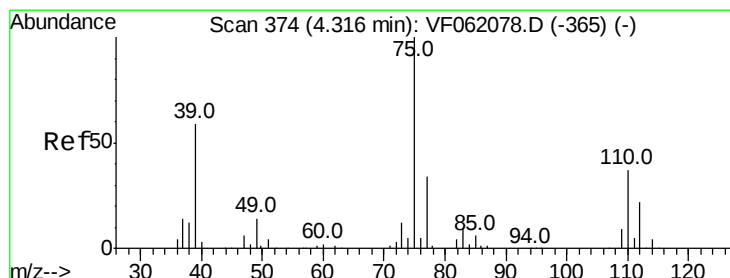
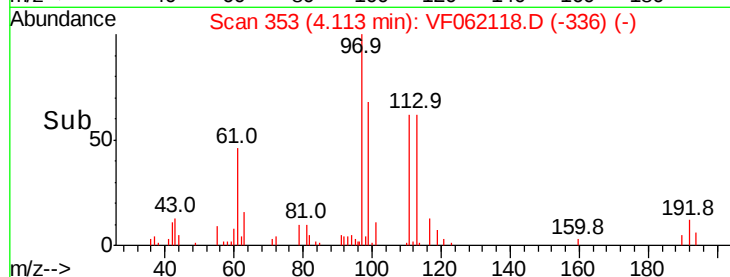
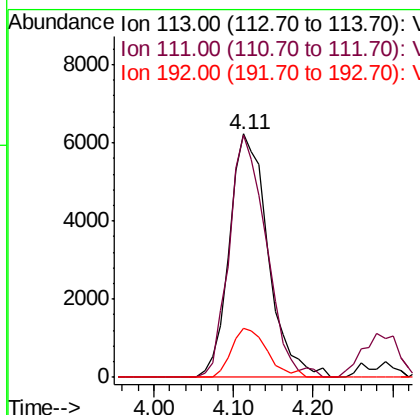
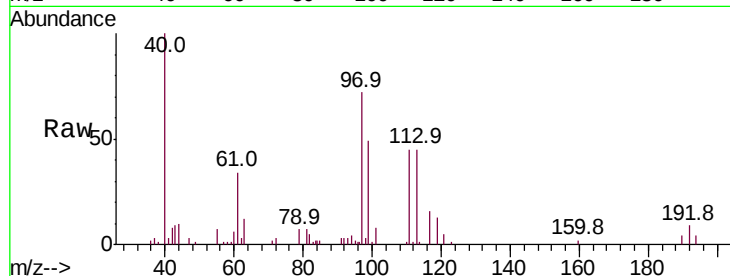
#35
 Dibromofluoromethane
 Concen: 44.414 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.04 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
113	100	21018		
111	99.7	75.4	113.0	
192	19.9	12.3	18.5#	

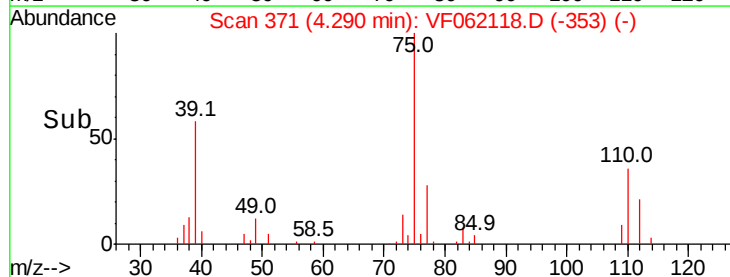
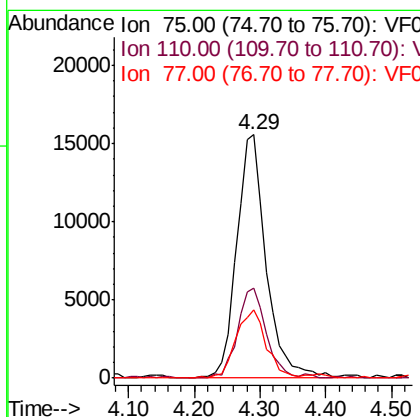
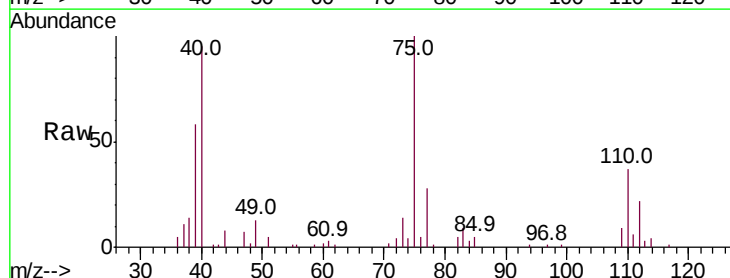
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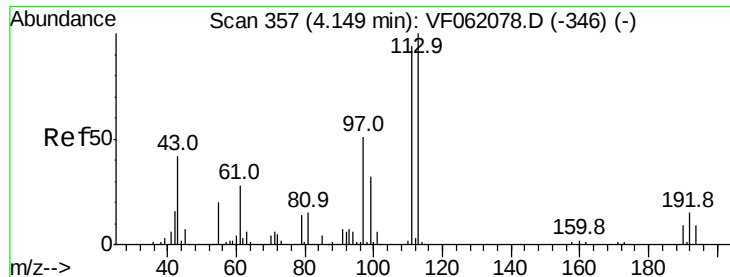
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#36
 1,1-Dichloropropene
 Concen: 73.403 ug/l
 RT: 4.29 min Scan# 371
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	48911		
110	37.2	18.5	55.5	
77	28.0	27.4	41.0	





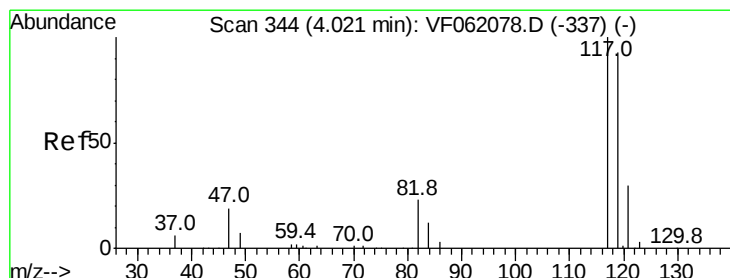
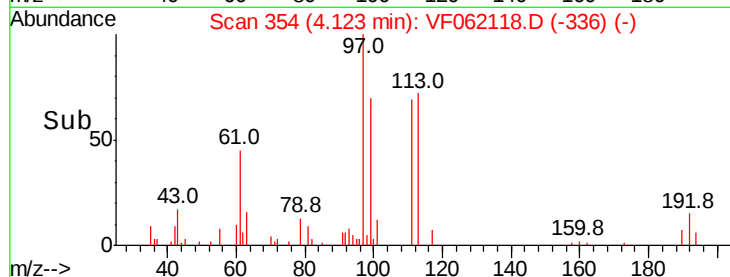
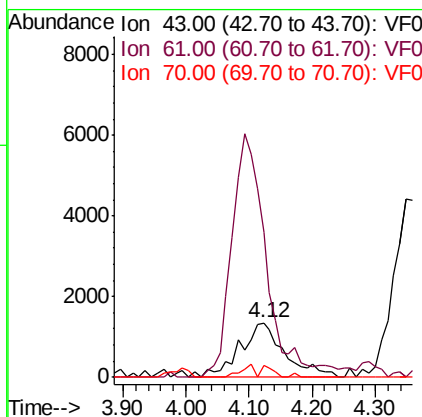
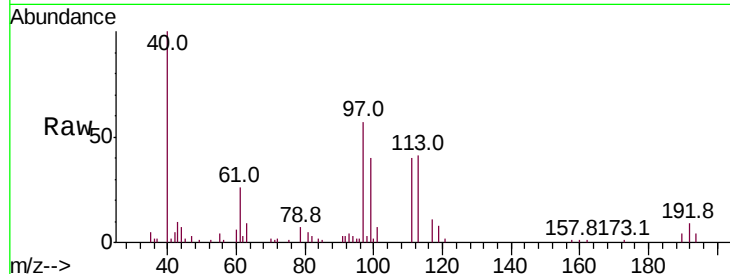
#37
Ethyl Acetate
Concen: 23.018 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	266.9	53.6	80.4#
70	23.1	9.0	13.6#

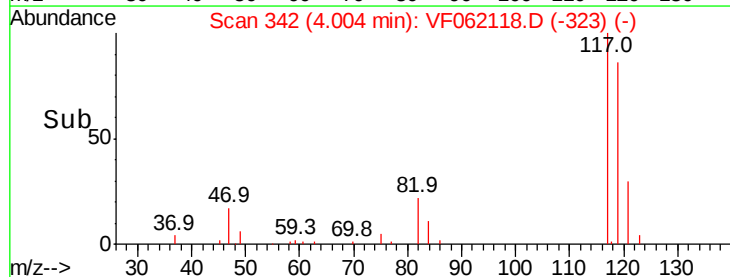
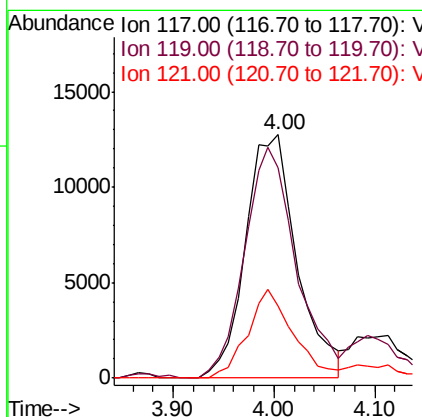
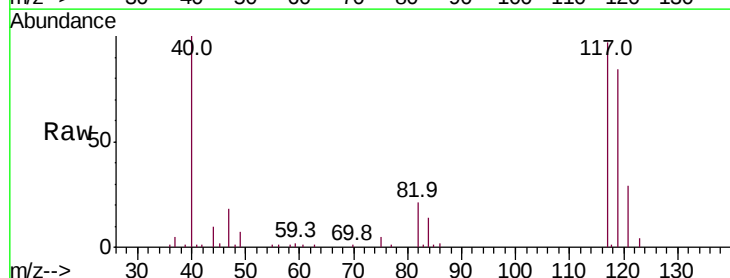
Manual Integrations
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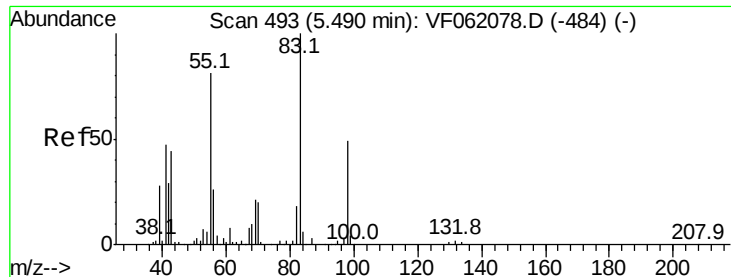
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#38
Carbon Tetrachloride
Concen: 99.540 ug/l
RT: 4.00 min Scan# 342
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	86.4	74.7	112.1
121	29.6	23.6	35.4





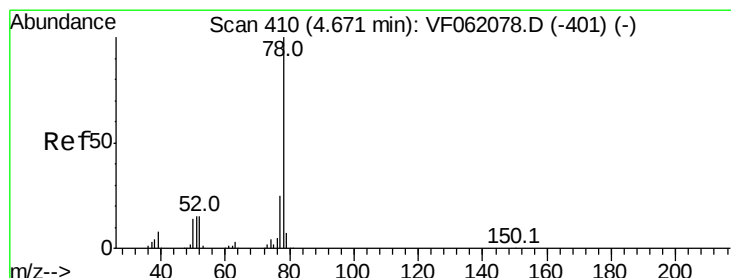
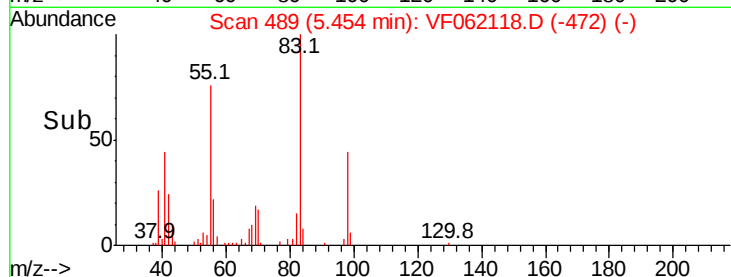
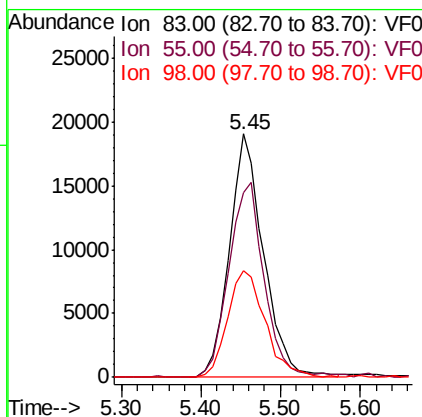
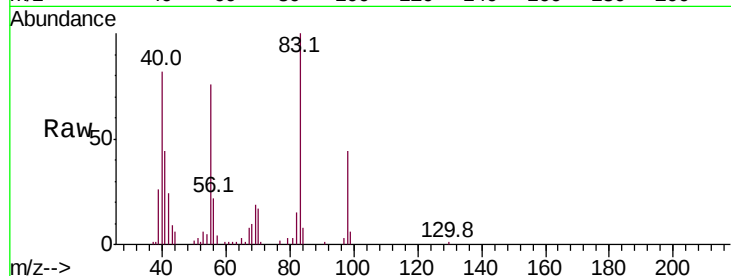
#39
Methvlcvclohexane
Concen: 73.627 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.04 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
83	100		
55	75.8	64.5	96.7
98	44.0	39.1	58.7

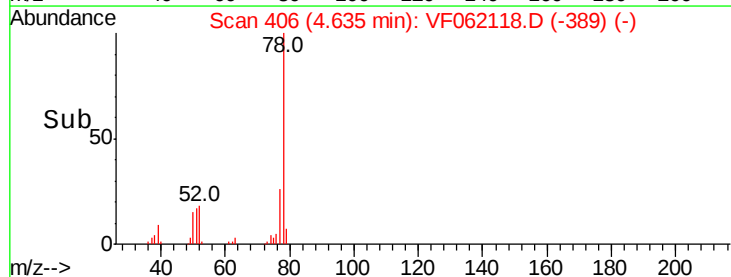
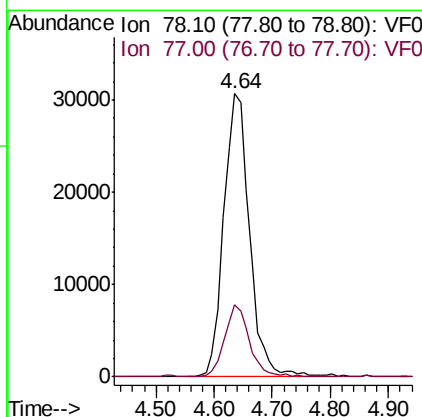
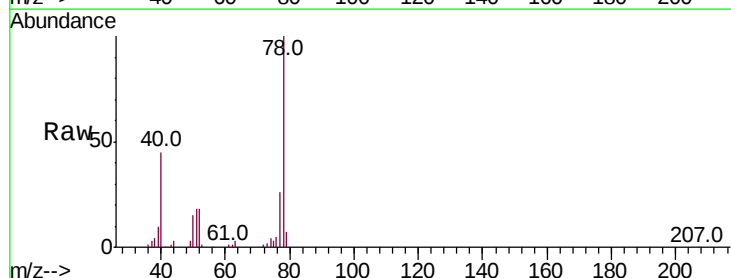
Manual Integrations
APPROVED

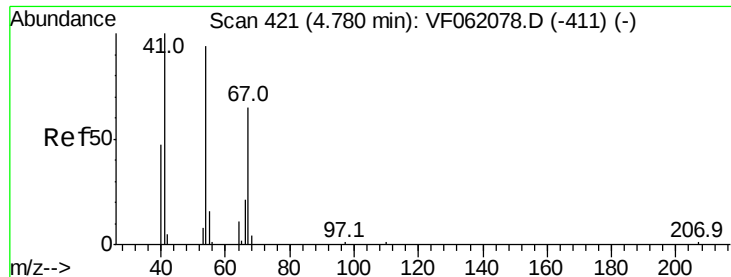
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#40
Benzene
Concen: 52.794 ug/l
RT: 4.64 min Scan# 406
Delta R.T. -0.04 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.7	19.8	29.6





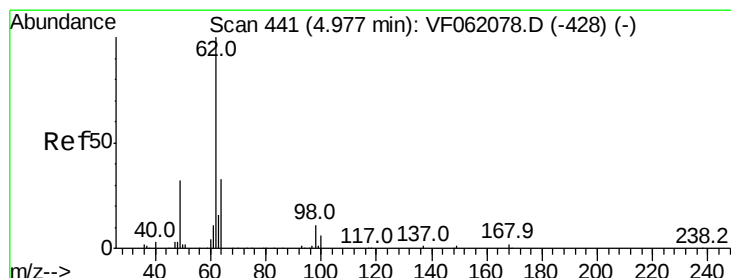
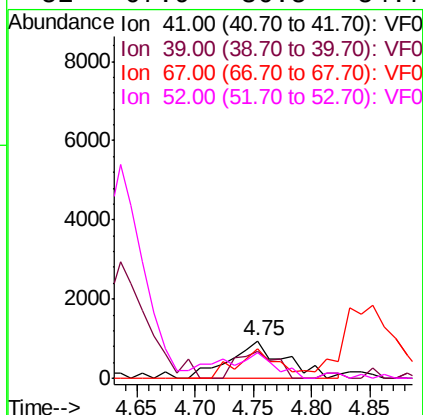
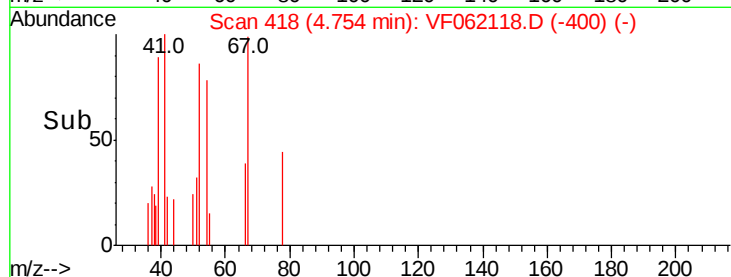
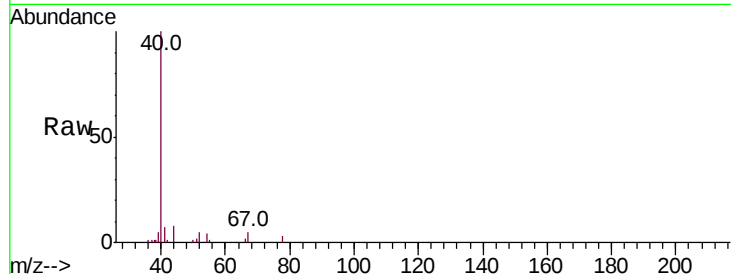
#41
Methacrylonitrile
Concen: 19.801 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ion	Ratio	Resp:	Lower	Upper
41	100		3051		
39	70.3	43.5	65.3#		
67	78.2	51.6	77.4#		
52	67.9	36.5	54.7#		

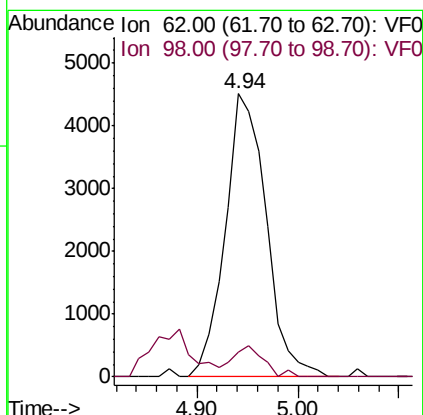
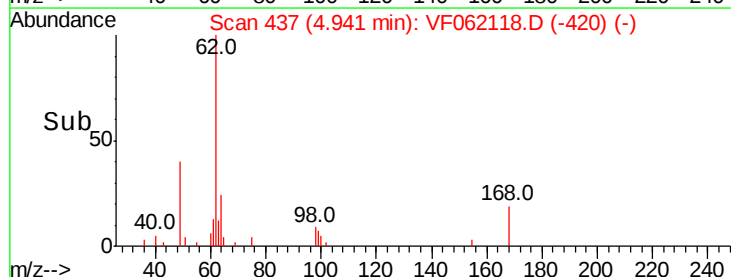
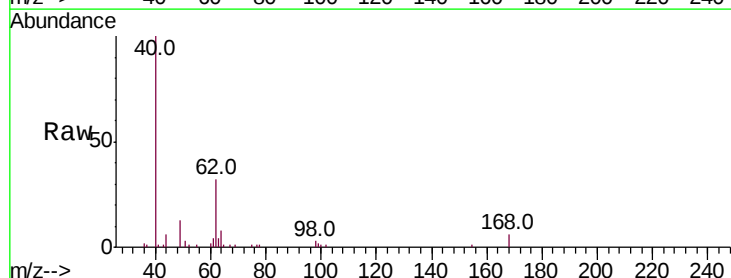
Manual Integrations
APPROVED

