

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032219\
 Data File : VF062093.D
 Acq On : 22 Mar 2019 22:10
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Quant Time: Mar 23 04:16:12 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	4.90	168	264994	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.62	114	410732	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.80	117	336282	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	173209	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	100816	51.15	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	102.30%	
35) Dibromofluoromethane	4.14	113	141901	51.07	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	102.14%	
50) Toluene-d8	7.58	98	426178	51.39	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	102.78%	
62) 4-Bromofluorobenzene	11.43	95	164474	51.37	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	102.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	160362	47.238	ug/l	95
3) Chloromethane	1.11	50	163835	46.123	ug/l	97
4) Vinyl Chloride	1.15	62	152594	46.442	ug/l	97
5) Bromomethane	1.34	94	119993	50.805	ug/l	95
6) Chloroethane	1.41	64	82865	50.100	ug/l #	88
7) Trichlorofluoromethane	1.51	101	198252	49.960	ug/l	94
8) Diethyl Ether	1.64	74	45995	50.742	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	1.85	101	135071	49.894	ug/l	94
10) Methyl Iodide	1.93	142	211046	41.024	ug/l	99
11) Tert butyl alcohol	2.58	59	24684	227.606	ug/l	100
12) 1,1-Dichloroethene	1.81	96	125001	48.937	ug/l	98
13) Acrolein	2.02	56	27871	213.715	ug/l #	80
14) Allyl chloride	2.11	41	136827	50.172	ug/l	99
15) Acrylonitrile	2.96	53	92914	243.636	ug/l	91
16) Acetone	2.25	43	94398	227.554	ug/l	96
17) Carbon Disulfide	1.85	76	380630	48.867	ug/l	100
18) Methyl Acetate	2.36	43	41559	41.998	ug/l	92
19) Methyl tert-butyl Ether	2.45	73	202454	50.148	ug/l	92
20) Methylene Chloride	2.20	84	44530	15.646	ug/l	97
21) trans-1,2-Dichloroethene	2.32	96	129698	52.772	ug/l	98
22) Diisopropyl ether	2.82	45	371559	51.965	ug/l	97
23) Vinyl Acetate	3.21	43	758459	259.082	ug/l	100
24) 1,1-Dichloroethane	2.89	63	212937	49.661	ug/l	99
25) 2-Butanone	4.37	43	195800	226.090	ug/l	99
26) 2,2-Dichloropropane	3.62	77	84241	48.456	ug/l	96
27) cis-1,2-Dichloroethene	3.50	96	155711	47.812	ug/l	96
28) Bromochloromethane	3.74	49	90807	51.834	ug/l	90
29) Tetrahydrofuran	4.10	42	87880	233.391	ug/l	97
30) Chloroform	3.88	83	239756	52.909	ug/l	98
31) Cyclohexane	3.71	56	125750	28.080	ug/l	98
32) 1,1,1-Trichloroethane	4.12	97	148786	53.976	ug/l	96
36) 1,1-Dichloropropene	4.31	75	196603	50.254	ug/l	98
37) Ethyl Acetate	4.15	43	75742	44.300	ug/l	88
38) Carbon Tetrachloride	4.02	117	128380	48.146	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.48	83	231058	50.888	ug/l	97
40) Benzene	4.66	78	535034	51.015	ug/l	98
41) Methacrylonitrile	4.77	41	43291	47.854	ug/l	97
42) 1,2-Dichloroethane	4.97	62	128846	51.951	ug/l	95
43) Isopropyl Acetate	6.98	43	96614	46.660	ug/l #	96
44) Trichloroethene	5.53	130	158880	49.549	ug/l	93
45) 1,2-Dichloropropane	6.26	63	120098	48.011	ug/l	99
46) Dibromomethane	6.11	93	74619	48.787	ug/l	96
47) Bromodichloromethane	6.41	83	174026	51.369	ug/l	96
48) Methyl methacrylate	6.74	41	58978	50.026	ug/l	98
49) 1,4-Dioxane	6.73	88	9957	962.511	ug/l	91
51) 4-Methyl-2-Pentanone	8.28	43	330359	238.376	ug/l	94
52) Toluene	7.65	92	307145	50.562	ug/l	97
53) t-1,3-Dichloropropene	8.30	75	135310	50.878	ug/l	92
54) cis-1,3-Dichloropropene	7.32	75	194442	51.098	ug/l	96
55) 1,1,2-Trichloroethane	8.52	97	86763	50.283	ug/l	96
56) Ethyl methacrylate	8.64	69	103751	50.418	ug/l	95
57) 1,3-Dichloropropane	8.88	76	144161	50.339	ug/l	100
58) 2-Chloroethyl Vinyl ether	7.32	63	81123	259.793	ug/l	99
59) 2-Hexanone	9.51	43	230942	227.368	ug/l	95
60) Dibromochloromethane	8.74	129	123719	51.577	ug/l	98
61) 1,2-Dibromoethane	9.01	107	90906	49.382	ug/l	92
64) Tetrachloroethene	8.18	164	137353	52.868	ug/l	95
65) Chlorobenzene	9.82	112	327149	51.994	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.96	131	133139	52.678	ug/l	97
67) Ethyl Benzene	9.93	91	579214	52.933	ug/l	98
68) m/p-Xylenes	10.15	106	427128	104.436	ug/l	98
69) o-Xylene	10.74	106	225284	52.593	ug/l	91
70) Styrene	10.80	104	337315	51.974	ug/l	99
71) Bromoform	10.79	173	64511	49.902	ug/l	96
73) Isopropylbenzene	11.14	105	656309	53.848	ug/l	97
74) N-amyl acetate	11.39	43	156312	53.824	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.71	83	103572	49.491	ug/l	96
76) 1,2,3-Trichloropropane	11.81	75	72396	49.156	ug/l	95
77) Bromobenzene	11.51	156	151965	51.034	ug/l	95
78) n-propylbenzene	11.61	91	713839	50.439	ug/l	99
79) 2-Chlorotoluene	11.74	91	412811	52.478	ug/l	97
80) 1,3,5-Trimethylbenzene	11.84	105	516721	51.542	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.89	75	41474	69.110	ug/l	97
82) 4-Chlorotoluene	11.92	91	412062	51.089	ug/l	97
83) tert-Butylbenzene	12.15	119	574599	54.752	ug/l	97
84) 1,2,4-Trimethylbenzene	12.22	105	516938	52.599	ug/l	99
85) sec-Butylbenzene	12.32	105	695035	51.194	ug/l	100
86) p-Isopropyltoluene	12.48	119	627072	53.312	ug/l	99
87) 1,3-Dichlorobenzene	12.49	146	281635	50.908	ug/l	97
88) 1,4-Dichlorobenzene	12.58	146	273316	50.629	ug/l	97
89) n-Butylbenzene	12.86	91	578355	51.538	ug/l	97
90) Hexachloroethane	12.93	117	147949	52.825	ug/l	88
91) 1,2-Dichlorobenzene	12.96	146	257869	49.640	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.65	75	16373	51.636	ug/l	76

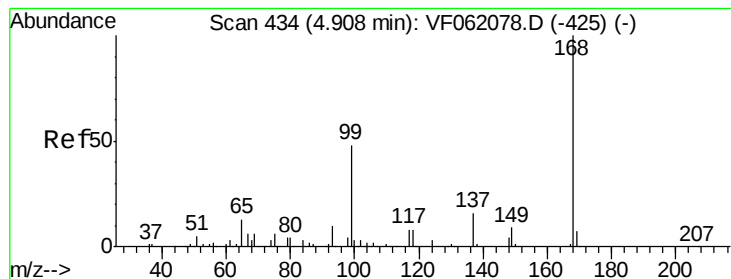
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF032219\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.22	180	182373	50.373	ug/l	97
94) Hexachlorobutadiene	14.21	225	127456	52.946	ug/l	92
95) Naphthalene	14.47	128	339320	53.482	ug/l	99
96) 1,2,3-Trichlorobenzene	14.62	180	175255	51.713	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.90 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

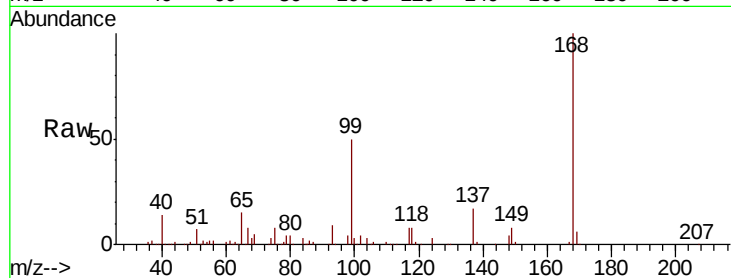
VSTDCCC050

Tot Ion:168 Resp: 264994

Ion Ratio Lower Upper

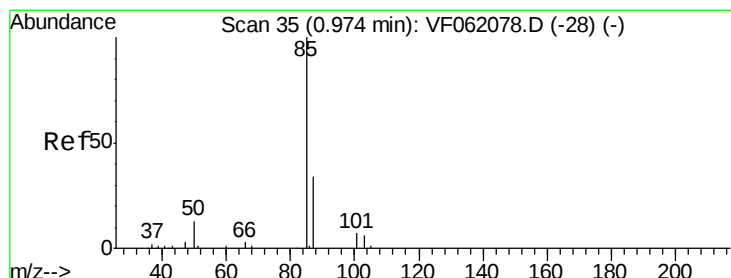
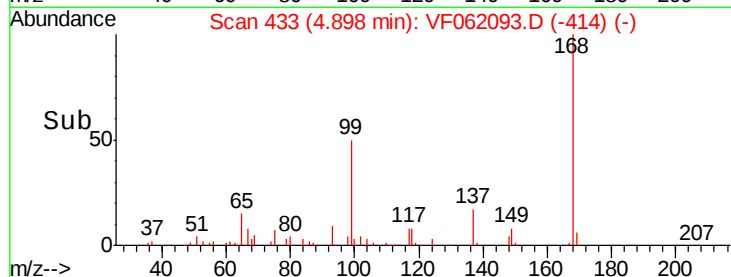
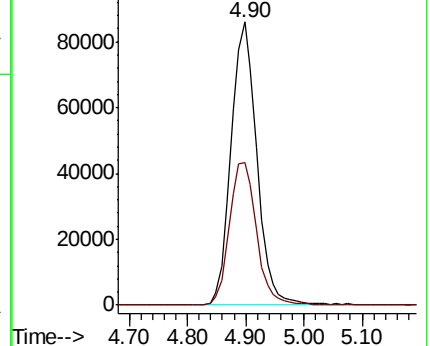
168 100

99 50.3 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: 47.238 ug/l

RT: 0.97 min Scan# 35

Delta R.T. -0.00 min

Lab File: VF062093.D

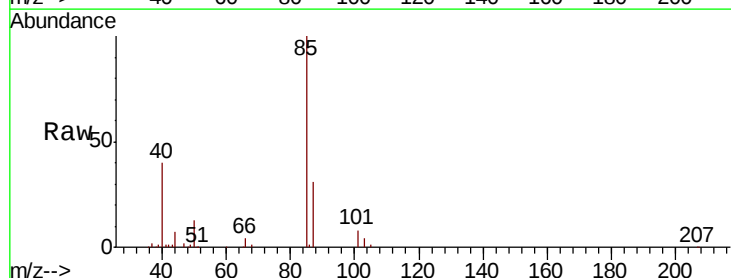
Acq: 22 Mar 2019 22:10

Tgt Ion: 85 Resp: 160362

Ion Ratio Lower Upper

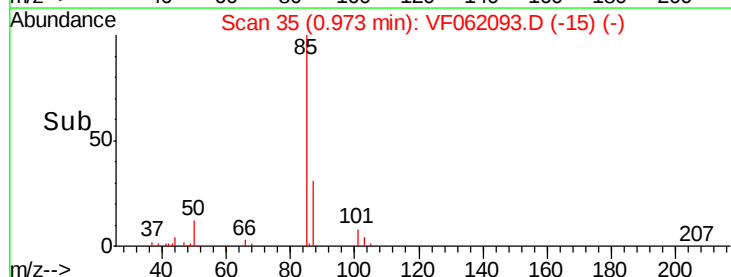
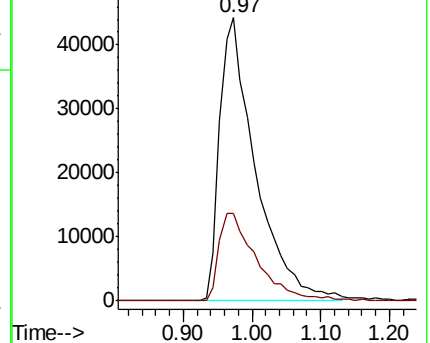
85 100

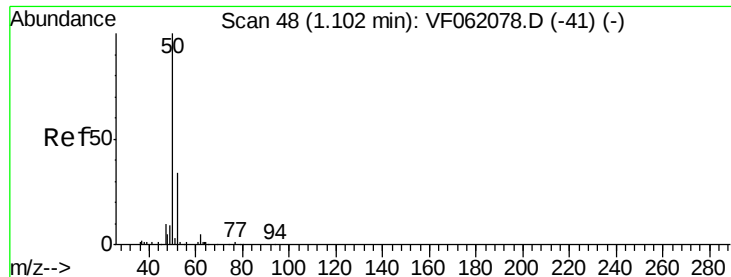
87 30.9 17.0 51.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#3

Chloromethane

Concen: 46.123 ug/l

RT: 1.11 min Scan# 49

Delta R.T. 0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

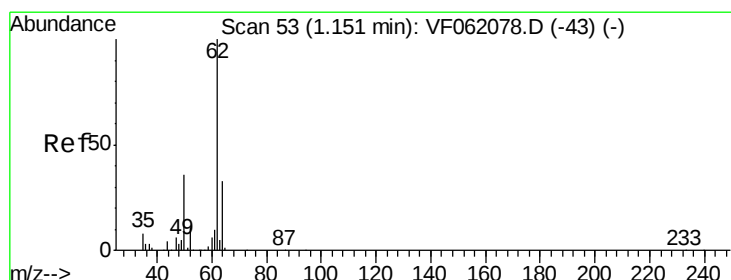
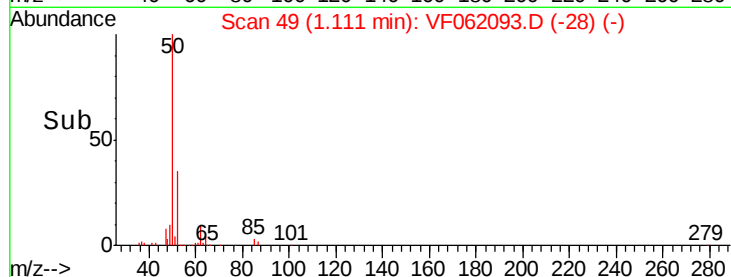
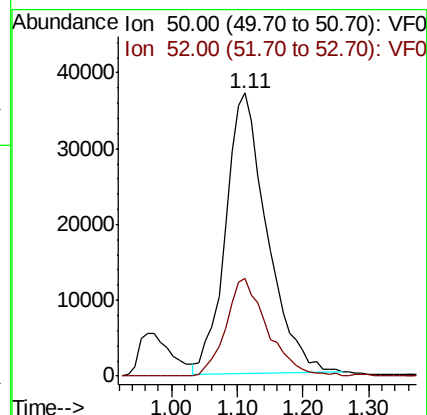
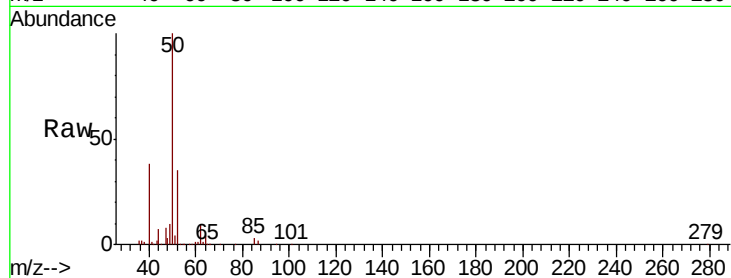
VSTDCCC050

Tot Ion: 50 Resp: 163835

Ion Ratio Lower Upper

50 100

52 34.5 26.1 39.1



#4

Vinyl Chloride

Concen: 46.442 ug/l

RT: 1.15 min Scan# 53

Delta R.T. -0.00 min

Lab File: VF062093.D

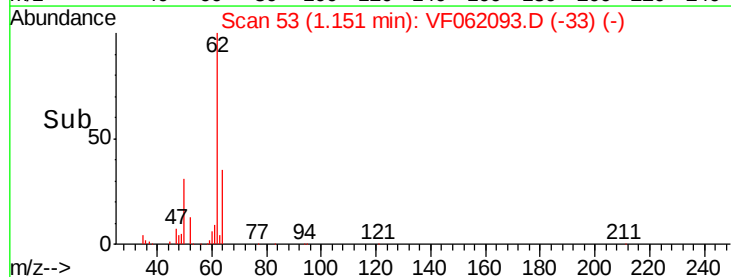
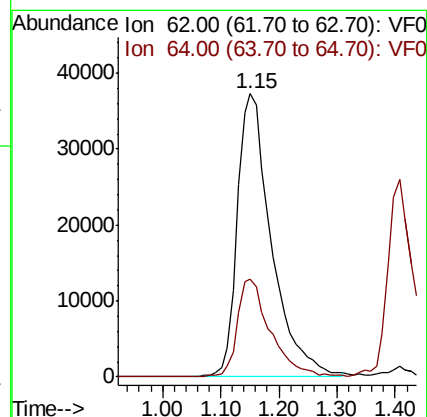
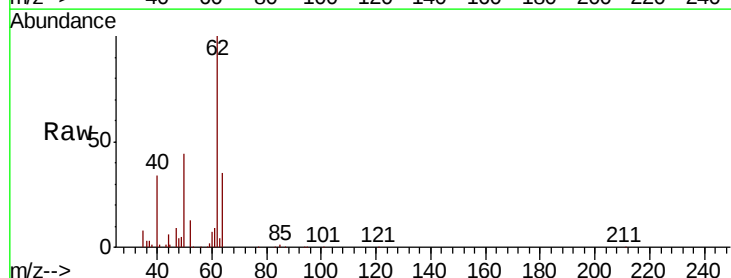
Acq: 22 Mar 2019 22:10

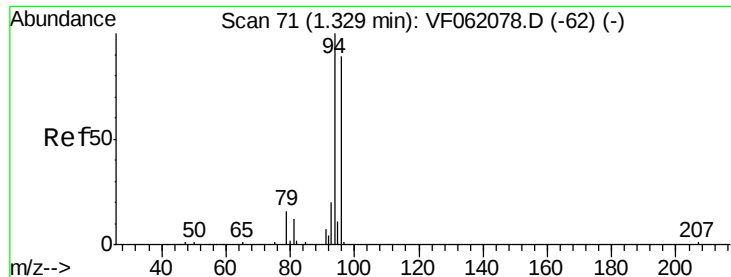
Tgt Ion: 62 Resp: 152594

Ion Ratio Lower Upper

62 100

64 34.6 26.2 39.2





#5

Bromomethane

Concen: 50.805 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

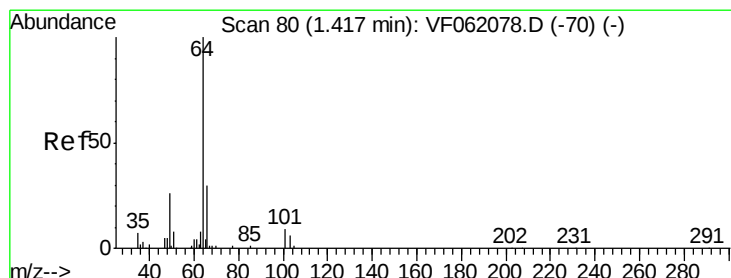
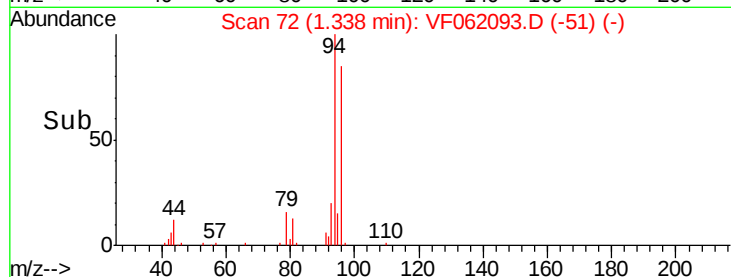
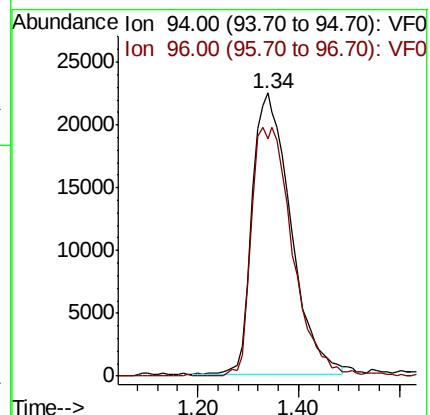
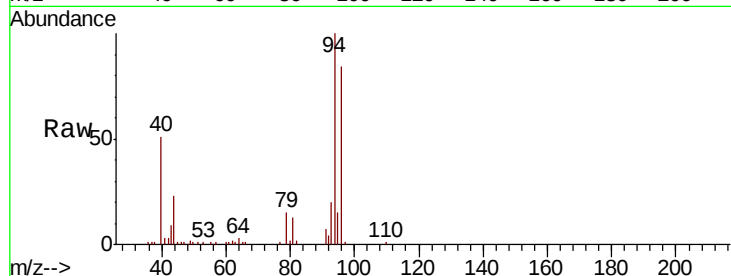
VSTDCCC050

Tot Ion: 94 Resp: 119993

Ion Ratio Lower Upper

94 100

96 83.7 70.9 106.3



#6

Chloroethane

Concen: 50.100 ug/l

RT: 1.41 min Scan# 79

Delta R.T. -0.01 min

Lab File: VF062093.D

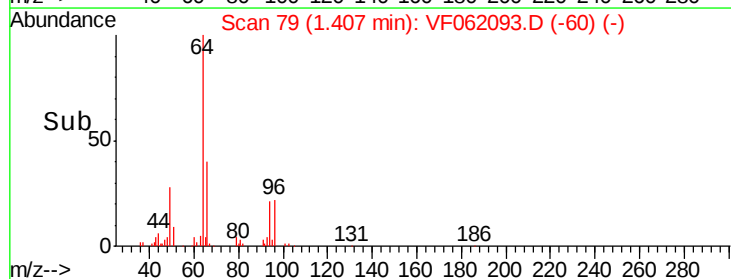
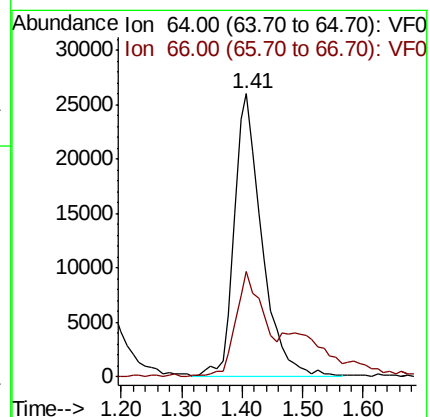
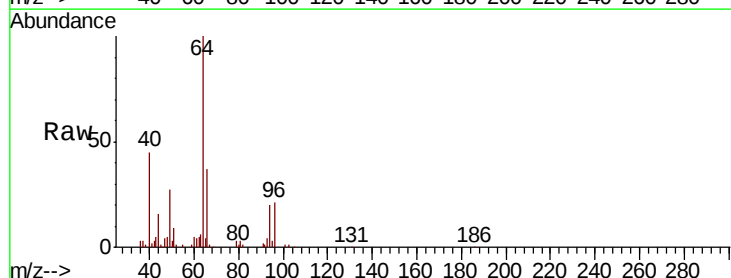
Acq: 22 Mar 2019 22:10

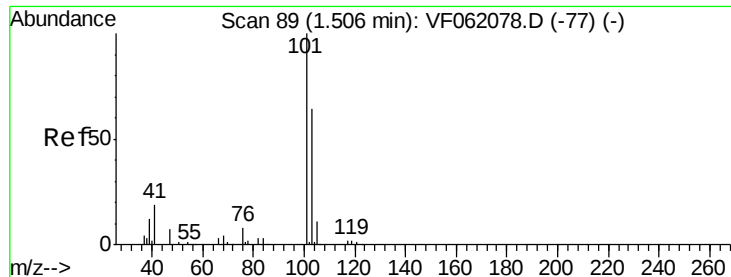
Tgt Ion: 64 Resp: 82865

Ion Ratio Lower Upper

64 100

66 37.4 24.5 36.7#



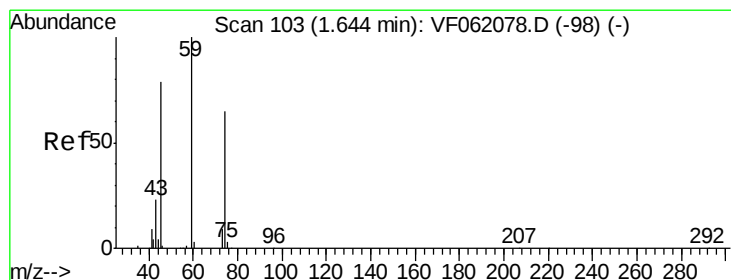
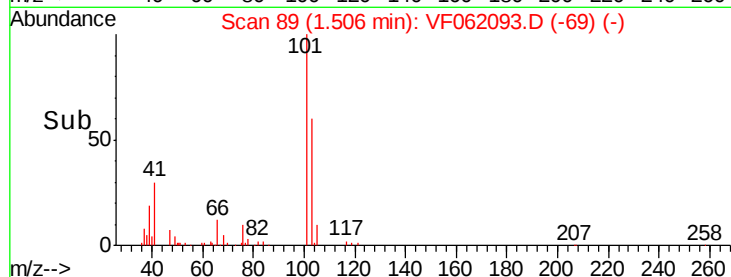
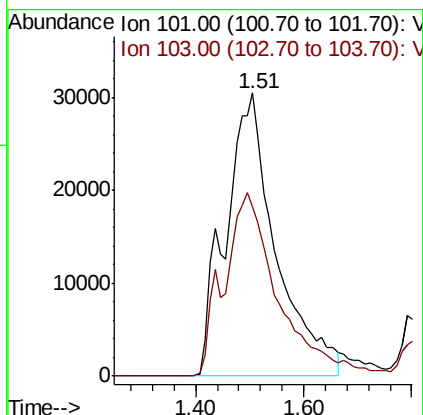
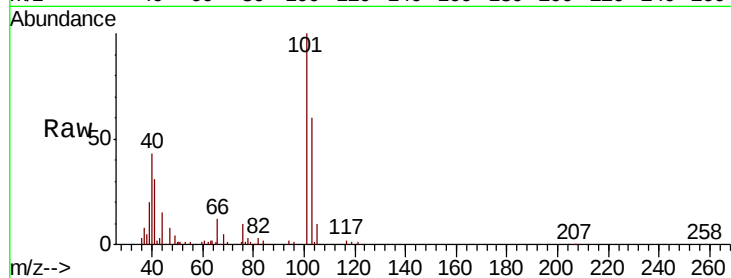


#7

Trichlorofluoromethane
Concen: 49.960 ug/l
RT: 1.51 min Scan# 89
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

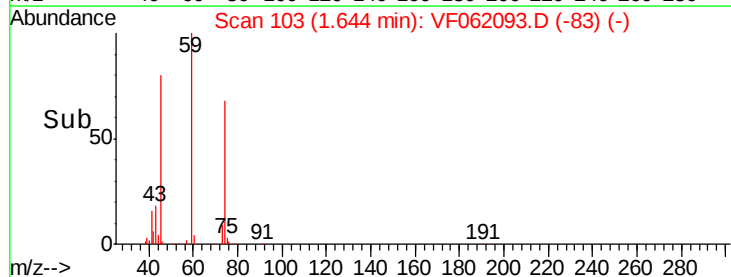
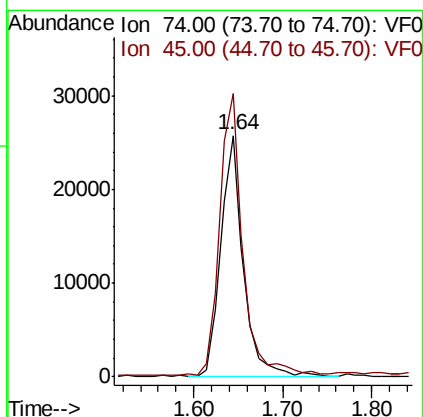
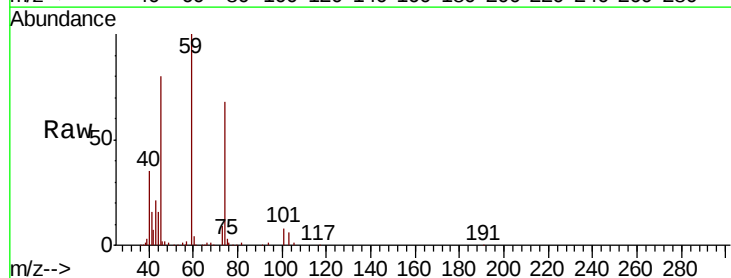
Tot Ion:101 Resp: 198252
Ion Ratio Lower Upper
101 100
103 59.7 51.5 77.3

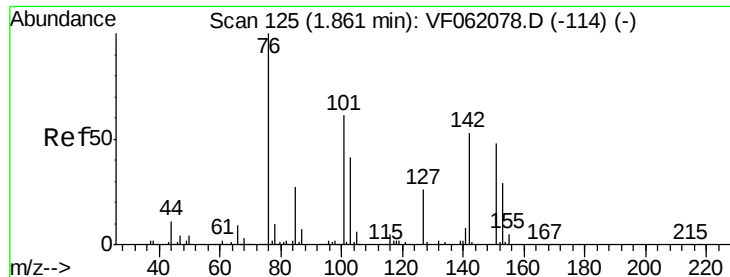


#8

Diethyl Ether
Concen: 50.742 ug/l
RT: 1.64 min Scan# 103
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 74 Resp: 45995
Ion Ratio Lower Upper
74 100
45 117.4 61.4 184.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.894 ug/l

RT: 1.85 min Scan# 124

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

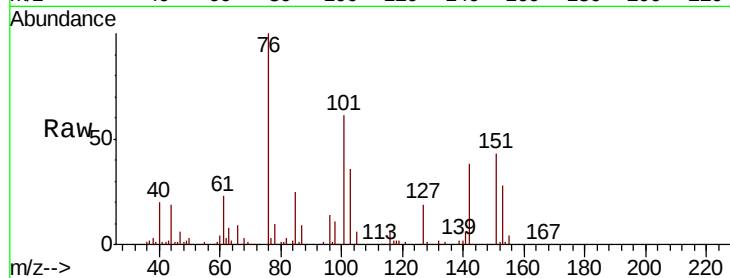
Tot Ion:101 Resp: 135071

Ion Ratio Lower Upper

101 100

85 41.3 34.6 52.0

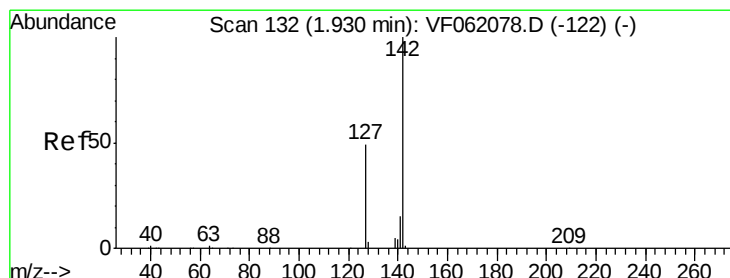
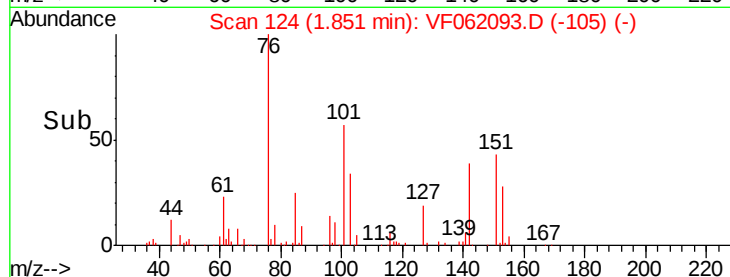
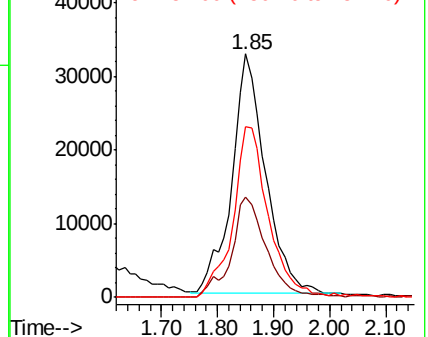
151 69.9 61.7 92.5



