

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011819\
 Data File : VF061452.D
 Acq On : 18 Jan 2019 11:24
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Quant Time: Jan 19 03:53:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	189097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.59	114	336532	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	310097	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	143854	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.83	65	116924	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
35) Dibromofluoromethane	4.10	113	128814	48.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.02%	
50) Toluene-d8	7.55	98	380098	52.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.48%	
62) 4-Bromofluorobenzene	11.40	95	168231	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.96	85	169937	45.738	ug/l	90
3) Chloromethane	1.08	50	129527	47.544	ug/l	96
4) Vinyl Chloride	1.13	62	119958	49.499	ug/l	90
5) Bromomethane	1.33	94	80607	51.007	ug/l	94
6) Chloroethane	1.38	64	53781	50.083	ug/l	92
7) Trichlorofluoromethane	1.47	101	204549	43.417	ug/l	96
8) Diethyl Ether	1.63	74	29159	48.303	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.82	101	106842	47.197	ug/l	91
10) Methyl Iodide	1.89	142	131082	37.351	ug/l	97
11) Tert butyl alcohol	2.56	59	24599	248.924	ug/l #	92
12) 1,1-Dichloroethene	1.79	96	83511	49.655	ug/l	87
13) Acrolein	1.99	56	31904	369.655	ug/l	91
14) Allyl chloride	2.09	41	130845	69.211	ug/l	90
15) Acrylonitrile	2.93	53	66508	262.742	ug/l	96
16) Acetone	2.23	43	139924	298.755	ug/l	99
17) Carbon Disulfide	1.81	76	253620	48.363	ug/l	99
18) Methyl Acetate	2.34	43	50683	54.567	ug/l	97
19) Methyl tert-butyl Ether	2.43	73	180278	47.817	ug/l	96
20) Methylene Chloride	2.18	84	30489	18.054	ug/l	94
21) trans-1,2-Dichloroethene	2.31	96	88496	47.825	ug/l	94
22) Diisopropyl ether	2.79	45	278966	46.611	ug/l	100
23) Vinyl Acetate	3.18	43	683758	259.612	ug/l	100
24) 1,1-Dichloroethane	2.86	63	170444	45.375	ug/l	98
25) 2-Butanone	4.32	43	205167	263.420	ug/l	94
26) 2,2-Dichloropropane	3.59	77	105614	45.762	ug/l	94
27) cis-1,2-Dichloroethene	3.46	96	131968	48.314	ug/l	95
28) Bromochloromethane	3.71	49	79738	47.224	ug/l #	96
29) Tetrahydrofuran	4.06	42	84784	252.807	ug/l	99
30) Chloroform	3.85	83	225714	44.524	ug/l	99
31) Cyclohexane	3.68	56	111677	29.763	ug/l	97
32) 1,1,1-Trichloroethane	4.08	97	177727	47.813	ug/l	98
36) 1,1-Dichloropropene	4.27	75	177087	45.385	ug/l	96
37) Ethyl Acetate	4.09	43	75353	48.312	ug/l #	89
38) Carbon Tetrachloride	3.97	117	158525	46.472	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	203286	48.074	ug/l	100
40) Benzene	4.63	78	397336	45.763	ug/l	98
41) Methacrylonitrile	4.72	41	40006	48.204	ug/l #	92
42) 1,2-Dichloroethane	4.93	62	141705	45.801	ug/l	98
43) Isopropyl Acetate	6.94	43	100886	51.536	ug/l #	98
44) Trichloroethene	5.49	130	127377	47.824	ug/l	100
45) 1,2-Dichloropropane	6.22	63	111720	49.027	ug/l	96
46) Dibromomethane	6.08	93	73359	48.415	ug/l	97
47) Bromodichloromethane	6.37	83	178316	47.564	ug/l	100
48) Methyl methacrylate	6.71	41	62648	47.659	ug/l	96
49) 1,4-Dioxane	6.69	88	9019	981.636	ug/l #	78
51) 4-Methyl-2-Pentanone	8.25	43	356663	247.834	ug/l	98
52) Toluene	7.61	92	250550	43.820	ug/l	100
53) t-1,3-Dichloropropene	8.27	75	139748	46.944	ug/l	94
54) cis-1,3-Dichloropropene	7.29	75	188953	50.780	ug/l	97
55) 1,1,2-Trichloroethane	8.48	97	82263	50.665	ug/l	96
56) Ethyl methacrylate	8.61	69	95008	50.295	ug/l	97
57) 1,3-Dichloropropane	8.84	76	146354	48.090	ug/l	98
58) 2-Chloroethyl Vinyl ether	7.28	63	48833	246.906	ug/l	99
59) 2-Hexanone	9.48	43	278564	277.585	ug/l	96
60) Dibromochloromethane	8.71	129	114191	48.107	ug/l	96
61) 1,2-Dibromoethane	8.98	107	85316	45.900	ug/l	87
64) Tetrachloroethene	8.14	164	106394	45.624	ug/l	97
65) Chlorobenzene	9.79	112	298300	47.304	ug/l	97
66) 1,1,1,2-Tetrachloroethane	9.92	131	117536	46.788	ug/l	96
67) Ethyl Benzene	9.88	91	551279	47.848	ug/l	99
68) m/p-Xylenes	10.12	106	375511	90.618	ug/l	100
69) o-Xylene	10.70	106	209377	46.619	ug/l	95
70) Styrene	10.78	104	285051	46.367	ug/l	97
71) Bromoform	10.76	173	58382	51.725	ug/l #	95
73) Isopropylbenzene	11.12	105	619060	52.911	ug/l	98
74) N-amyl acetate	11.36	43	155950	56.369	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.69	83	111777	53.628	ug/l	96
76) 1,2,3-Trichloropropane	11.79	75	75850	50.645	ug/l	92
77) Bromobenzene	11.49	156	129017	52.214	ug/l	99
78) n-propylbenzene	11.59	91	706771	49.542	ug/l	98
79) 2-Chlorotoluene	11.71	91	409071	50.392	ug/l	98
80) 1,3,5-Trimethylbenzene	11.82	105	471376	49.923	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	46656	71.662	ug/l	95
82) 4-Chlorotoluene	11.90	91	421183	51.416	ug/l	97
83) tert-Butylbenzene	12.12	119	507919	51.973	ug/l	96
84) 1,2,4-Trimethylbenzene	12.20	105	472880	48.621	ug/l	99
85) sec-Butylbenzene	12.30	105	671773	50.618	ug/l	98
86) p-Isopropyltoluene	12.45	119	545825	50.101	ug/l	94
87) 1,3-Dichlorobenzene	12.47	146	237972	48.265	ug/l	99
88) 1,4-Dichlorobenzene	12.56	146	231433	49.566	ug/l	97
89) n-Butylbenzene	12.83	91	583508	51.934	ug/l	97
90) Hexachloroethane	12.91	117	134910	52.533	ug/l	95
91) 1,2-Dichlorobenzene	12.93	146	228952	49.532	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	13.63	75	20767	56.174	ug/l	67

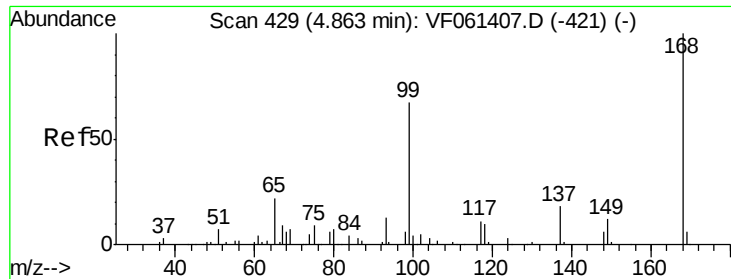
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	156074	48.200	ug/l	99
94) Hexachlorobutadiene	14.18	225	100513	50.025	ug/l	99
95) Naphthalene	14.45	128	309197	50.260	ug/l	98
96) 1,2,3-Trichlorobenzene	14.60	180	145028	48.384	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

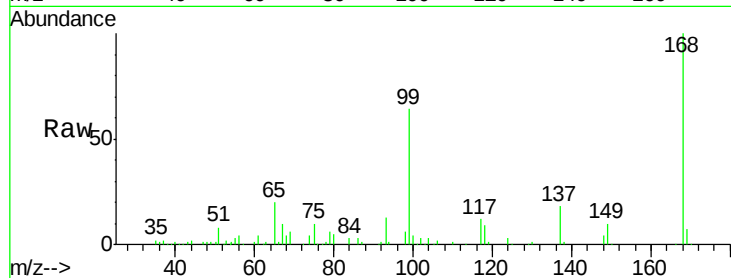
VSTDCCC050

Tot Ion:168 Resp: 189097

Ion Ratio Lower Upper

168 100

99 64.0 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

60000

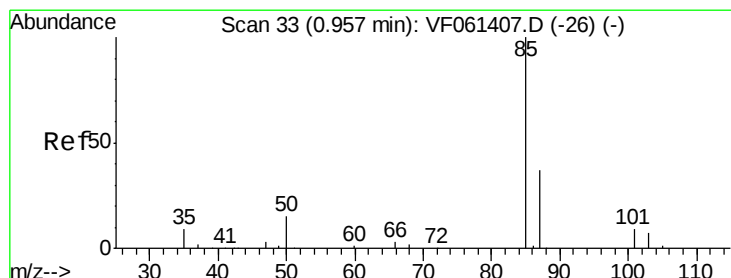
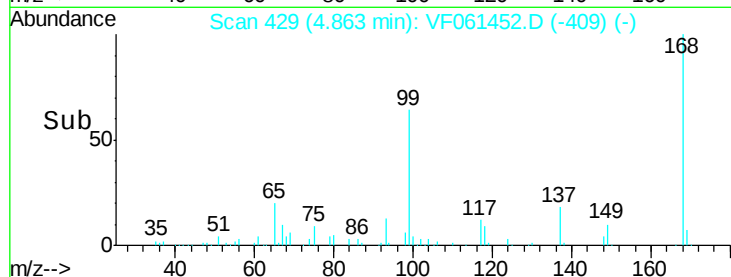
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: 45.738 ug/l

RT: 0.96 min Scan# 33

Delta R.T. -0.00 min

Lab File: VF061452.D

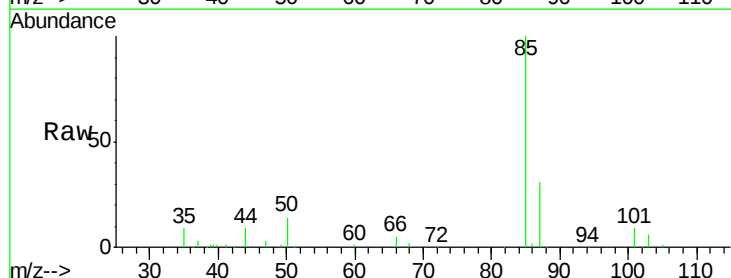
Acq: 18 Jan 2019 11:24

Tgt Ion: 85 Resp: 169937

Ion Ratio Lower Upper

85 100

87 30.9 18.4 55.0



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

60000

50000

40000

30000

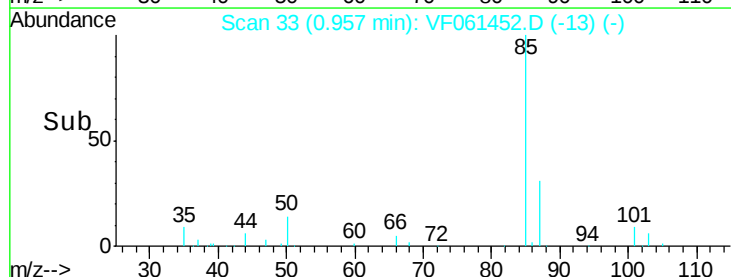
20000

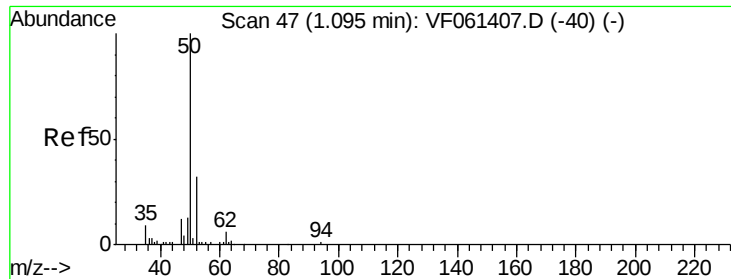
10000

0

0.80 0.90 1.00 1.10

Time-->





#3

Chloromethane

Concen: 47.544 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

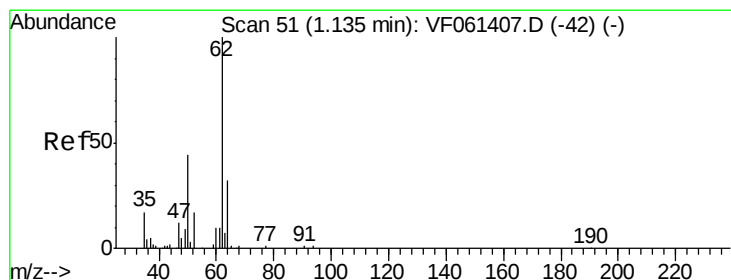
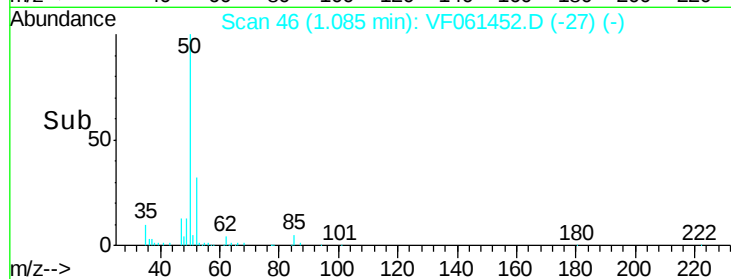
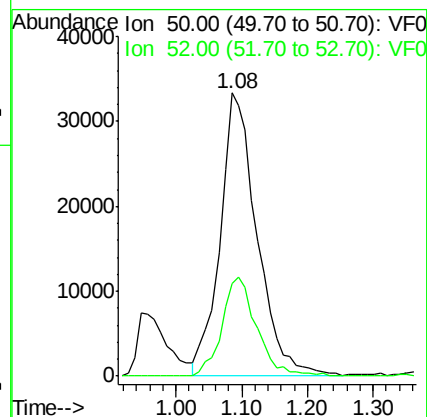
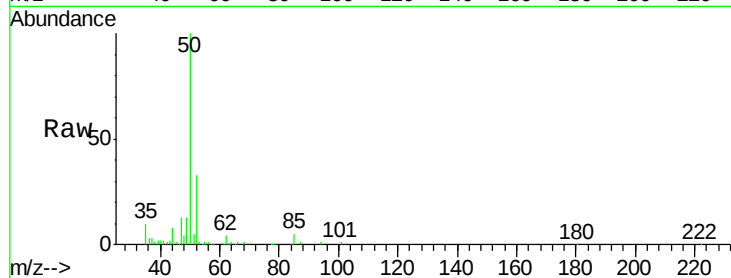
VSTDCCC050

Tot Ion: 50 Resp: 129527

Ion Ratio Lower Upper

50 100

52 32.9 24.6 36.8



#4

Vinyl Chloride

Concen: 49.499 ug/l

RT: 1.13 min Scan# 51

Delta R.T. -0.00 min

Lab File: VF061452.D

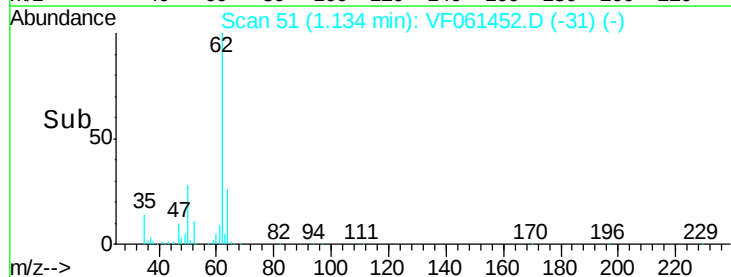
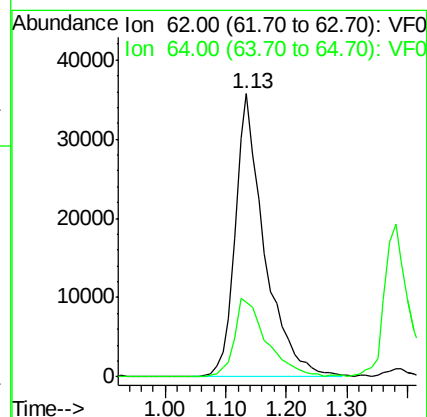
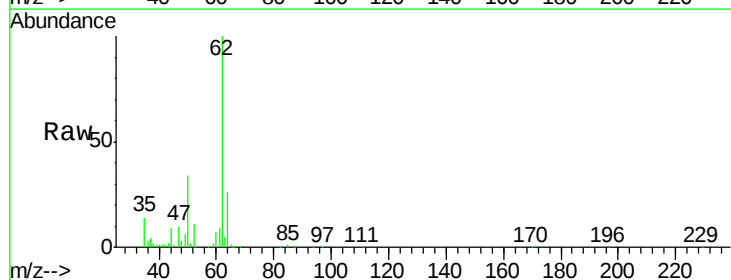
Acq: 18 Jan 2019 11:24

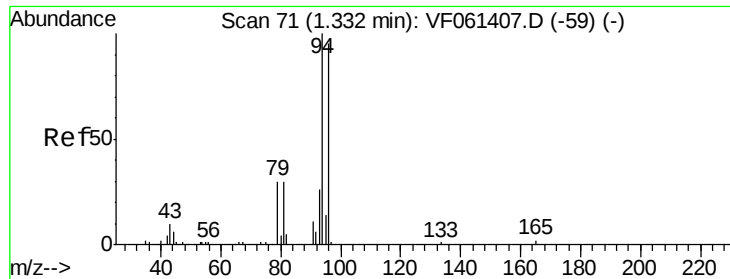
Tgt Ion: 62 Resp: 119958

Ion Ratio Lower Upper

62 100

64 26.2 25.6 38.4





#5

Bromomethane

Concen: 51.007 ug/l

RT: 1.33 min Scan# 71

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

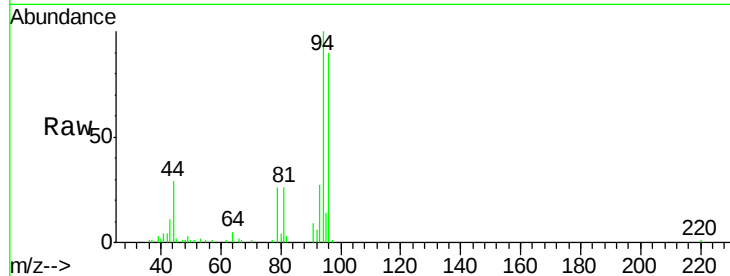
VSTDCCC050

Tot Ion: 94 Resp: 80607

Ion Ratio Lower Upper

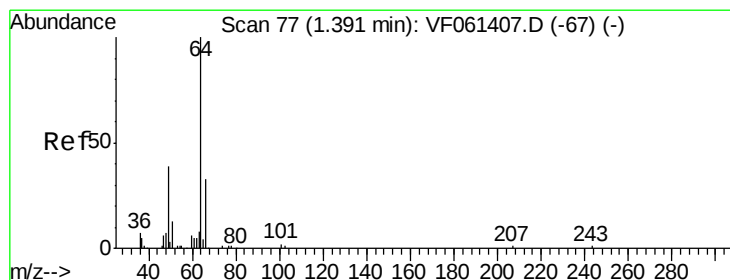
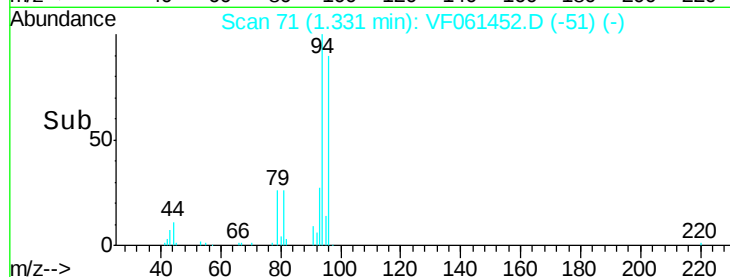
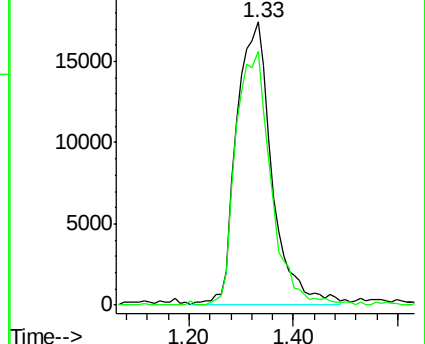
94 100

96 89.7 76.0 114.0



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 50.083 ug/l

RT: 1.38 min Scan# 76

Delta R.T. -0.01 min

Lab File: VF061452.D

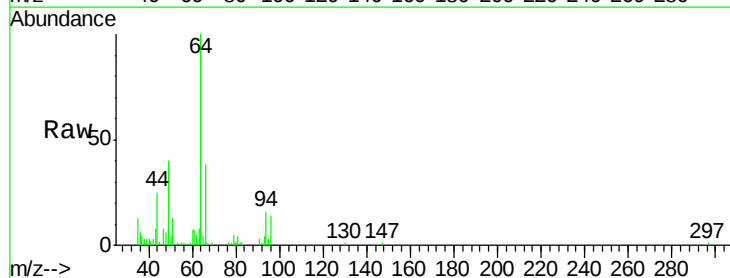
Acq: 18 Jan 2019 11:24

Tgt Ion: 64 Resp: 53781

Ion Ratio Lower Upper

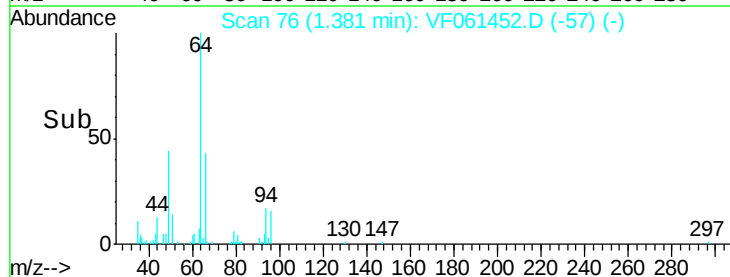
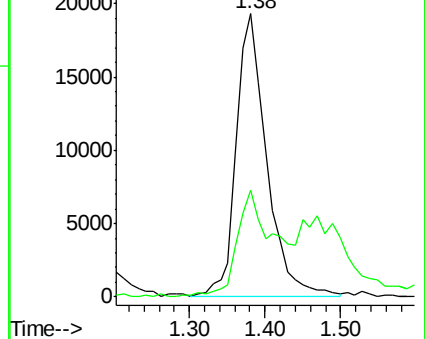
64 100

