

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

Quant Time: Mar 25 01:28:41 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	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	10830	25.37	ug/l	-0.04
Spiked Amount			Recovery	=	50.74%	
35) Dibromofluoromethane	4.11	113	21018	44.41	ug/l	-0.04
Spiked Amount			Recovery	=	88.82%	
50) Toluene-d8	7.55	98	70526	49.93	ug/l	-0.04
Spiked Amount			Recovery	=	99.86%	
62) 4-Bromofluorobenzene	11.41	95	18493	33.91	ug/l	-0.03
Spiked Amount			Recovery	=	67.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	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	1.88	142	27414	24.602	ug/l	98
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	1207	19.608	ug/l #	86
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

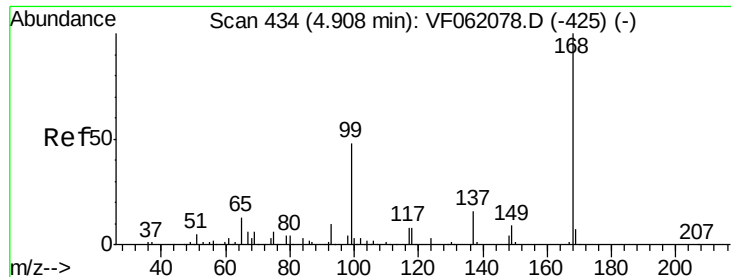
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.20	180	8794	23.680	ug/l	97
94) Hexachlorobutadiene	14.19	225	9970	40.376	ug/l	96
95) Naphthalene	14.46	128	6376	9.797	ug/l #	96
96) 1,2,3-Trichlorobenzene	14.60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

Acq: 23 Mar 2019 15:39

Instrument :

MSVOA_F

ClientSampleId :

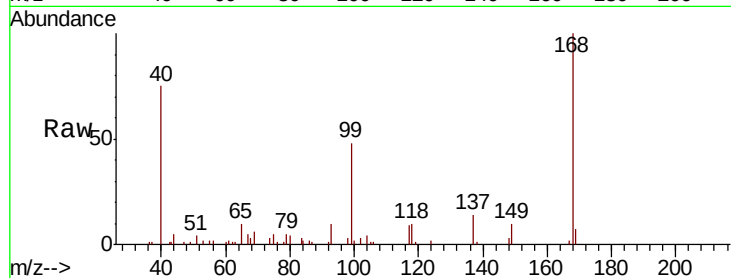
WP022SB439-190318-(13-14)MSD

Tot Ion:168 Resp: 57399

Ion Ratio Lower Upper

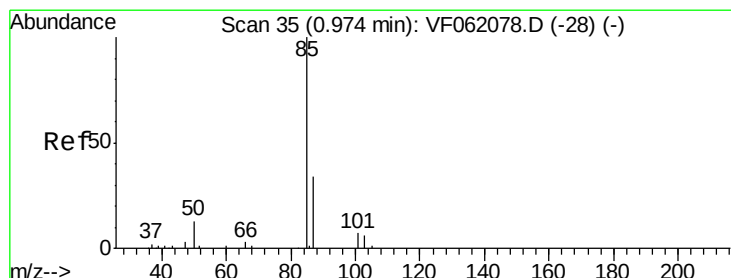
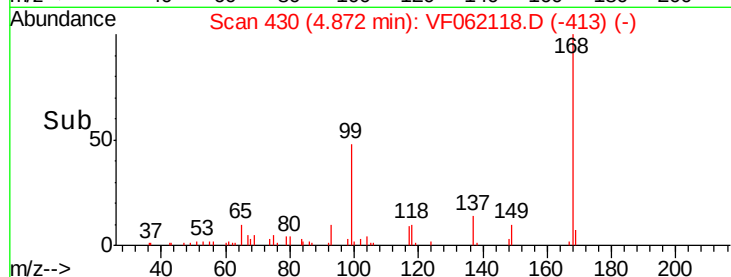
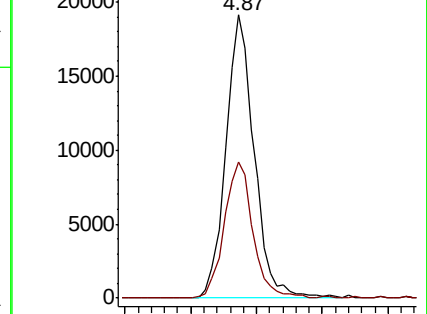
168 100

99 48.1 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: 70.313 ug/l

RT: 0.97 min Scan# 34

Delta R.T. -0.01 min

Lab File: VF062118.D

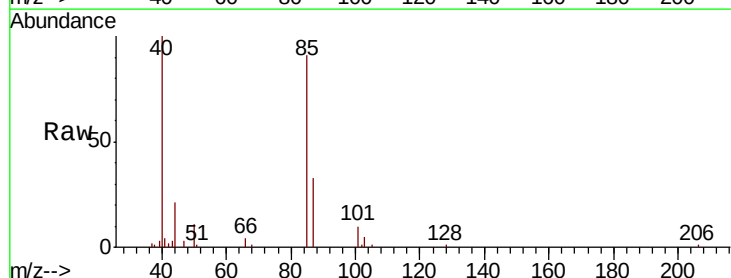
Acq: 23 Mar 2019 15:39

Tgt Ion: 85 Resp: 51703

Ion Ratio Lower Upper

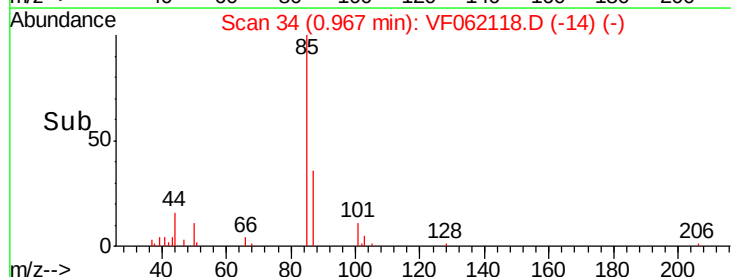
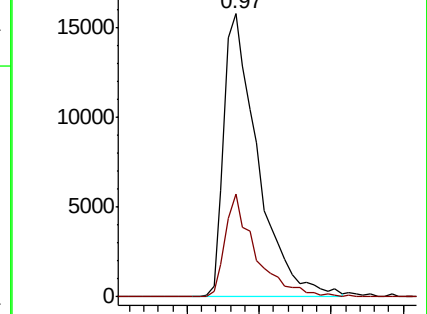
85 100

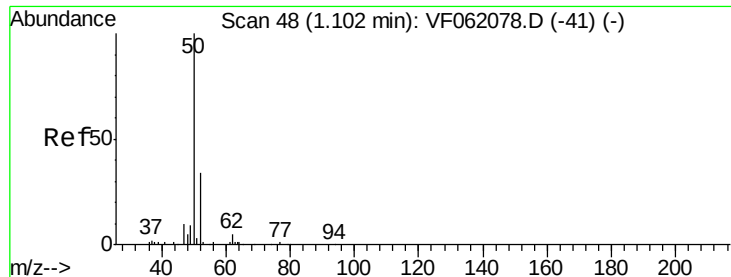
87 36.3 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#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 :

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ClientSampleId :

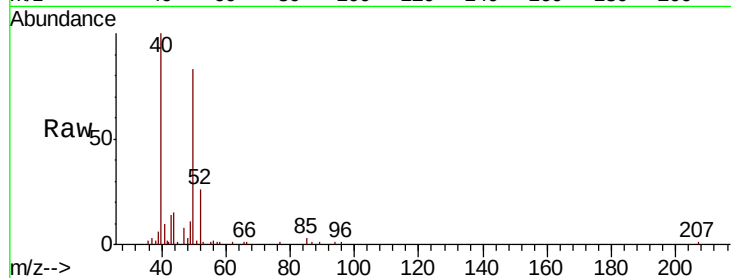
WP022SB439-190318-(13-14)MSD

Tot Ion: 50 Resp: 38000

Ion Ratio Lower Upper

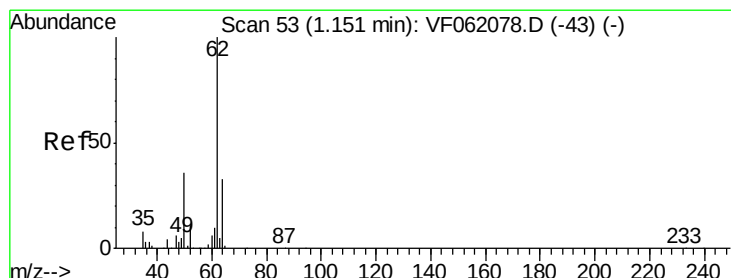
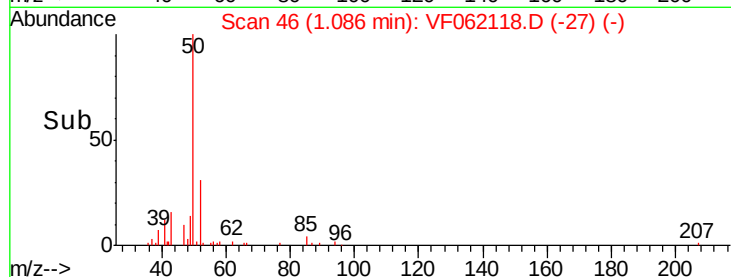
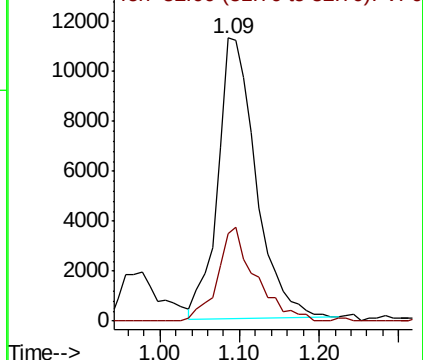
50 100

52 30.8 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 64.260 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.01 min

Lab File: VF062118.D

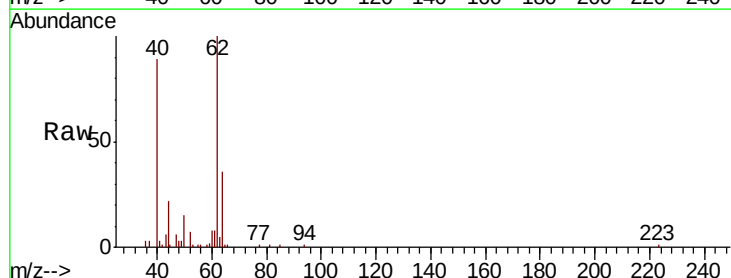
Acq: 23 Mar 2019 15:39

Tgt Ion: 62 Resp: 45733

Ion Ratio Lower Upper

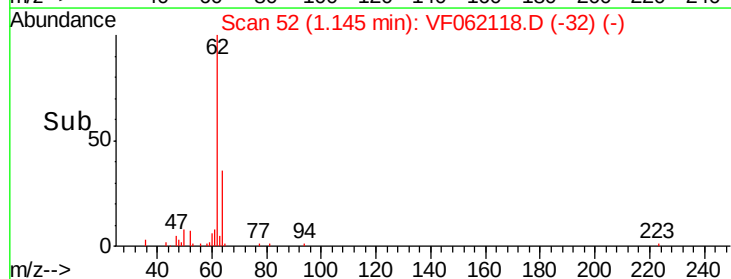
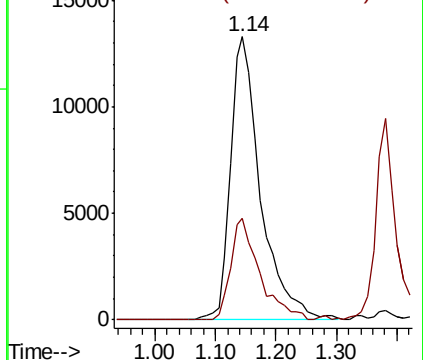
62 100

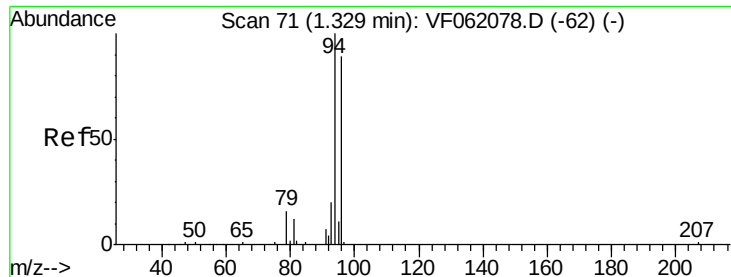
64 35.8 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 58.633 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.02 min

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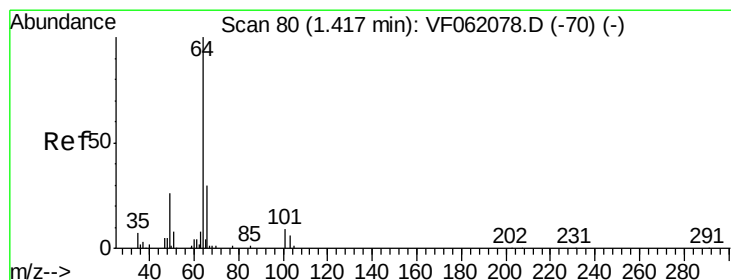
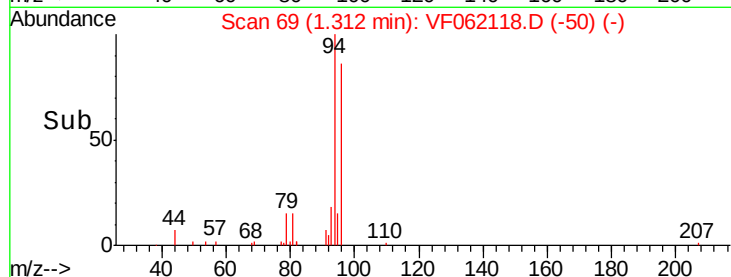
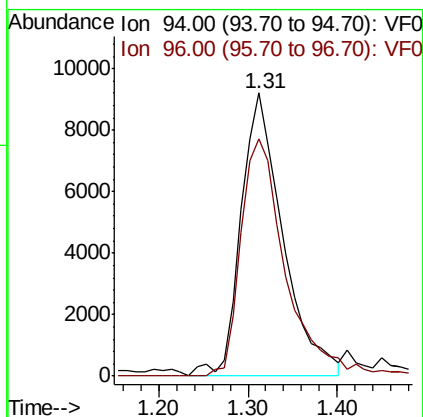
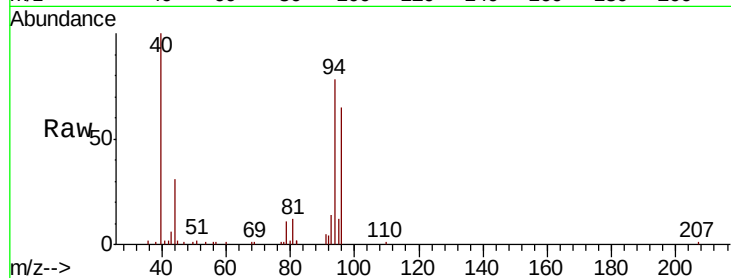
WP022SB439-190318-(13-14)MSD

Tot Ion: 94 Resp: 29996

Ion Ratio Lower Upper

94 100

96 83.7 70.9 106.3



#6

Chloroethane

Concen: 60.112 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.04 min

Lab File: VF062118.D

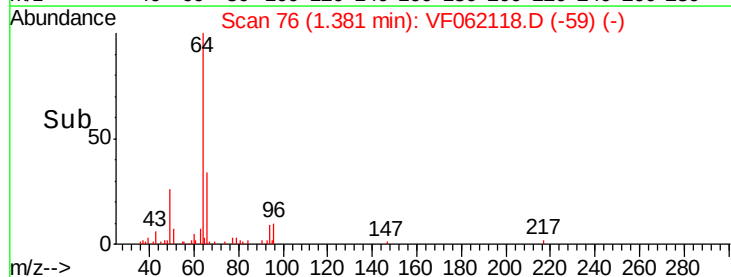
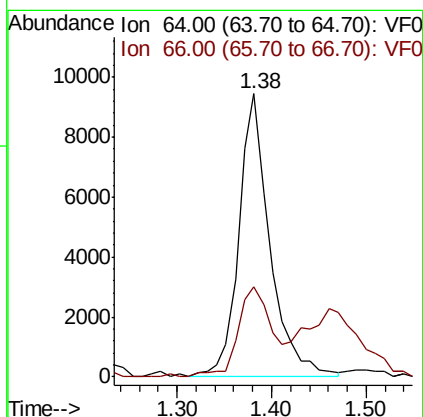
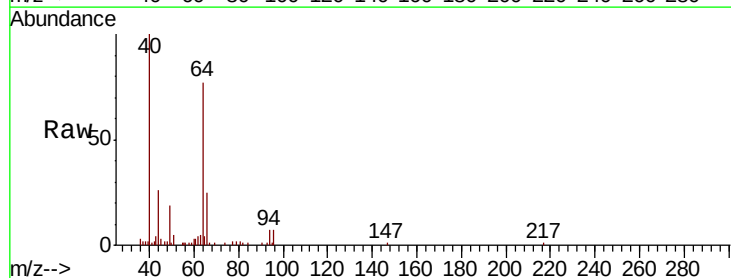
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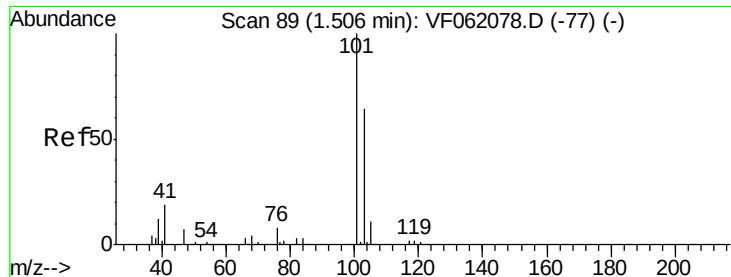
Tgt Ion: 64 Resp: 21536

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

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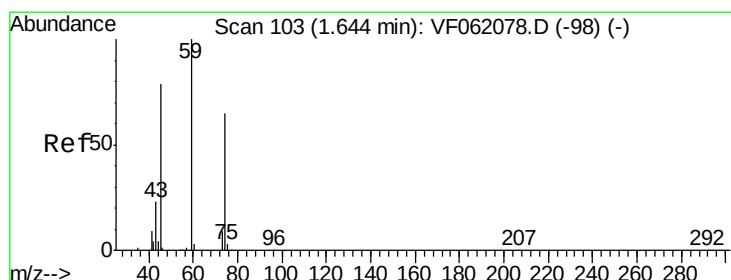
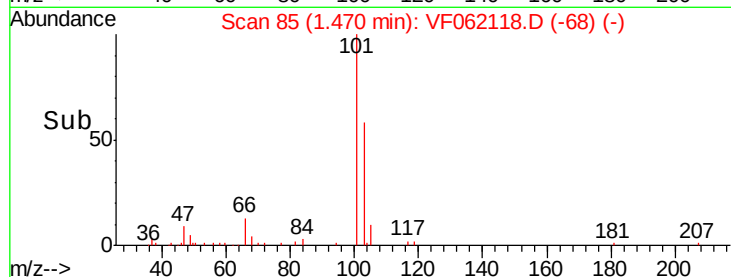
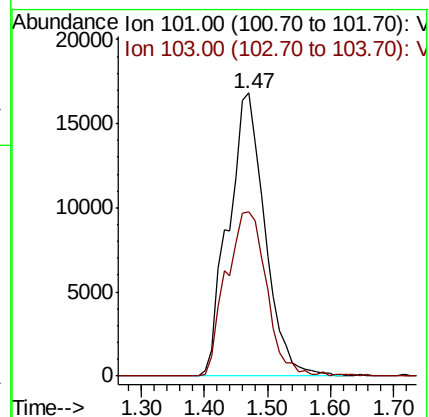
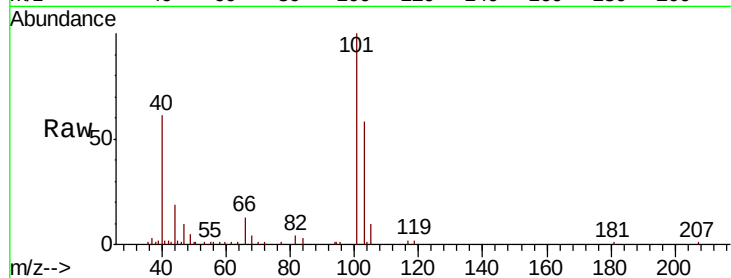
WP022SB439-190318-(13-14)MSD

Tot Ion:101 Resp: 67655

Ion Ratio Lower Upper

101 100

103 58.1 51.5 77.3



#8

Diethyl Ether

Concen: 20.026 ug/l

RT: 1.64 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF062118.D

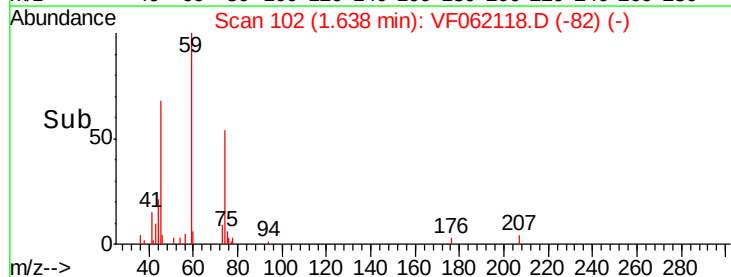
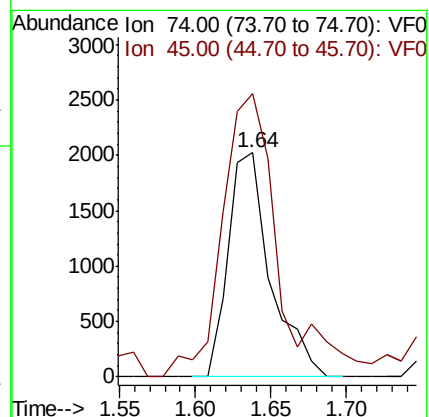
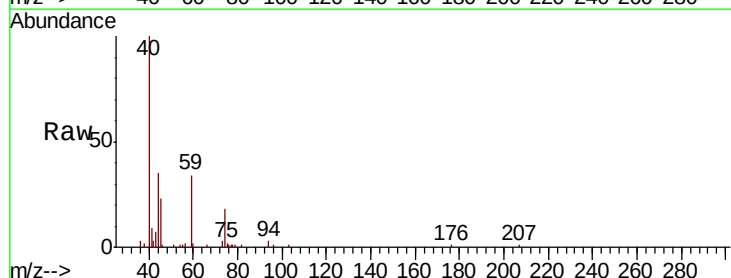
Acq: 23 Mar 2019 15:39

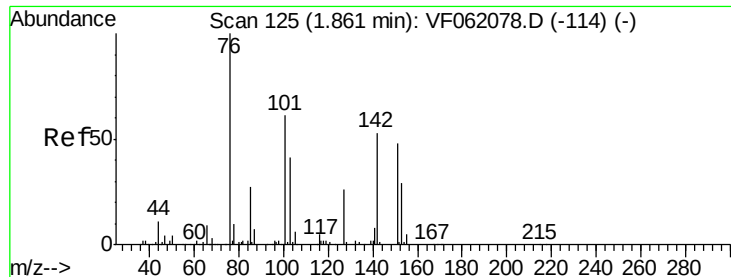
Tgt Ion: 74 Resp: 3932

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

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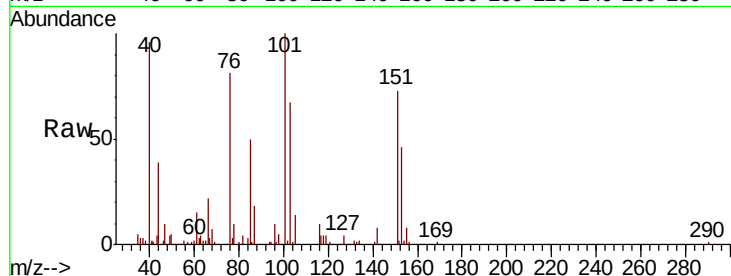
Tot Ion:101 Resp: 42418

Ion Ratio Lower Upper

101 100

85 50.2 34.6 52.0

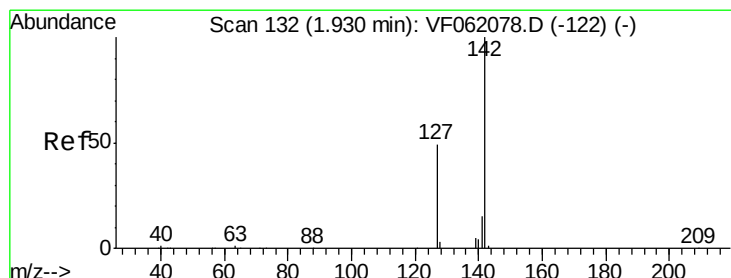
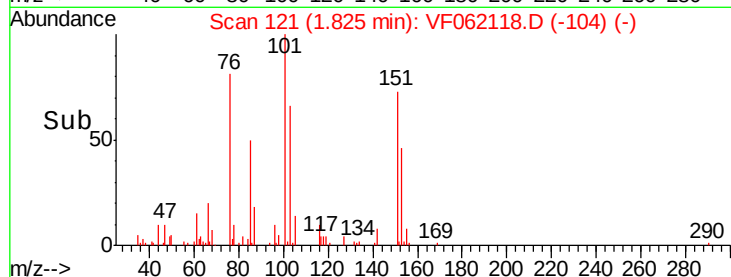
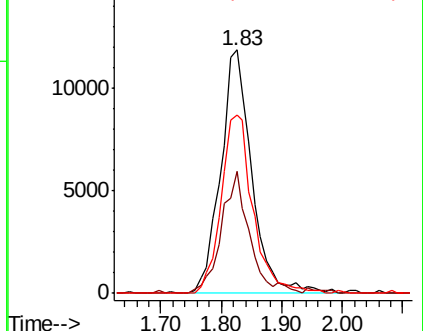
151 73.5 61.7 92.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 24.602 ug/l

RT: 1.88 min Scan# 127

Delta R.T. -0.05 min

Lab File: VF062118.D

Acq: 23 Mar 2019 15:39

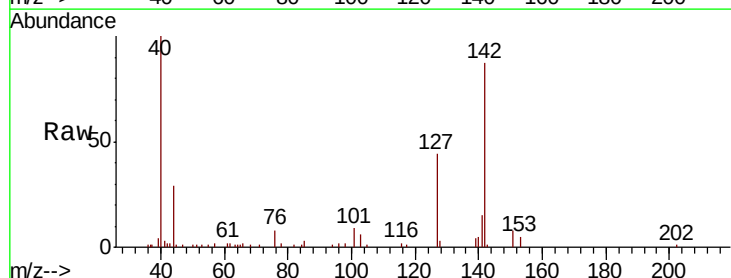
Tgt Ion:142 Resp: 27414

Ion Ratio Lower Upper

142 100

127 50.1 39.1 58.7

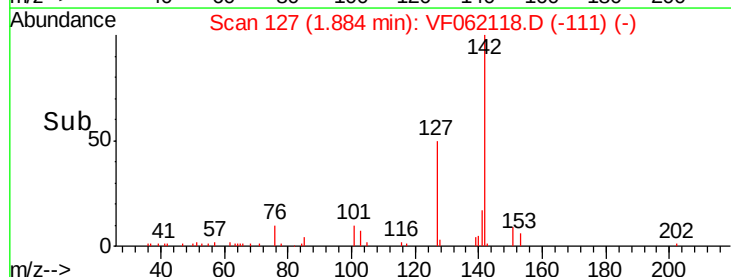
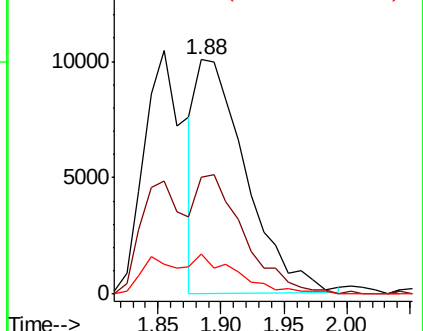
141 17.0 12.2 18.4

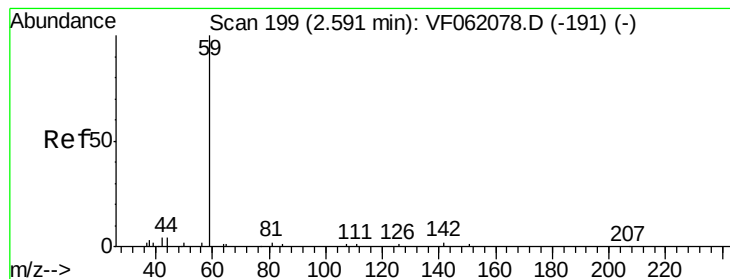


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



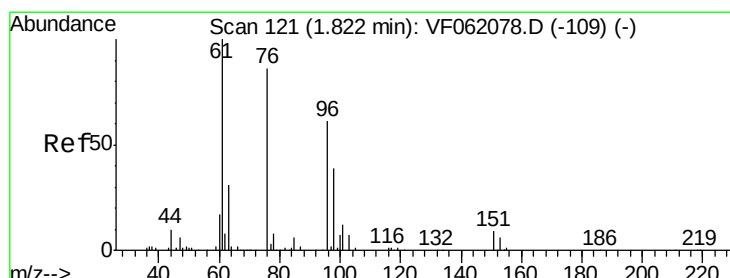
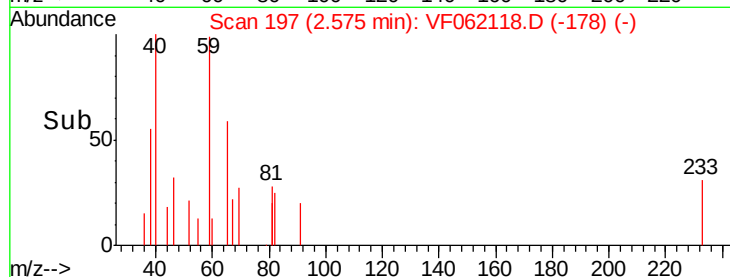
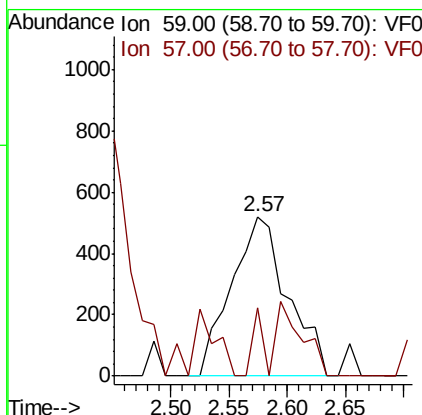
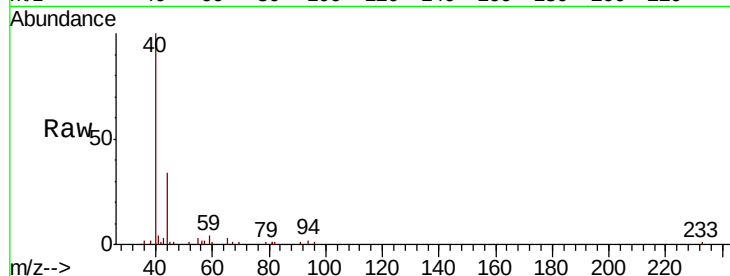