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: 41.024 ug/l

RT: 1.93 min Scan# 132

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

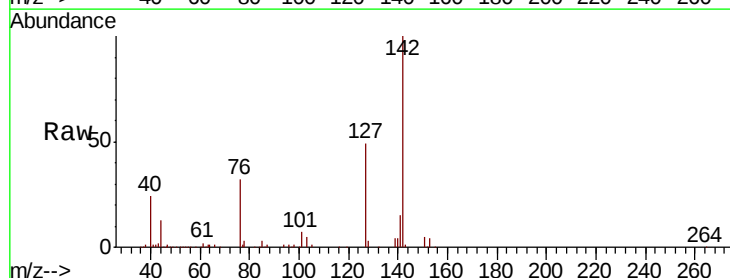
Tgt Ion:142 Resp: 211046

Ion Ratio Lower Upper

142 100

127 48.8 39.1 58.7

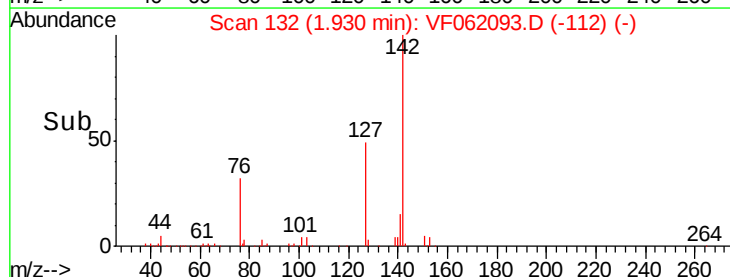
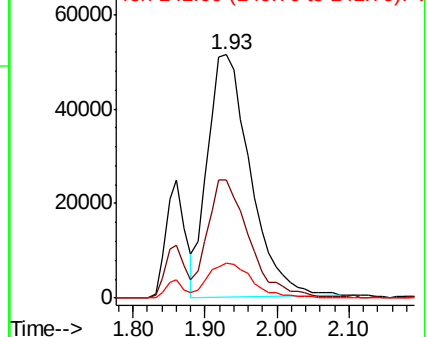
141 14.6 12.2 18.4

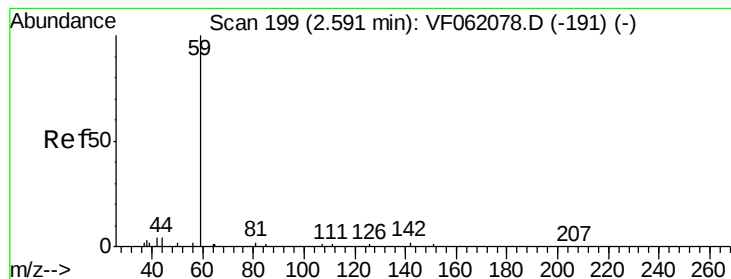


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



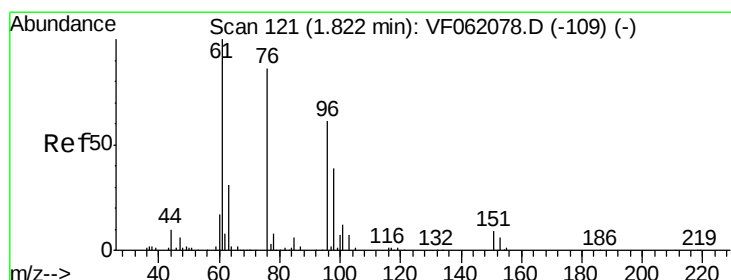
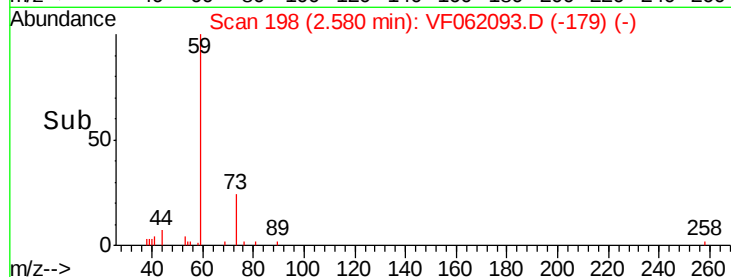
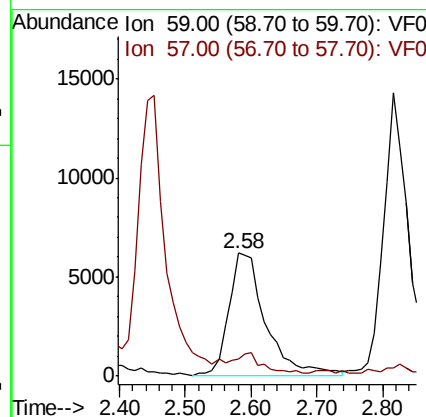
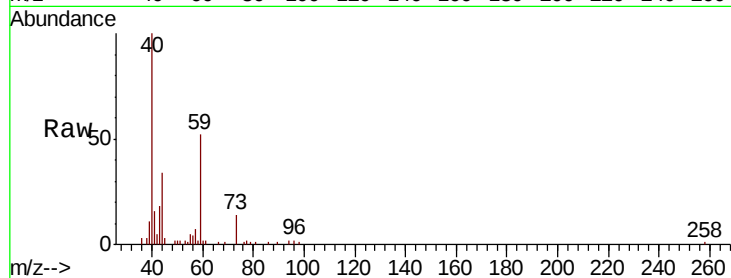


#11

Tert butyl alcohol
 Concen: 227.606 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

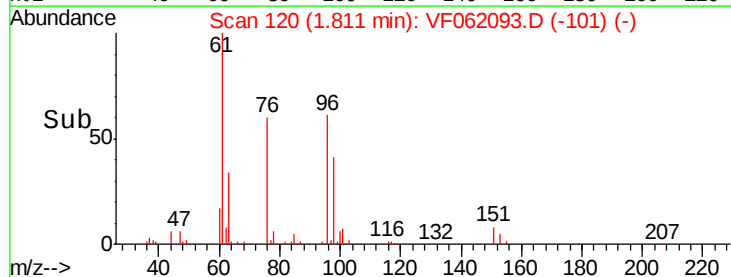
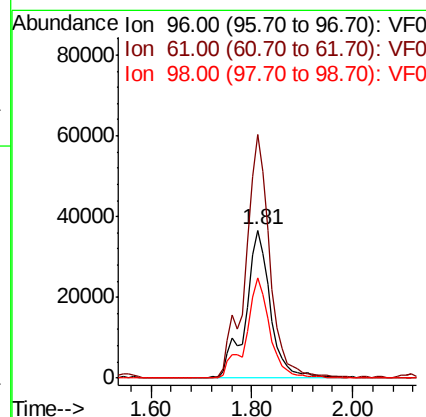
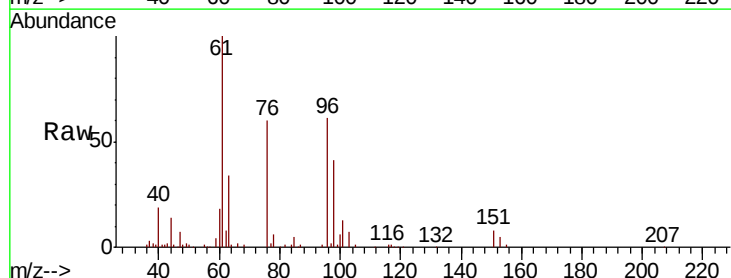
Tot Ion: 59 Resp: 24684
 Ion Ratio Lower Upper
 59 100
 57 13.5 11.0 16.4

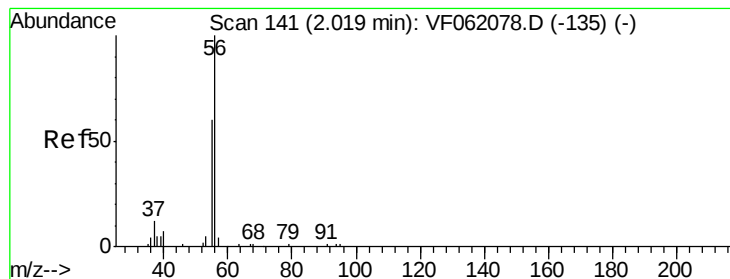


#12

1,1-Dichloroethene
 Concen: 48.937 ug/l
 RT: 1.81 min Scan# 120
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion: 96 Resp: 125001
 Ion Ratio Lower Upper
 96 100
 61 164.9 131.0 196.6
 98 67.8 51.5 77.3





#13

Acrolein

Concen: 213.715 ug/l

RT: 2.02 min Scan# 141

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

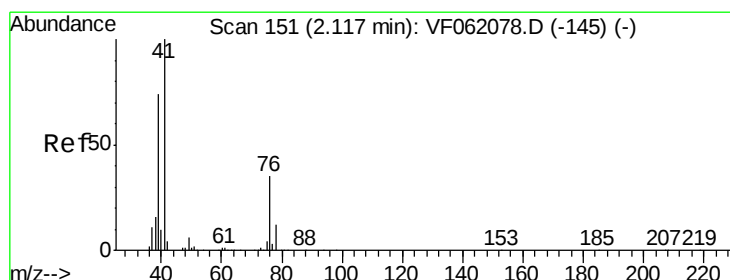
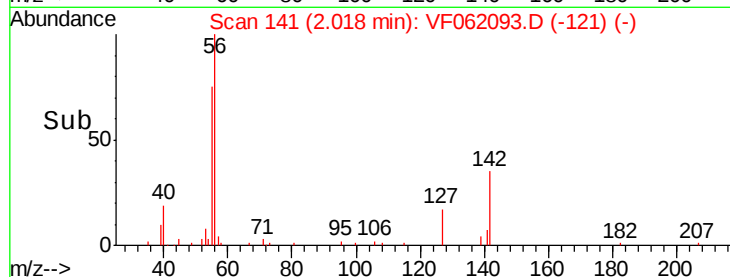
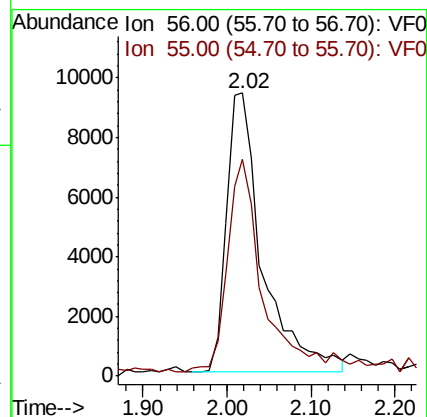
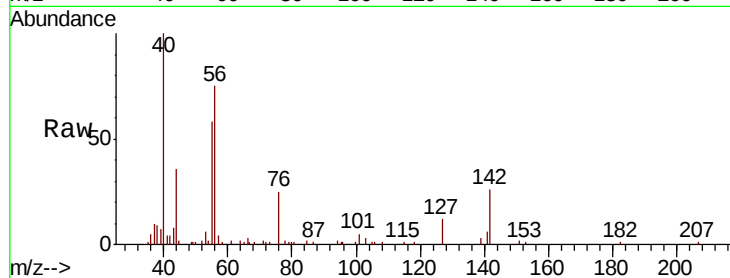
VSTDCCC050

Tot Ion: 56 Resp: 27871

Ion Ratio Lower Upper

56 100

55 76.7 49.0 73.4#



#14

Allyl chloride

Concen: 50.172 ug/l

RT: 2.11 min Scan# 150

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

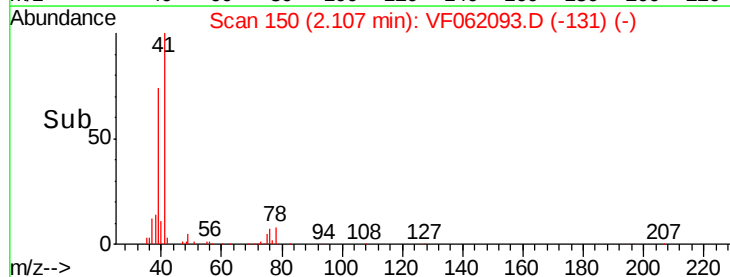
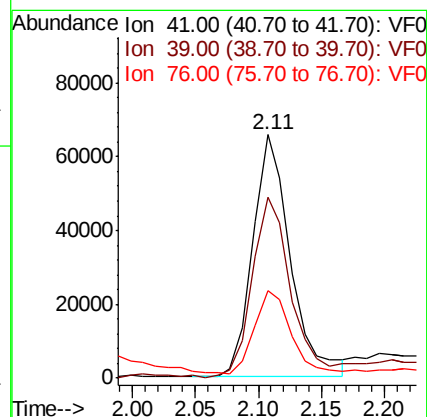
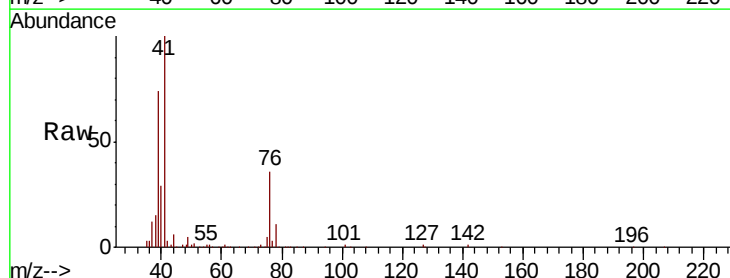
Tgt Ion: 41 Resp: 136827

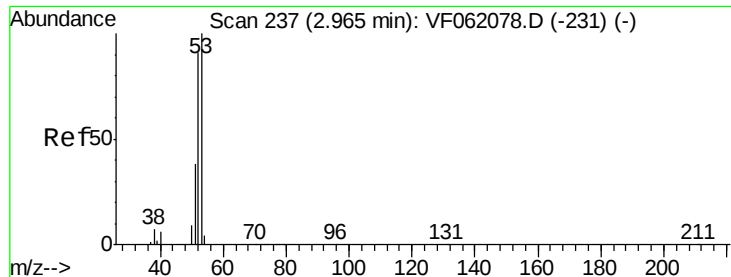
Ion Ratio Lower Upper

41 100

39 74.1 59.8 89.8

76 36.0 30.0 45.0





#15

Acrylonitrile

Concen: 243.636 ug/l

RT: 2.96 min Scan# 236

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

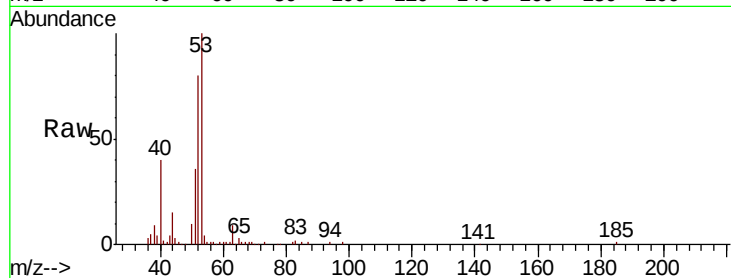
MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 53 Resp: 92914

Ion	Ratio	Lower	Upper
53	100		
52	80.2	72.3	108.5
51	35.5	30.4	45.6

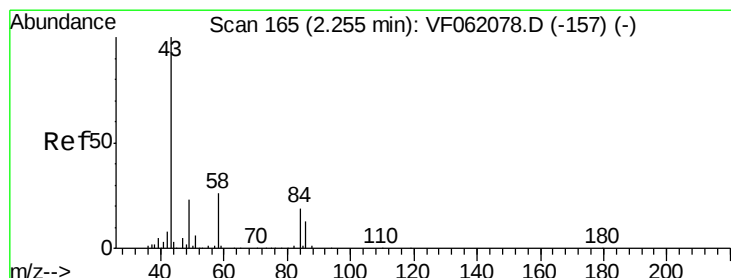
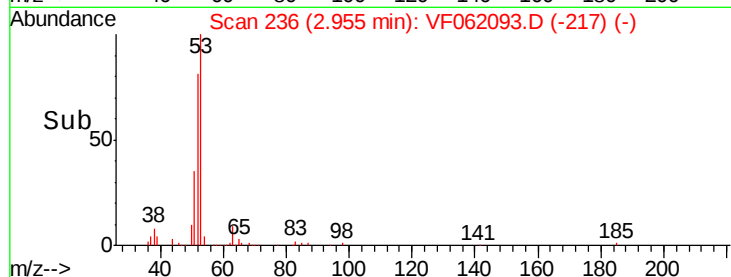
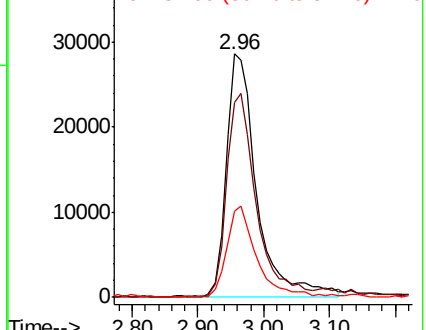


Abundance

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: 227.554 ug/l

RT: 2.25 min Scan# 165

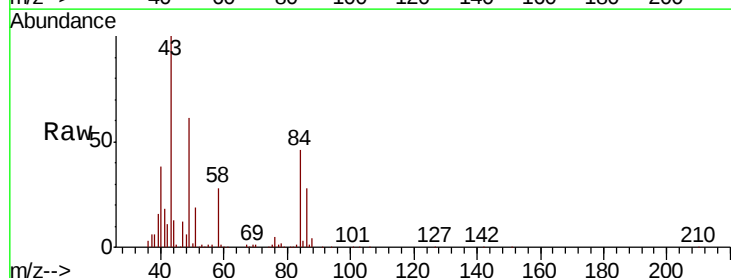
Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion: 43 Resp: 94398

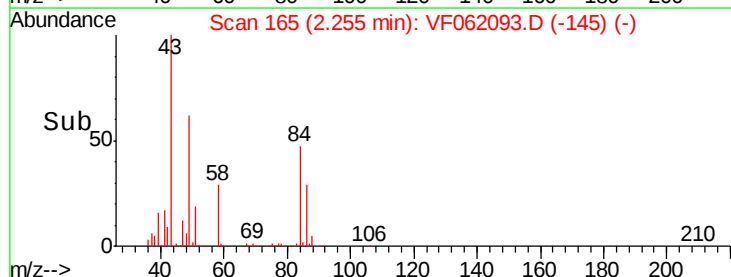
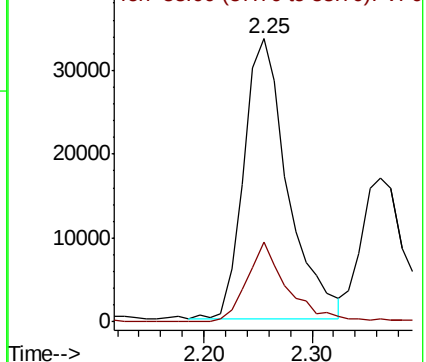
Ion	Ratio	Lower	Upper
43	100		
58	28.3	20.8	31.2

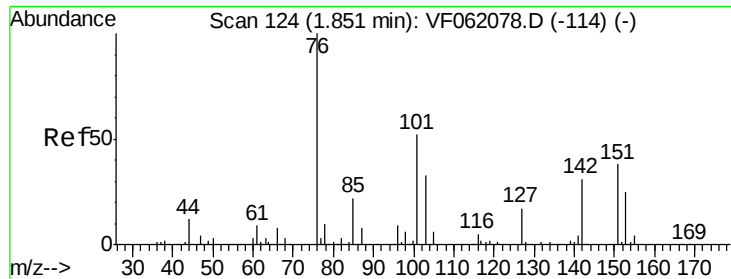


Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

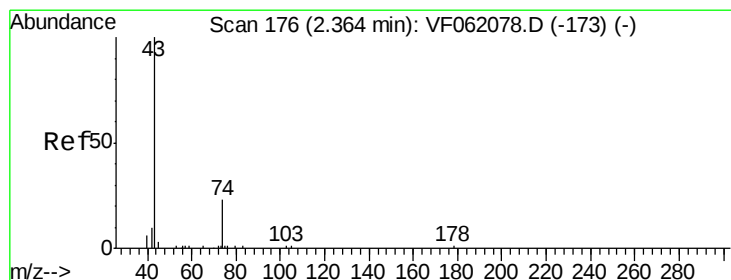
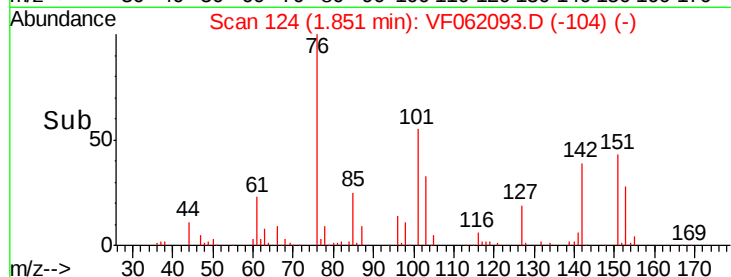
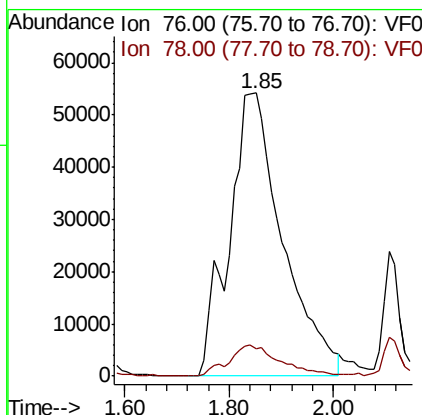
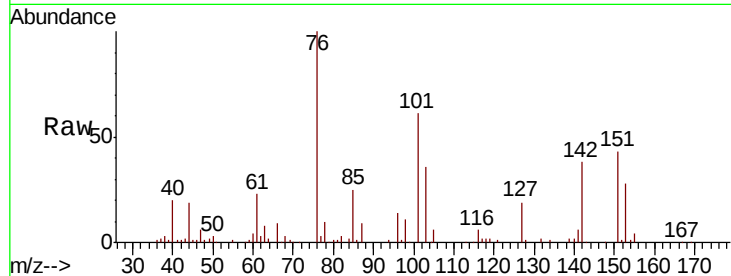




#17
Carbon Disulfide
Concen: 48.867 ug/l
RT: 1.85 min Scan# 124
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

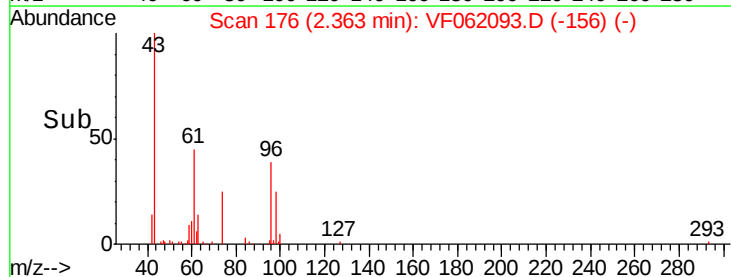
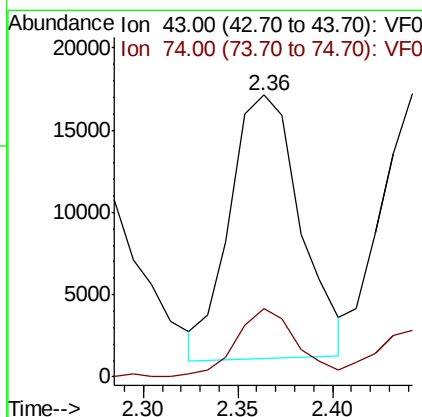
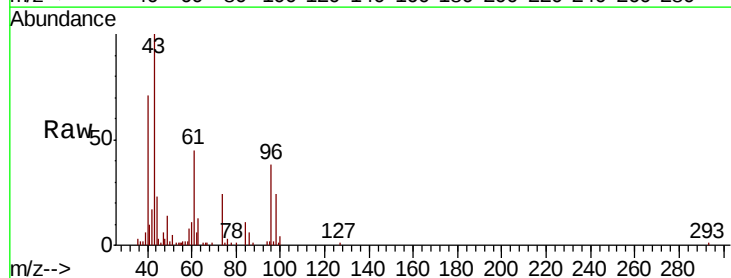
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

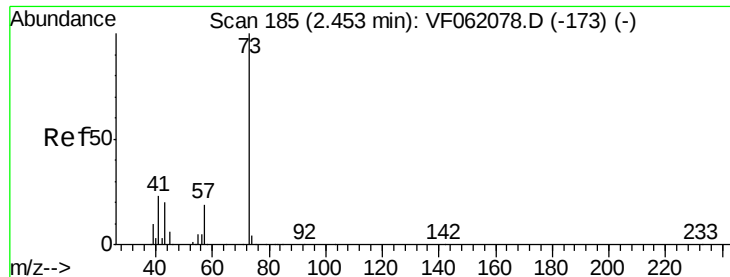
Tot Ion: 76 Resp: 380630
Ion Ratio Lower Upper
76 100
78 9.8 7.9 11.9



#18
Methyl Acetate
Concen: 41.998 ug/l
RT: 2.36 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 43 Resp: 41559
Ion Ratio Lower Upper
43 100
74 24.2 16.3 24.5

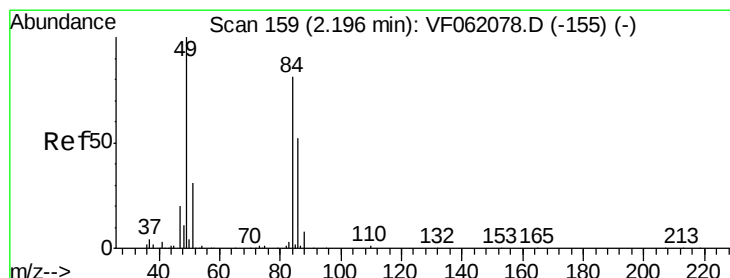
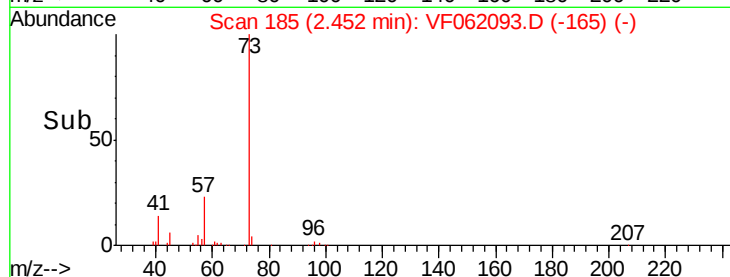
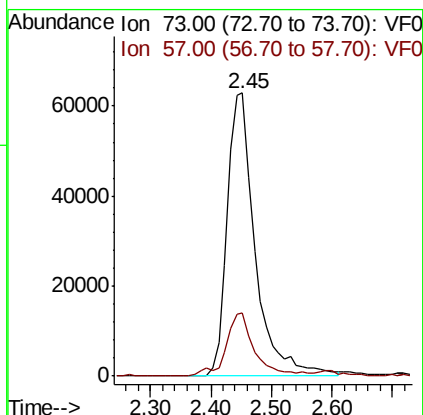
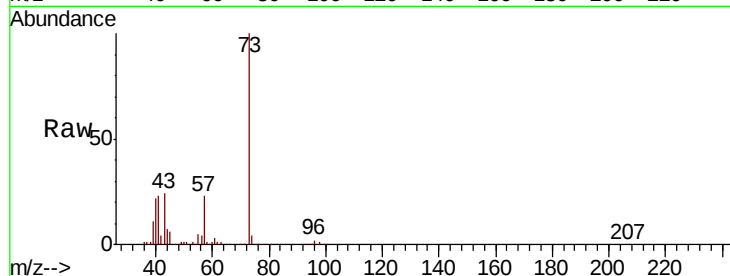




#19
Methyl tert-butyl Ether
Concen: 50.148 ug/l
RT: 2.45 min Scan# 185
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

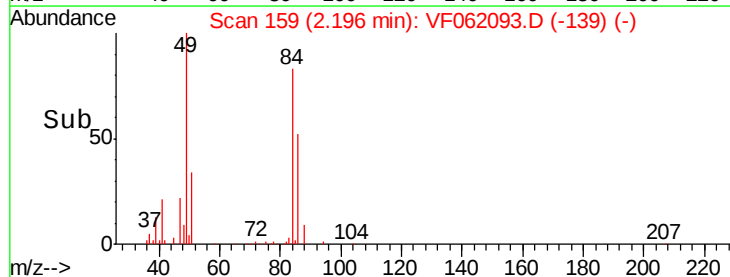
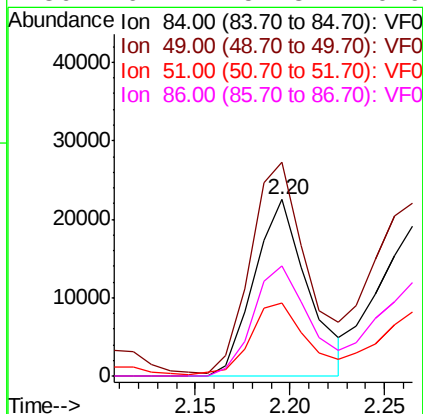
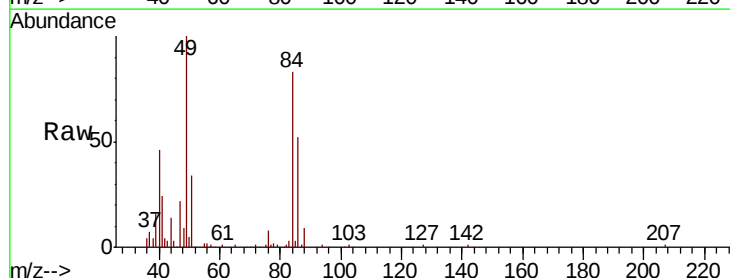
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

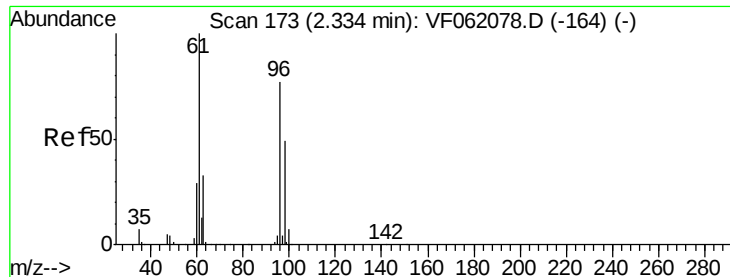
Tot Ion: 73 Resp: 202454
Ion Ratio Lower Upper
73 100
57 22.5 15.1 22.7



#20
Methylene Chloride
Concen: 15.646 ug/l
RT: 2.20 min Scan# 159
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 84 Resp: 44530
Ion Ratio Lower Upper
84 100
49 121.0 100.4 150.6
51 41.4 31.0 46.6
86 62.4 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 52.772 ug/l

RT: 2.32 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

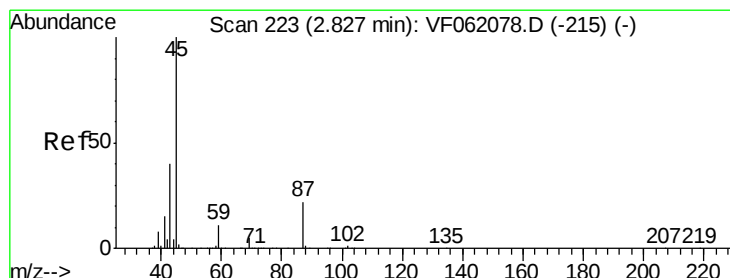
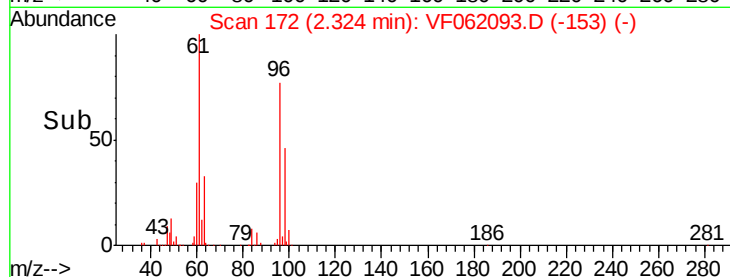
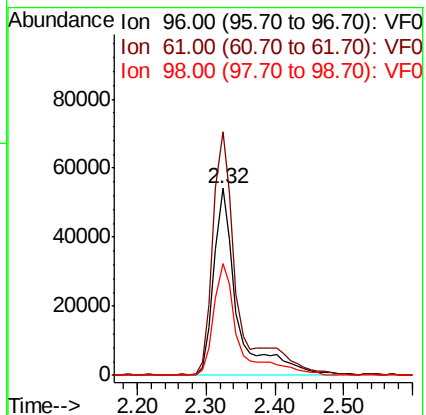
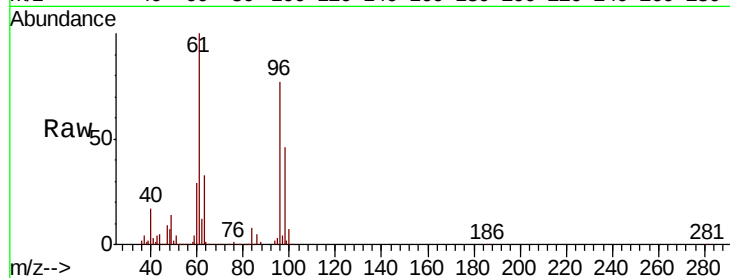
Tot Ion: 96 Resp: 129698