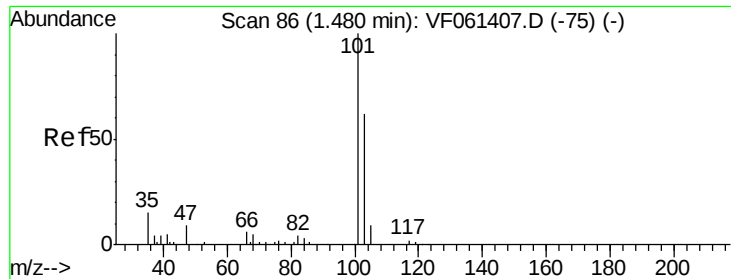
66 37.7 26.6 40.0



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



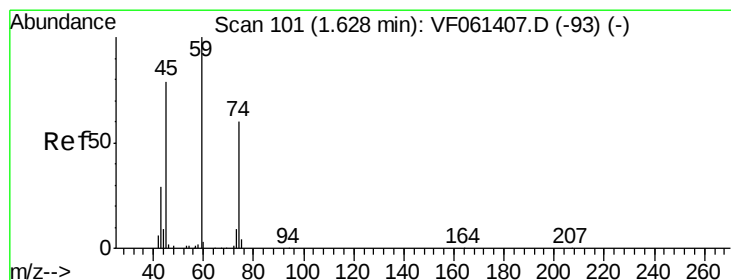
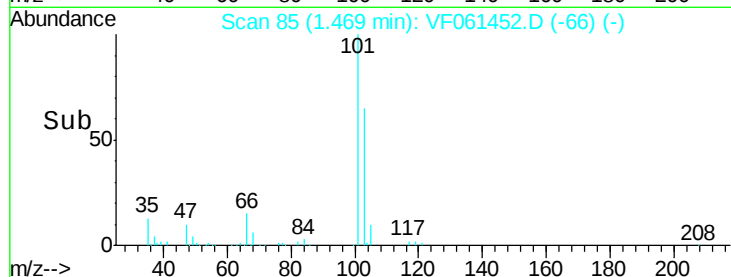
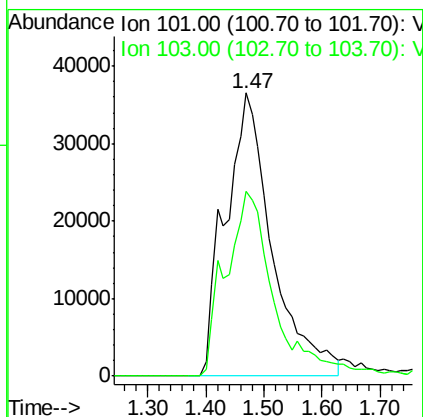
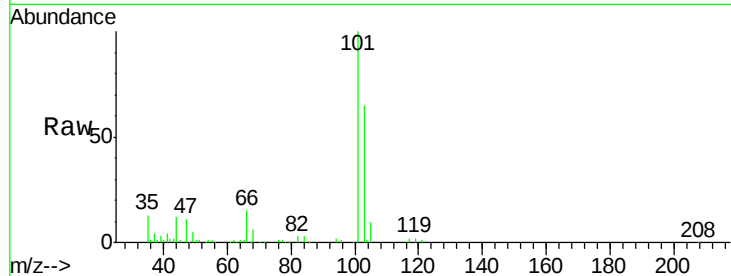


#7

Trichlorofluoromethane
 Concen: 43.417 ug/l
 RT: 1.47 min Scan# 85
 Delta R.T. -0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

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 ClientSampleId :
 VSTDCCC050

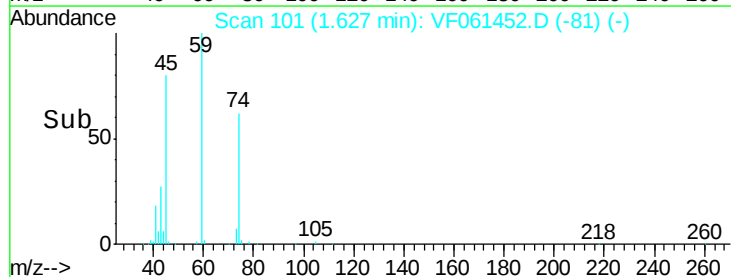
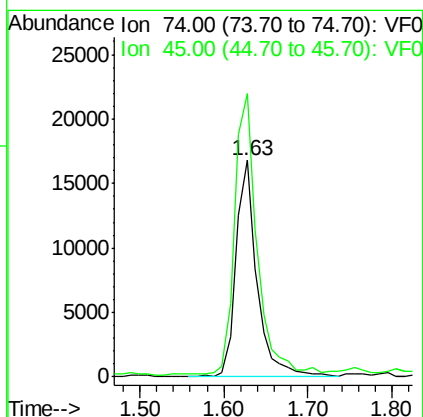
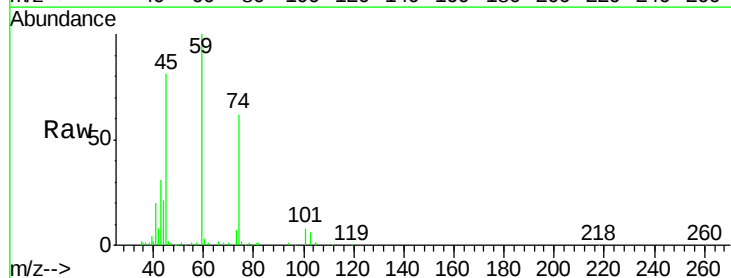
Tot Ion:101 Resp: 204549
 Ion Ratio Lower Upper
 101 100
 103 65.1 49.7 74.5



#8

Diethyl Ether
 Concen: 48.303 ug/l
 RT: 1.63 min Scan# 101
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion: 74 Resp: 29159
 Ion Ratio Lower Upper
 74 100
 45 130.6 65.8 197.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.197 ug/l

RT: 1.82 min Scan# 121

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

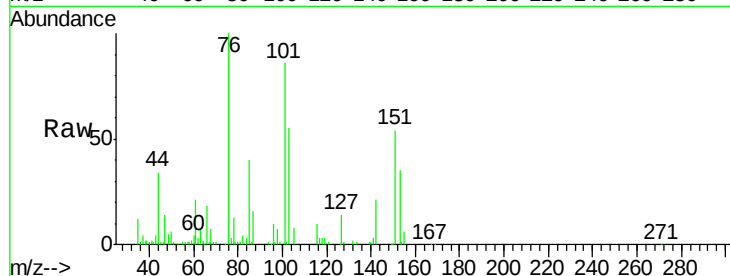
Tot Ion:101 Resp: 106842

Ion Ratio Lower Upper

101 100

85 45.7 41.9 62.9

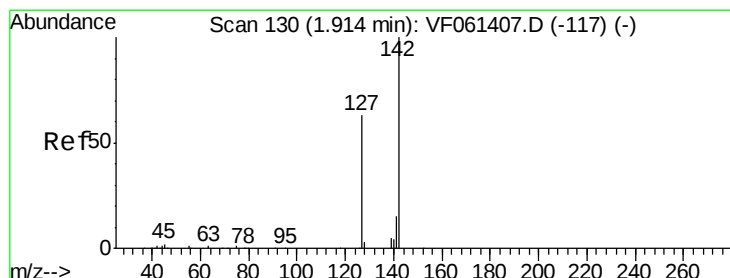
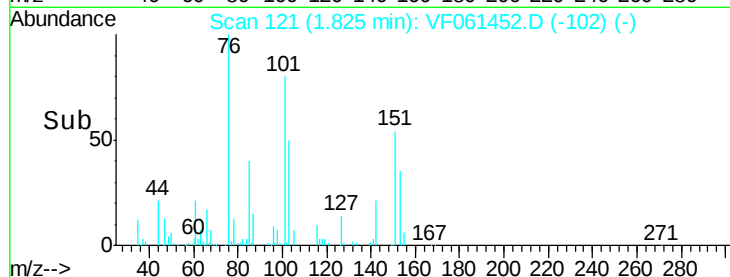
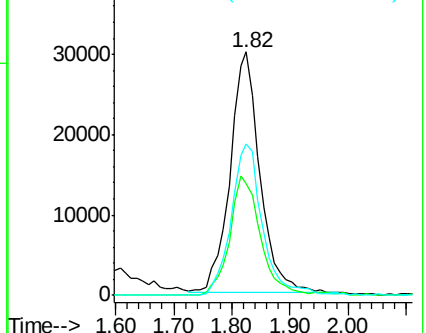
151 62.3 55.1 82.7



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: 37.351 ug/l

RT: 1.89 min Scan# 128

Delta R.T. -0.02 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

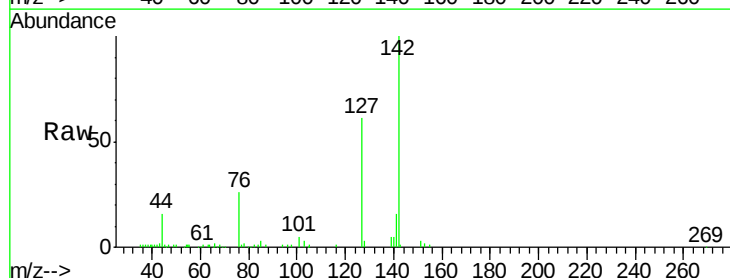
Tgt Ion:142 Resp: 131082

Ion Ratio Lower Upper

142 100

127 60.6 50.7 76.1

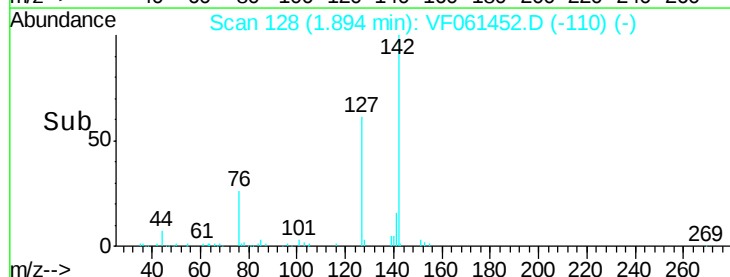
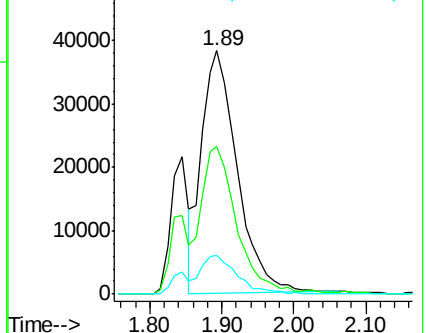
141 15.9 11.8 17.6

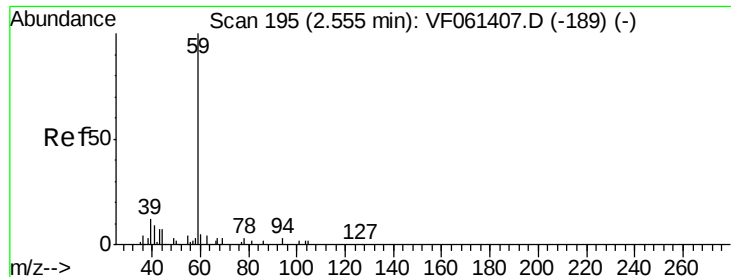


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

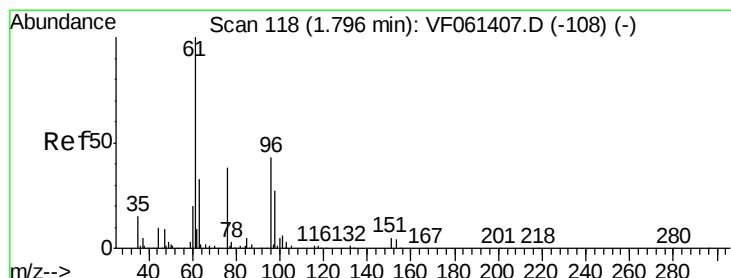
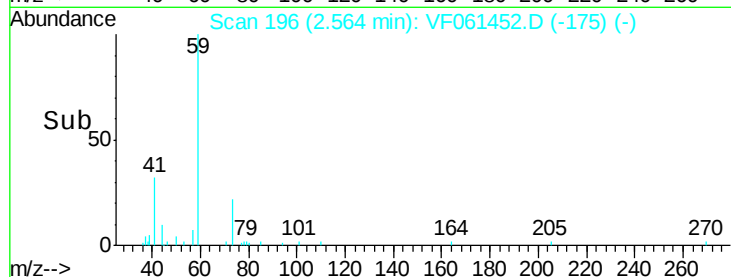
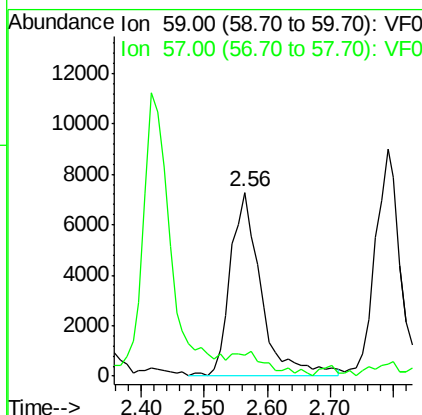
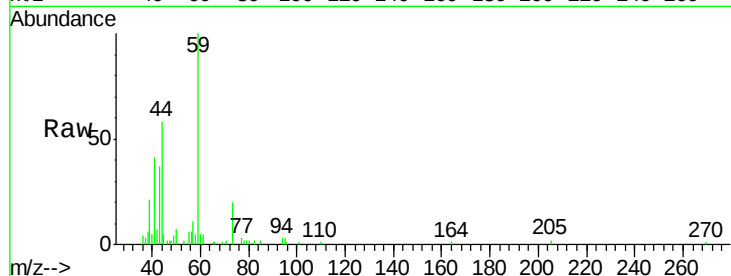




#11
Tert butyl alcohol
Concen: 248.924 ug/l
RT: 2.56 min Scan# 196
Delta R.T. 0.01 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

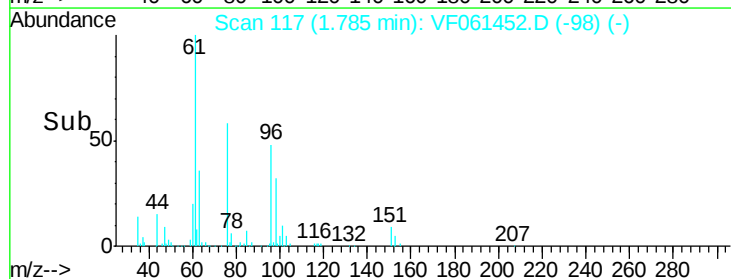
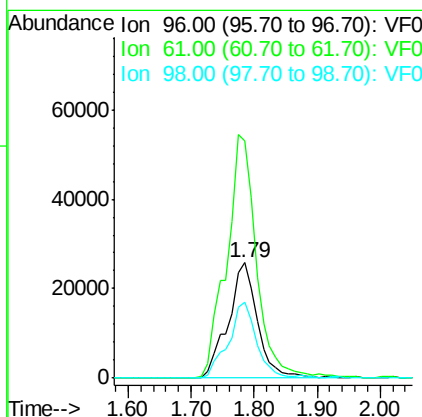
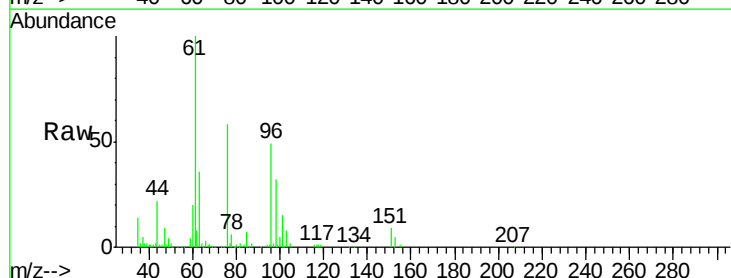
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

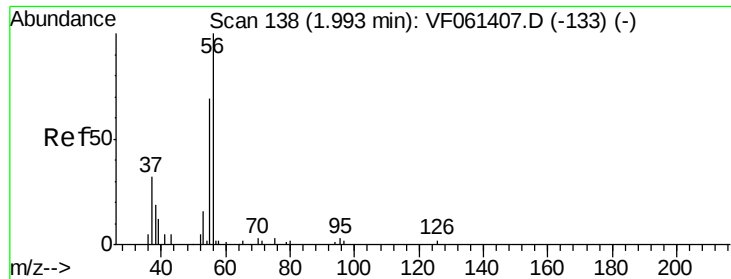
Tot Ion: 59 Resp: 24599
Ion Ratio Lower Upper
59 100
57 11.5 11.9 17.9#



#12
1,1-Dichloroethene
Concen: 49.655 ug/l
RT: 1.79 min Scan# 117
Delta R.T. -0.01 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion: 96 Resp: 83511
Ion Ratio Lower Upper
96 100
61 206.2 186.9 280.3
98 65.8 53.0 79.4





#13

Acrolein

Concen: 369.655 ug/l

RT: 1.99 min Scan# 138

Delta R.T. 0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

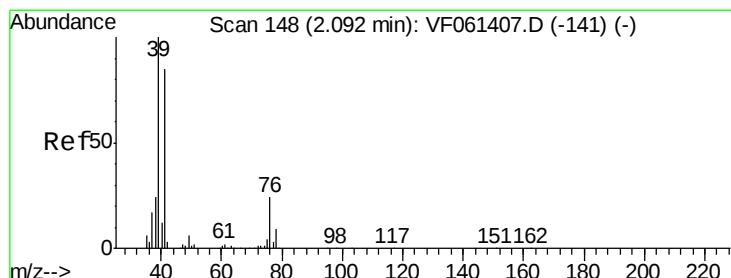
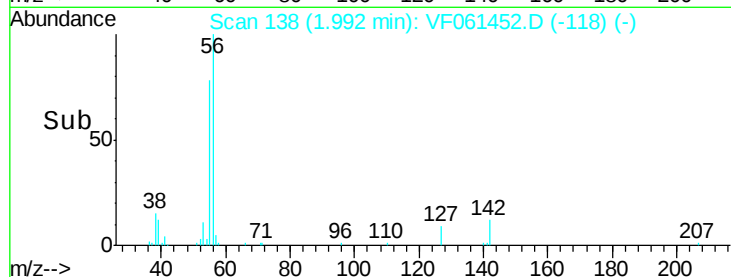
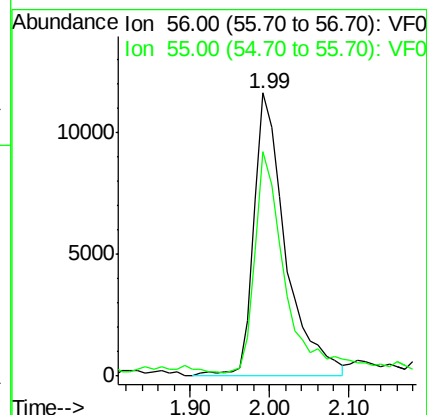
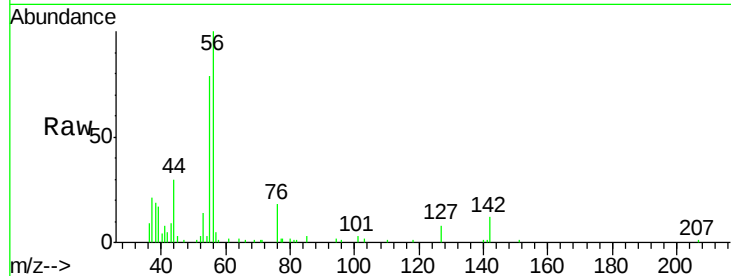
VSTDCCC050

Tot Ion: 56 Resp: 31904

Ion Ratio Lower Upper

56 100

55 79.3 57.5 86.3



#14

Allyl chloride

Concen: 69.211 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

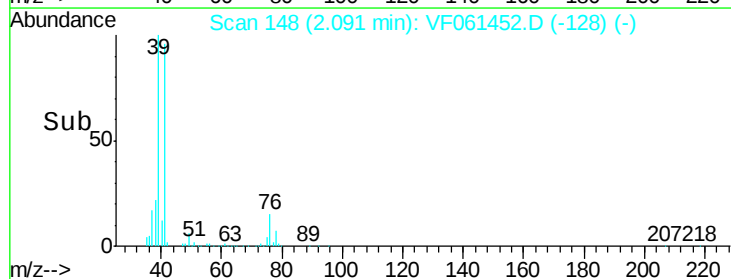
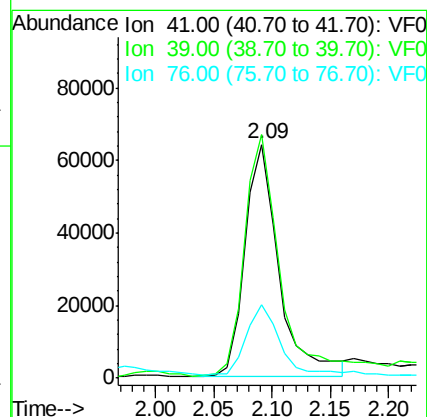
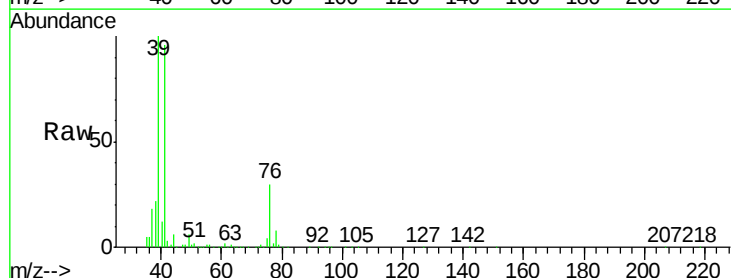
Tgt Ion: 41 Resp: 130845

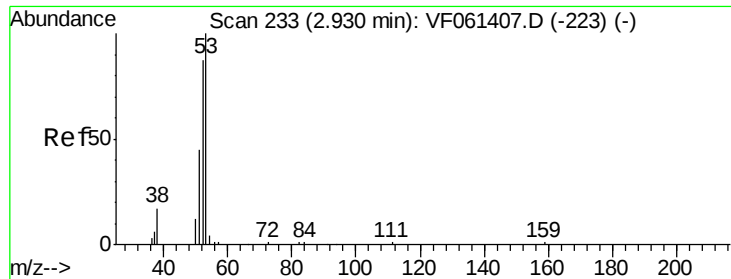
Ion Ratio Lower Upper

41 100

39 104.2 94.6 141.8

76 31.5 25.9 38.9





#15

Acrylonitrile

Concen: 262.742 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

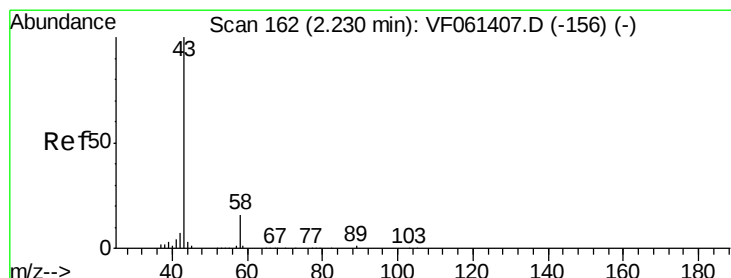
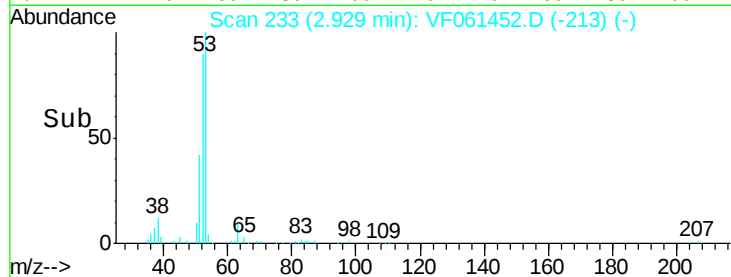
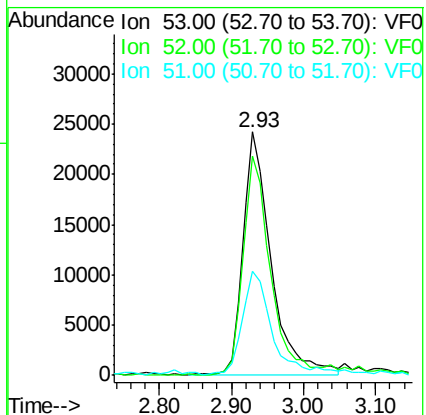
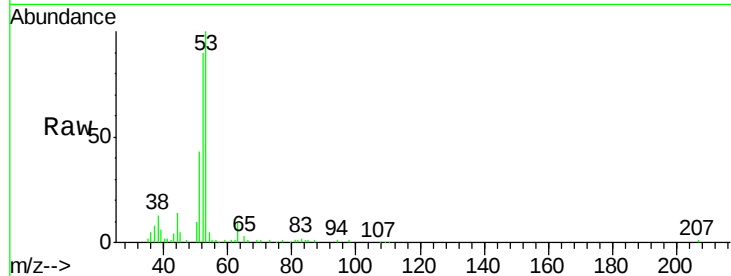
Tot Ion: 53 Resp: 66508