#11

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

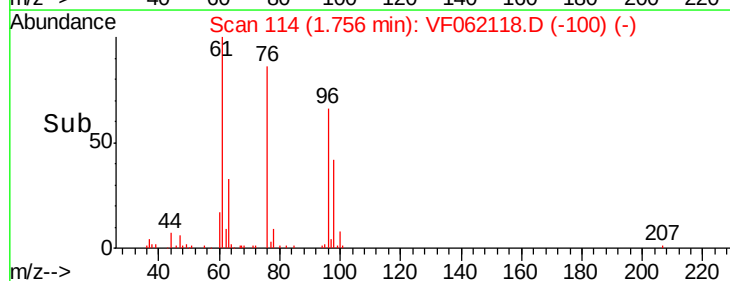
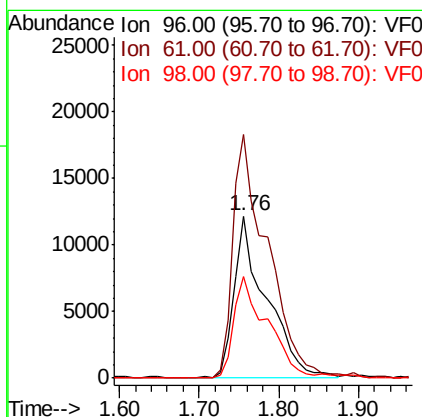
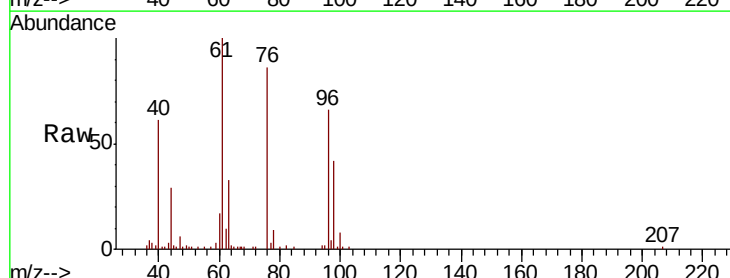
Tot Ion: 59 Resp: 1742
Ion Ratio Lower Upper
59 100
57 42.7 11.0 16.4#

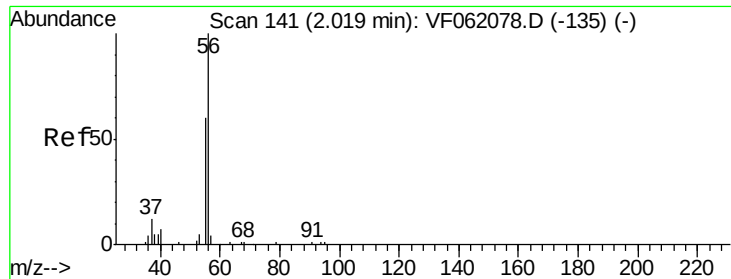


#12

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

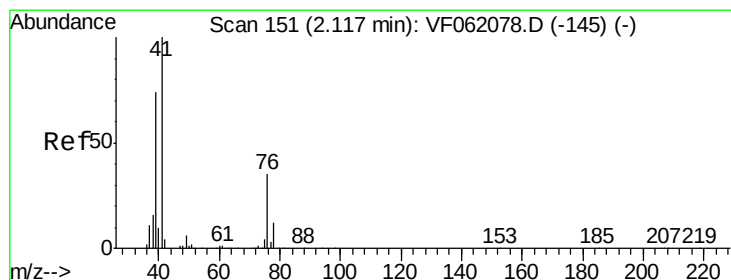
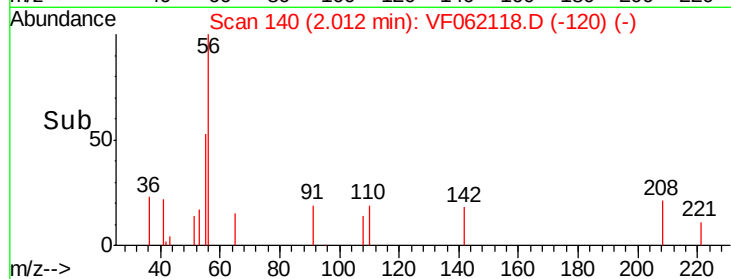
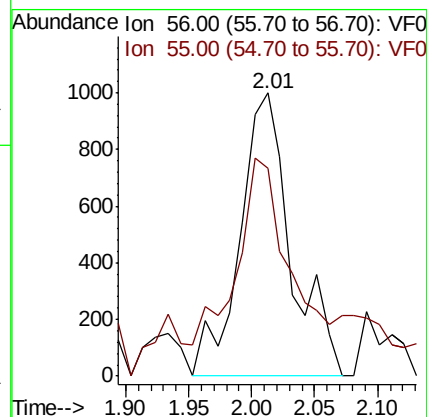
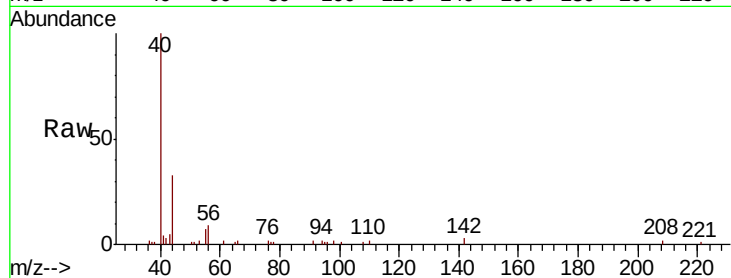




#13
 Acrolein
 Concen: 100.007 ug/l
 RT: 2.01 min Scan# 140
 Delta R.T. -0.01 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

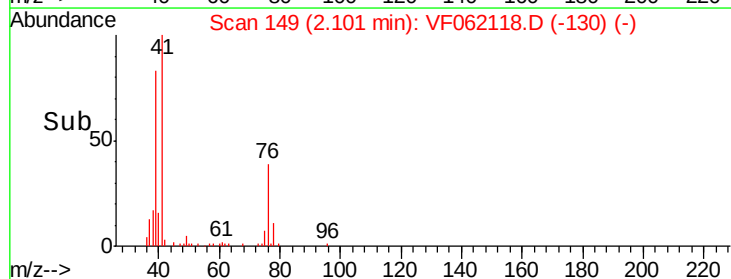
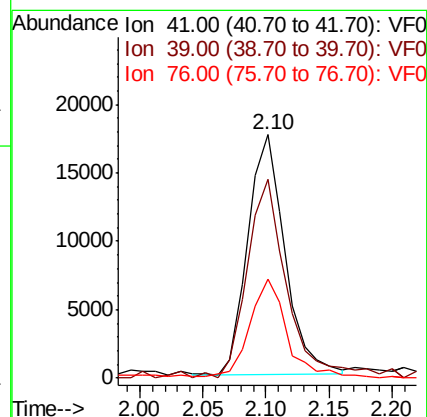
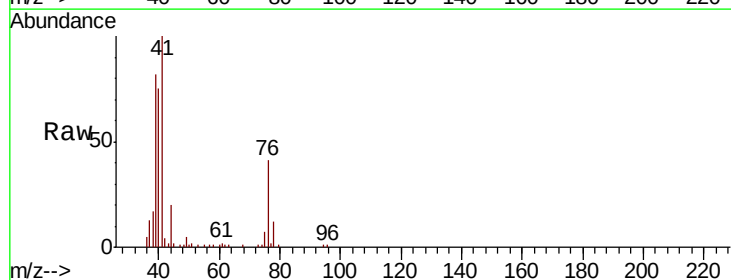
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

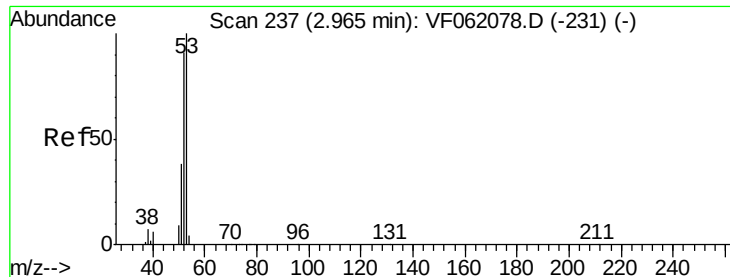
Tot Ion: 56 Resp: 2825
 Ion Ratio Lower Upper
 56 100
 55 73.6 49.0 73.4#



#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

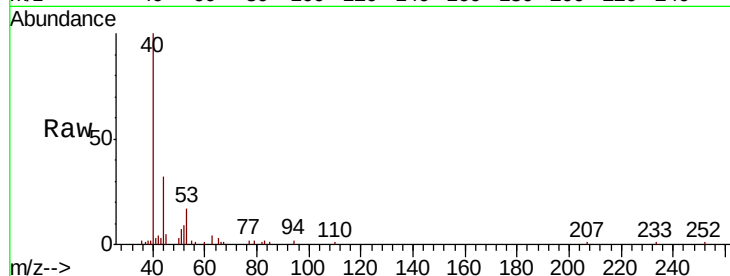
Tot Ion: 53 Resp: 6337

Ion Ratio Lower Upper

53 100

52 54.1 72.3 108.5#

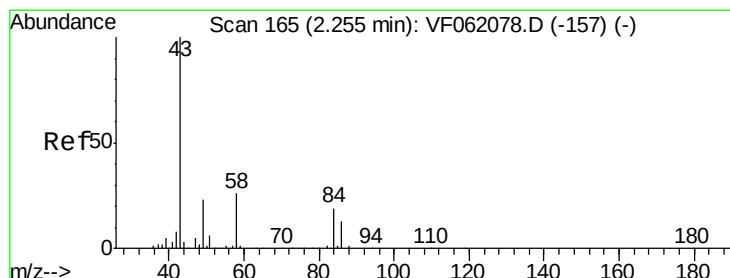
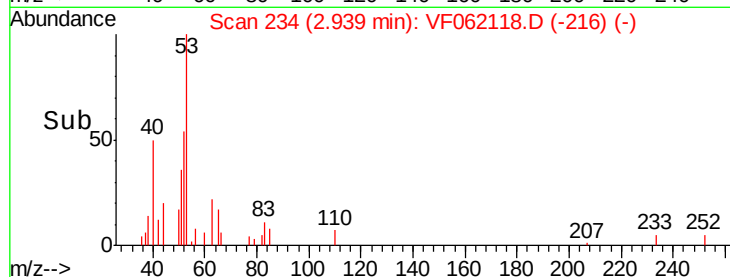
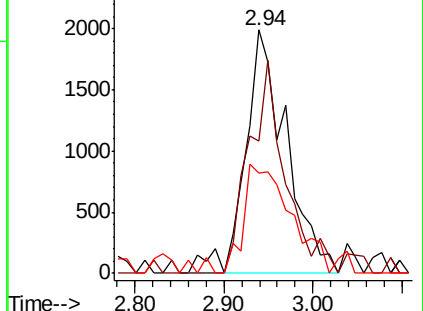
51 41.4 30.4 45.6



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 142.328 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF062118.D

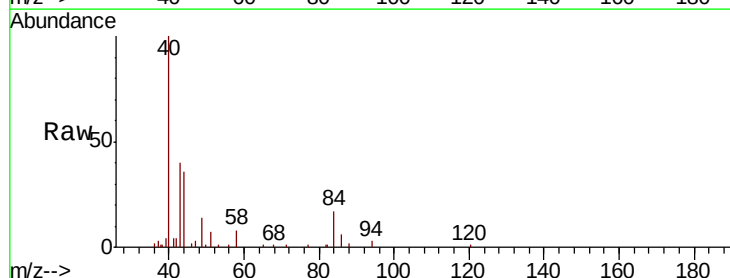
Acq: 23 Mar 2019 15:39

Tgt Ion: 43 Resp: 12789

Ion Ratio Lower Upper

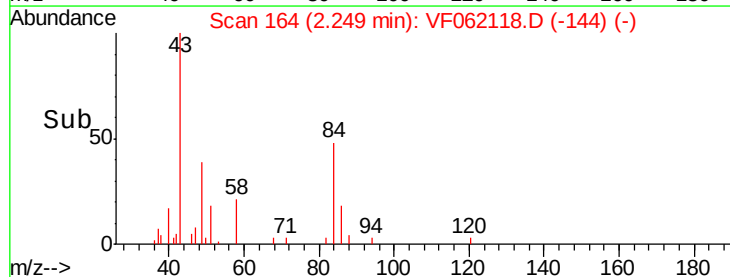
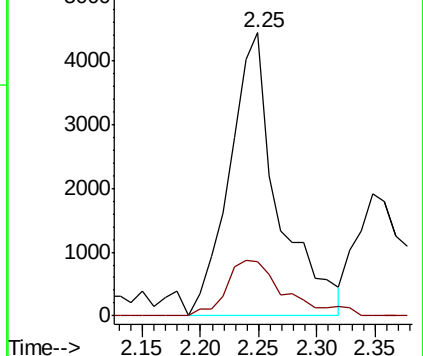
43 100

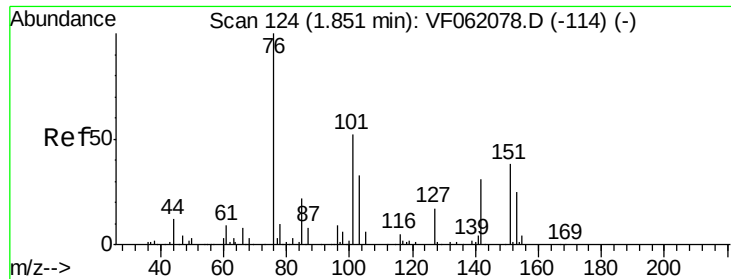
58 19.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#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 :

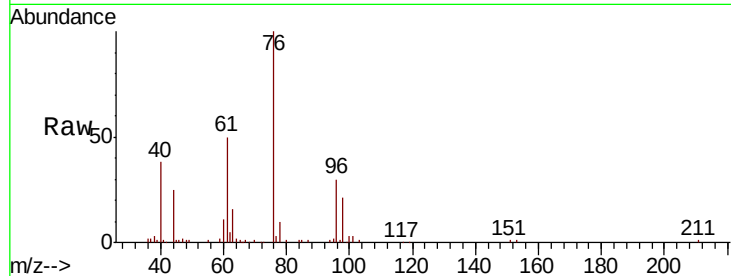
WP022SB439-190318-(13-14)MSD

Tot Ion: 76 Resp: 110604

Ion Ratio Lower Upper

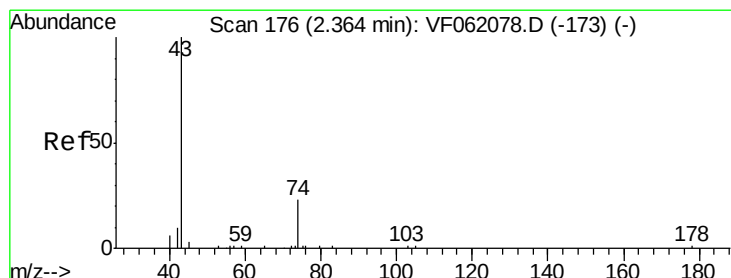
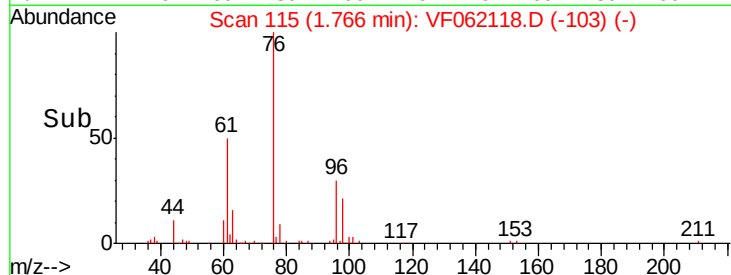
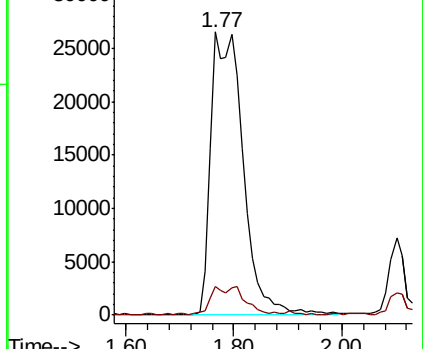
76 100

78 10.1 7.9 11.9



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 23.602 ug/l

RT: 2.35 min Scan# 174

Delta R.T. -0.02 min

Lab File: VF062118.D

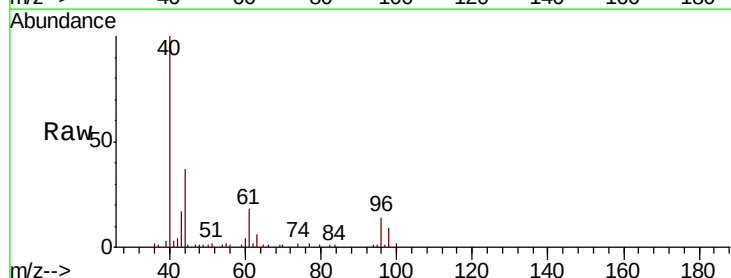
Acq: 23 Mar 2019 15:39

Tgt Ion: 43 Resp: 5059

Ion Ratio Lower Upper

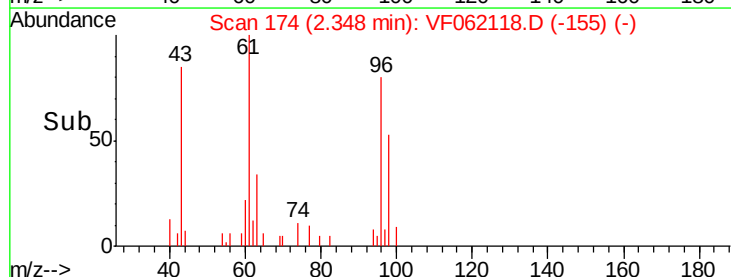
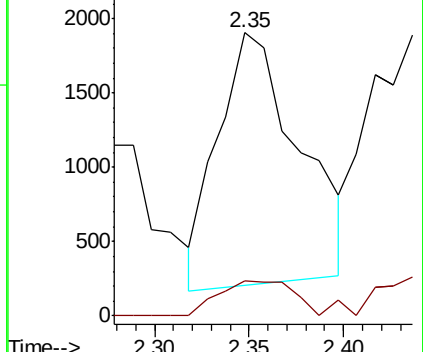
43 100

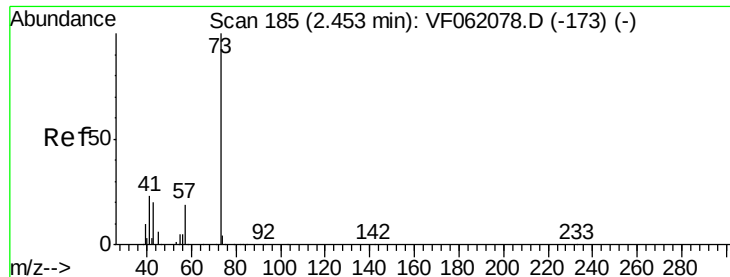
74 12.3 16.3 24.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

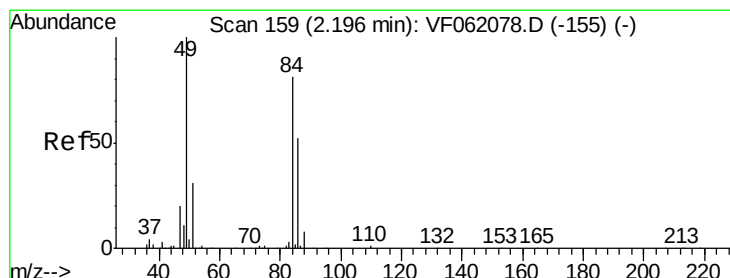
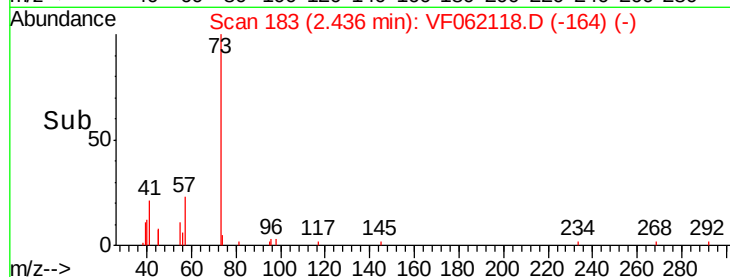
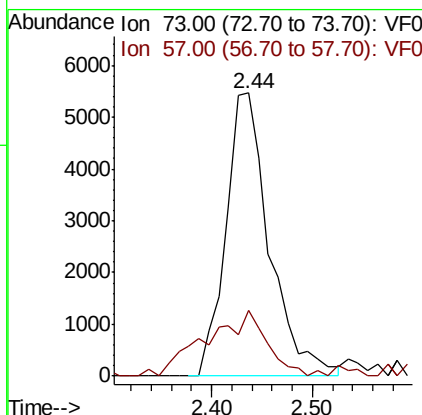
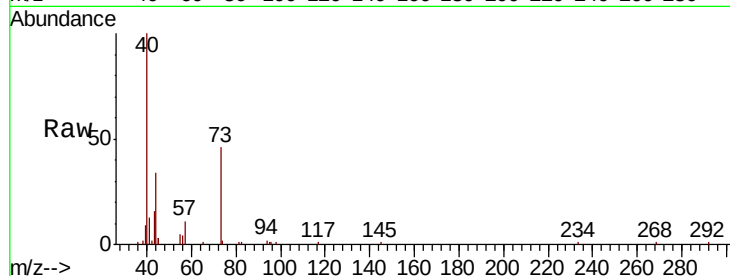




#19
Methyl tert-butyl Ether
Concen: 18.694 ug/l
RT: 2.44 min Scan# 183
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

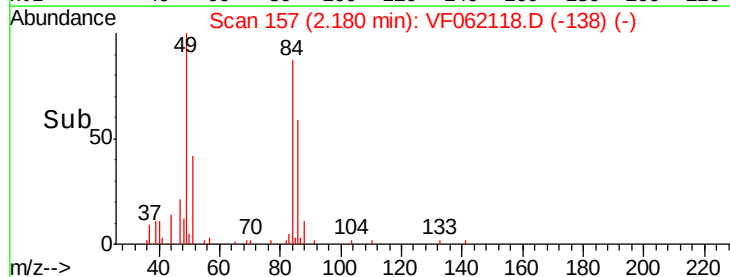
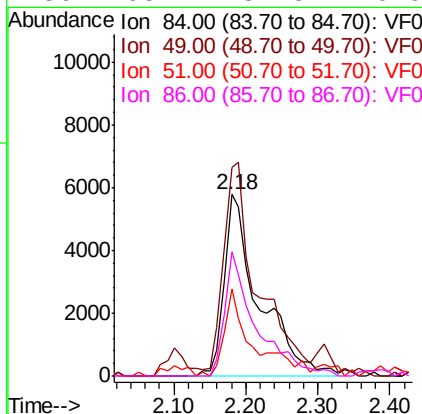
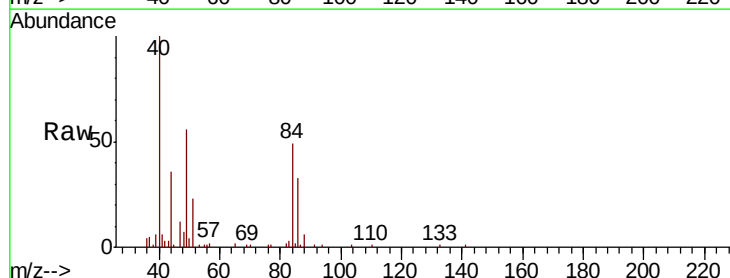
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

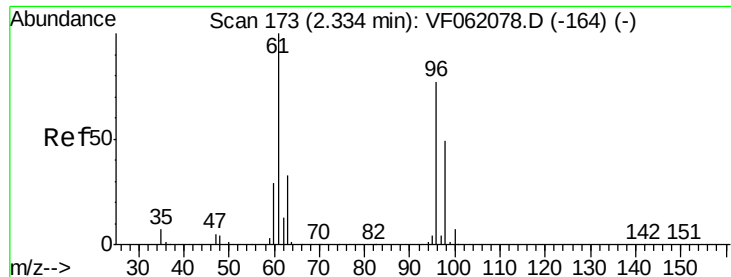
Tot Ion: 73 Resp: 16347
Ion Ratio Lower Upper
73 100
57 23.1 15.1 22.7#



#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

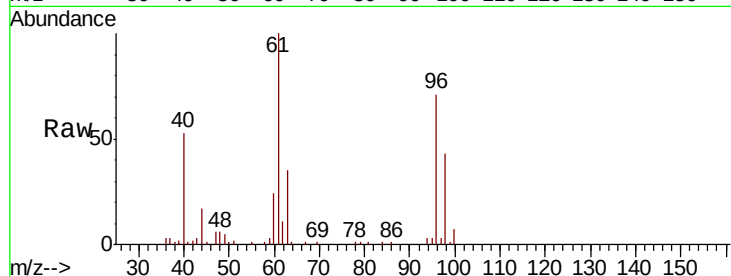
Tot Ion: 96 Resp: 30496

Ion Ratio Lower Upper

96 100

61 141.3 104.5 156.7

98 60.4 51.2 76.8

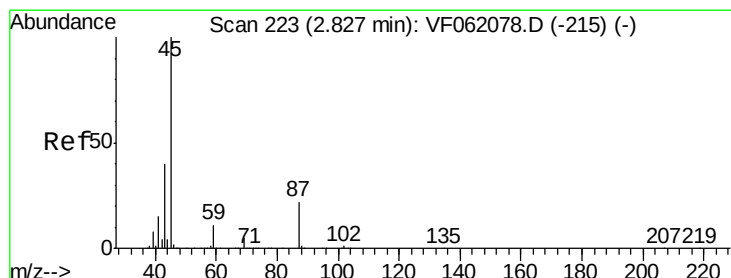
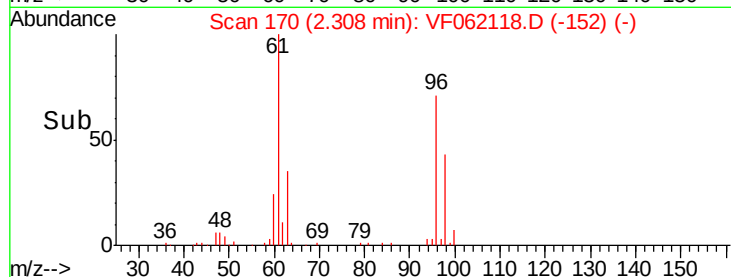
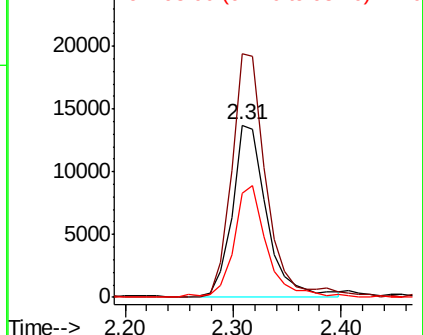


Abundance

Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#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

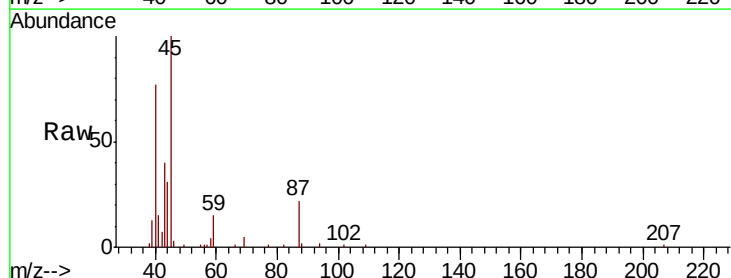
Ion Ratio Lower Upper

45 100

43 40.2 32.5 48.7

87 22.2 17.4 26.2

59 15.2 8.6 12.8#



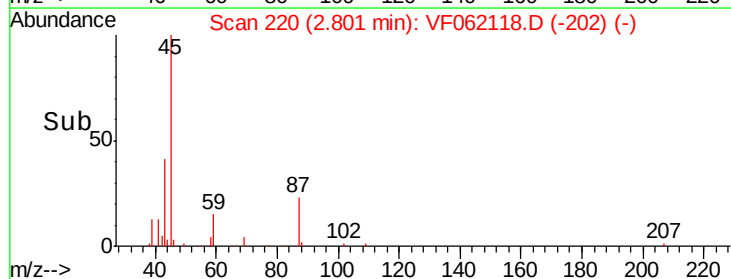
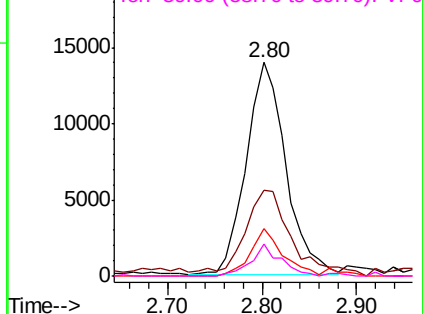
Abundance

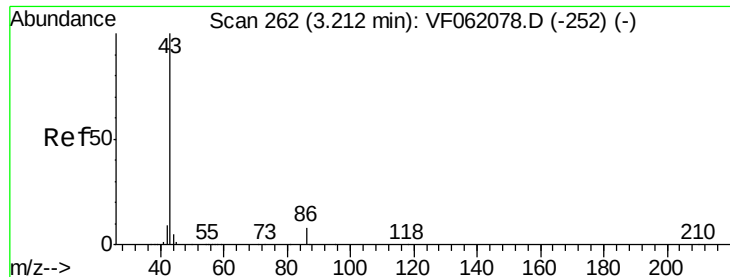
Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#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 :

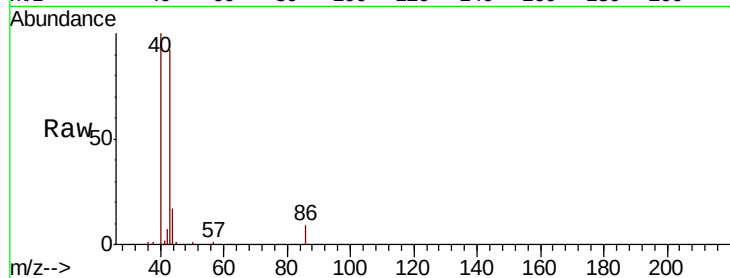
WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 38615

Ion Ratio Lower Upper

43 100

86 9.4 6.8 10.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

15000

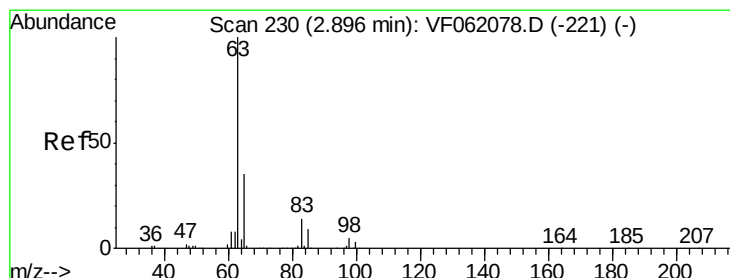
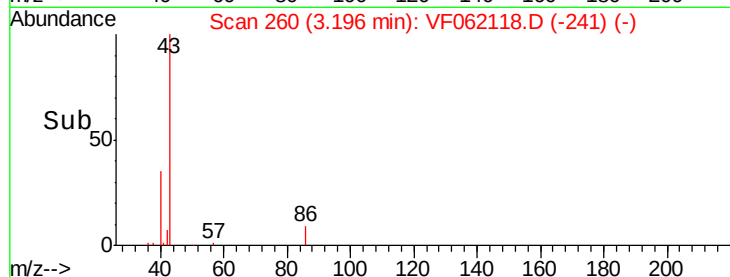
10000