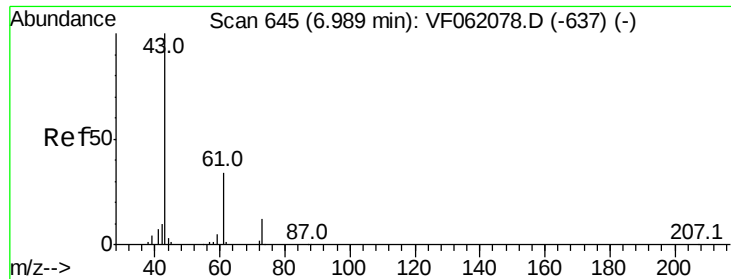
MMDadoda
3/25/2019 12:40:38 PM



#42
1,2-Dichloroethane
Concen: 30.224 ug/l
RT: 4.94 min Scan# 437
Delta R.T. -0.04 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion	Ion	Ratio	Resp:	Lower	Upper
62	100		12767		
98	8.9	0.0	23.2		





#43

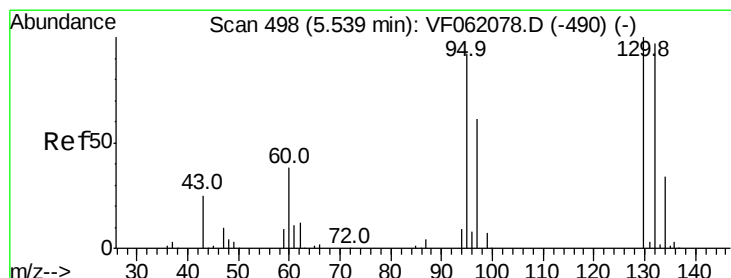
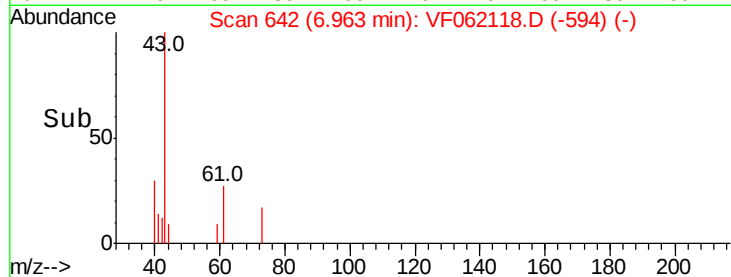
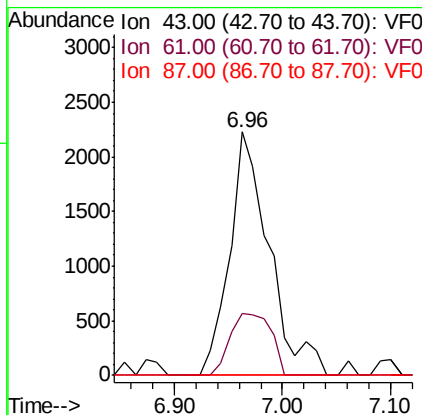
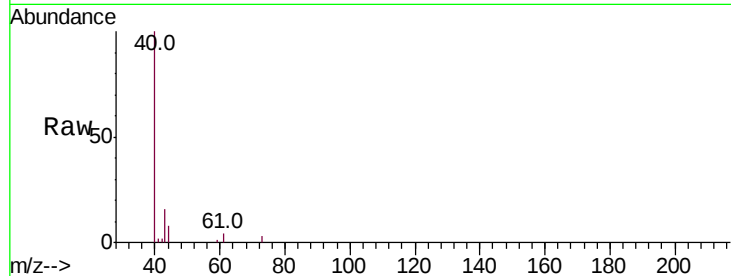
Isopropyl Acetate
 Concen: 16.126 ug/l
 RT: 6.96 min Scan# 642
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	25.4	27.0	40.4#
87	0.0	0.4	0.6#

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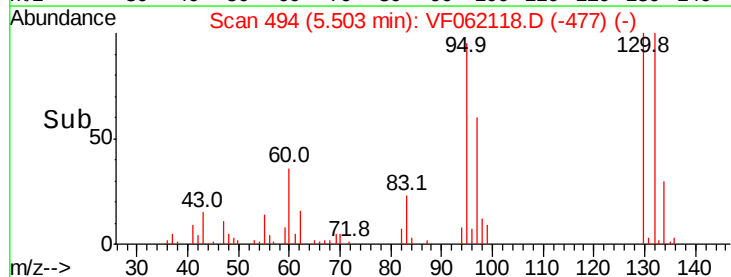
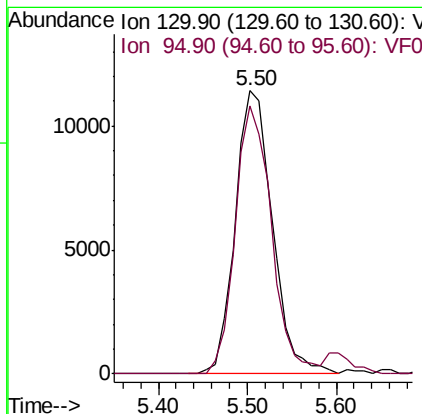
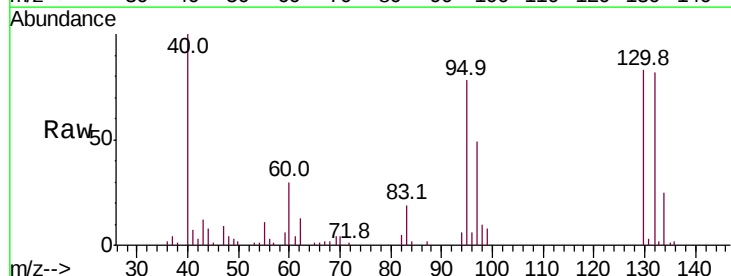
MMDadoda
 3/25/2019 12:40:38 PM

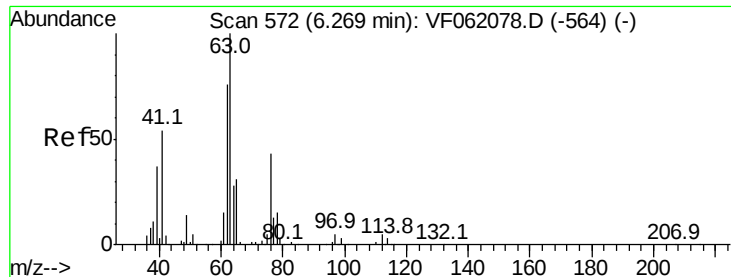


#44

Trichloroethene
 Concen: 60.592 ug/l
 RT: 5.50 min Scan# 494
 Delta R.T. -0.04 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.8	0.0	183.4





#45

1,2-Dichloropropane

Concen: 38.120 ug/l

RT: 6.23 min Scan# 568

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 63 Resp: 16241

Ion Ratio Lower Upper

63 100

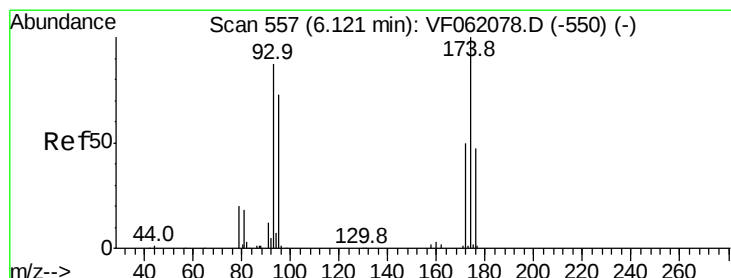
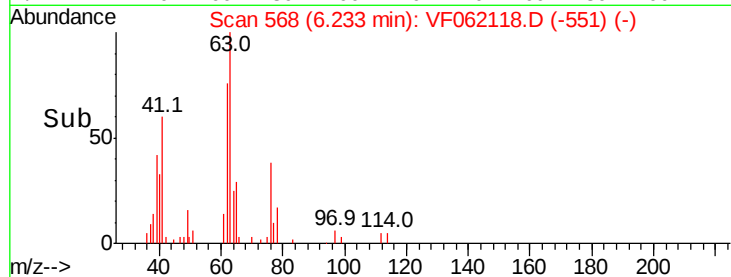
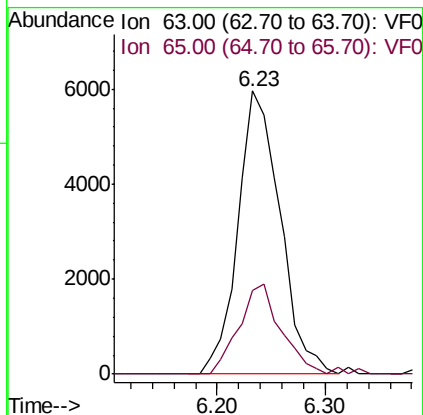
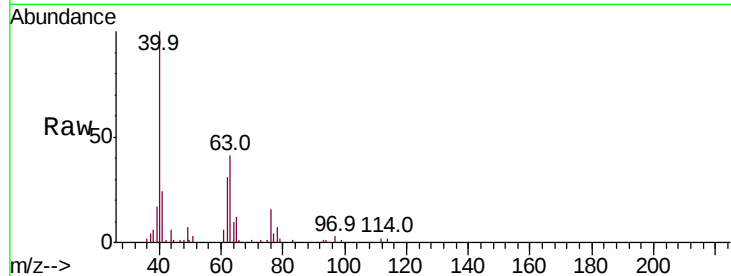
65 29.4 24.9 37.3

Manual Integrations

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#46

Dibromomethane

Concen: 22.960 ug/l

RT: 6.08 min Scan# 553

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

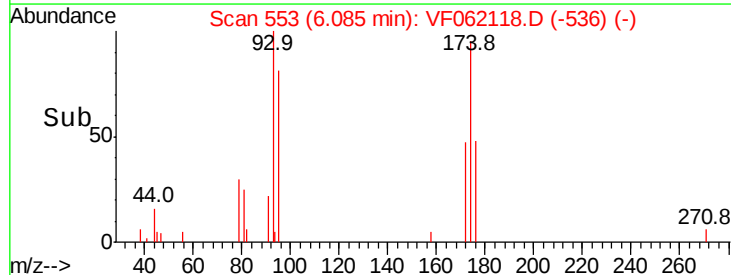
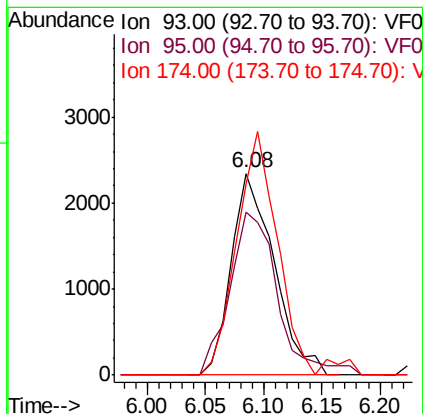
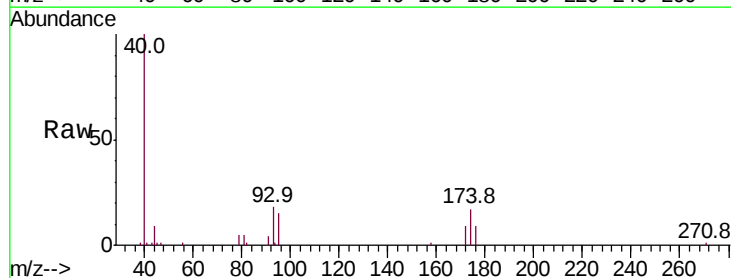
Tgt Ion: 93 Resp: 5981

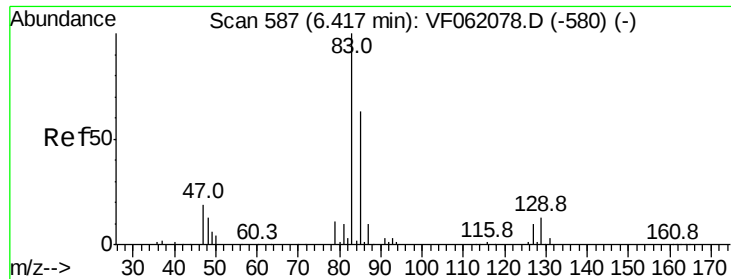
Ion Ratio Lower Upper

93 100

95 76.5 67.4 101.2

174 90.0 92.0 138.0#





#47

Bromodichloromethane

Concen: 36.457 ug/l

RT: 6.38 min Scan# 583

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

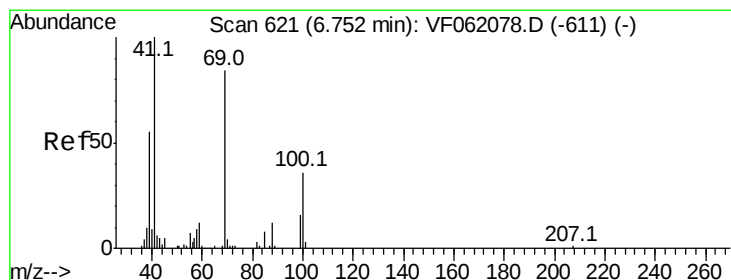
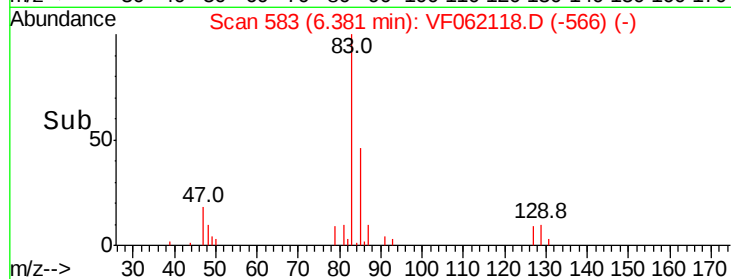
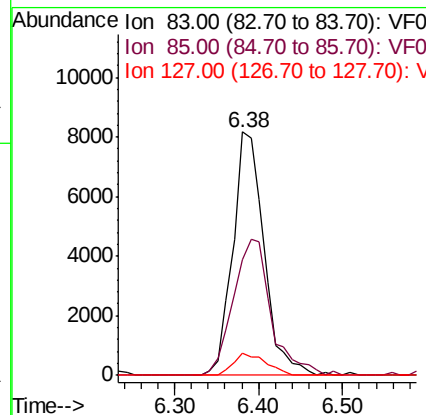
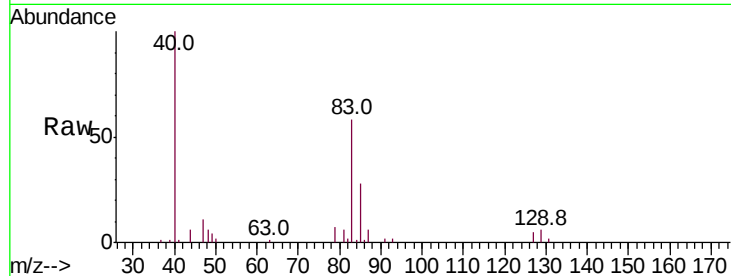
WP022SB439-190318-(13-14)MSD

Tot Ion: 83 Resp: 21036

Ion	Ratio	Lower	Upper
83	100		
85	47.6	50.7	76.1#
127	9.1	7.8	11.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 19.731 ug/l

RT: 6.72 min Scan# 617

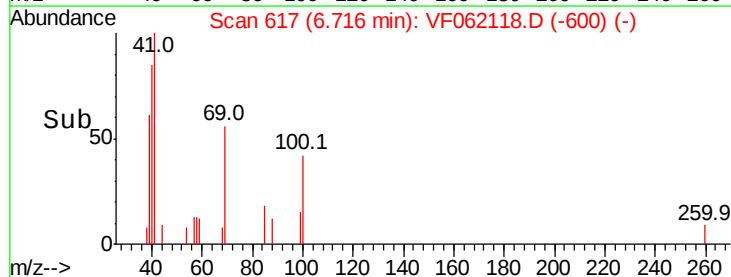
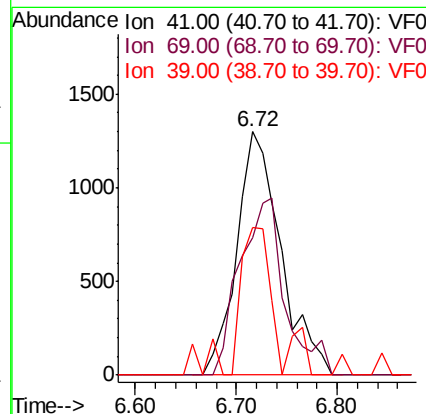
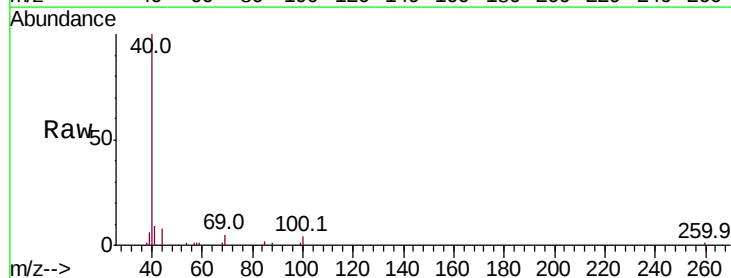
Delta R.T. -0.04 min

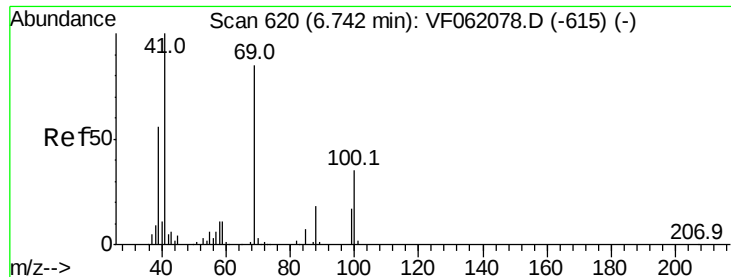
Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion: 41 Resp: 3962

Ion	Ratio	Lower	Upper
41	100		
69	56.3	66.6	100.0#
39	60.5	43.6	65.4





#49

1,4-Dioxane

Concen: 327.482 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

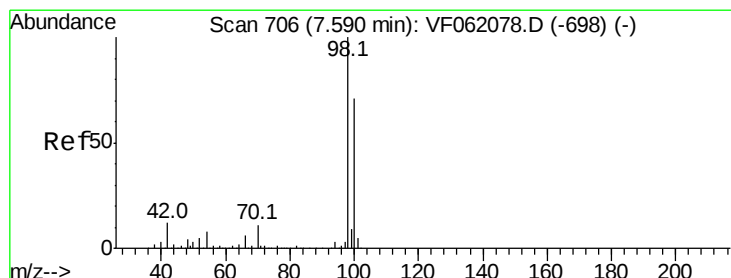
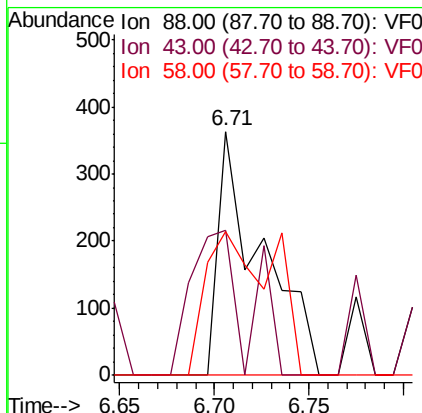
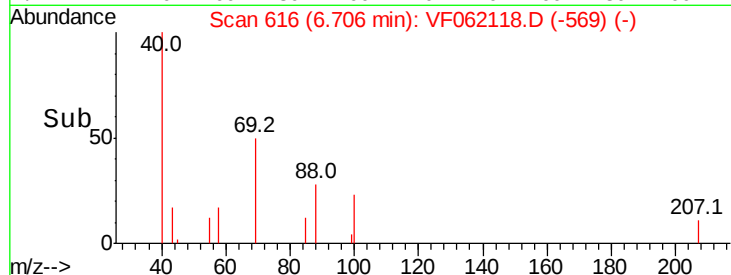
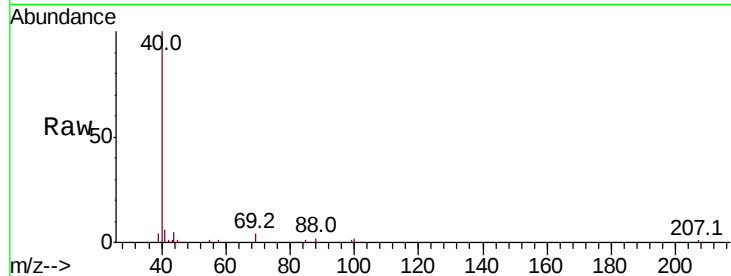
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
88	100		
43	59.5	35.0	52.4#
58	59.2	49.9	74.9