Ion Ratio Lower Upper

53 100

52 90.2 69.6 104.4

51 42.8 36.8 55.2



#16

Acetone

Concen: 298.755 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.00 min

Lab File: VF061452.D

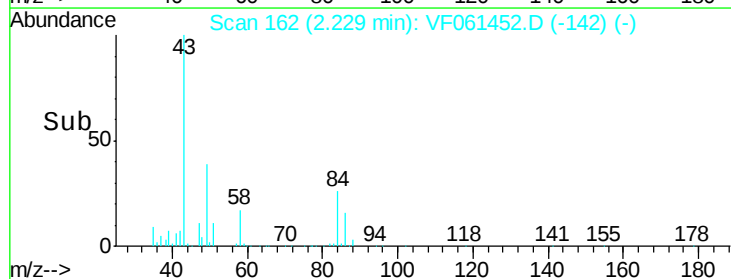
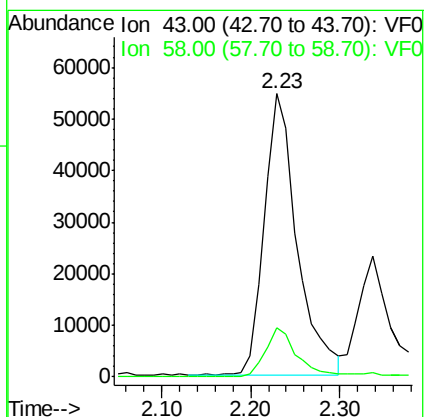
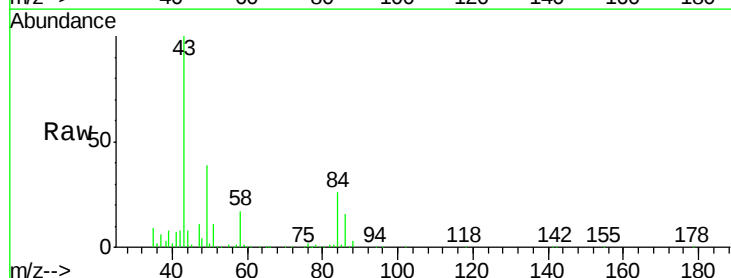
Acq: 18 Jan 2019 11:24

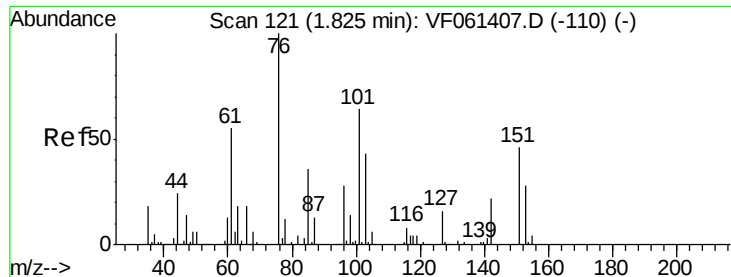
Tgt Ion: 43 Resp: 139924

Ion Ratio Lower Upper

43 100

58 17.2 13.3 19.9

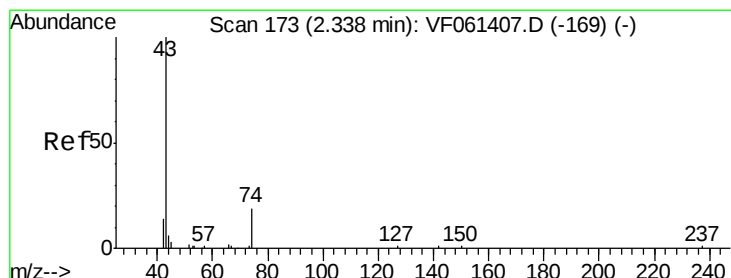
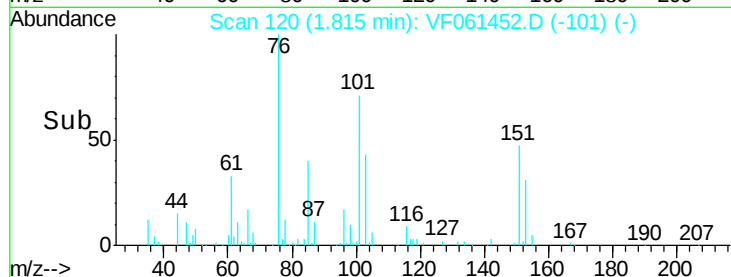
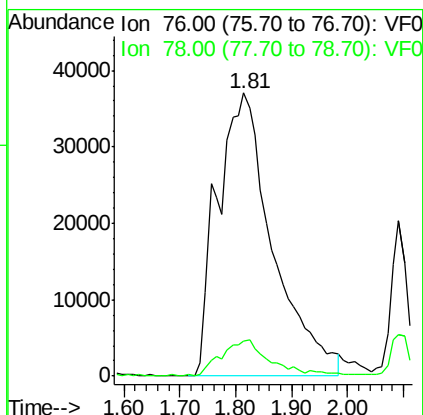
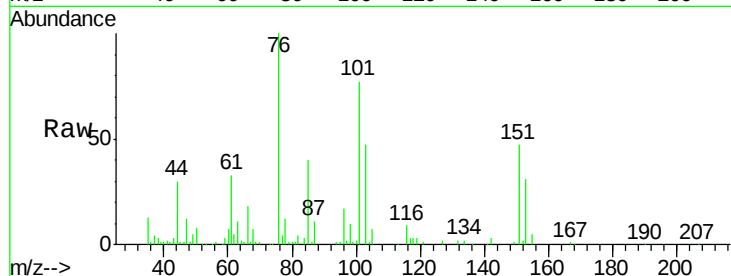




#17
Carbon Disulfide
Concen: 48.363 ug/l
RT: 1.81 min Scan# 120
Delta R.T. -0.01 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

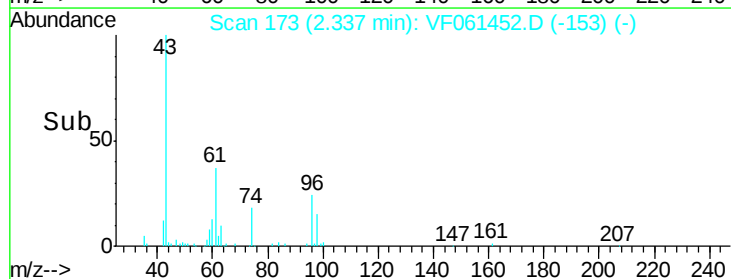
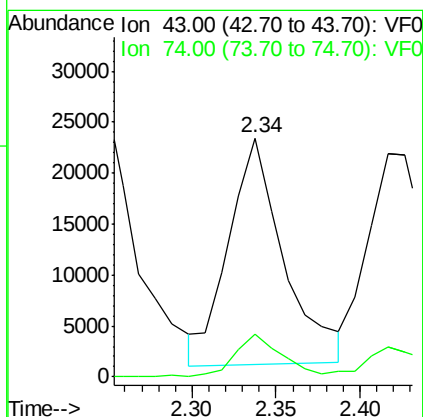
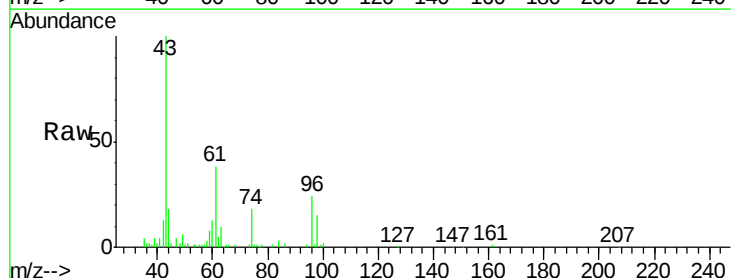
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

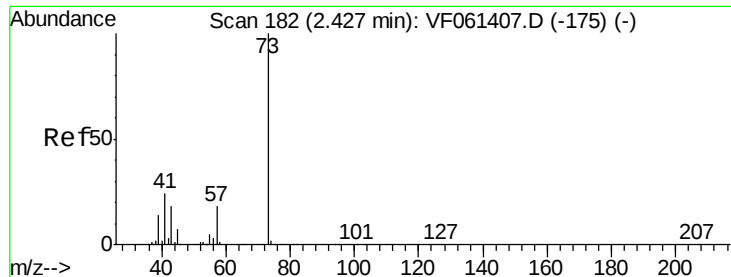
Tot Ion: 76 Resp: 253620
Ion Ratio Lower Upper
76 100
78 12.4 9.6 14.4



#18
Methyl Acetate
Concen: 54.567 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion: 43 Resp: 50683
Ion Ratio Lower Upper
43 100
74 18.0 13.4 20.0



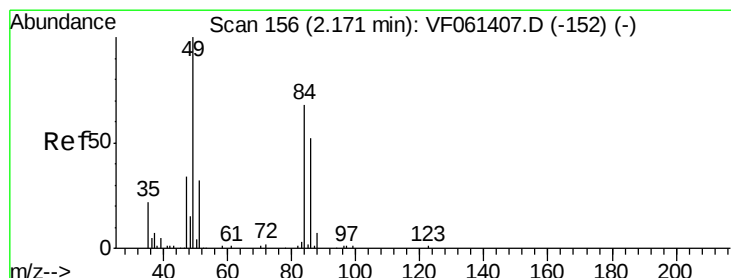
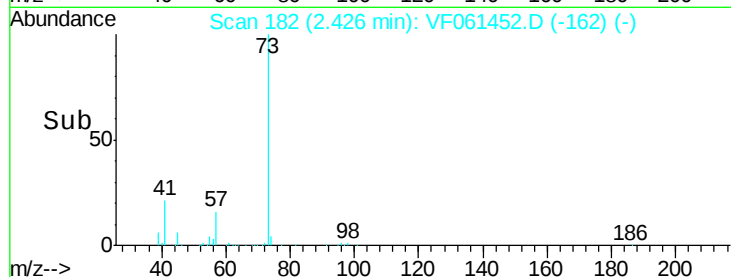
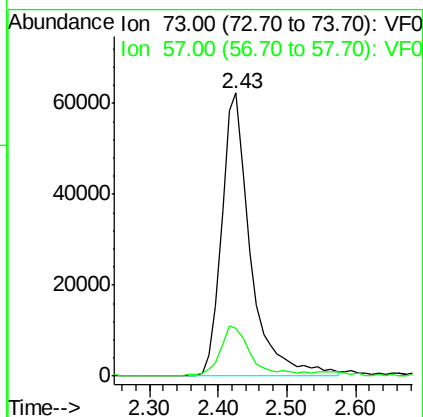
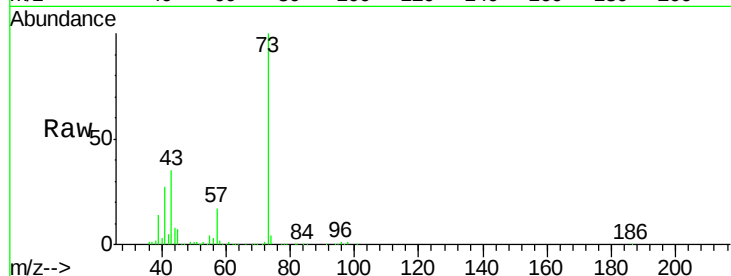


#19

Methyl tert-butyl Ether
 Concen: 47.817 ug/l
 RT: 2.43 min Scan# 182
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

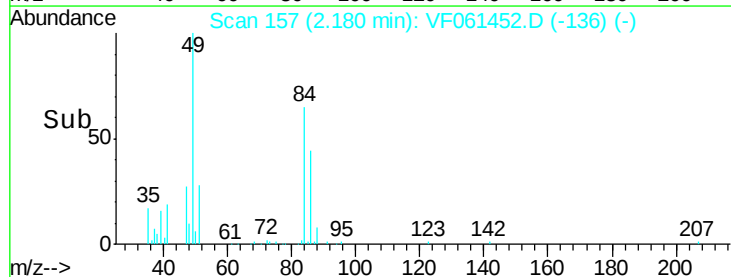
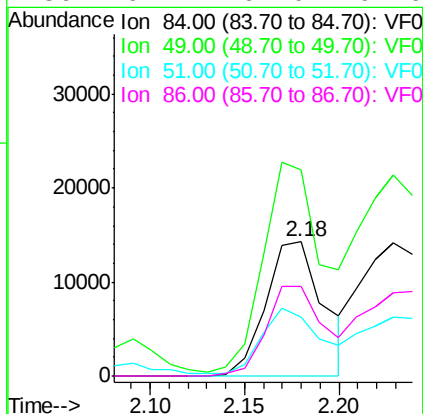
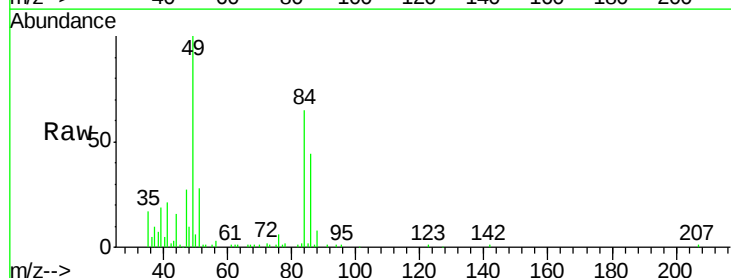
Tot Ion: 73 Resp: 180278
 Ion Ratio Lower Upper
 73 100
 57 16.8 14.8 22.2

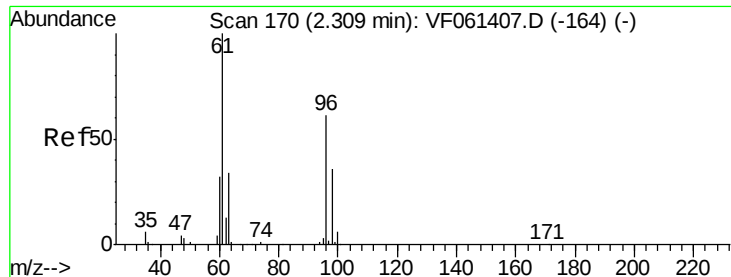


#20

Methylene Chloride
 Concen: 18.054 ug/l
 RT: 2.18 min Scan# 157
 Delta R.T. 0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion: 84 Resp: 30489
 Ion Ratio Lower Upper
 84 100
 49 153.3 120.0 180.0
 51 43.5 38.6 58.0
 86 67.2 61.0 91.6





#21

trans-1,2-Dichloroethene

Concen: 47.825 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

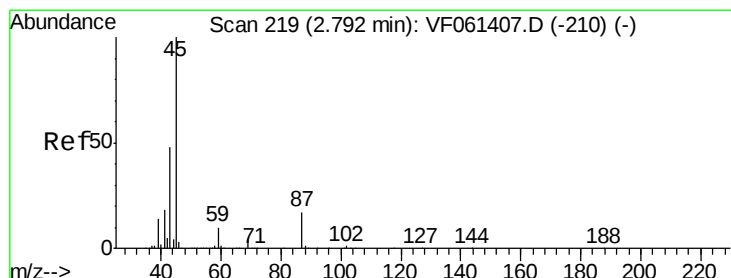
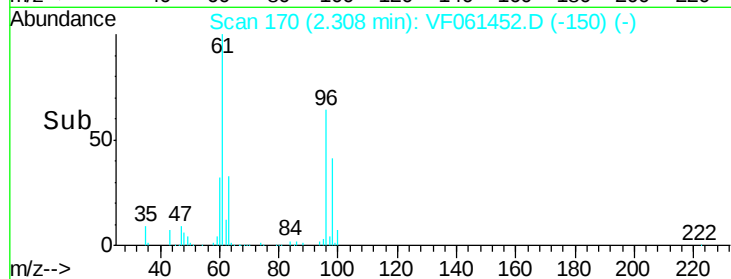
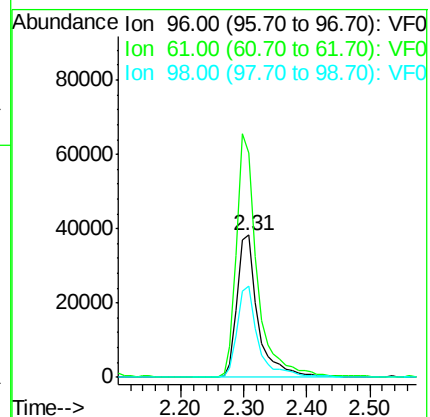
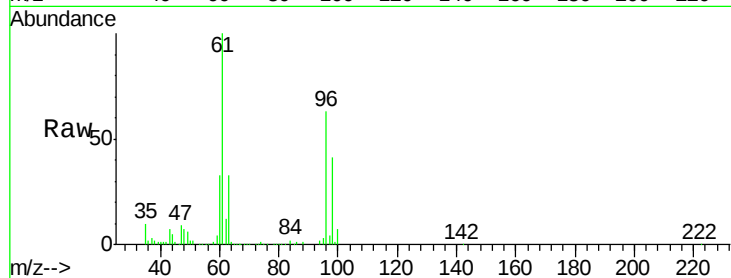
Tot Ion: 96 Resp: 88496

Ion Ratio Lower Upper

96 100

61 158.0 131.8 197.8

98 64.6 47.4 71.0



#22

Diisopropyl ether

Concen: 46.611 ug/l

RT: 2.79 min Scan# 219

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion: 45 Resp: 278966

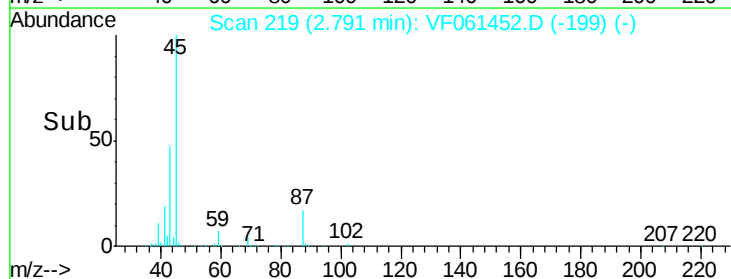
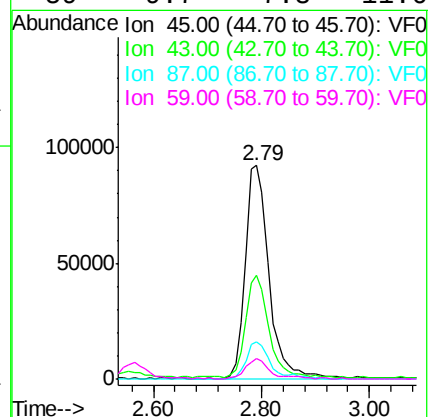
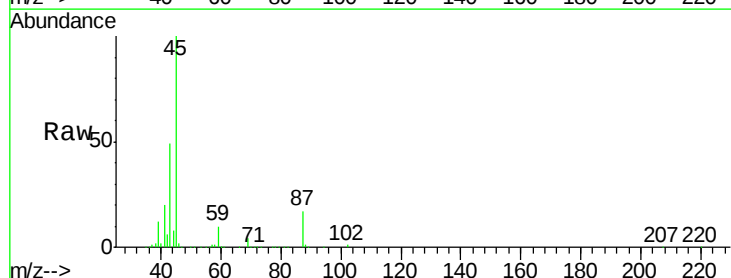
Ion Ratio Lower Upper

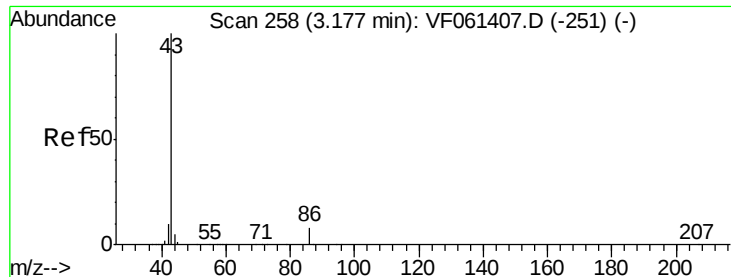
45 100

43 48.8 39.0 58.6

87 17.3 13.9 20.9

59 9.7 7.8 11.6





#23

Vinyl Acetate

Concen: 259.612 ug/l

RT: 3.18 min Scan# 258

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

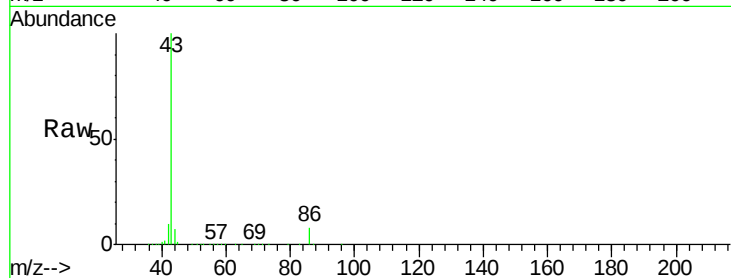
VSTDCCC050

Tot Ion: 43 Resp: 683758

Ion Ratio Lower Upper

43 100

86 7.8 6.2 9.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.18

250000

200000

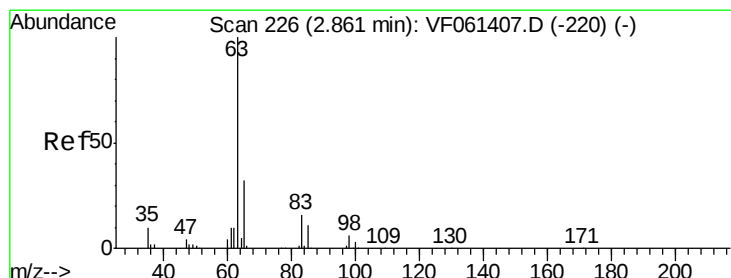
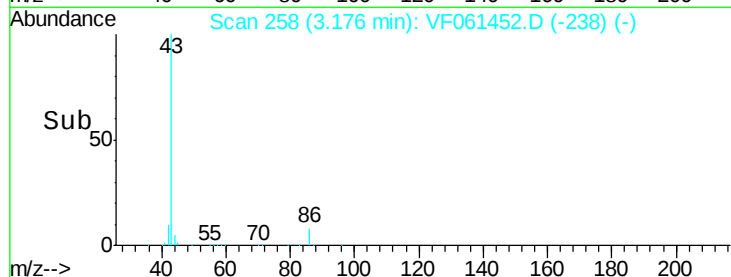
150000