5000

0

3.10 3.20 3.30

Time-->



#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

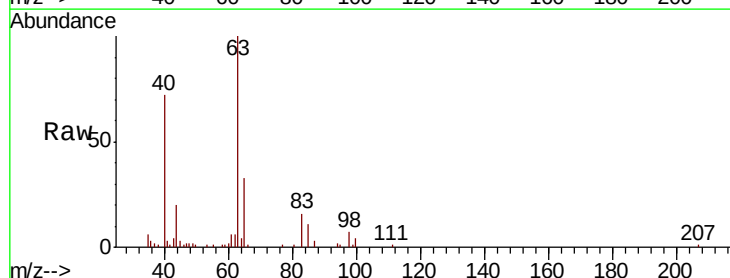
Tgt Ion: 63 Resp: 43392

Ion Ratio Lower Upper

63 100

98 7.2 2.7 8.1

100 3.5 1.7 5.1



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

20000

15000

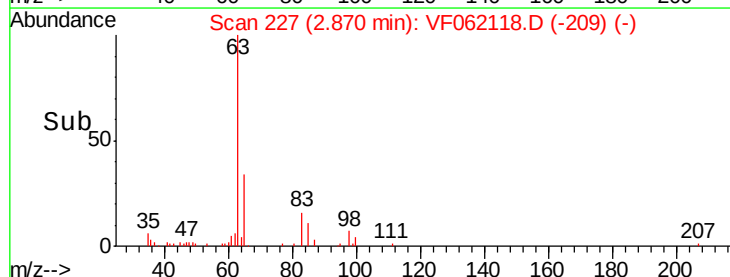
10000

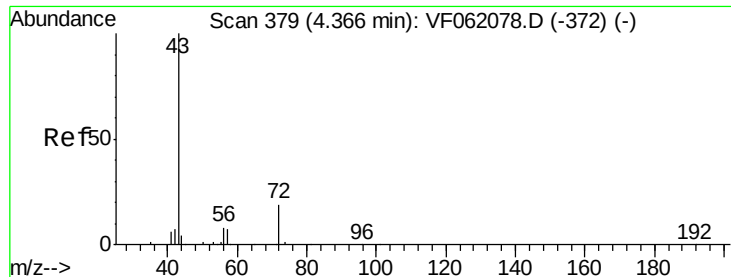
5000

0

2.70 2.80 2.90 3.00 3.10

Time-->





#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 :

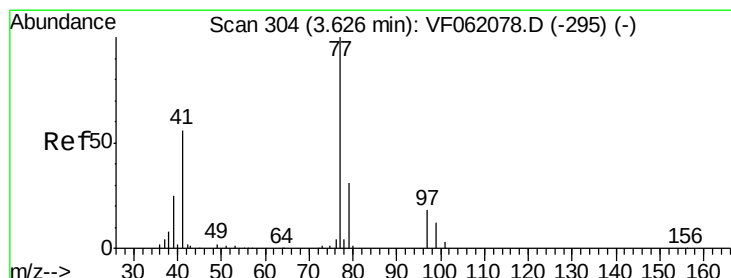
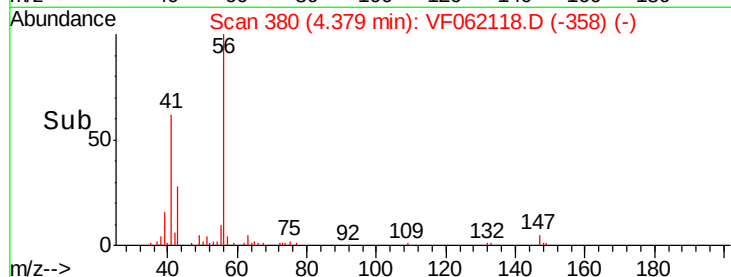
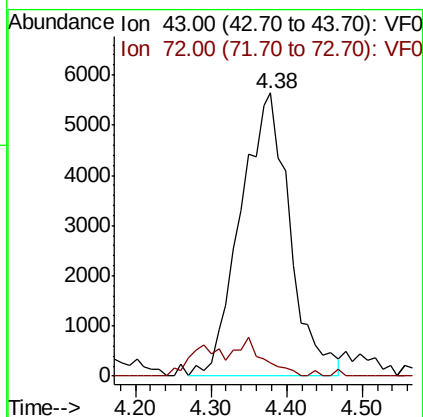
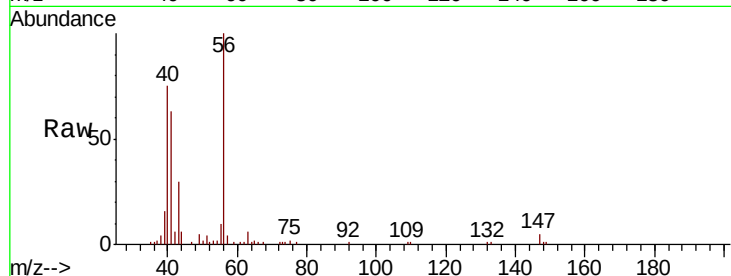
WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 25533

Ion Ratio Lower Upper

43 100

72 4.7 16.7 25.1#



#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

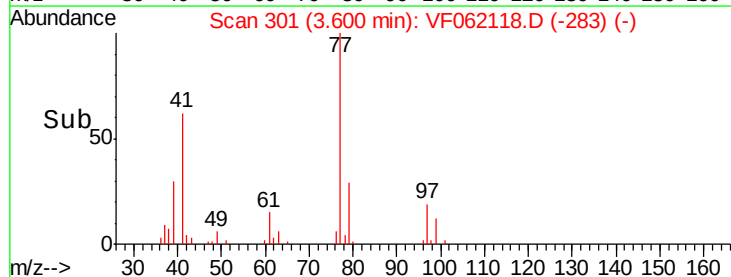
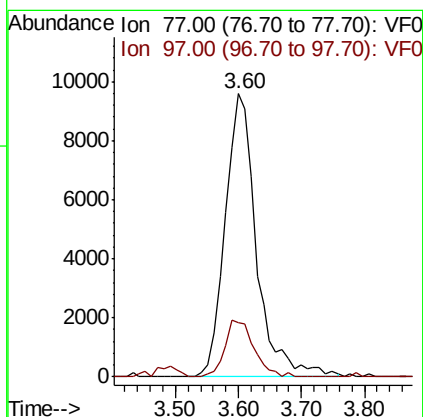
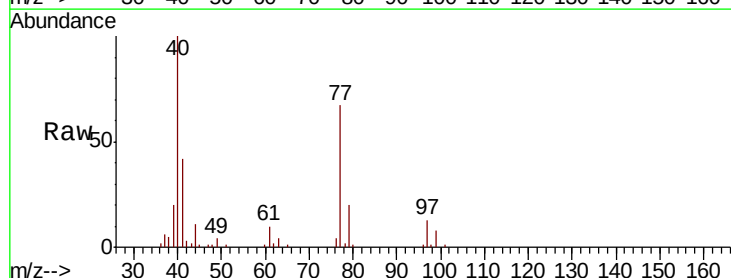
Acq: 23 Mar 2019 15:39

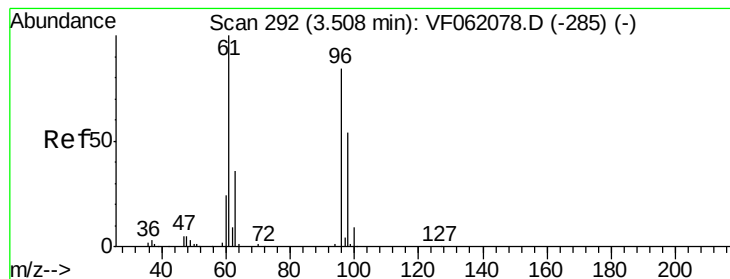
Tgt Ion: 77 Resp: 32933

Ion Ratio Lower Upper

77 100

97 19.2 10.3 30.9



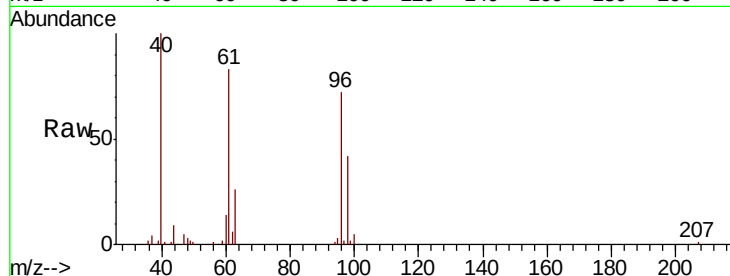


#27

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	Lower	Upper
96	100		
61	115.1	0.0	239.0
98	58.9	0.0	128.2

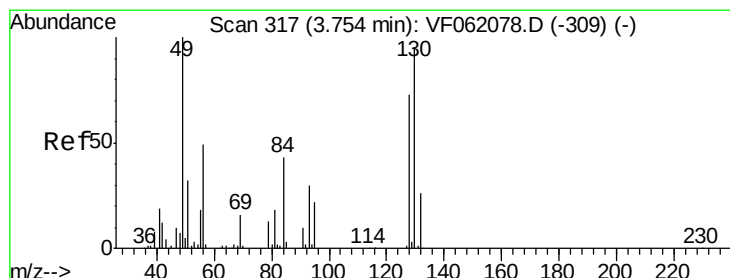
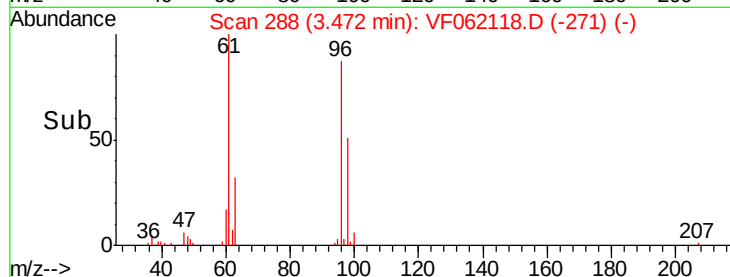
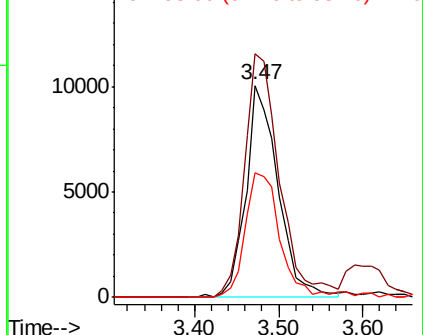


Abundance

Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

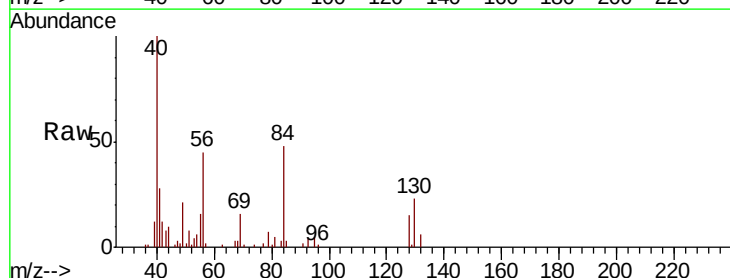
Ion 98.00 (97.70 to 98.70): VF0



#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	Lower	Upper
49	100		
129	3.6	0.0	5.6
130	107.9	75.5	113.3

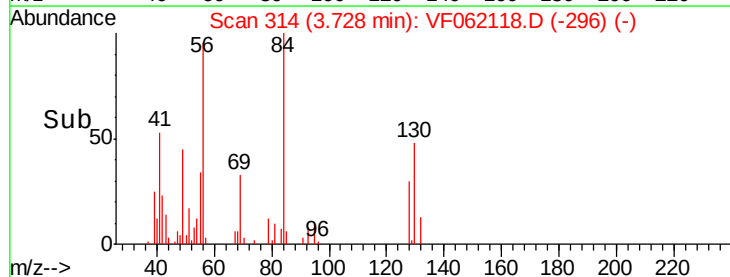
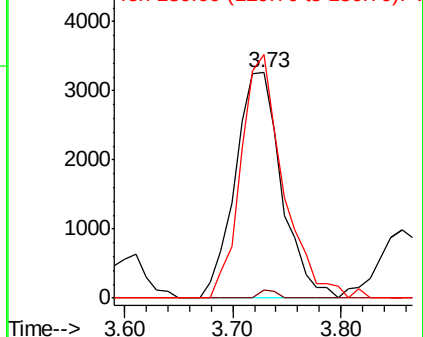


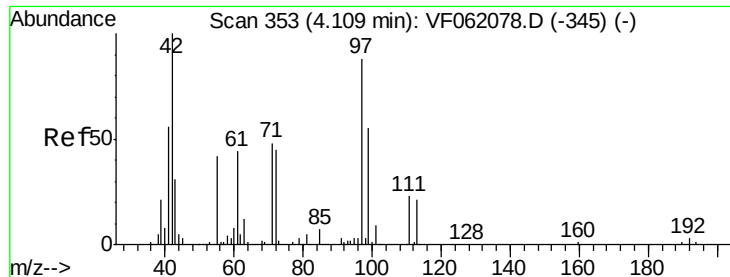
Abundance

Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#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

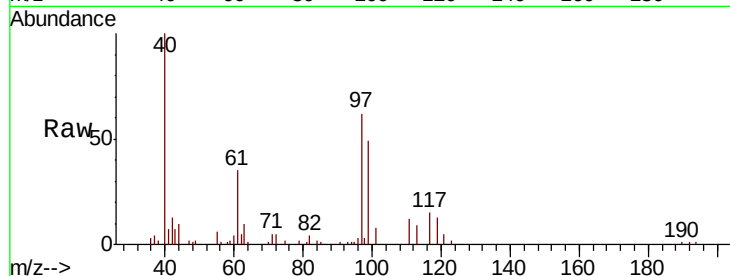
Tot Ion: 42 Resp: 6597

Ion Ratio Lower Upper

42 100

72 32.4 33.3 49.9#

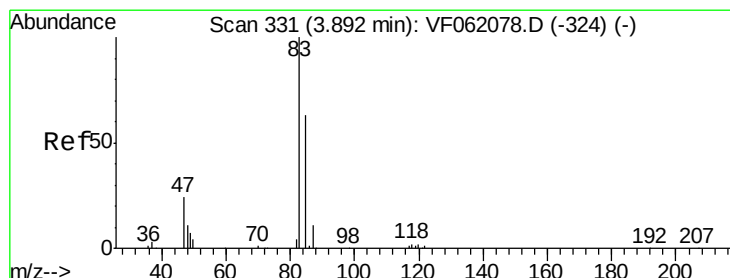
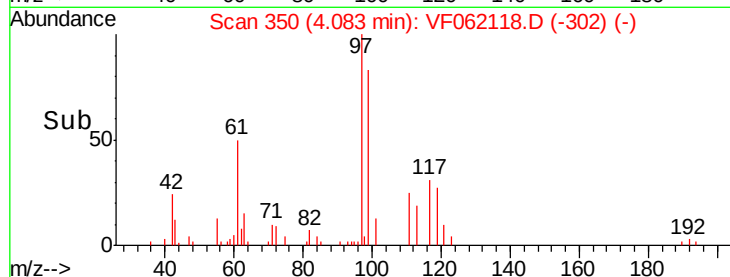
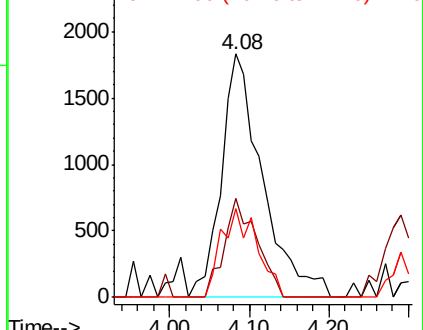
71 32.0 35.0 52.4#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 39.710 ug/l

RT: 3.87 min Scan# 328

Delta R.T. -0.03 min

Lab File: VF062118.D

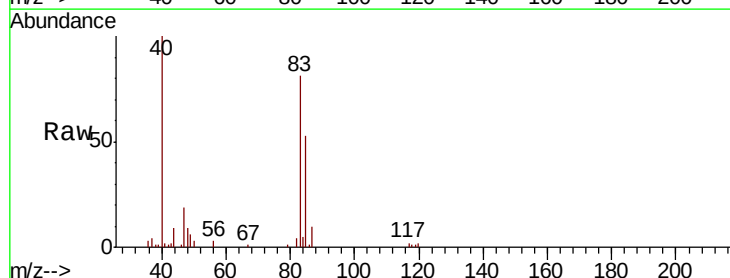
Acq: 23 Mar 2019 15:39

Tgt Ion: 83 Resp: 38977

Ion Ratio Lower Upper

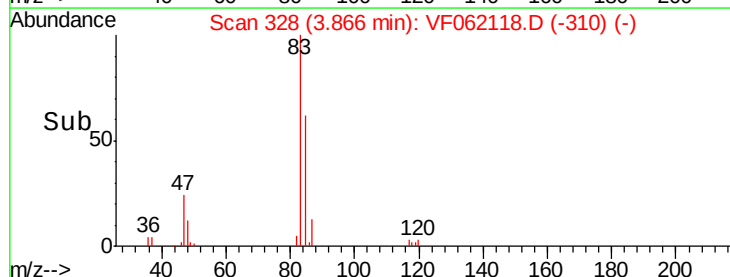
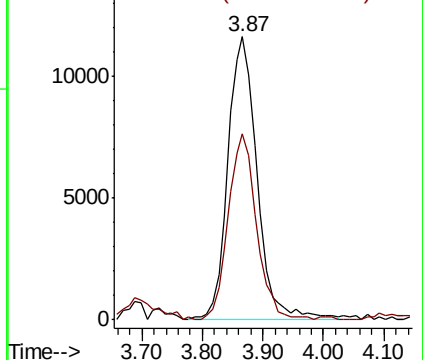
83 100

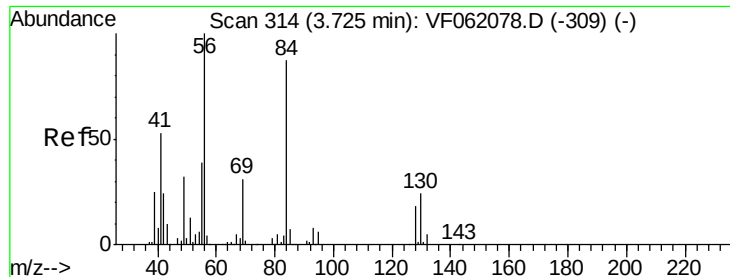
85 65.9 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

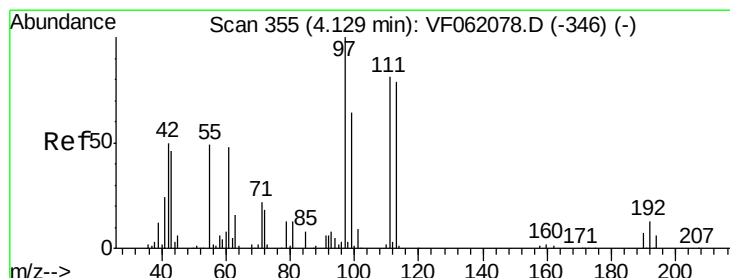
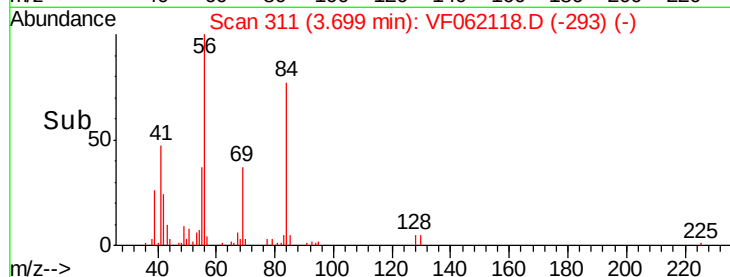
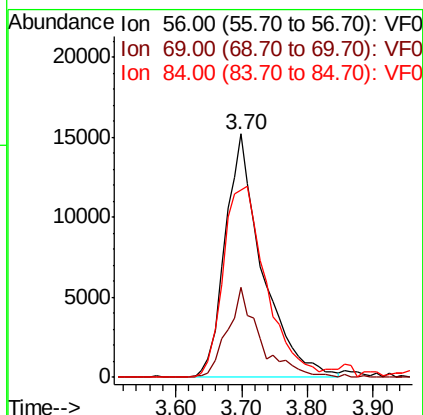
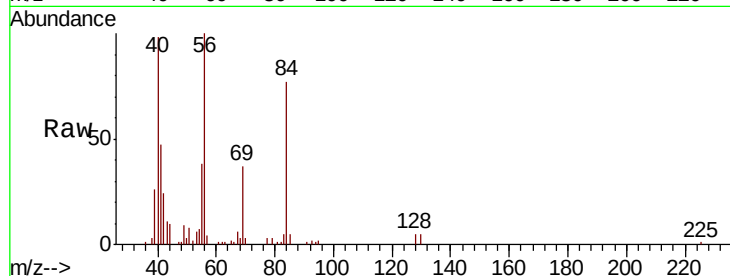




#31
Cvclohexane
Concen: 62.035 ug/l
RT: 3.70 min Scan# 311
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

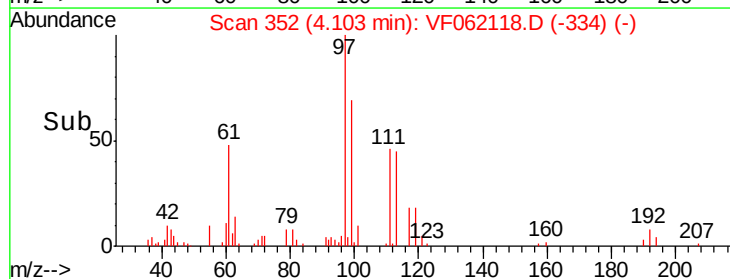
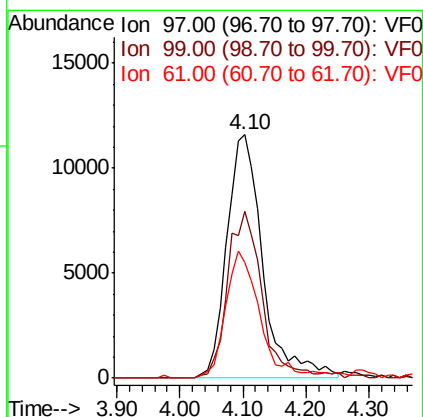
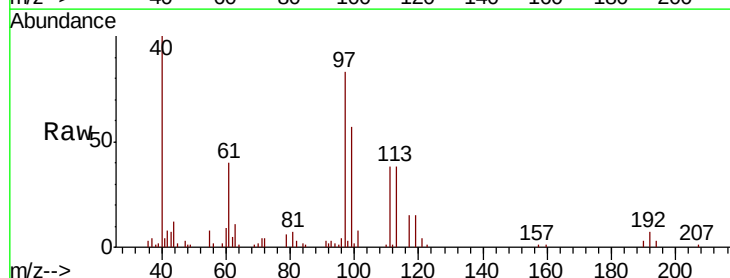
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

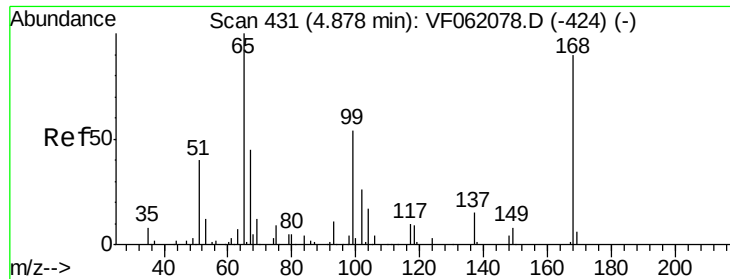
Tot Ion: 56 Resp: 60174
Ion Ratio Lower Upper
56 100
69 36.8 25.9 38.9
84 76.9 71.1 106.7



#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: 97 Resp: 45785
Ion Ratio Lower Upper
97 100
99 68.7 51.3 76.9
61 47.6 39.0 58.6

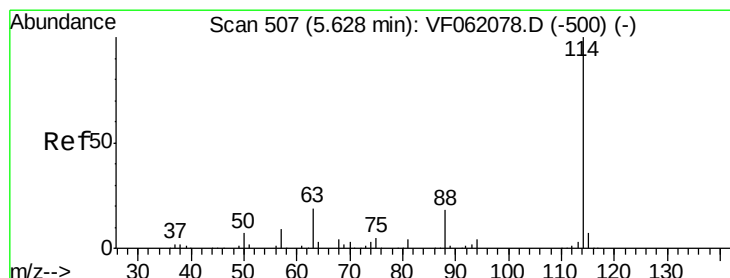
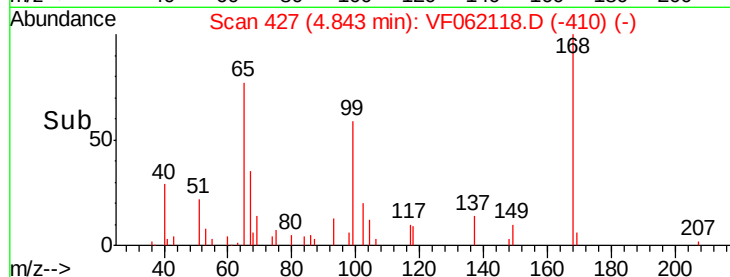
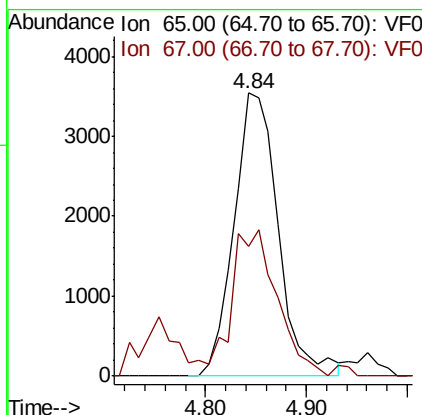
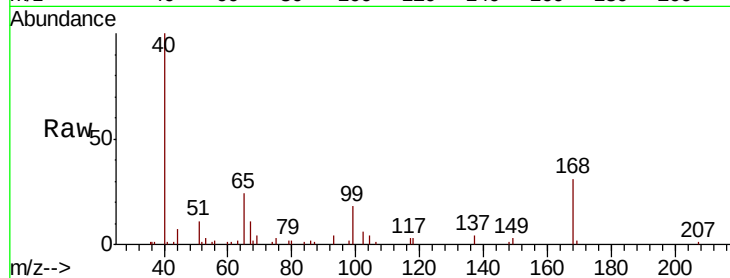




#33
 1,2-Dichloroethane-d4
 Concen: 25.367 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

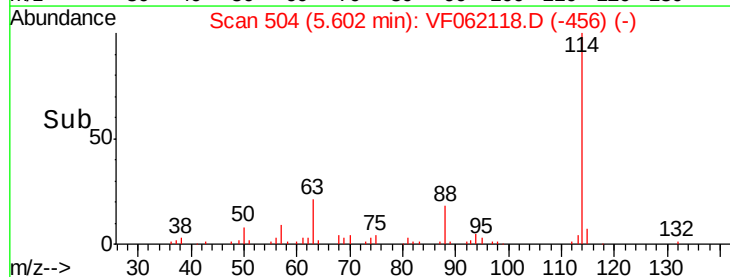
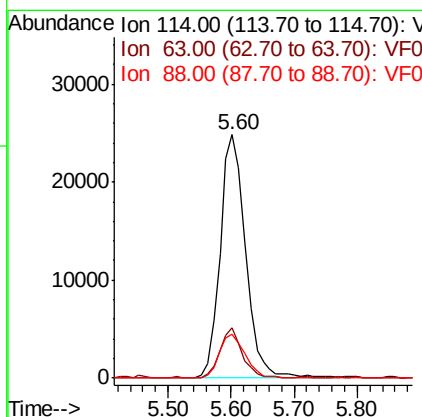
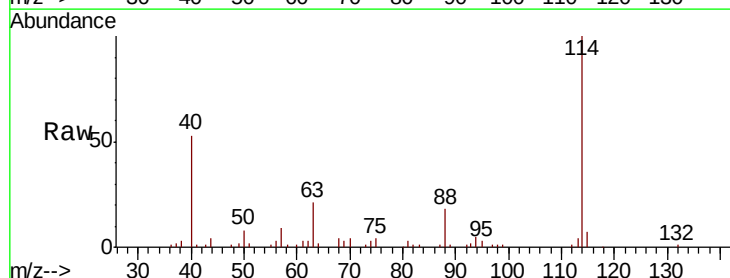
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

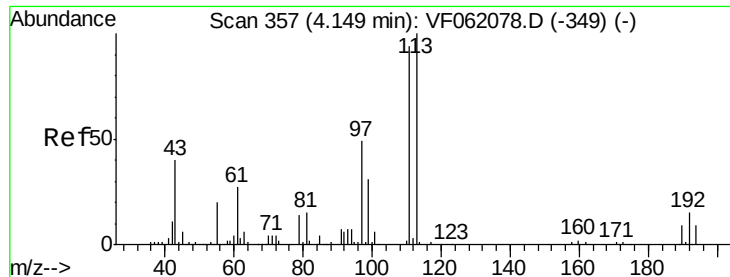
Tot Ion: 65 Resp: 10830
 Ion Ratio Lower Upper
 65 100
 67 45.9 0.0 106.2



#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

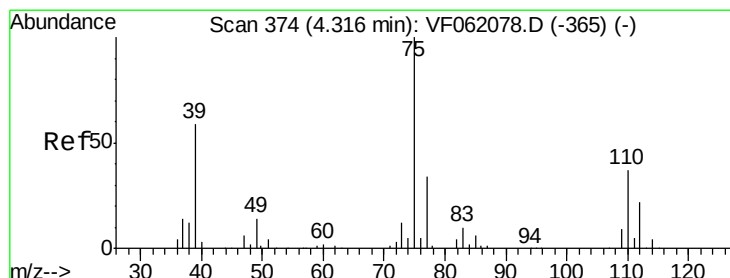
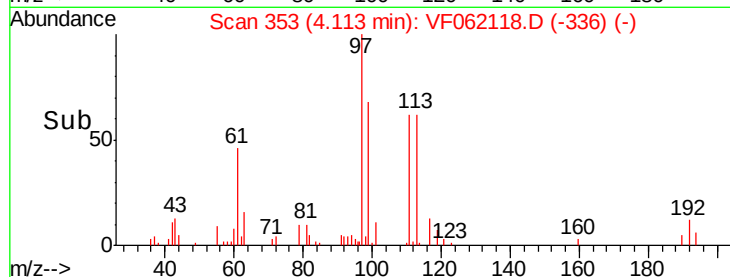
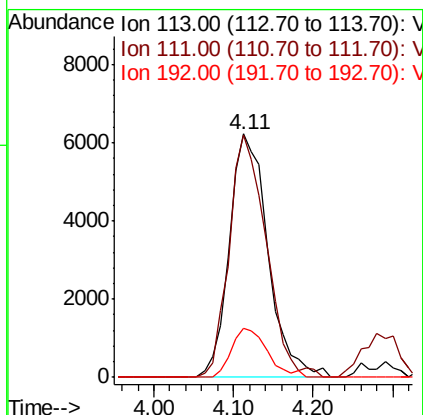
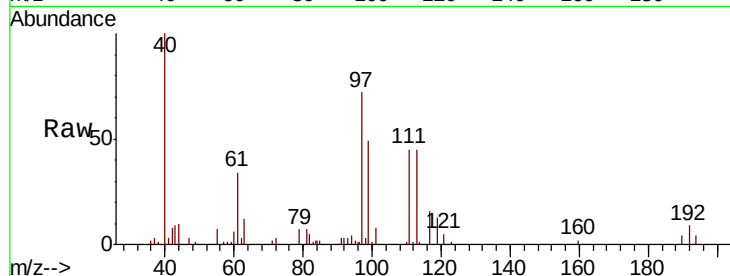




#35
 Dibromofluoromethane
 Concen: 44.414 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.04 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

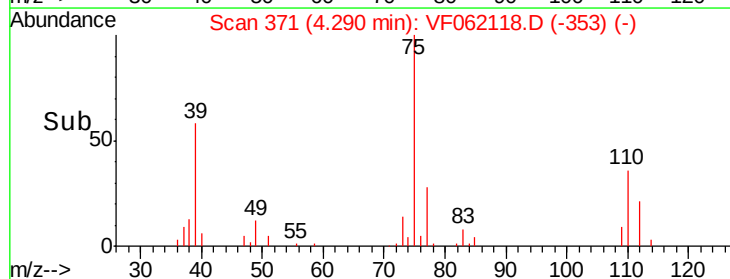
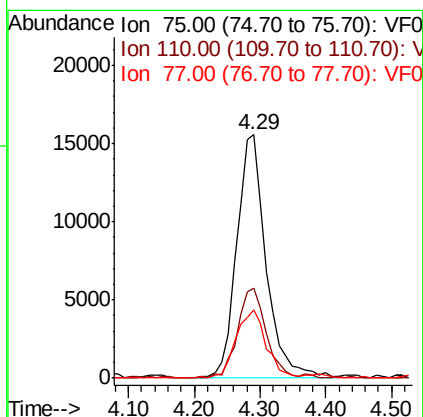
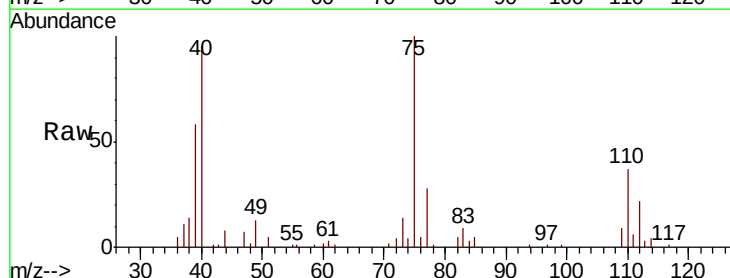
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