Ion Ratio Lower Upper

96 100

61 130.1 104.5 156.7

98 59.4 51.2 76.8



#22

Diisopropyl ether

Concen: 51.965 ug/l

RT: 2.82 min Scan# 222

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion: 45 Resp: 371559

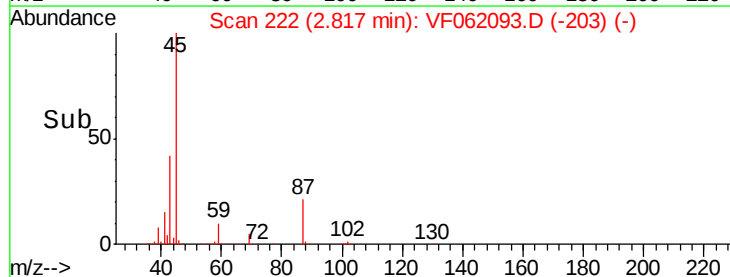
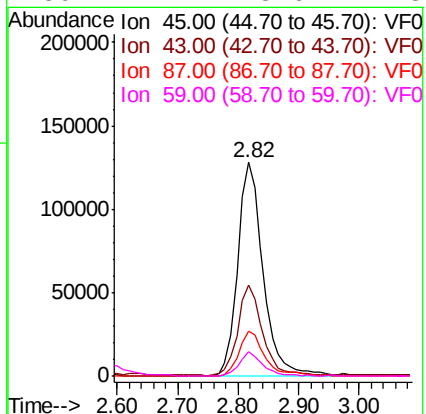
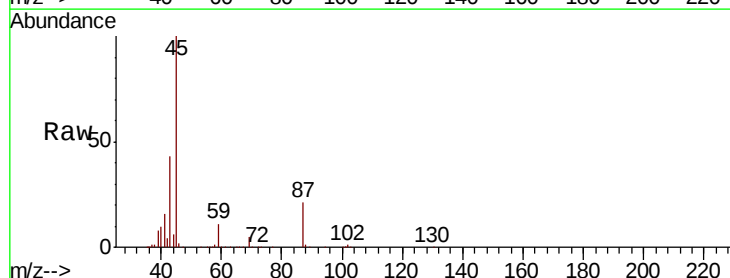
Ion Ratio Lower Upper

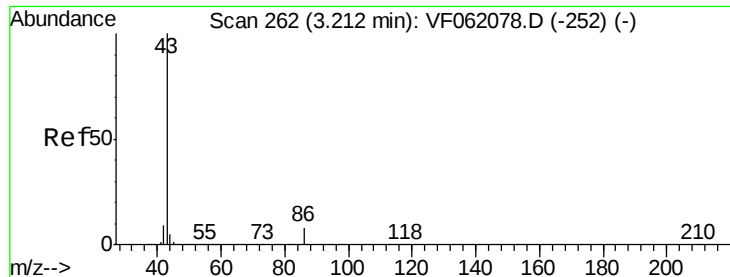
45 100

43 42.6 32.5 48.7

87 20.8 17.4 26.2

59 11.1 8.6 12.8





#23

Vinyl Acetate

Concen: 259.082 ug/l

RT: 3.21 min Scan# 262

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

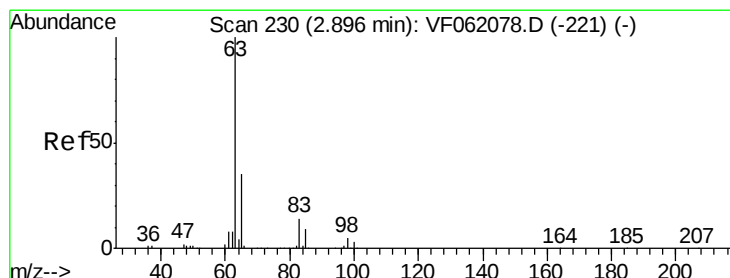
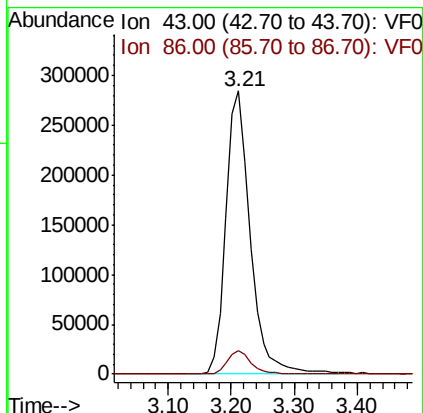
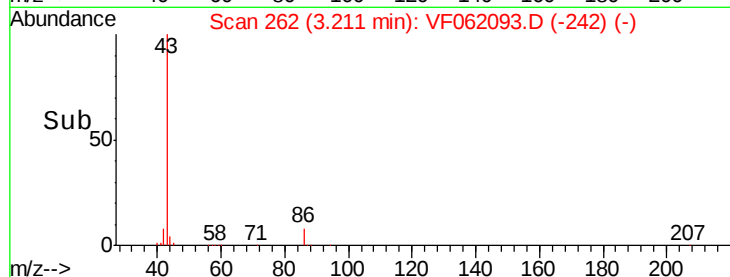
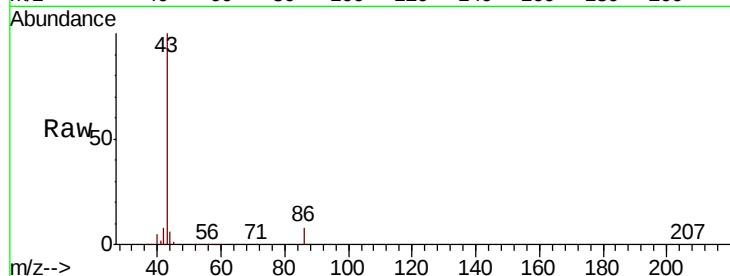
VSTDCCC050

Tot Ion: 43 Resp: 758459

Ion Ratio Lower Upper

43 100

86 8.4 6.8 10.2



#24

1,1-Dichloroethane

Concen: 49.661 ug/l

RT: 2.89 min Scan# 229

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

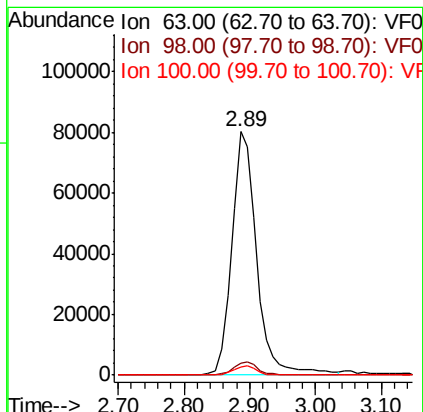
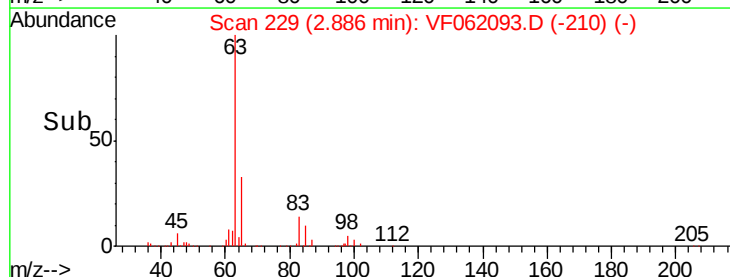
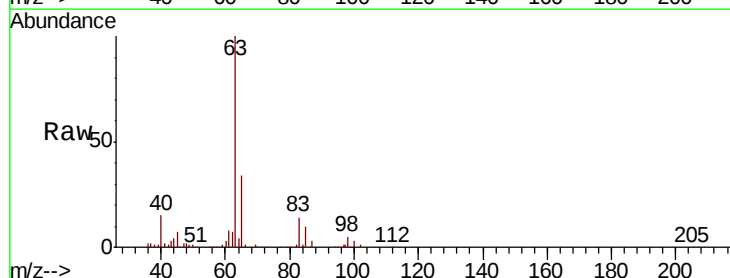
Tgt Ion: 63 Resp: 212937

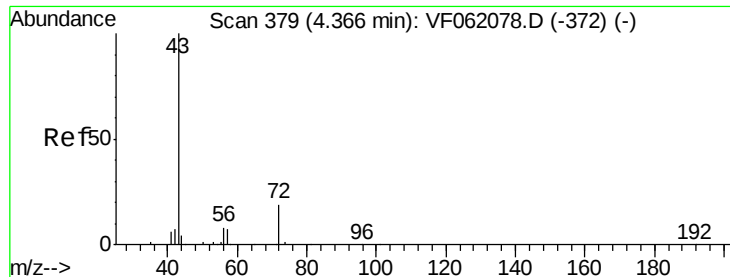
Ion Ratio Lower Upper

63 100

98 4.8 2.7 8.1

100 3.3 1.7 5.1





#25

2-Butanone

Concen: 226.090 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

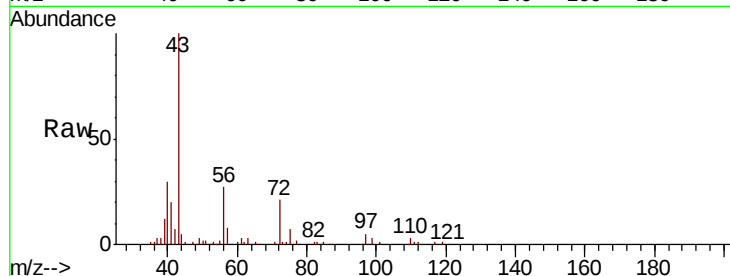
VSTDCCC050

Tot Ion: 43 Resp: 195800

Ion Ratio Lower Upper

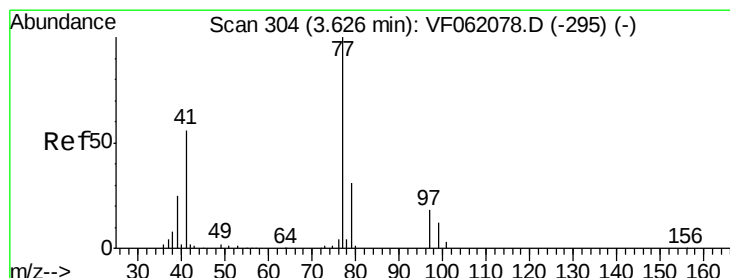
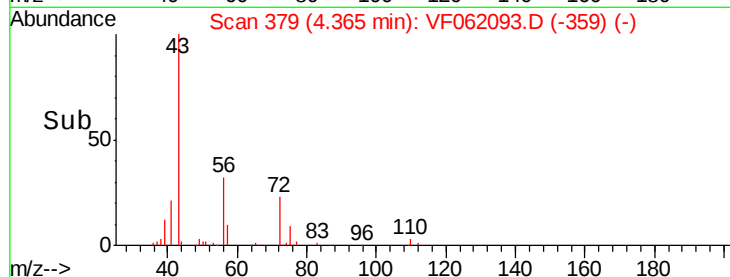
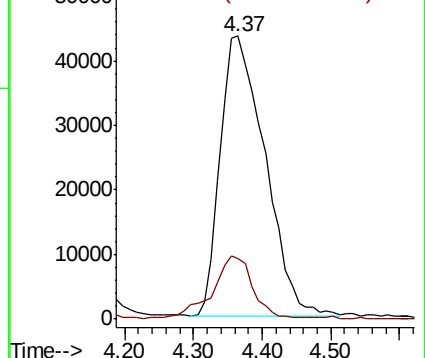
43 100

72 21.2 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 48.456 ug/l

RT: 3.62 min Scan# 303

Delta R.T. -0.01 min

Lab File: VF062093.D

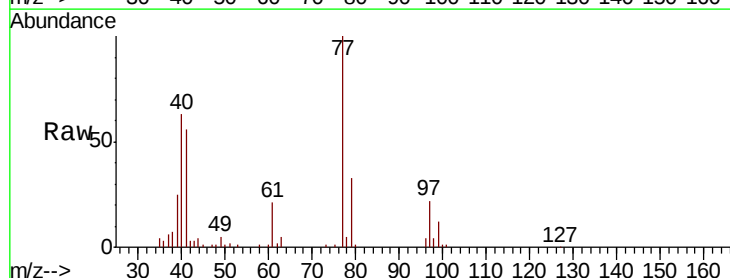
Acq: 22 Mar 2019 22:10

Tgt Ion: 77 Resp: 84241

Ion Ratio Lower Upper

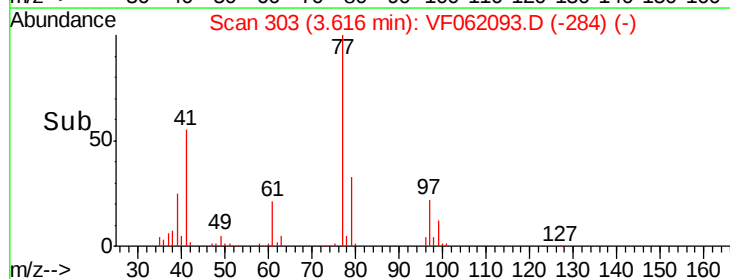
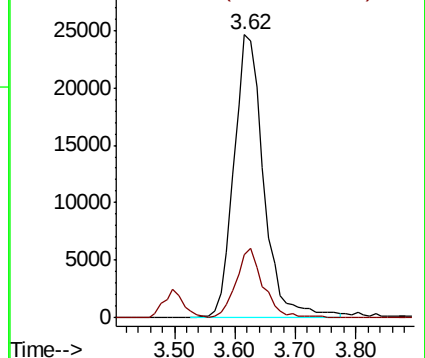
77 100

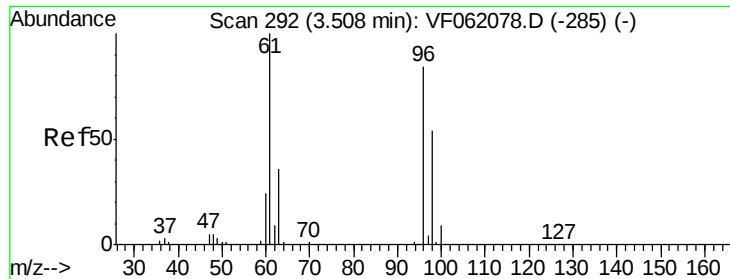
97 22.4 10.3 30.9



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



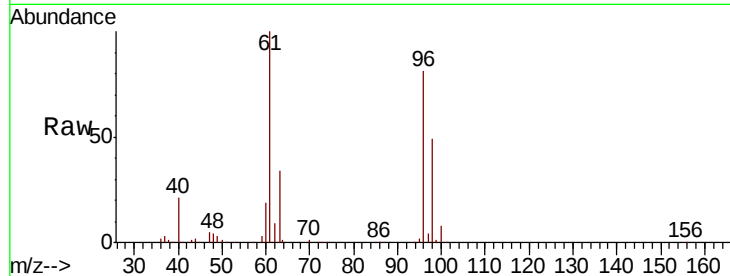


#27

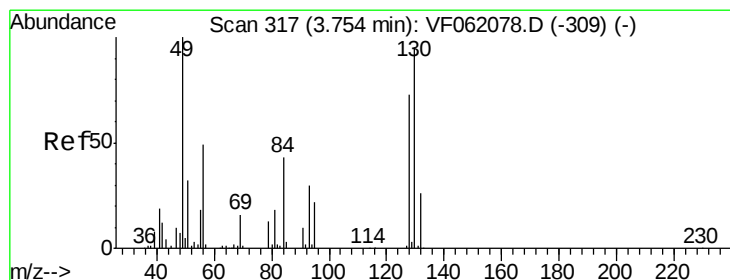
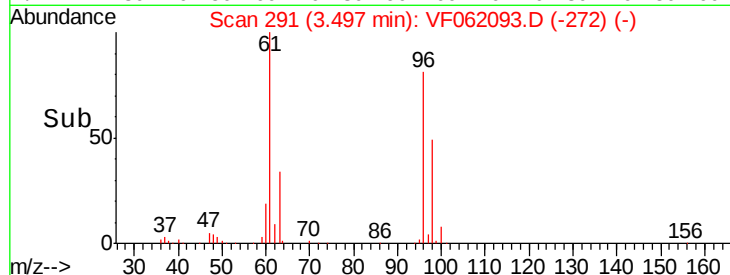
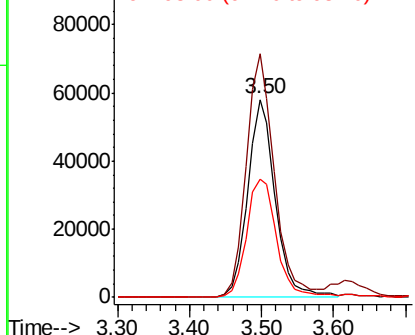
cis-1,2-Dichloroethene
 Concen: 47.812 ug/l
 RT: 3.50 min Scan# 291
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	123.2	0.0	239.0
98	59.9	0.0	128.2



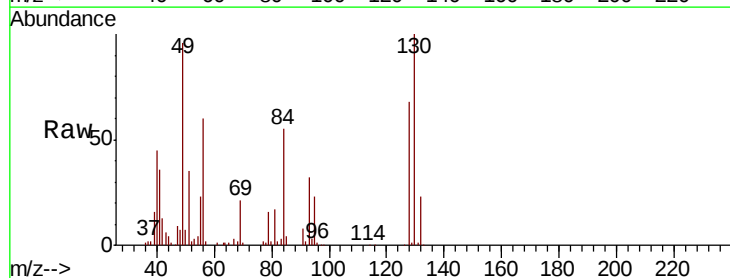
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



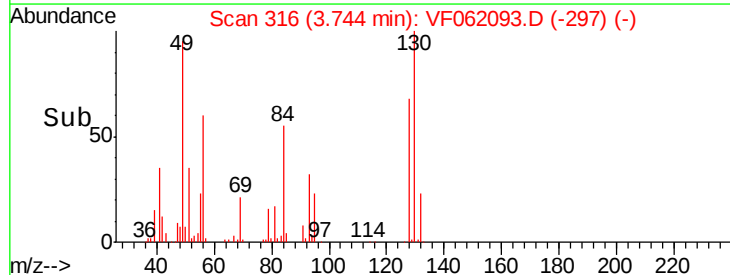
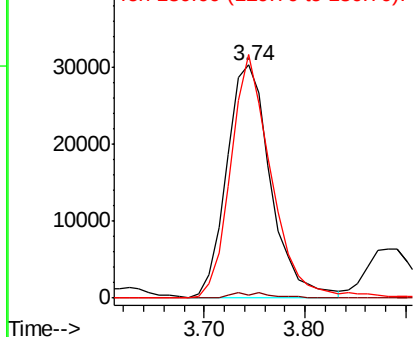
#28

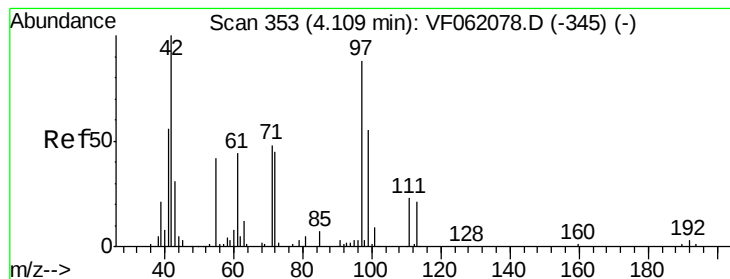
Bromochloromethane
 Concen: 51.834 ug/l
 RT: 3.74 min Scan# 316
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	5.6
130	104.4	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: 233.391 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

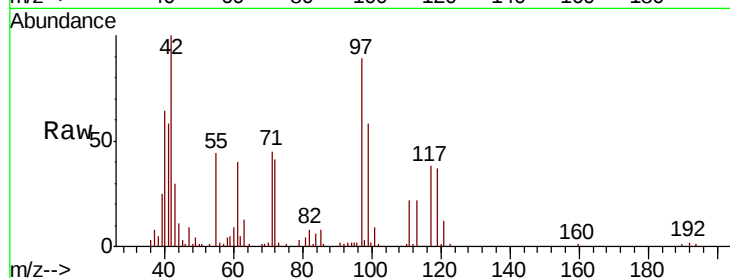
Tot Ion: 42 Resp: 87880

Ion Ratio Lower Upper

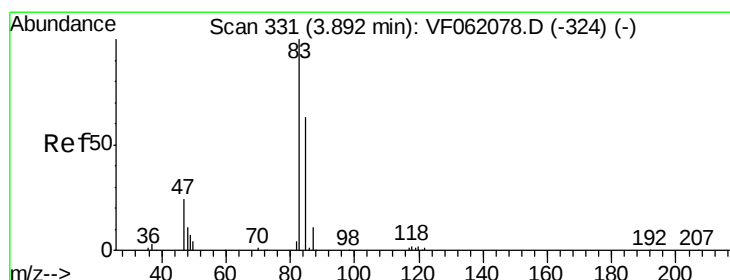
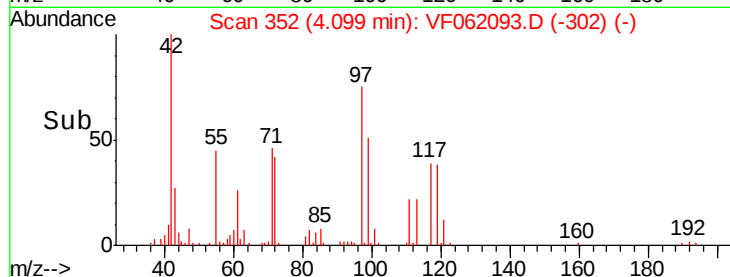
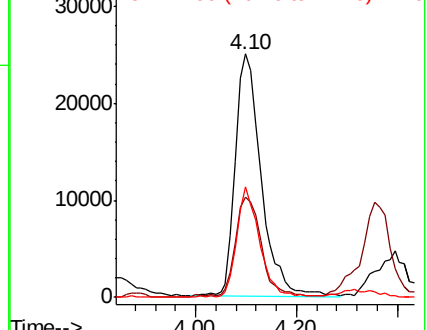
42 100

72 41.0 33.3 49.9

71 40.5 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: 52.909 ug/l

RT: 3.88 min Scan# 330

Delta R.T. -0.01 min

Lab File: VF062093.D

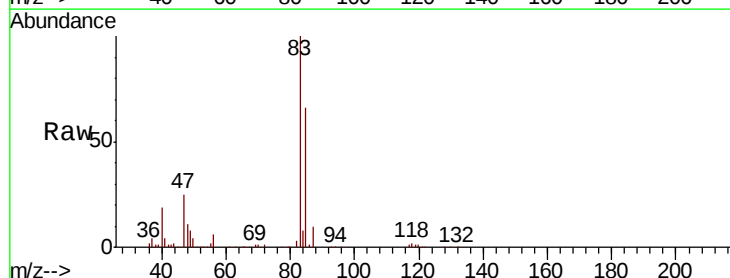
Acq: 22 Mar 2019 22:10

Tgt Ion: 83 Resp: 239756

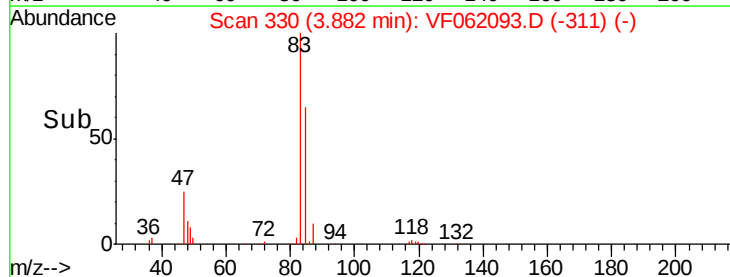
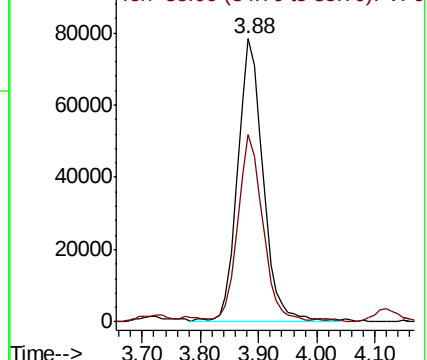
Ion Ratio Lower Upper

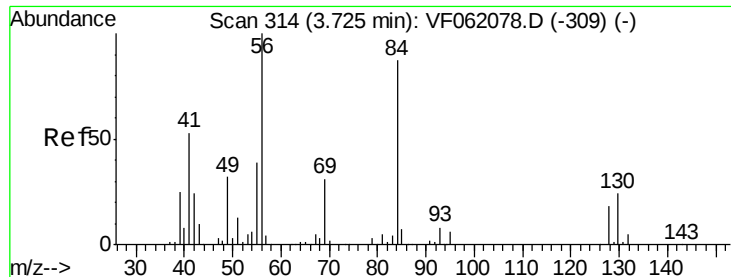
83 100

85 66.0 51.5 77.3



Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 85.00 (84.70 to 85.70): VF0

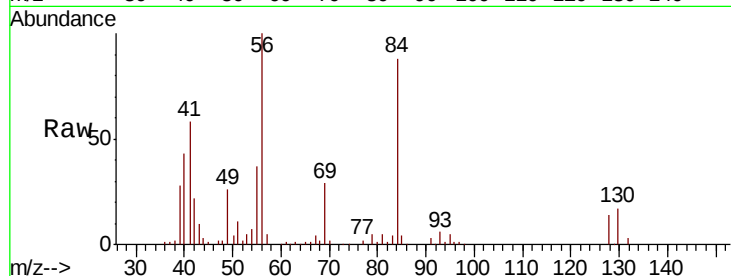




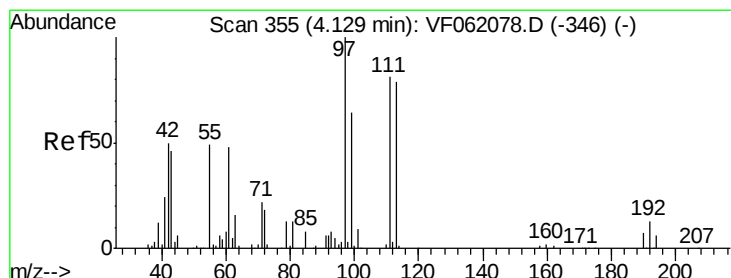
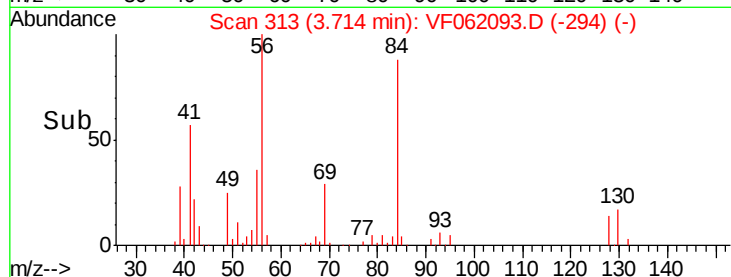
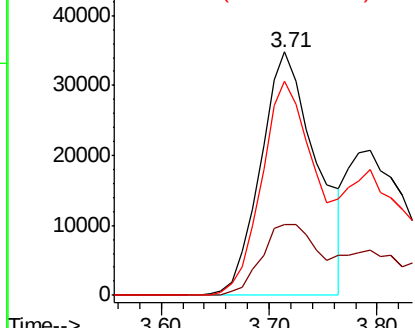
#31
Cyclohexane
Concen: 28.080 ug/l
RT: 3.71 min Scan# 313
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 56 Resp: 125750
Ion Ratio Lower Upper
56 100
69 29.0 25.9 38.9
84 88.0 71.1 106.7

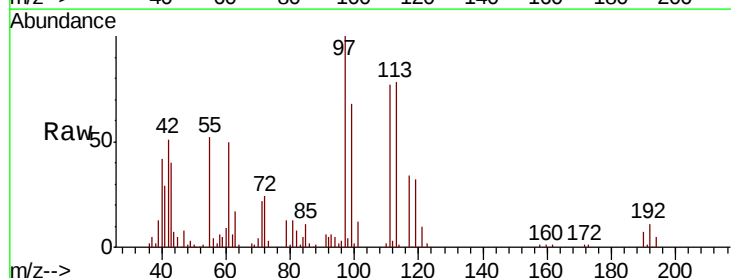


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

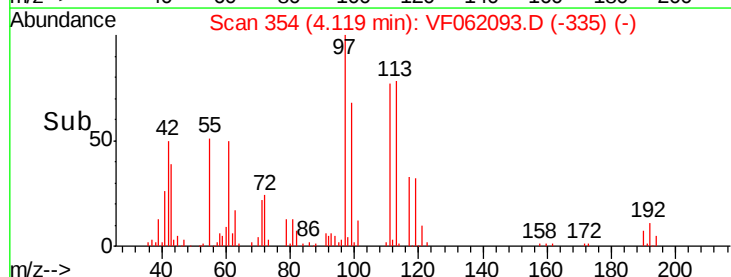
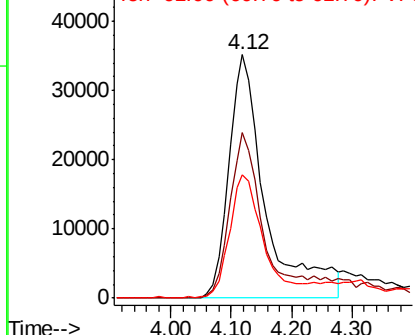


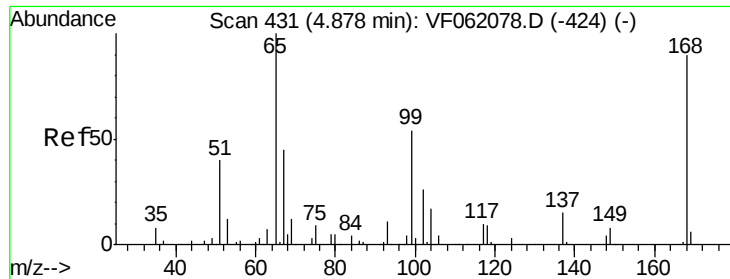
#32
1,1,1-Trichloroethane
Concen: 53.976 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 97 Resp: 148786
Ion Ratio Lower Upper
97 100
99 68.1 51.3 76.9
61 50.4 39.0 58.6



Abundance Ion 97.00 (96.70 to 97.70): VF0
Ion 99.00 (98.70 to 99.70): VF0
Ion 61.00 (60.70 to 61.70): VF0

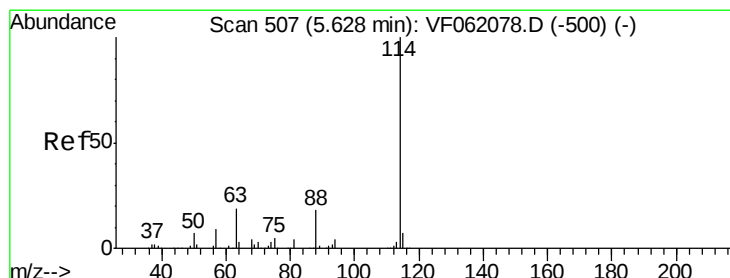
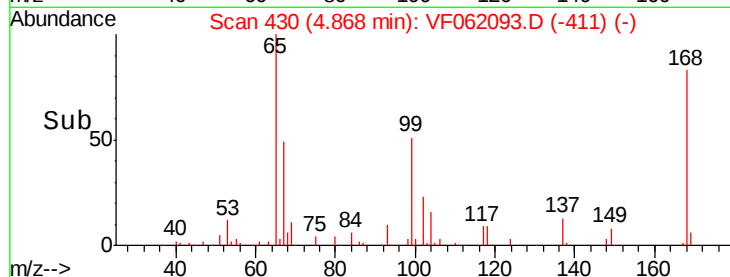
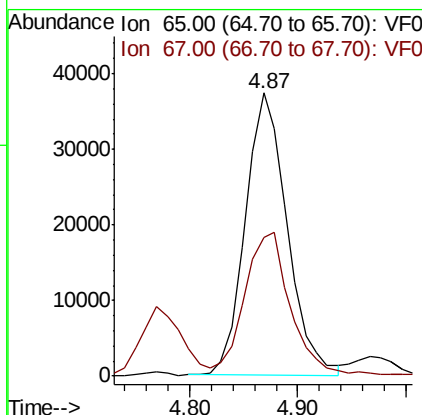
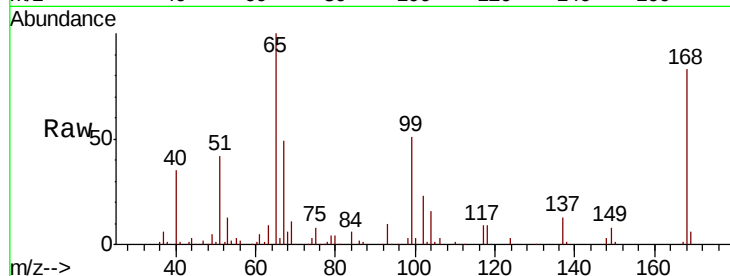




#33
 1,2-Dichloroethane-d4
 Concen: 51.148 ug/l
 RT: 4.87 min Scan# 430
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