Manual Integrations
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#50

Toluene-d8

Concen: 49.927 ug/l

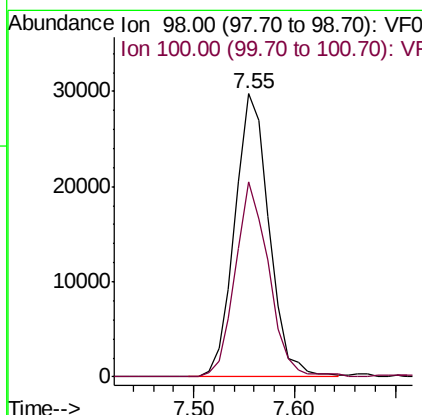
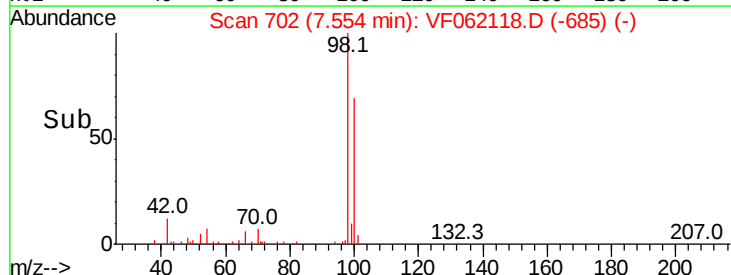
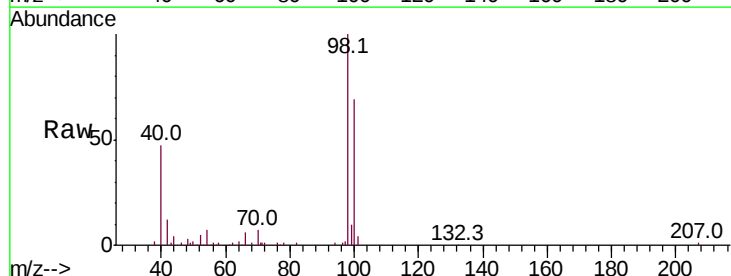
RT: 7.55 min Scan# 702

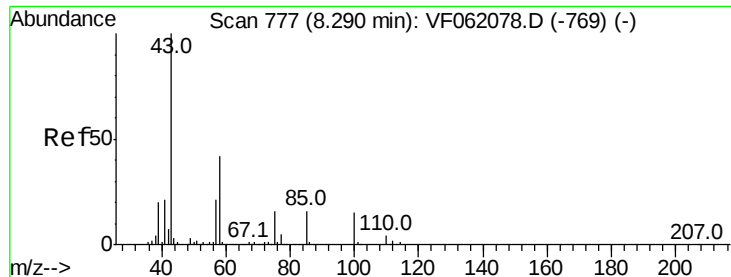
Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Lower	Upper
98	100		
100	69.1	57.0	85.6





#51

4-Methyl-2-Pentanone

Concen: 74.152 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 17503

Ion Ratio Lower Upper

43 100

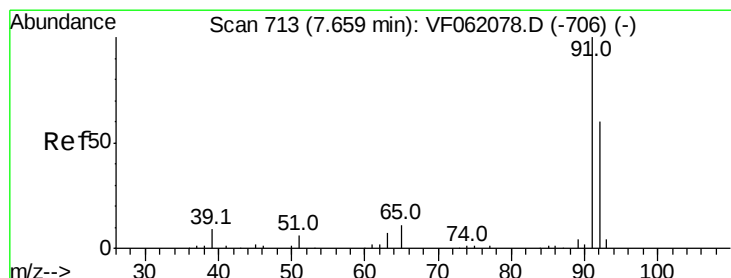
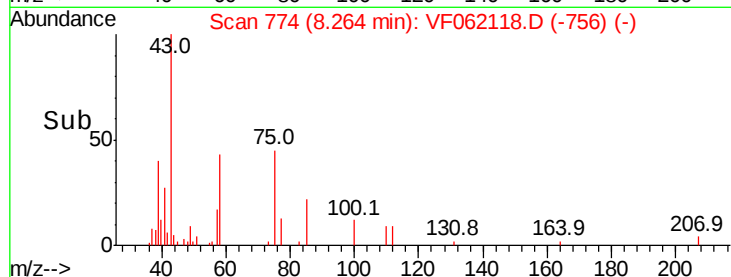
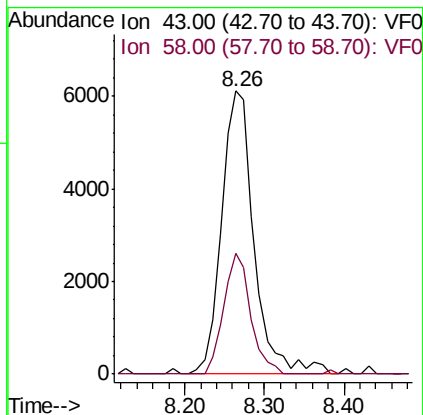
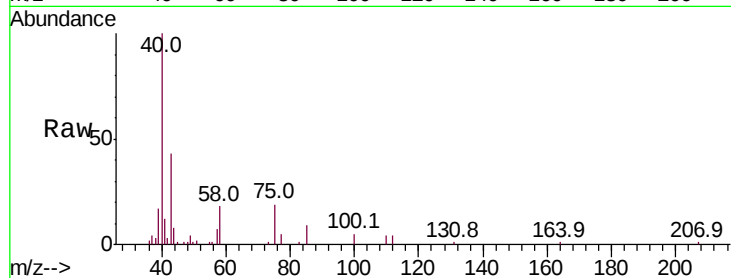
58 42.8 33.8 50.8

Manual Integrations

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#52

Toluene

Concen: 56.163 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF062118.D

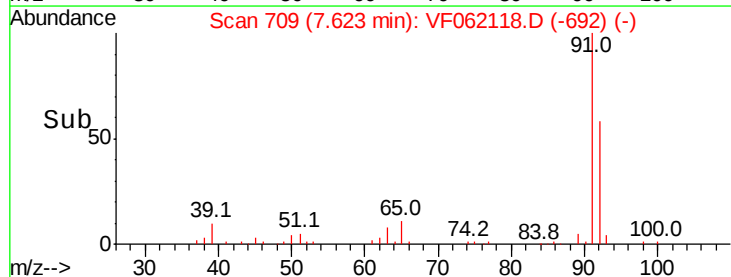
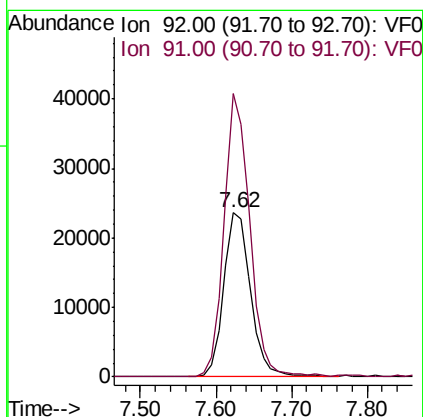
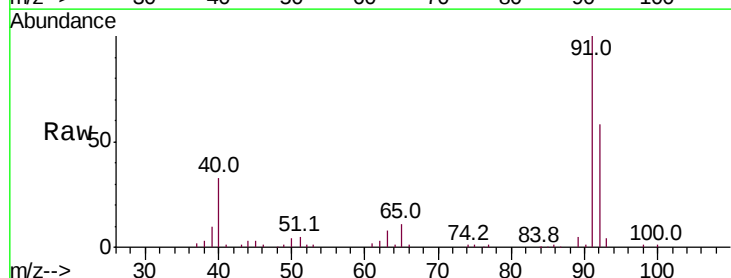
Acq: 23 Mar 2019 15:39

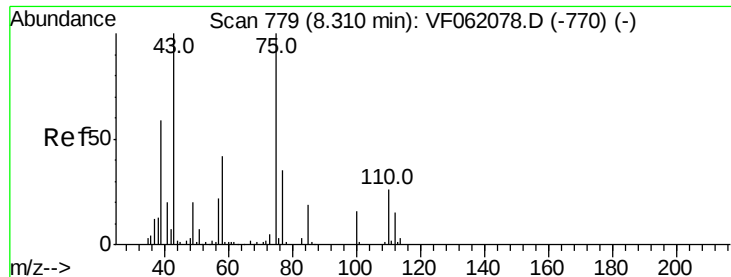
Tgt Ion: 92 Resp: 58108

Ion Ratio Lower Upper

92 100

91 172.3 134.1 201.1





#53

t-1,3-Dichloropropene

Concen: 26.720 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 75 Resp: 12103

Ion Ratio Lower Upper

75 100

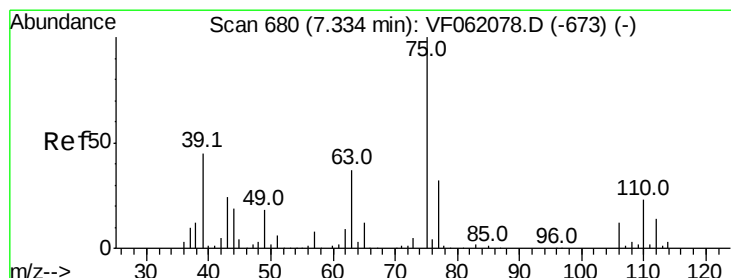
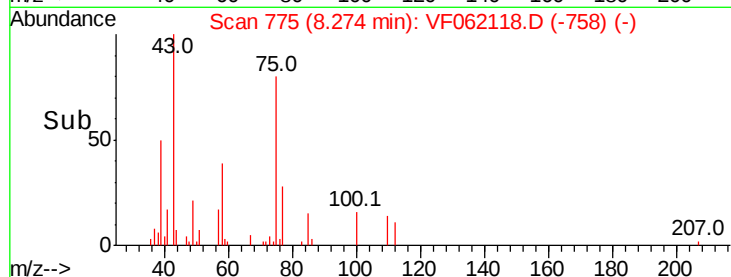
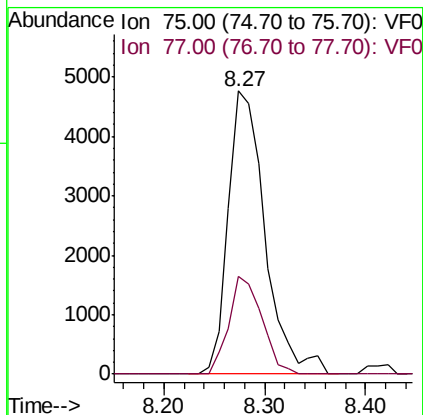
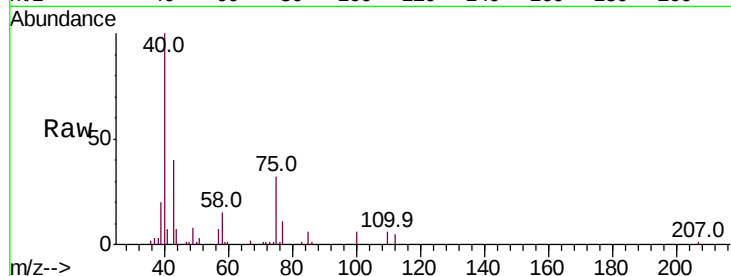
77 34.4 28.0 42.0

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 30.996 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

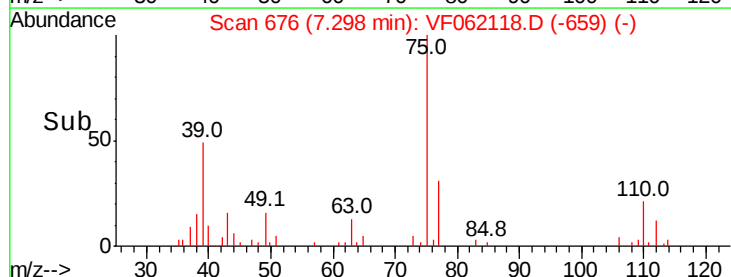
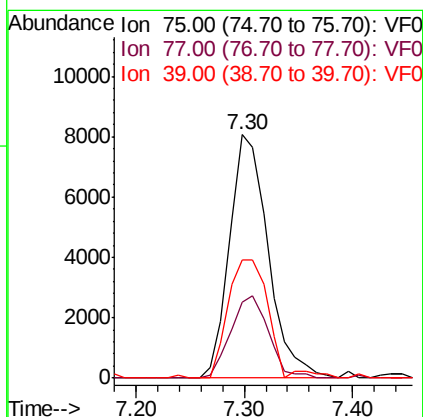
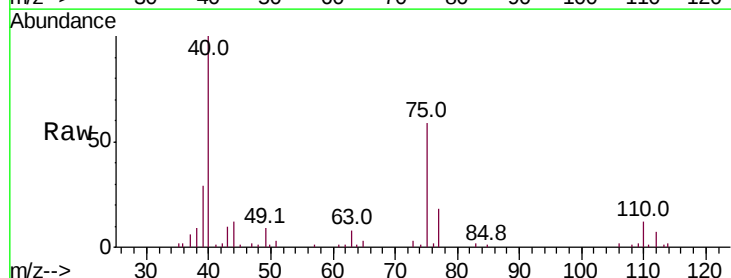
Tgt Ion: 75 Resp: 20089

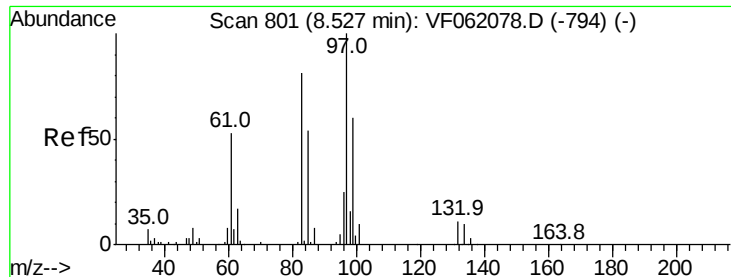
Ion Ratio Lower Upper

75 100

77 30.9 25.8 38.6

39 48.7 35.9 53.9





#55

1,1,2-Trichloroethane

Concen: 24.183 ug/l

RT: 8.50 min Scan# 798

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

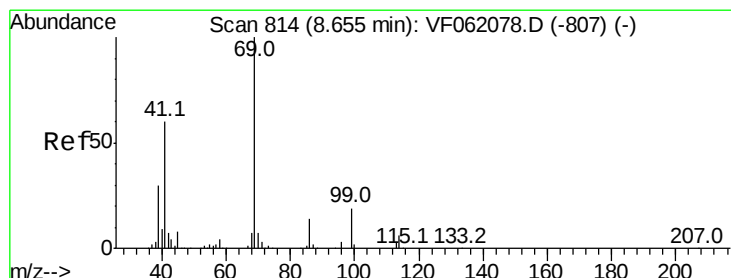
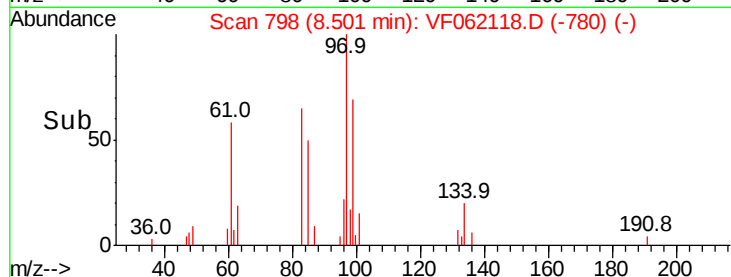
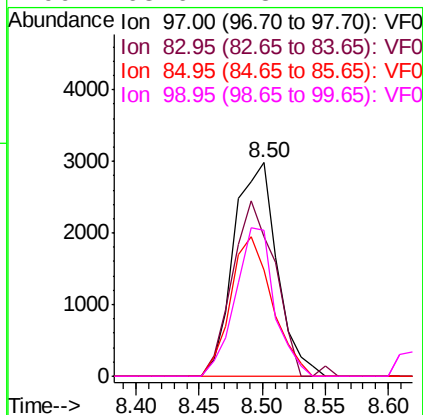
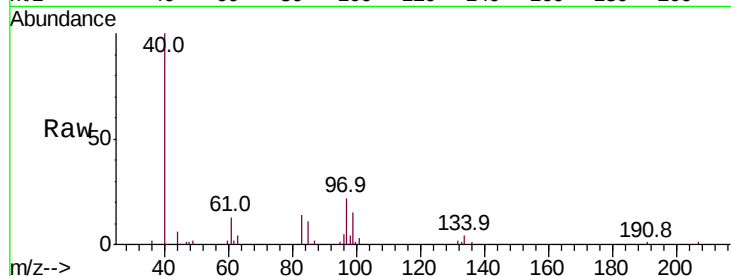
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	97	Resp:	7107
Ion	Ratio	Lower	Upper
97	100		
83	65.3	64.6	97.0
85	49.7	43.6	65.4
99	68.6	48.2	72.2

Manual Integrations
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#56

Ethyl methacrylate

Concen: 18.306 ug/l

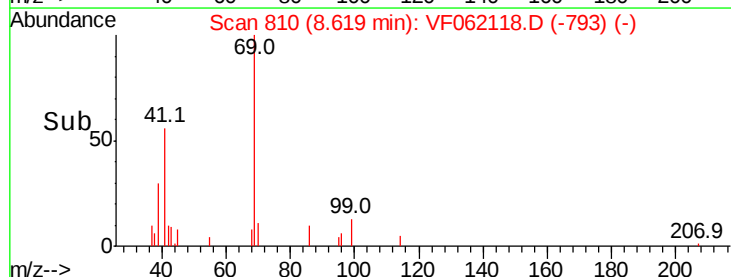
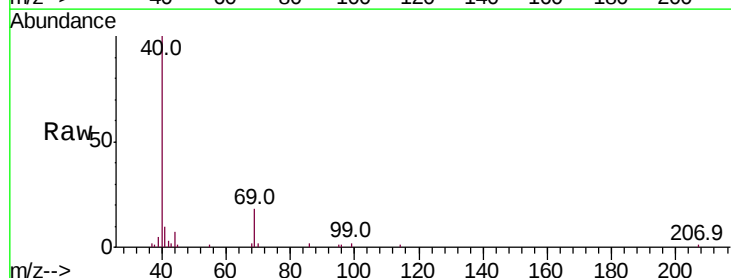
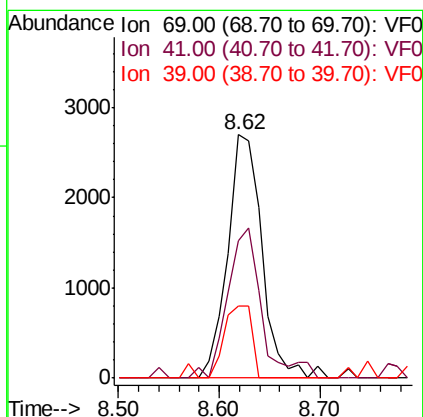
RT: 8.62 min Scan# 810

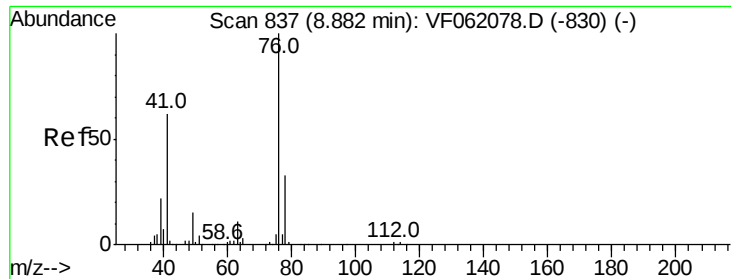
Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion:	69	Resp:	6416
Ion	Ratio	Lower	Upper
69	100		
41	56.4	48.2	72.2
39	29.6	24.0	36.0





#57

1,3-Dichloropropane

Concen: 25.615 ug/l

RT: 8.86 min Scan# 834

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 76 Resp: 12494

Ion Ratio Lower Upper

76 100

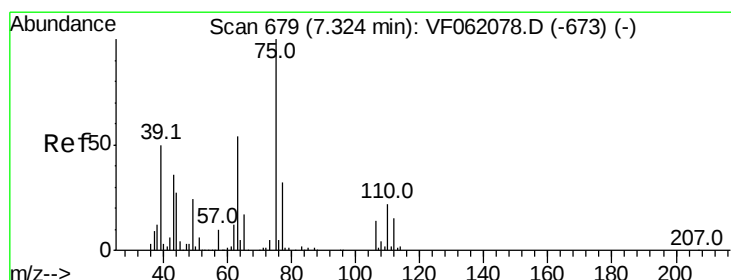
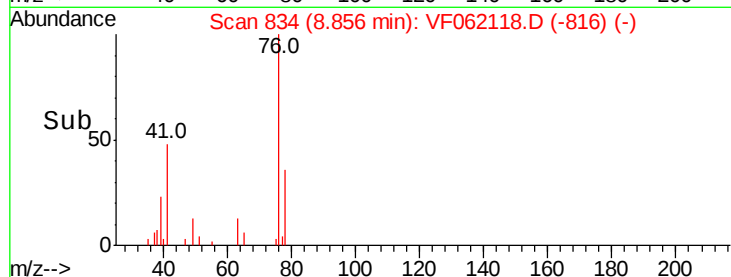
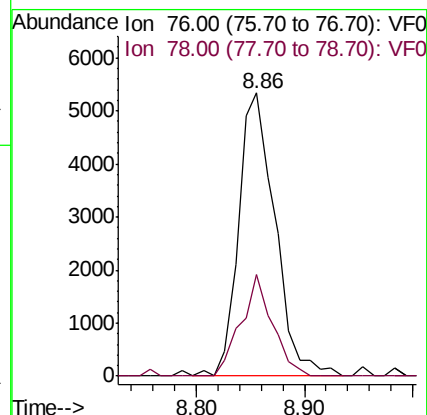
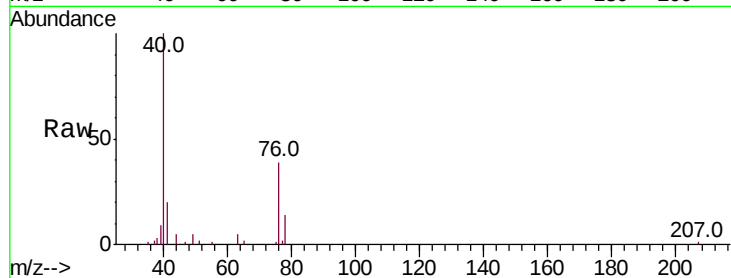
78 36.1 26.6 39.8