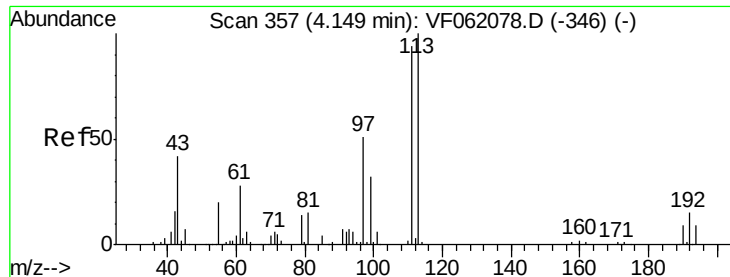
Tot Ion:113 Resp: 21018
 Ion Ratio Lower Upper
 113 100
 111 99.7 75.4 113.0
 192 19.9 12.3 18.5#



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

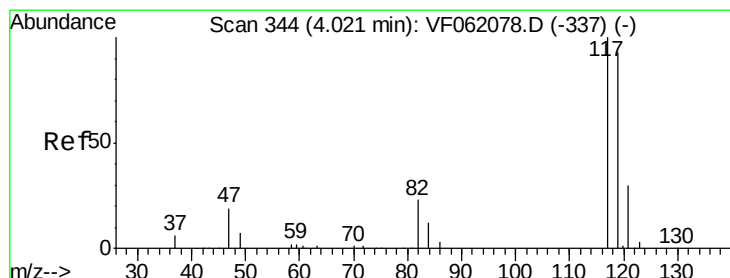
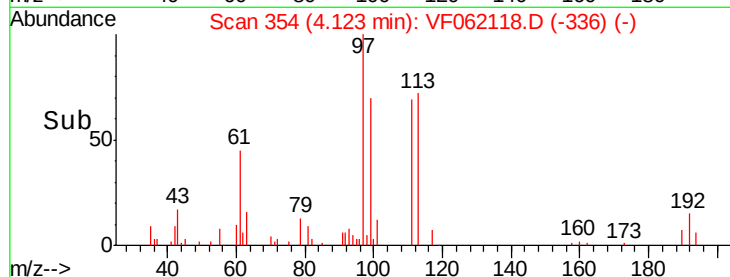
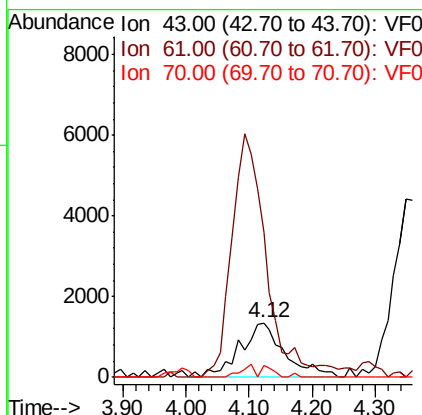
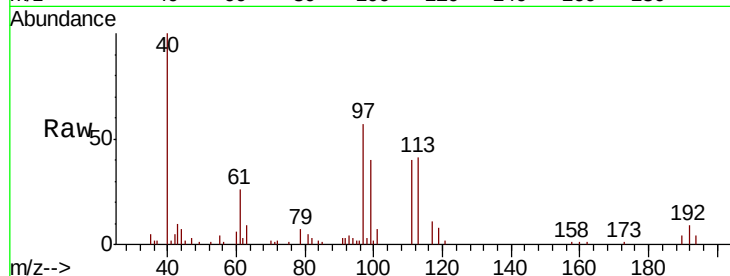




#37
Ethyl Acetate
Concen: 23.018 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

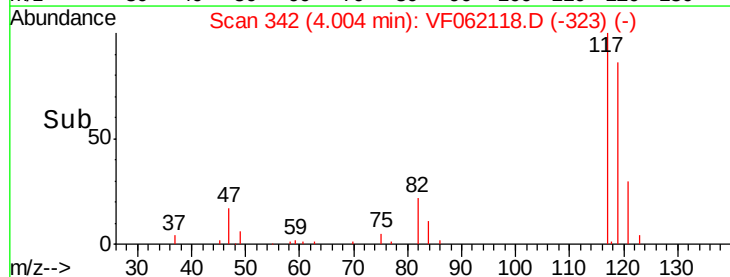
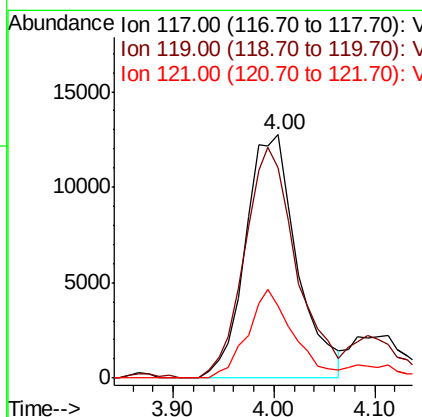
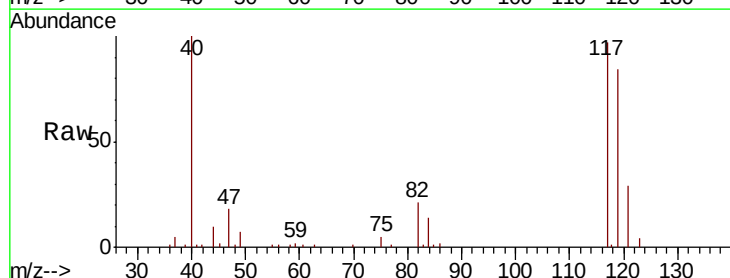
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

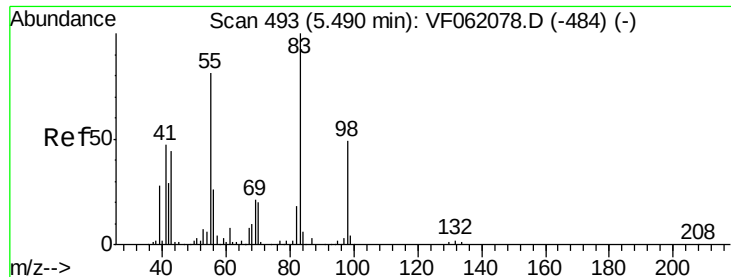
Tot Ion: 43 Resp: 6703
Ion Ratio Lower Upper
43 100
61 266.9 53.6 80.4#
70 23.1 9.0 13.6#



#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: 117 Resp: 45206
Ion Ratio Lower Upper
117 100
119 86.4 74.7 112.1
121 29.6 23.6 35.4

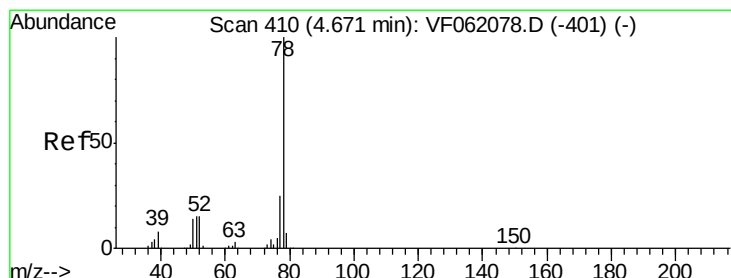
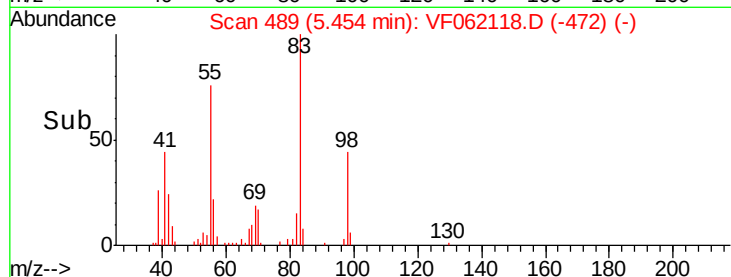
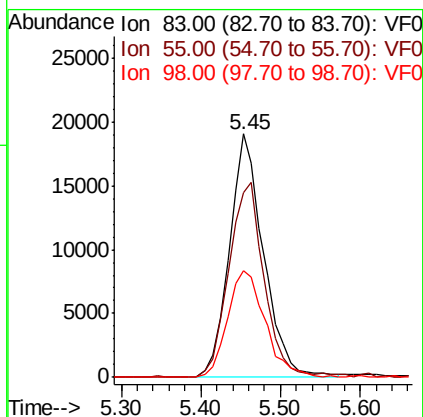
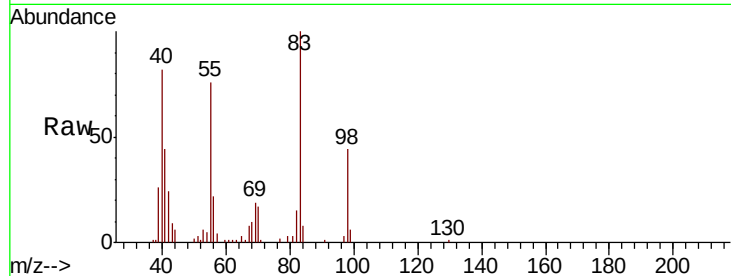




#39
Methylvlcyclohexane
Concen: 73.627 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.04 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

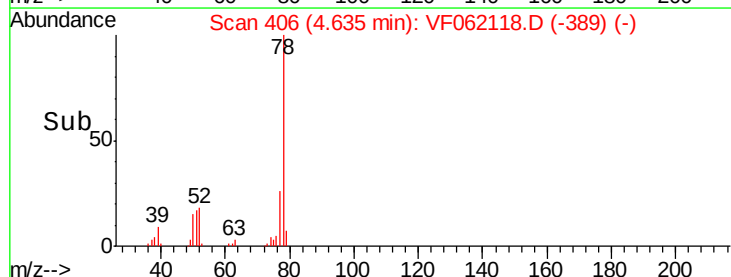
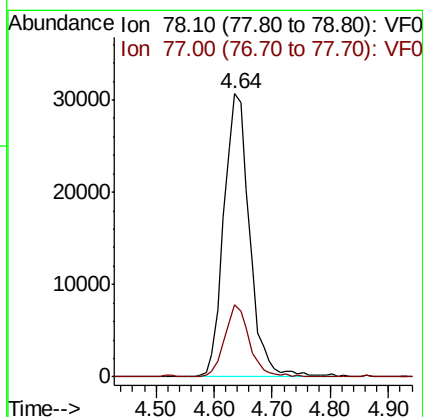
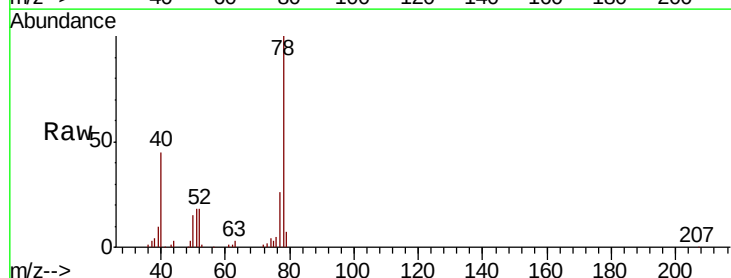
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

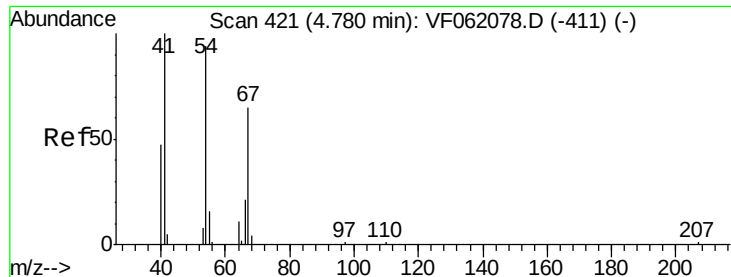
Tot Ion	83.00	Resp:	56939
Ion	Ratio	Lower	Upper
83	100		
55	75.8	64.5	96.7
98	44.0	39.1	58.7



#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	78	Resp:	94306
Ion	Ratio	Lower	Upper
78	100		
77	25.7	19.8	29.6

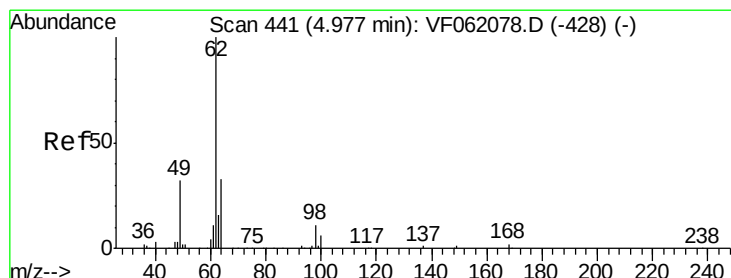
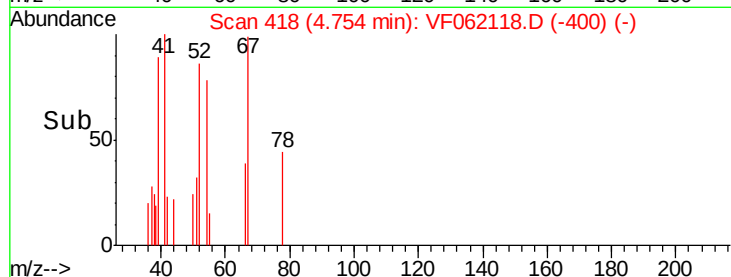
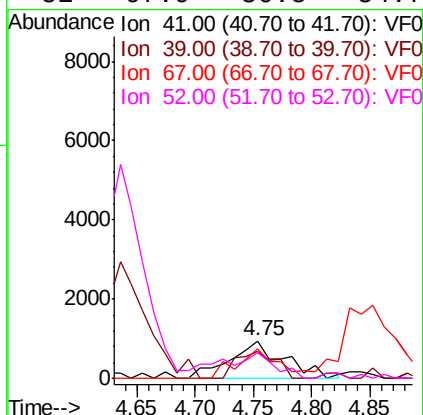
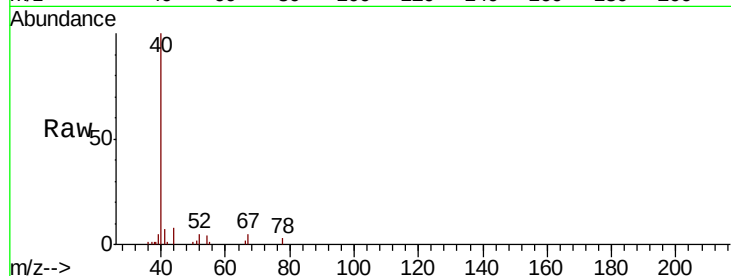




#41
Methacrylonitrile
Concen: 19.801 ug/l
RT: 4.75 min Scan# 418
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

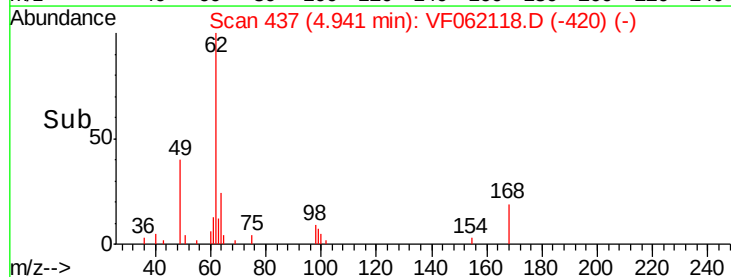
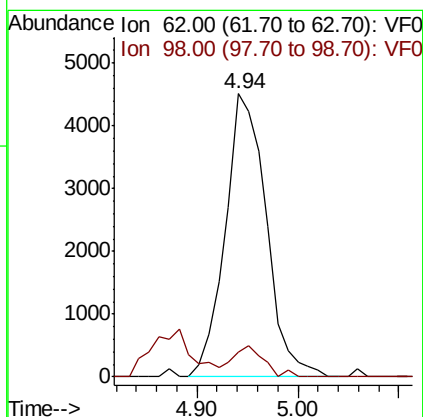
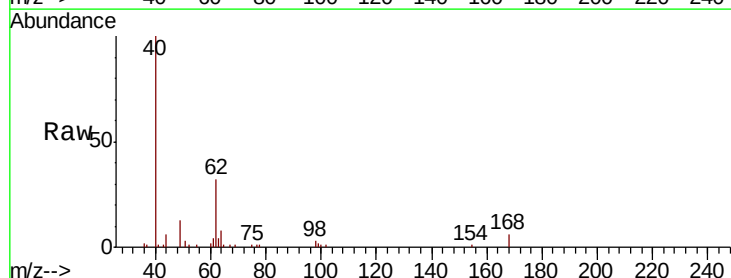
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

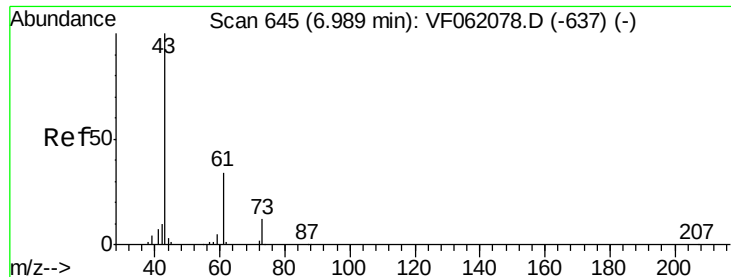
Tot Ion:	41	Resp:	3051
Ion	Ratio	Lower	Upper
41	100		
39	70.3	43.5	65.3#
67	78.2	51.6	77.4#
52	67.9	36.5	54.7#



#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:	62	Resp:	12767
Ion	Ratio	Lower	Upper
62	100		
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

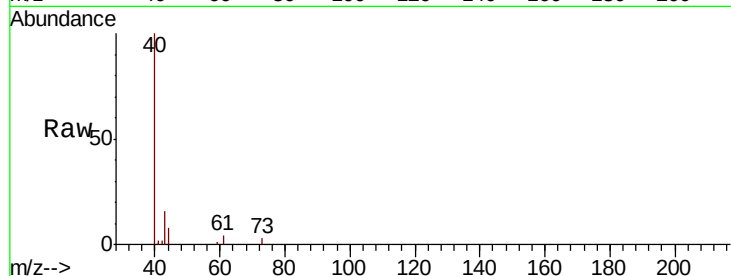
Tot Ion: 43 Resp: 5687

Ion Ratio Lower Upper

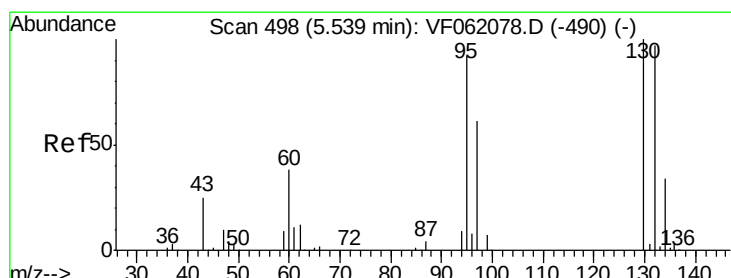
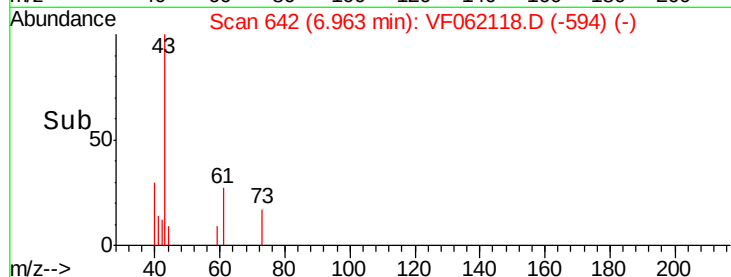
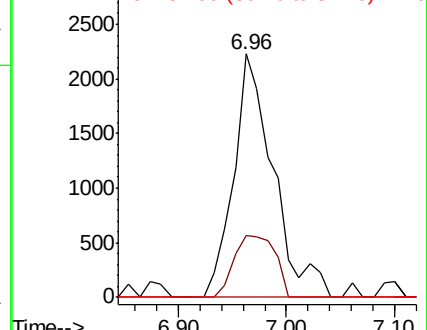
43 100

61 25.4 27.0 40.4#

87 0.0 0.4 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 87.00 (86.70 to 87.70): VF0



#44

Trichloroethene

Concen: 60.592 ug/l

RT: 5.50 min Scan# 494

Delta R.T. -0.04 min

Lab File: VF062118.D

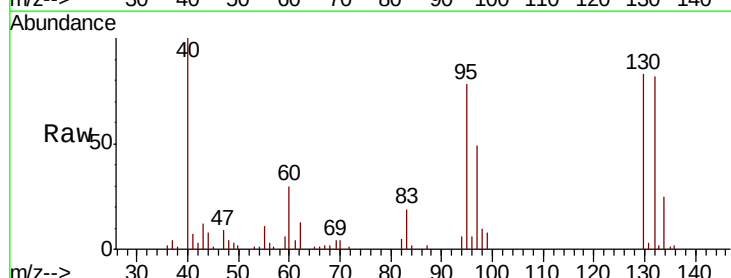
Acq: 23 Mar 2019 15:39

Tgt Ion:130 Resp: 33091

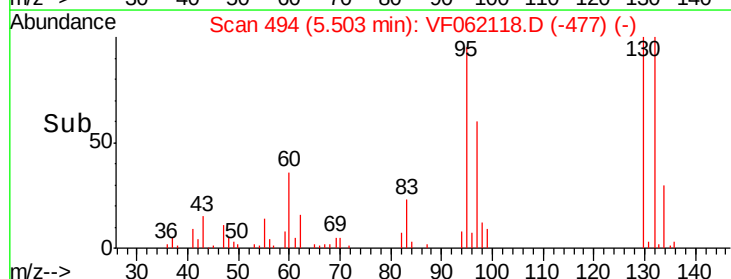
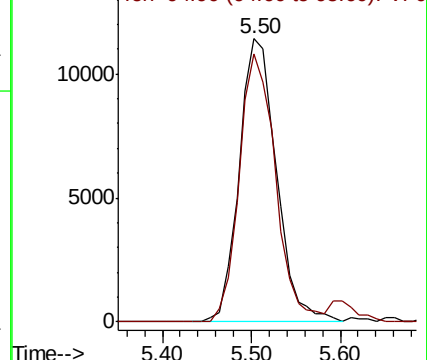
Ion Ratio Lower Upper

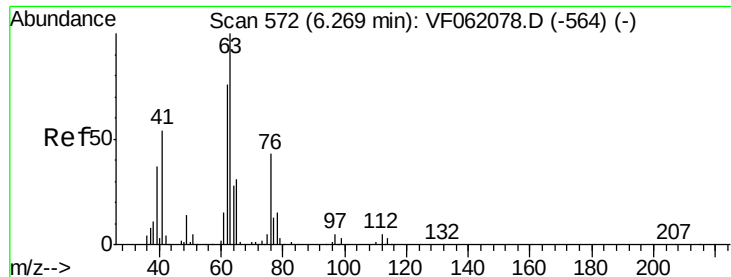
130 100

95 94.8 0.0 183.4



Abundance Ion 129.90 (129.60 to 130.60): V
Ion 94.90 (94.60 to 95.60): VF0





#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 :

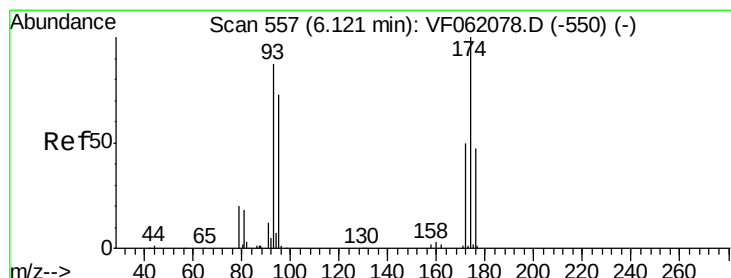
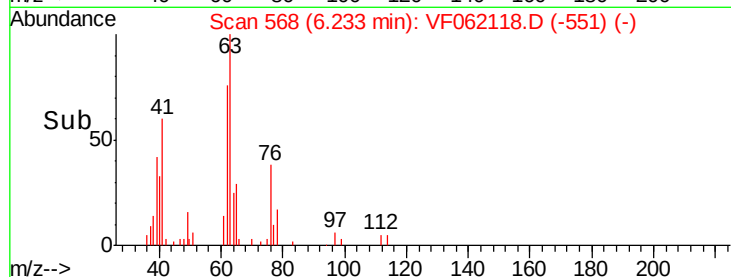
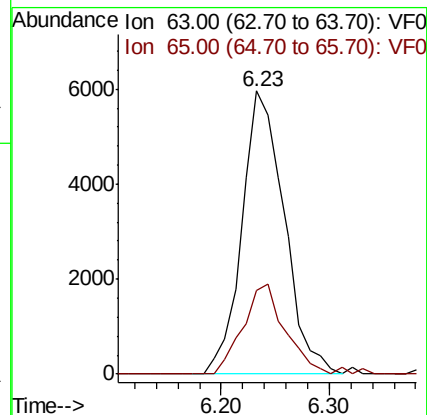
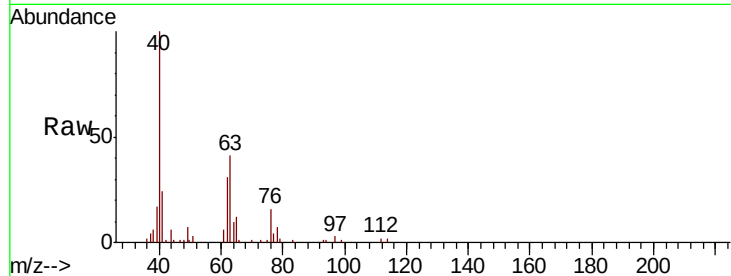
WP022SB439-190318-(13-14)MSD

Tot Ion: 63 Resp: 16241

Ion Ratio Lower Upper

63 100

65 29.4 24.9 37.3



#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

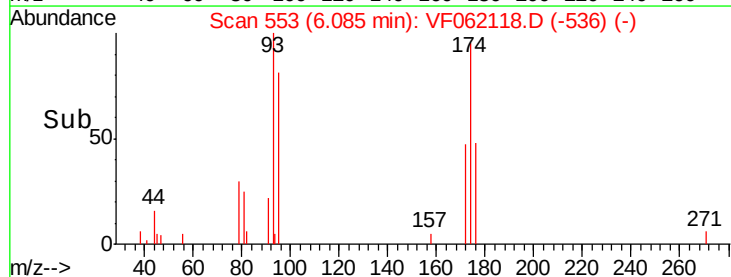
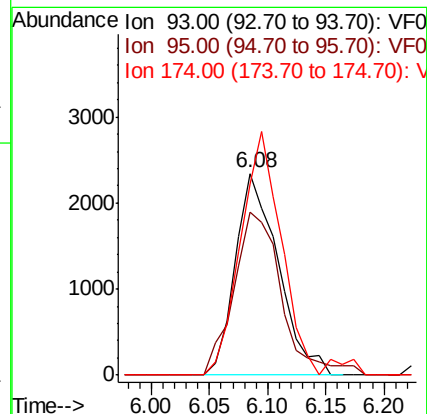
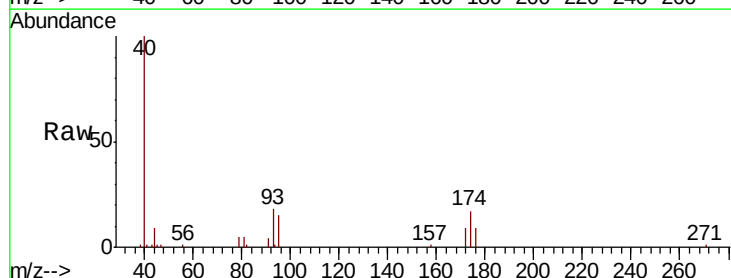
Tgt Ion: 93 Resp: 5981

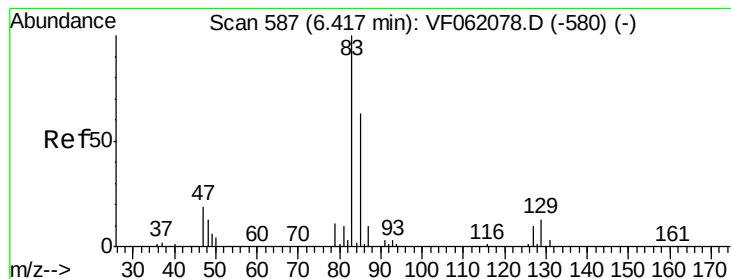
Ion Ratio Lower Upper

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

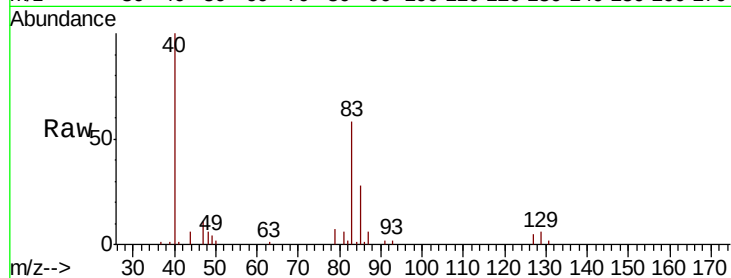
Tot Ion: 83 Resp: 21036

Ion Ratio Lower Upper

83 100

85 47.6 50.7 76.1#

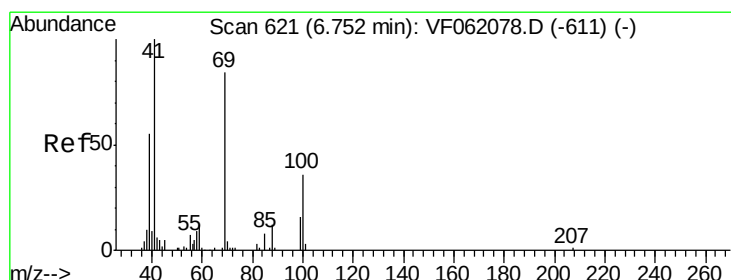
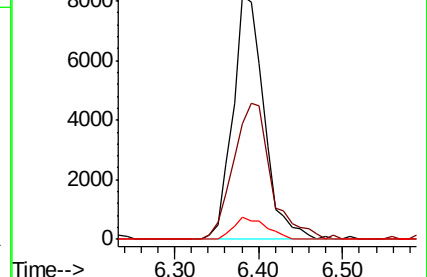
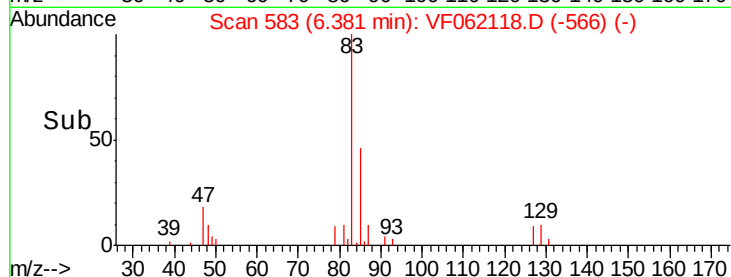
127 9.1 7.8 11.6



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#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