100000

50000

0

Time--> 3.00 3.10 3.20 3.30 3.40



#24

1,1-Dichloroethane

Concen: 45.375 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

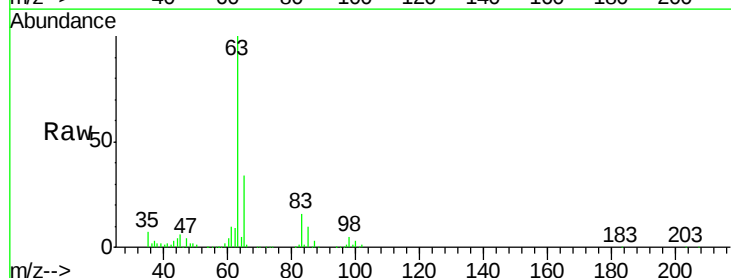
Tgt Ion: 63 Resp: 170444

Ion Ratio Lower Upper

63 100

98 4.9 2.9 8.8

100 3.2 1.6 4.8



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

2.86

80000

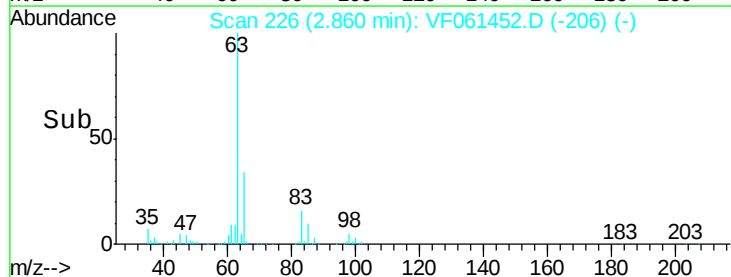
60000

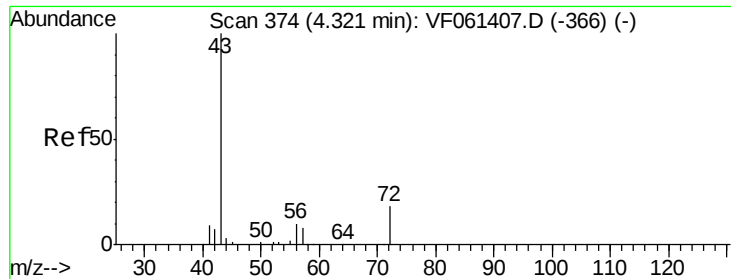
40000

20000

0

Time--> 2.70 2.80 2.90 3.00





#25

2-Butanone

Concen: 263.420 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

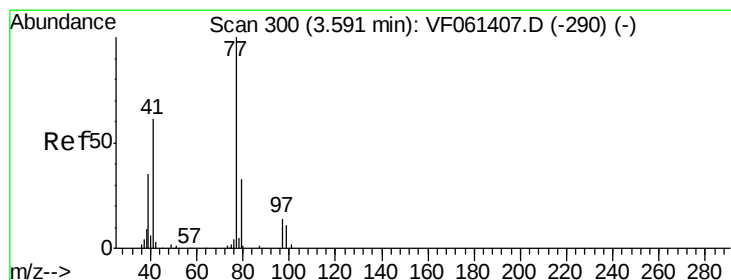
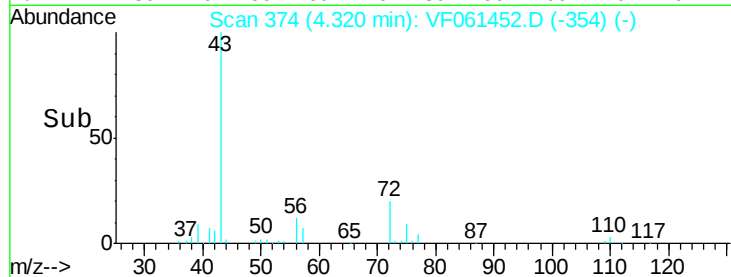
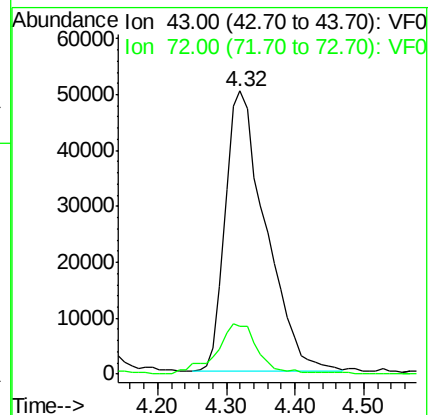
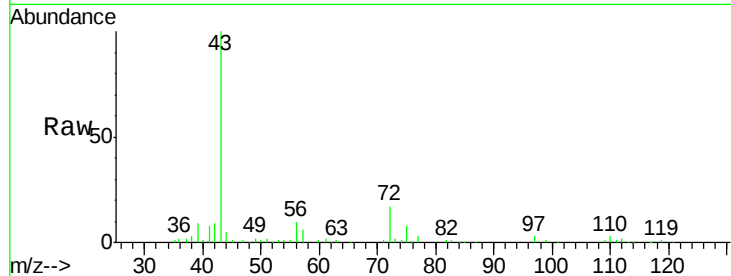
VSTDCCC050

Tot Ion: 43 Resp: 205167

Ion Ratio Lower Upper

43 100

72 17.1 15.8 23.6



#26

2,2-Dichloropropane

Concen: 45.762 ug/l

RT: 3.59 min Scan# 300

Delta R.T. 0.00 min

Lab File: VF061452.D

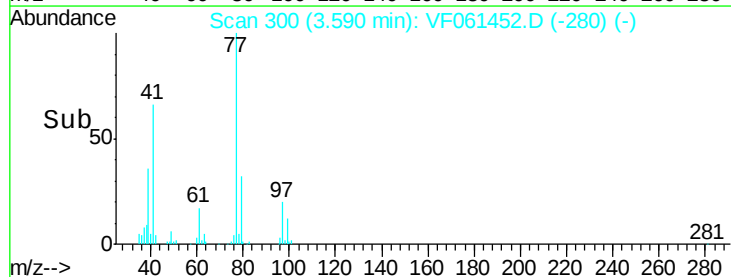
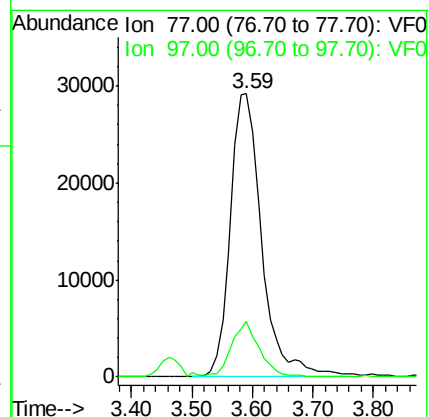
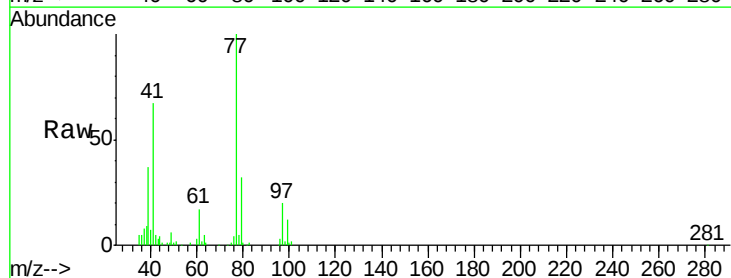
Acq: 18 Jan 2019 11:24

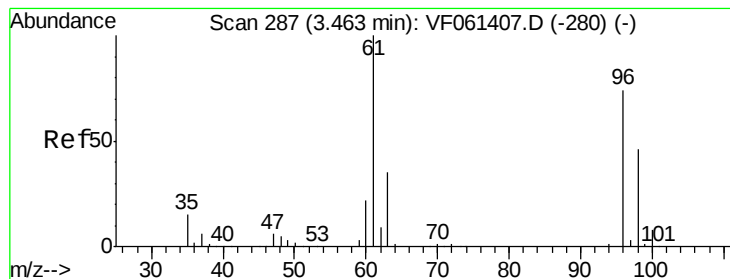
Tgt Ion: 77 Resp: 105614

Ion Ratio Lower Upper

77 100

97 19.8 8.5 25.5



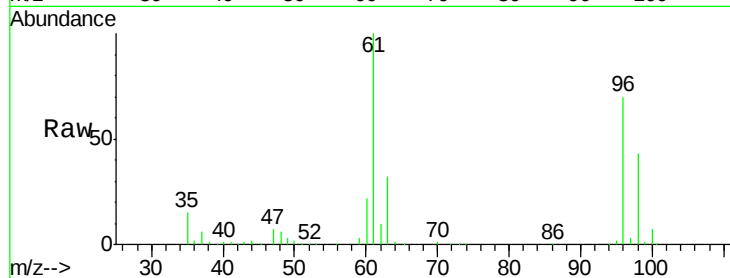


#27

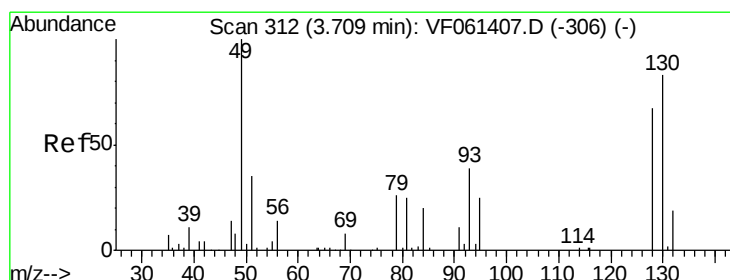
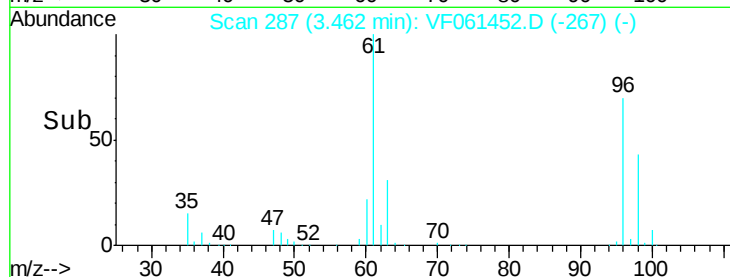
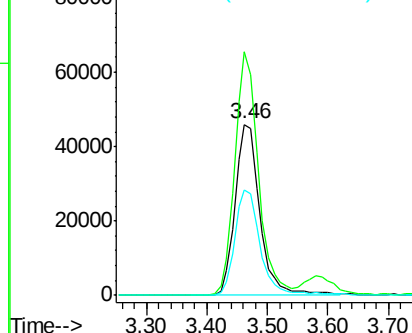
cis-1,2-Dichloroethene
Concen: 48.314 ug/l
RT: 3.46 min Scan# 287
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion	96	Resp	131968
Ion	Ratio	Lower	Upper
96	100		
61	142.5	0.0	270.2
98	61.4	0.0	124.0



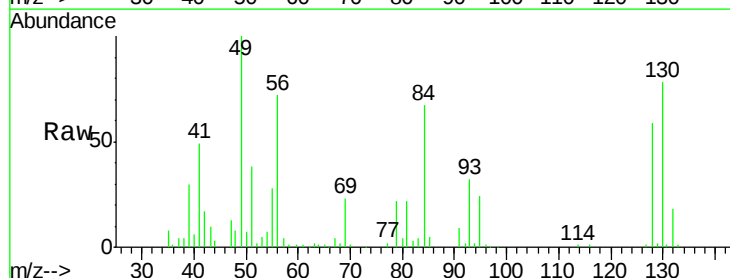
Abundance Ion 96.00 (95.70 to 96.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 98.00 (97.70 to 98.70): VF0



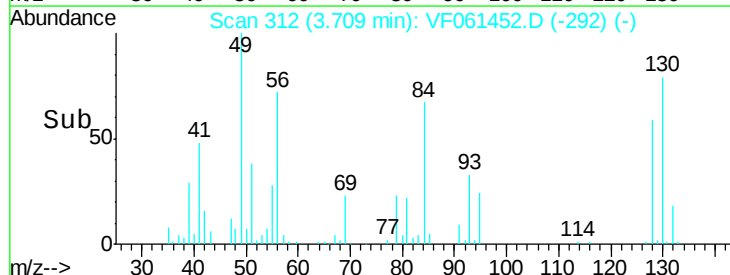
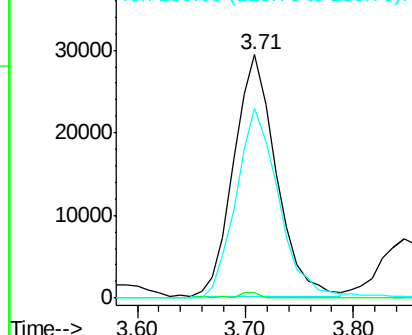
#28

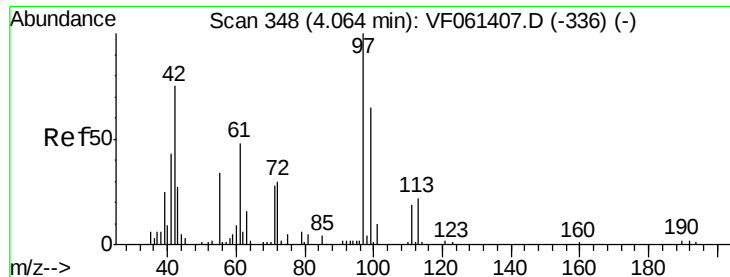
Bromochloromethane
Concen: 47.224 ug/l
RT: 3.71 min Scan# 312
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion	49	Resp	79738
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	0.0#
130	78.2	65.4	98.2



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: 252.807 ug/l

RT: 4.06 min Scan# 348

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

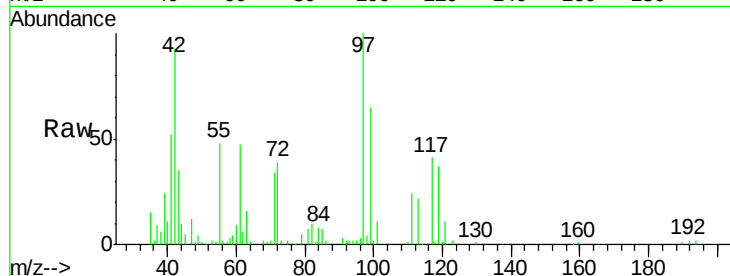
Tot Ion: 42 Resp: 84784

Ion Ratio Lower Upper

42 100

72 36.5 28.9 43.3

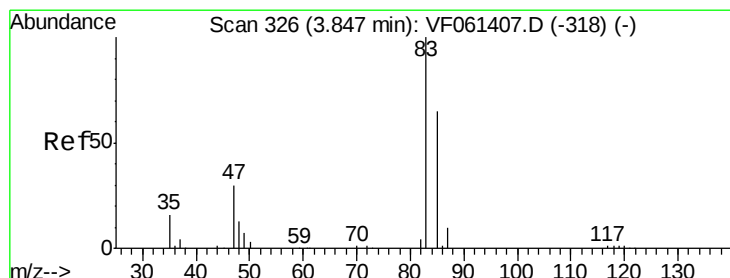
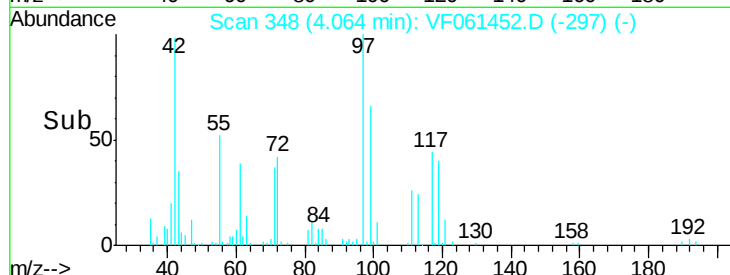
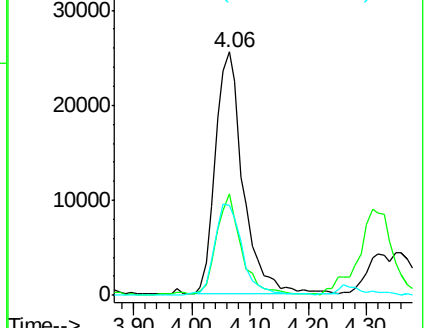
71 37.2 29.6 44.4



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: 44.524 ug/l

RT: 3.85 min Scan# 326

Delta R.T. -0.00 min

Lab File: VF061452.D

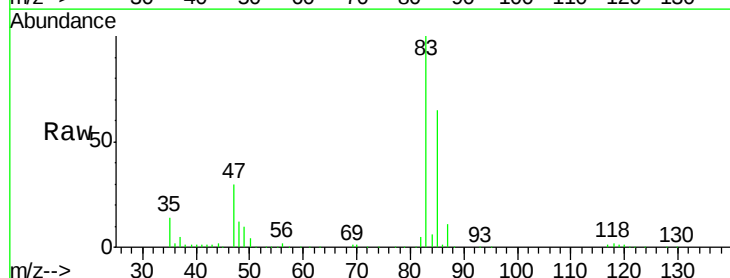
Acq: 18 Jan 2019 11:24

Tgt Ion: 83 Resp: 225714

Ion Ratio Lower Upper

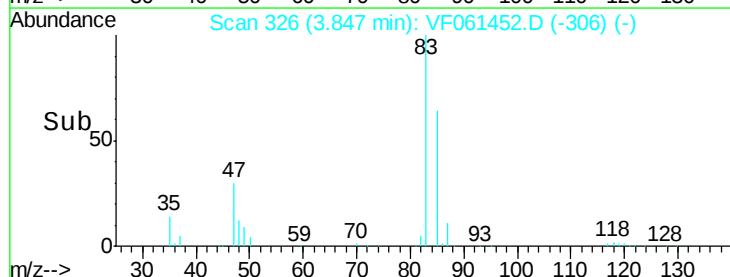
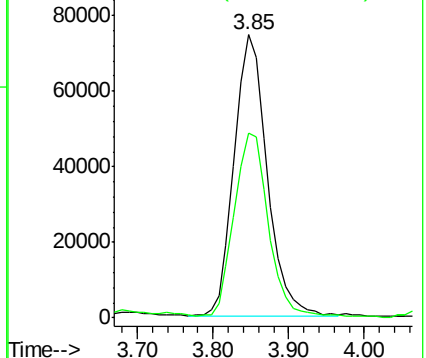
83 100

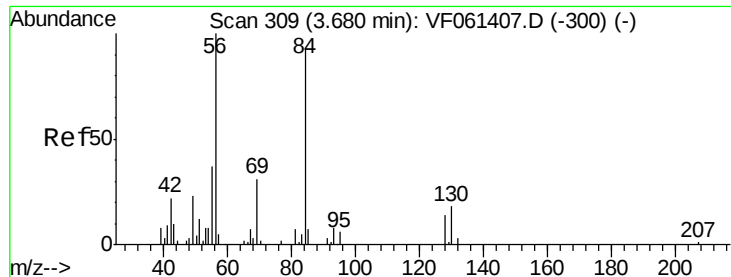
85 65.2 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cyclohexane

Concen: 29.763 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

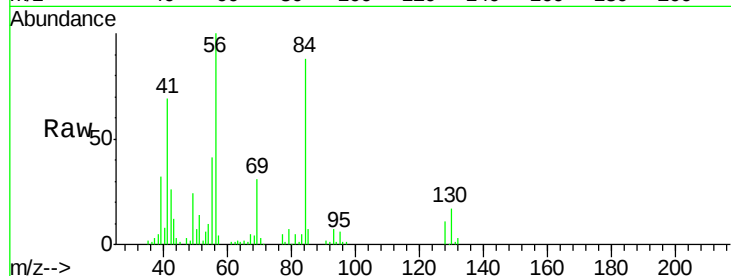
Tot Ion: 56 Resp: 111677

Ion Ratio Lower Upper

56 100

69 30.7 24.6 36.8

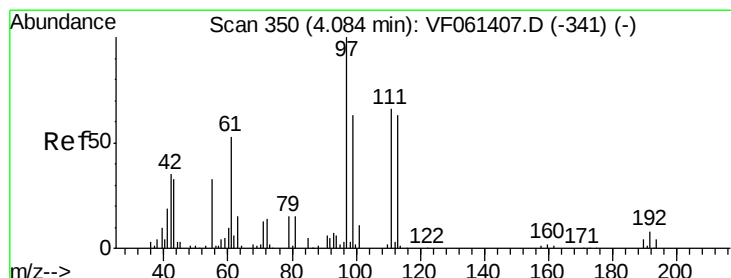
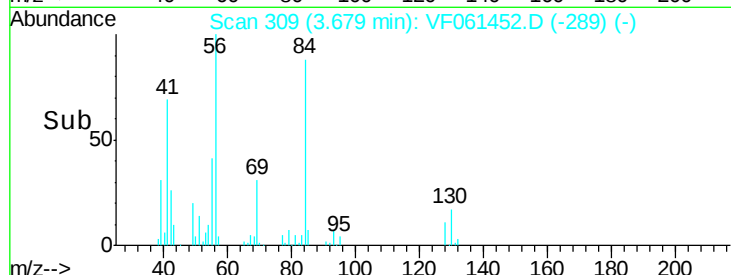
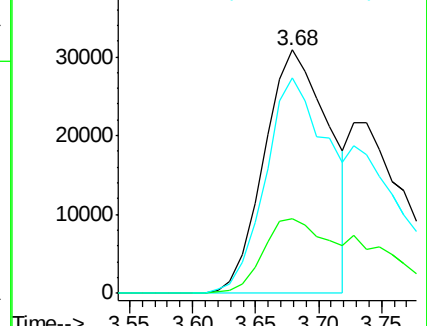
84 88.3 74.2 111.2



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: 47.813 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