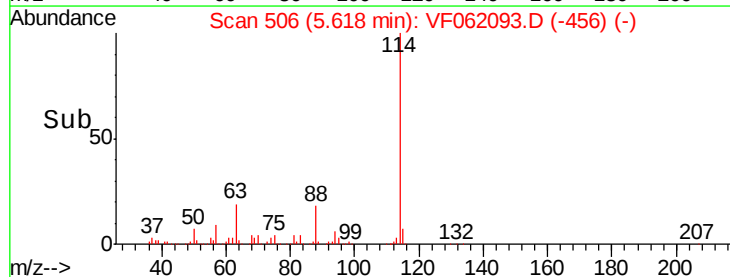
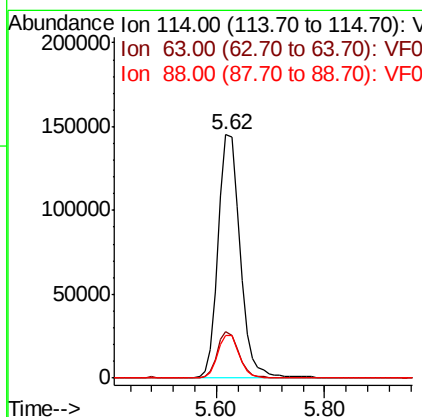
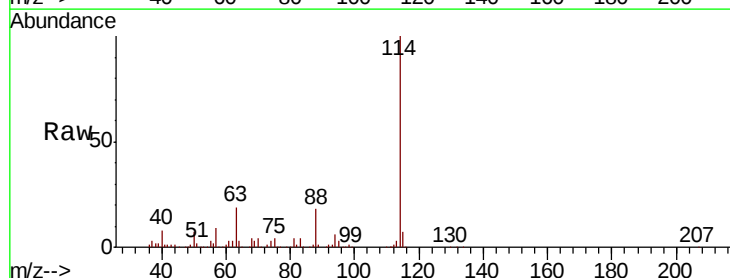
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

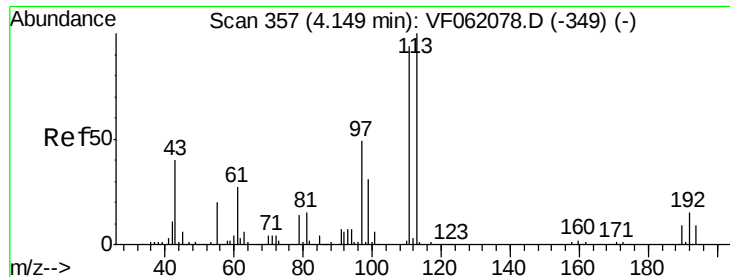
Tot Ion: 65 Resp: 100816
 Ion Ratio Lower Upper
 65 100
 67 49.2 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion: 114 Resp: 410732
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 37.8
 88 17.8 0.0 36.4





#35

Dibromofluoromethane

Concen: 51.072 ug/l

RT: 4.14 min Scan# 356

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

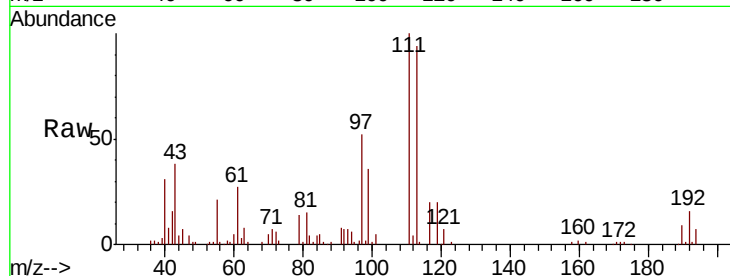
Tot Ion:113 Resp: 141901

Ion Ratio Lower Upper

113 100

111 106.4 75.4 113.0

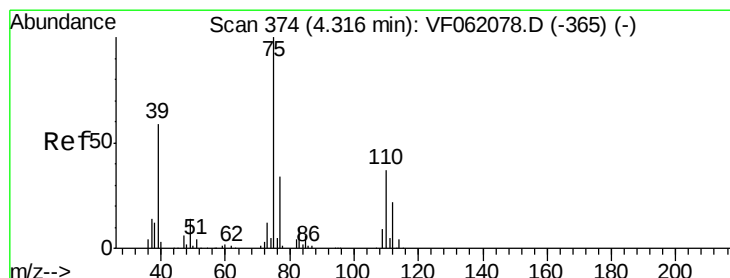
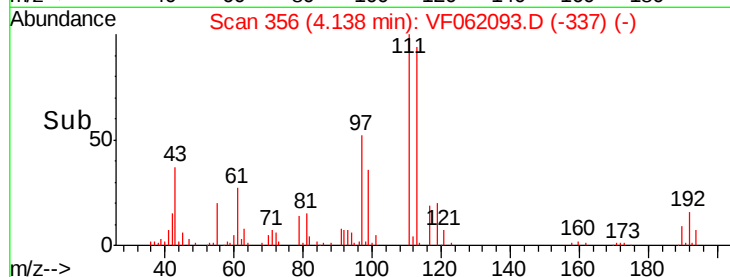
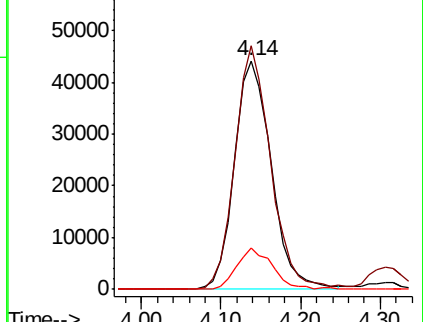
192 18.1 12.3 18.5



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 50.254 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

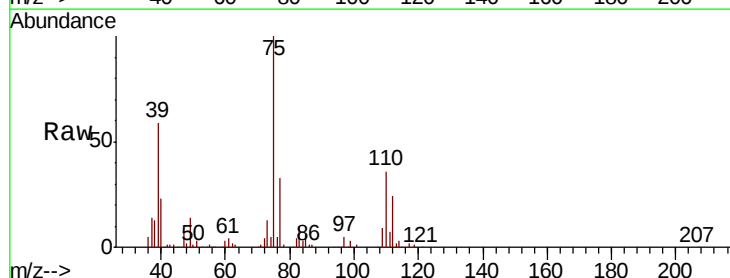
Tgt Ion: 75 Resp: 196603

Ion Ratio Lower Upper

75 100

110 35.9 18.5 55.5

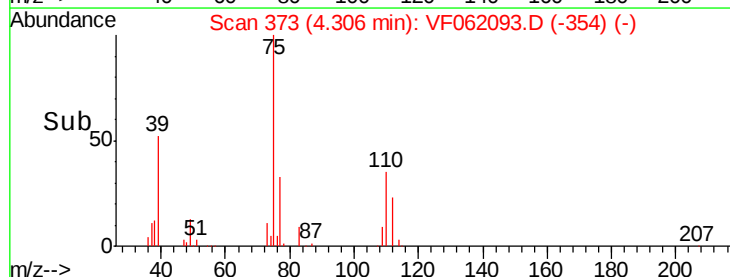
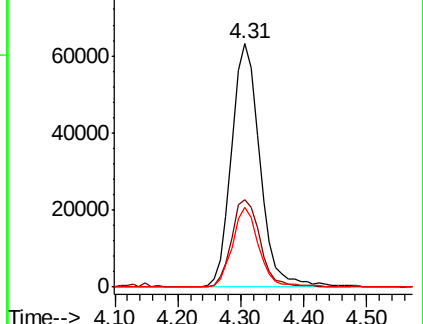
77 33.0 27.4 41.0

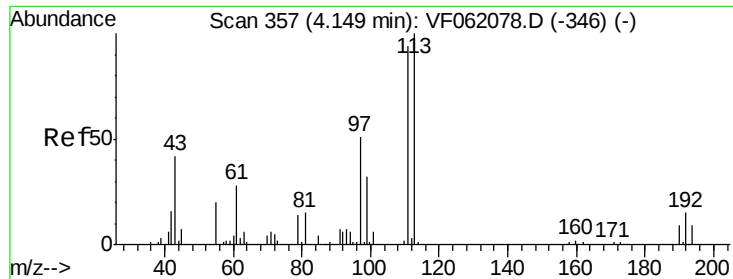


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

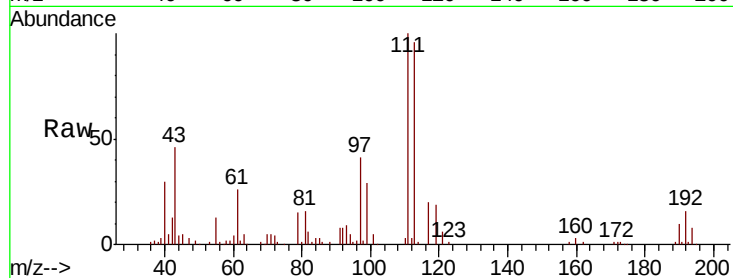




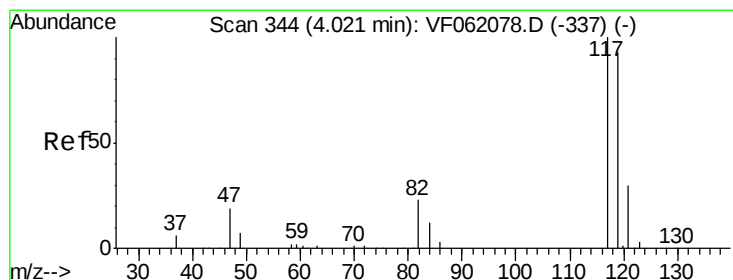
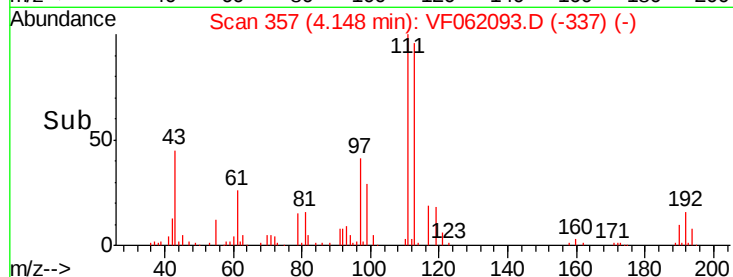
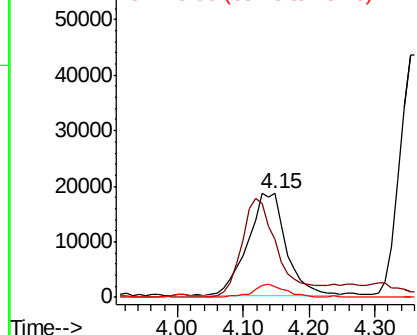
#37
Ethyl Acetate
Concen: 44.300 ug/l
RT: 4.15 min Scan# 357
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 43 Resp: 75742
Ion Ratio Lower Upper
43 100
61 56.0 53.6 80.4
70 10.4 9.0 13.6

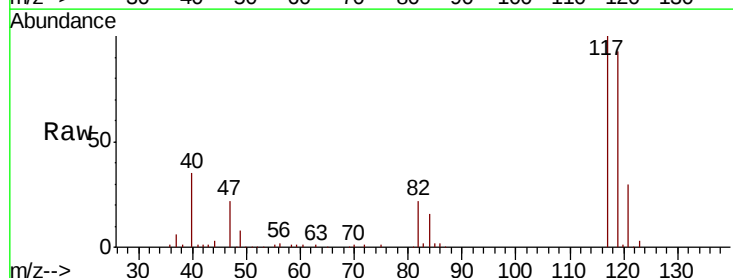


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

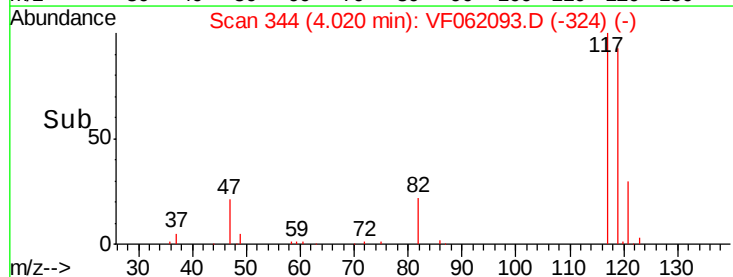
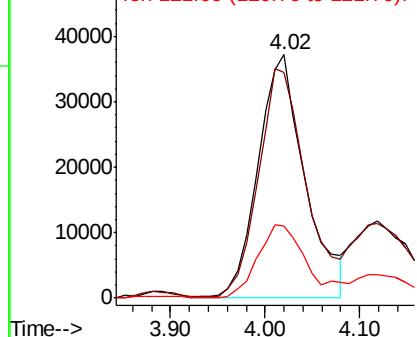


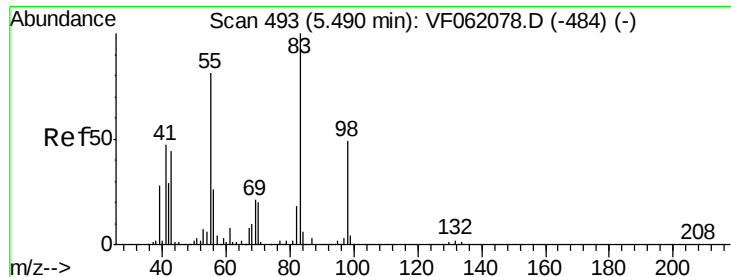
#38
Carbon Tetrachloride
Concen: 48.146 ug/l
RT: 4.02 min Scan# 344
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 117 Resp: 128380
Ion Ratio Lower Upper
117 100
119 92.8 74.7 112.1
121 30.0 23.6 35.4



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

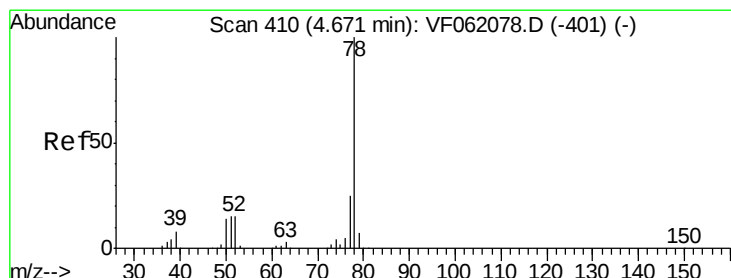
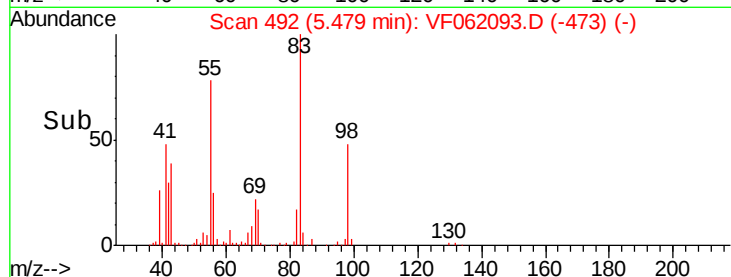
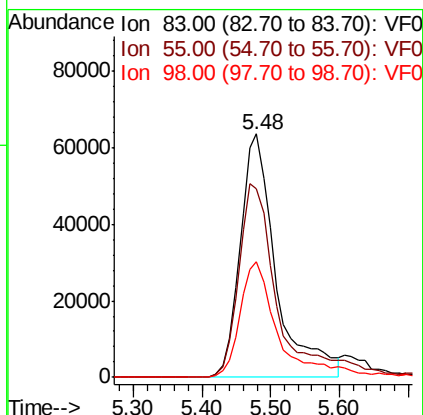
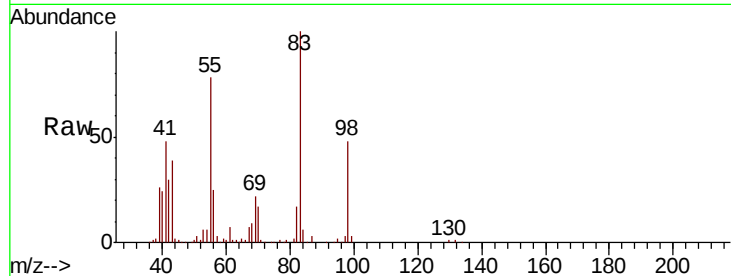




#39
Methvlcvclohexane
Concen: 50.888 ug/l
RT: 5.48 min Scan# 492
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

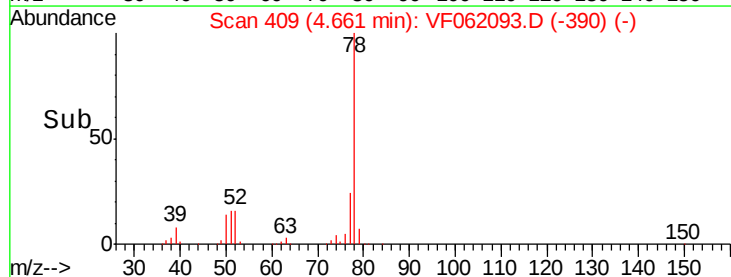
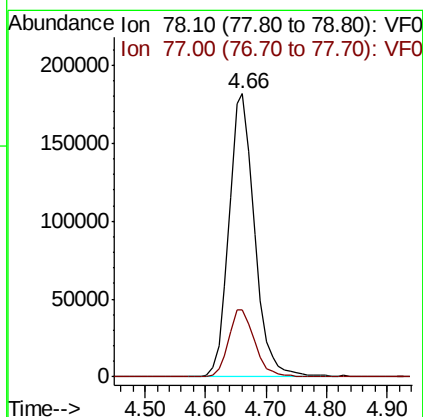
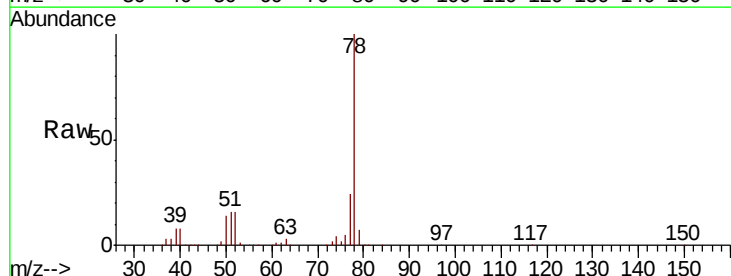
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

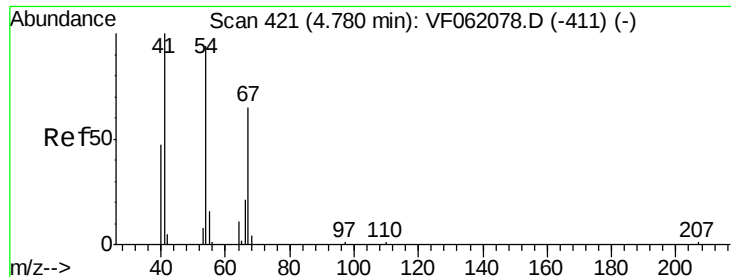
Tot Ion: 83 Resp: 231058
Ion Ratio Lower Upper
83 100
55 77.7 64.5 96.7
98 47.7 39.1 58.7



#40
Benzene
Concen: 51.015 ug/l
RT: 4.66 min Scan# 409
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 78 Resp: 535034
Ion Ratio Lower Upper
78 100
77 23.7 19.8 29.6

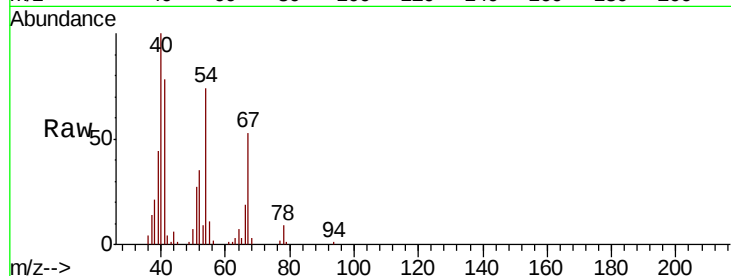




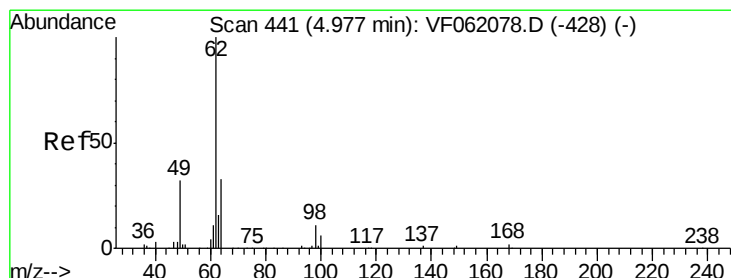
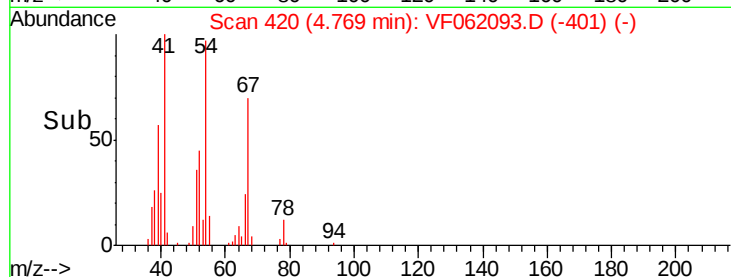
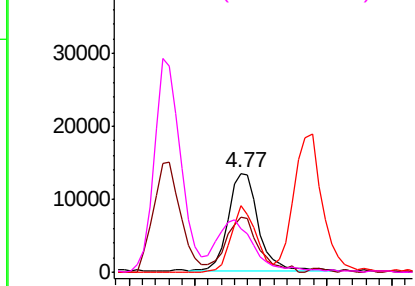
#41
Methacrylonitrile
Concen: 47.854 ug/l
RT: 4.77 min Scan# 420
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:	41	Resp:	43291
Ion	Ratio	Lower	Upper
41	100		
39	55.7	43.5	65.3
67	67.5	51.6	77.4
52	44.6	36.5	54.7

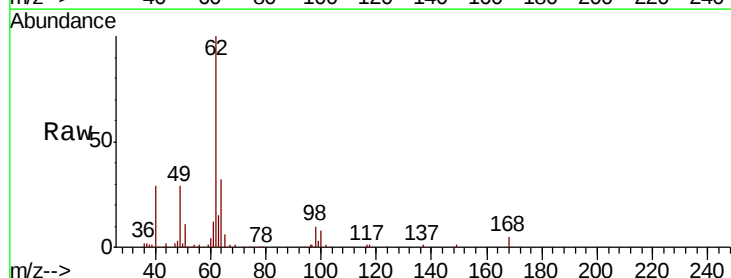


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

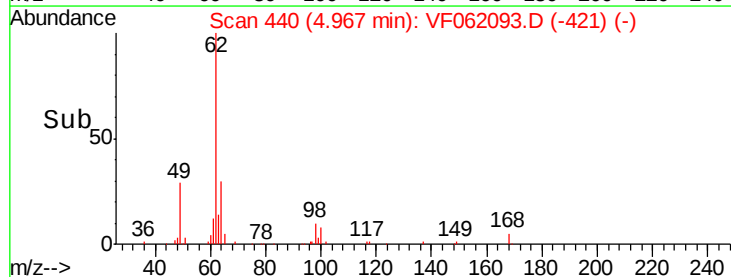
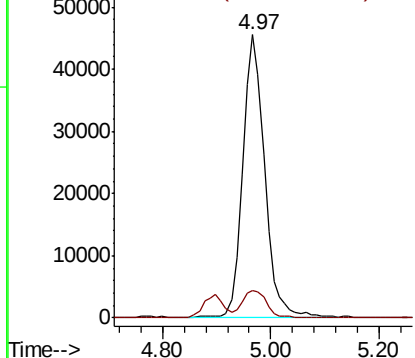


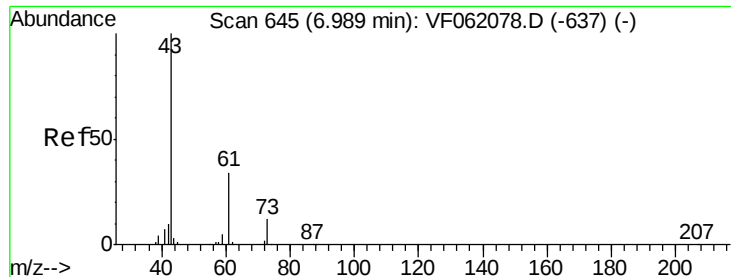
#42
1,2-Dichloroethane
Concen: 51.951 ug/l
RT: 4.97 min Scan# 440
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion:	62	Resp:	128846
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	23.2



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



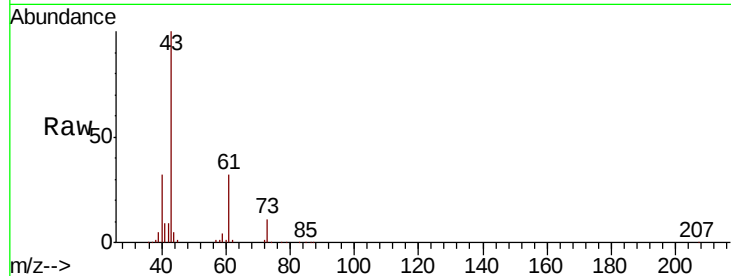


#43

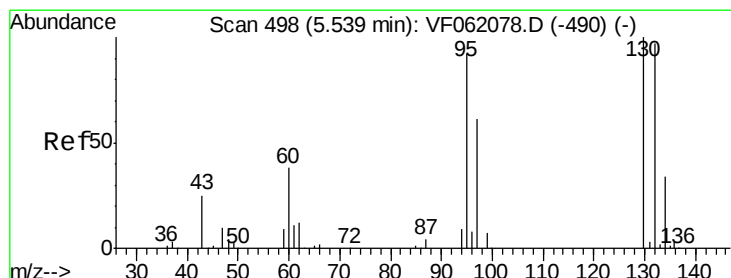
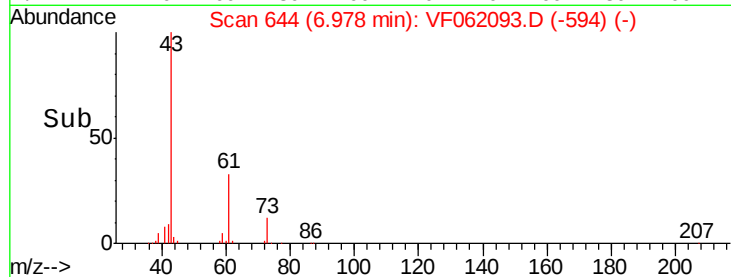
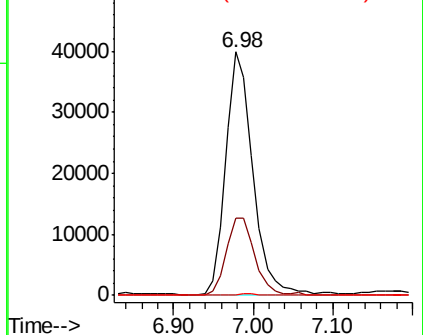
Isopropyl Acetate
 Concen: 46.660 ug/l
 RT: 6.98 min Scan# 644
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion: 43 Resp: 96614
 Ion Ratio Lower Upper
 43 100
 61 31.5 27.0 40.4
 87 0.3 0.4 0.6#



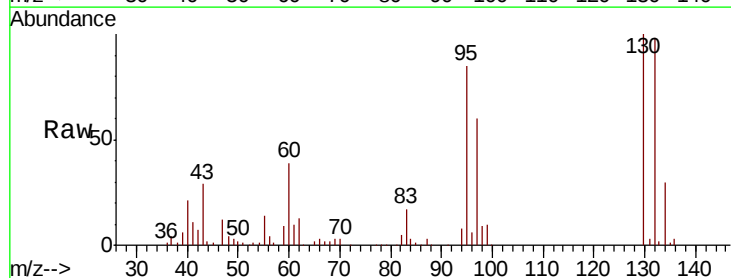
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



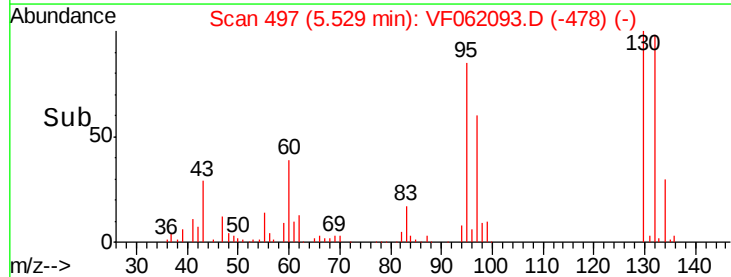
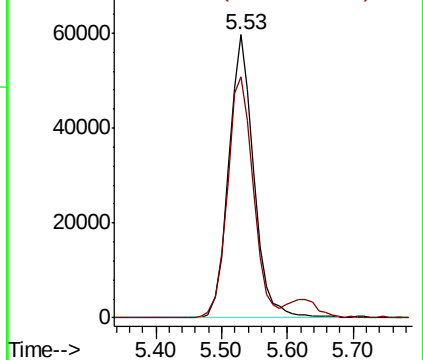
#44

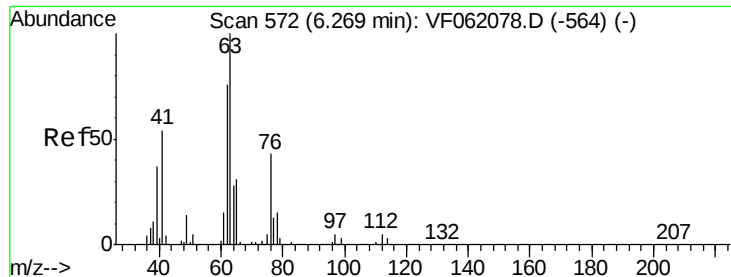
Trichloroethene
 Concen: 49.549 ug/l
 RT: 5.53 min Scan# 497
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion: 130 Resp: 158880
 Ion Ratio Lower Upper
 130 100
 95 85.4 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: 48.011 ug/l

RT: 6.26 min Scan# 571

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

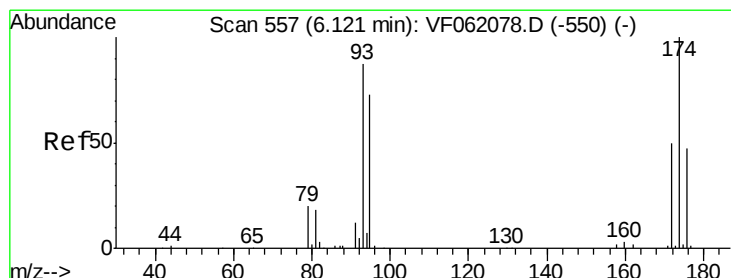
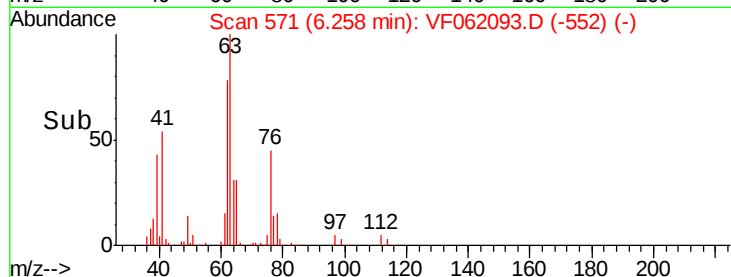
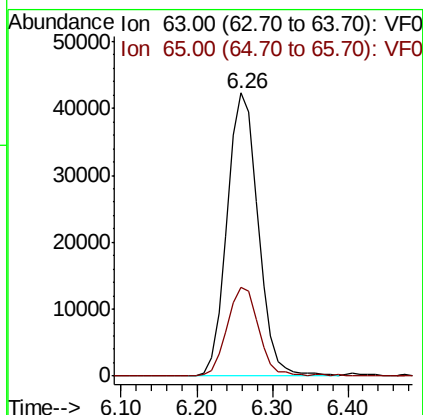
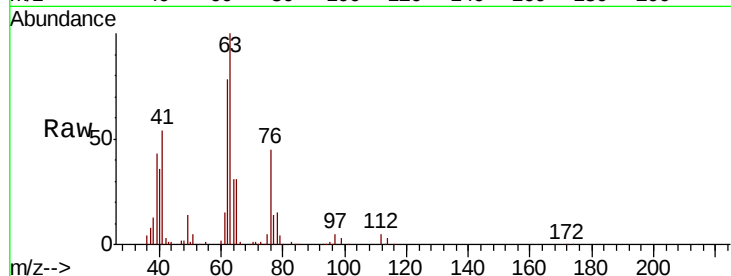
VSTDCCC050

Tot Ion: 63 Resp: 120098

Ion Ratio Lower Upper

63 100

65 31.5 24.9 37.3



#46

Dibromomethane

Concen: 48.787 ug/l

RT: 6.11 min Scan# 556

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

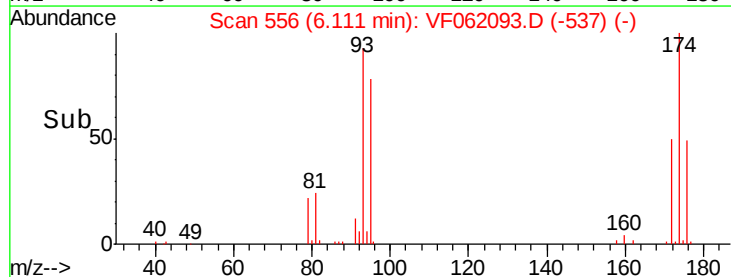
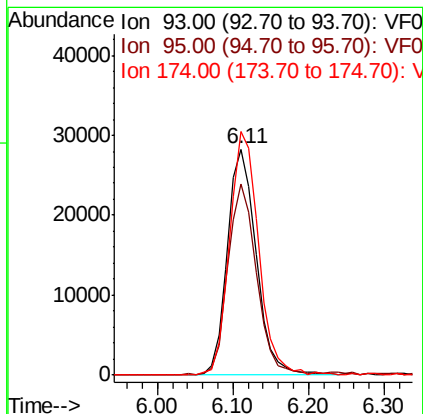
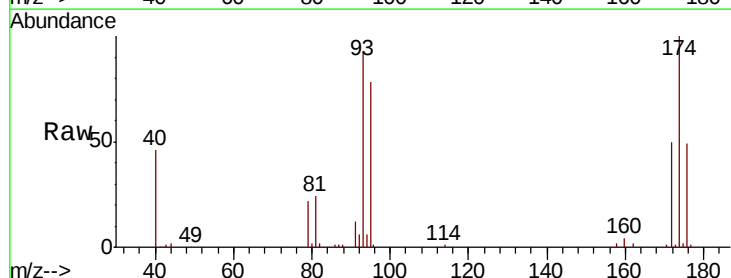
Tgt Ion: 93 Resp: 74619