Manual Integrations

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#58

2-Chloroethyl Vinyl ether

Concen: 50.240 ug/l

RT: 7.30 min Scan# 676

Delta R.T. -0.03 min

Lab File: VF062118.D

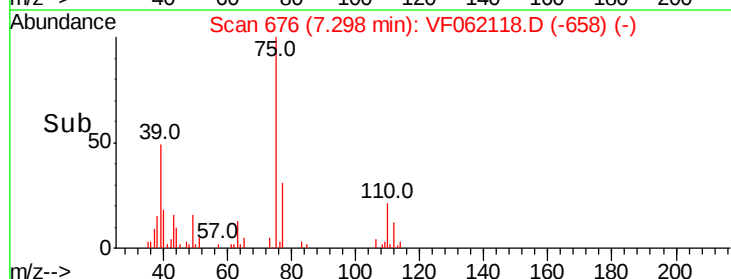
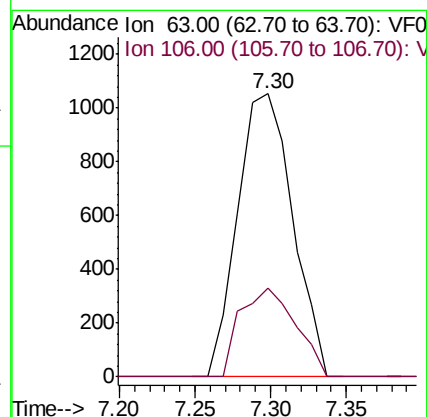
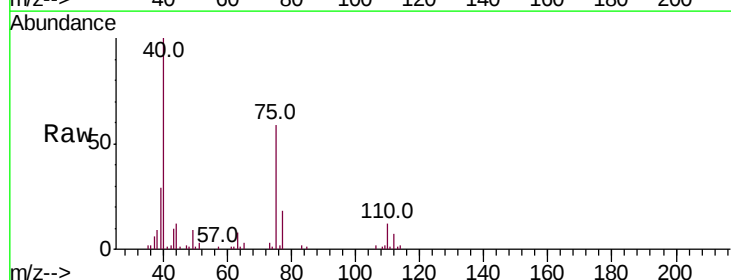
Acq: 23 Mar 2019 15:39

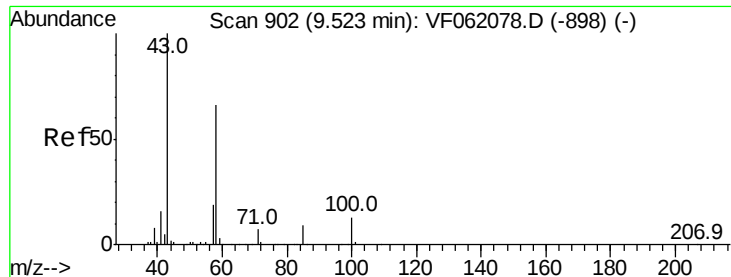
Tgt Ion: 63 Resp: 2672

Ion Ratio Lower Upper

63 100

106 31.2 21.5 32.3





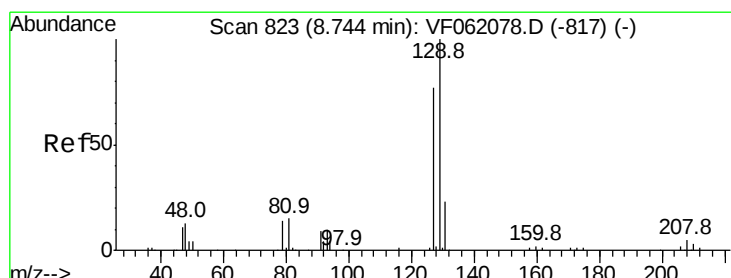
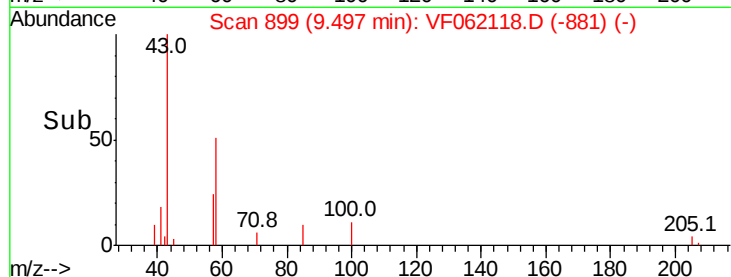
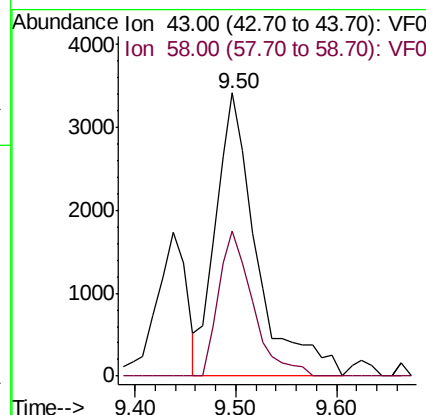
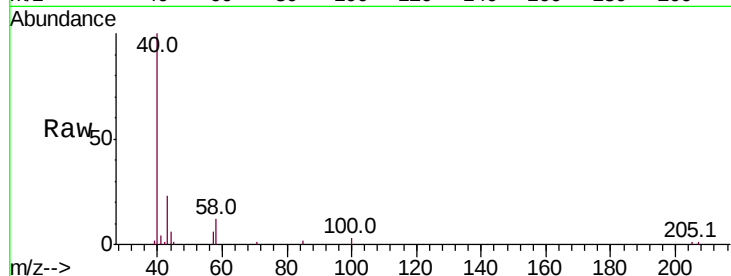
#59
2-Hexanone
Concen: 55.723 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 9640
Ion Ratio Lower Upper
43 100
58 51.3 28.8 86.4

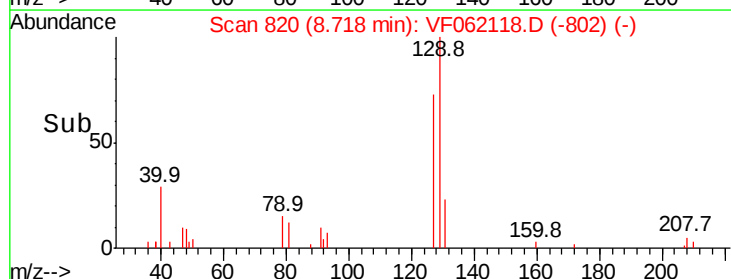
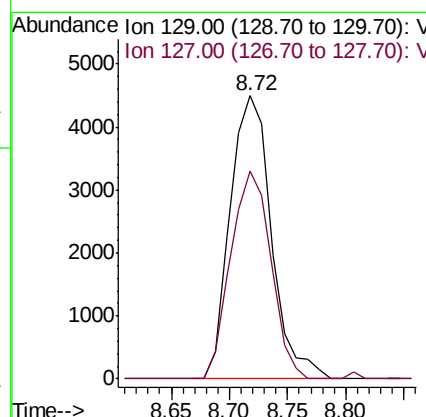
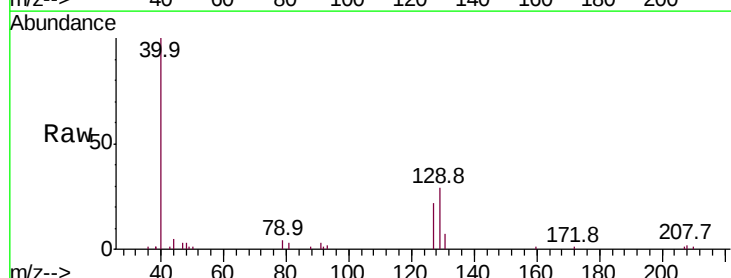
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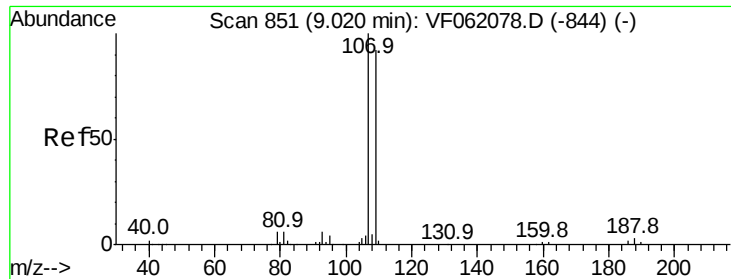
MMDadoda
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#60
Dibromochloromethane
Concen: 26.986 ug/l
RT: 8.72 min Scan# 820
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion: 129 Resp: 11025
Ion Ratio Lower Upper
129 100
127 73.4 38.7 116.1





#61

1,2-Dibromoethane

Concen: 20.884 ug/l

RT: 8.99 min Scan# 848

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:107 Resp: 6548

Ion Ratio Lower Upper

107 100

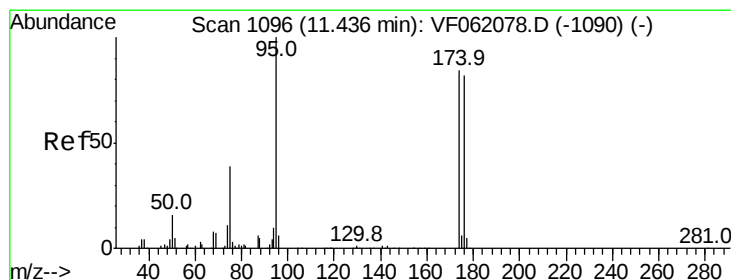
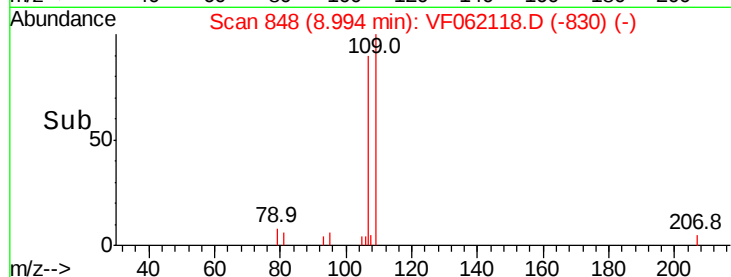
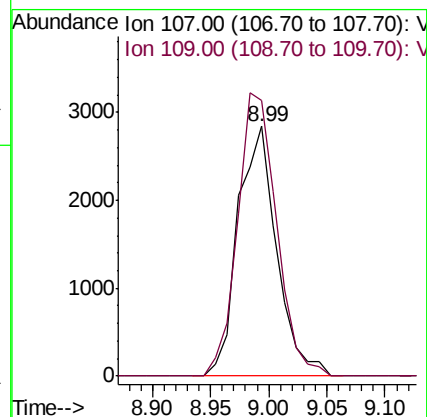
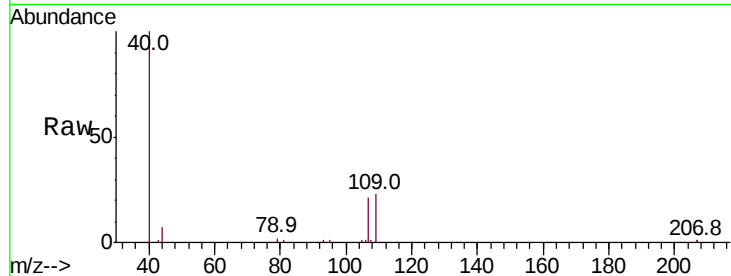
109 105.1 73.4 110.0

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#62

4-Bromofluorobenzene

Concen: 33.911 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

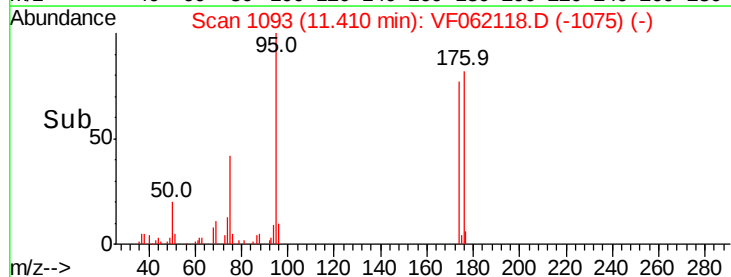
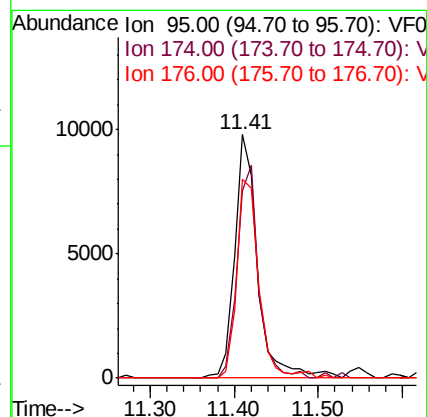
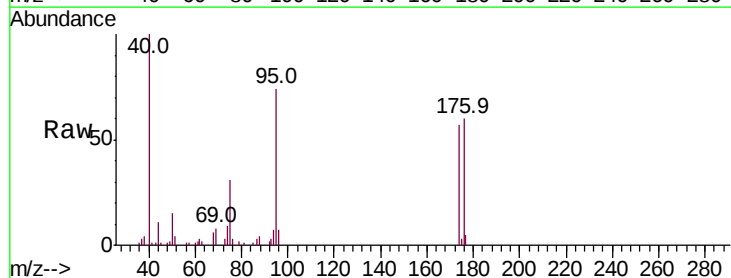
Tgt Ion: 95 Resp: 18493

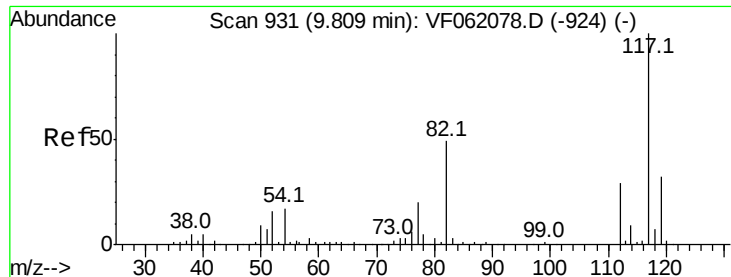
Ion Ratio Lower Upper

95 100

174 77.0 0.0 168.2

176 81.6 0.0 164.2





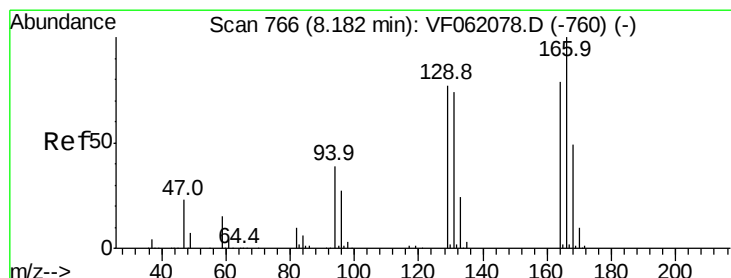
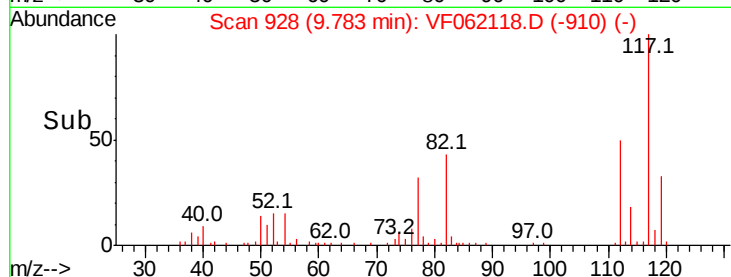
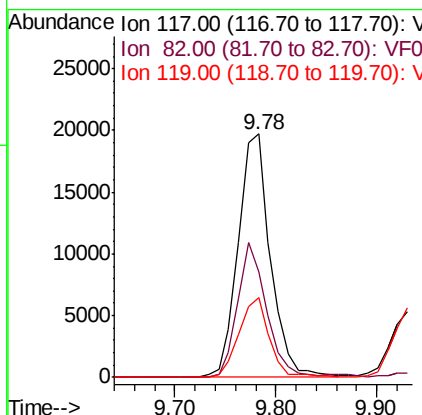
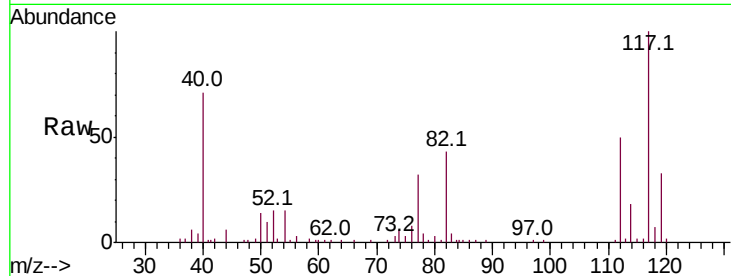
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
117	100		
82	43.1	39.2	58.8
119	32.7	25.4	38.2

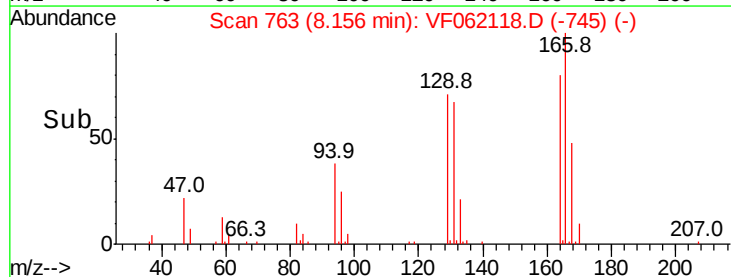
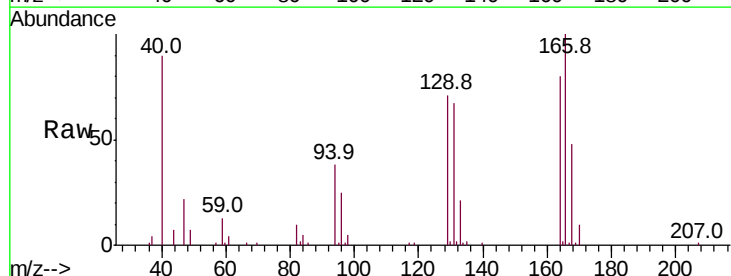
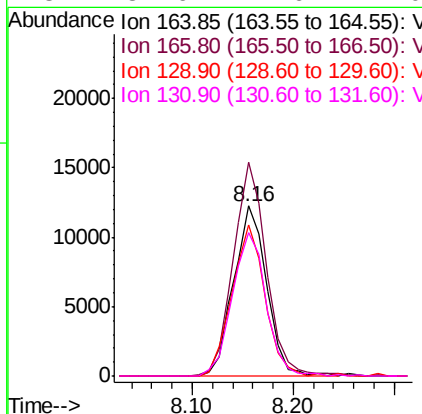
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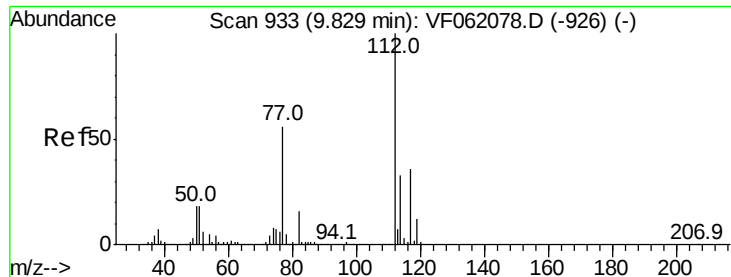
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#64
Tetrachloroethene
Concen: 82.348 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.7	100.9	151.3
129	89.0	77.9	116.9
131	84.6	74.6	112.0





#65

Chlorobenzene

Concen: 61.640 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:112 Resp: 50629

Ion Ratio Lower Upper

112 100

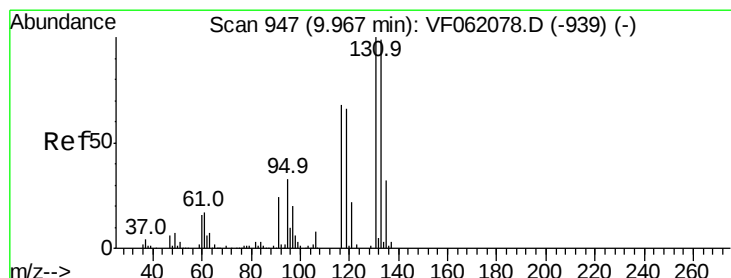
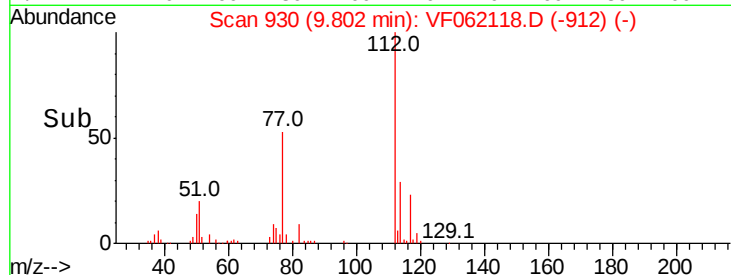
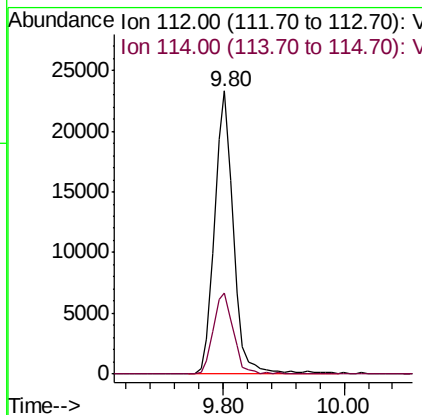
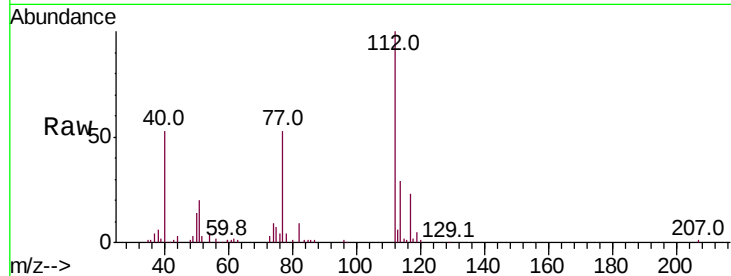
114 28.7 26.0 39.0