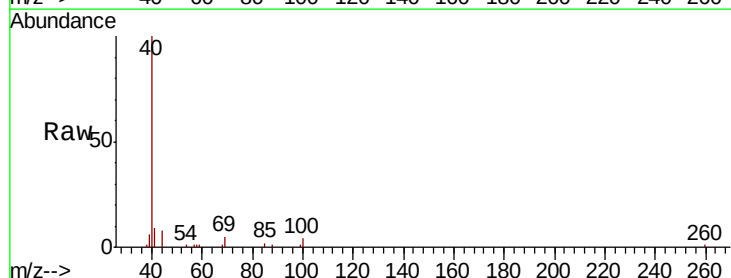
Tgt Ion: 41 Resp: 3962

Ion Ratio Lower Upper

41 100

69 56.3 66.6 100.0#

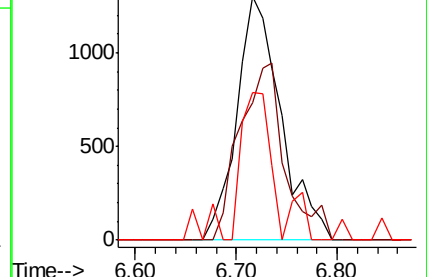
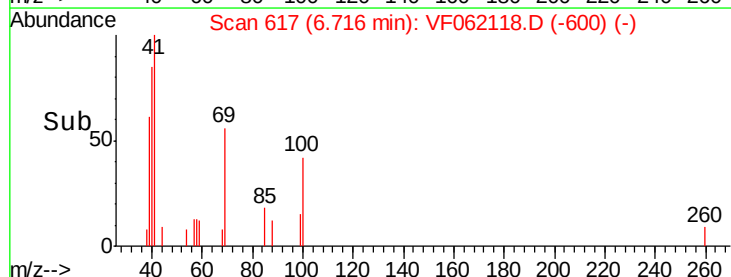
39 60.5 43.6 65.4

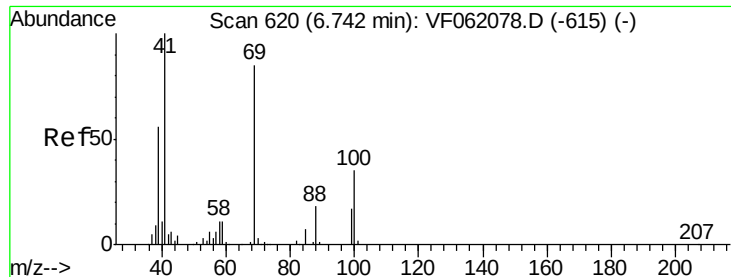


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#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

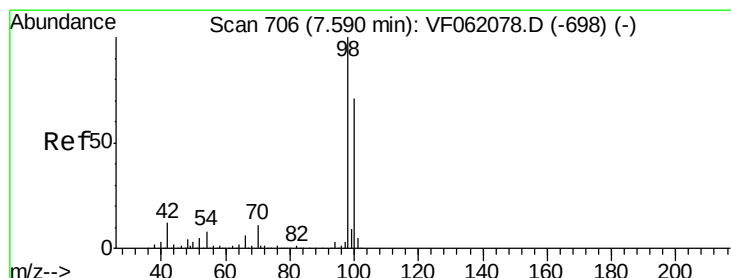
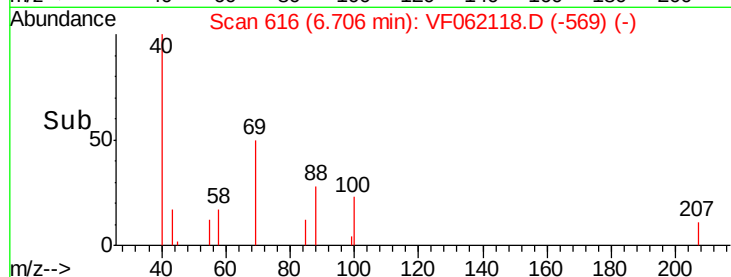
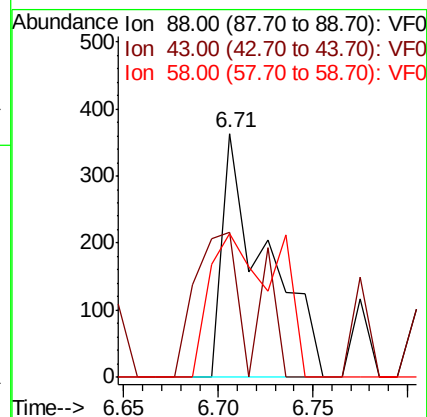
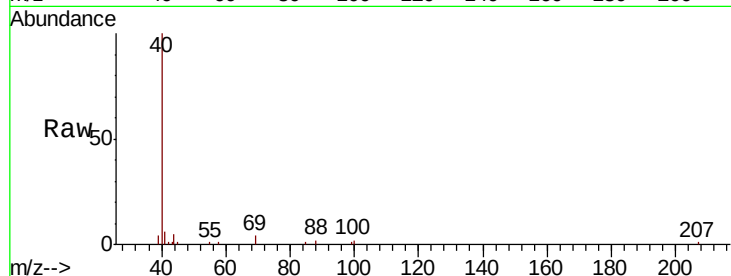
Tot Ion: 88 Resp: 577

Ion Ratio Lower Upper

88 100

43 59.5 35.0 52.4#

58 59.2 49.9 74.9



#50

Toluene-d8

Concen: 49.927 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF062118.D

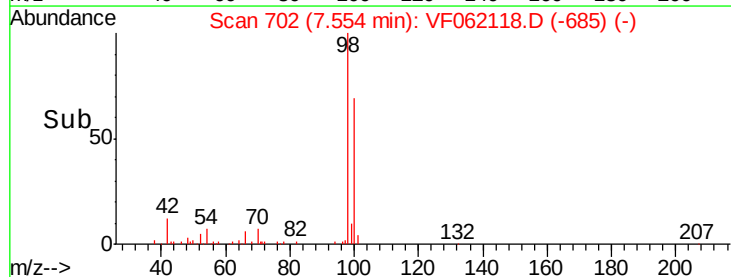
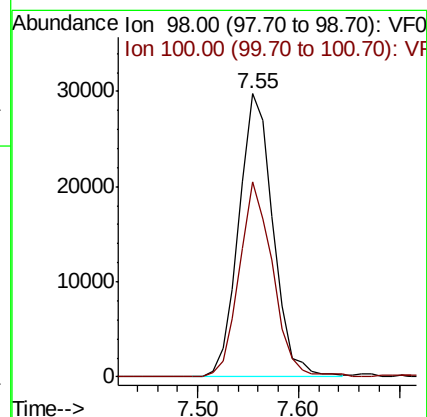
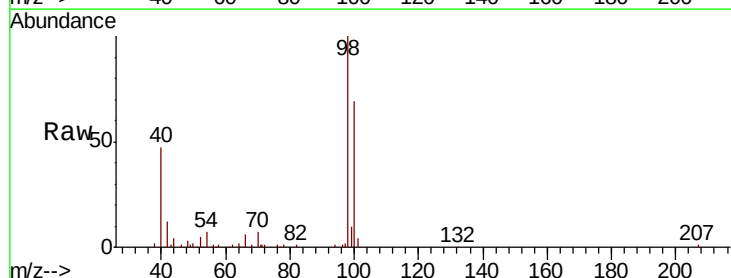
Acq: 23 Mar 2019 15:39

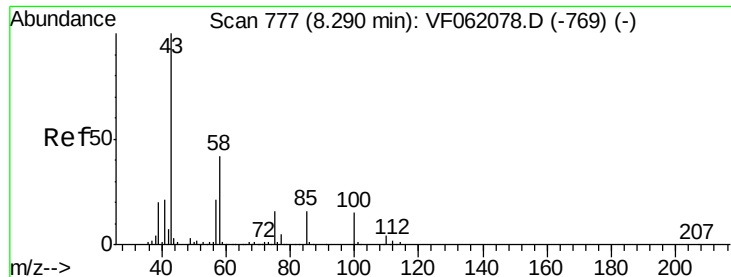
Tgt Ion: 98 Resp: 70526

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 :

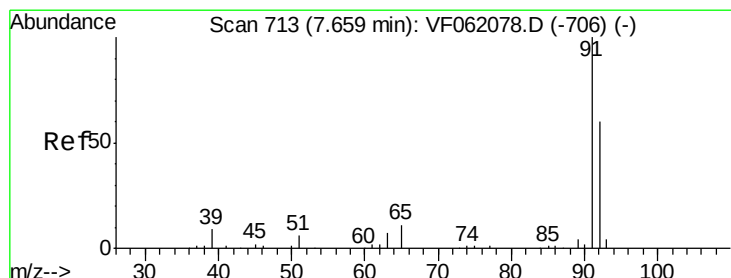
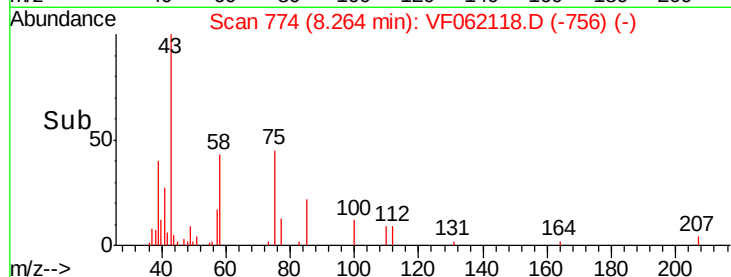
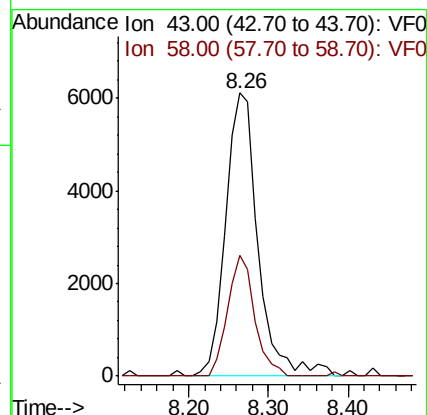
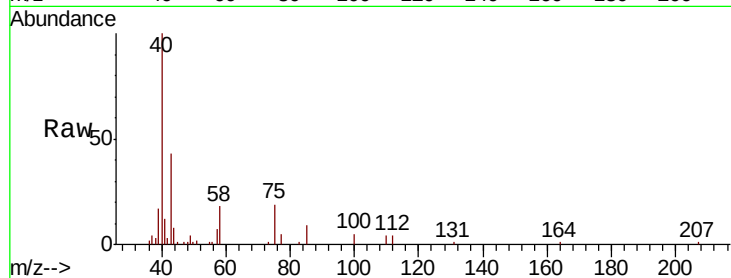
WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 17503

Ion Ratio Lower Upper

43 100

58 42.8 33.8 50.8



#52

Toluene

Concen: 56.163 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF062118.D

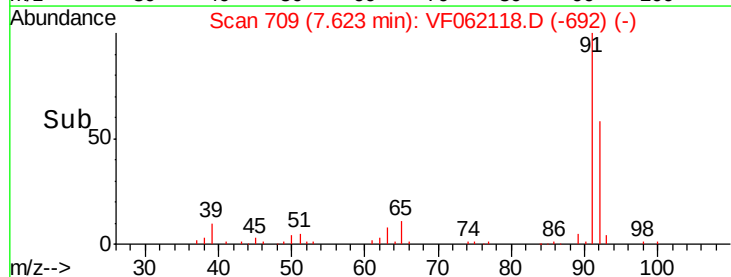
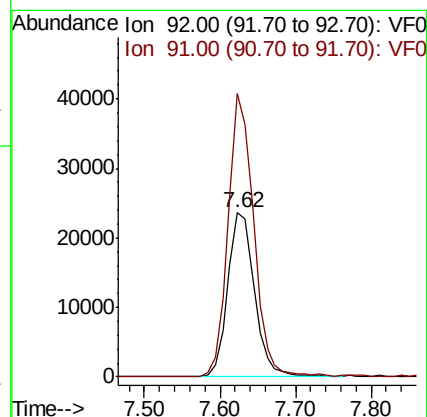
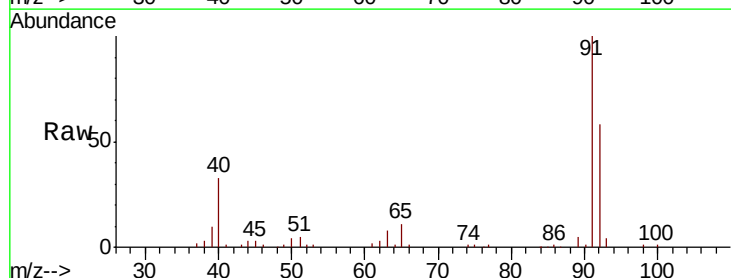
Acq: 23 Mar 2019 15:39

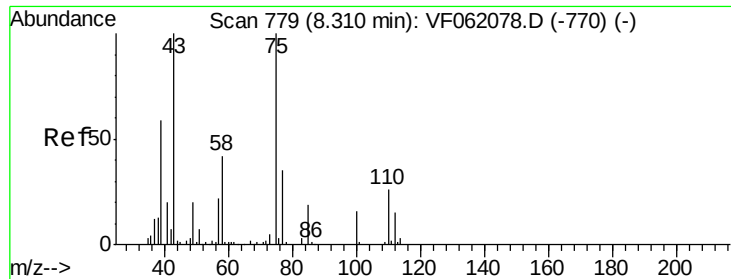
Tgt Ion: 92 Resp: 58108

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 :

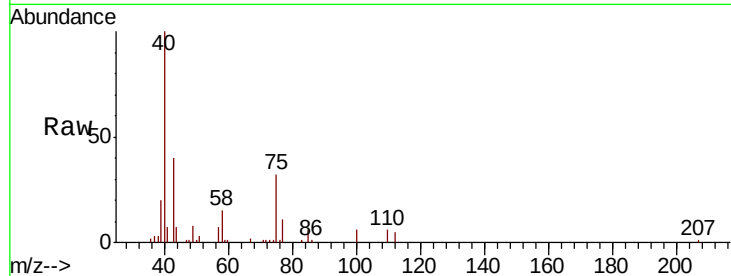
WP022SB439-190318-(13-14)MSD

Tot Ion: 75 Resp: 12103

Ion Ratio Lower Upper

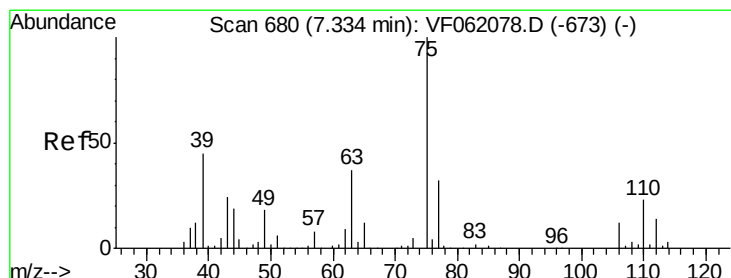
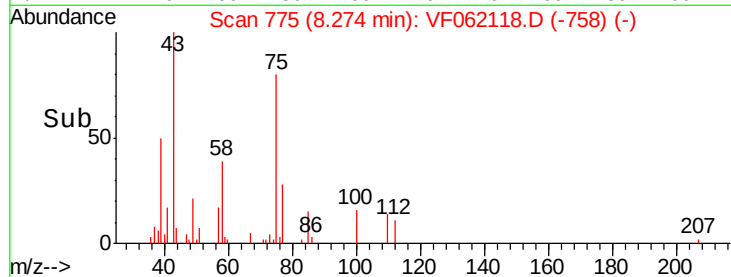
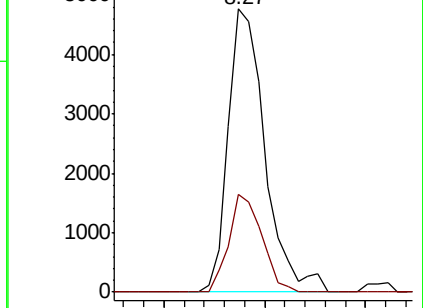
75 100

77 34.4 28.0 42.0



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 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

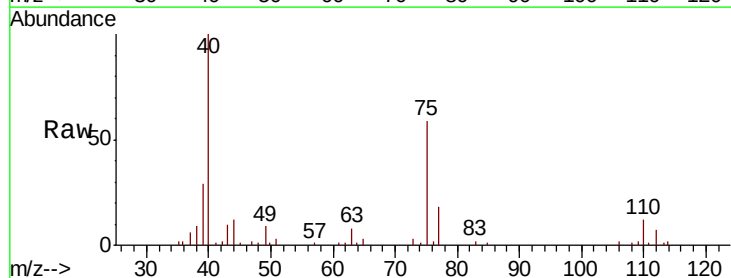
Tgt Ion: 75 Resp: 20089

Ion Ratio Lower Upper

75 100

77 30.9 25.8 38.6

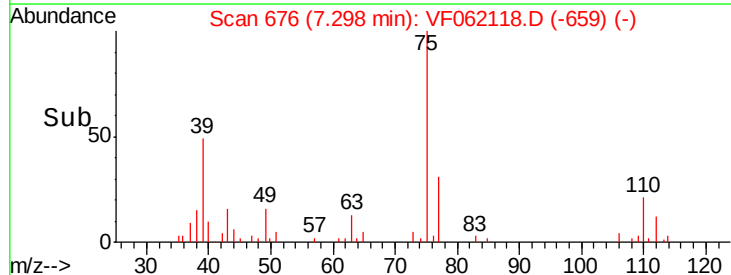
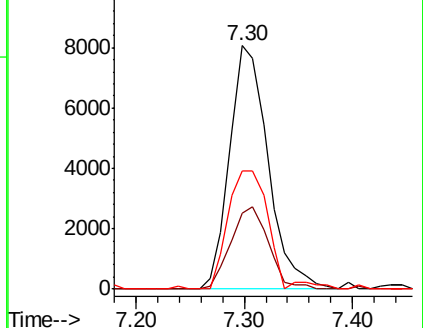
39 48.7 35.9 53.9

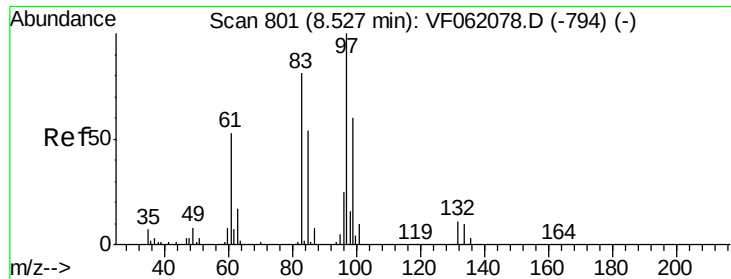


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 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

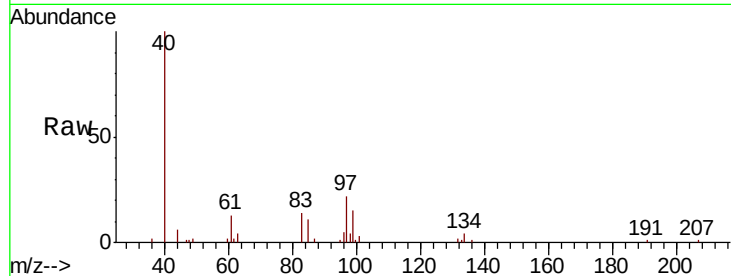
Ion Ratio Lower Upper

97 100

83 65.3 64.6 97.0

85 49.7 43.6 65.4

99 68.6 48.2 72.2

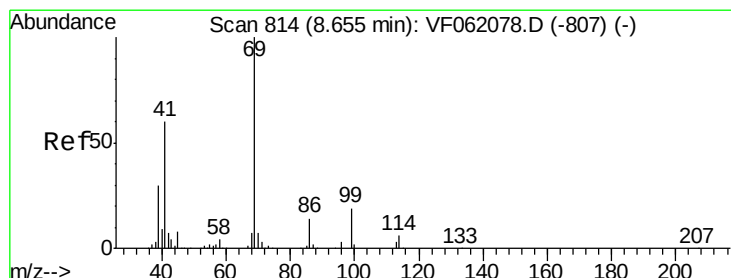
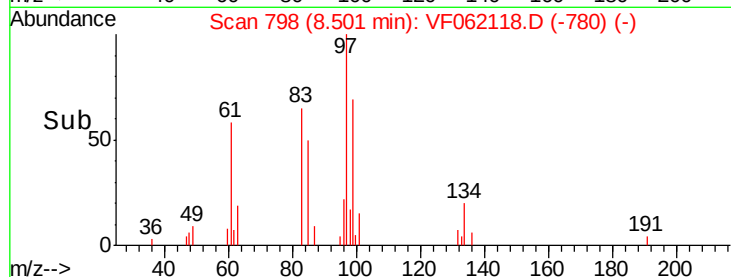
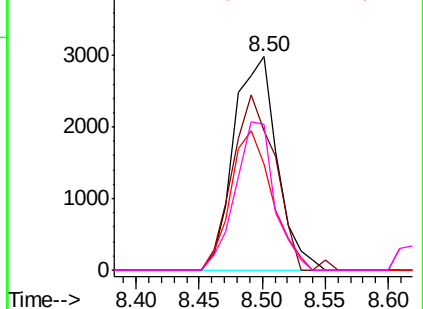


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#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

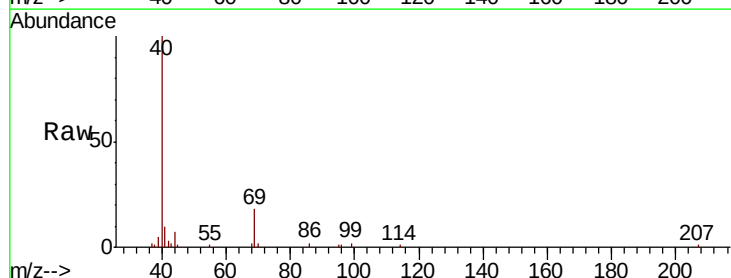
Tgt Ion: 69 Resp: 6416

Ion Ratio Lower Upper

69 100

41 56.4 48.2 72.2

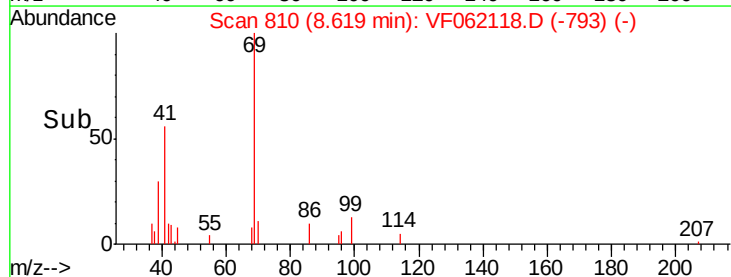
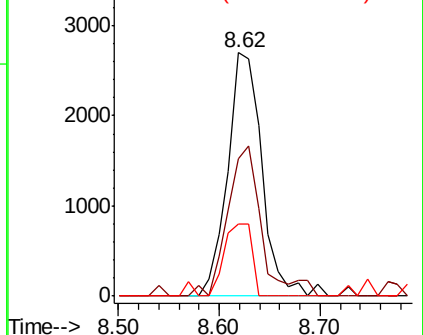
39 29.6 24.0 36.0

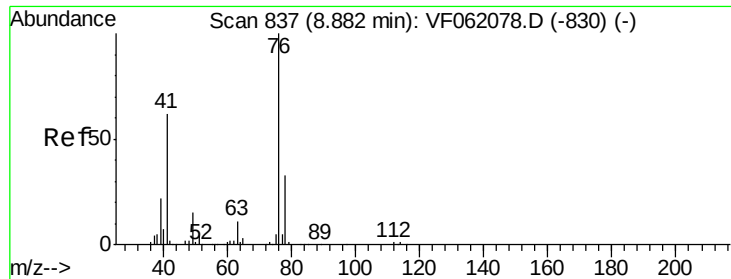


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#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 :

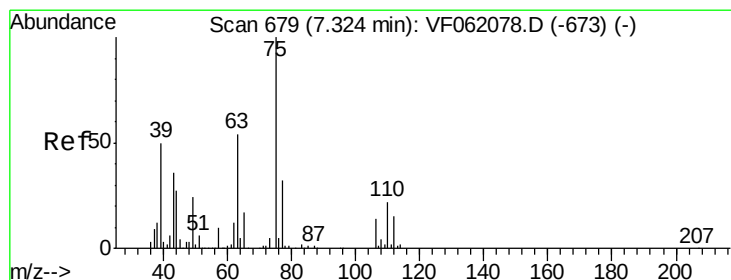
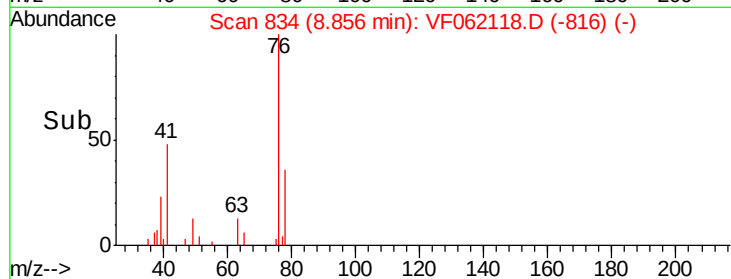
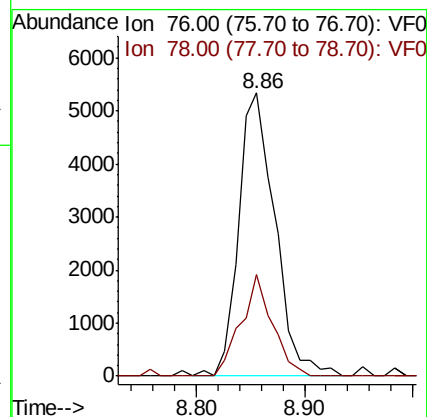
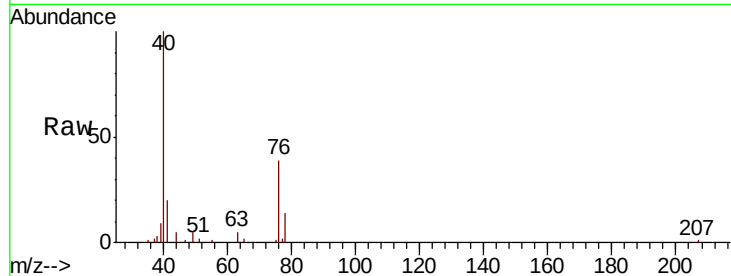
WP022SB439-190318-(13-14)MSD

Tot Ion: 76 Resp: 12494

Ion Ratio Lower Upper

76 100

78 36.1 26.6 39.8



#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

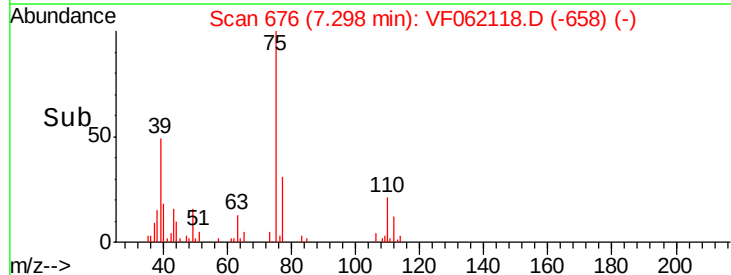
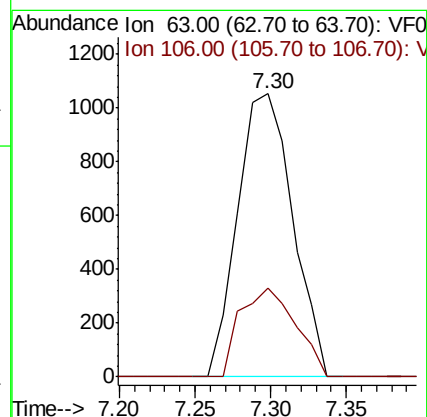
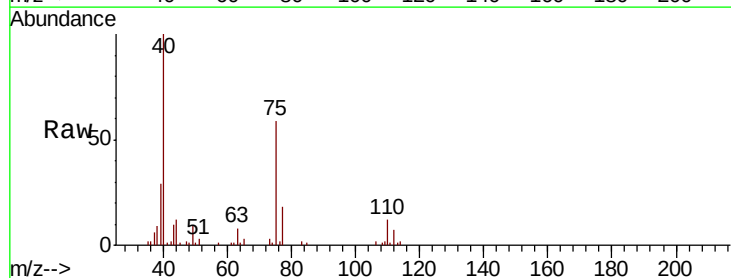
Acq: 23 Mar 2019 15:39

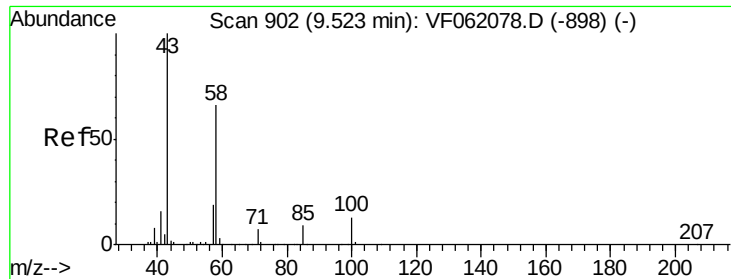
Tgt Ion: 63 Resp: 2672

Ion Ratio Lower Upper

63 100

106 31.2 21.5 32.3

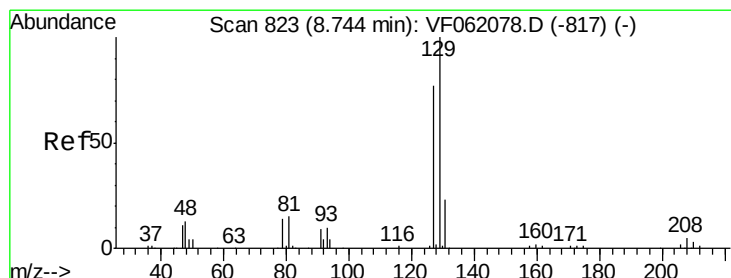
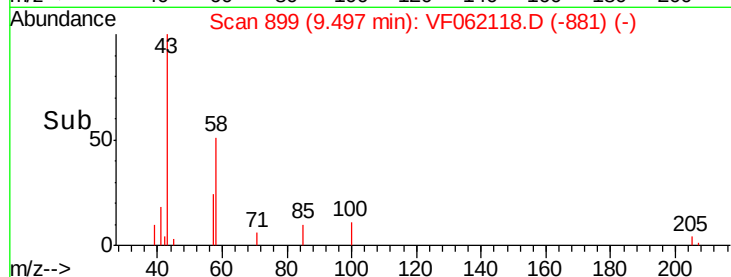
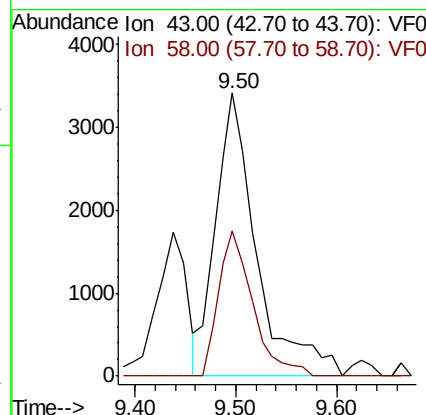
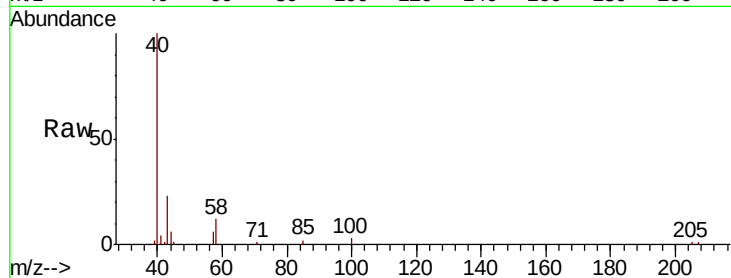




#59
2-Hexanone
Concen: 55.723 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