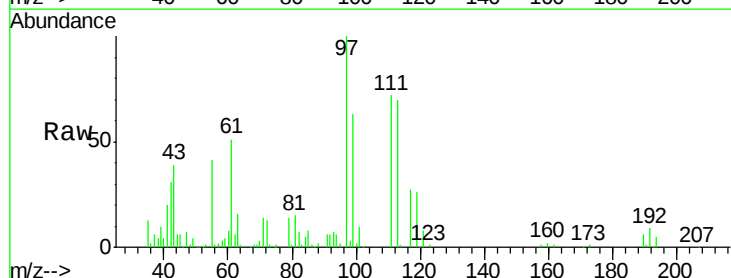
Tgt Ion: 97 Resp: 177727

Ion Ratio Lower Upper

97 100

99 62.9 50.1 75.1

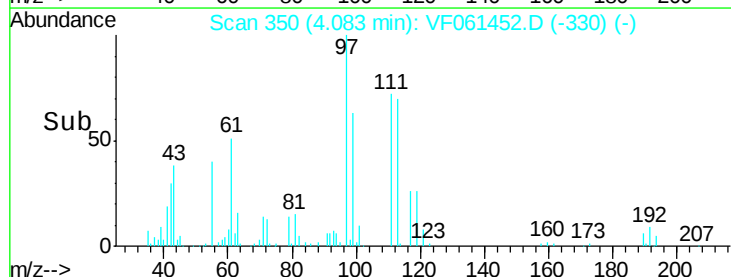
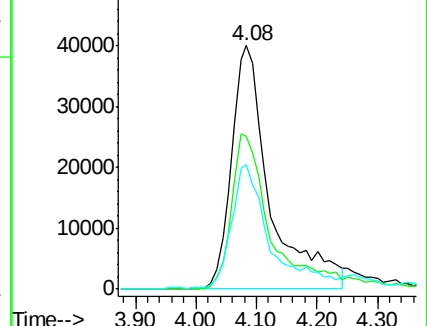
61 51.0 43.1 64.7

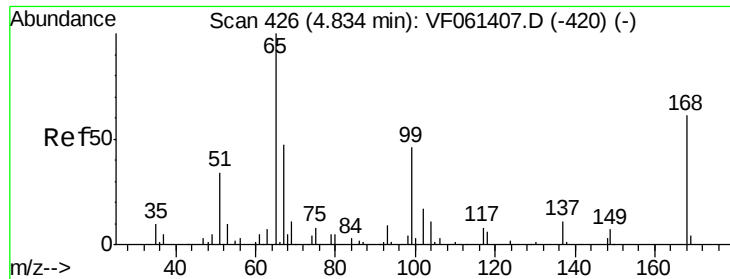


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 50.082 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

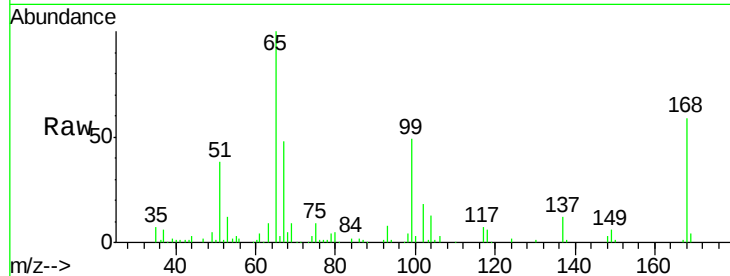
VSTDCCC050

Tot Ion: 65 Resp: 116924

Ion Ratio Lower Upper

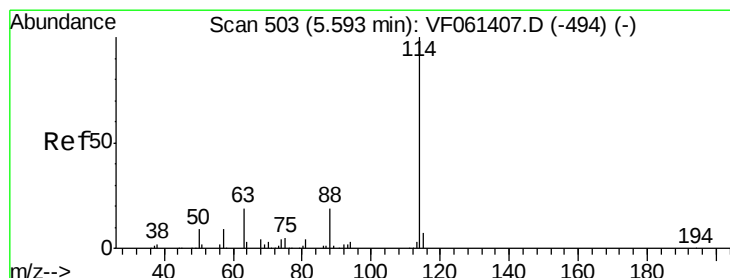
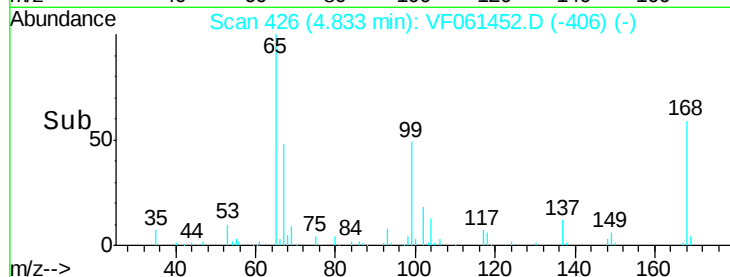
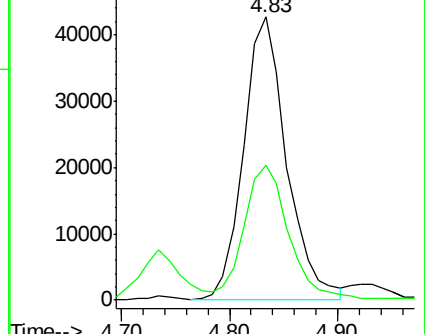
65 100

67 47.8 0.0 99.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

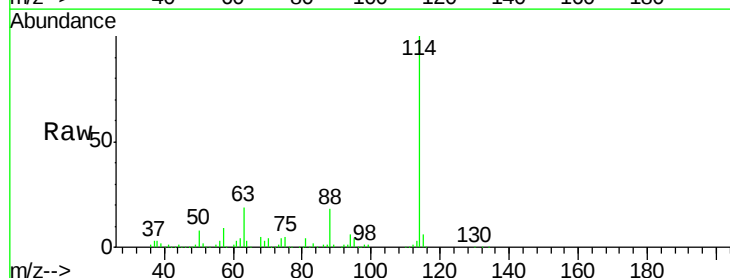
Tgt Ion: 114 Resp: 336532

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.0

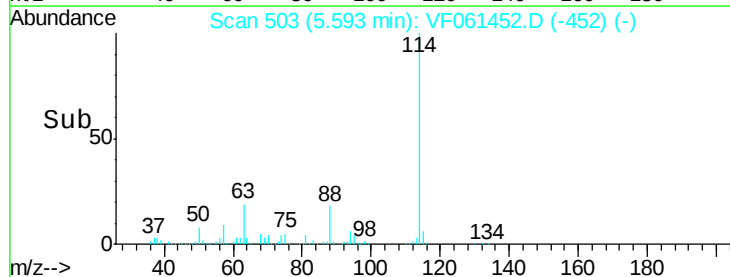
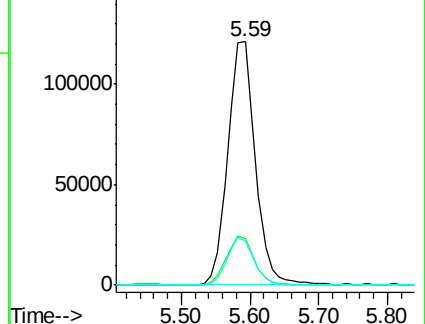
88 18.0 0.0 37.4

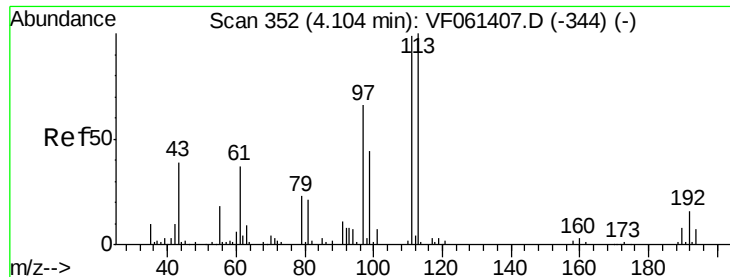


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

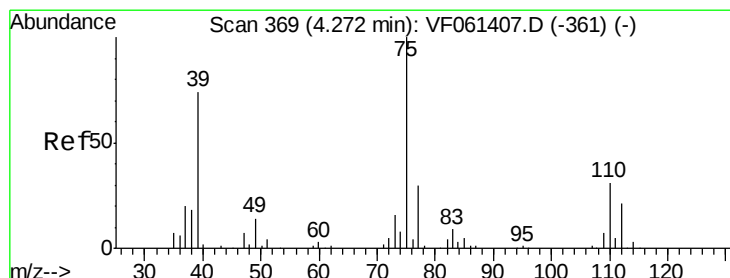
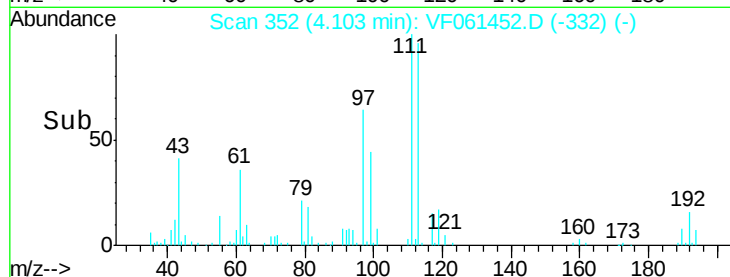
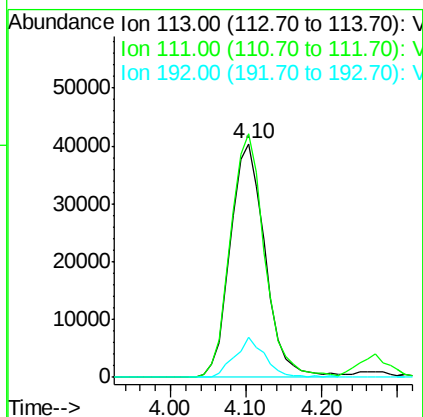
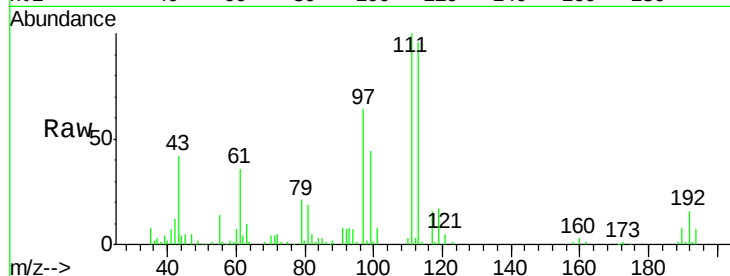




#35
 Dibromofluoromethane
 Concen: 48.508 ug/l
 RT: 4.10 min Scan# 352
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

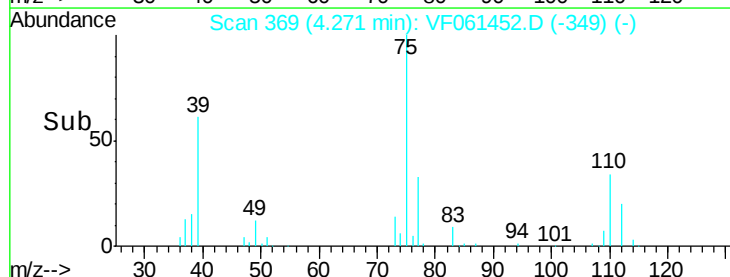
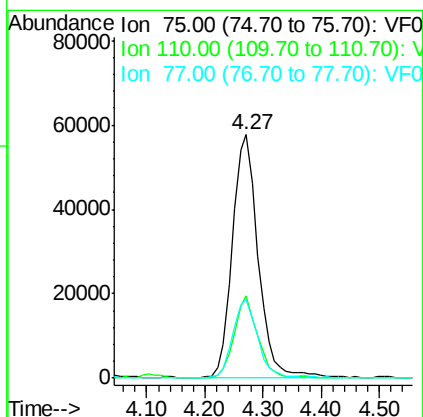
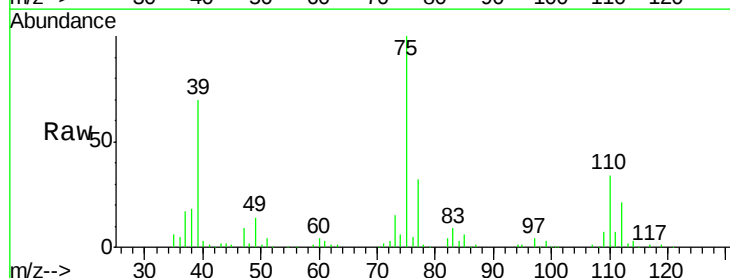
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

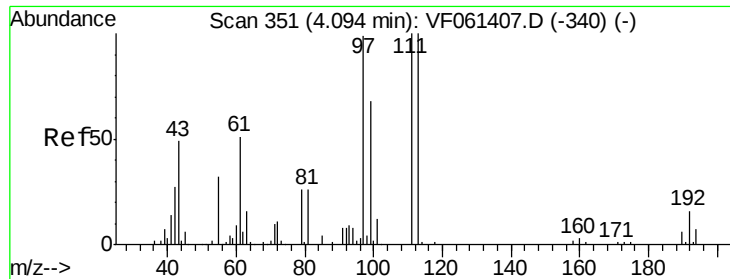
Tot Ion:113 Resp: 128814
 Ion Ratio Lower Upper
 113 100
 111 104.3 79.4 119.0
 192 17.2 12.4 18.6



#36
 1,1-Dichloropropene
 Concen: 45.385 ug/l
 RT: 4.27 min Scan# 369
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion: 75 Resp: 177087
 Ion Ratio Lower Upper
 75 100
 110 33.8 15.8 47.3
 77 32.3 24.0 36.0





#37

Ethyl Acetate

Concen: 48.312 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

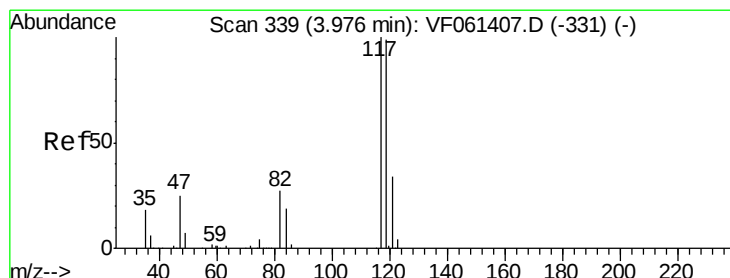
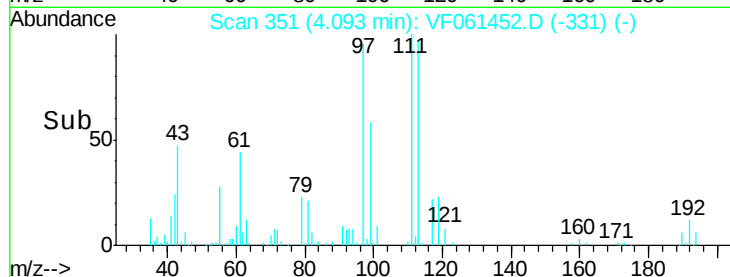
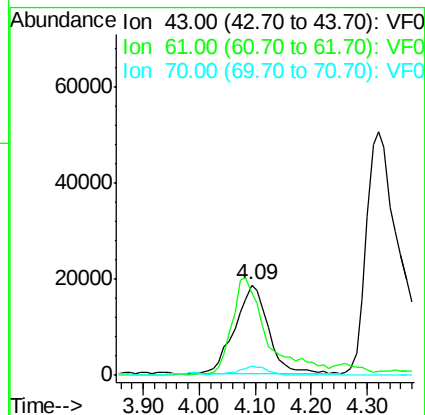
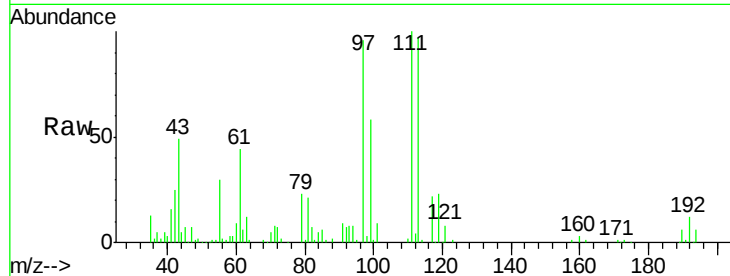
Tot Ion: 43 Resp: 75353

Ion Ratio Lower Upper

43 100

61 90.6 81.7 122.5

70 10.4 6.2 9.2#



#38

Carbon Tetrachloride

Concen: 46.472 ug/l

RT: 3.97 min Scan# 339

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

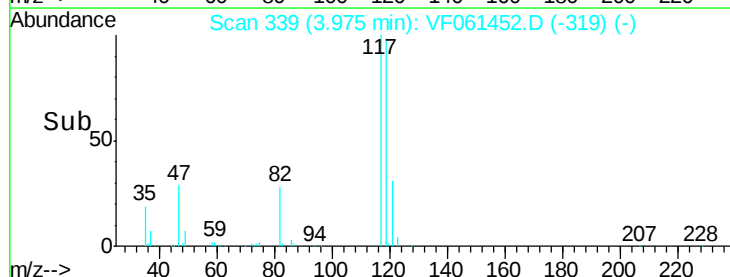
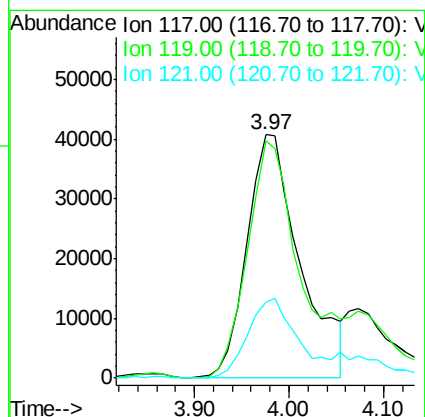
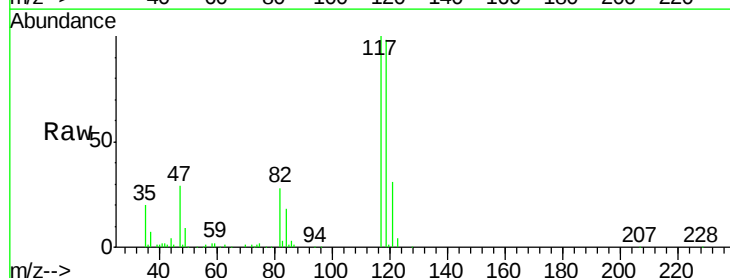
Tgt Ion: 117 Resp: 158525

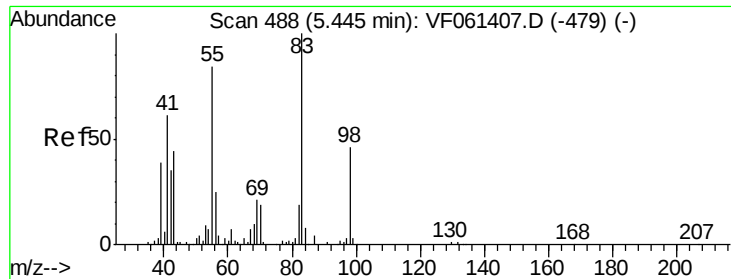
Ion Ratio Lower Upper

117 100

119 97.6 79.0 118.6

121 31.2 27.0 40.6

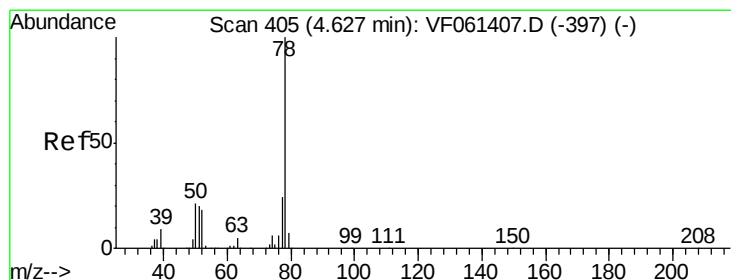
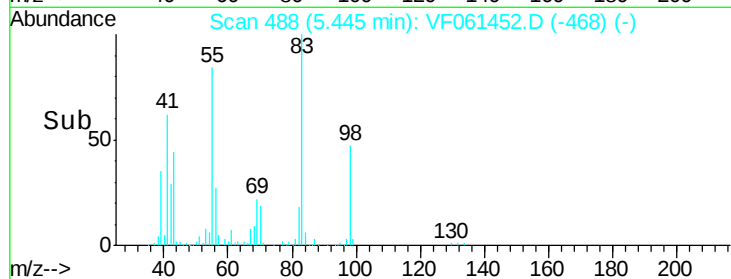
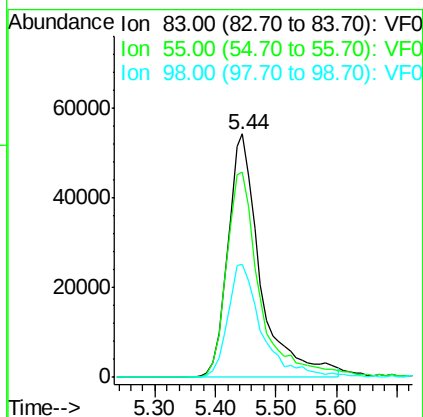
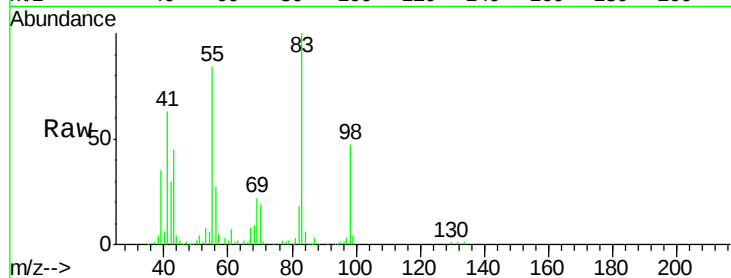




#39
Methvlcvclohexane
Concen: 48.074 ug/l
RT: 5.44 min Scan# 488
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

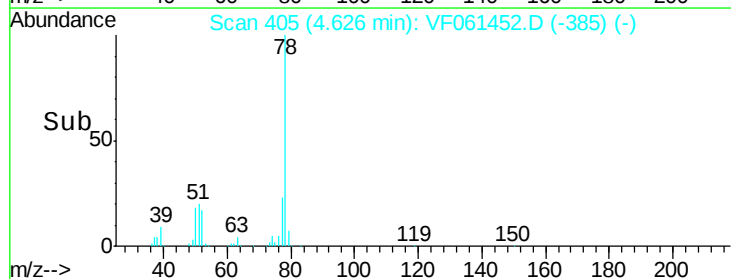
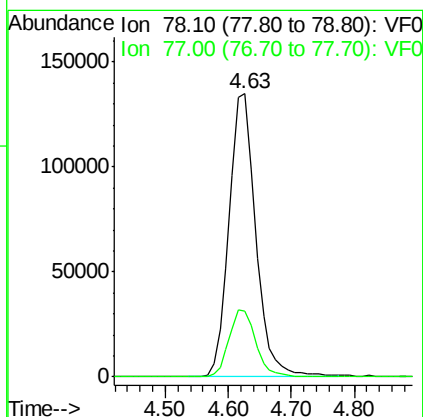
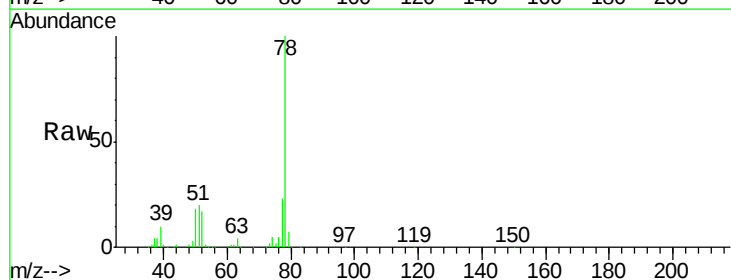
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion: 83 Resp: 203286
Ion Ratio Lower Upper
83 100
55 84.4 67.4 101.2
98 46.7 36.7 55.1



#40
Benzene
Concen: 45.763 ug/l
RT: 4.63 min Scan# 405
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion: 78 Resp: 397336
Ion Ratio Lower Upper
78 100
77 23.1 19.0 28.6