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#66

1,1,1,2-Tetrachloroethane

Concen: 54.718 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.04 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

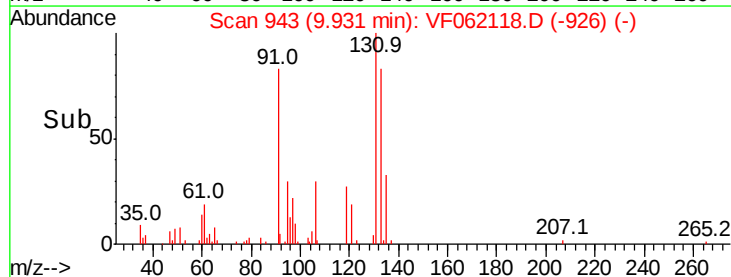
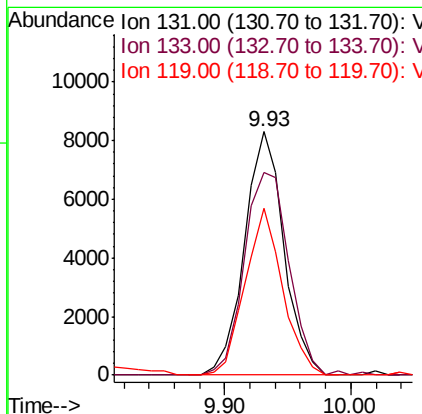
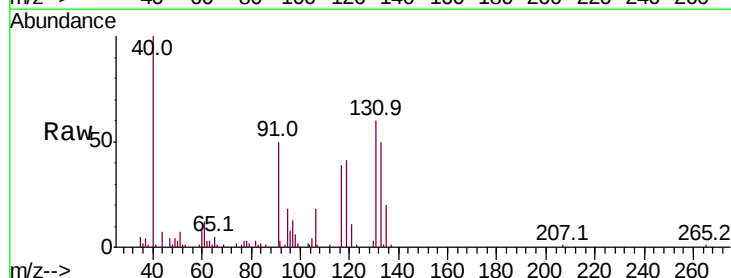
Tgt Ion:131 Resp: 18053

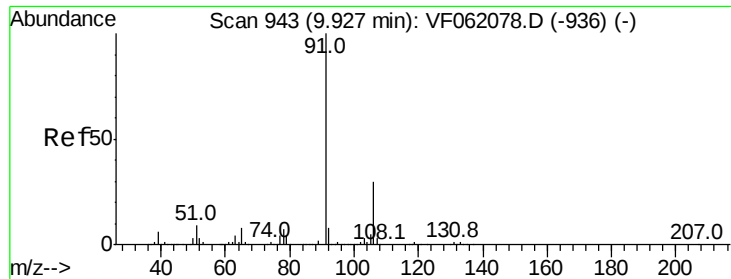
Ion Ratio Lower Upper

131 100

133 83.3 49.3 147.8

119 68.3 33.5 100.4





#67

Ethyl Benzene

Concen: 75.612 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 91 Resp: 108006

Ion Ratio Lower Upper

91 100

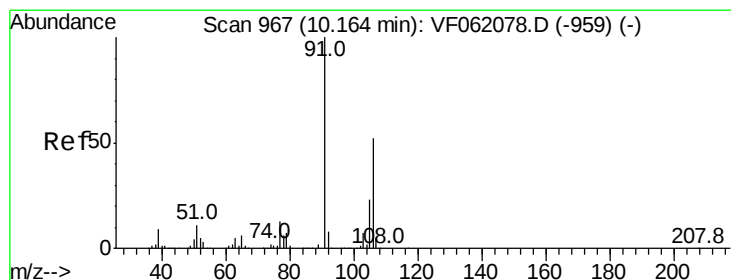
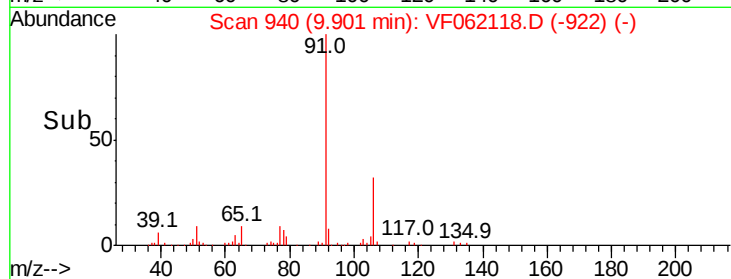
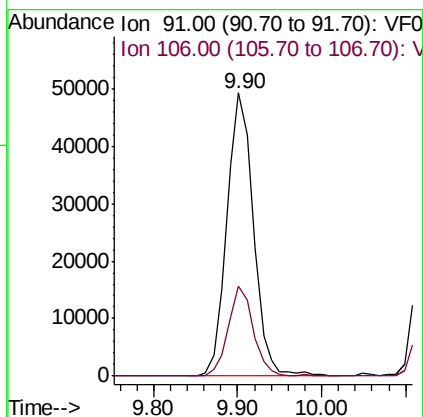
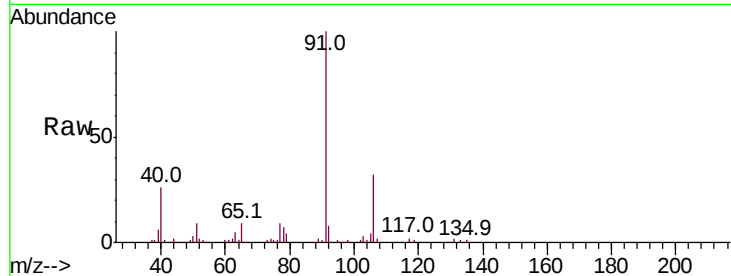
106 31.8 24.0 36.0

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#68

m/p-Xylenes

Concen: 141.171 ug/l

RT: 10.14 min Scan# 964

Delta R.T. -0.03 min

Lab File: VF062118.D

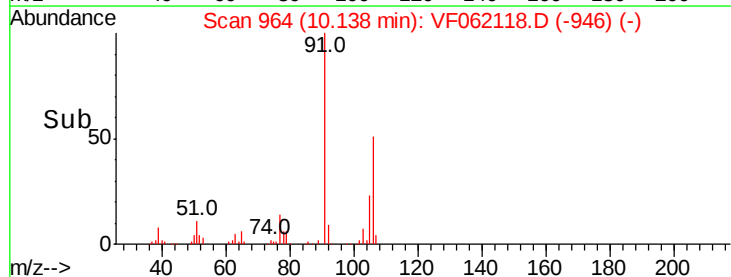
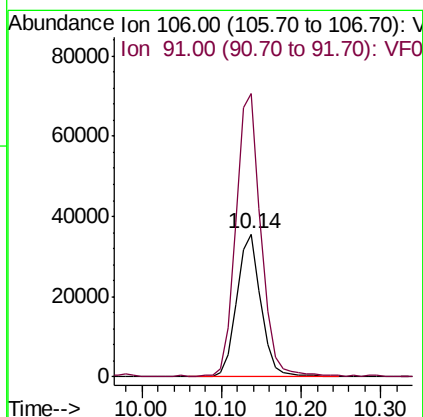
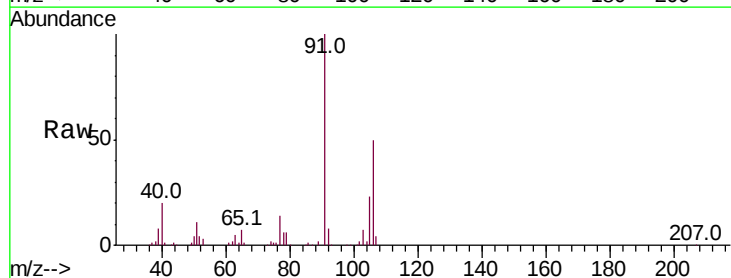
Acq: 23 Mar 2019 15:39

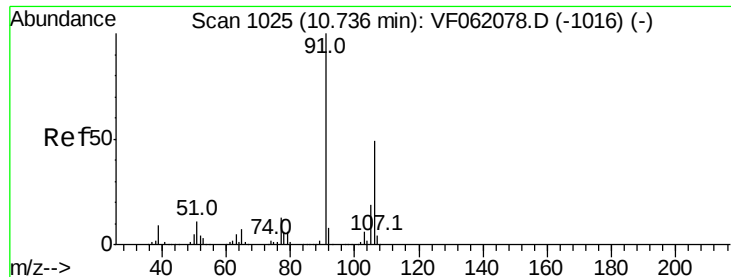
Tgt Ion: 106 Resp: 75369

Ion Ratio Lower Upper

106 100

91 198.2 154.4 231.6





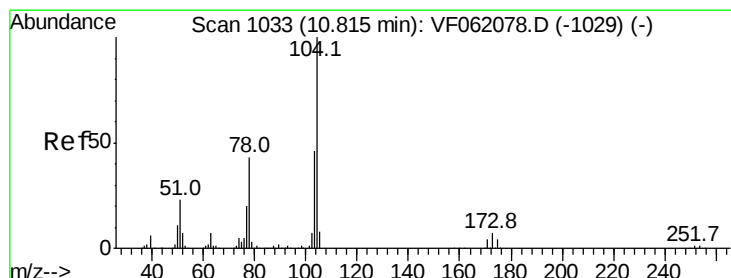
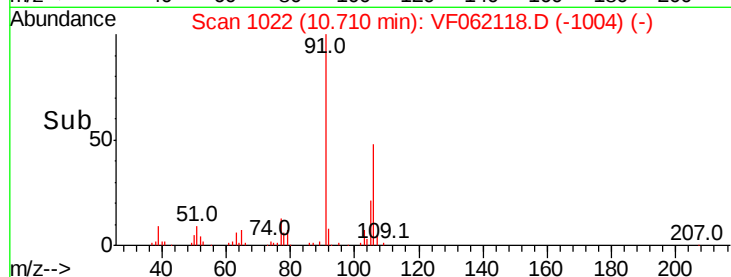
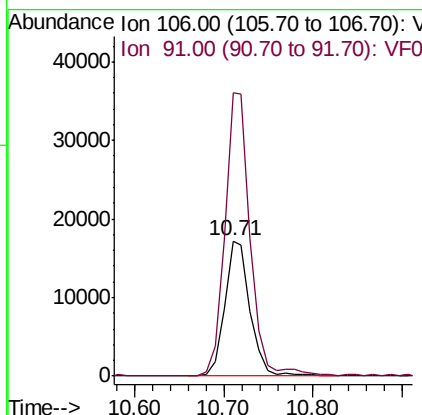
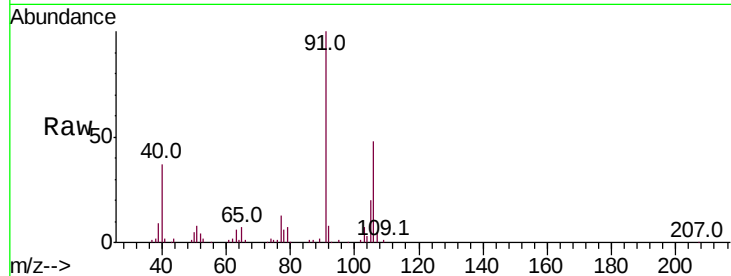
#69
o-Xylene
Concen: 61.567 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion:106 Resp: 34426
Ion Ratio Lower Upper
106 100
91 209.1 102.6 307.8

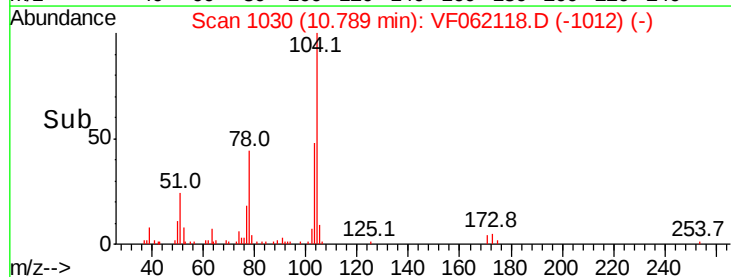
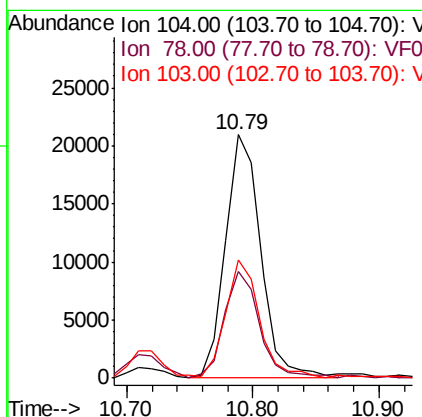
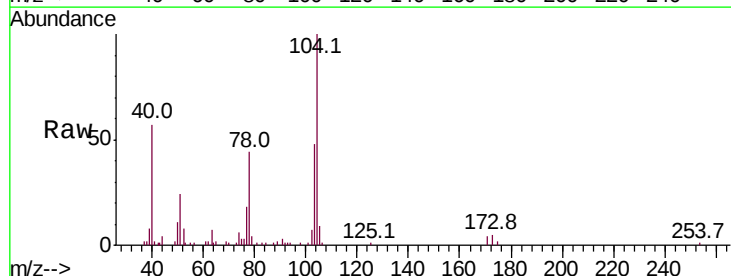
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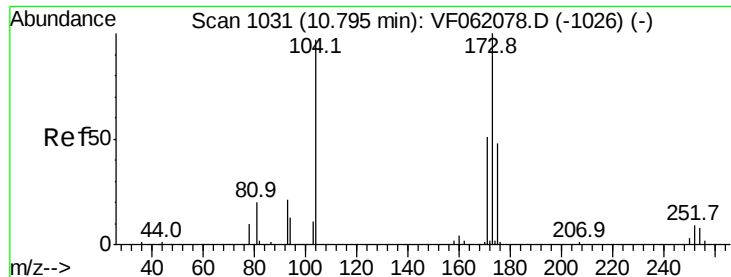
MMDadoda
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#70
Styrene
Concen: 48.090 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion:104 Resp: 40743
Ion Ratio Lower Upper
104 100
78 44.0 34.3 51.5
103 48.3 36.9 55.3





#71

Bromoform

Concen: 26.222 ug/l

RT: 10.77 min Scan# 1028

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

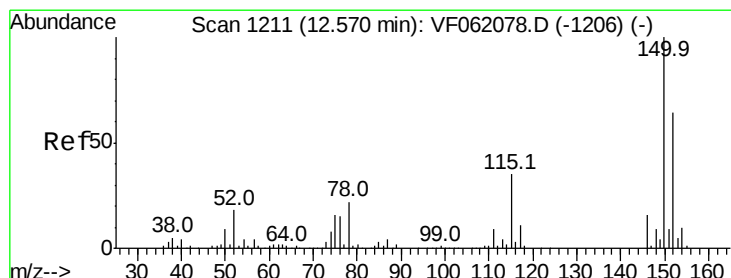
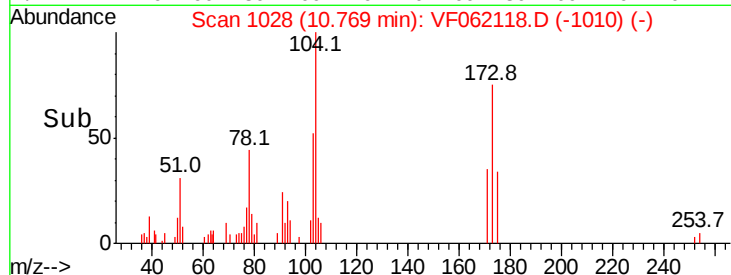
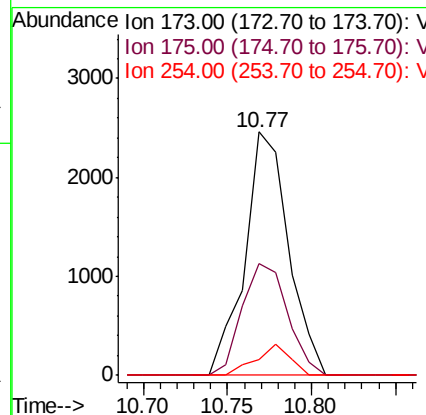
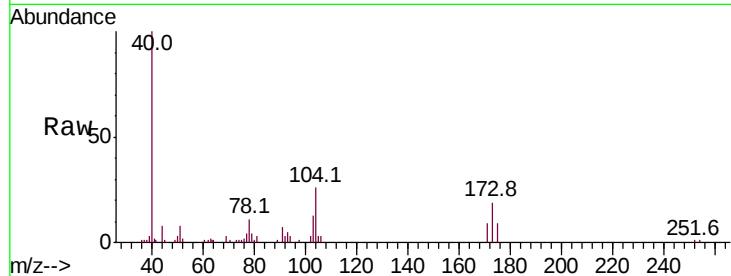
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	173	Resp:	4425
Ion Ratio	Lower	Upper	
173	100		
175	46.0	24.1	72.4
254	6.5	6.2	9.4

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

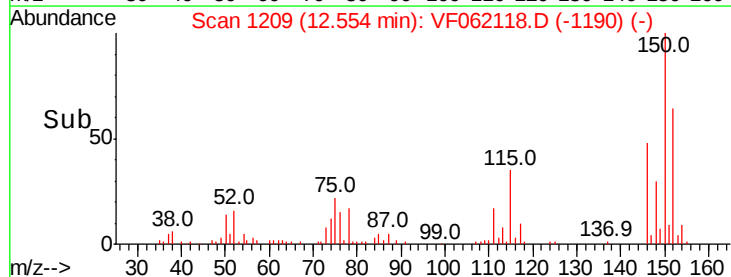
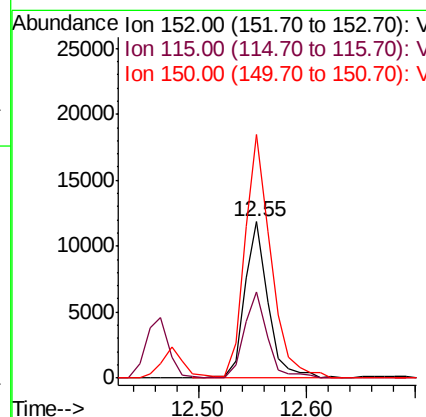
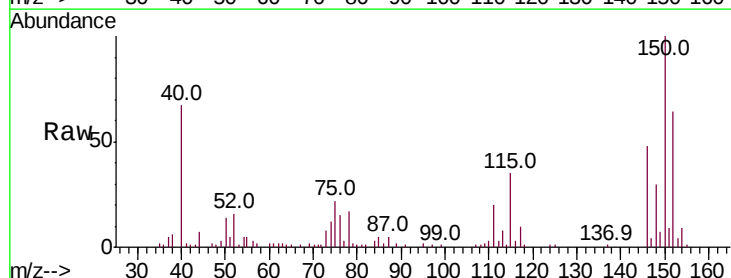
RT: 12.55 min Scan# 1209

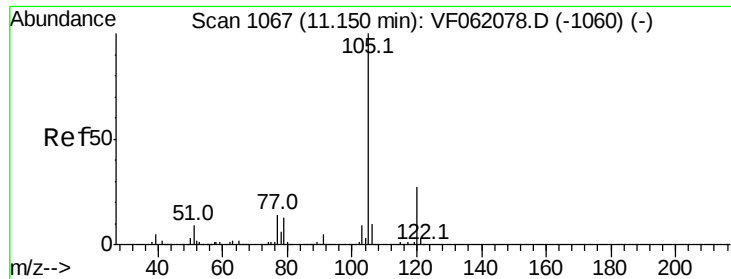
Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion:	152	Resp:	17767
Ion Ratio	Lower	Upper	
152	100		
115	55.4	27.7	83.1
150	156.1	0.0	313.2