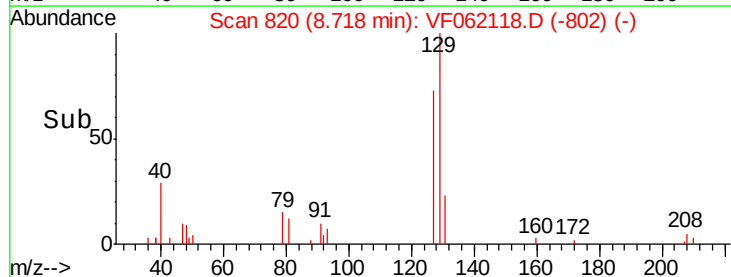
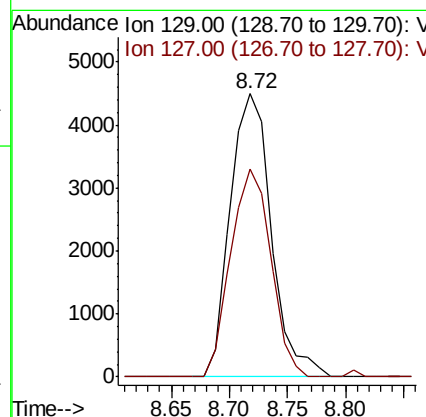
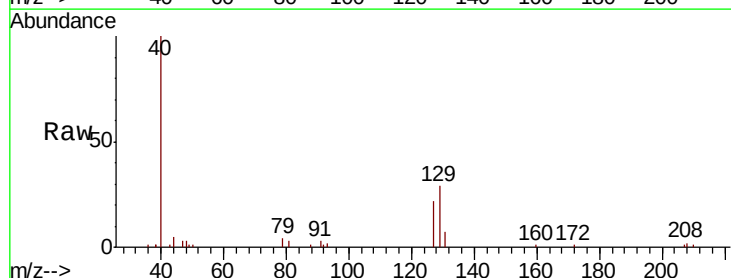
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

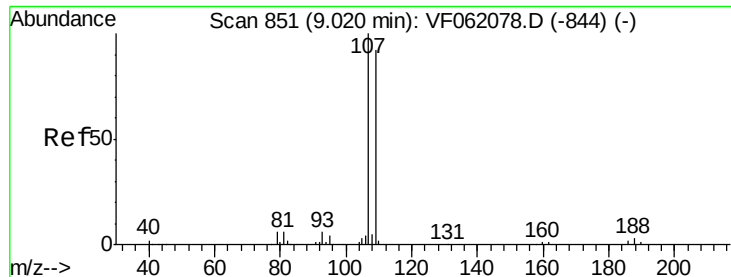
Tot Ion: 43 Resp: 9640
Ion Ratio Lower Upper
43 100
58 51.3 28.8 86.4



#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 :

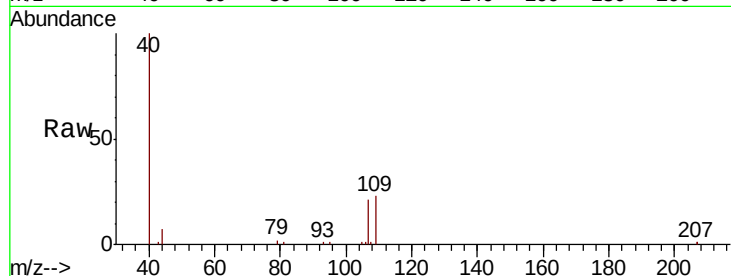
WP022SB439-190318-(13-14)MSD

Tot Ion:107 Resp: 6548

Ion Ratio Lower Upper

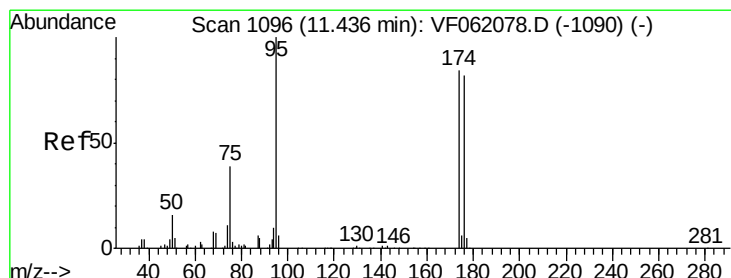
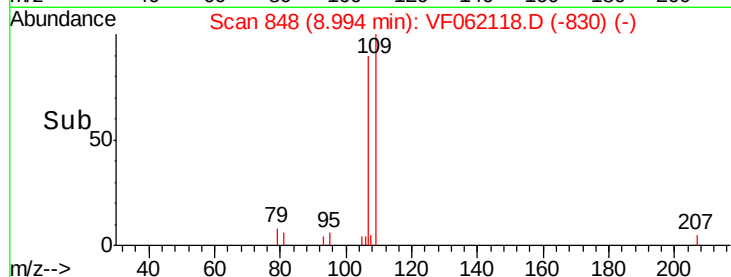
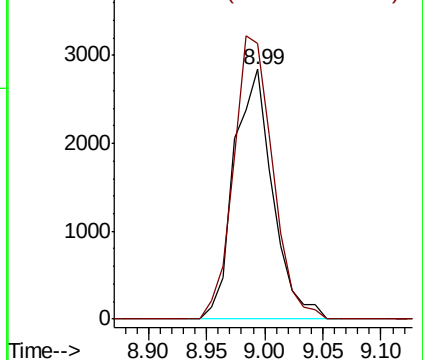
107 100

109 105.1 73.4 110.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#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

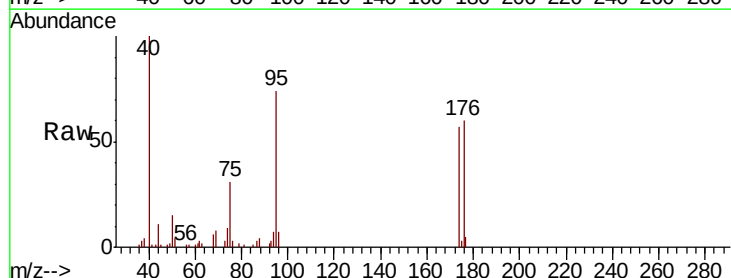
Tgt Ion: 95 Resp: 18493

Ion Ratio Lower Upper

95 100

174 77.0 0.0 168.2

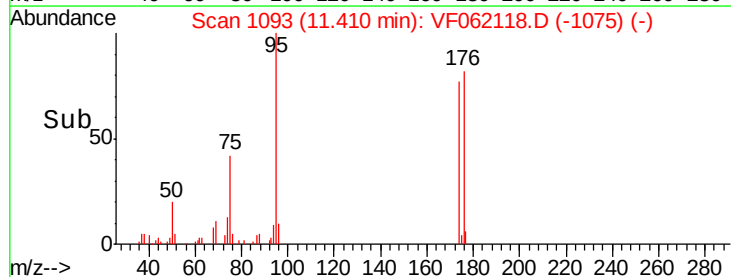
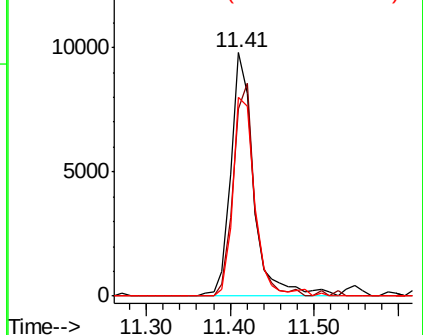
176 81.6 0.0 164.2

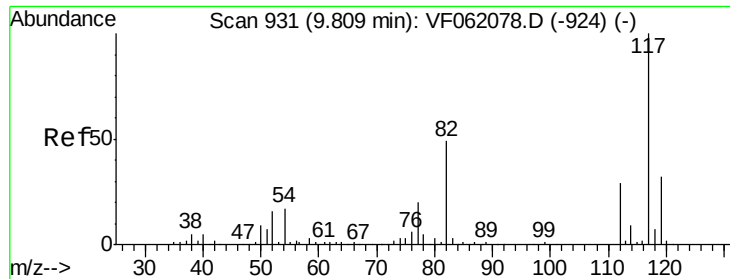


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

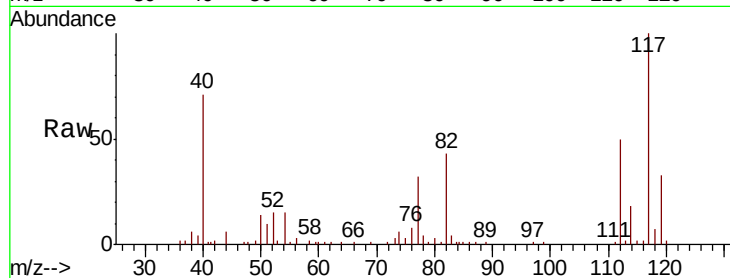




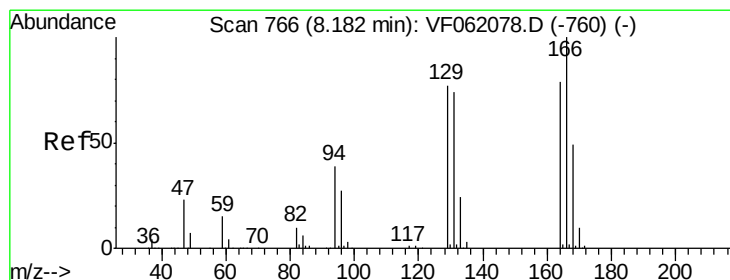
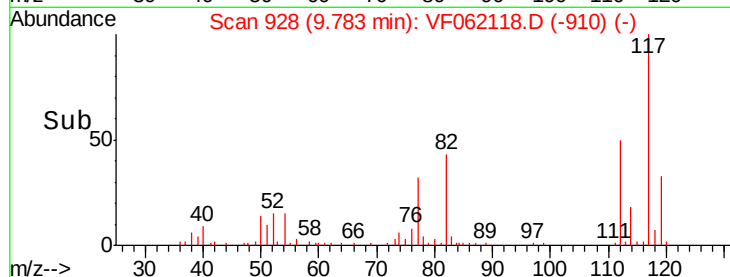
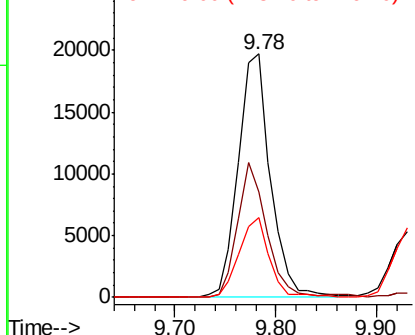
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

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

Tot Ion:117 Resp: 43898
Ion Ratio Lower Upper
117 100
82 43.1 39.2 58.8
119 32.7 25.4 38.2

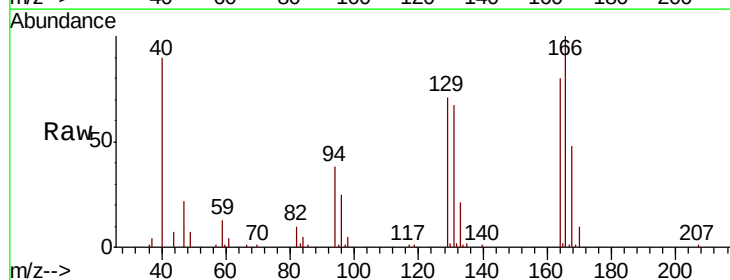


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

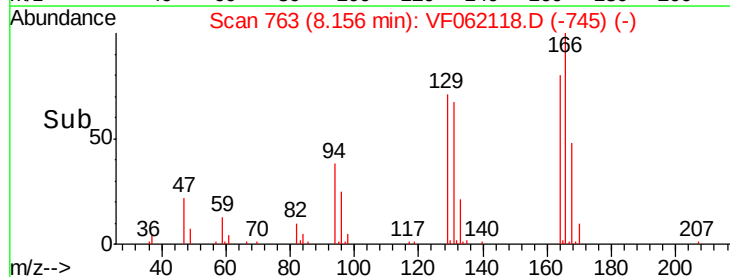
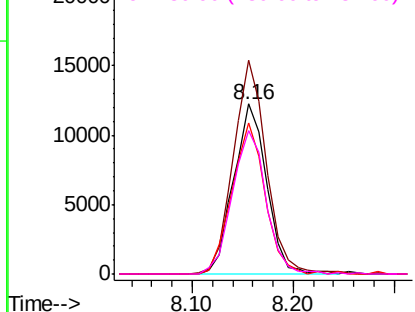


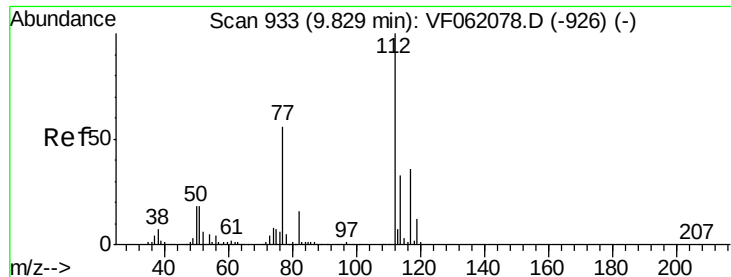
#64
Tetrachloroethene
Concen: 82.348 ug/l
RT: 8.16 min Scan# 763
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

Tgt Ion:164 Resp: 27928
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



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V





#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 :

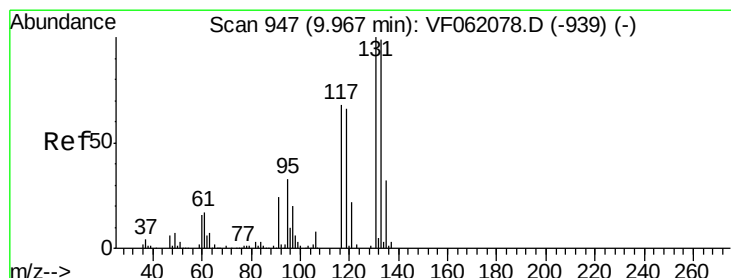
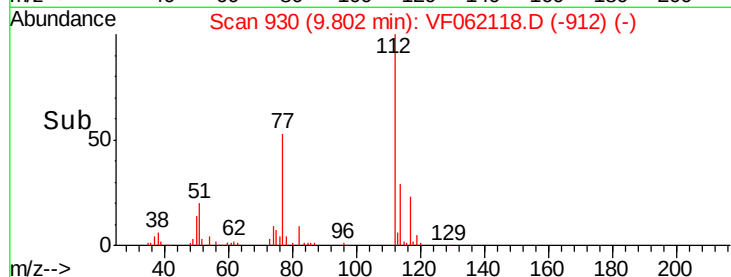
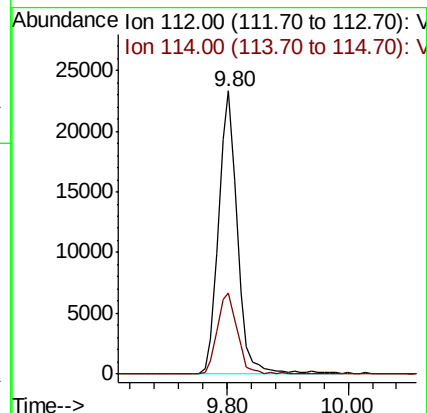
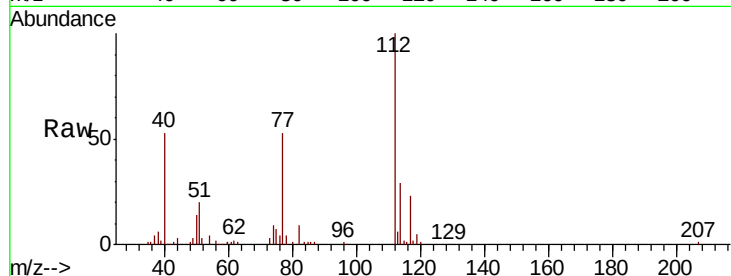
WP022SB439-190318-(13-14)MSD

Tot Ion:112 Resp: 50629

Ion Ratio Lower Upper

112 100

114 28.7 26.0 39.0



#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

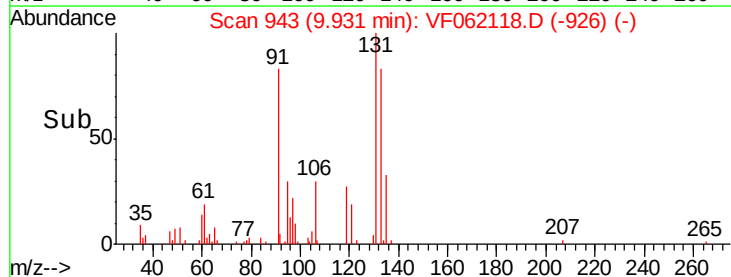
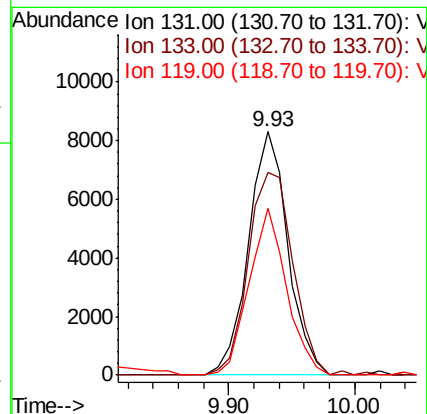
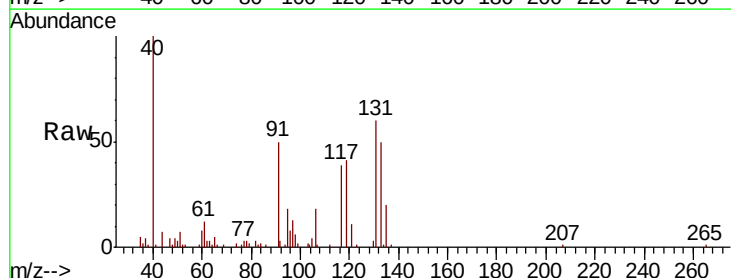
Tgt Ion:131 Resp: 18053

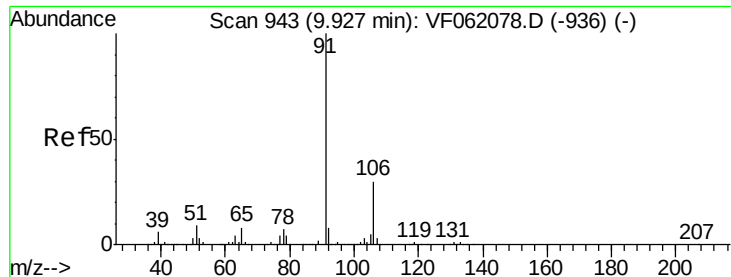
Ion Ratio Lower Upper

131 100

133 83.3 49.3 147.8

119 68.3 33.5 100.4

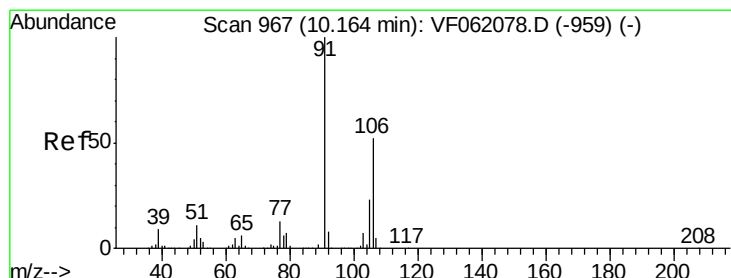
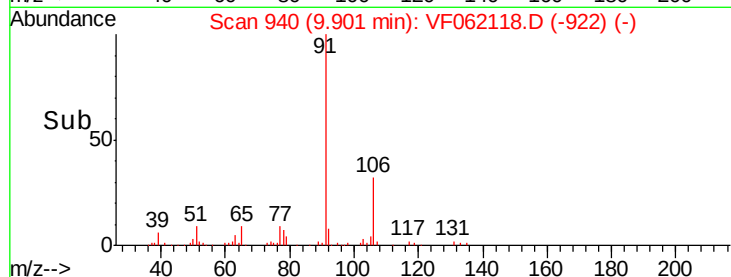
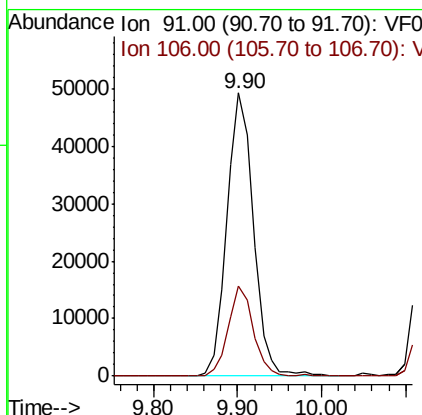
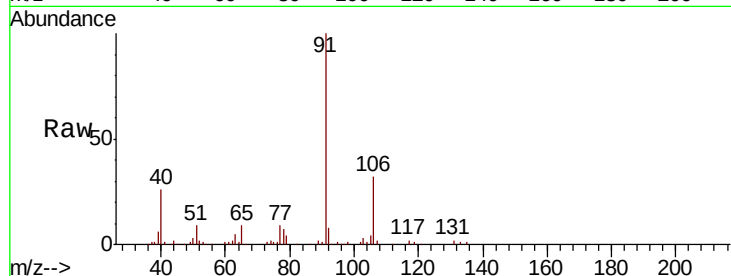




#67
Ethyl Benzene
Concen: 75.612 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

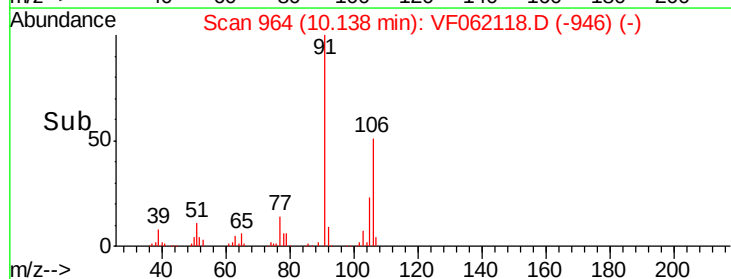
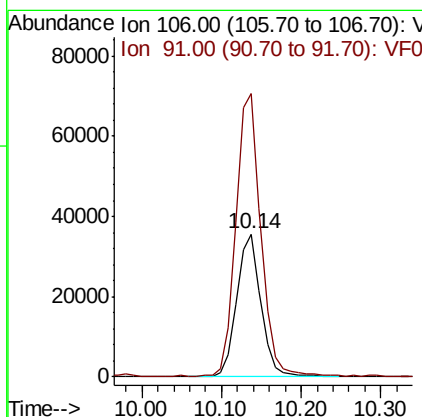
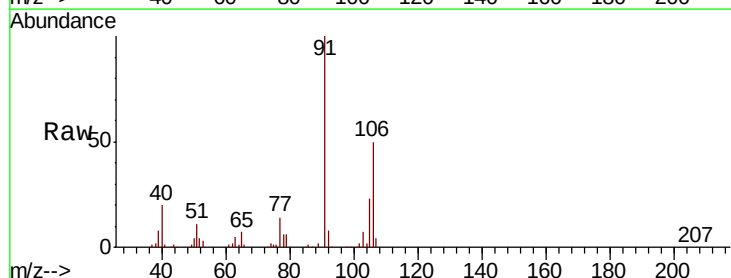
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

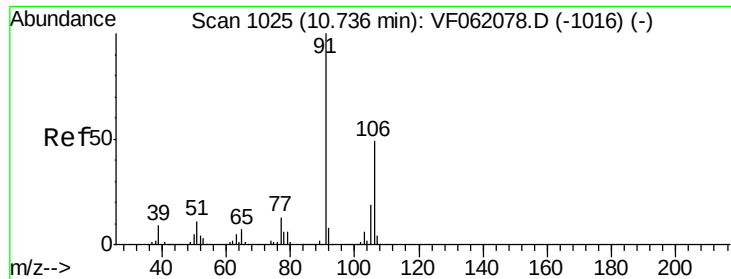
Tot Ion: 91 Resp: 108006
Ion Ratio Lower Upper
91 100
106 31.8 24.0 36.0



#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

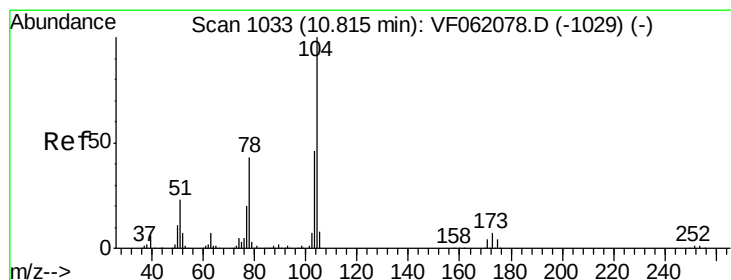
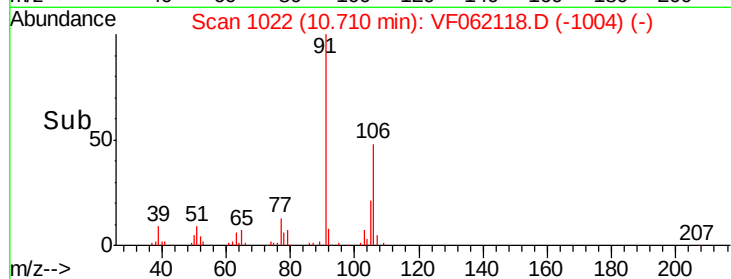
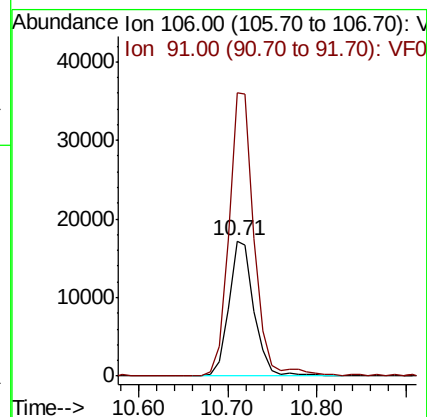
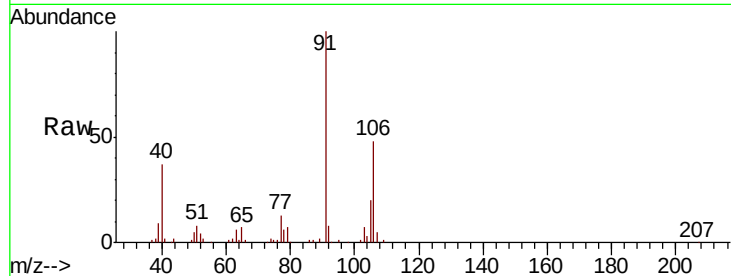




#69
o-Xylene
Concen: 61.567 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.03 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

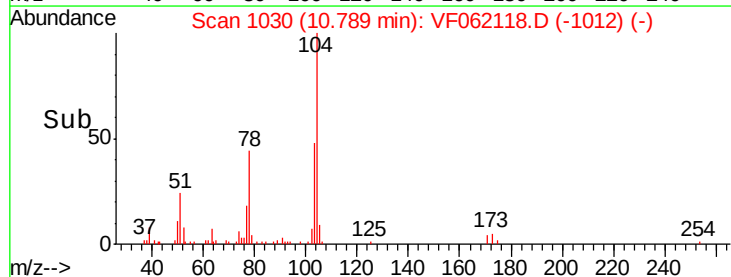
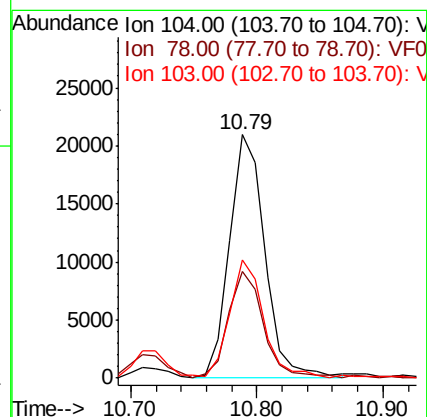
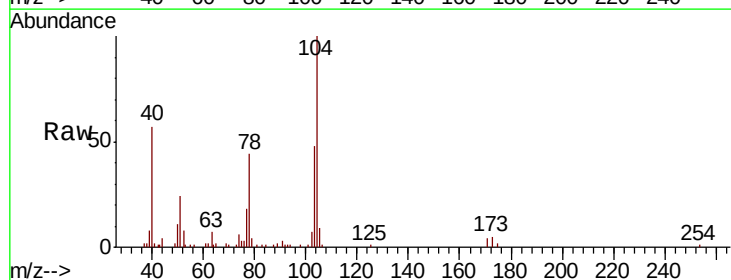
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

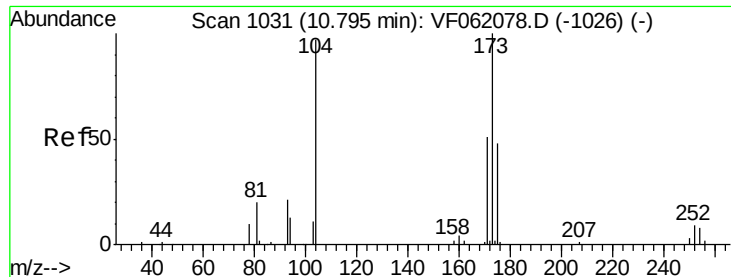
Tot Ion:106 Resp: 34426
Ion Ratio Lower Upper
106 100
91 209.1 102.6 307.8



#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

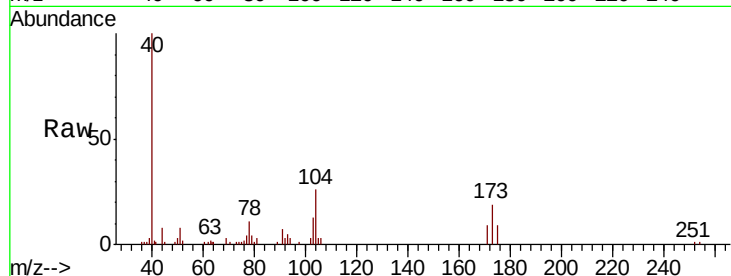
Tot Ion:173 Resp: 4425

Ion Ratio Lower Upper

173 100

175 46.0 24.1 72.4

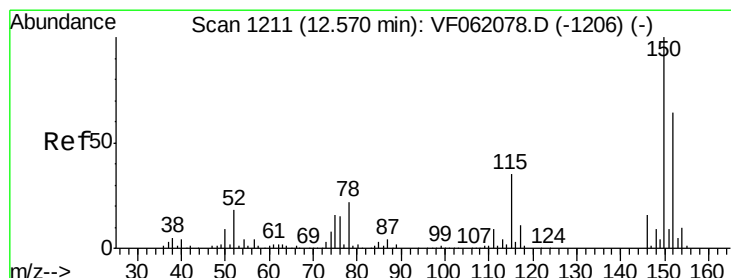
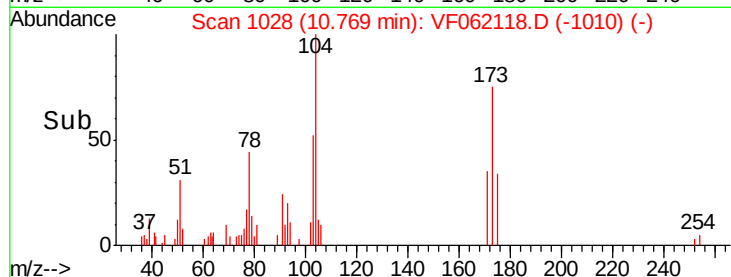
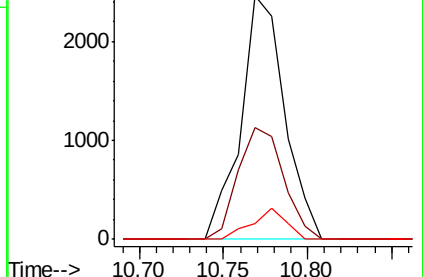
254 6.5 6.2 9.4



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#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