#41

Methacrylonitrile

Concen: 48.204 ug/l

RT: 4.72 min Scan# 415

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 41 Resp: 40006

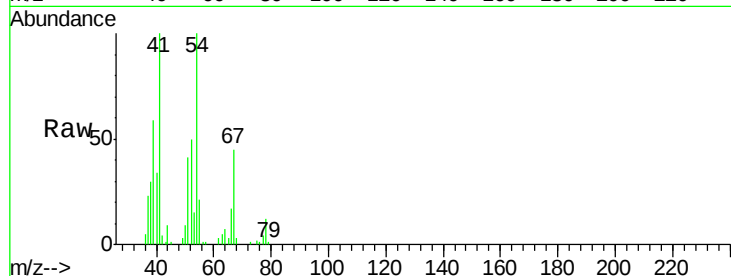
Ion Ratio Lower Upper

41 100

39 58.7 43.1 64.7

67 45.3 38.8 58.2

52 49.9 33.2 49.8#

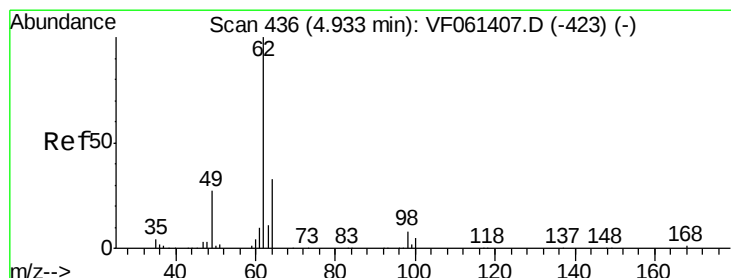
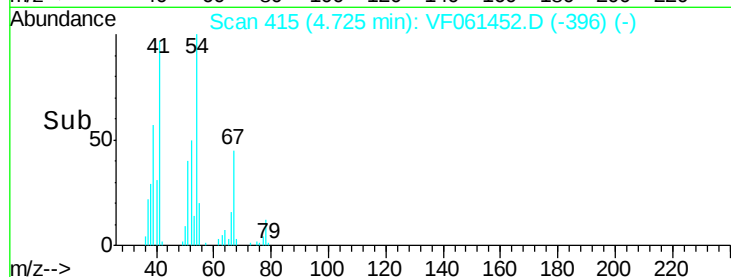
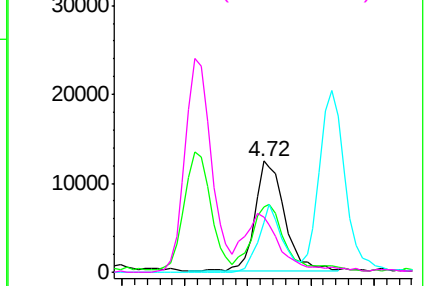


Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 45.801 ug/l

RT: 4.93 min Scan# 436

Delta R.T. -0.00 min

Lab File: VF061452.D

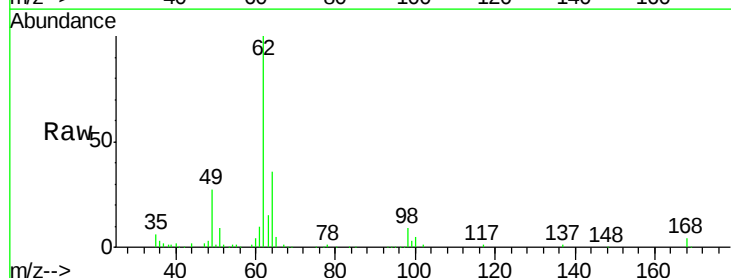
Acq: 18 Jan 2019 11:24

Tgt Ion: 62 Resp: 141705

Ion Ratio Lower Upper

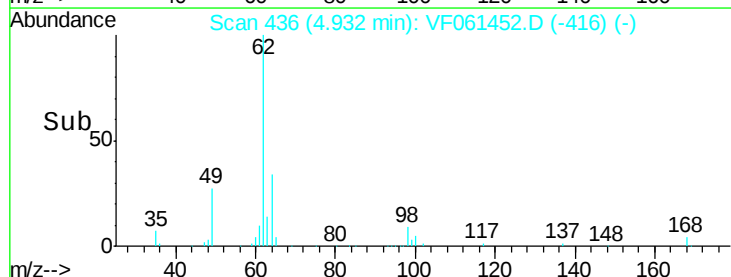
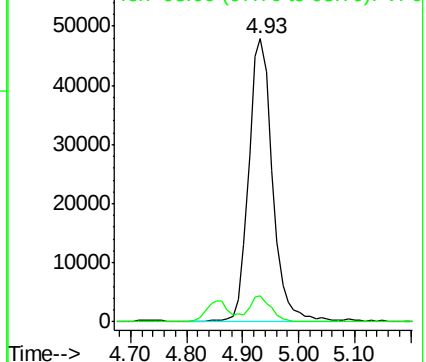
62 100

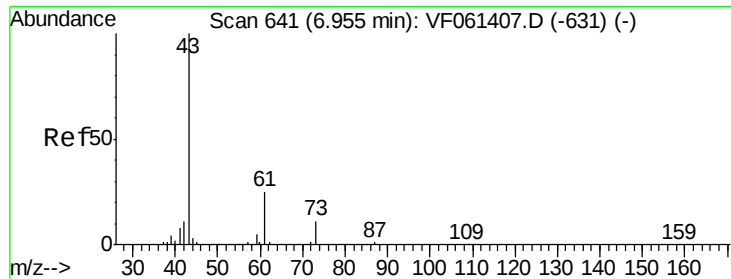
98 9.2 0.0 17.0



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 51.536 ug/l

RT: 6.94 min Scan# 640

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

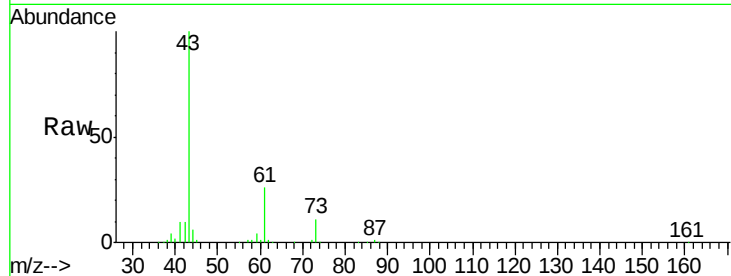
Tot Ion: 43 Resp: 100886

Ion Ratio Lower Upper

43 100

61 26.3 20.3 30.5

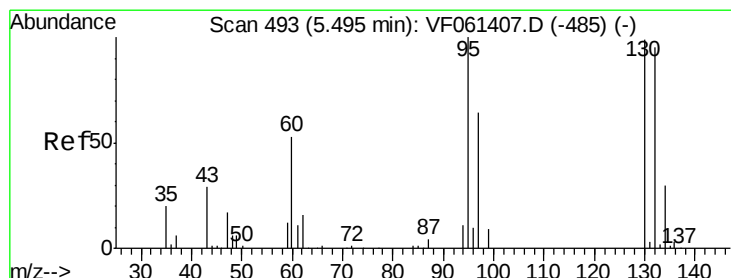
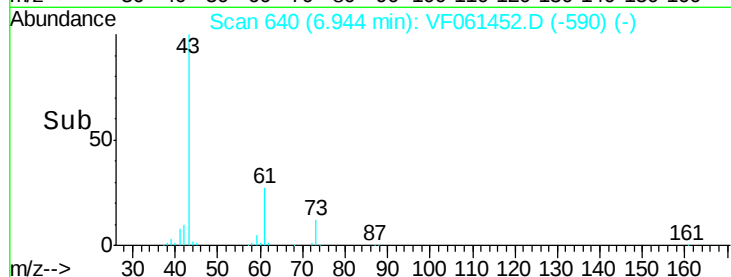
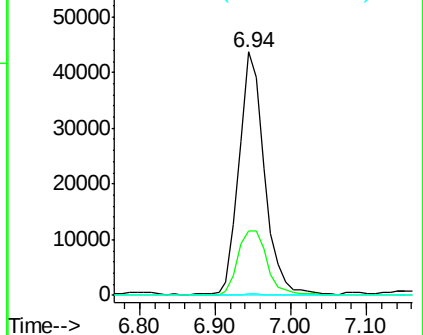
87 0.7 0.5 0.7#



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: 47.824 ug/l

RT: 5.49 min Scan# 493

Delta R.T. -0.00 min

Lab File: VF061452.D

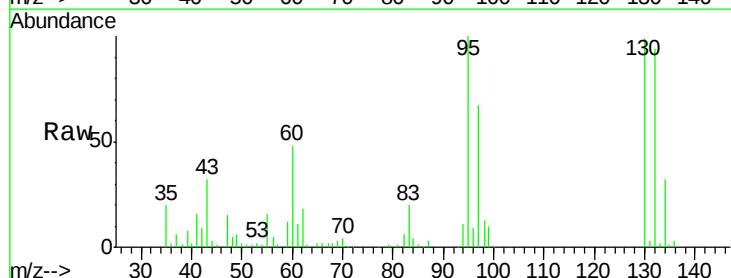
Acq: 18 Jan 2019 11:24

Tgt Ion:130 Resp: 127377

Ion Ratio Lower Upper

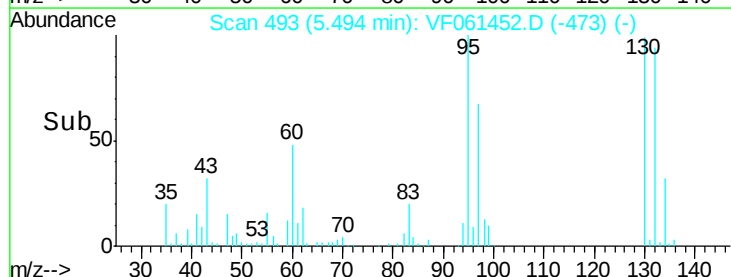
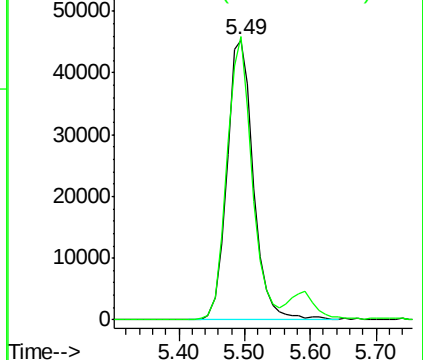
130 100

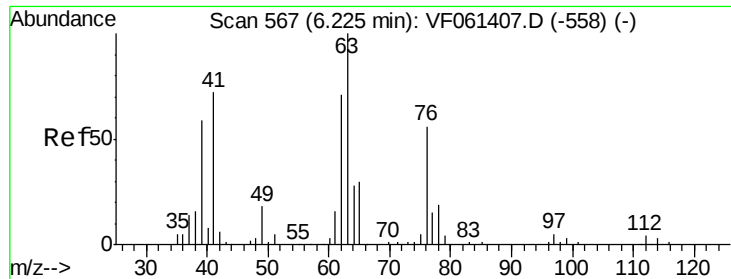
95 101.1 0.0 202.8



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#45

1,2-Dichloropropane

Concen: 49.027 ug/l

RT: 6.22 min Scan# 567

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

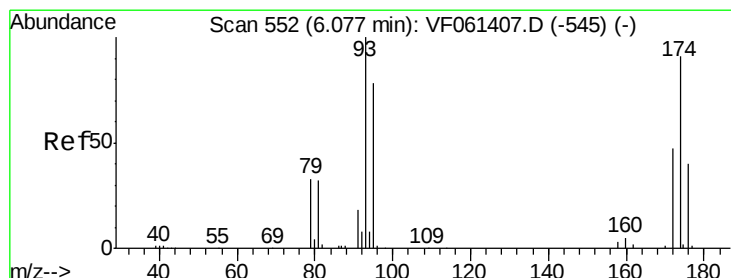
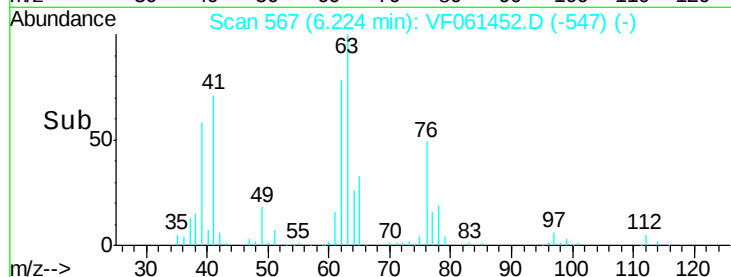
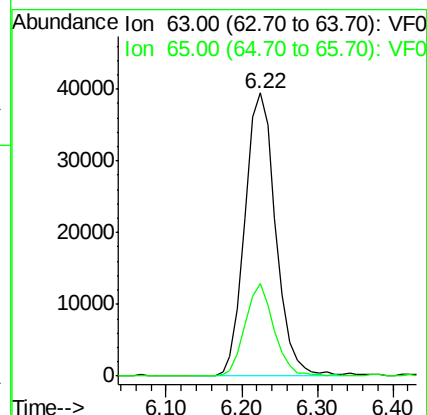
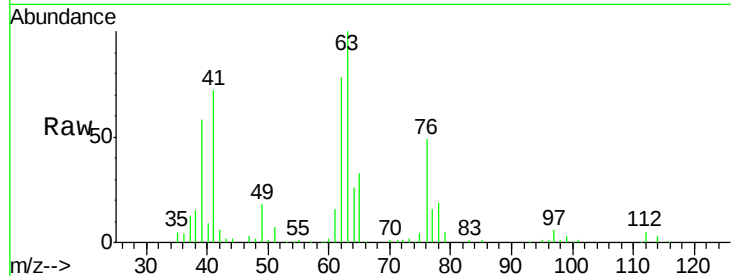
VSTDCCC050

Tot Ion: 63 Resp: 111720

Ion Ratio Lower Upper

63 100

65 32.8 24.4 36.6



#46

Dibromomethane

Concen: 48.415 ug/l

RT: 6.08 min Scan# 552

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

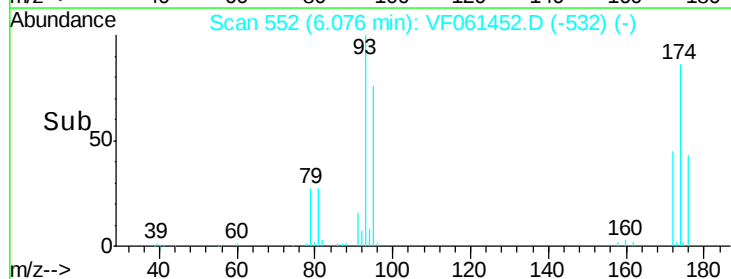
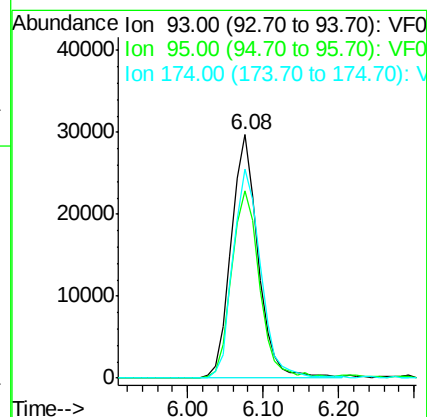
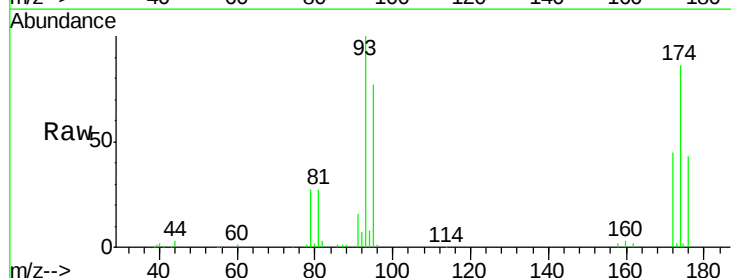
Tgt Ion: 93 Resp: 73359

Ion Ratio Lower Upper

93 100

95 77.1 62.1 93.1

174 88.0 74.6 111.8





#47

Bromodichloromethane

Concen: 47.564 ug/l

RT: 6.37 min Scan# 582

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

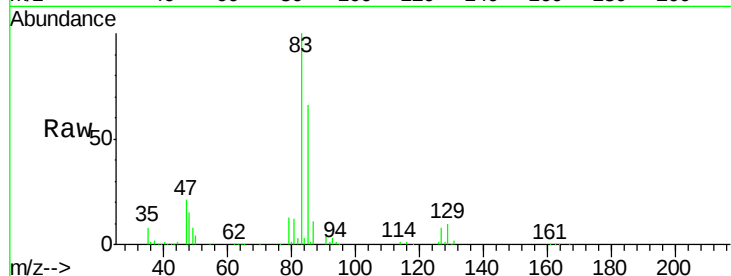
Tot Ion: 83 Resp: 178316

Ion Ratio Lower Upper

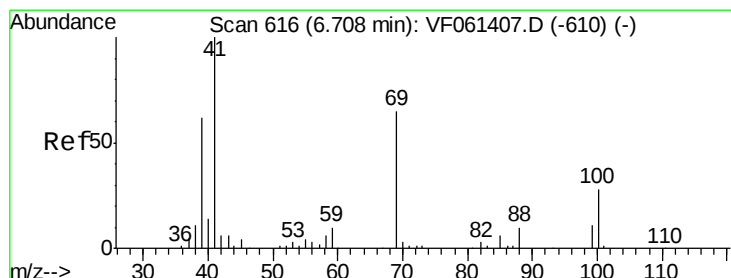
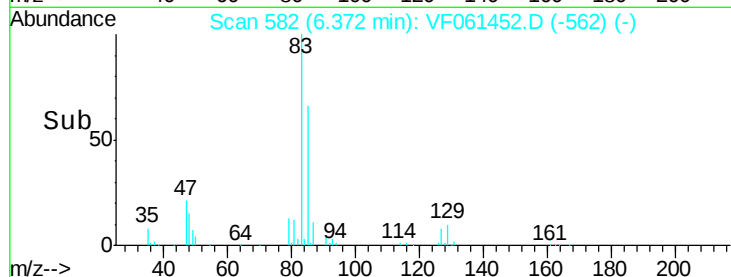
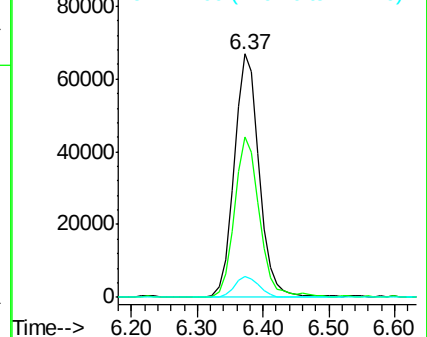
83 100

85 66.1 53.0 79.4

127 8.5 6.9 10.3



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: 47.659 ug/l

RT: 6.71 min Scan# 616

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

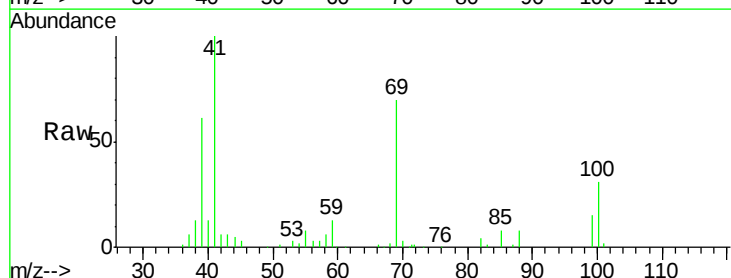
Tgt Ion: 41 Resp: 62648

Ion Ratio Lower Upper

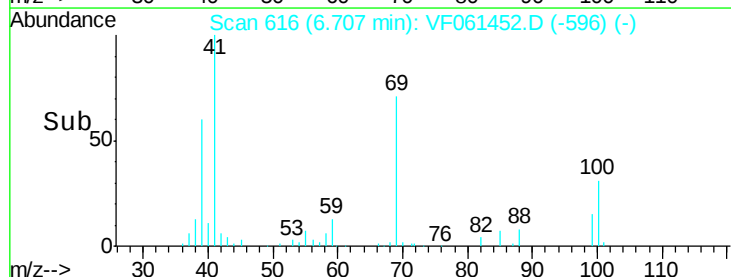
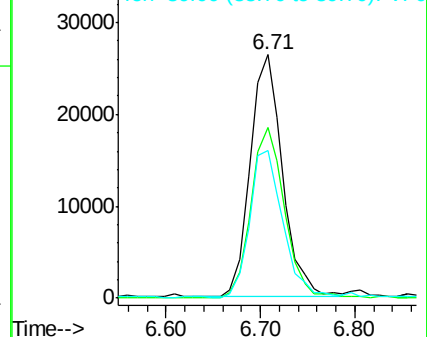
41 100

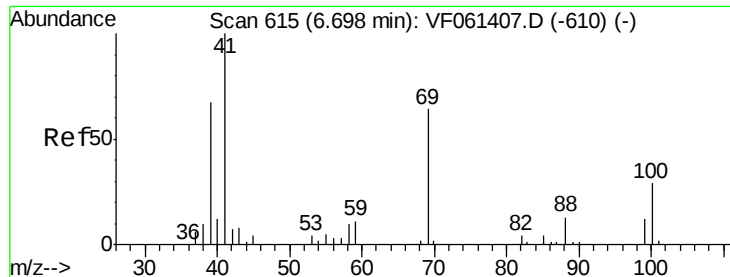
69 70.2 51.7 77.5

39 60.7 49.2 73.8



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: 981.636 ug/l

RT: 6.69 min Scan# 614

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

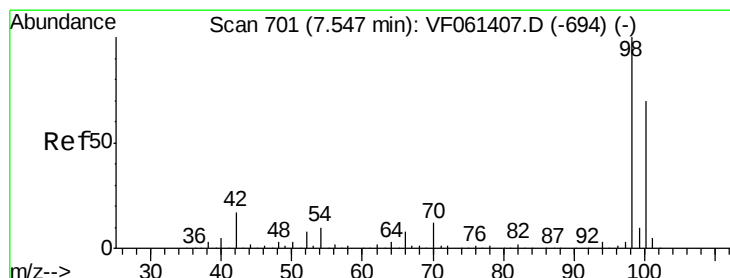
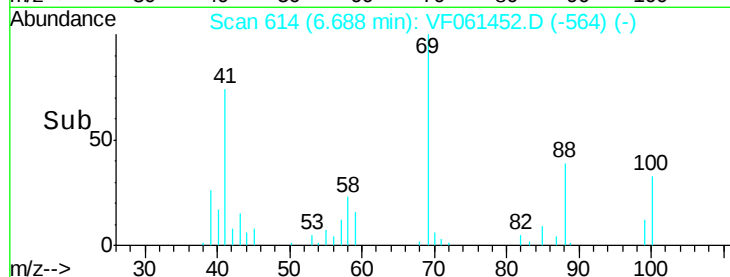
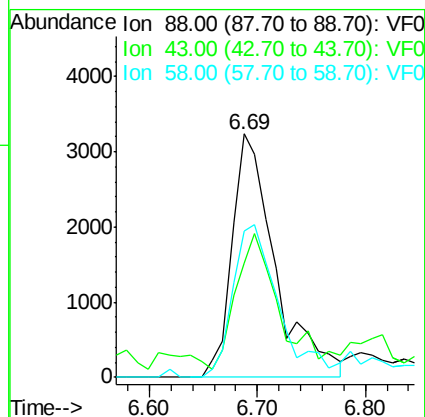
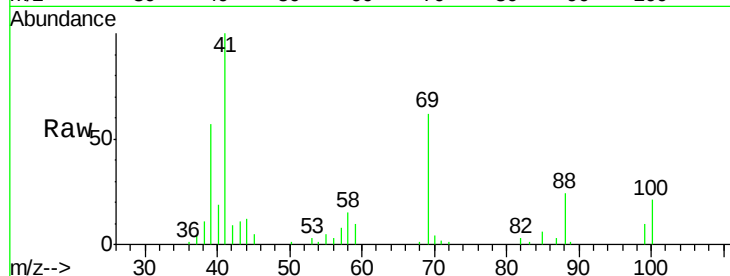
Tot Ion: 88 Resp: 9019