#73

Isopropylbenzene

Concen: 97.695 ug/l

RT: 11.12 min Scan# 1064

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:105 Resp: 122138

Ion Ratio Lower Upper

105 100

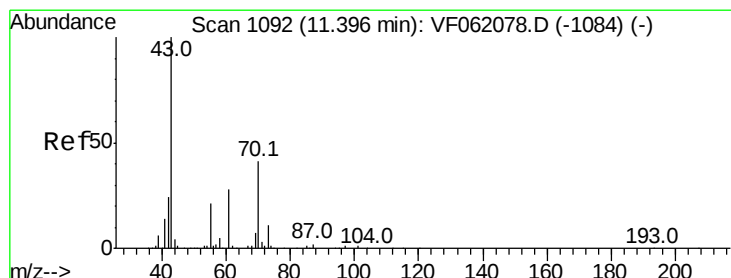
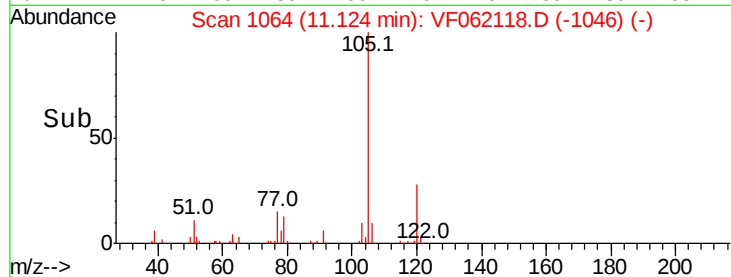
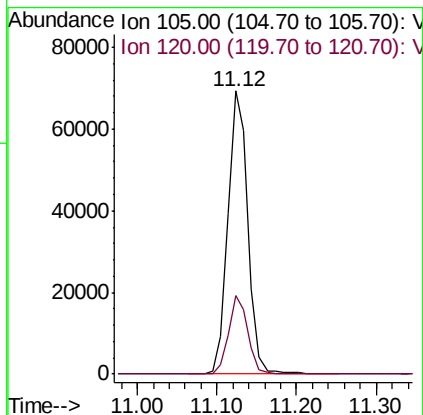
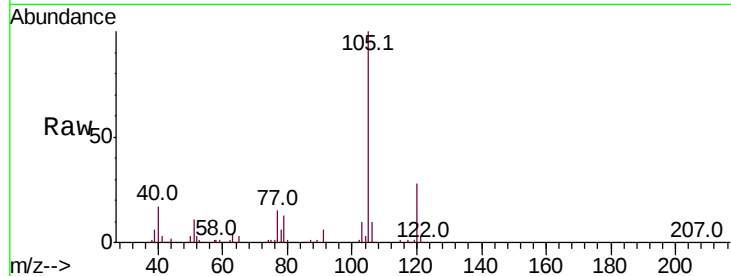
120 27.9 13.8 41.3

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#74

N-ethyl acetate

Concen: 1.645 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion: 43 Resp: 490

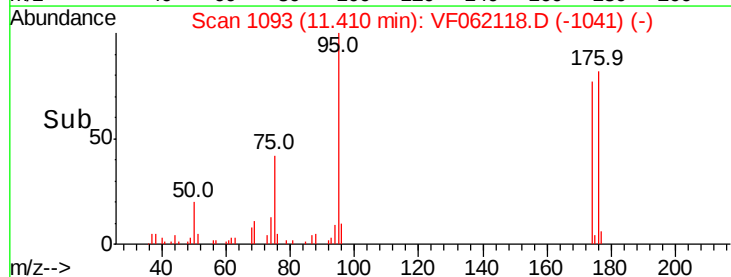
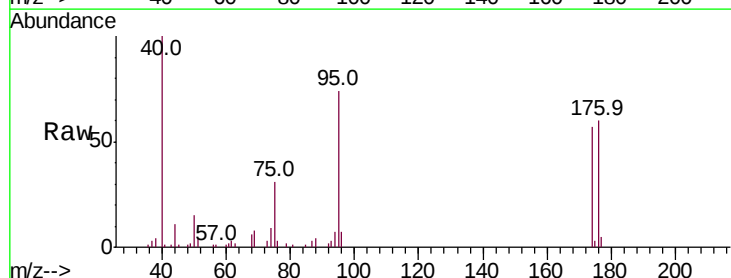
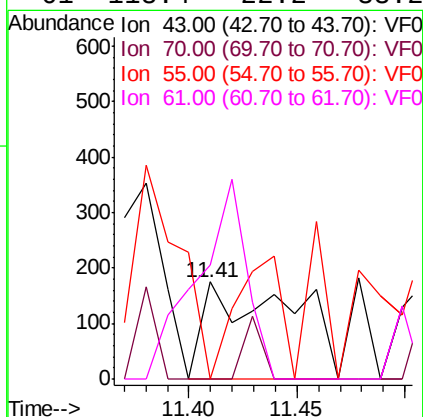
Ion Ratio Lower Upper

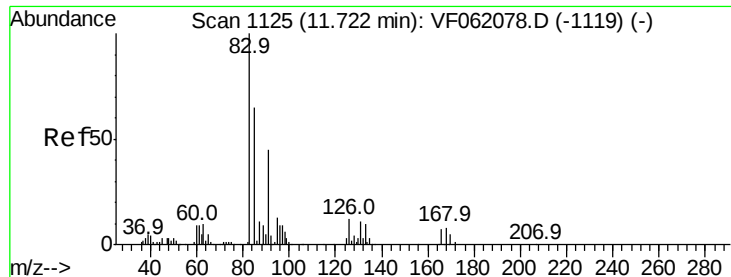
43 100

70 0.0 32.9 49.3#

55 0.0 17.1 25.7#

61 118.4 22.2 33.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 40.571 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

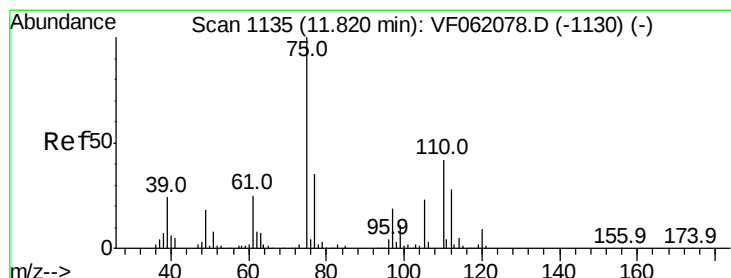
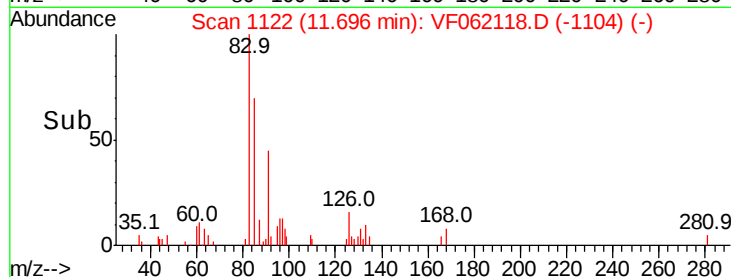
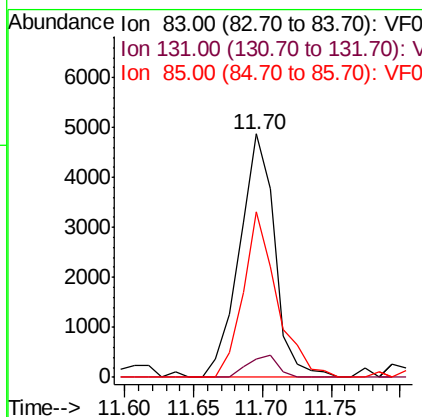
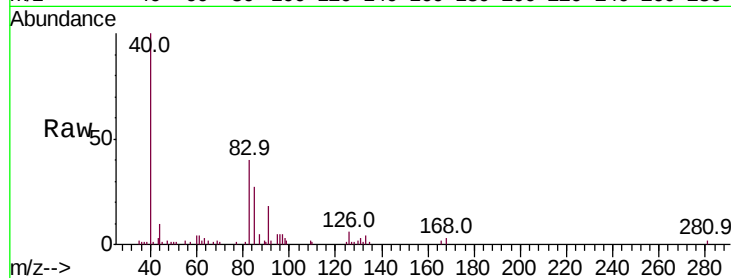
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	83	Resp:	8709
Ion	Ratio	Lower	Upper
83	100		
131	7.6	5.3	15.8
85	68.2	32.6	98.0

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 37.665 ug/l

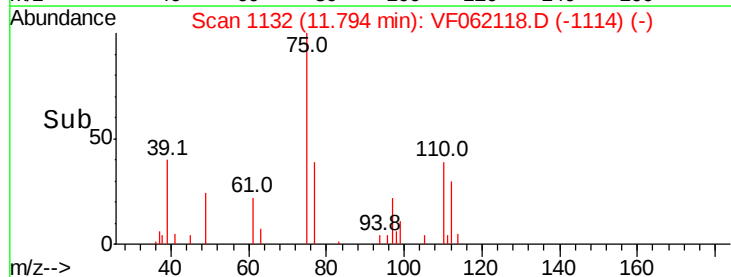
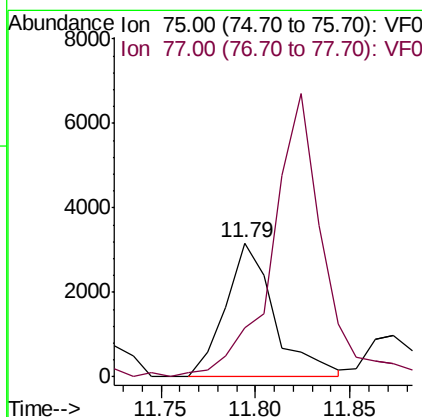
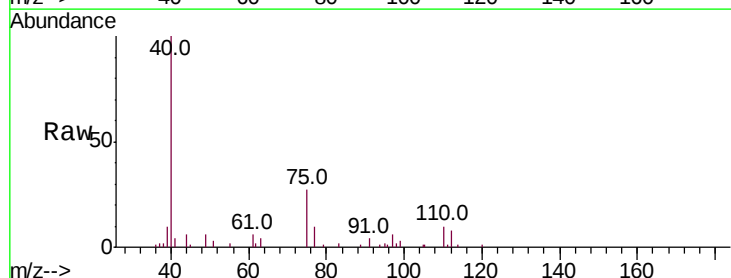
RT: 11.79 min Scan# 1132

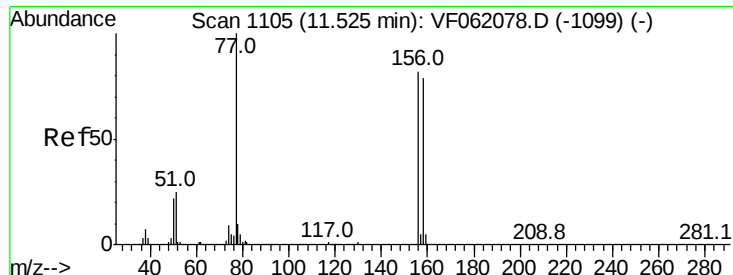
Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion:	75	Resp:	5690
Ion	Ratio	Lower	Upper
75	100		
77	37.2	17.8	53.3





#77

Bromobenzene

Concen: 57.304 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

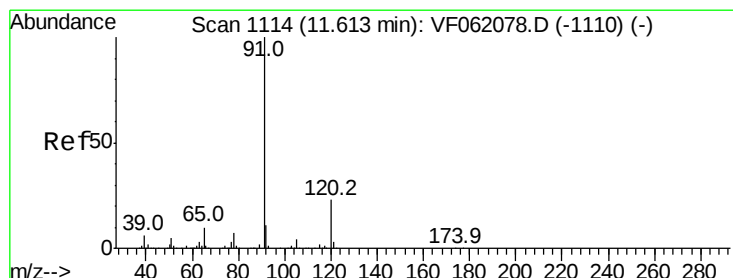
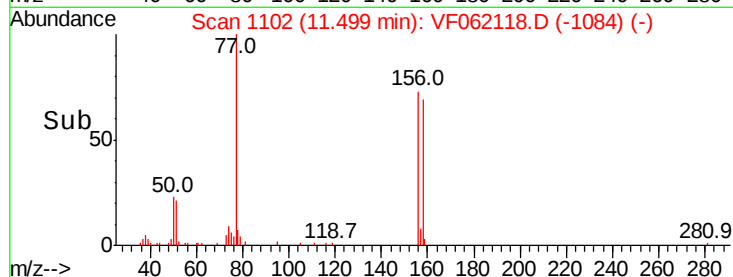
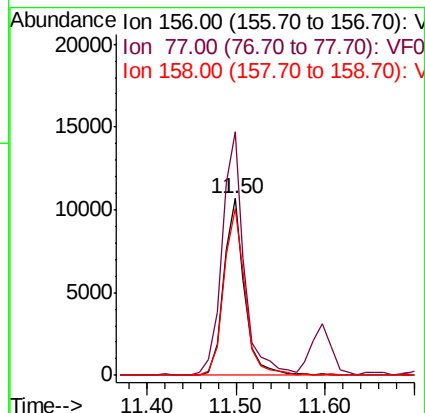
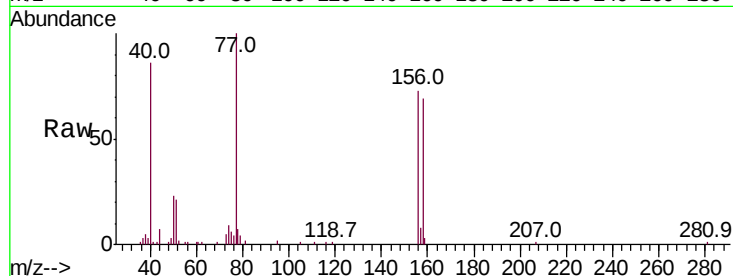
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:156 Resp: 17503
 Ion Ratio Lower Upper
 156 100
 77 137.7 61.3 183.9
 158 94.5 48.6 145.9

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#78

n-propylbenzene

Concen: 96.308 ug/l

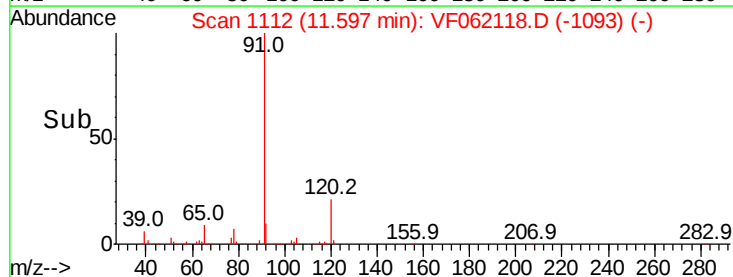
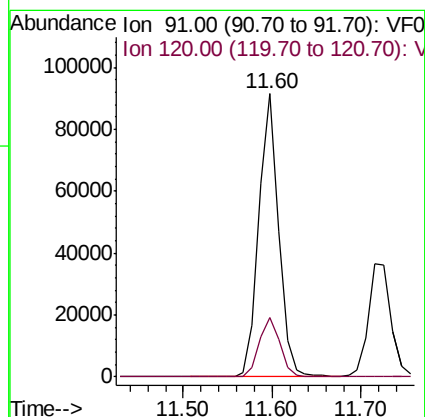
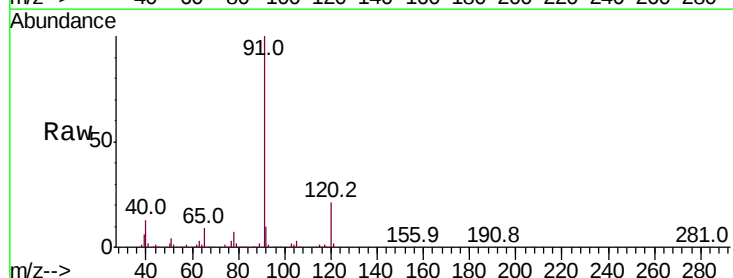
RT: 11.60 min Scan# 1112

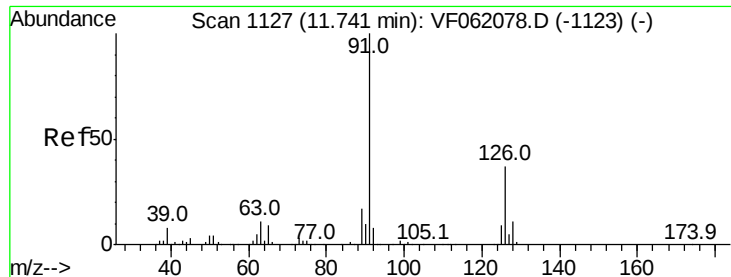
Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion: 91 Resp: 139811
 Ion Ratio Lower Upper
 91 100
 120 20.9 11.3 33.8





#79

2-Chlorotoluene

Concen: 78.738 ug/l

RT: 11.72 min Scan# 1124

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 91 Resp: 63533

Ion Ratio Lower Upper

91 100

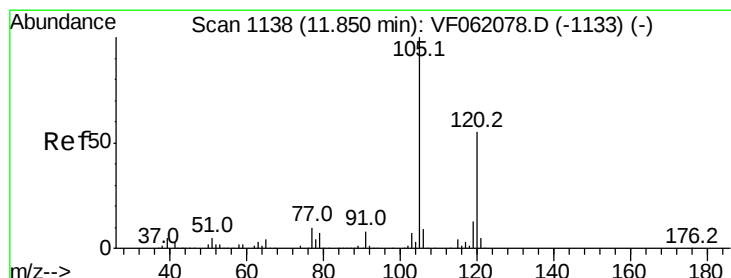
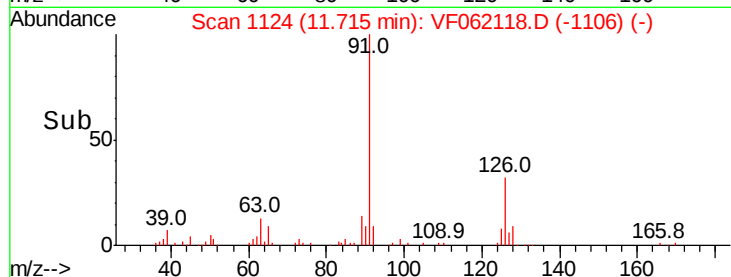
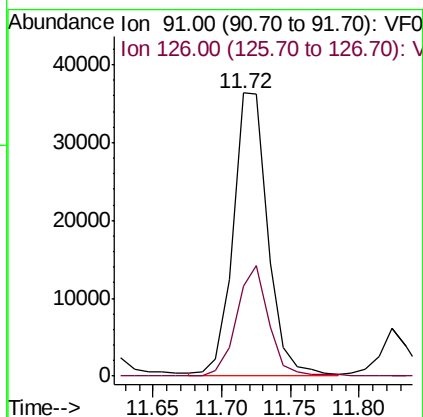
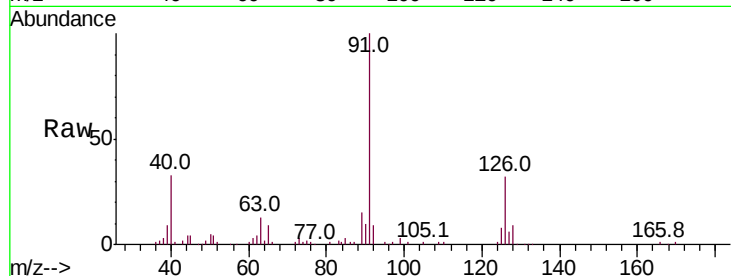
126 31.8 18.3 54.8

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 79.280 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF062118.D

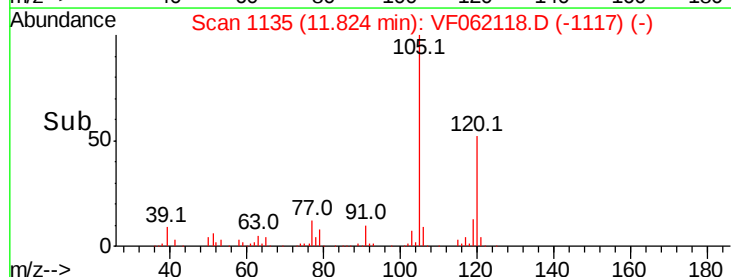
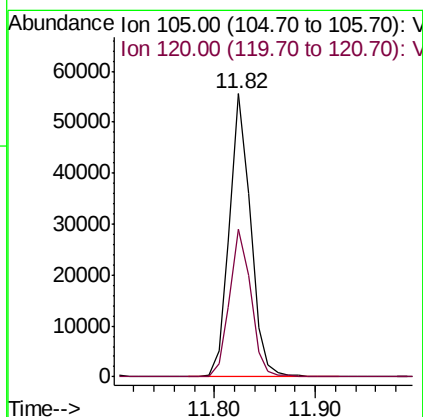
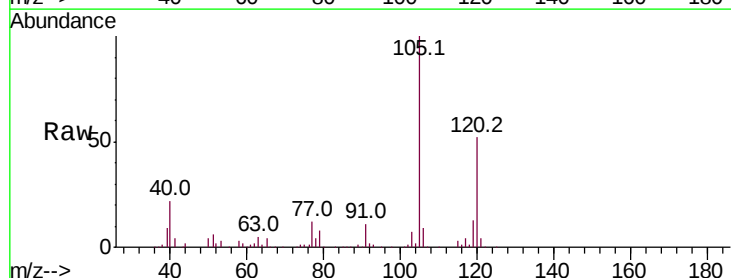
Acq: 23 Mar 2019 15:39