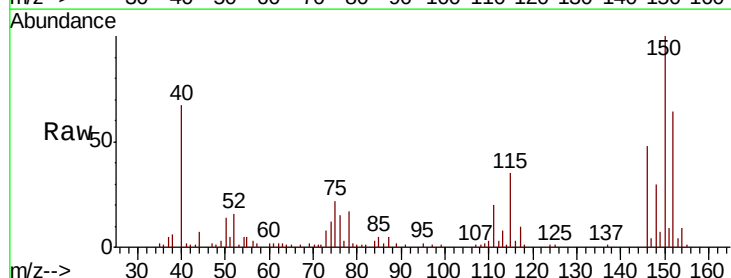
Tgt Ion:152 Resp: 17767

Ion Ratio Lower Upper

152 100

115 55.4 27.7 83.1

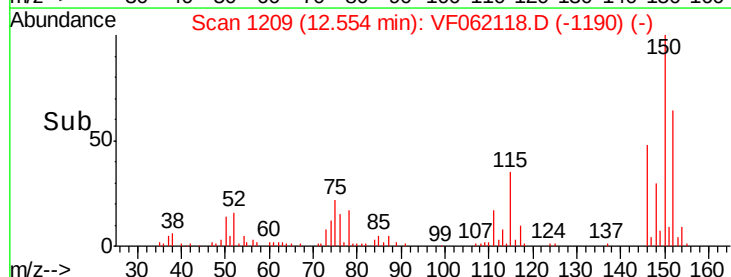
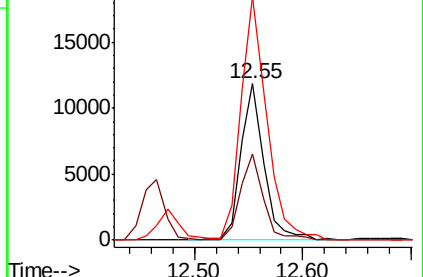
150 156.1 0.0 313.2

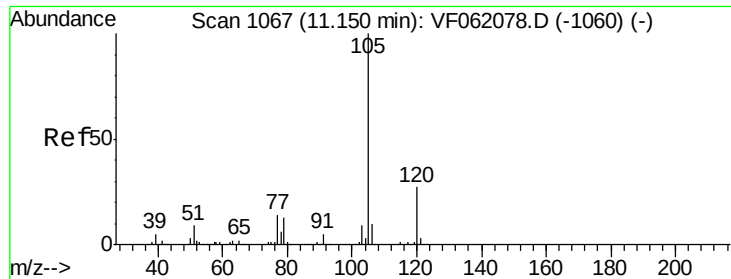


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#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 :

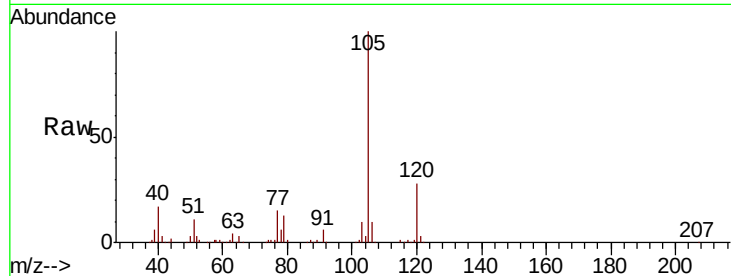
WP022SB439-190318-(13-14)MSD

Tot Ion:105 Resp: 122138

Ion Ratio Lower Upper

105 100

120 27.9 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

80000

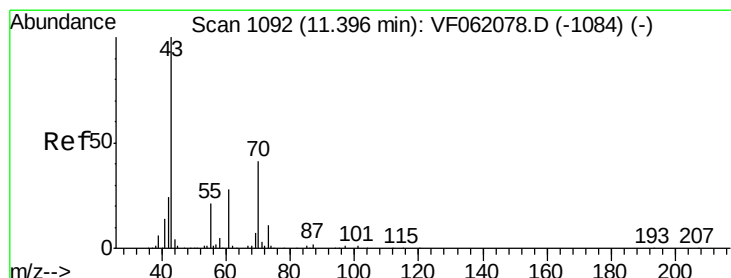
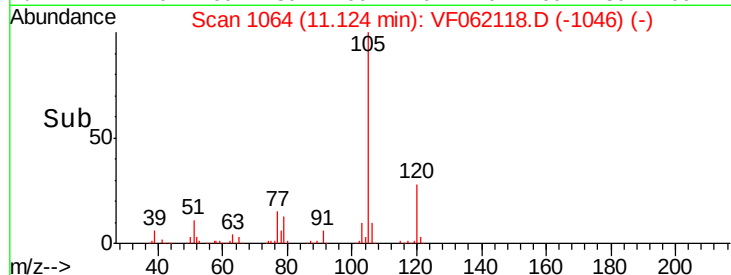
60000

40000

20000

0

Time--> 11.00 11.10 11.20 11.30



#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

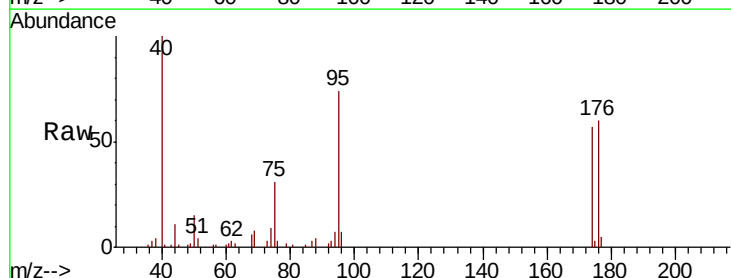
Ion Ratio Lower Upper

43 100

70 0.0 32.9 49.3#

55 0.0 17.1 25.7#

61 118.4 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

600

500

400

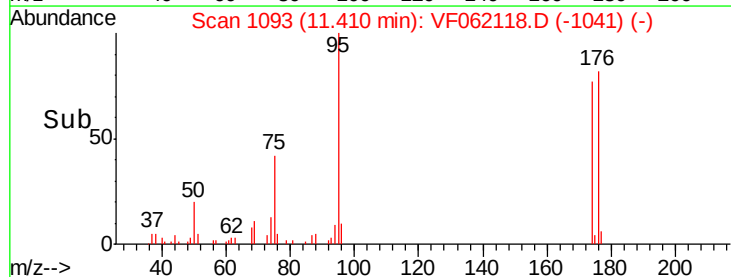
300

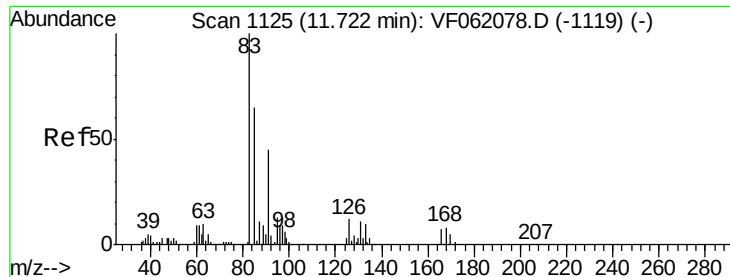
200

100

0

Time--> 11.40 11.41 11.42 11.43 11.44 11.45 11.46 11.47 11.48 11.49 11.50





#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

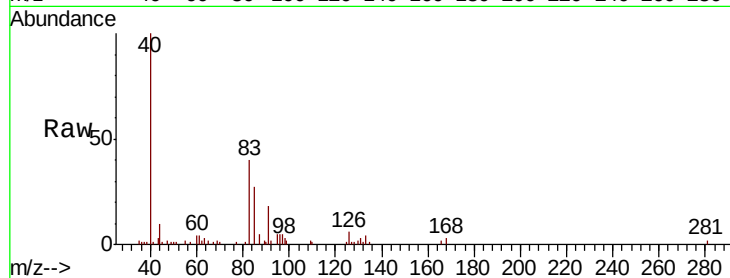
Tot Ion: 83 Resp: 8709

Ion Ratio Lower Upper

83 100

131 7.6 5.3 15.8

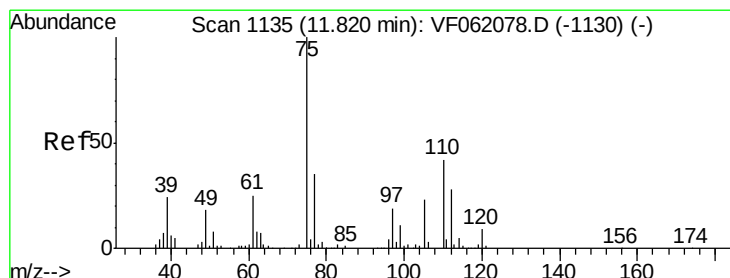
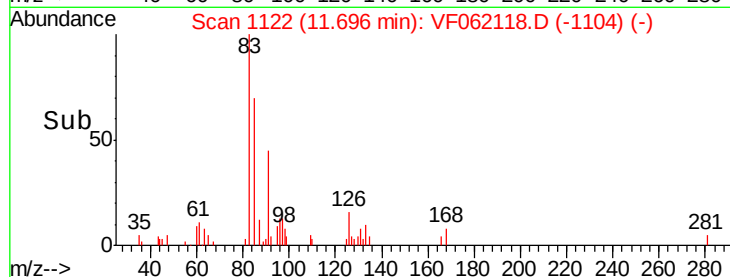
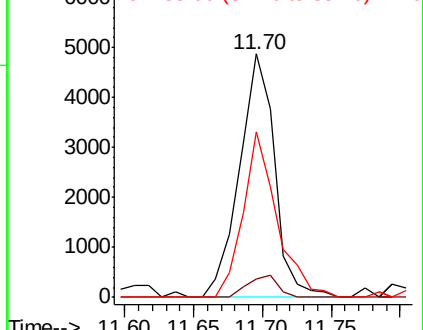
85 68.2 32.6 98.0



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 37.665 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.03 min

Lab File: VF062118.D

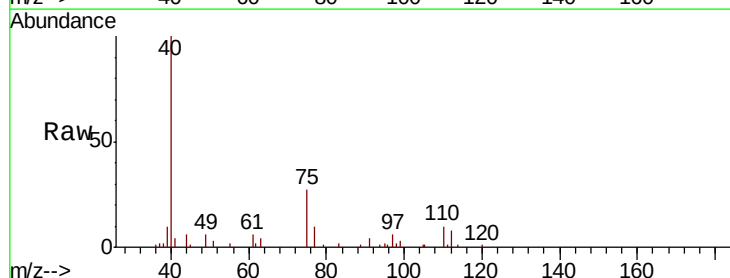
Acq: 23 Mar 2019 15:39

Tgt Ion: 75 Resp: 5690

Ion Ratio Lower Upper

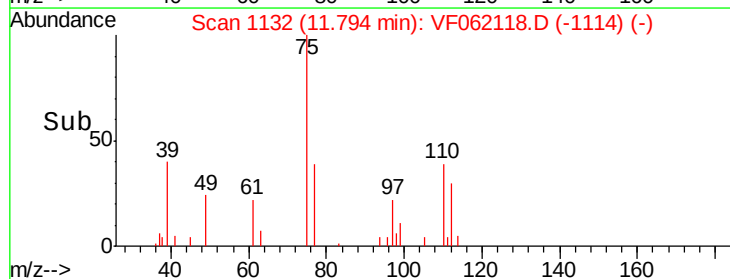
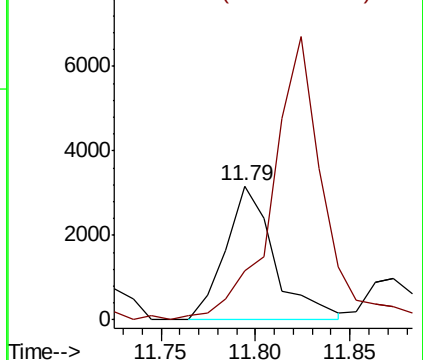
75 100

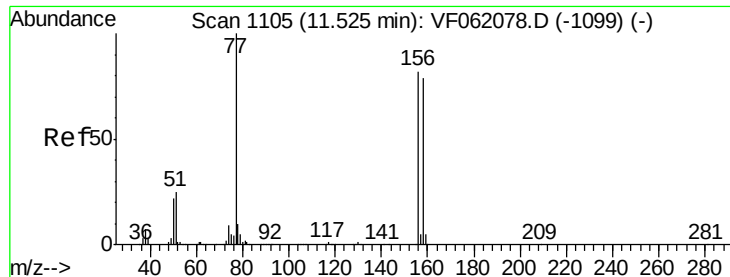
77 37.2 17.8 53.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#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

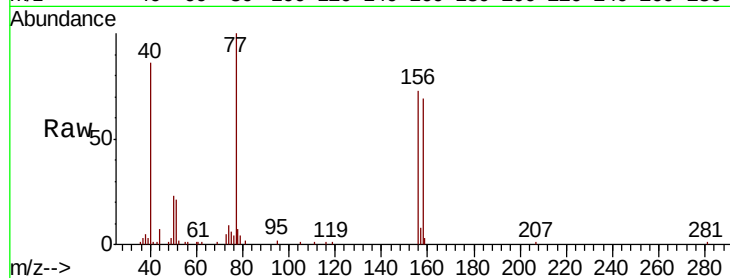
Tot Ion:156 Resp: 17503

Ion Ratio Lower Upper

156 100

77 137.7 61.3 183.9

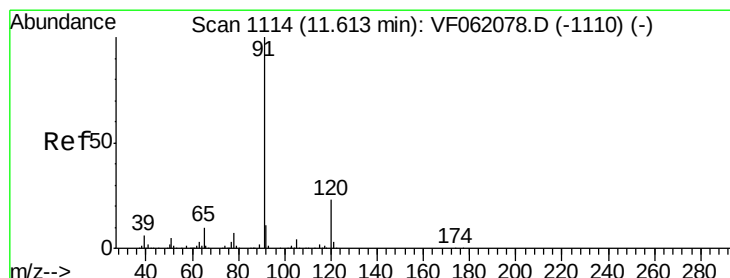
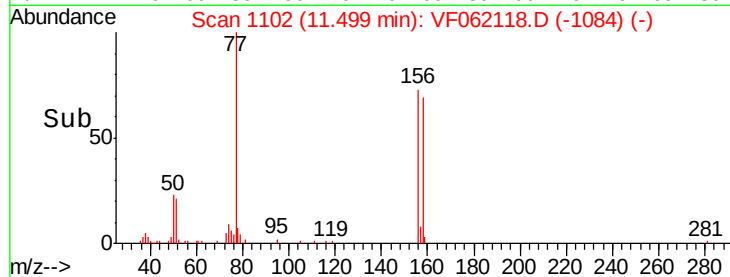
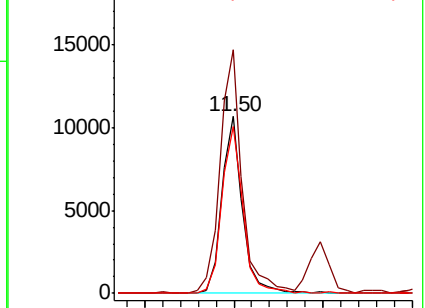
158 94.5 48.6 145.9



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 96.308 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062118.D

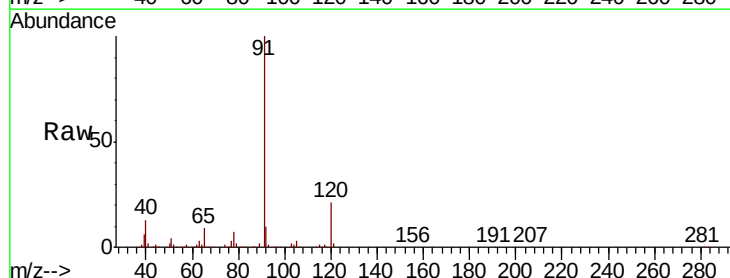
Acq: 23 Mar 2019 15:39

Tgt Ion: 91 Resp: 139811

Ion Ratio Lower Upper

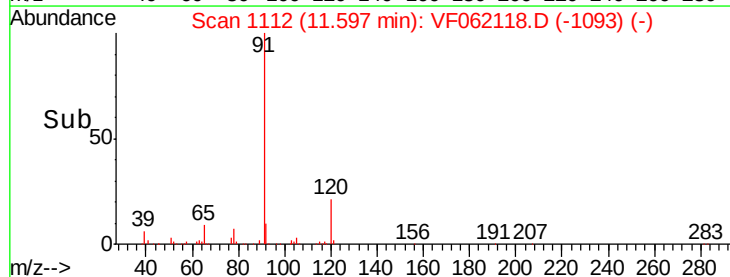
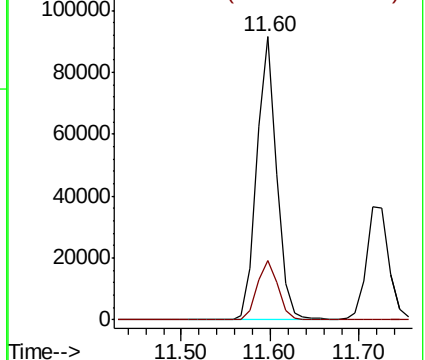
91 100

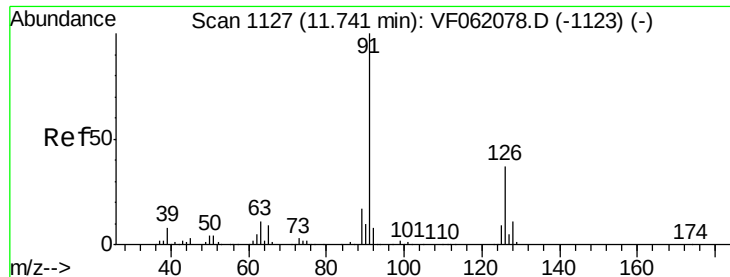
120 20.9 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#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 :

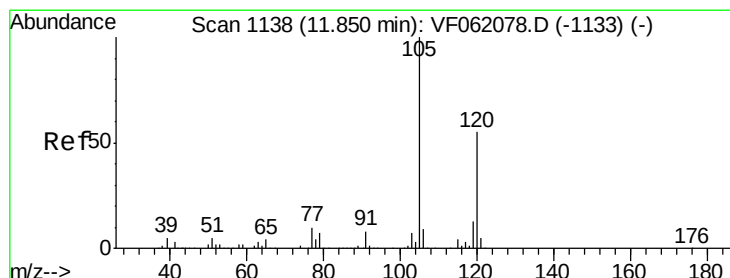
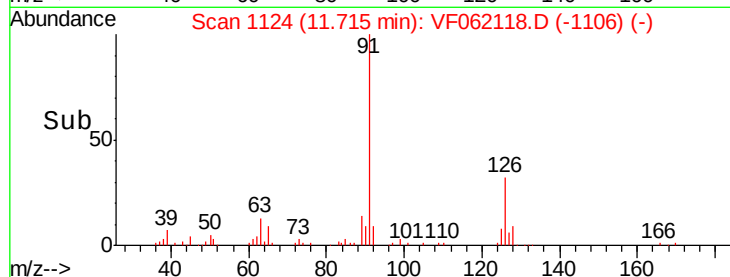
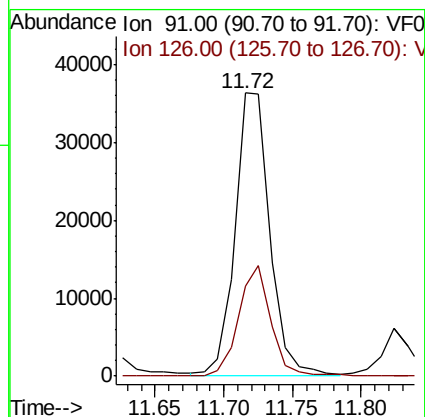
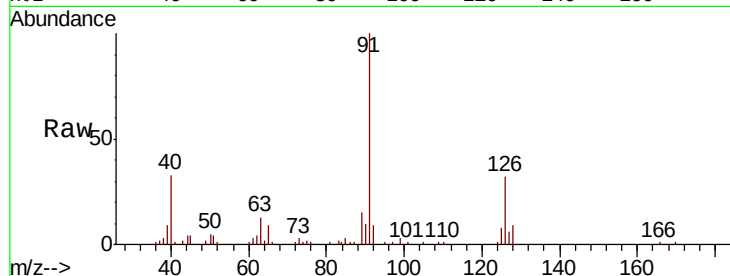
WP022SB439-190318-(13-14)MSD

Tot Ion: 91 Resp: 63533

Ion Ratio Lower Upper

91 100

126 31.8 18.3 54.8



#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

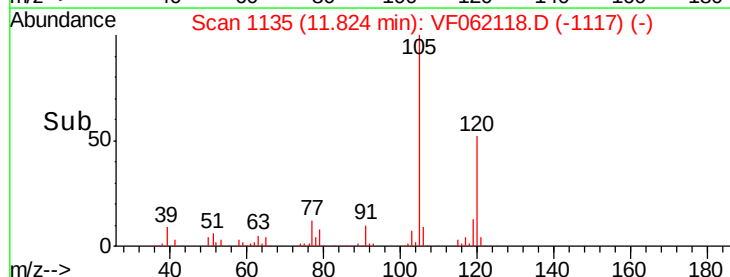
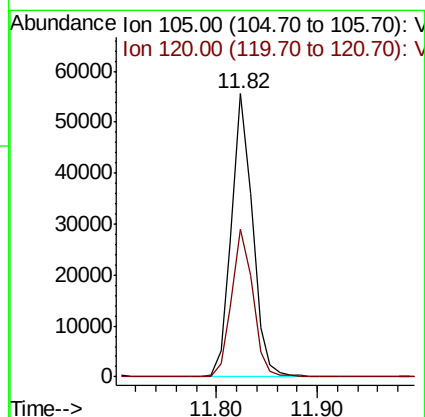
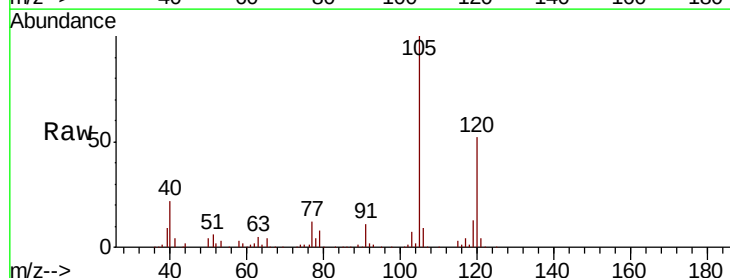
Acq: 23 Mar 2019 15:39

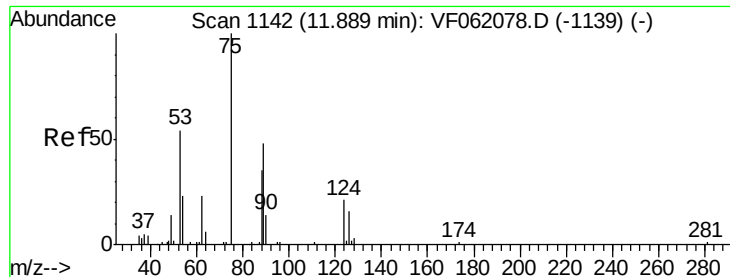
Tgt Ion:105 Resp: 81527

Ion Ratio Lower Upper

105 100

120 52.1 27.8 83.3

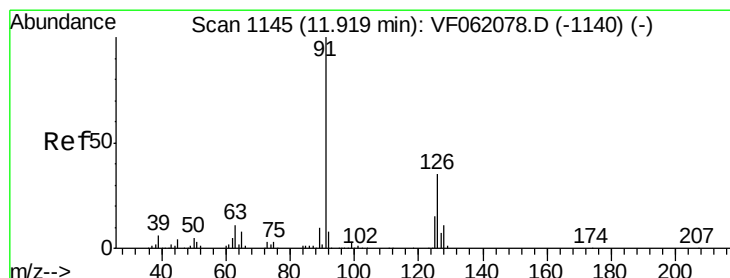
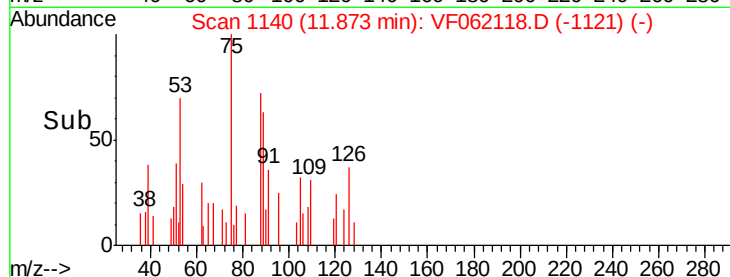
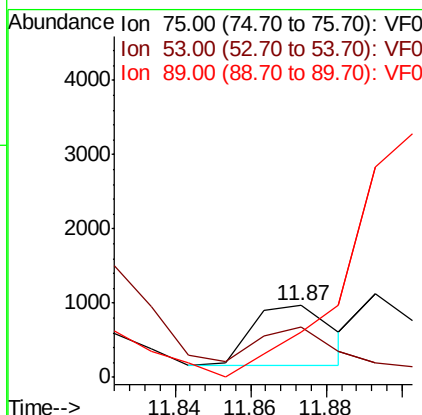
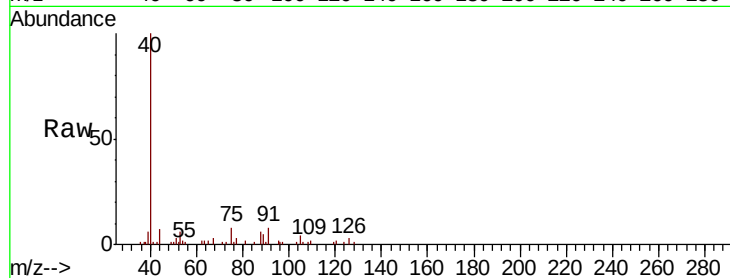




#81
trans-1,4-Dichloro-2-butene
Concen: 19.608 ug/l
RT: 11.87 min Scan# 1140
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

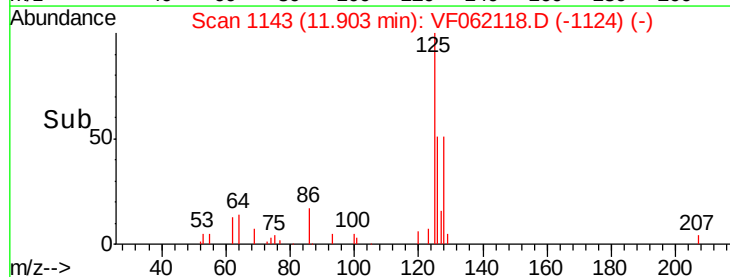
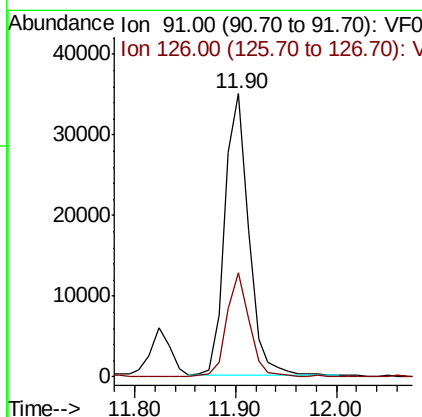
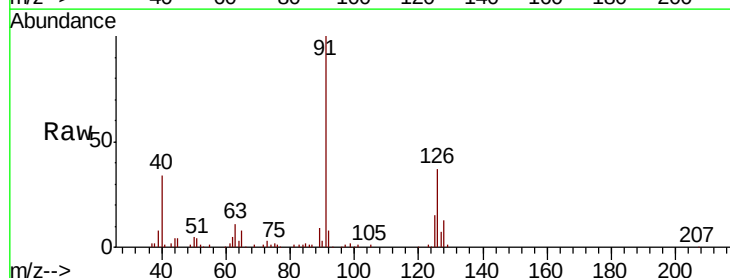
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

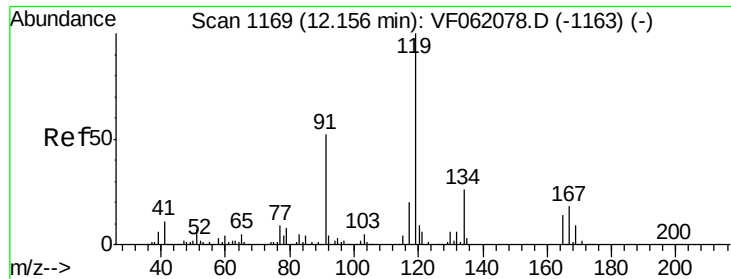
Tot Ion: 75 Resp: 1207
Ion Ratio Lower Upper
75 100
53 69.6 49.4 74.0
89 62.8 40.6 60.8#



#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

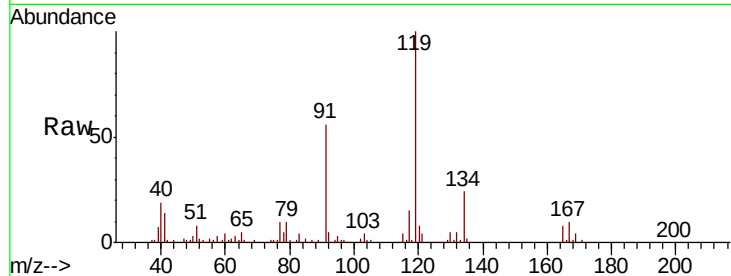




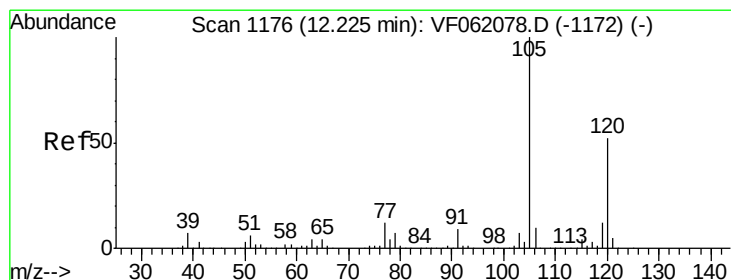
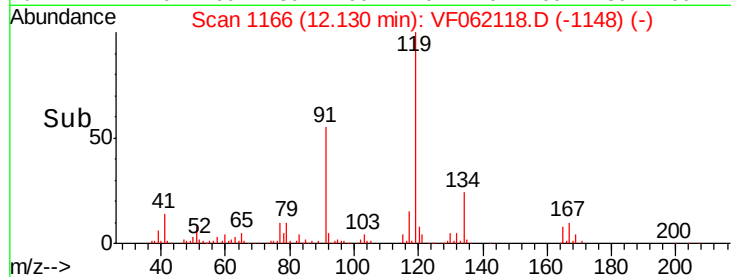
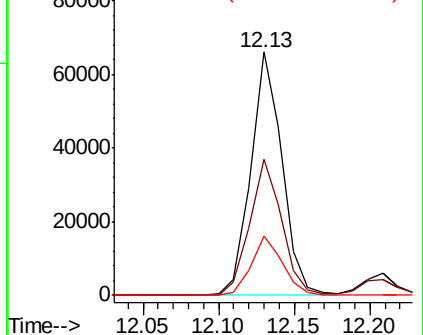
#83
 tert-Butylbenzene
 Concen: 88.578 ug/l
 RT: 12.13 min Scan# 1166
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

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

Tot Ion:119 Resp: 95353
 Ion Ratio Lower Upper
 119 100
 91 55.9 26.1 78.2
 134 24.1 12.8 38.4

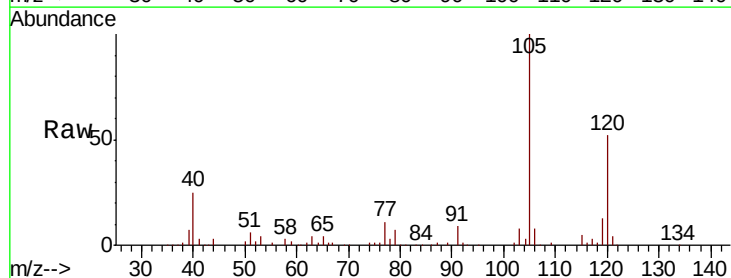


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): VF0
 Ion 134.00 (133.70 to 134.70): V