Ion Ratio Lower Upper

88 100

43 47.0 55.5 83.3#

58 59.9 59.9 89.9



#50

Toluene-d8

Concen: 52.242 ug/l

RT: 7.55 min Scan# 701

Delta R.T. -0.00 min

Lab File: VF061452.D

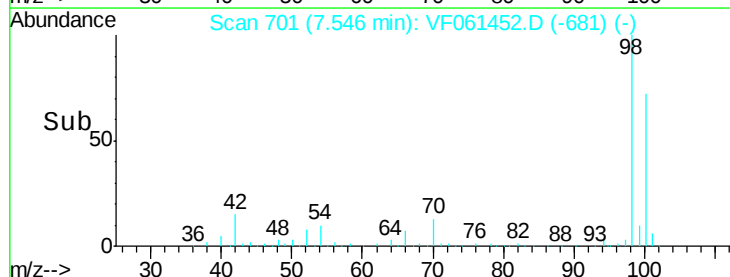
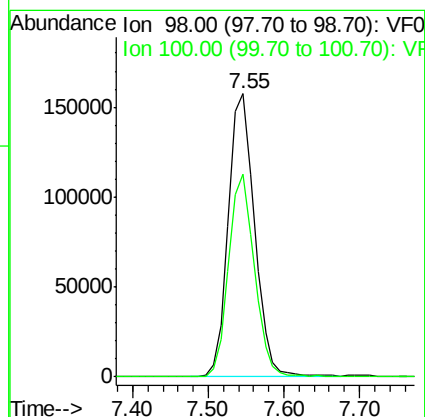
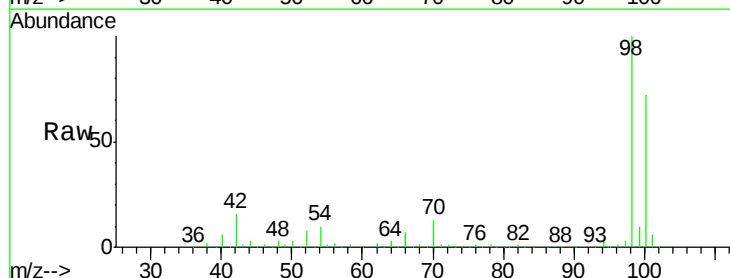
Acq: 18 Jan 2019 11:24

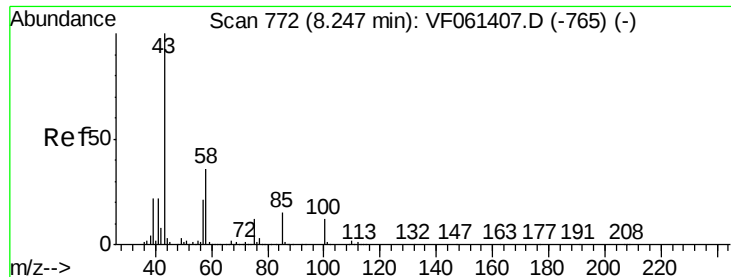
Tgt Ion: 98 Resp: 380098

Ion Ratio Lower Upper

98 100

100 71.7 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 247.834 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

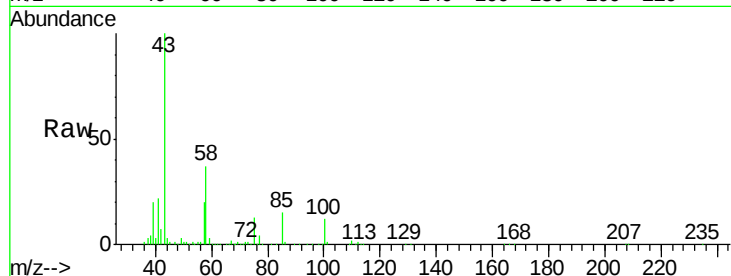
VSTDCCC050

Tot Ion: 43 Resp: 356663

Ion Ratio Lower Upper

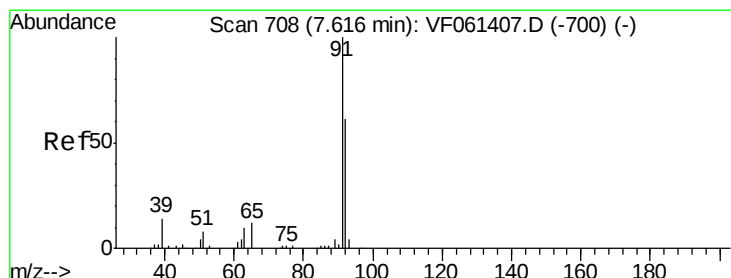
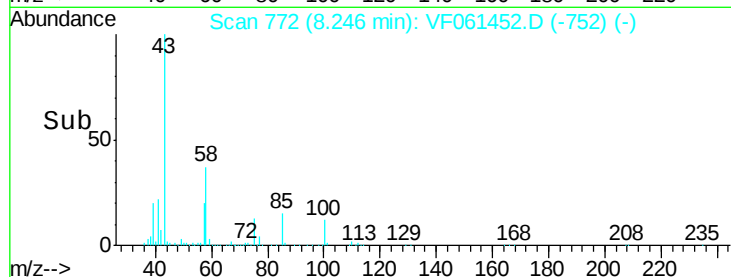
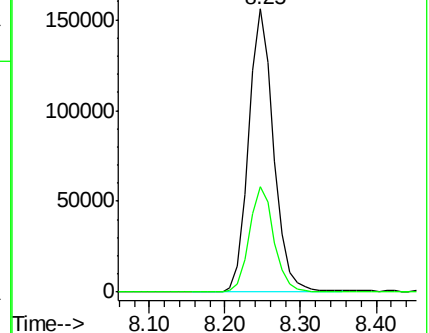
43 100

58 37.1 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 43.820 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.00 min

Lab File: VF061452.D

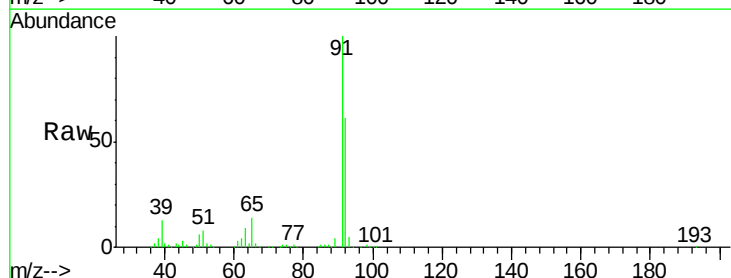
Acq: 18 Jan 2019 11:24

Tgt Ion: 92 Resp: 250550

Ion Ratio Lower Upper

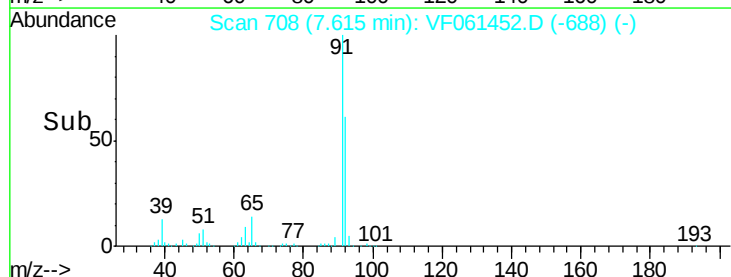
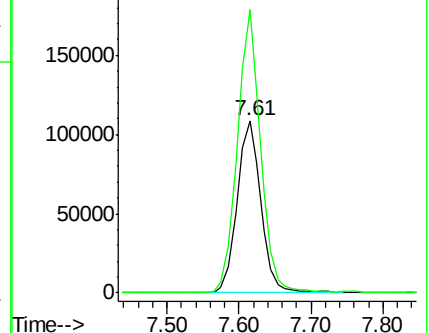
92 100

91 164.1 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#53

t-1,3-Dichloropropene

Concen: 46.944 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

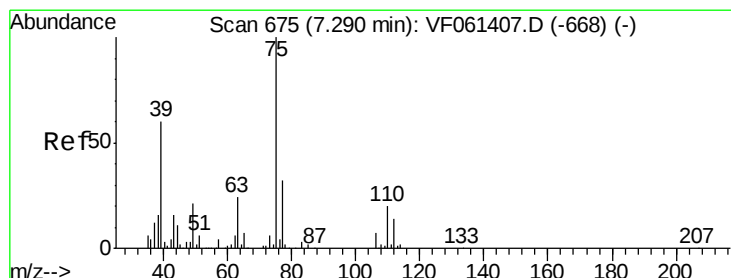
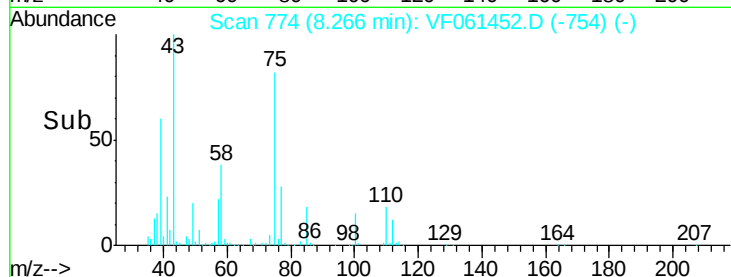
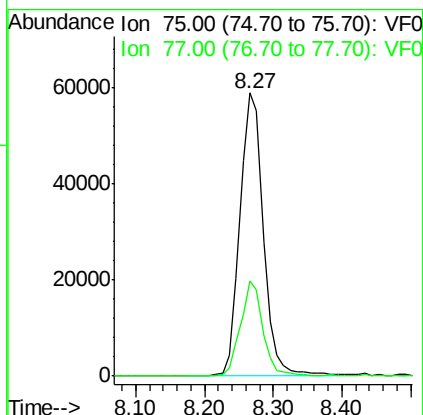
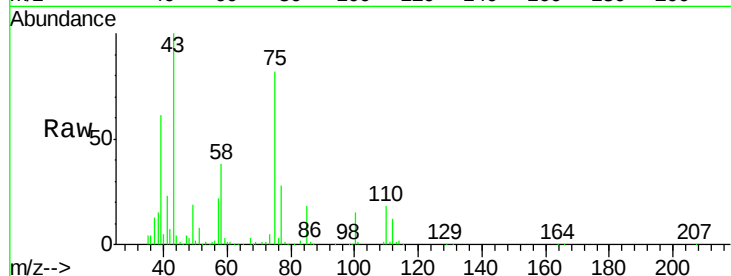
VSTDCCC050

Tot Ion: 75 Resp: 139748

Ion Ratio Lower Upper

75 100

77 33.8 24.4 36.6



#54

cis-1,3-Dichloropropene

Concen: 50.780 ug/l

RT: 7.29 min Scan# 675

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

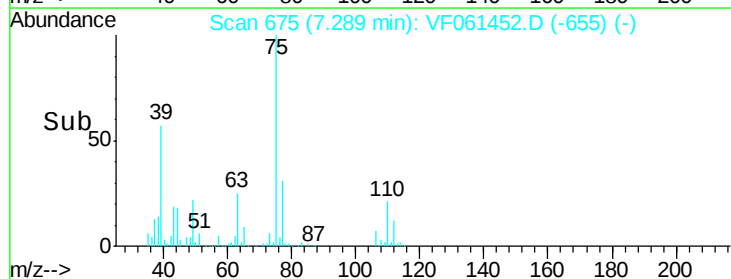
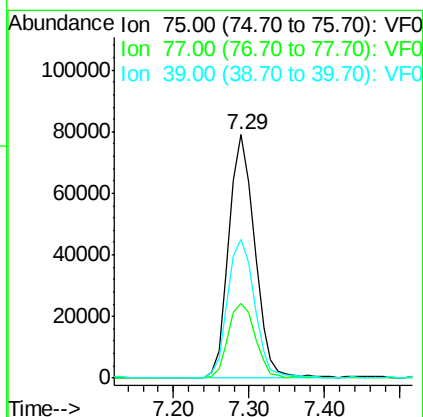
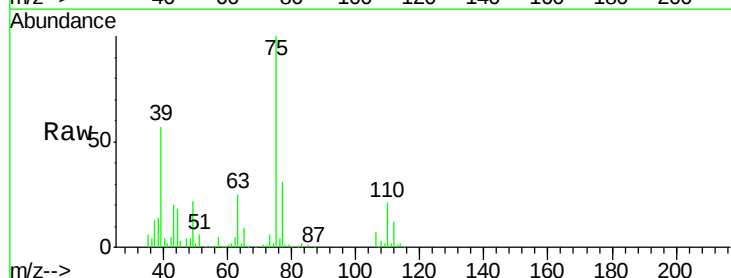
Tgt Ion: 75 Resp: 188953

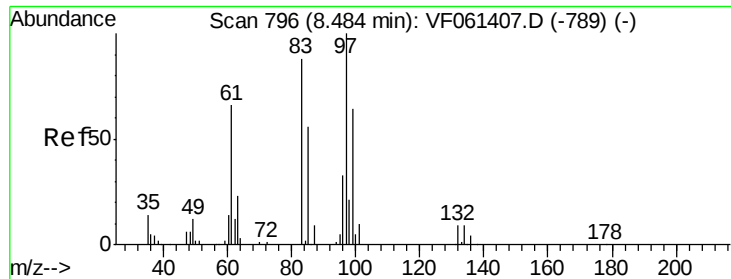
Ion Ratio Lower Upper

75 100

77 30.6 25.4 38.0

39 57.2 47.8 71.8





#55

1,1,2-Trichloroethane

Concen: 50.665 ug/l

RT: 8.48 min Scan# 796

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

Tot Ion: 97 Resp: 82263

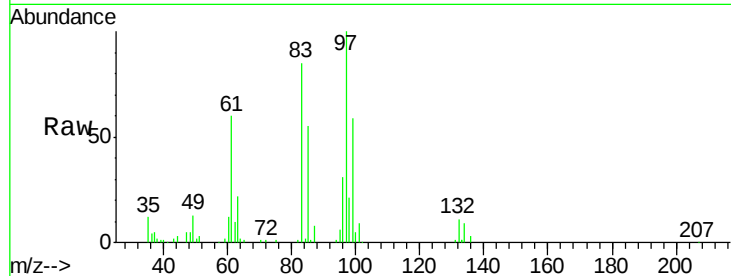
Ion	Ratio	Lower	Upper
97	100		
83	84.5	70.4	105.6
85	54.7	44.7	67.1
99	59.3	50.8	76.2

97 100

83 84.5 70.4 105.6

85 54.7 44.7 67.1

99 59.3 50.8 76.2



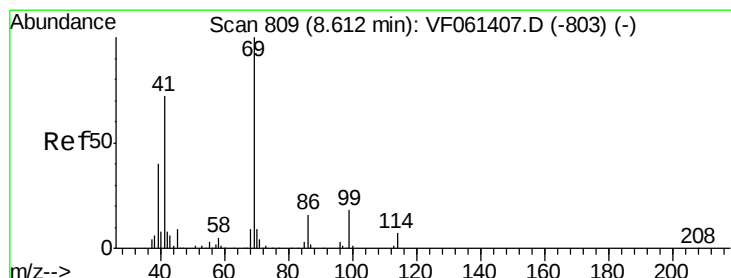
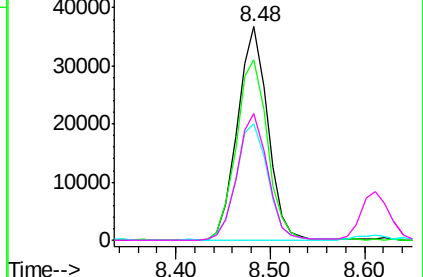
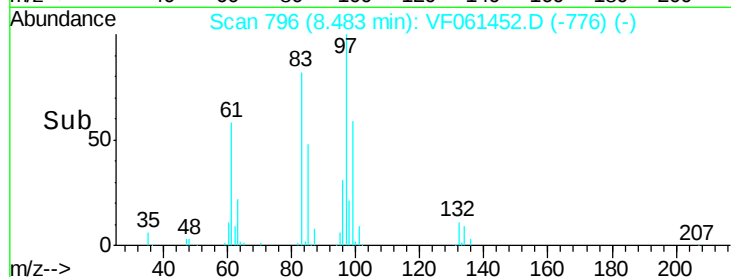
Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0

Time-->



#56

Ethyl methacrylate

Concen: 50.295 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

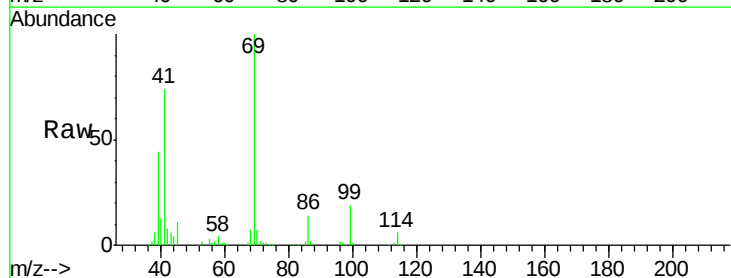
Tgt Ion: 69 Resp: 95008

Ion	Ratio	Lower	Upper
69	100		
41	73.6	57.5	86.3
39	43.6	32.0	48.0

69 100

41 73.6 57.5 86.3

39 43.6 32.0 48.0

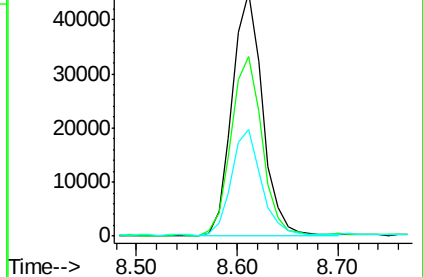
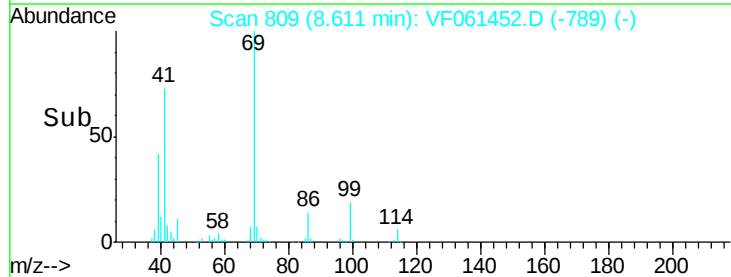


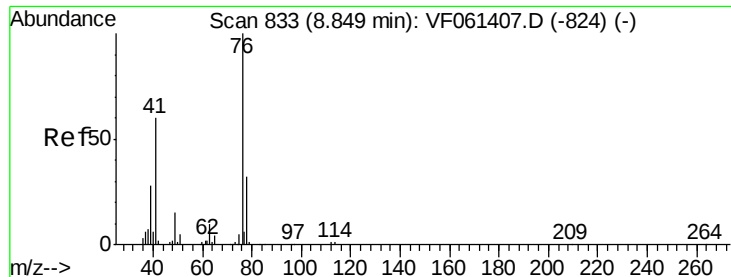
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Time-->





#57

1,3-Dichloropropane

Concen: 48.090 ug/l

RT: 8.84 min Scan# 832

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

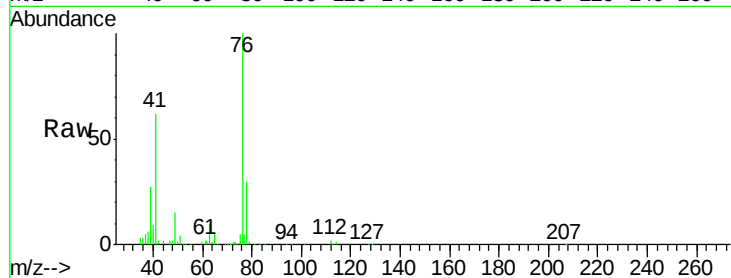
VSTDCCC050

Tot Ion: 76 Resp: 146354

Ion Ratio Lower Upper

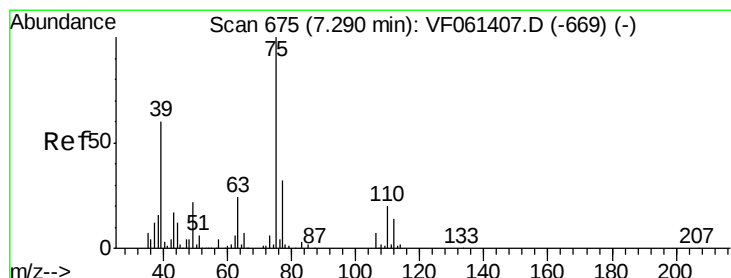
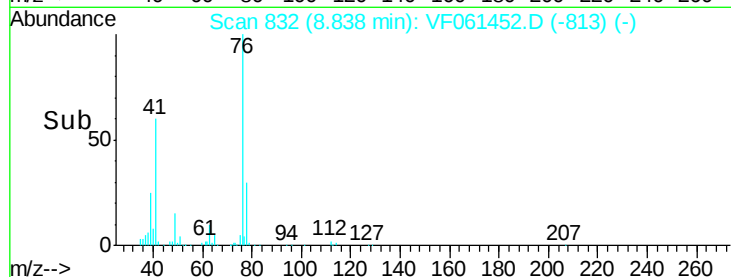
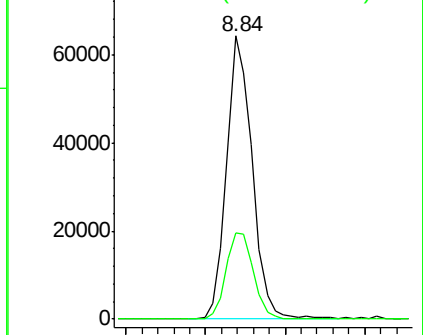
76 100