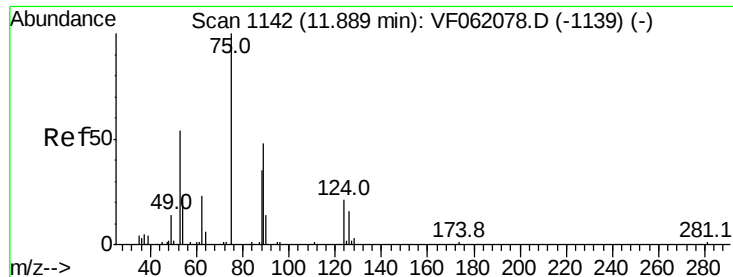
Tgt Ion: 105 Resp: 81527

Ion Ratio Lower Upper

105 100

120 52.1 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 25.651 ug/l m

RT: 11.87 min Scan# 1140

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

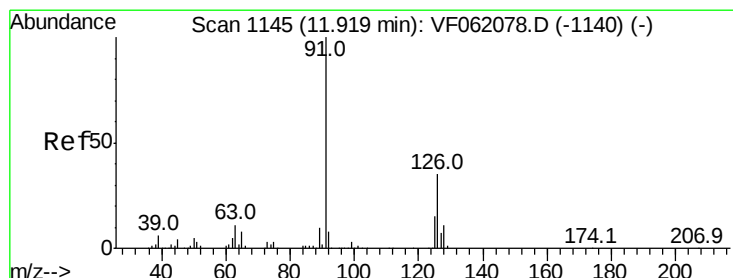
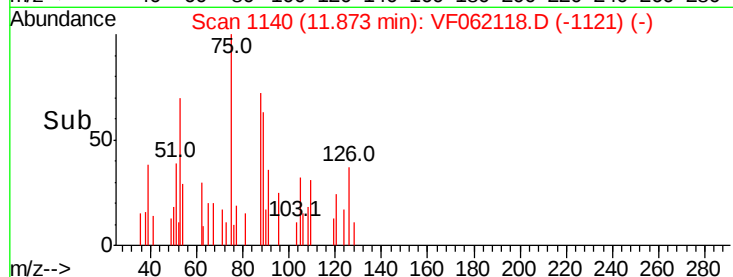
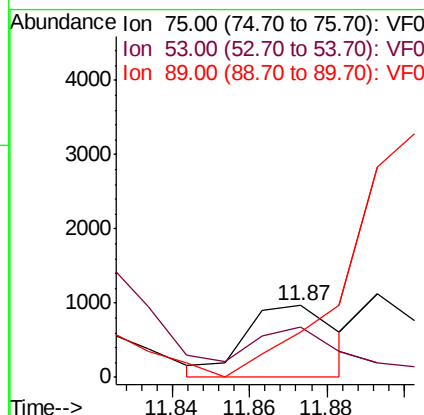
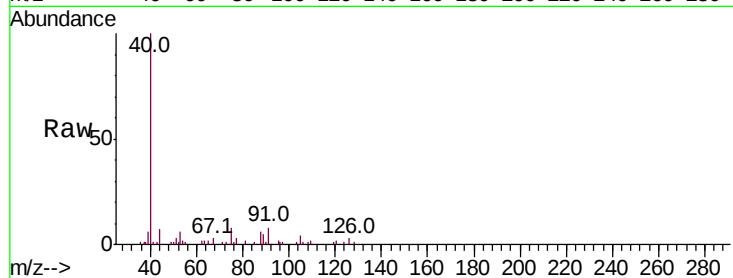
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	75	Resp:	1579
Ion	Ratio	Lower	Upper
75	100		
53	69.6	49.4	74.0
89	62.8	40.6	60.8#

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#82

4-Chlorotoluene

Concen: 69.948 ug/l

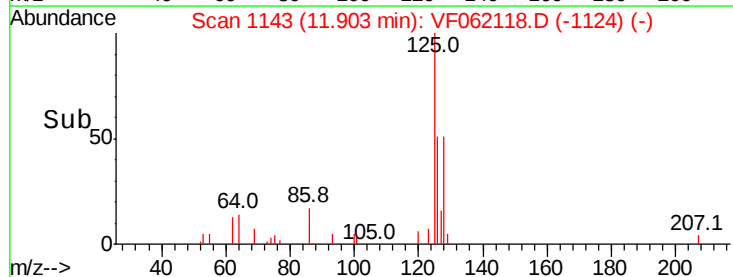
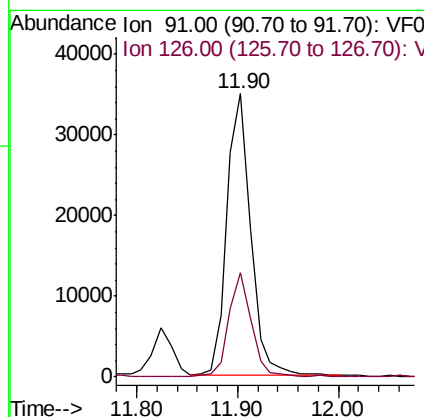
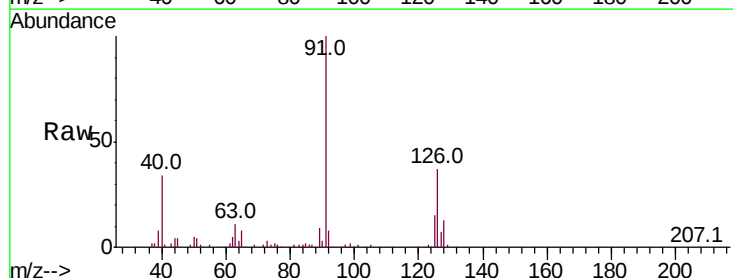
RT: 11.90 min Scan# 1143

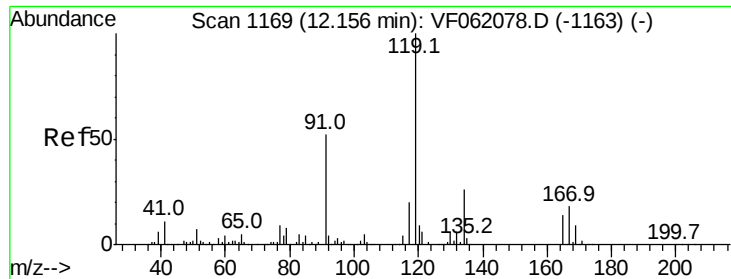
Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion:	91	Resp:	57870
Ion	Ratio	Lower	Upper
91	100		
126	36.7	17.2	51.6





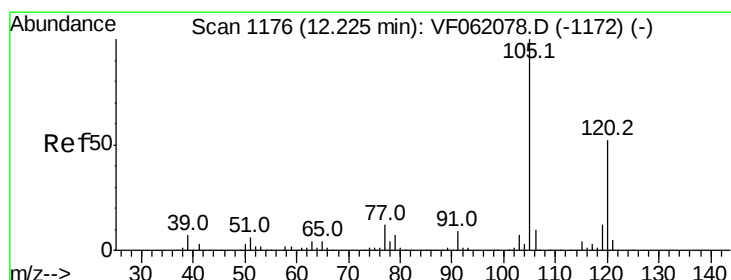
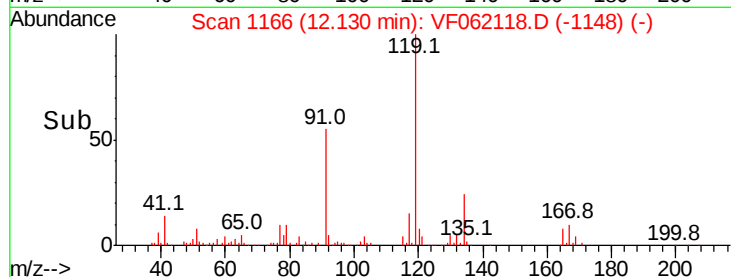
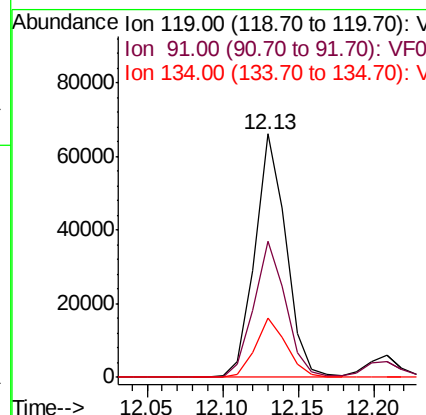
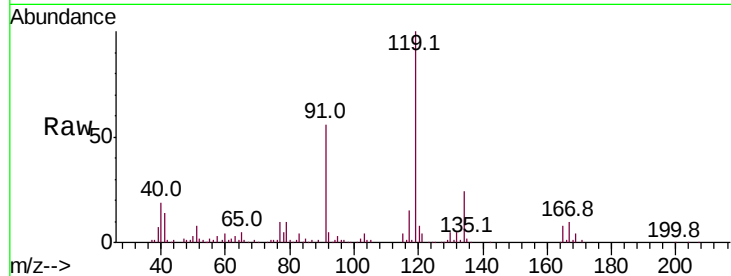
#83
tert-Butylbenzene
Concen: 88.578 ug/l
RT: 12.13 min Scan# 1166
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
119	100			
91	55.9	26.1	78.2	
134	24.1	12.8	38.4	

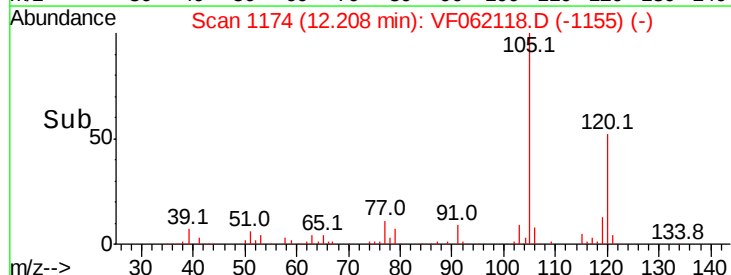
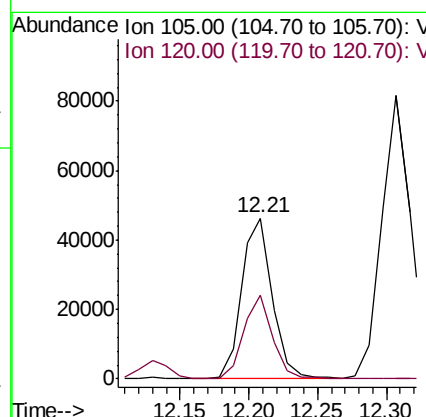
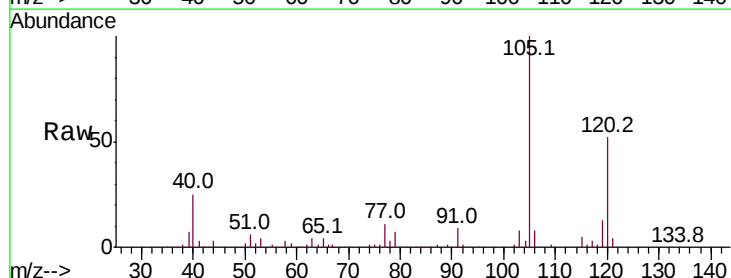
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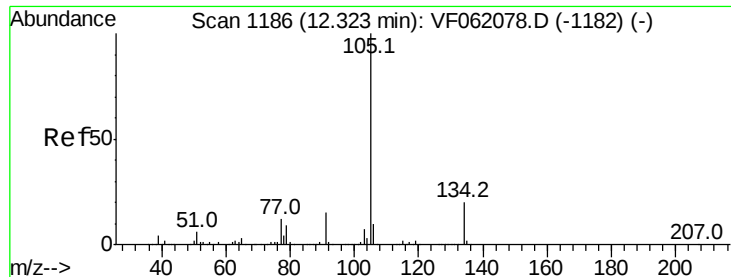
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#84
1,2,4-Trimethylbenzene
Concen: 71.336 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
120	52.2	26.1	78.2	





#85

sec-Butylbenzene

Concen: 86.486 ug/l

RT: 12.31 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:105 Resp: 120441

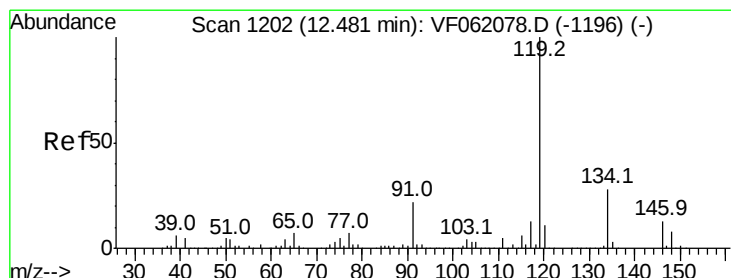
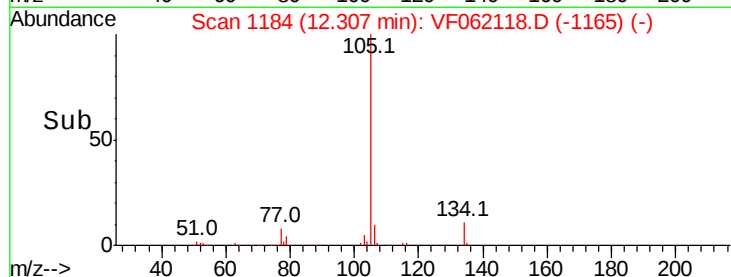
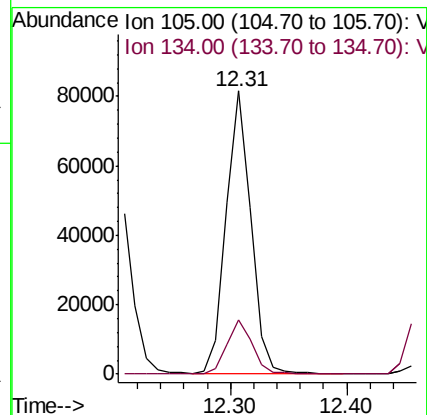
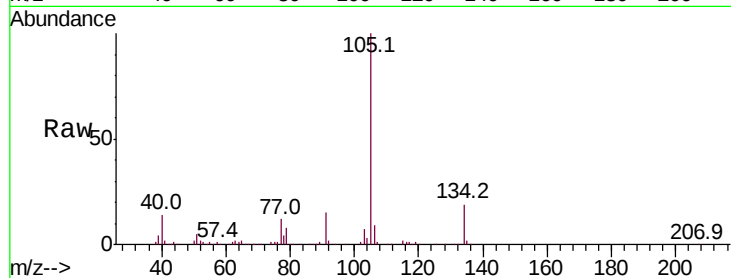
Ion Ratio Lower Upper

105 100

134 19.1 10.2 30.4

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#86

p-Isopropyltoluene

Concen: 83.339 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

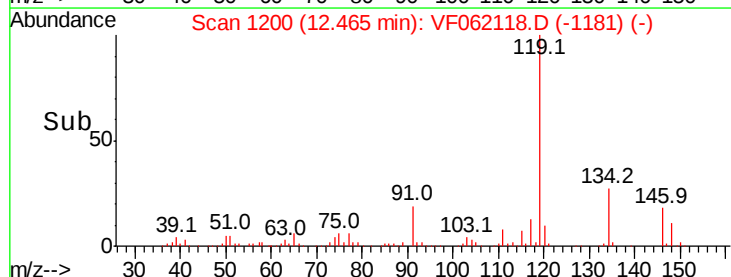
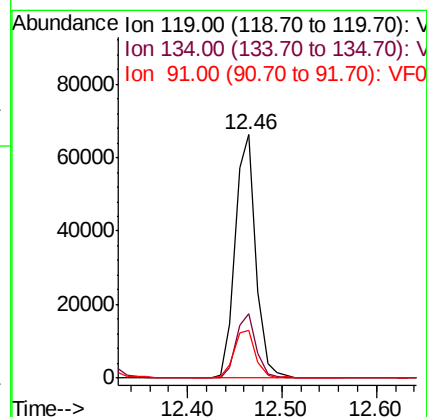
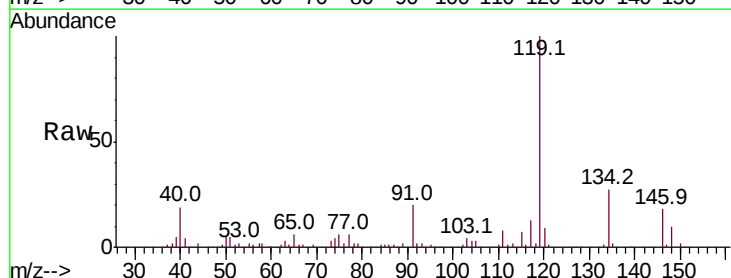
Tgt Ion:119 Resp: 100550

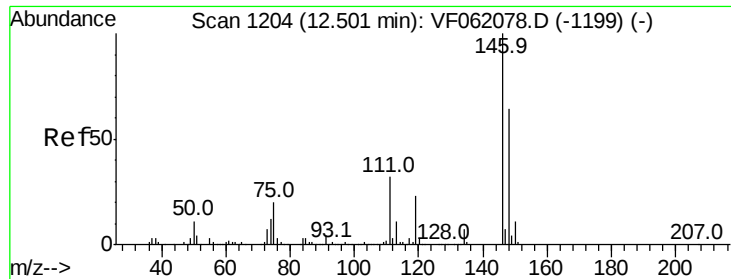
Ion Ratio Lower Upper

119 100

134 26.6 14.0 42.0

91 19.7 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 63.878 ug/l

RT: 12.47 min Scan# 1201

Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

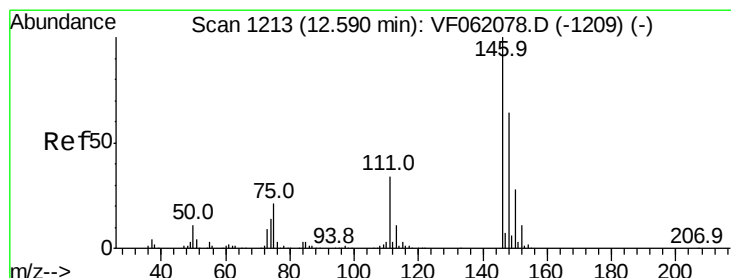
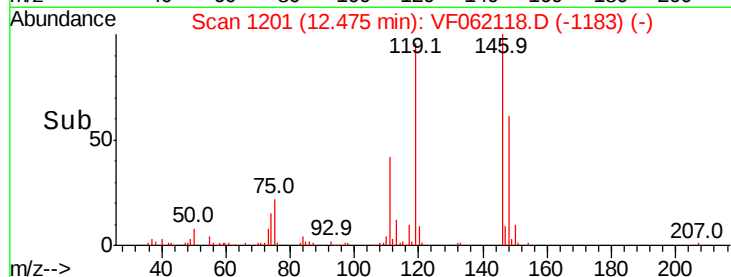
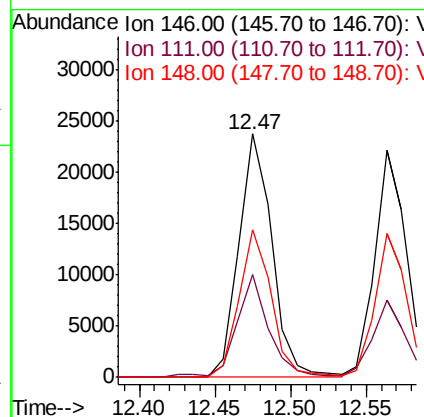
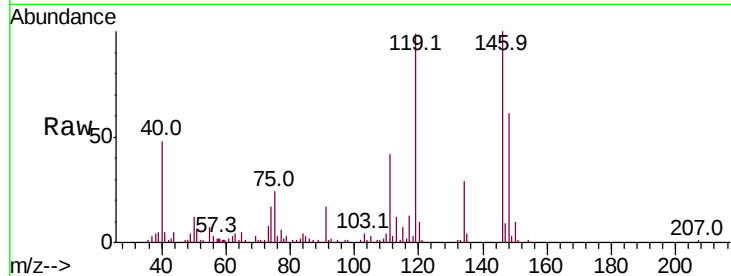
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	146	Resp:	36249
Ion	Ratio	Lower	Upper
146	100		
111	42.5	16.1	48.3
148	60.9	31.9	95.7

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 61.169 ug/l

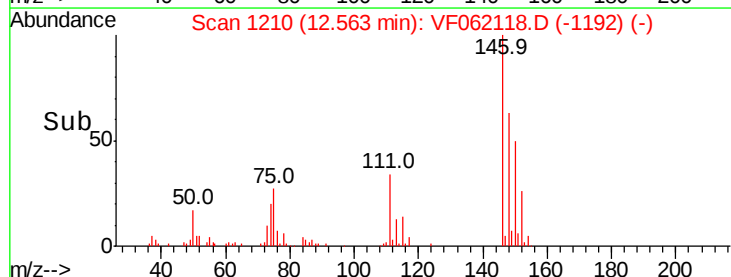
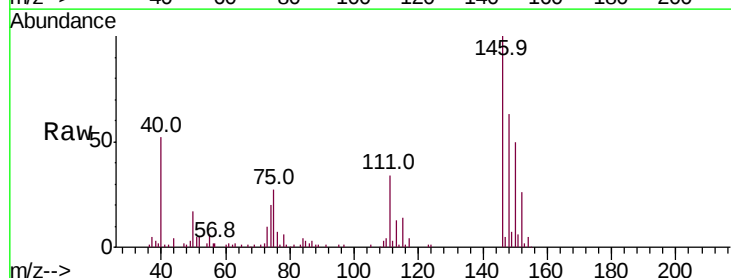
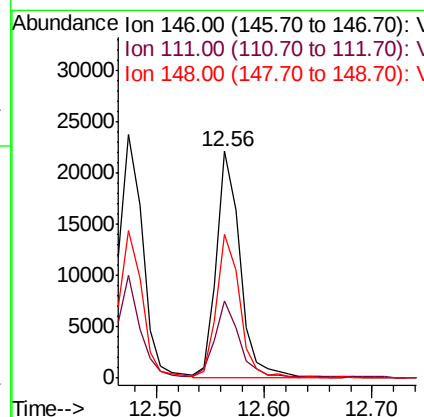
RT: 12.56 min Scan# 1210