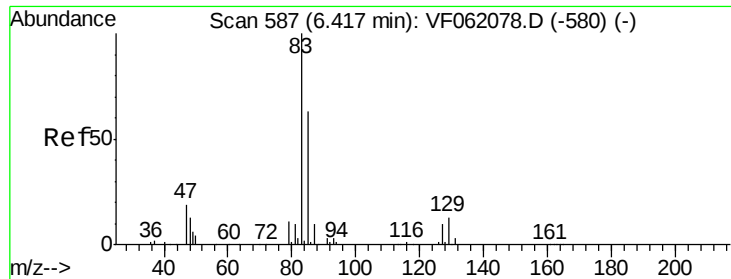
Ion Ratio Lower Upper

93 100

95 84.5 67.4 101.2

174 107.7 92.0 138.0





#47

Bromodichloromethane

Concen: 51.369 ug/l

RT: 6.41 min Scan# 586

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

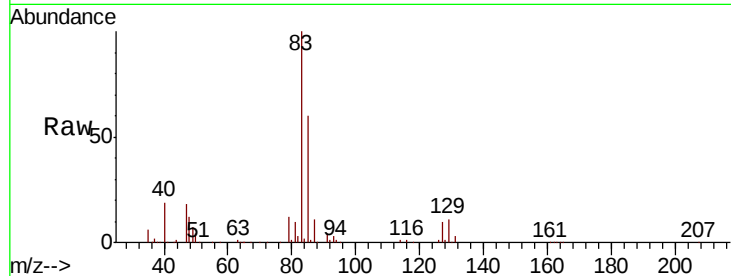
Tot Ion: 83 Resp: 174026

Ion Ratio Lower Upper

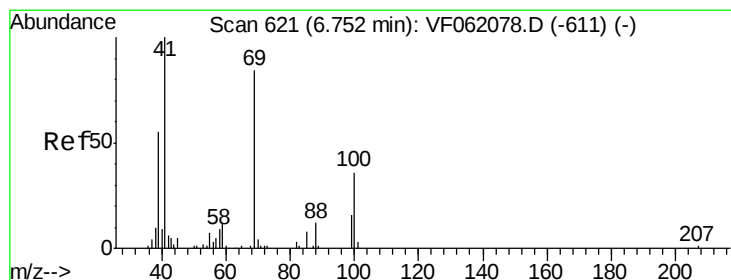
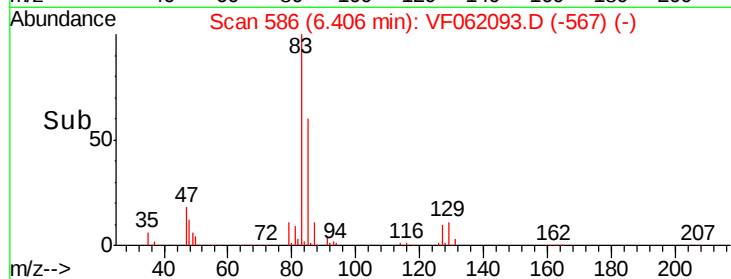
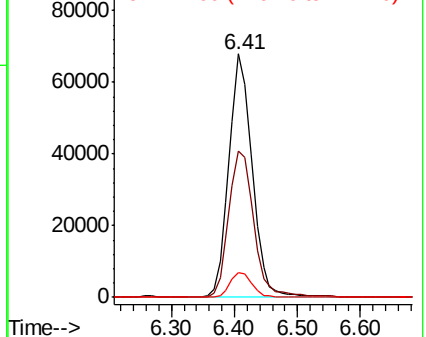
83 100

85 60.2 50.7 76.1

127 9.9 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: 50.026 ug/l

RT: 6.74 min Scan# 620

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

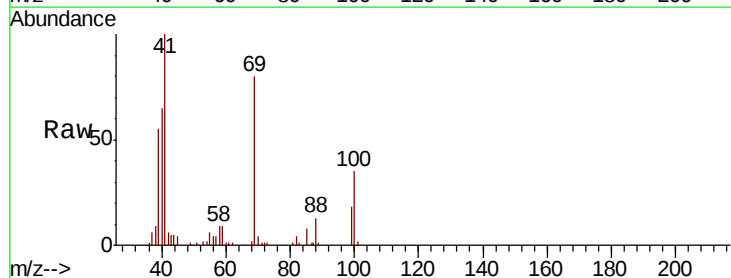
Tgt Ion: 41 Resp: 58978

Ion Ratio Lower Upper

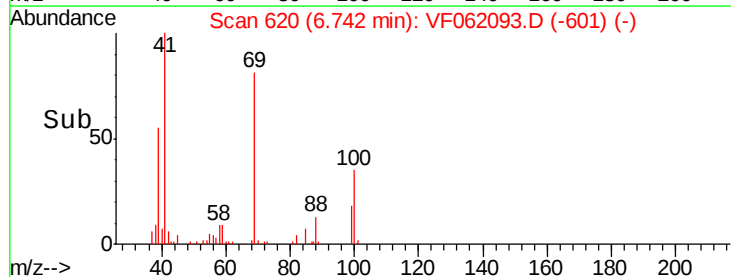
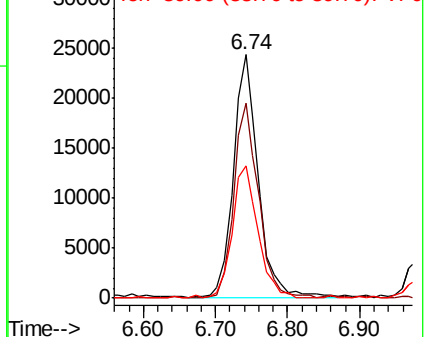
41 100

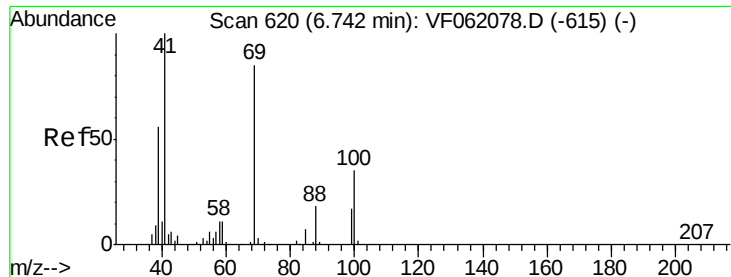
69 79.8 66.6 100.0

39 54.6 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: 962.511 ug/l

RT: 6.73 min Scan# 619

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

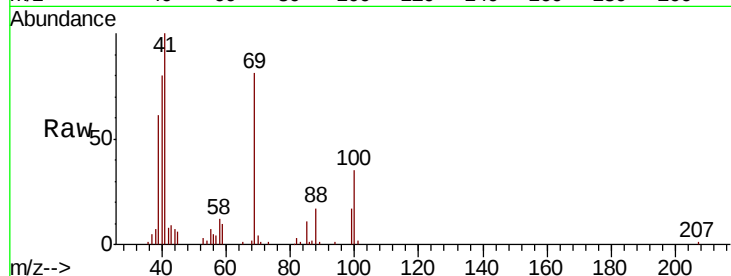
Tot Ion: 88 Resp: 9957

Ion Ratio Lower Upper

88 100

43 48.7 35.0 52.4

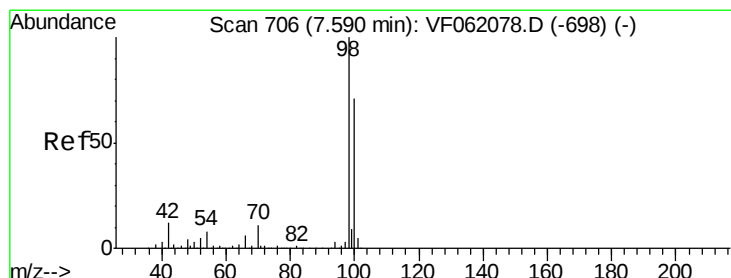
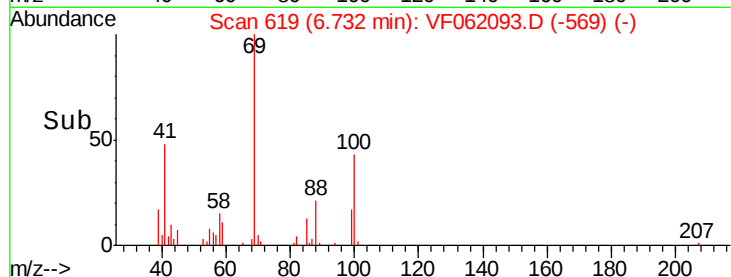
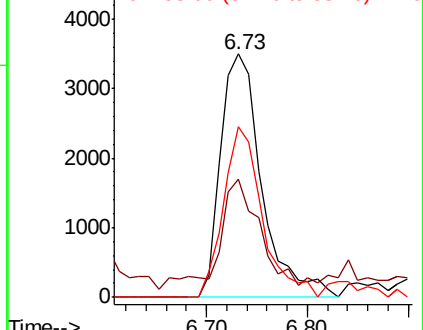
58 69.9 49.9 74.9



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 51.386 ug/l

RT: 7.58 min Scan# 705

Delta R.T. -0.01 min

Lab File: VF062093.D

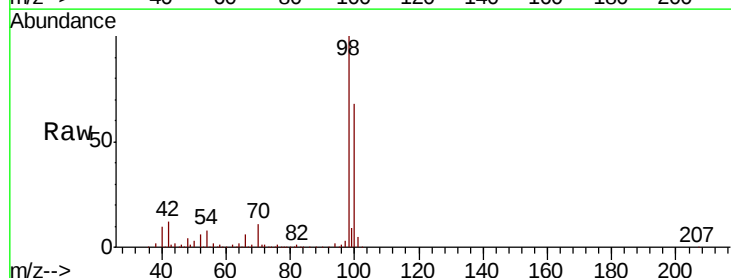
Acq: 22 Mar 2019 22:10

Tgt Ion: 98 Resp: 426178

Ion Ratio Lower Upper

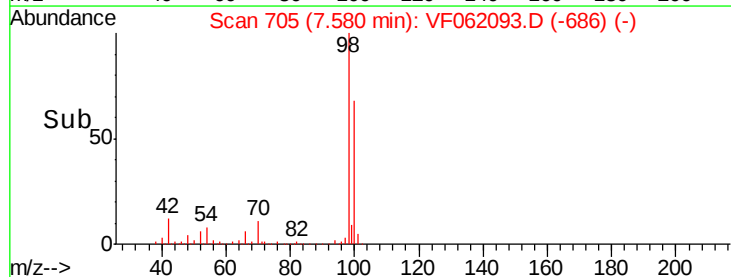
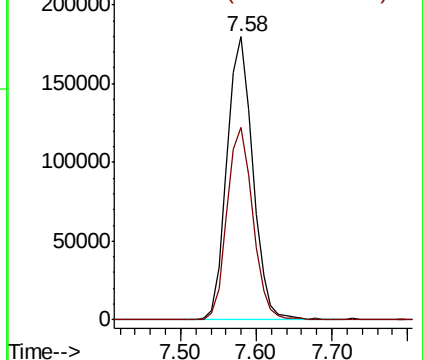
98 100

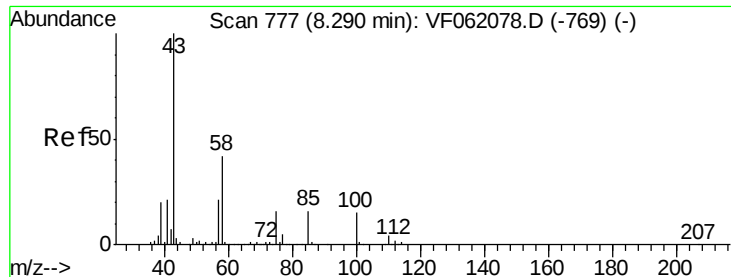
100 67.9 57.0 85.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 238.376 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

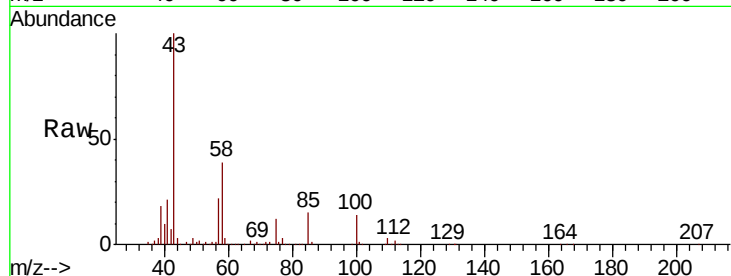
VSTDCCC050

Tot Ion: 43 Resp: 330359

Ion Ratio Lower Upper

43 100

58 38.7 33.8 50.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.28

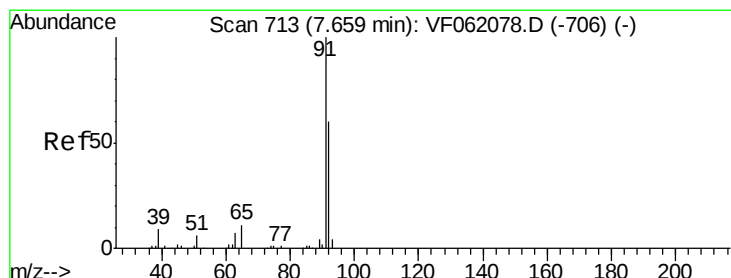
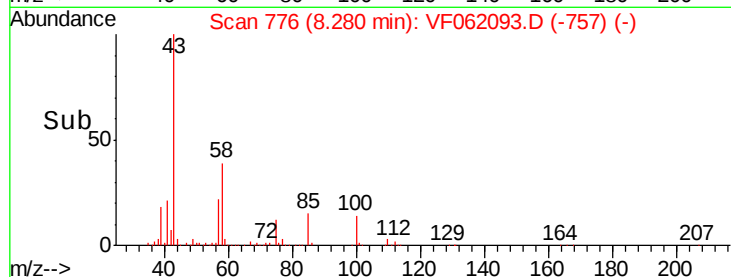
150000

100000

50000

0

Time--> 8.10 8.20 8.30 8.40 8.50



#52

Toluene

Concen: 50.562 ug/l

RT: 7.65 min Scan# 712

Delta R.T. -0.01 min

Lab File: VF062093.D

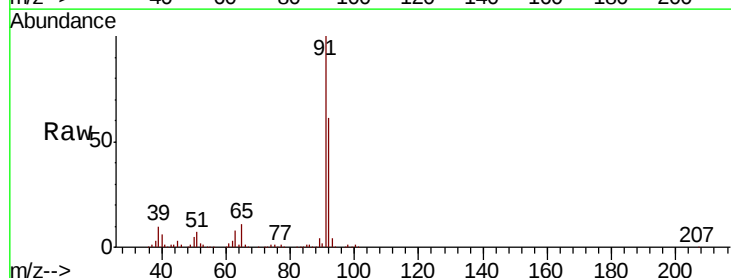
Acq: 22 Mar 2019 22:10

Tgt Ion: 92 Resp: 307145

Ion Ratio Lower Upper

92 100

91 163.1 134.1 201.1



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

250000

200000

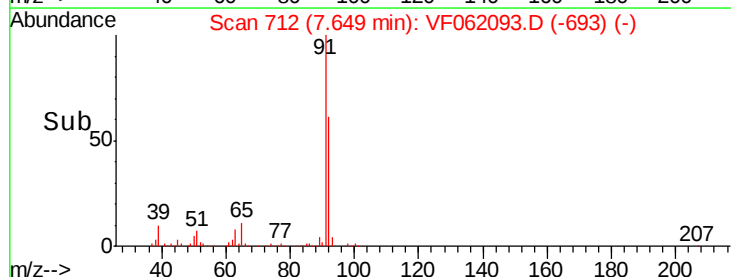
150000

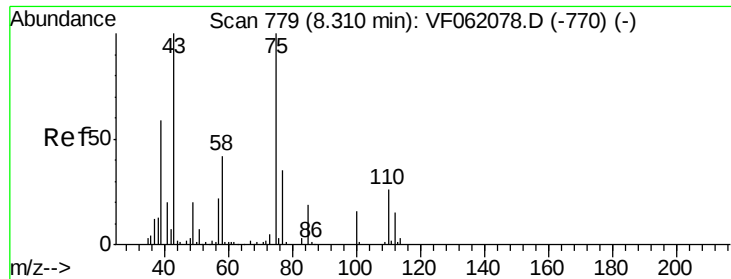
100000

50000

0

Time--> 7.50 7.60 7.70 7.80

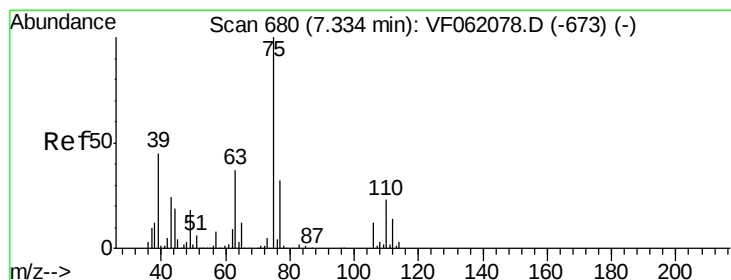
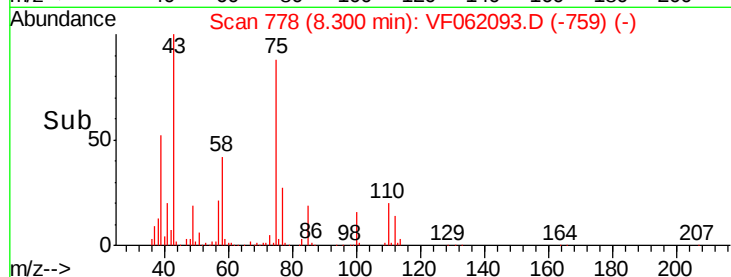
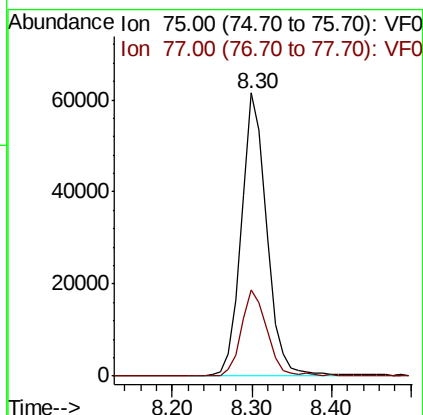
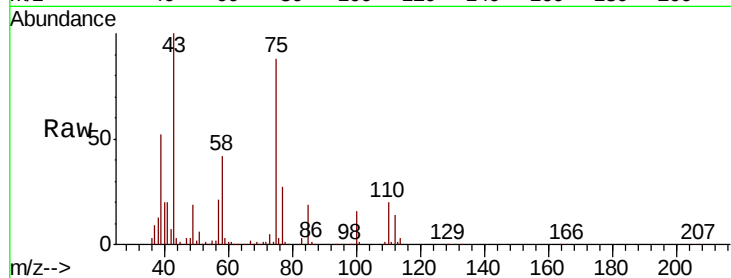




#53
 t-1,3-Dichloropropene
 Concen: 50.878 ug/l
 RT: 8.30 min Scan# 778
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

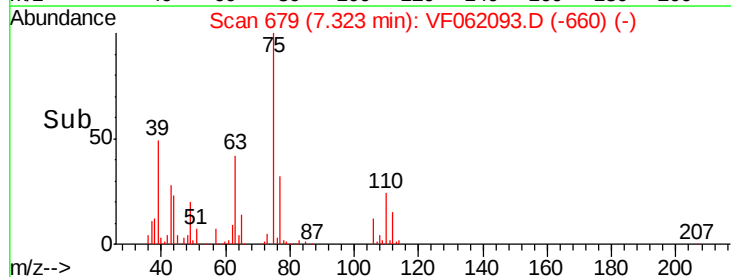
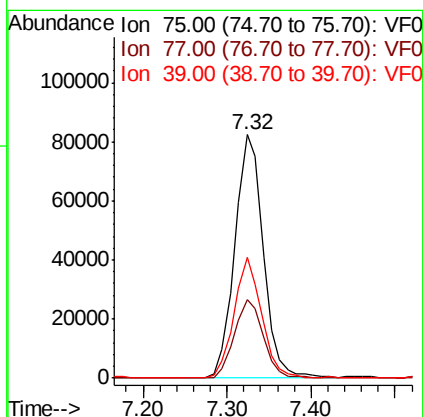
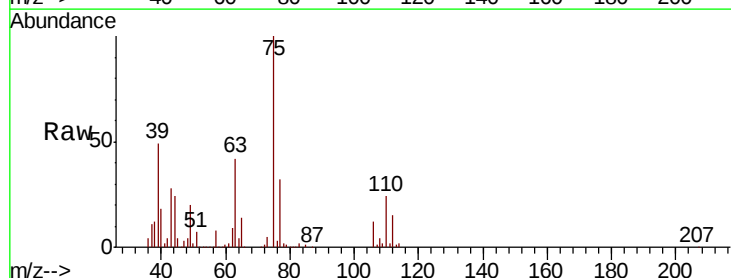
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

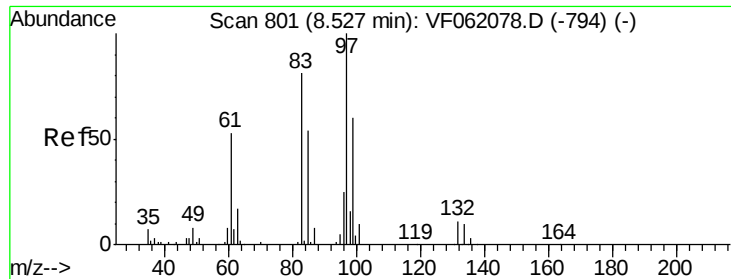
Tot Ion: 75 Resp: 135310
 Ion Ratio Lower Upper
 75 100
 77 30.3 28.0 42.0



#54
 cis-1,3-Dichloropropene
 Concen: 51.098 ug/l
 RT: 7.32 min Scan# 679
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion: 75 Resp: 194442
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.8 38.6
 39 49.5 35.9 53.9

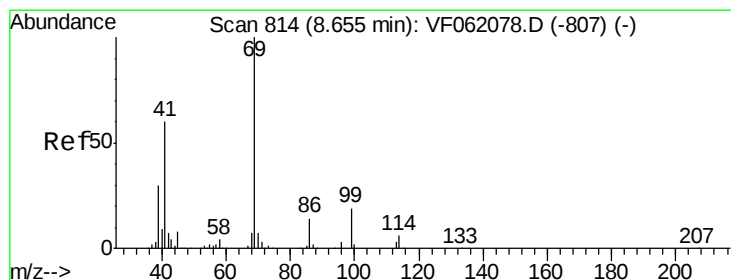
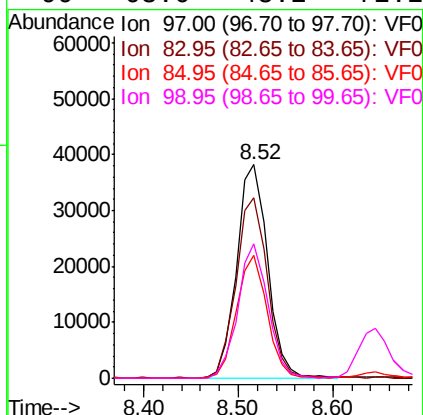
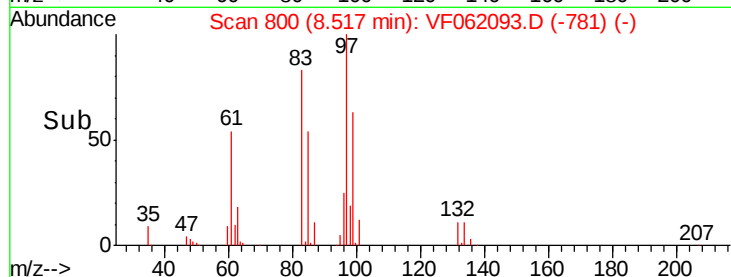
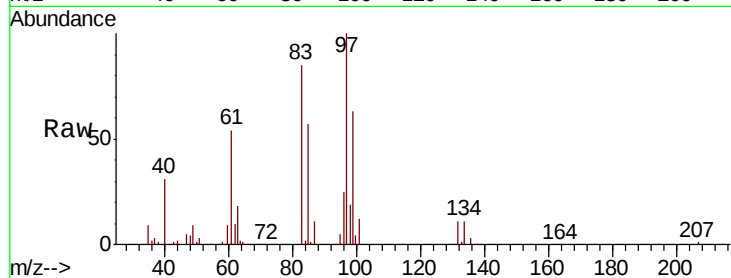




#55
 1,1,2-Trichloroethane
 Concen: 50.283 ug/l
 RT: 8.52 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

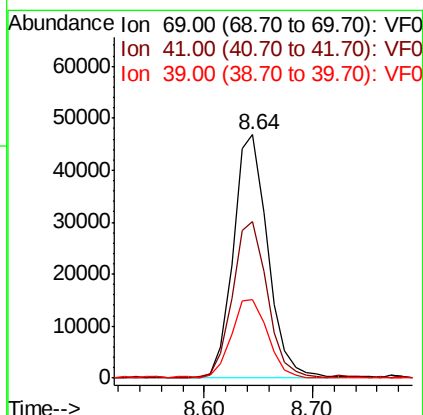
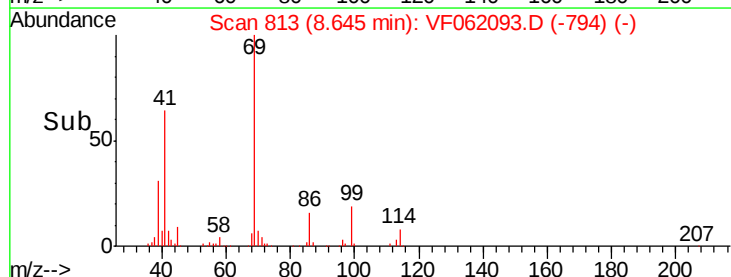
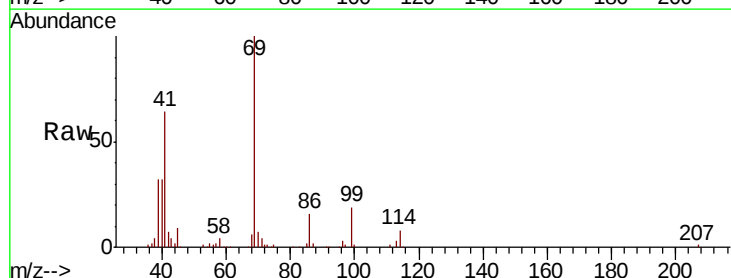
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

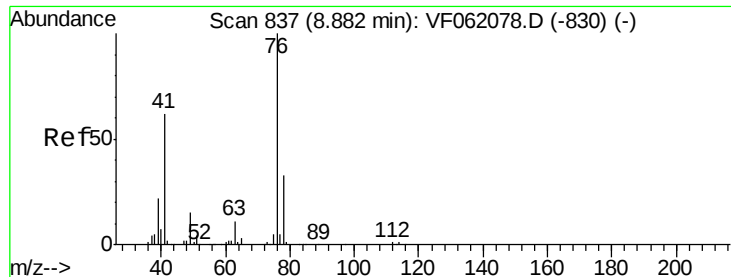
Tot Ion:	97	Resp:	86763
Ion	Ratio	Lower	Upper
97	100		
83	84.5	64.6	97.0
85	57.5	43.6	65.4
99	63.0	48.2	72.2



#56
 Ethyl methacrylate
 Concen: 50.418 ug/l
 RT: 8.64 min Scan# 813
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion:	69	Resp:	103751
Ion	Ratio	Lower	Upper
69	100		
41	64.2	48.2	72.2
39	32.0	24.0	36.0





#57

1,3-Dichloropropane

Concen: 50.339 ug/l

RT: 8.88 min Scan# 837

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

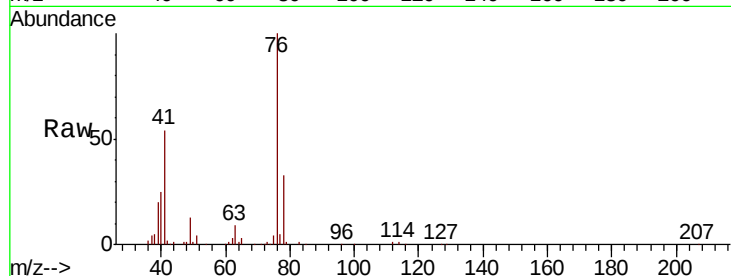
VSTDCCC050

Tot Ion: 76 Resp: 144161

Ion Ratio Lower Upper

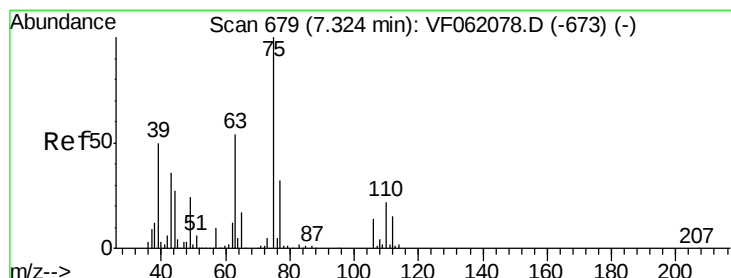
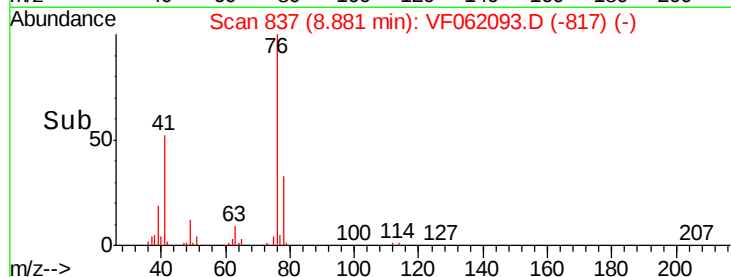
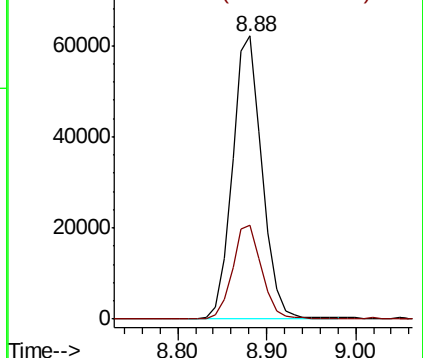
76 100

78 33.1 26.6 39.8



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 259.793 ug/l

RT: 7.32 min Scan# 679

Delta R.T. -0.00 min

Lab File: VF062093.D

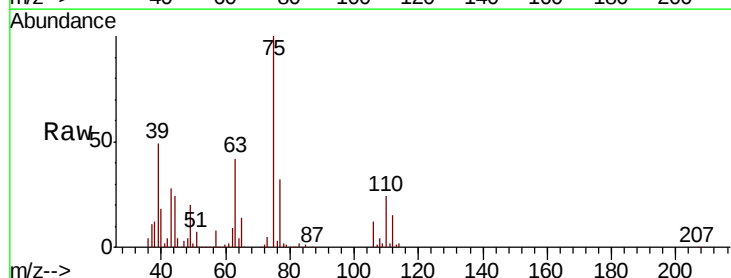
Acq: 22 Mar 2019 22:10

Tgt Ion: 63 Resp: 81123

Ion Ratio Lower Upper

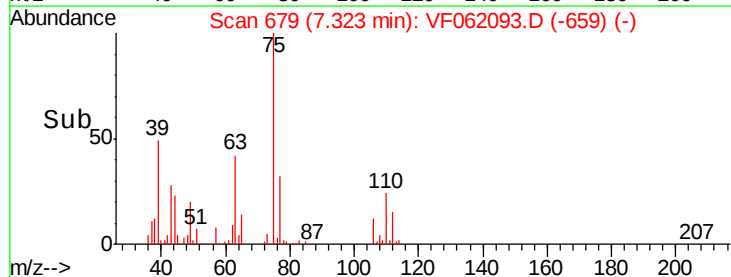
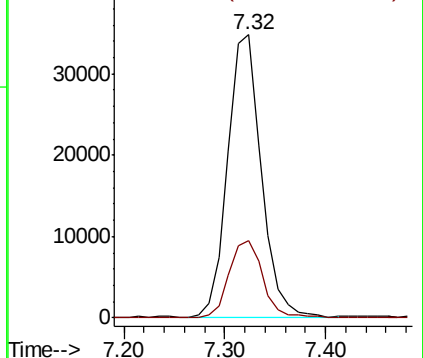
63 100