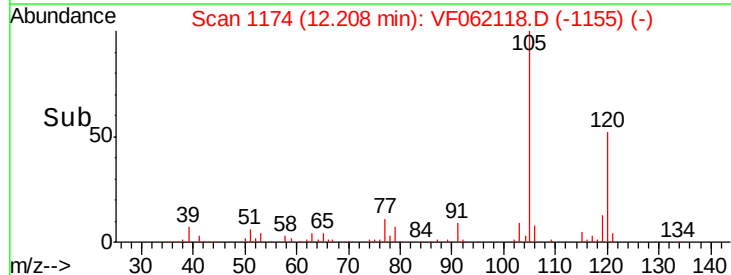
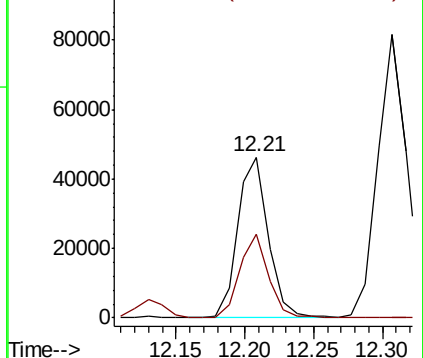


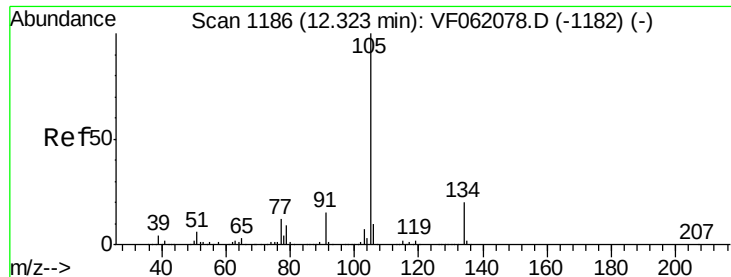
#84
 1,2,4-Trimethylbenzene
 Concen: 71.336 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

Tgt Ion:105 Resp: 71914
 Ion Ratio Lower Upper
 105 100
 120 52.2 26.1 78.2



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#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 :

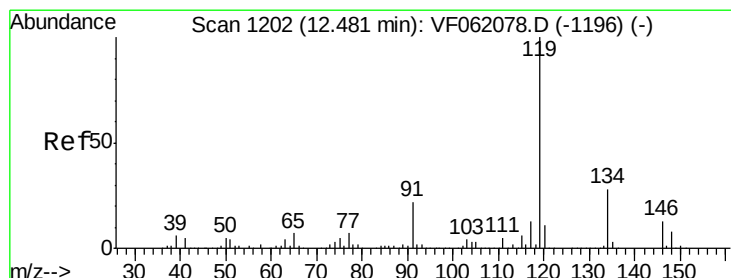
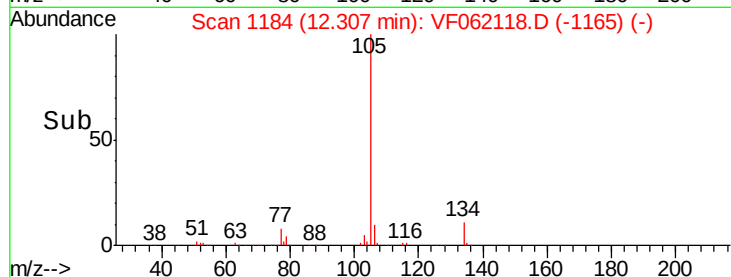
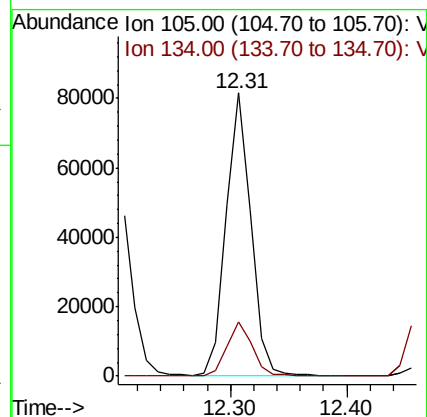
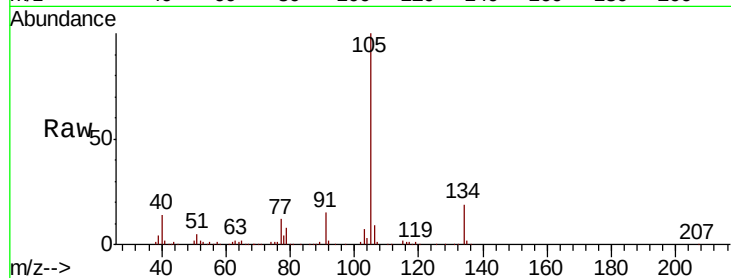
WP022SB439-190318-(13-14)MSD

Tot Ion:105 Resp: 120441

Ion Ratio Lower Upper

105 100

134 19.1 10.2 30.4



#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

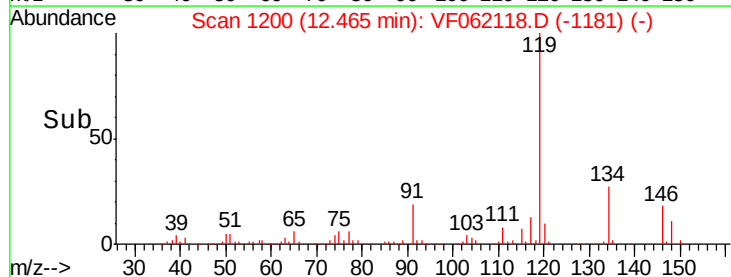
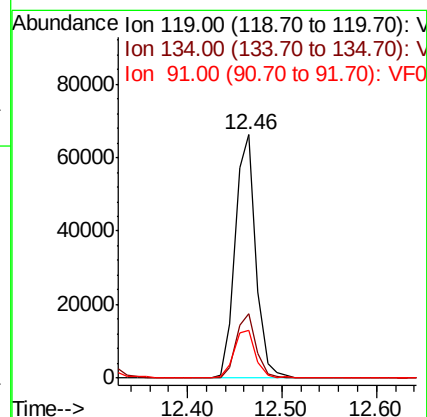
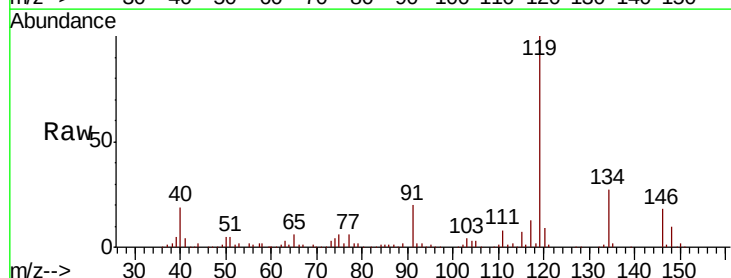
Tgt Ion:119 Resp: 100550

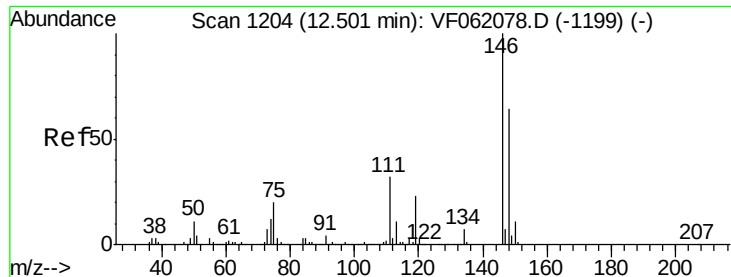
Ion Ratio Lower Upper

119 100

134 26.6 14.0 42.0

91 19.7 10.8 32.4

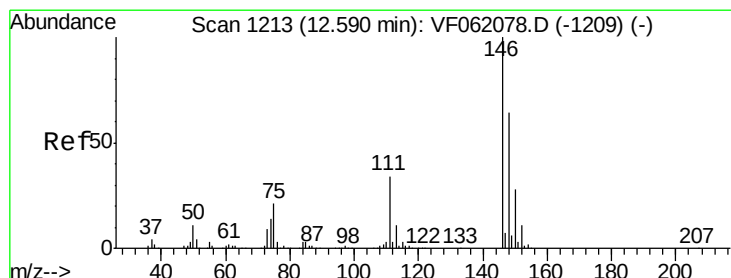
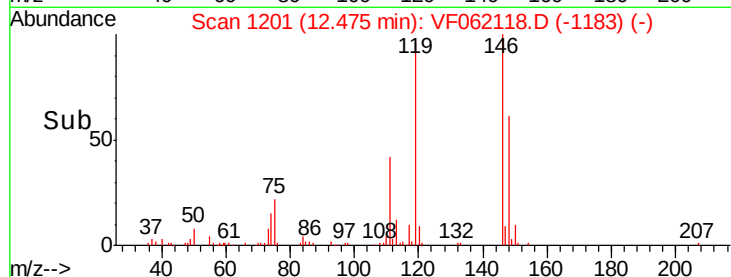
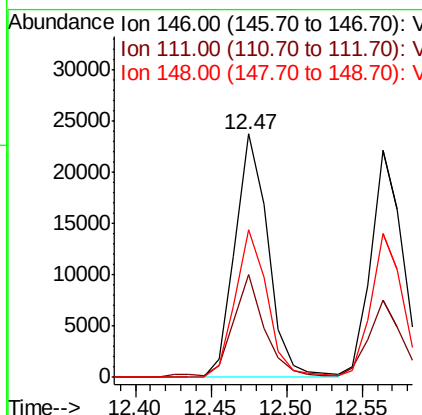
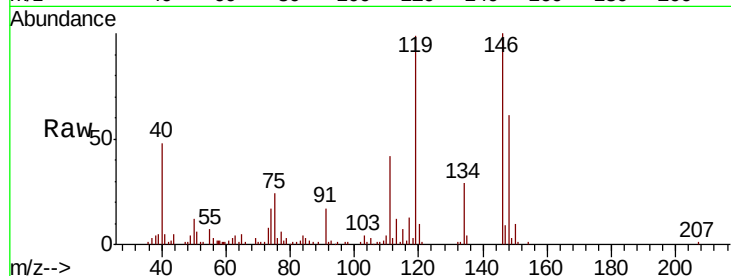




#87
 1,3-Dichlorobenzene
 Concen: 63.878 ug/l
 RT: 12.47 min Scan# 1201
 Delta R.T. -0.03 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

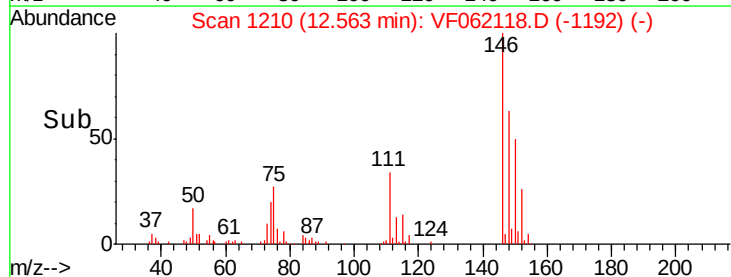
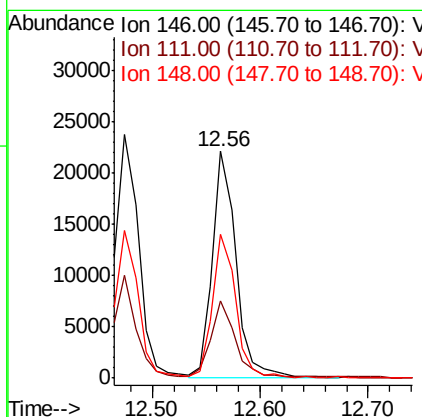
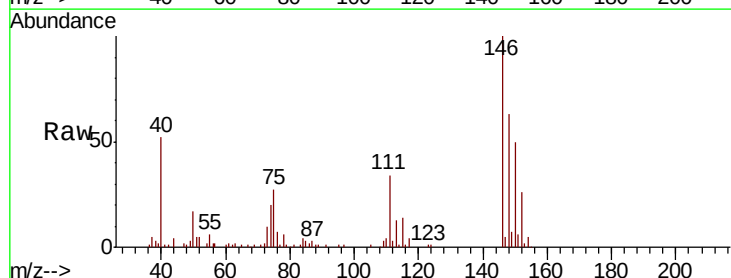
Instrument :
 MSVOA_F
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

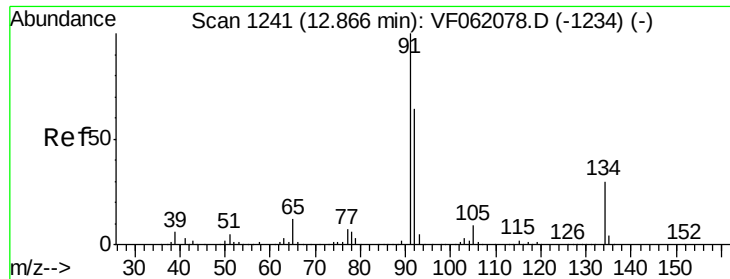
Tot Ion:146 Resp: 36249
 Ion Ratio Lower Upper
 146 100
 111 42.5 16.1 48.3
 148 60.9 31.9 95.7



#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

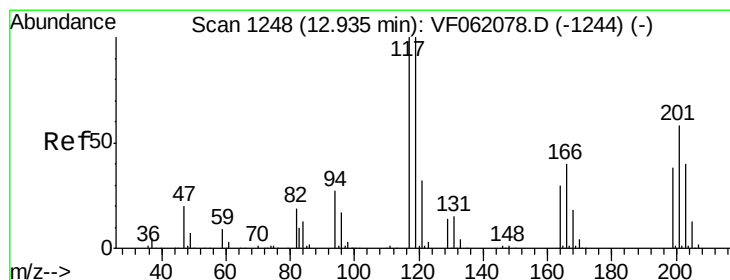
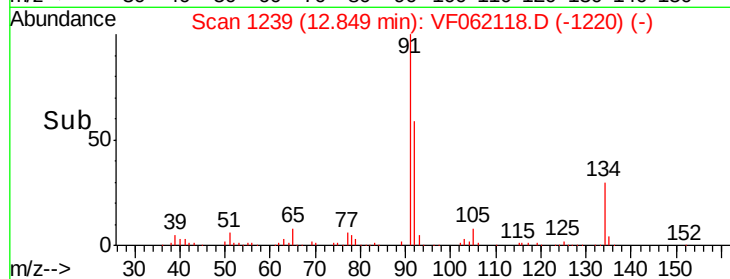
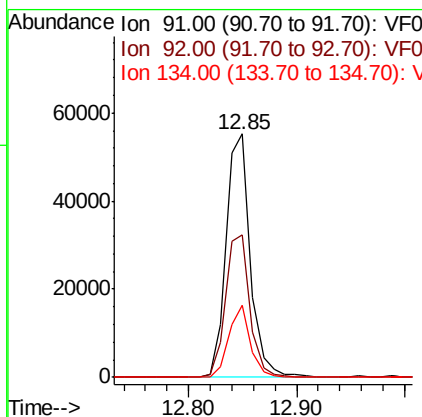
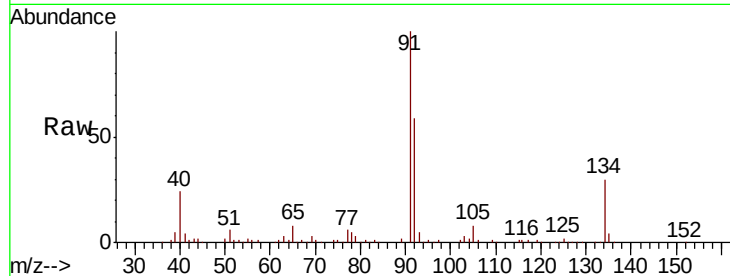




#89
n-Butylbenzene
Concen: 74.854 ug/l
RT: 12.85 min Scan# 1239
Delta R.T. -0.02 min
Lab File: VF062118.D
Acq: 23 Mar 2019 15:39

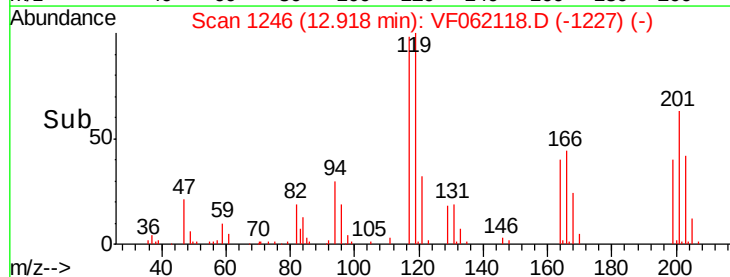
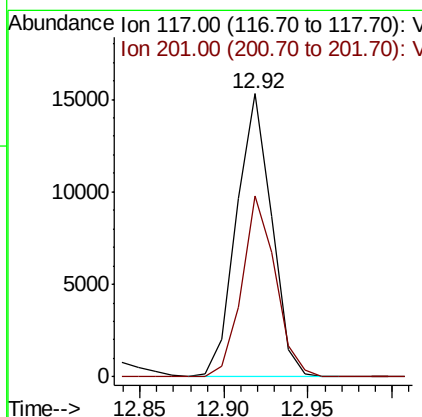
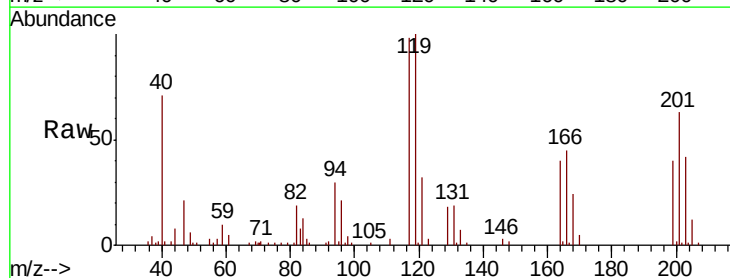
Instrument :
MSVOA_F
ClientSampleId :
WP022SB439-190318-(13-14)MSD

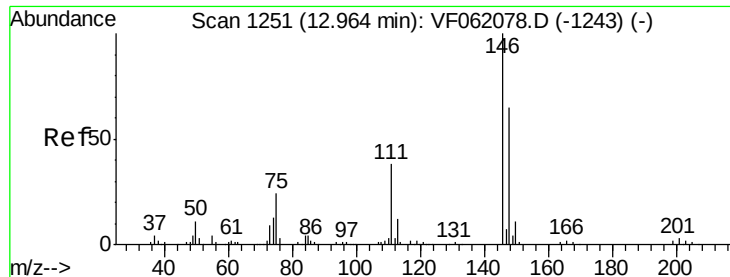
Tot Ion: 91 Resp: 86164
Ion Ratio Lower Upper
91 100
92 58.8 31.9 95.5
134 29.8 14.9 44.9



#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

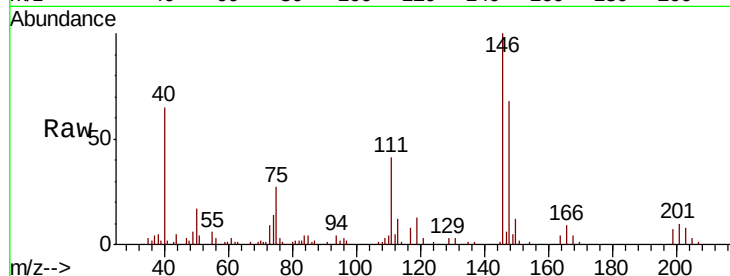
Tot Ion:146 Resp: 29863

Ion Ratio Lower Upper

146 100

111 40.9 19.1 57.3

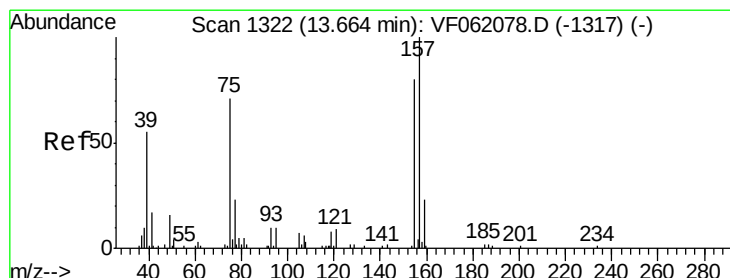
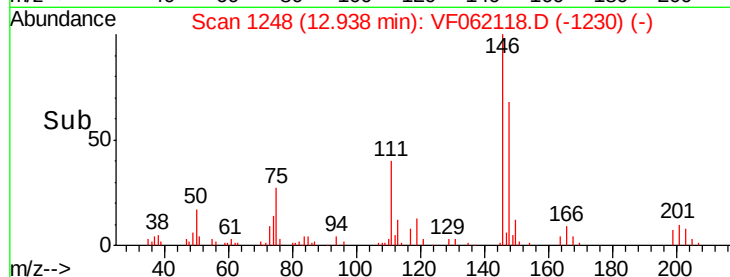
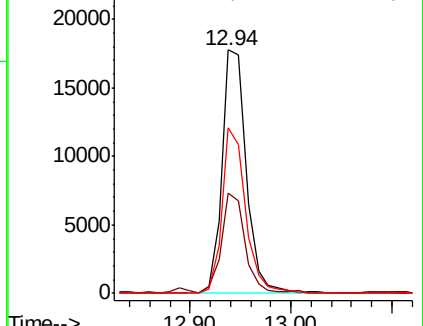
148 68.2 32.8 98.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#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

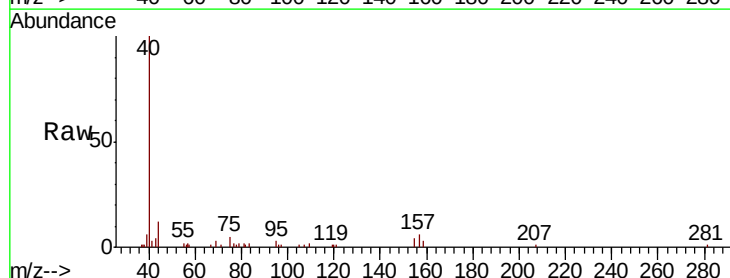
Tgt Ion: 75 Resp: 922

Ion Ratio Lower Upper

75 100

155 75.0 56.1 168.4

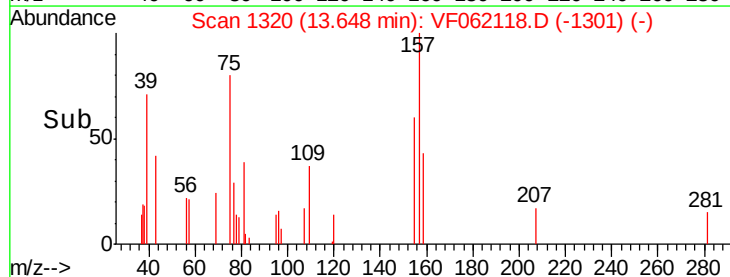
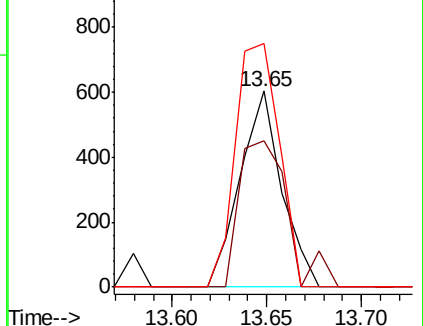
157 124.4 70.4 211.2

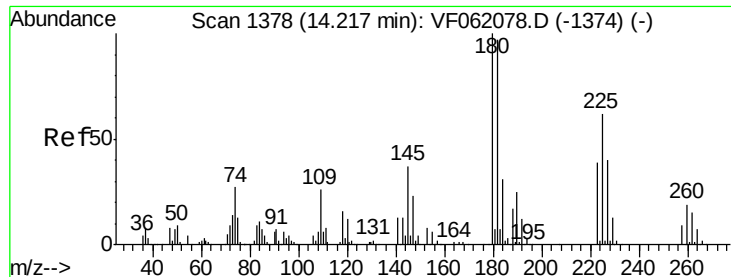


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

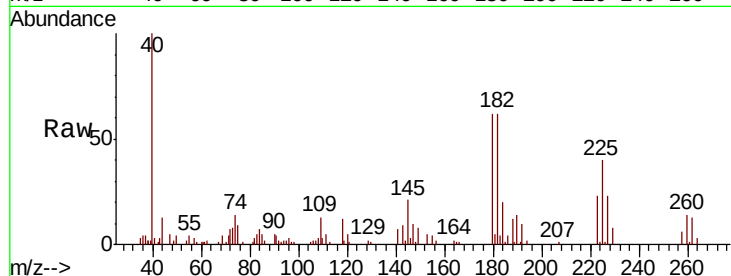




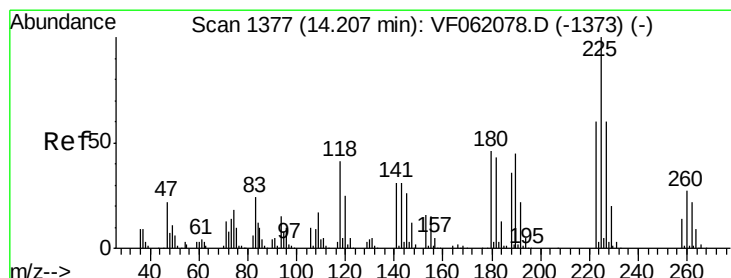
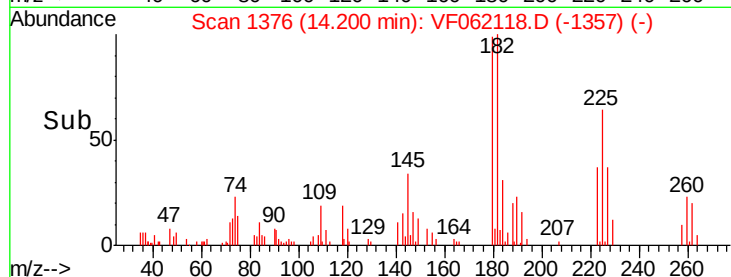
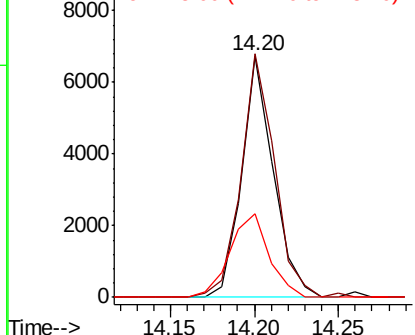
#93
 1,2,4-Trichlorobenzene
 Concen: 23.680 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

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

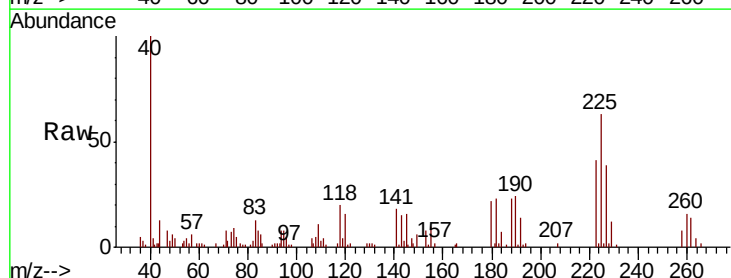


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

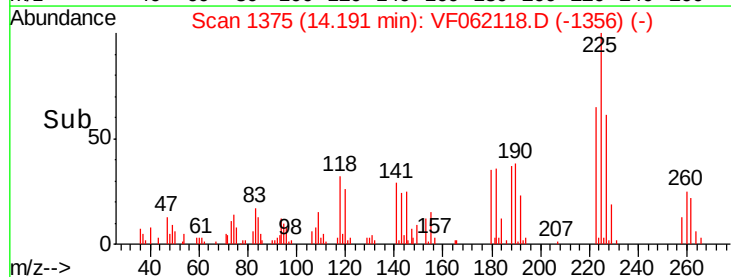
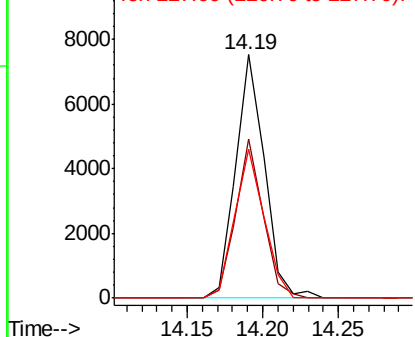


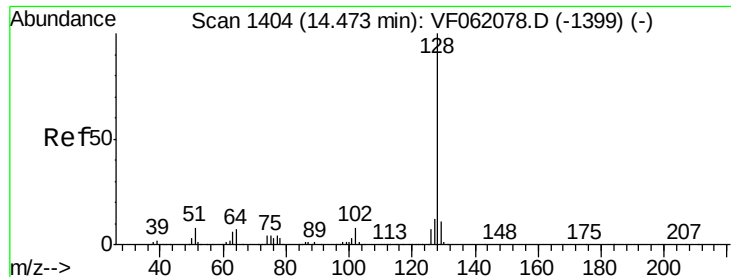
#94
 Hexachlorobutadiene
 Concen: 40.376 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.02 min
 Lab File: VF062118.D
 Acq: 23 Mar 2019 15:39

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

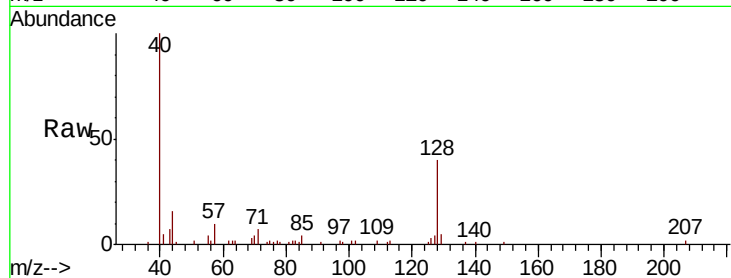
Tot Ion:128 Resp: 6376

Ion Ratio Lower Upper

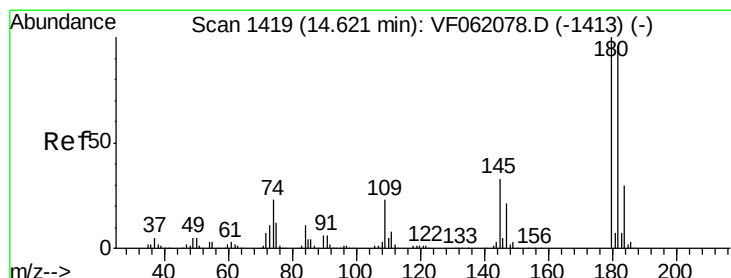
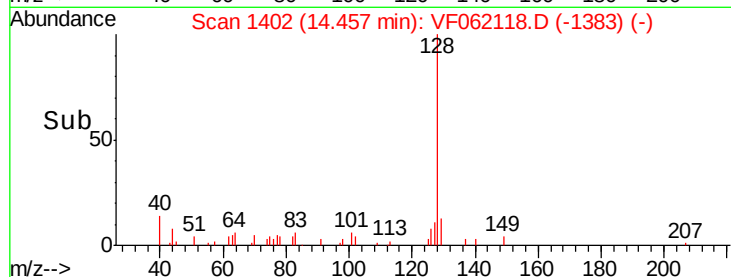
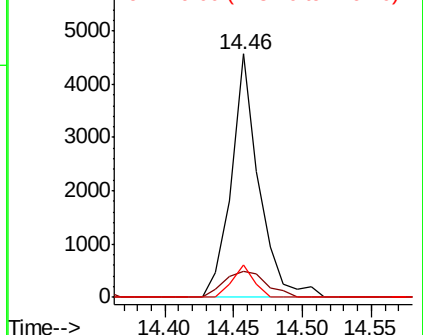
128 100

127 10.9 9.5 14.3

129 13.2 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 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

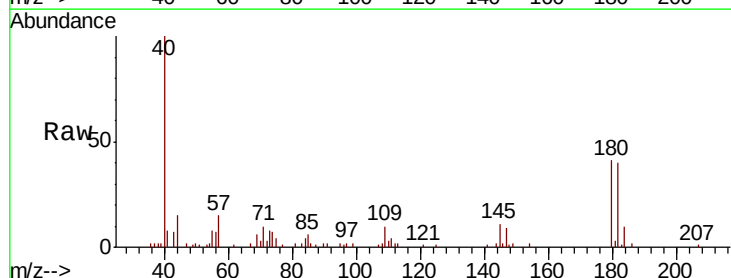
Tgt Ion:180 Resp: 5741

Ion Ratio Lower Upper

180 100

182 99.4 47.9 143.7

145 28.1 16.6 49.7



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