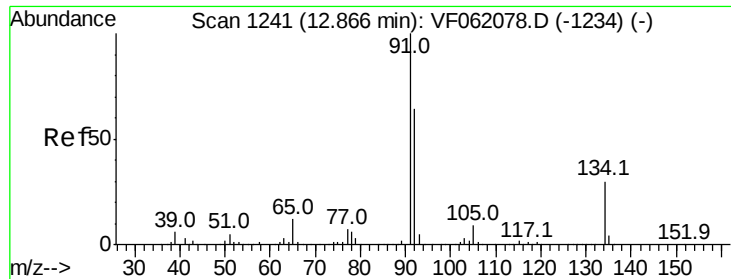
Delta R.T. -0.03 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion:	146	Resp:	33872
Ion	Ratio	Lower	Upper
146	100		
111	34.2	16.9	50.6
148	63.3	31.9	95.7





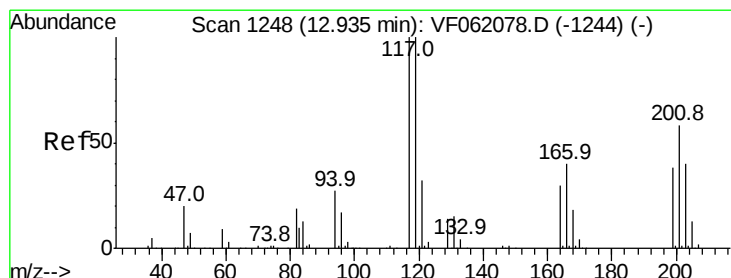
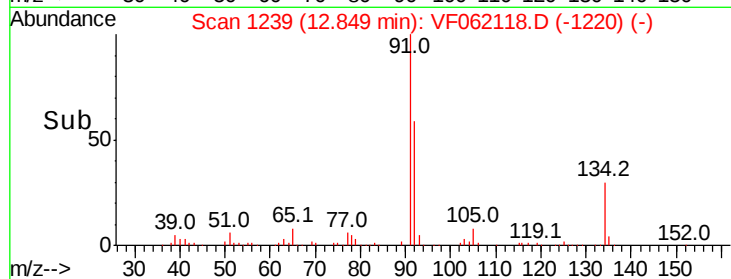
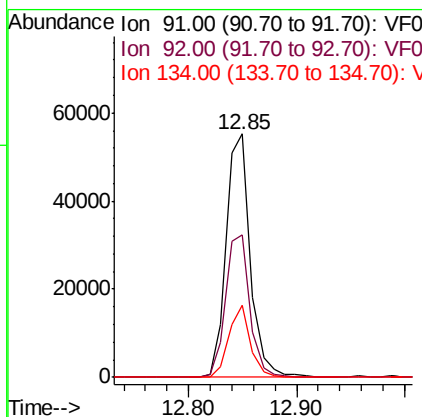
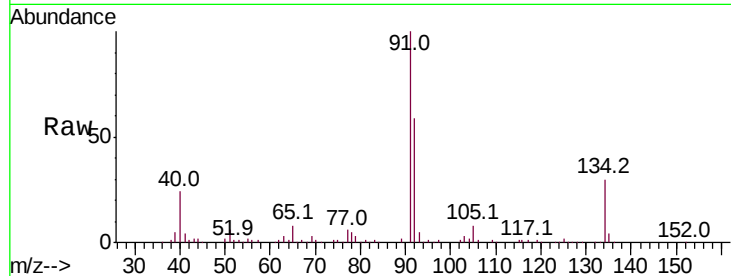
#89
n-Butylbenzene
Concen: 74.854 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion:	91	Resp:	86164
Ion Ratio	Lower	Upper	
91	100		
92	58.8	31.9	95.5
134	29.8	14.9	44.9

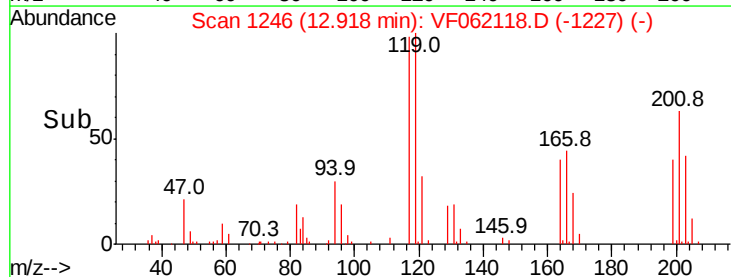
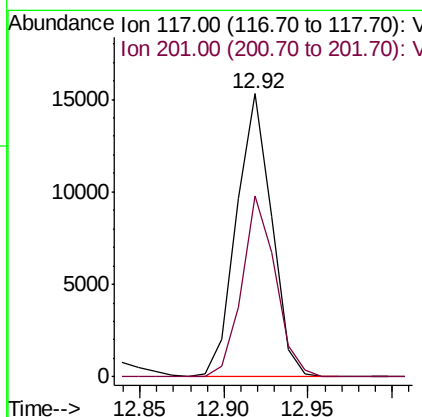
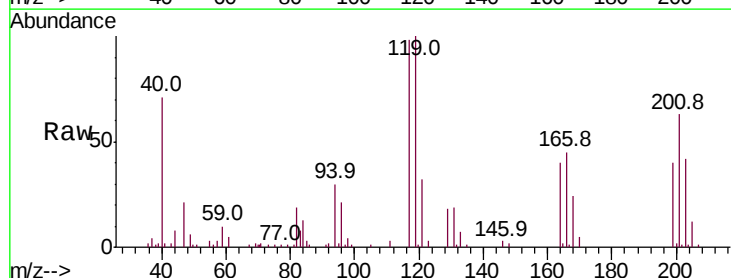
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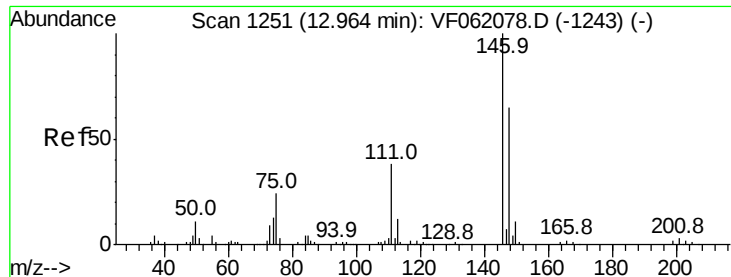
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#90
Hexachloroethane
Concen: 77.222 ug/l
RT: 12.92 min Scan# 1246
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion:	117	Resp:	22185
Ion Ratio	Lower	Upper	
117	100		
201	64.0	28.7	86.1





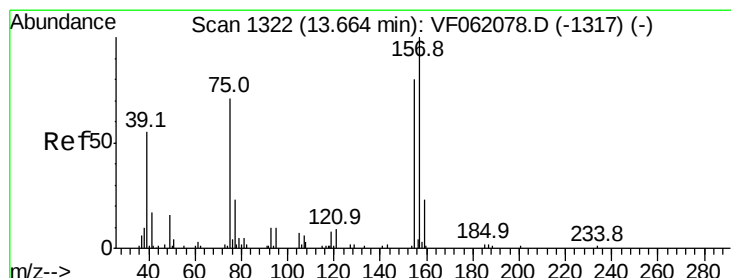
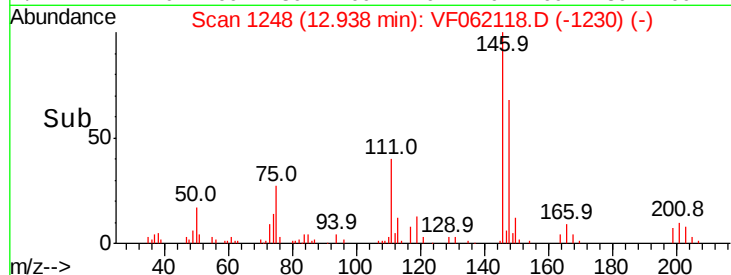
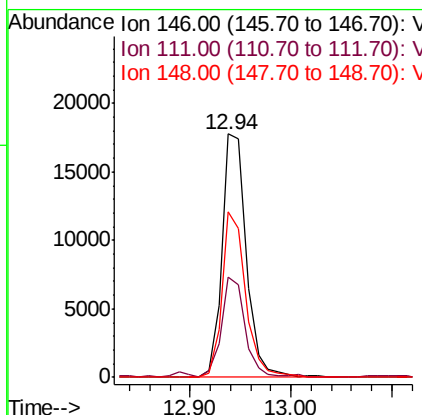
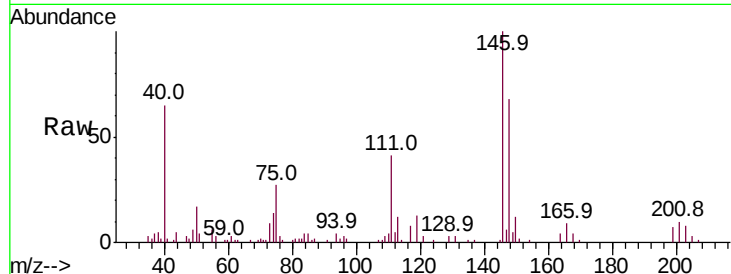
#91
 1,2-Dichlorobenzene
 Concen: 56.043 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.1	57.3
148	68.2	32.8	98.3

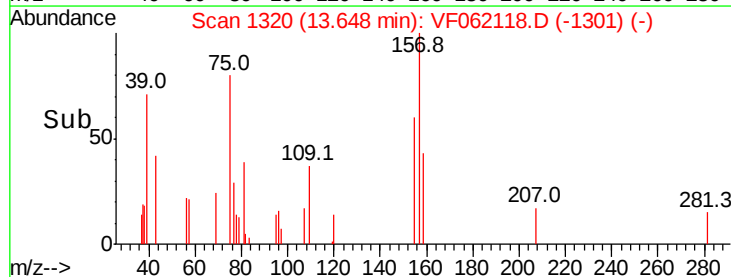
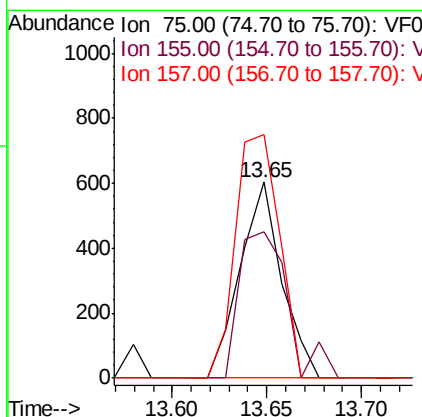
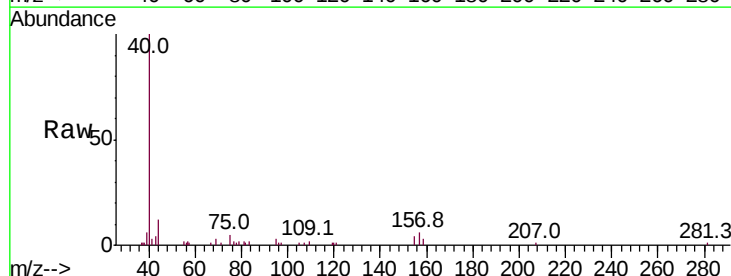
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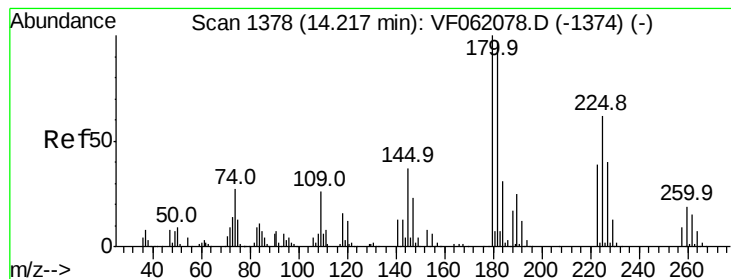
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 28.347 ug/l
 RT: 13.65 min Scan# 1320
 Delta R.T. -0.02 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.0	56.1	168.4
157	124.4	70.4	211.2





#93

1,2,4-Trichlorobenzene

Concen: 23.680 ug/l

RT: 14.20 min Scan# 1376

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:180 Resp: 8794

Ion Ratio Lower Upper

180 100

182 100.8 48.7 146.1

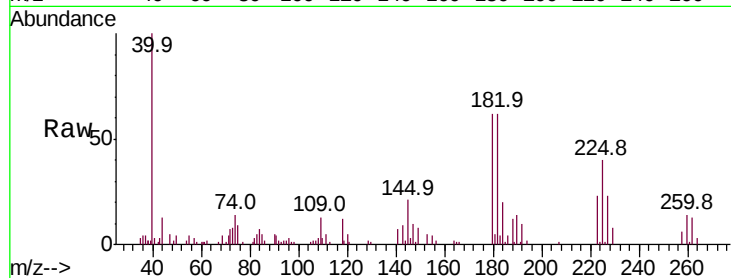
145 34.6 18.3 54.8

Manual Integrations

APPROVED

MMDadoda

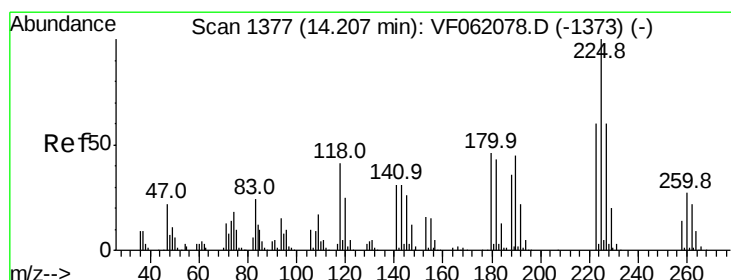
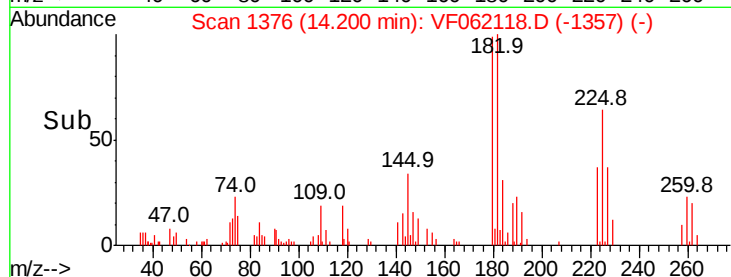
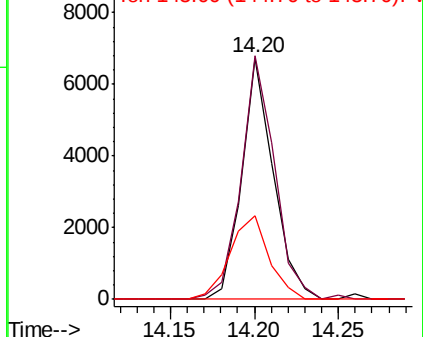
3/25/2019 12:40:38 PM



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: 40.376 ug/l

RT: 14.19 min Scan# 1375

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

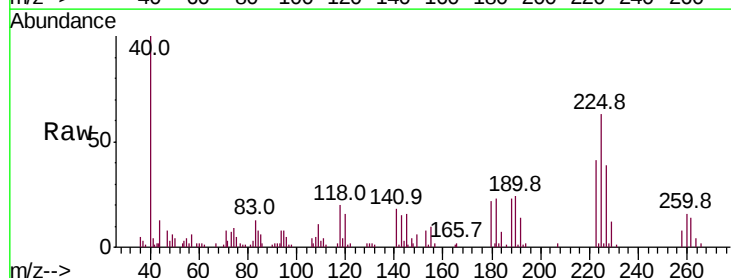
Tgt Ion:225 Resp: 9970

Ion Ratio Lower Upper

225 100

223 65.5 30.0 90.0

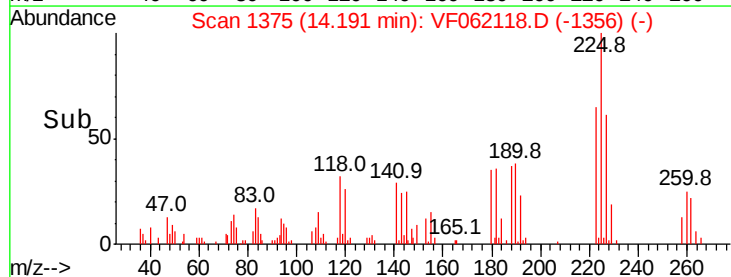
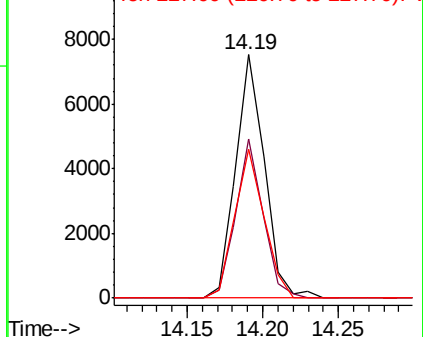
227 61.4 30.2 90.6

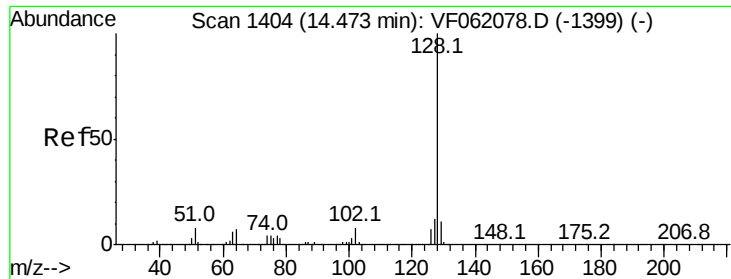


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 9.797 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

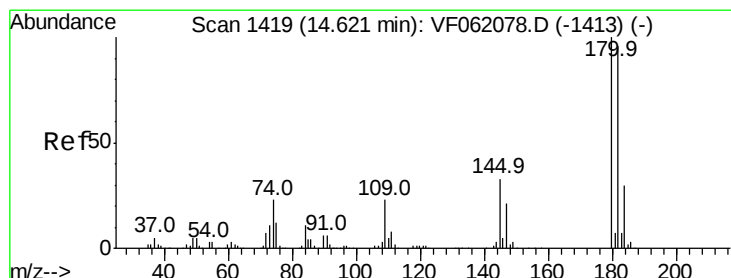
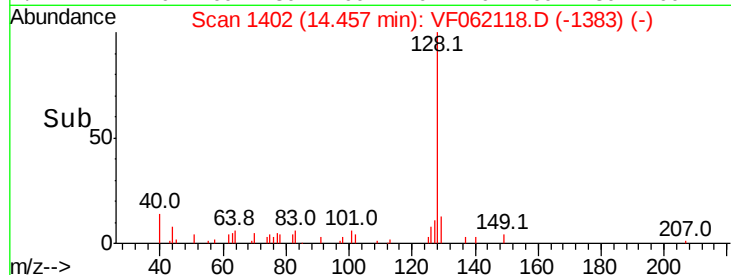
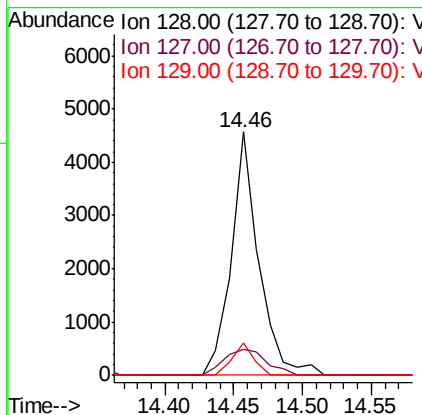
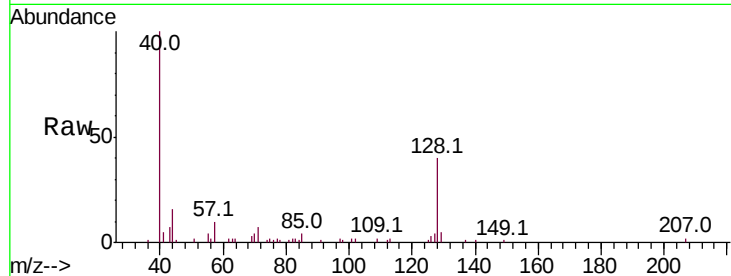
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	128	Resp:	6376
Ion Ratio	Lower	Upper	
128	100		
127	10.9	9.5	14.3
129	13.2	8.7	13.1#

Manual Integrations
APPROVED

MMDadoda
3/25/2019 12:40:38 PM



#96

1,2,3-Trichlorobenzene

Concen: 16.515 ug/l

RT: 14.60 min Scan# 1417

Delta R.T. -0.02 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

Tgt Ion:	180	Resp:	5741
Ion Ratio	Lower	Upper	
180	100		
182	99.4	47.9	143.7
145	28.1	16.6	49.7