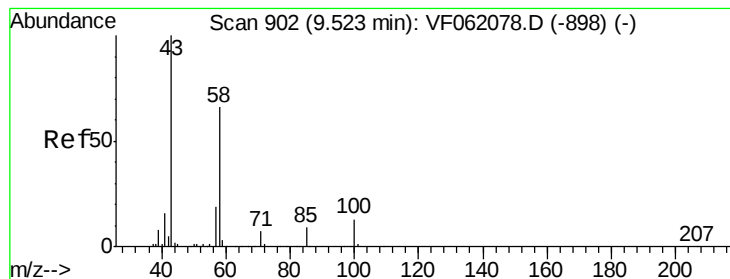
106 27.3 21.5 32.3



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 227.368 ug/l

RT: 9.51 min Scan# 901

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

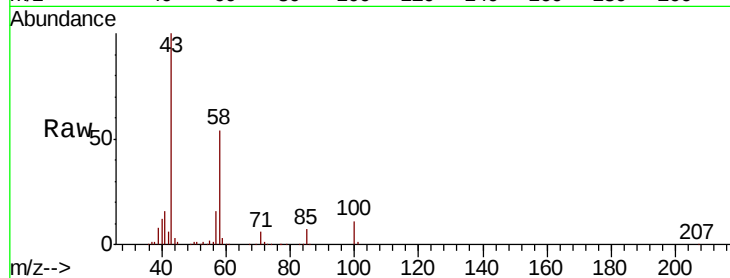
VSTDCCC050

Tot Ion: 43 Resp: 230942

Ion Ratio Lower Upper

43 100

58 54.2 28.8 86.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.51

120000

100000

80000

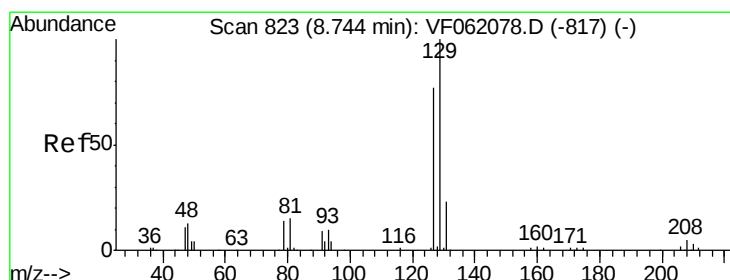
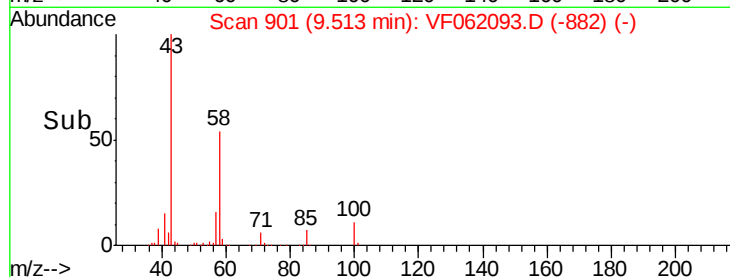
60000

40000

20000

0

Time--> 9.40 9.50 9.60 9.70



#60

Dibromochloromethane

Concen: 51.577 ug/l

RT: 8.74 min Scan# 823

Delta R.T. -0.00 min

Lab File: VF062093.D

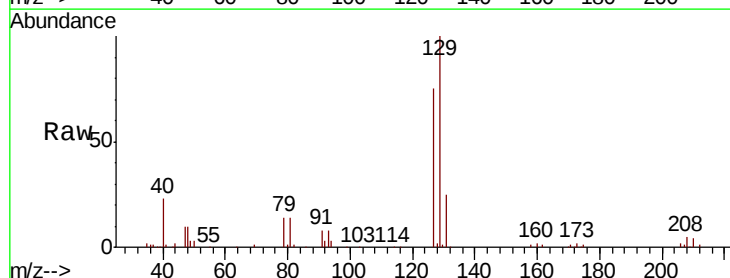
Acq: 22 Mar 2019 22:10

Tgt Ion: 129 Resp: 123719

Ion Ratio Lower Upper

129 100

127 75.4 38.7 116.1



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.74

60000

50000

40000

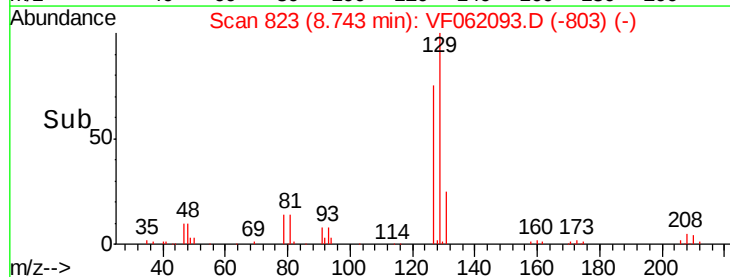
30000

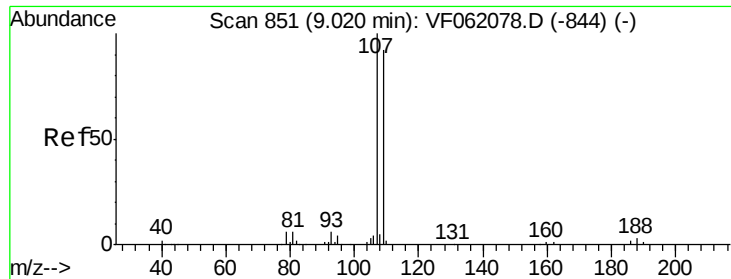
20000

10000

0

Time--> 8.60 8.70 8.80 8.90





#61

1,2-Dibromoethane

Concen: 49.382 ug/l

RT: 9.01 min Scan# 850

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

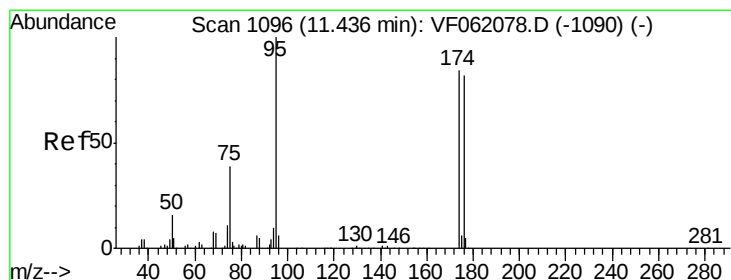
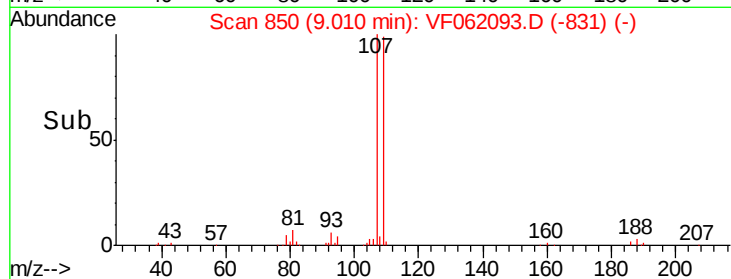
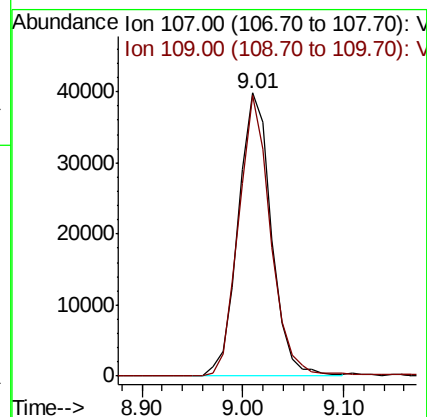
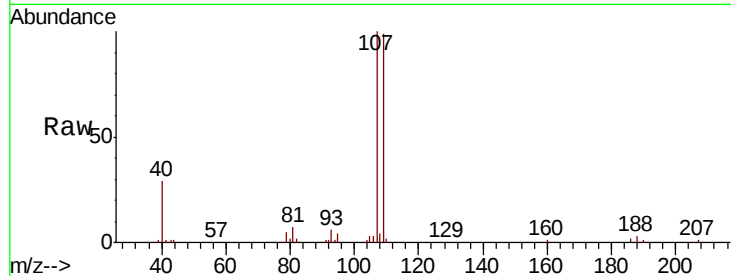
VSTDCCC050

Tot Ion:107 Resp: 90906

Ion Ratio Lower Upper

107 100

109 99.3 73.4 110.0



#62

4-Bromofluorobenzene

Concen: 51.369 ug/l

RT: 11.43 min Scan# 1095

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

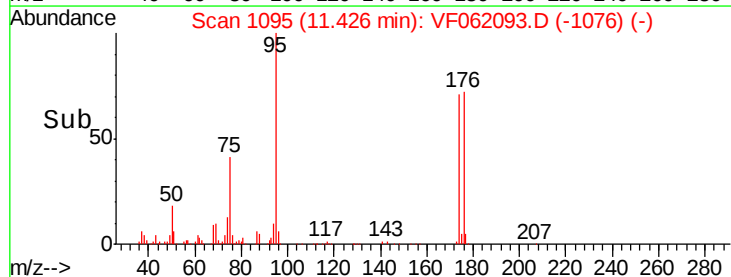
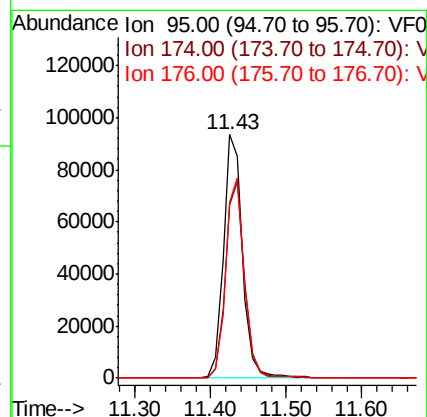
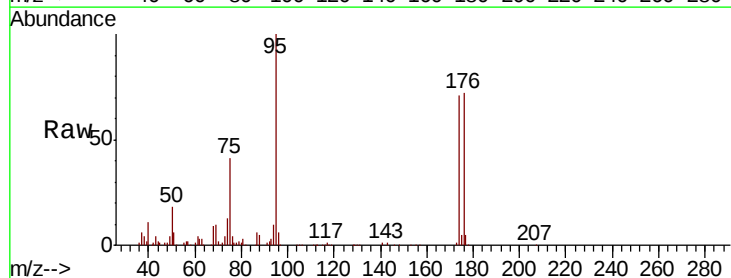
Tgt Ion: 95 Resp: 164474

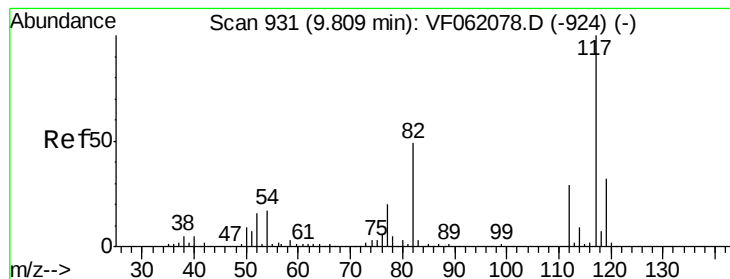
Ion Ratio Lower Upper

95 100

174 71.0 0.0 168.2

176 72.0 0.0 164.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

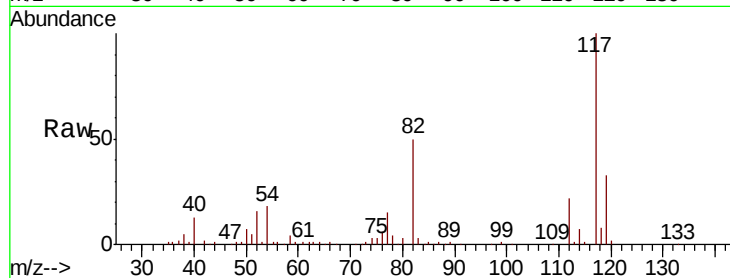
Tot Ion:117 Resp: 336282

Ion Ratio Lower Upper

117 100

82 50.2 39.2 58.8

119 33.0 25.4 38.2

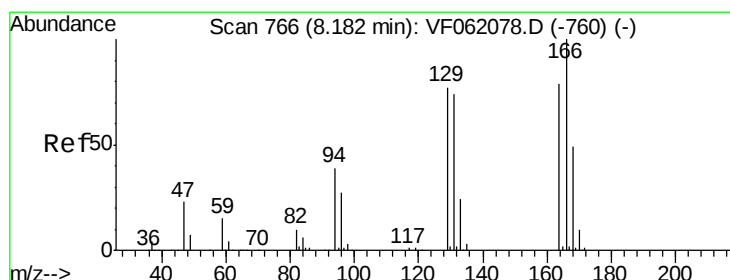
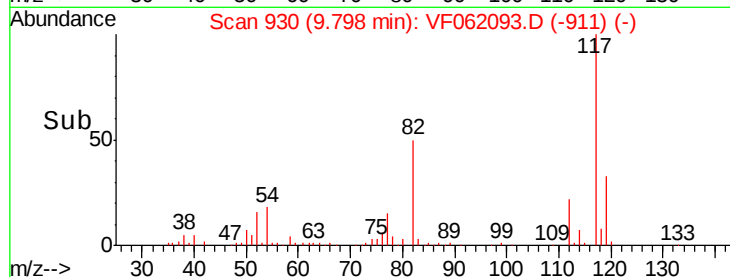
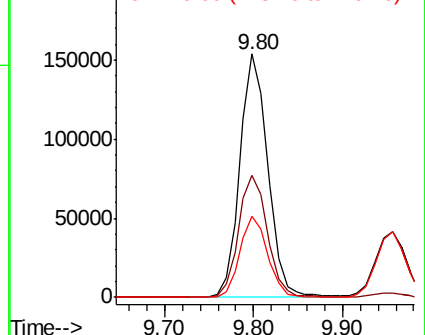


Abundance

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: 52.868 ug/l

RT: 8.18 min Scan# 766

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion:164 Resp: 137353

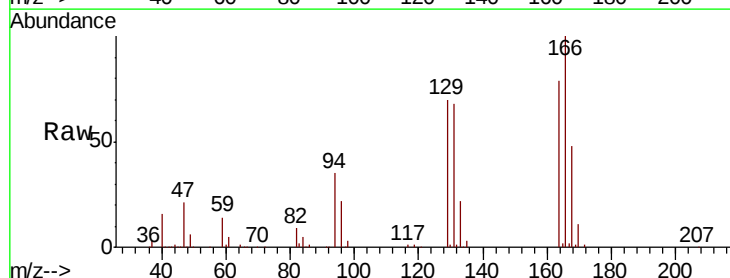
Ion Ratio Lower Upper

164 100

166 127.4 100.9 151.3

129 88.9 77.9 116.9

131 86.8 74.6 112.0



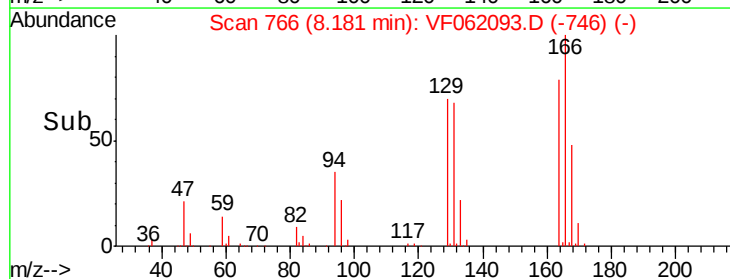
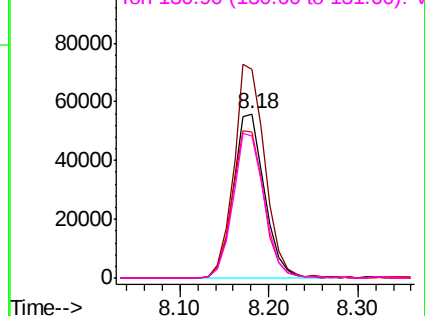
Abundance

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

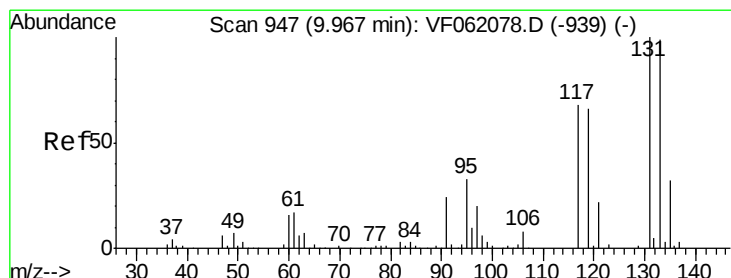
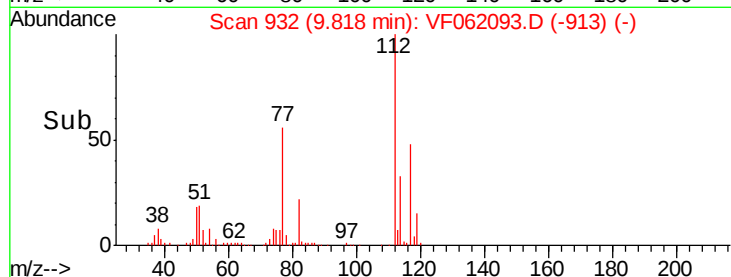
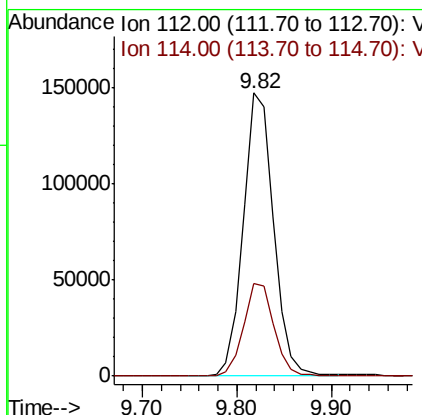
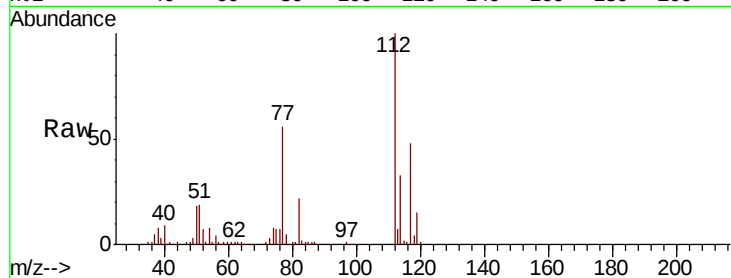




#65
Chlorobenzene
Concen: 51.994 ug/l
RT: 9.82 min Scan# 932
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

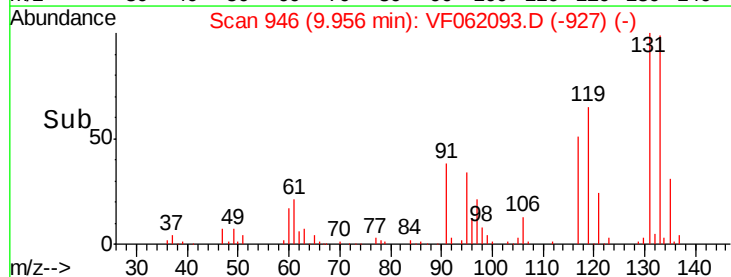
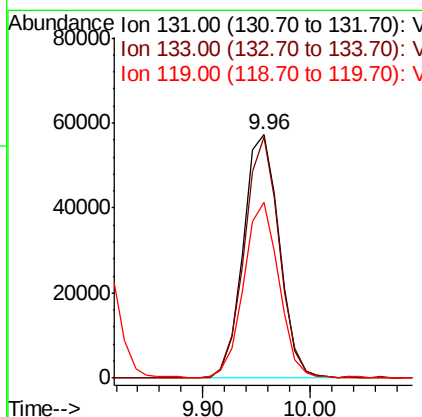
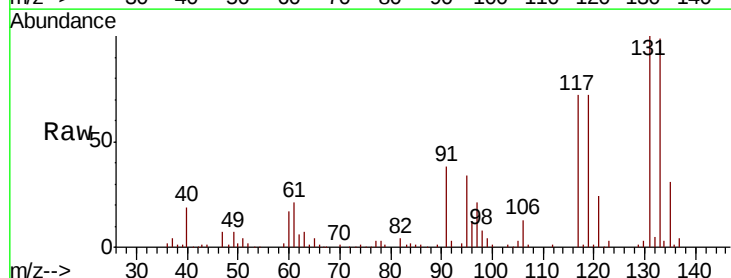
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

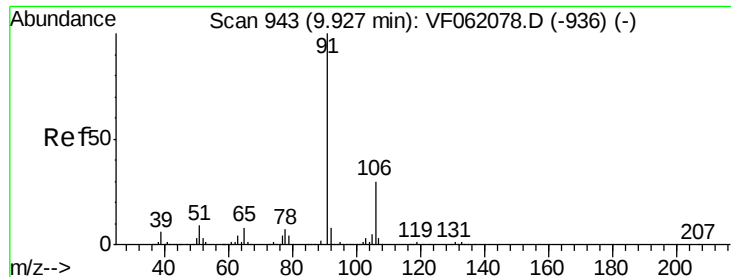
Tot Ion:112 Resp: 327149
Ion Ratio Lower Upper
112 100
114 32.6 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 52.678 ug/l
RT: 9.96 min Scan# 946
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion:131 Resp: 133139
Ion Ratio Lower Upper
131 100
133 98.8 49.3 147.8
119 71.9 33.5 100.4





#67

Ethyl Benzene

Concen: 52.933 ug/l

RT: 9.93 min Scan# 943

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

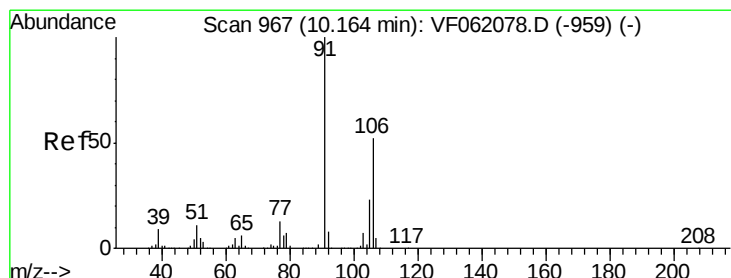
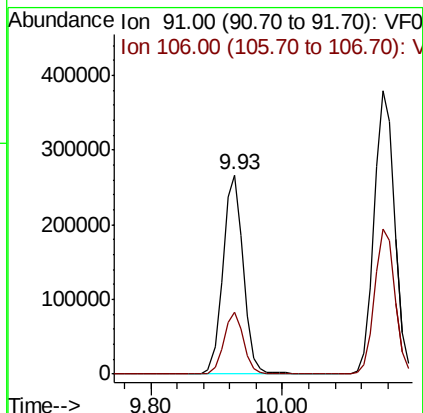
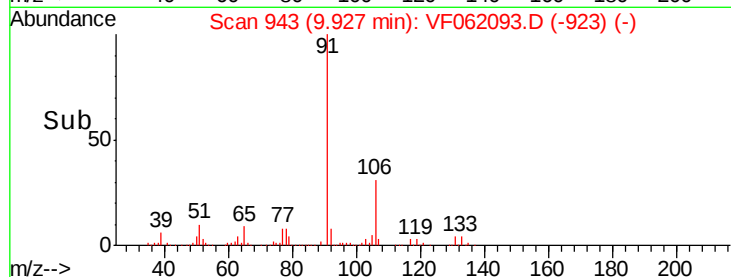
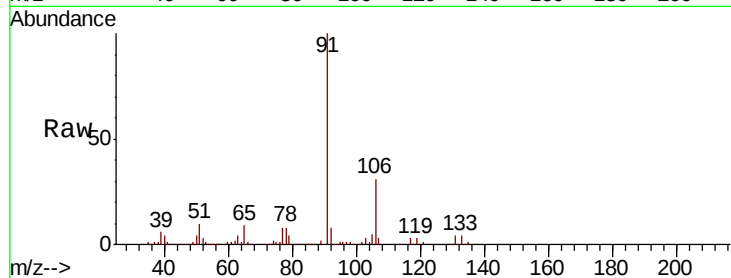
VSTDCCC050

Tot Ion: 91 Resp: 579214

Ion Ratio Lower Upper

91 100

106 30.9 24.0 36.0



#68

m/p-Xylenes

Concen: 104.436 ug/l

RT: 10.15 min Scan# 966

Delta R.T. -0.01 min

Lab File: VF062093.D

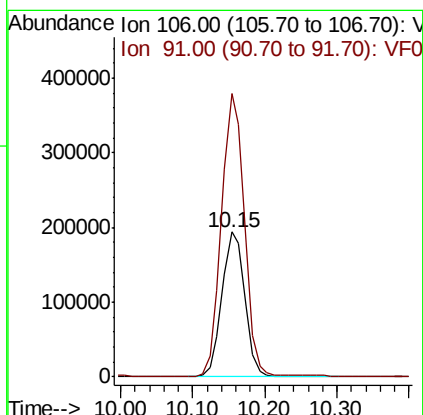
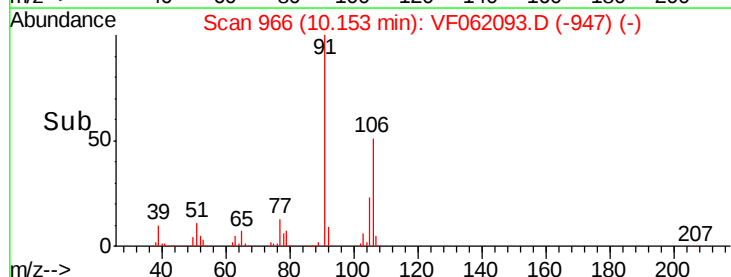
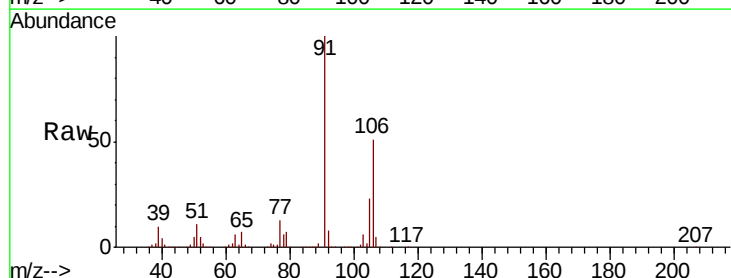
Acq: 22 Mar 2019 22:10

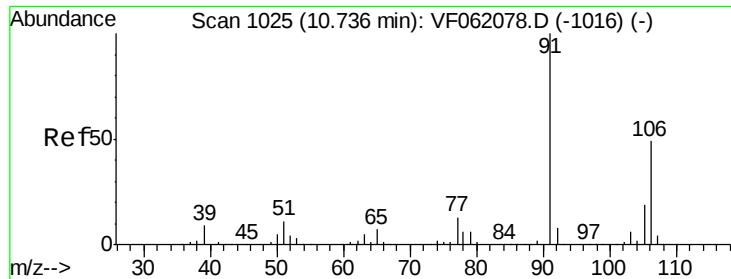
Tgt Ion: 106 Resp: 427128

Ion Ratio Lower Upper

106 100

91 195.6 154.4 231.6

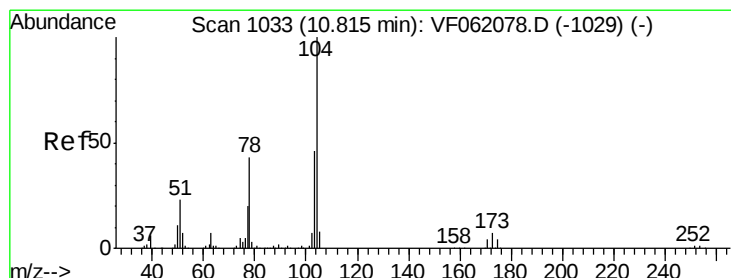
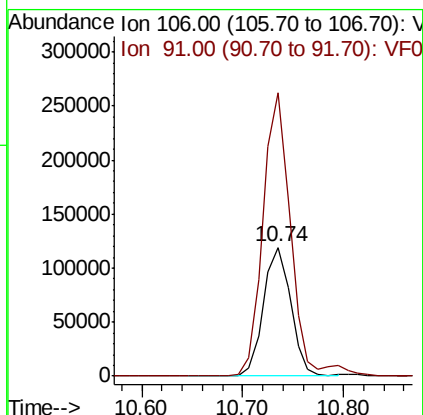
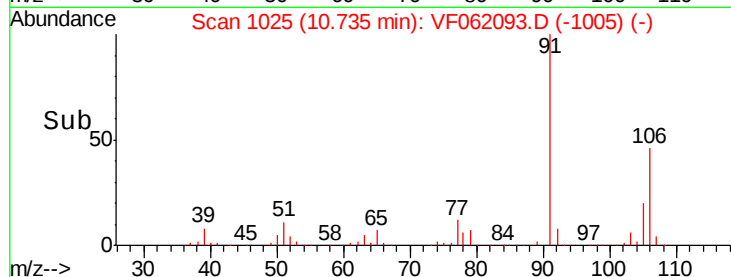
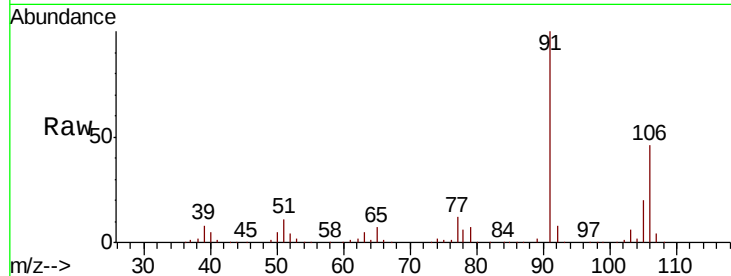




#69
o-Xylene
Concen: 52.593 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

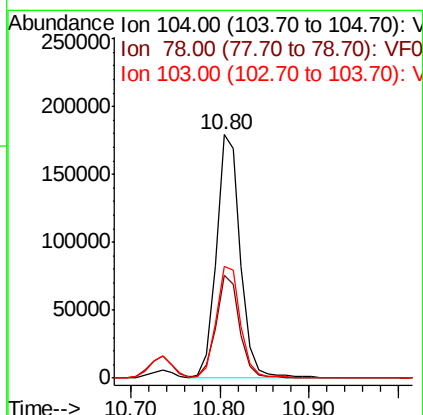
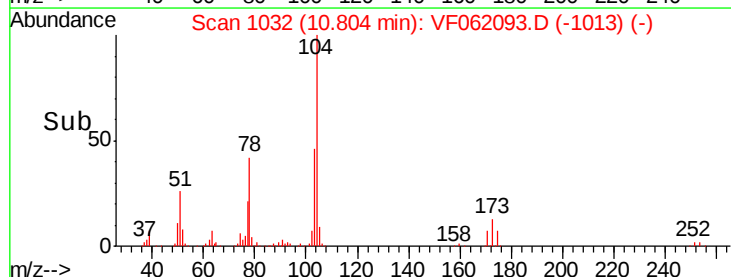
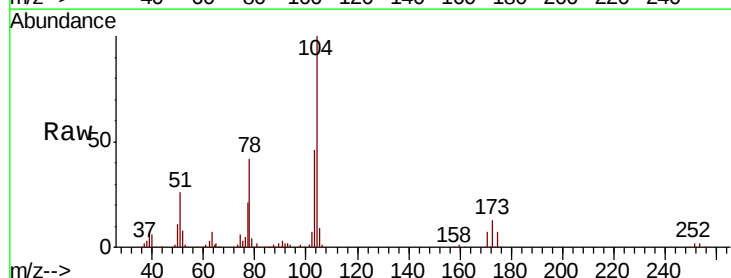
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

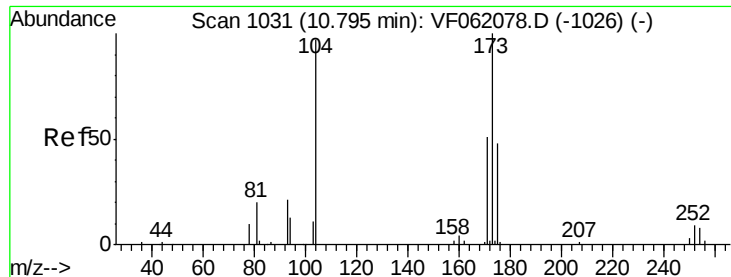
Tot Ion:106 Resp: 225284
Ion Ratio Lower Upper
106 100
91 219.4 102.6 307.8



#70
Styrene
Concen: 51.974 ug/l
RT: 10.80 min Scan# 1032
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion:104 Resp: 337315
Ion Ratio Lower Upper
104 100
78 42.0 34.3 51.5
103 46.2 36.9 55.3





#71

Bromoform

Concen: 49.902 ug/l

RT: 10.79 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

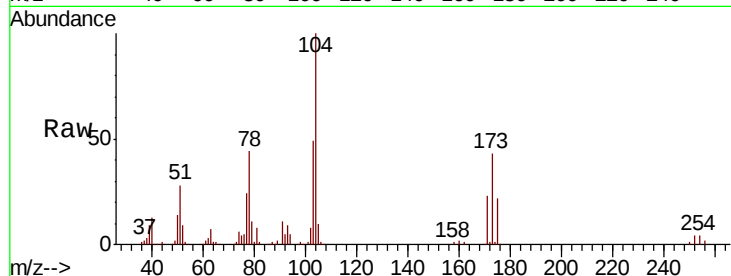
Tot Ion:173 Resp: 64511

Ion Ratio Lower Upper

173 100

175 51.2 24.1 72.4

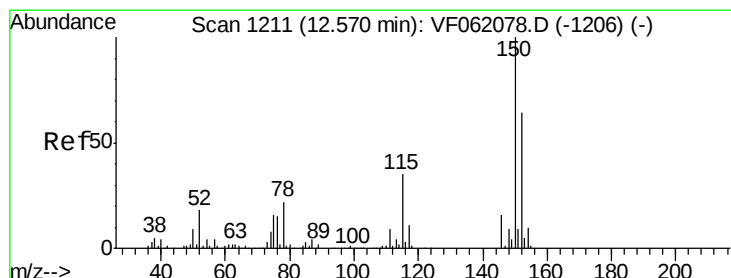
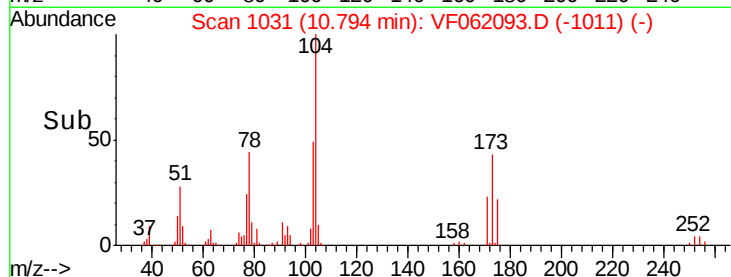
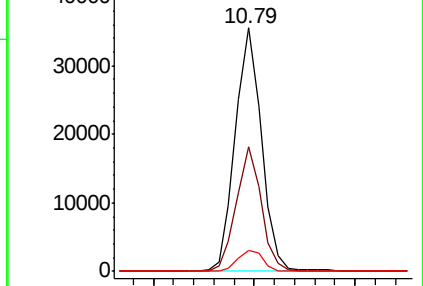
254 8.5 6.2 9.4



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: 12.57 min Scan# 1211

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

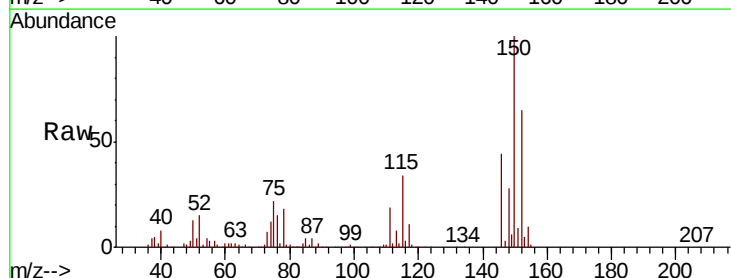
Tgt Ion:152 Resp: 173209

Ion Ratio Lower Upper

152 100

115 52.5 27.7 83.1

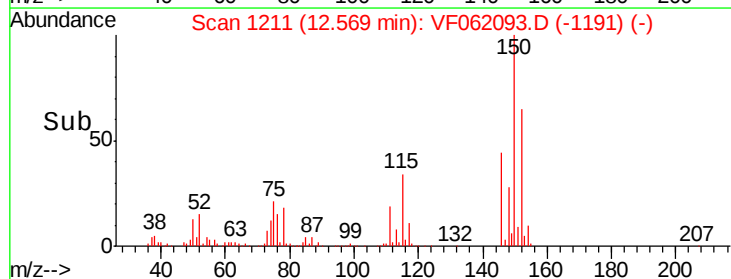
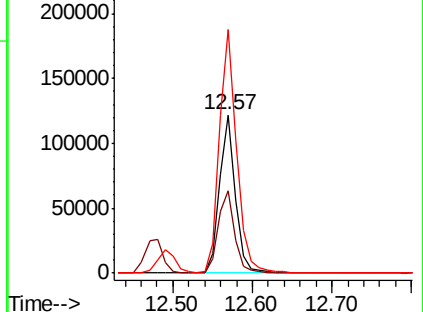
150 154.0 0.0 313.2

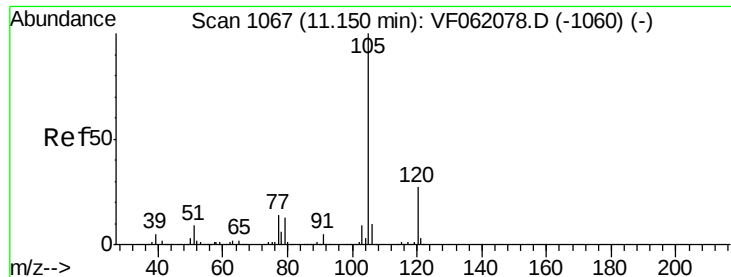


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 53.848 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

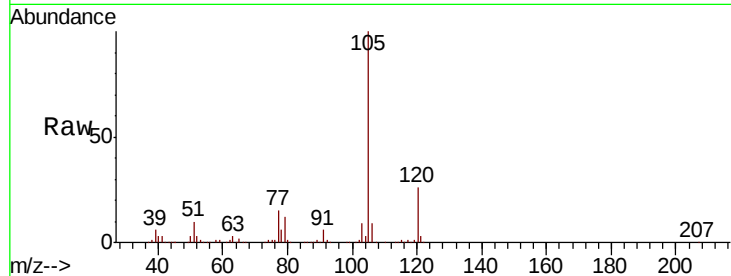
VSTDCCC050

Tot Ion:105 Resp: 656309

Ion Ratio Lower Upper

105 100

120 25.8 13.8 41.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.14

400000

300000

200000

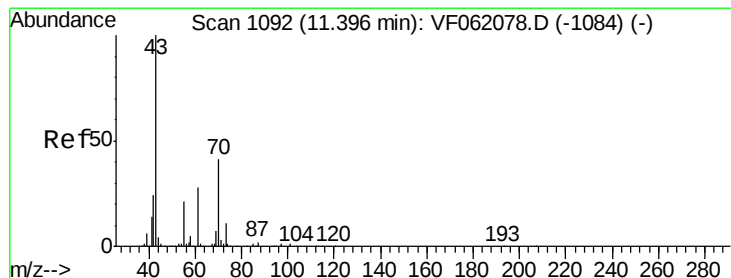
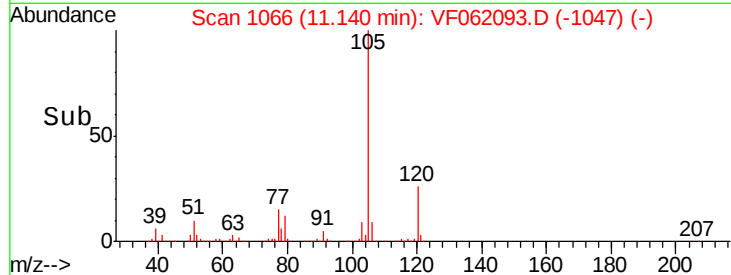
100000

0

Time-->

11.00

11.20



#74

N-ethyl acetate

Concen: 53.824 ug/l

RT: 11.39 min Scan# 1091

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Tgt Ion: 43 Resp: 156312

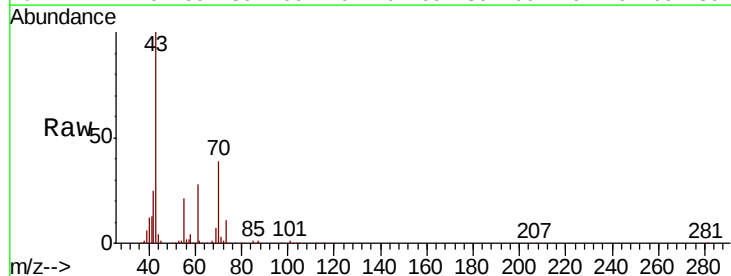
Ion Ratio Lower Upper

43 100

70 38.6 32.9 49.3

55 20.8 17.1 25.7

61 27.7 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

150000

100000

50000

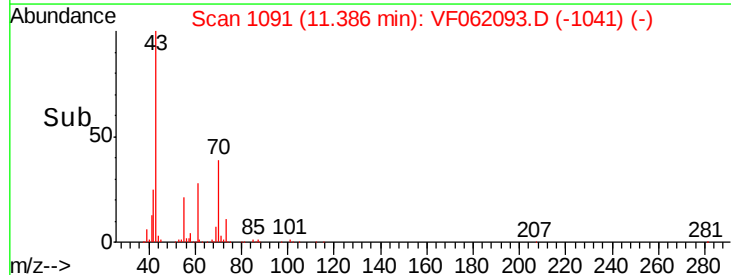
0

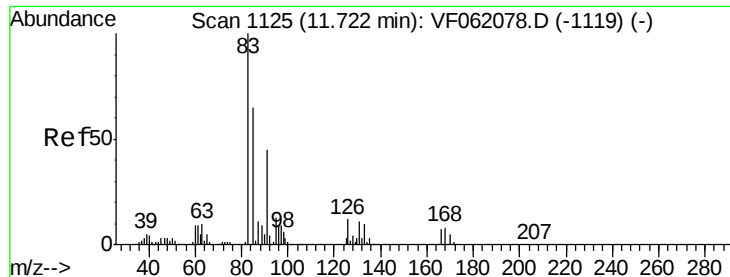
Time-->

11.30

11.40

11.50





#75

1,1,2,2-Tetrachloroethane

Concen: 49.491 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

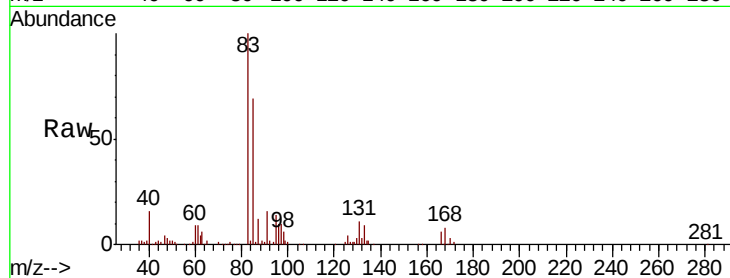
Tot Ion: 83 Resp: 103572

Ion Ratio Lower Upper

83 100

131 10.5 5.3 15.8

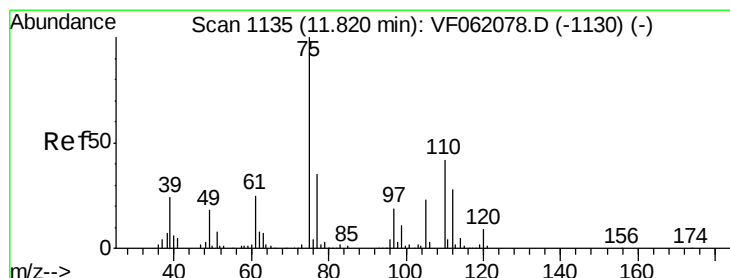
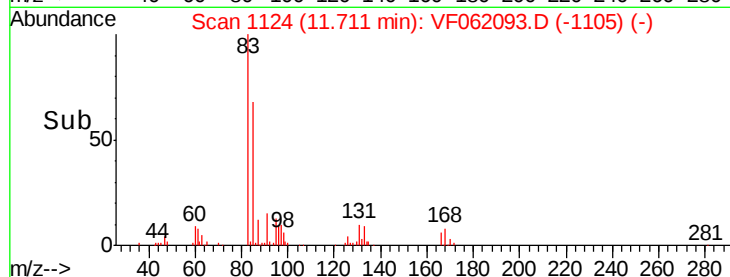
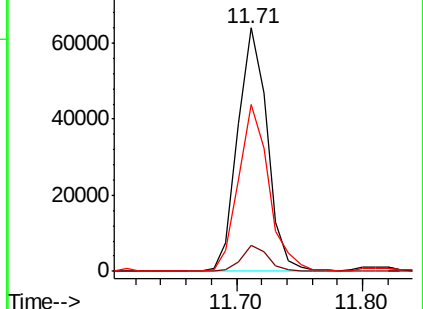
85 68.5 32.6 98.0



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



#76

1,2,3-Trichloropropane

Concen: 49.156 ug/l

RT: 11.81 min Scan# 1134

Delta R.T. -0.01 min

Lab File: VF062093.D

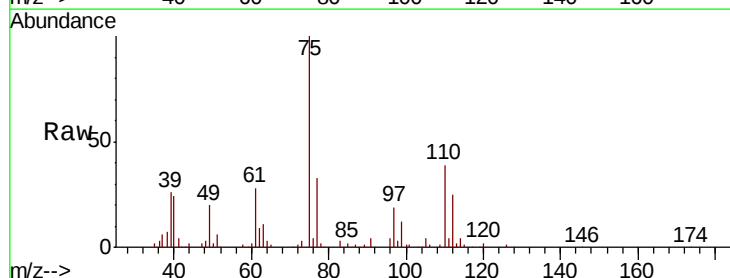
Acq: 22 Mar 2019 22:10

Tgt Ion: 75 Resp: 72396

Ion Ratio Lower Upper

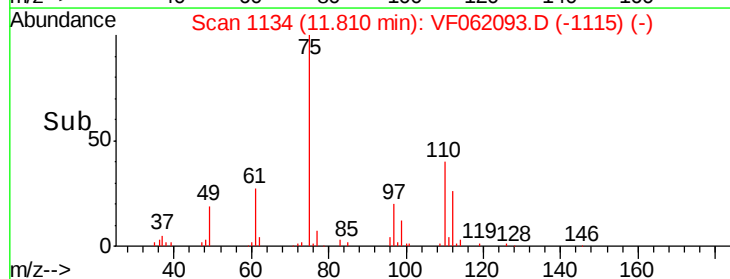
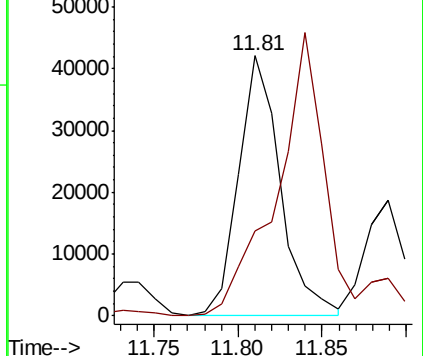
75 100

77 32.6 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: 51.034 ug/l

RT: 11.51 min Scan# 1104

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

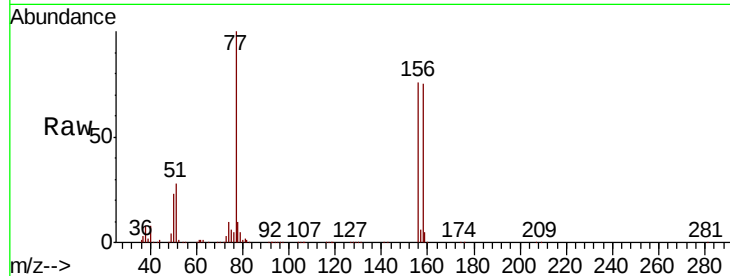
Tot Ion:156 Resp: 151965

Ion Ratio Lower Upper

156 100

77 131.6 61.3 183.9

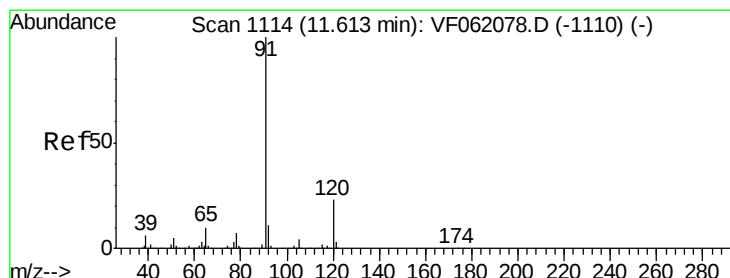
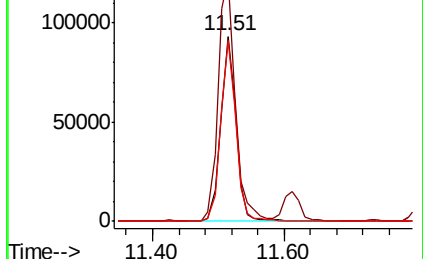
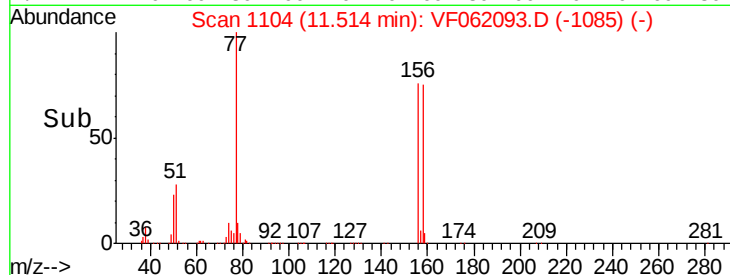
158 98.1 48.6 145.9



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: 50.439 ug/l

RT: 11.61 min Scan# 1114

Delta R.T. -0.00 min

Lab File: VF062093.D

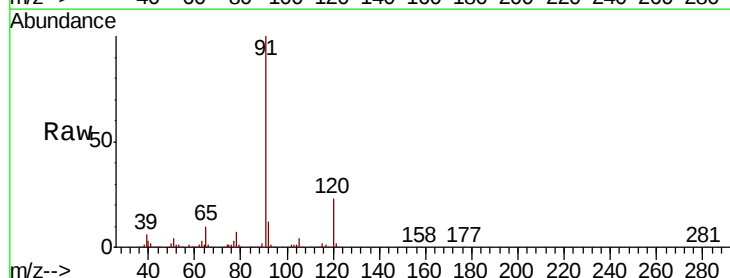
Acq: 22 Mar 2019 22:10

Tgt Ion: 91 Resp: 713839

Ion Ratio Lower Upper

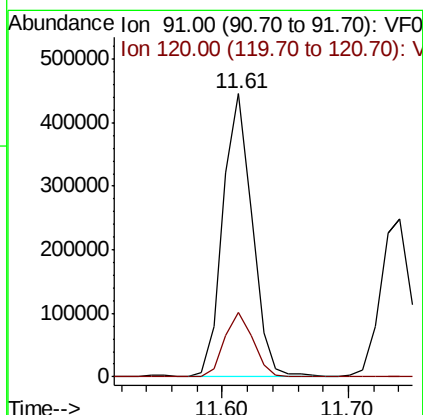
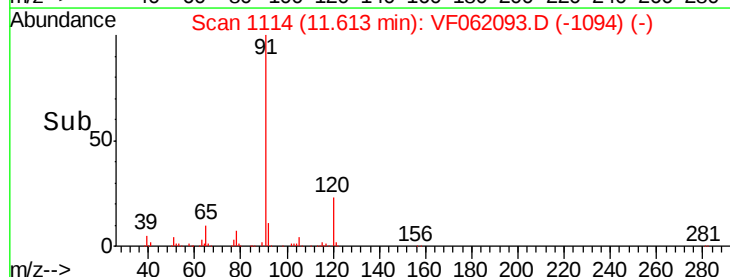
91 100

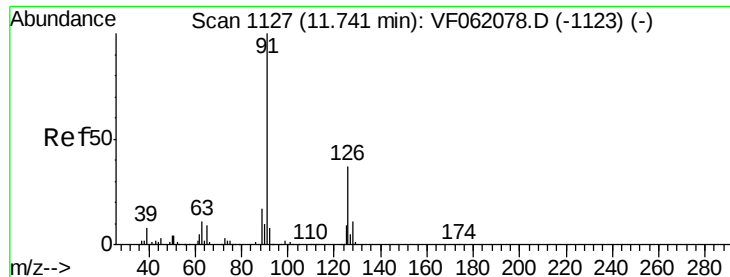
120 22.9 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 52.478 ug/l

RT: 11.74 min Scan# 1127

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

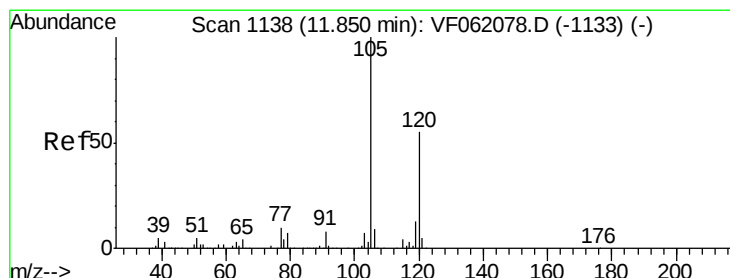
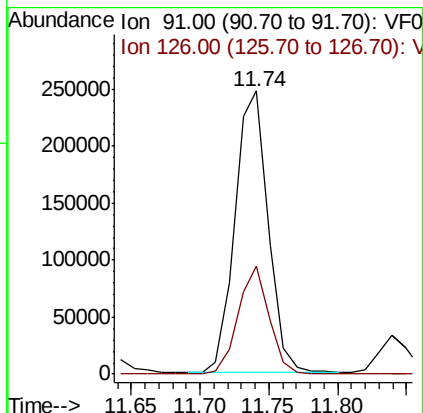
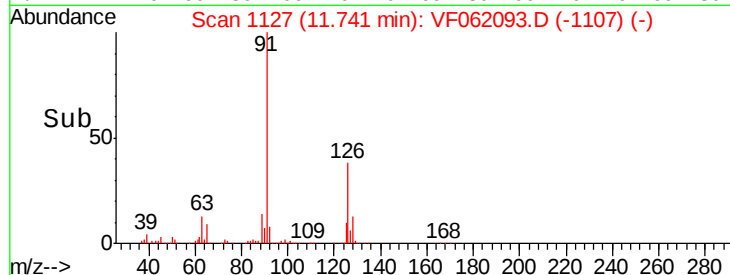
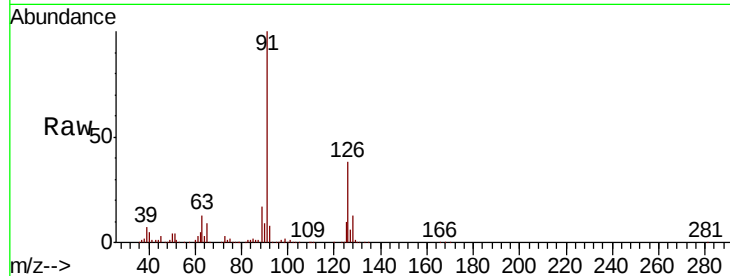
VSTDCCC050

Tot Ion: 91 Resp: 412811

Ion Ratio Lower Upper

91 100

126 38.0 18.3 54.8



#80

1,3,5-Trimethylbenzene

Concen: 51.542 ug/l

RT: 11.84 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VF062093.D

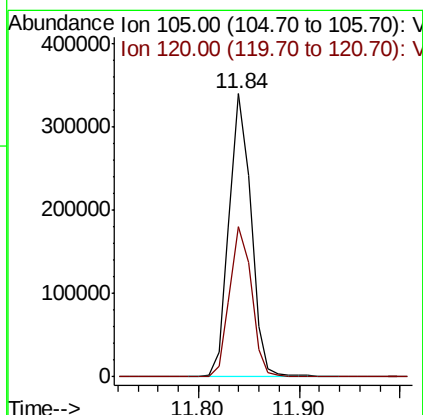
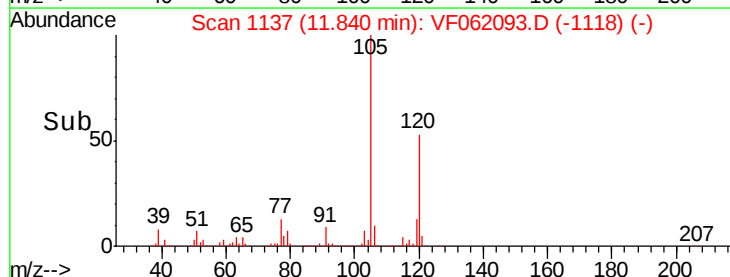
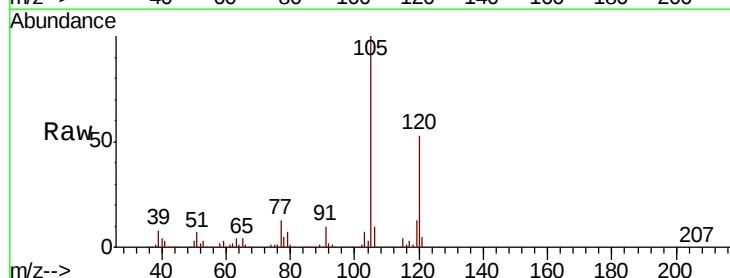
Acq: 22 Mar 2019 22:10

Tgt Ion:105 Resp: 516721

Ion Ratio Lower Upper

105 100

120 53.0 27.8 83.3





#81

trans-1,4-Dichloro-2-butene

Concen: 69.110 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

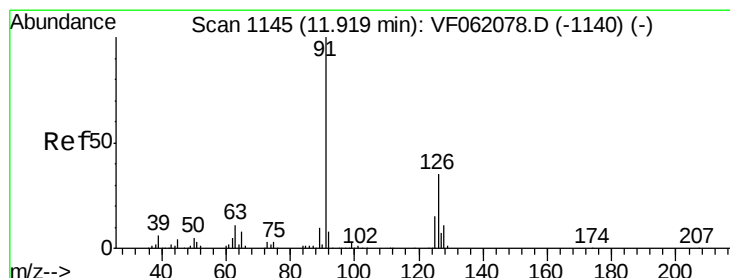
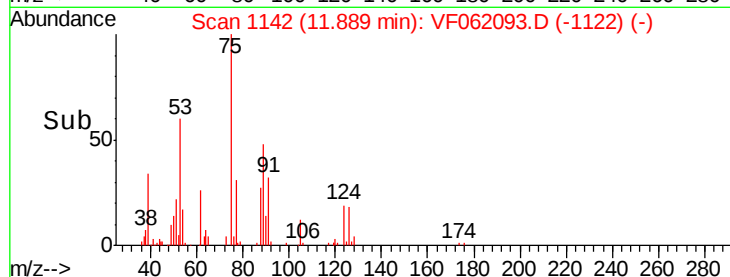
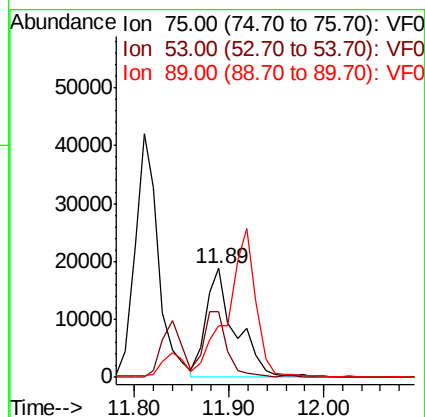
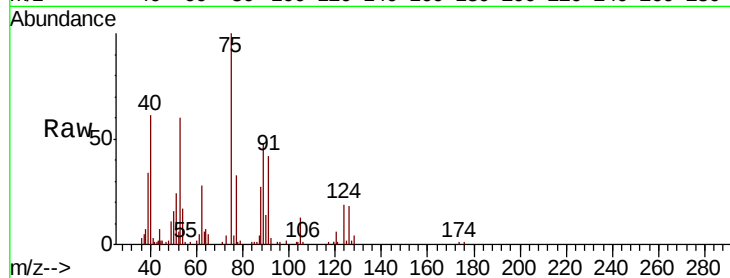
Tot Ion: 75 Resp: 41474

Ion Ratio Lower Upper

75 100

53 60.0 49.4 74.0

89 47.8 40.6 60.8



#82

4-Chlorotoluene

Concen: 51.089 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VF062093.D

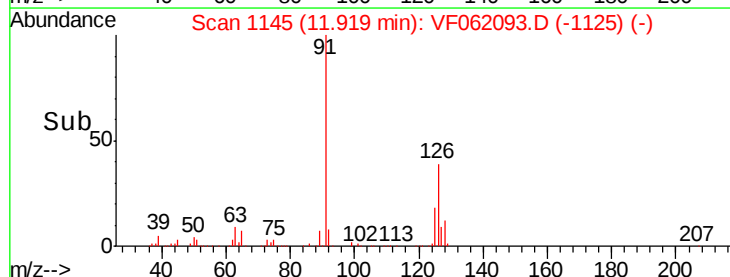
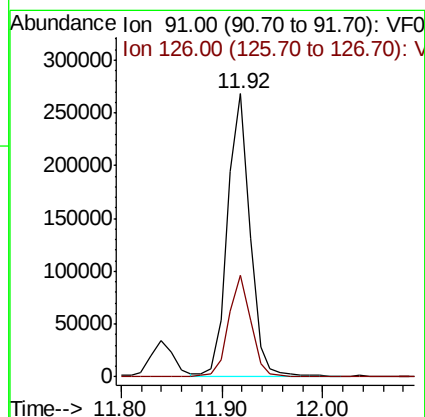
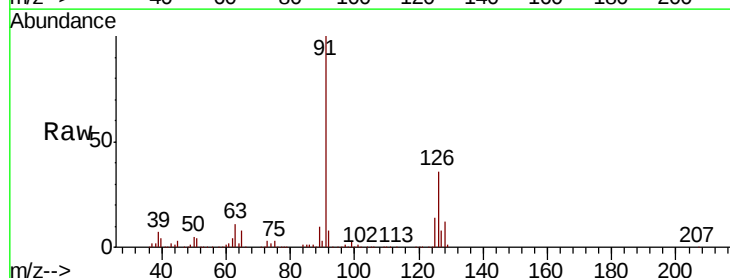
Acq: 22 Mar 2019 22:10

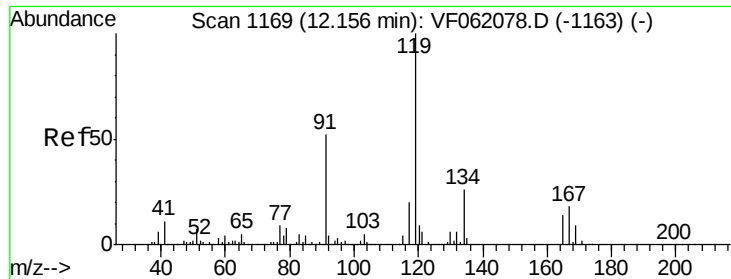
Tgt Ion: 91 Resp: 412062

Ion Ratio Lower Upper

91 100

126 35.9 17.2 51.6

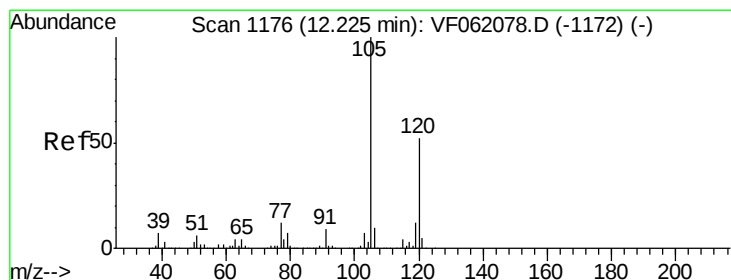
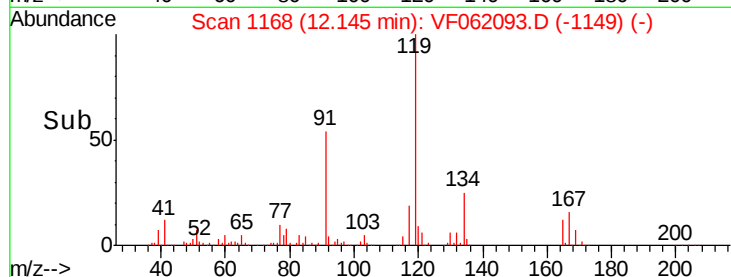
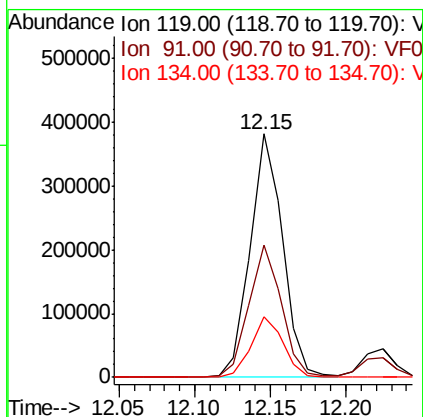
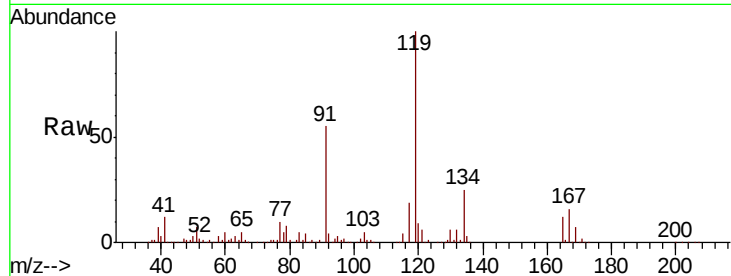




#83
 tert-Butylbenzene
 Concen: 54.752 ug/l
 RT: 12.15 min Scan# 1168
 Delta R.T. -0.01 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

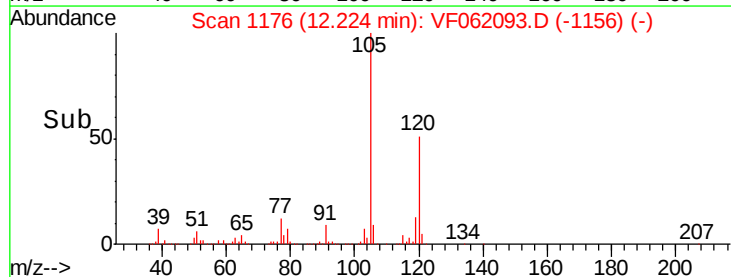
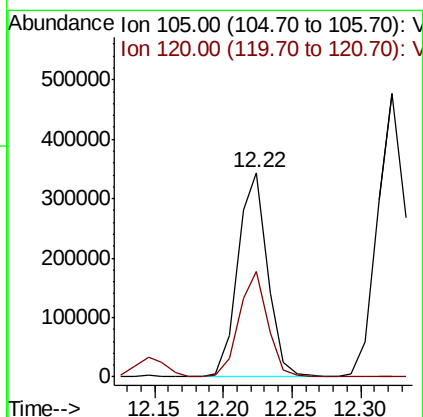
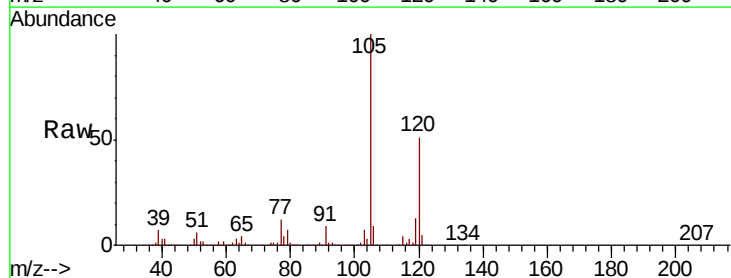
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

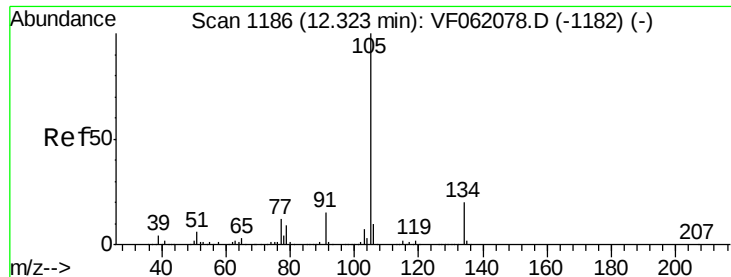
Tot Ion:119 Resp: 574599
 Ion Ratio Lower Upper
 119 100
 91 54.5 26.1 78.2
 134 24.7 12.8 38.4



#84
 1,2,4-Trimethylbenzene
 Concen: 52.599 ug/l
 RT: 12.22 min Scan# 1176
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion:105 Resp: 516938
 Ion Ratio Lower Upper
 105 100
 120 51.4 26.1 78.2





#85

sec-Butylbenzene

Concen: 51.194 ug/l

RT: 12.32 min Scan# 1186

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

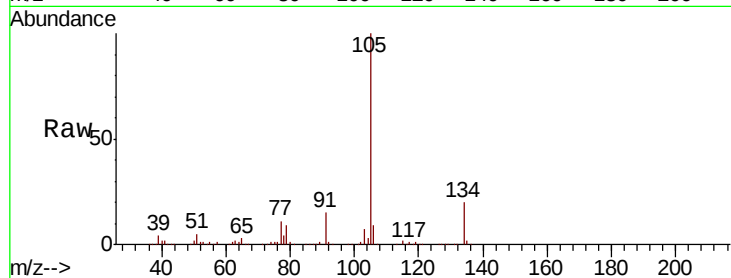
VSTDCCC050

Tot Ion:105 Resp: 695035

Ion Ratio Lower Upper

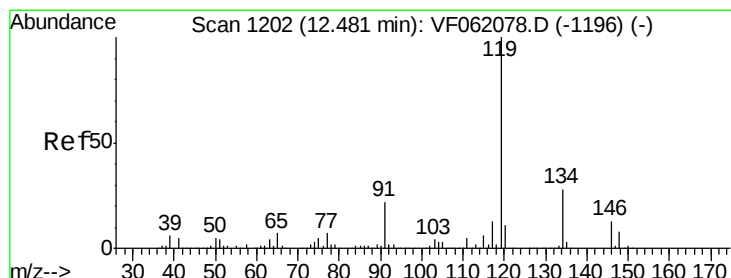
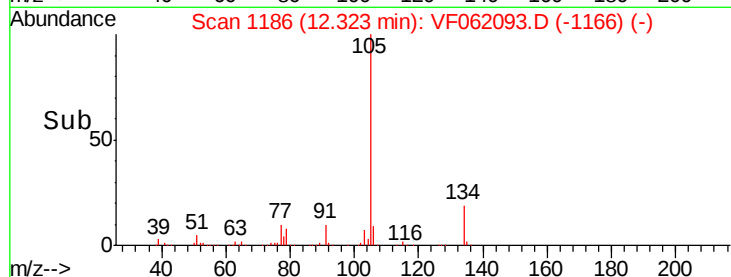
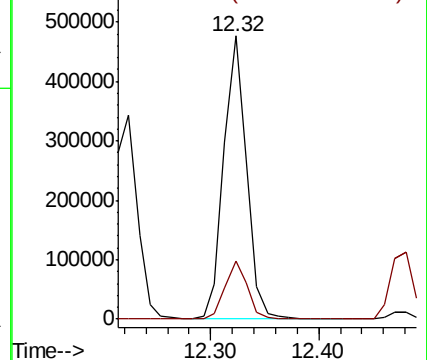
105 100

134 20.4 10.2 30.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 53.312 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

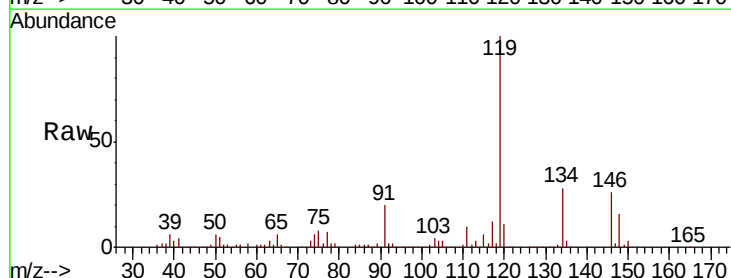
Tgt Ion:119 Resp: 627072

Ion Ratio Lower Upper

119 100

134 28.3 14.0 42.0

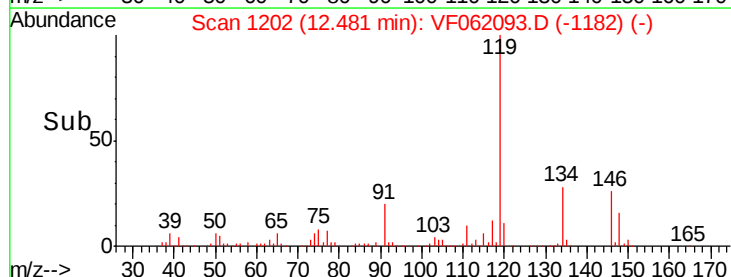
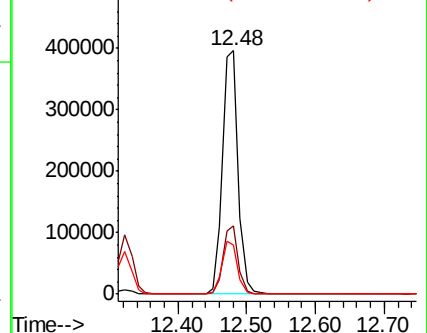
91 20.3 10.8 32.4

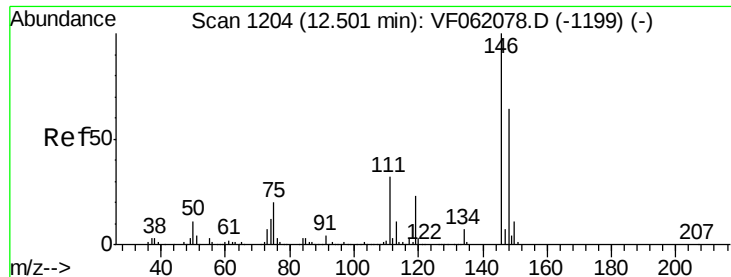


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 50.908 ug/l

RT: 12.49 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

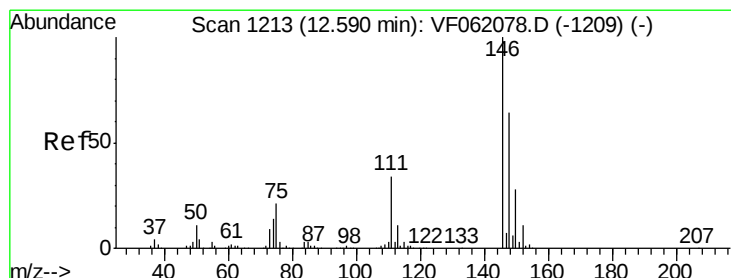
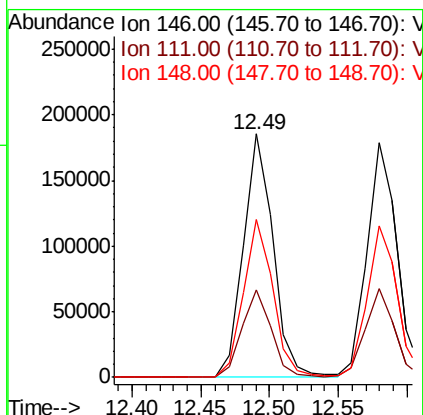
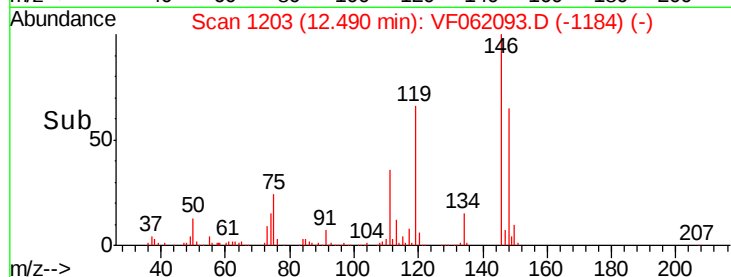
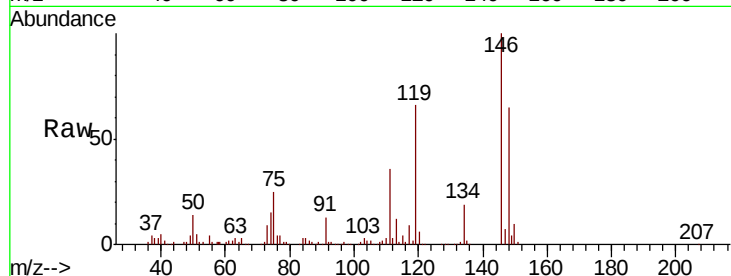
Tot Ion:146 Resp: 281635

Ion Ratio Lower Upper

146 100

111 35.9 16.1 48.3

148 64.9 31.9 95.7



#88

1,4-Dichlorobenzene

Concen: 50.629 ug/l

RT: 12.58 min Scan# 1212

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

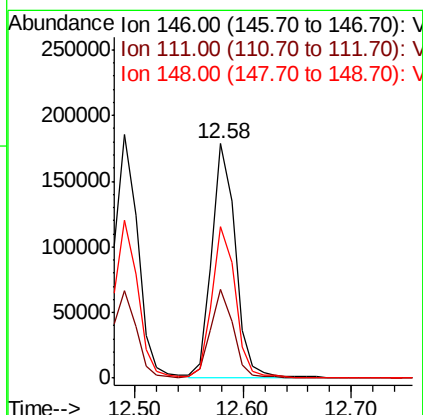
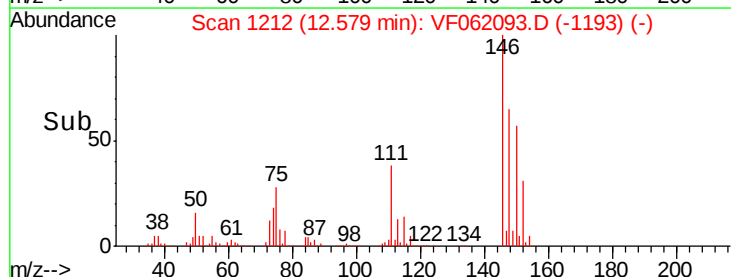
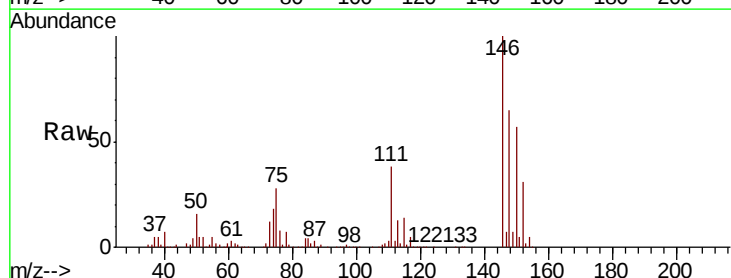
Tgt Ion:146 Resp: 273316

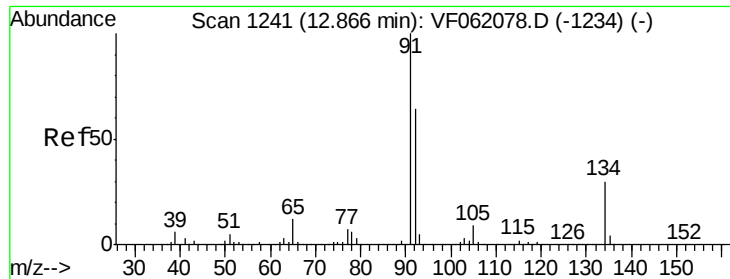
Ion Ratio Lower Upper

146 100

111 37.8 16.9 50.6

148 64.7 31.9 95.7

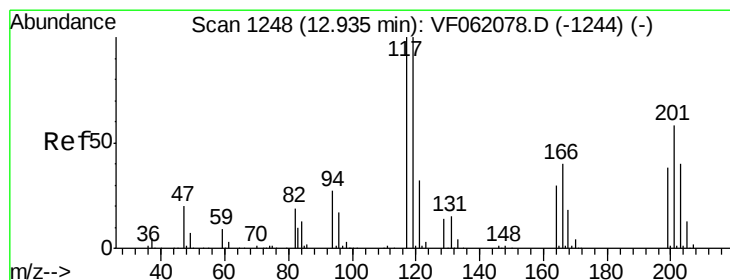
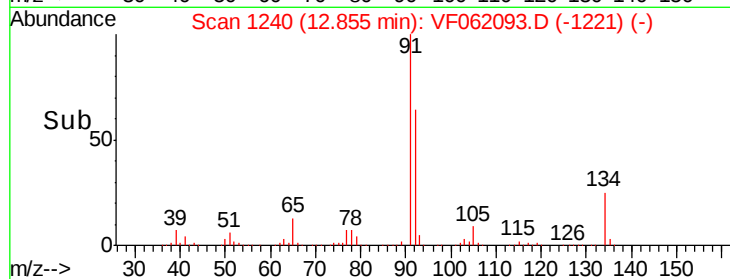
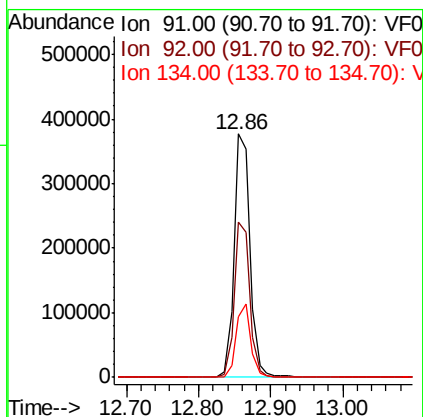
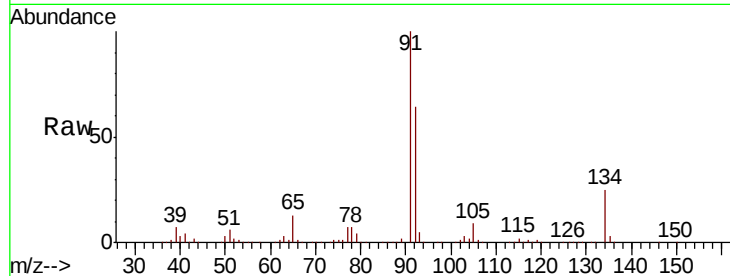




#89
n-Butylbenzene
Concen: 51.538 ug/l
RT: 12.86 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

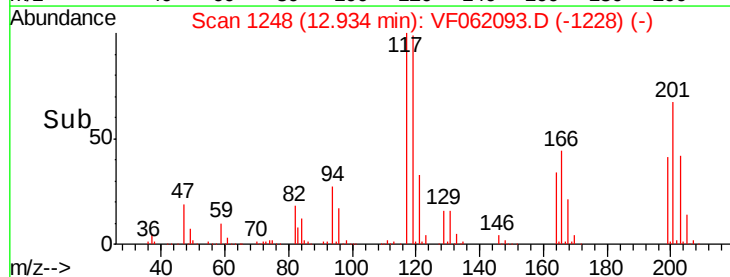
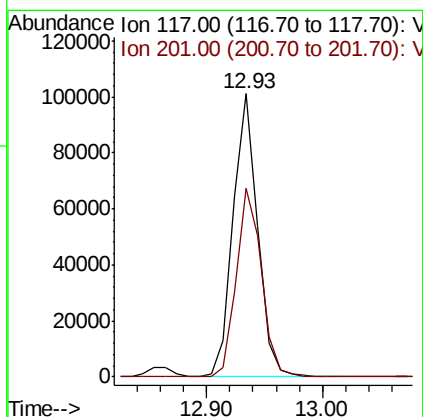
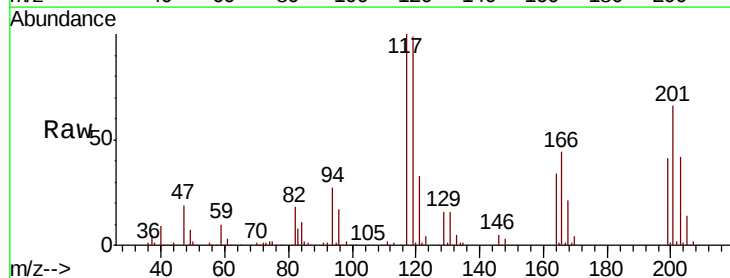
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

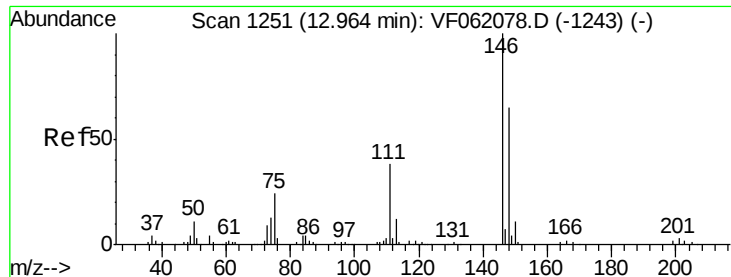
Tot Ion: 91 Resp: 578355
Ion Ratio Lower Upper
91 100
92 63.9 31.9 95.5
134 25.1 14.9 44.9



#90
Hexachloroethane
Concen: 52.825 ug/l
RT: 12.93 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion: 117 Resp: 147949
Ion Ratio Lower Upper
117 100
201 66.4 28.7 86.1





#91

1,2-Dichlorobenzene

Concen: 49.640 ug/l

RT: 12.96 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

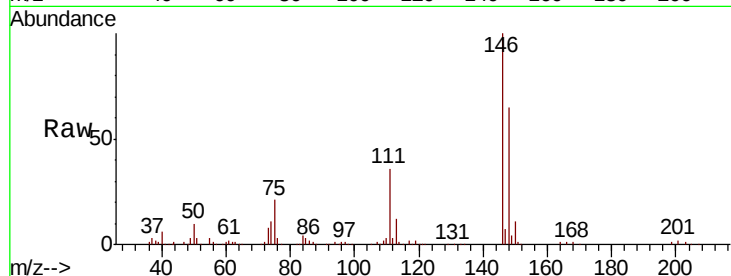
Tot Ion:146 Resp: 257869

Ion Ratio Lower Upper

146 100

111 35.9 19.1 57.3

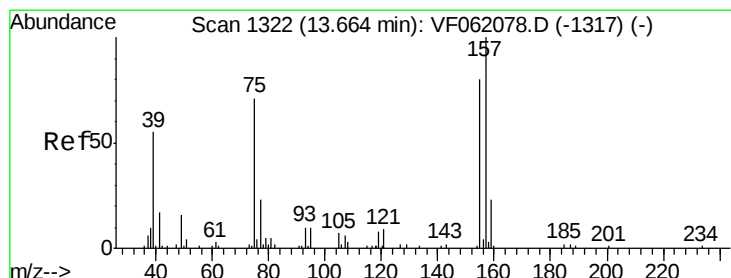
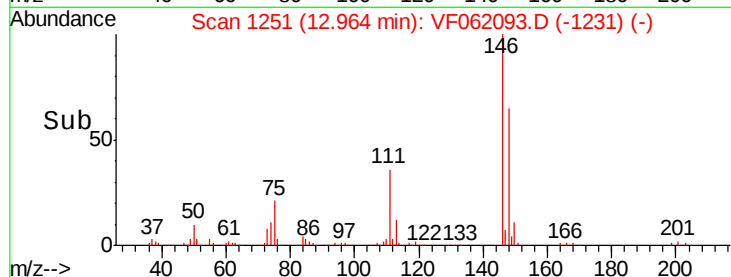
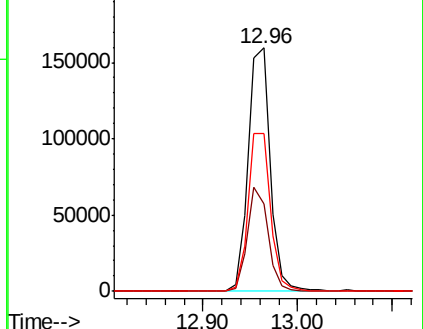
148 64.8 32.8 98.3



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: 51.636 ug/l

RT: 13.65 min Scan# 1321

Delta R.T. -0.01 min

Lab File: VF062093.D

Acq: 22 Mar 2019 22:10

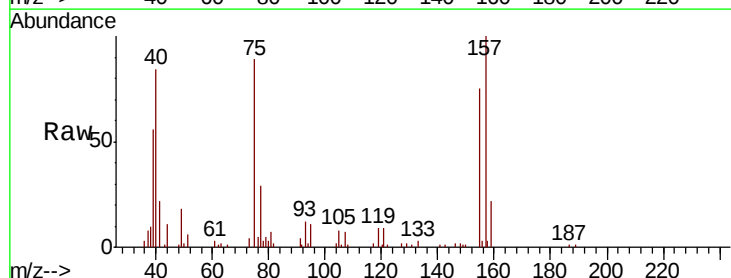
Tgt Ion: 75 Resp: 16373

Ion Ratio Lower Upper

75 100

155 84.7 56.1 168.4

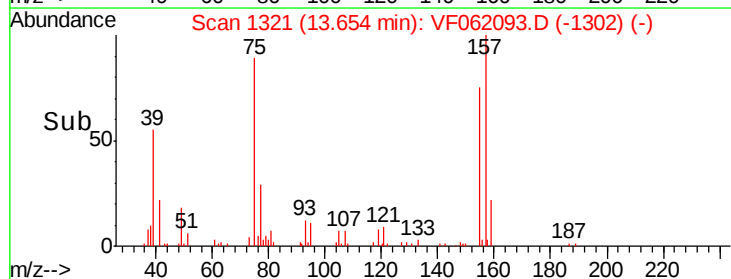
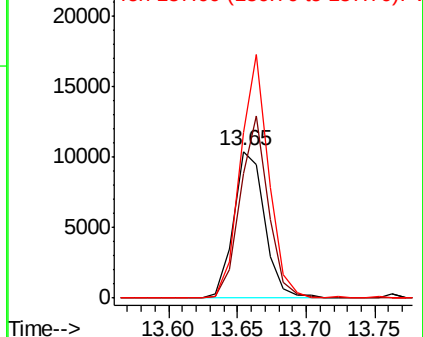
157 112.7 70.4 211.2

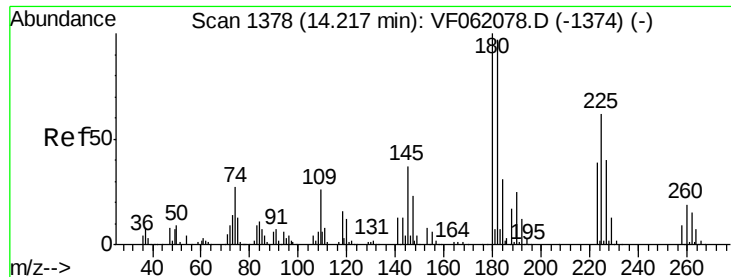


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

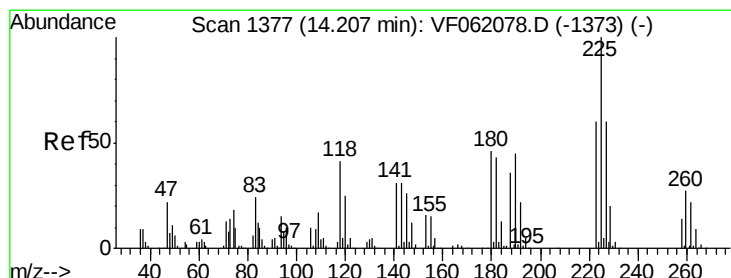
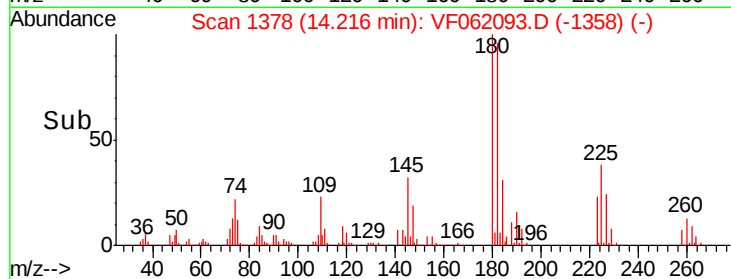
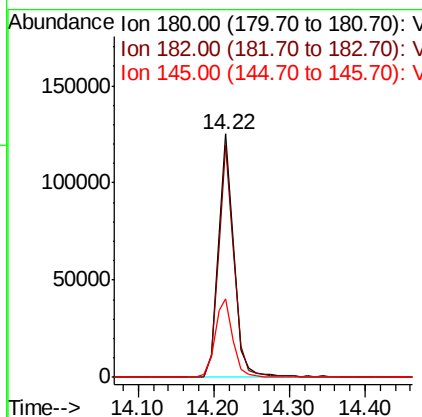
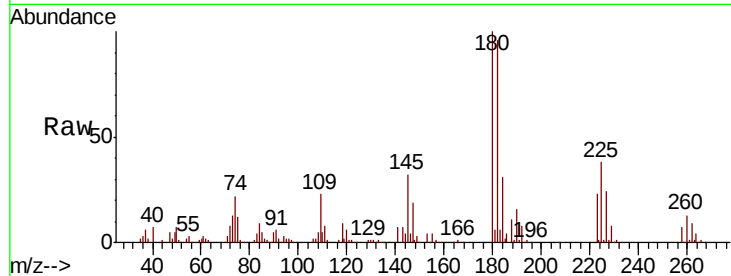




#93
 1,2,4-Trichlorobenzene
 Concen: 50.373 ug/l
 RT: 14.22 min Scan# 1378
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

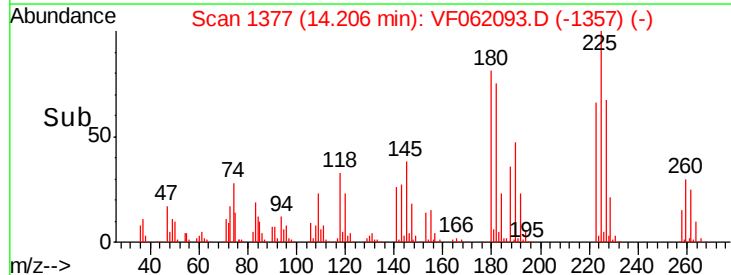
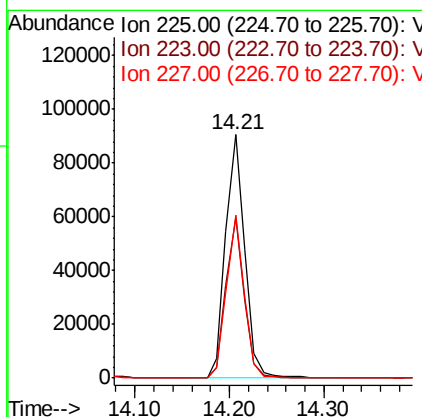
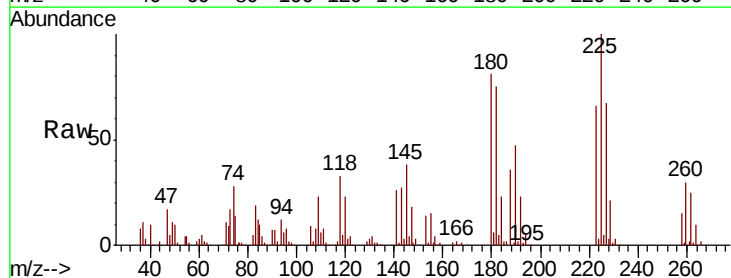
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

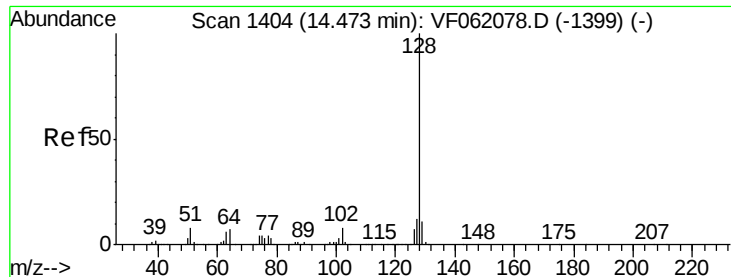
Tot Ion:180 Resp: 182373
 Ion Ratio Lower Upper
 180 100
 182 95.5 48.7 146.1
 145 32.1 18.3 54.8



#94
 Hexachlorobutadiene
 Concen: 52.946 ug/l
 RT: 14.21 min Scan# 1377
 Delta R.T. -0.00 min
 Lab File: VF062093.D
 Acq: 22 Mar 2019 22:10

Tgt Ion:225 Resp: 127456
 Ion Ratio Lower Upper
 225 100
 223 66.1 30.0 90.0
 227 66.9 30.2 90.6

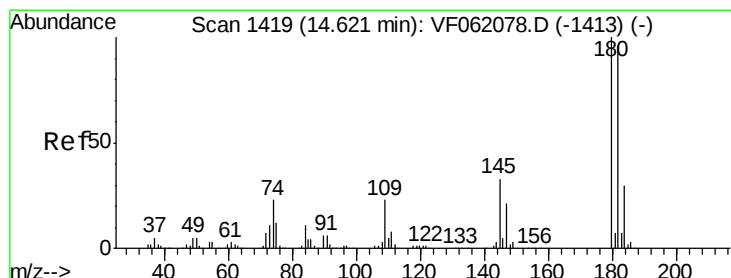
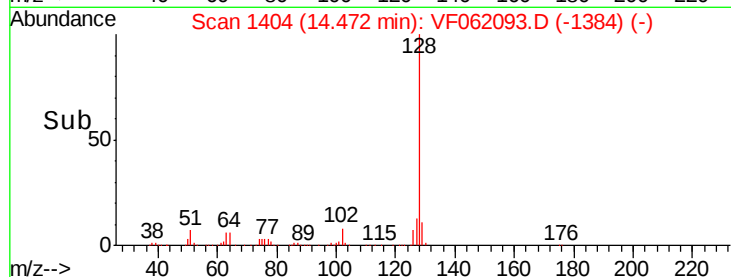
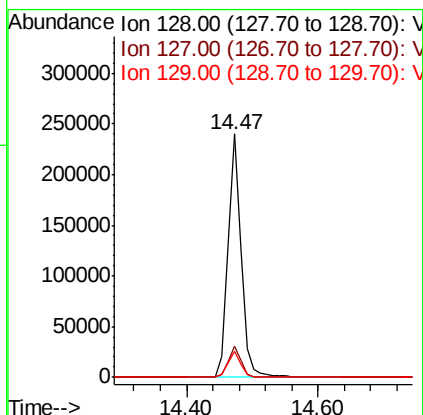
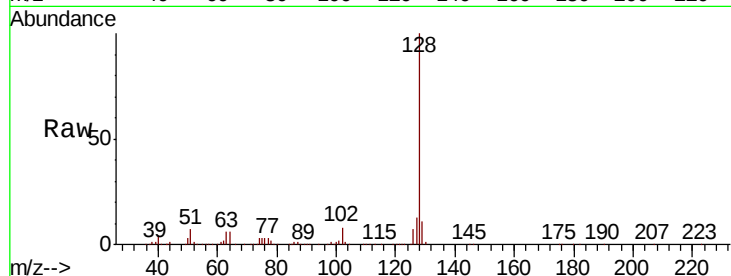




#95
Naphthalene
Concen: 53.482 ug/l
RT: 14.47 min Scan# 1404
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 339320
Ion Ratio Lower Upper
128 100
127 12.7 9.5 14.3
129 10.8 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 51.713 ug/l
RT: 14.62 min Scan# 1419
Delta R.T. -0.00 min
Lab File: VF062093.D
Acq: 22 Mar 2019 22:10

Tgt Ion:180 Resp: 175255
Ion Ratio Lower Upper
180 100
182 96.0 47.9 143.7
145 31.6 16.6 49.7