78 30.3 25.3 37.9



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: 246.906 ug/l

RT: 7.28 min Scan# 674

Delta R.T. -0.01 min

Lab File: VF061452.D

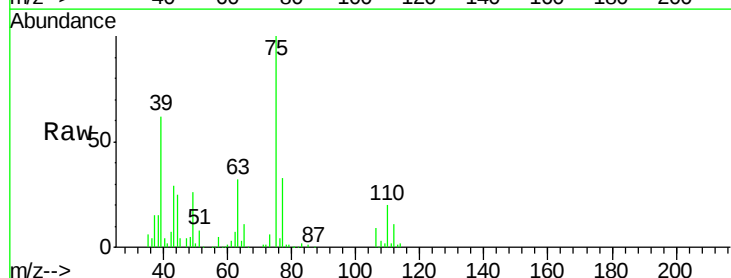
Acq: 18 Jan 2019 11:24

Tgt Ion: 63 Resp: 48833

Ion Ratio Lower Upper

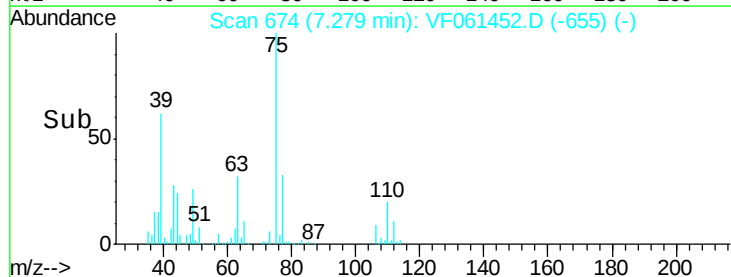
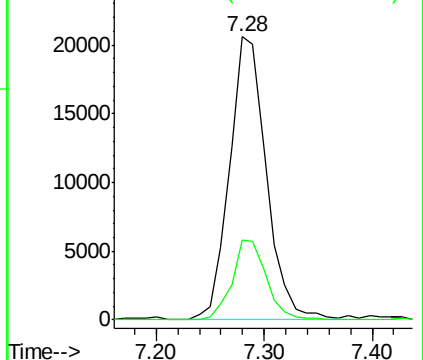
63 100

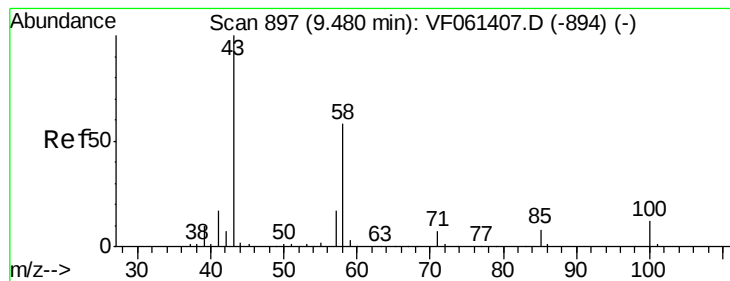
106 28.1 21.9 32.9



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#59

2-Hexanone

Concen: 277.585 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

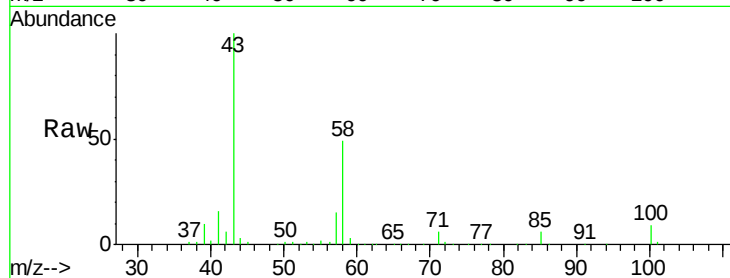
VSTDCCC050

Tot Ion: 43 Resp: 278564

Ion Ratio Lower Upper

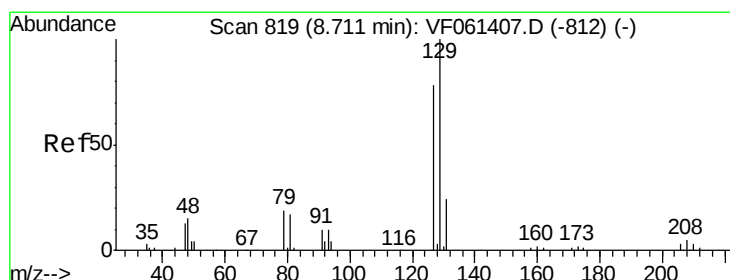
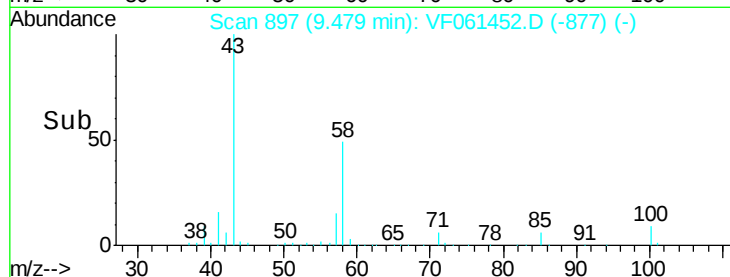
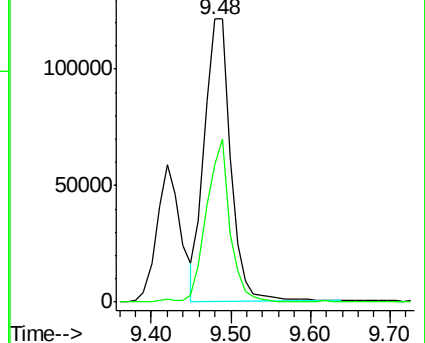
43 100

58 48.7 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#60

Dibromochloromethane

Concen: 48.107 ug/l

RT: 8.71 min Scan# 819

Delta R.T. -0.00 min

Lab File: VF061452.D

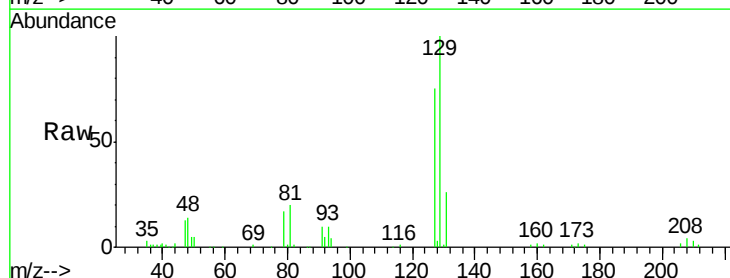
Acq: 18 Jan 2019 11:24

Tgt Ion:129 Resp: 114191

Ion Ratio Lower Upper

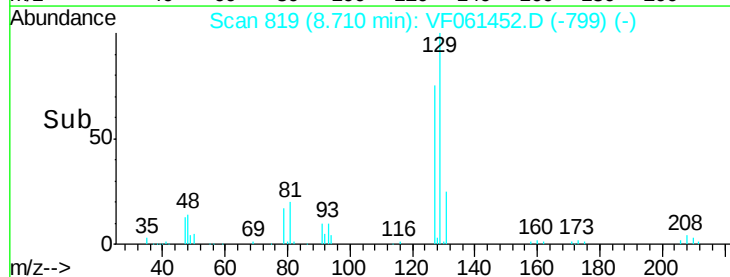
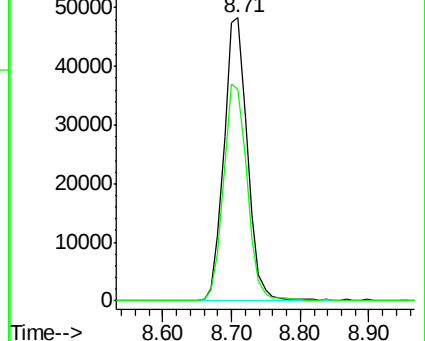
129 100

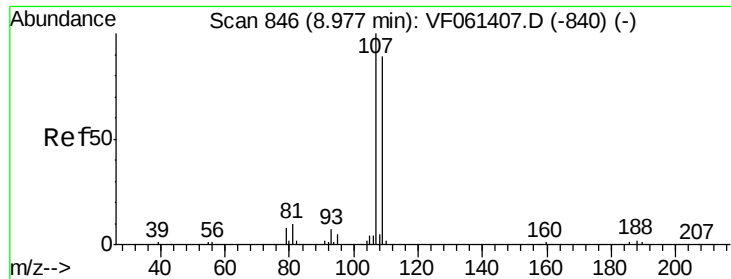
127 74.8 39.1 117.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#61

1,2-Dibromoethane

Concen: 45.900 ug/l

RT: 8.98 min Scan# 846

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

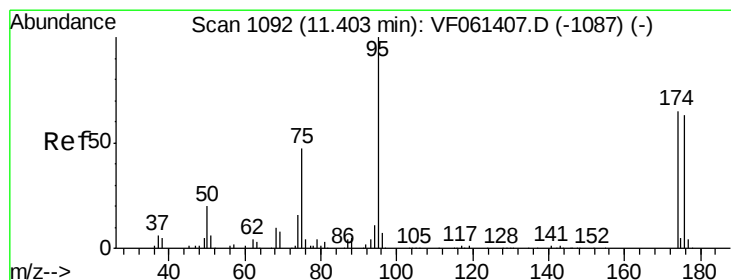
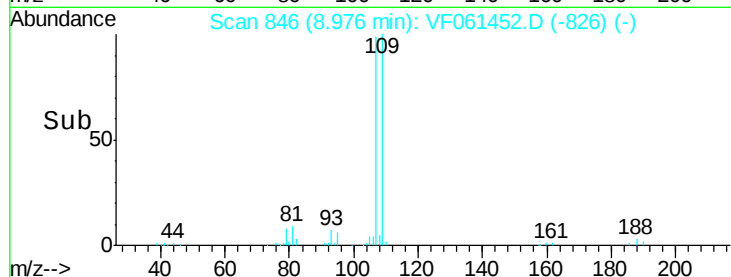
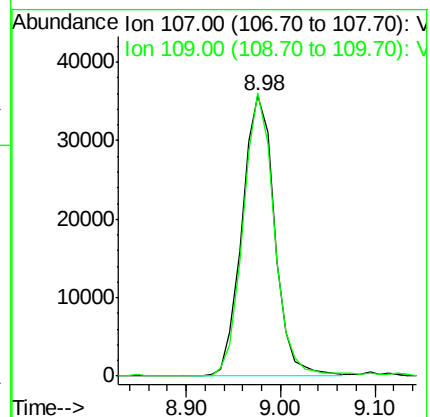
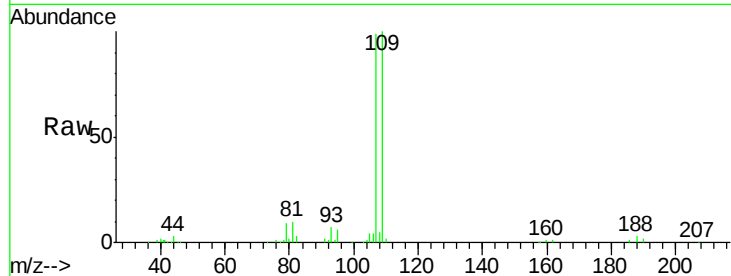
VSTDCCC050

Tot Ion:107 Resp: 85316

Ion Ratio Lower Upper

107 100

109 100.9 70.8 106.2



#62

4-Bromofluorobenzene

Concen: 49.489 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

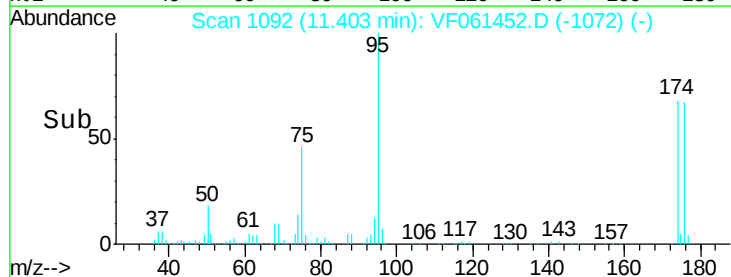
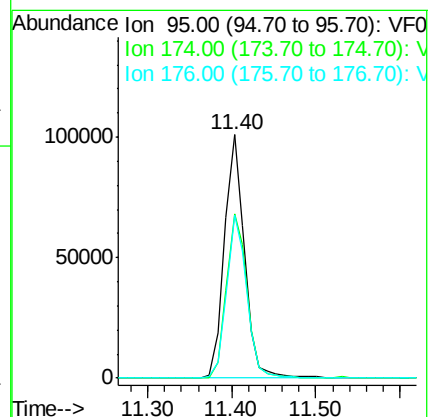
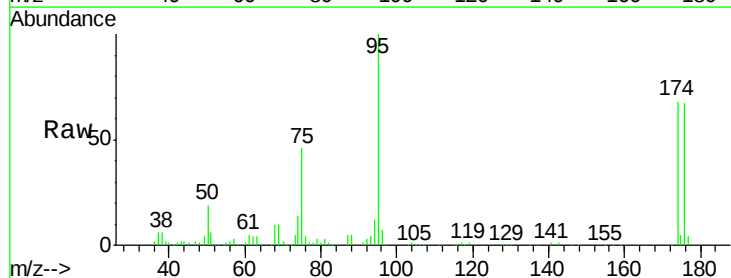
Tgt Ion: 95 Resp: 168231

Ion Ratio Lower Upper

95 100

174 67.5 0.0 130.4

176 67.1 0.0 126.2

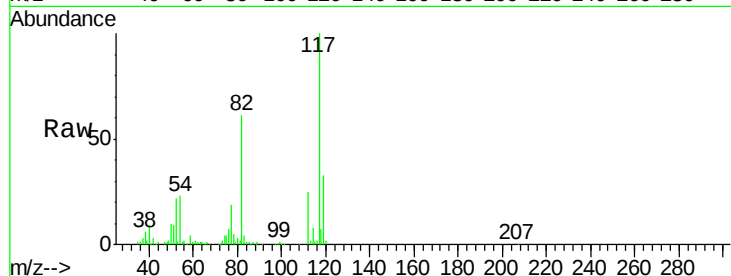




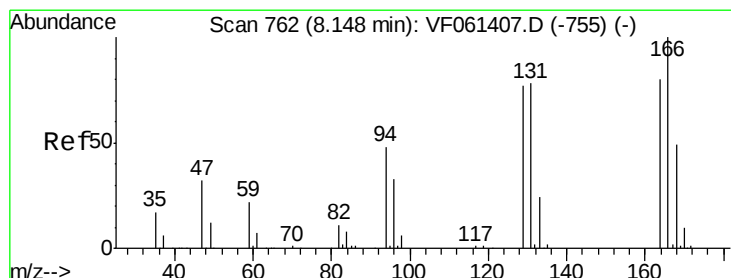
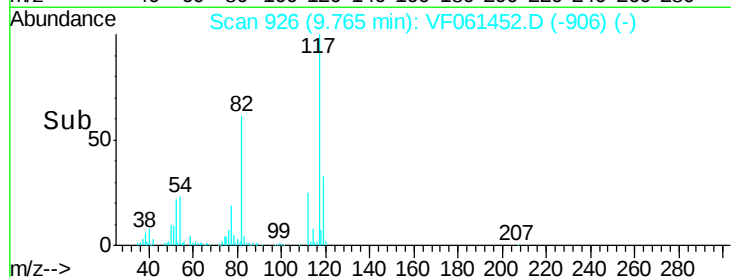
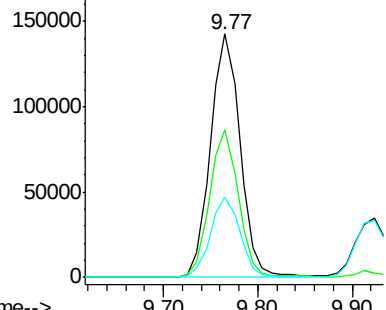
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:117 Resp: 310097
Ion Ratio Lower Upper
117 100
82 60.6 46.4 69.6
119 32.5 27.2 40.8

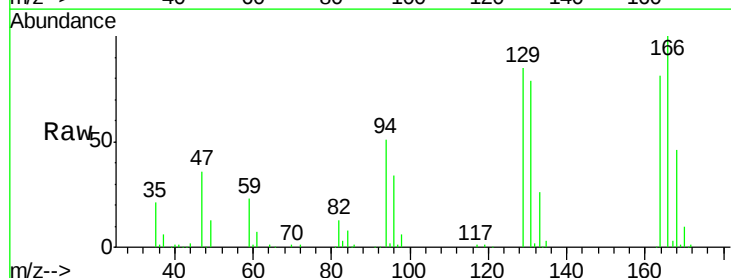


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

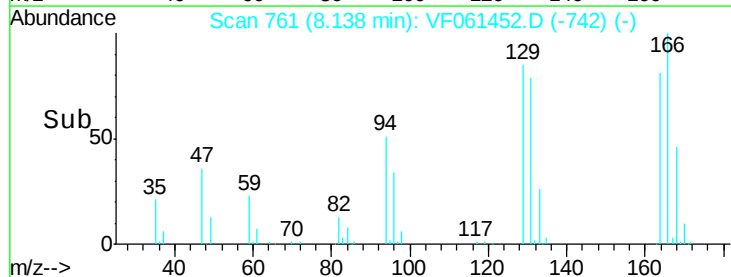
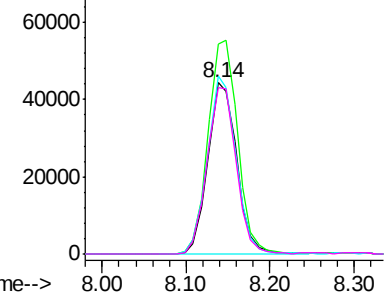


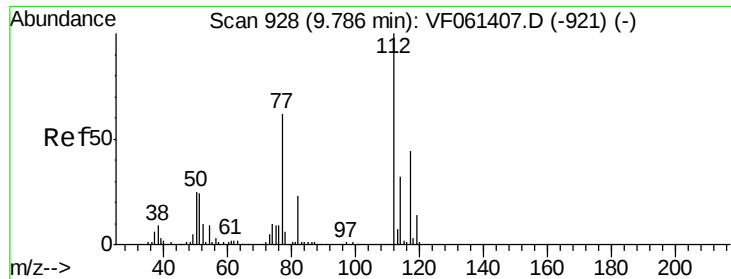
#64
Tetrachloroethene
Concen: 45.624 ug/l
RT: 8.14 min Scan# 761
Delta R.T. -0.01 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion:164 Resp: 106394
Ion Ratio Lower Upper
164 100
166 122.9 99.6 149.4
129 104.0 76.4 114.6
131 97.1 77.9 116.9



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

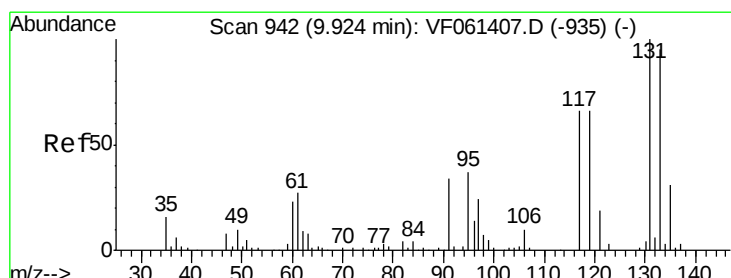
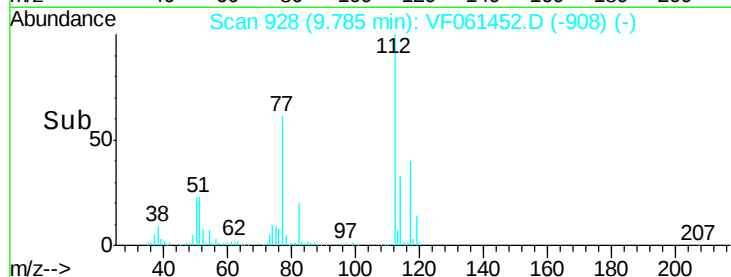
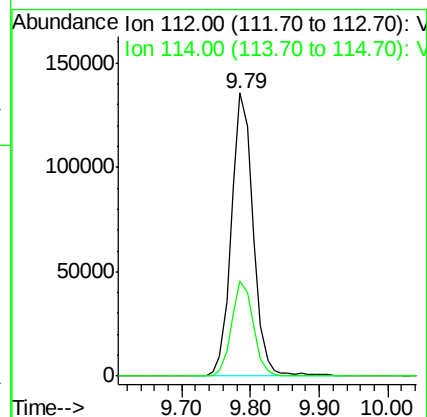
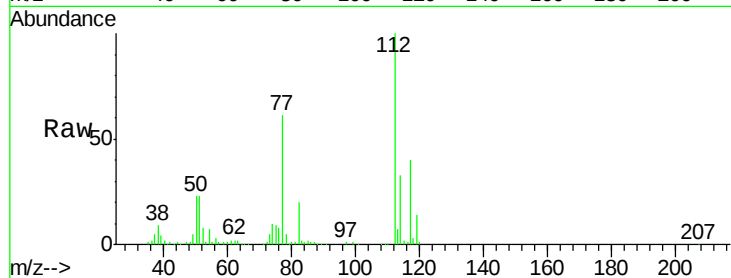




#65
Chlorobenzene
Concen: 47.304 ug/l
RT: 9.79 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

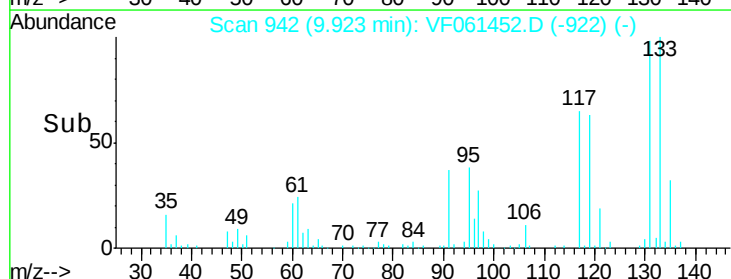
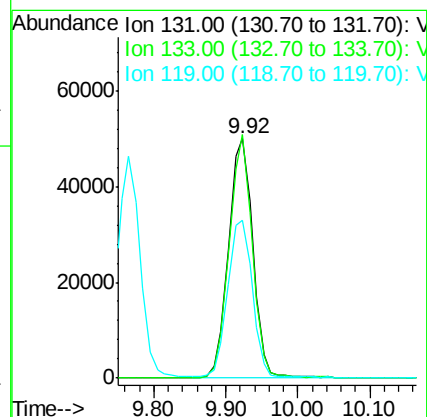
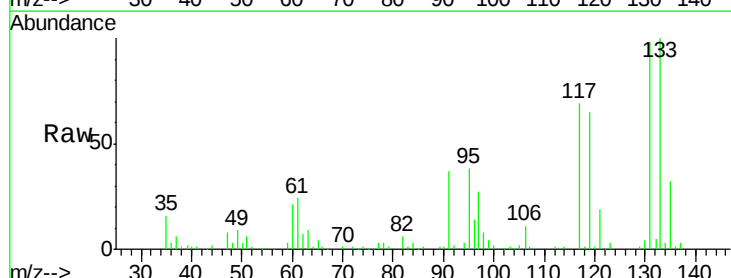
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

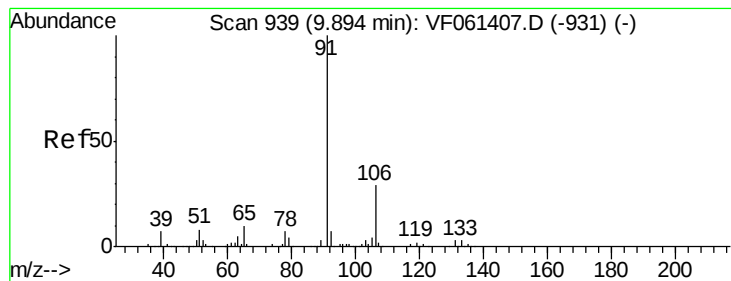
Tot Ion:112 Resp: 298300
Ion Ratio Lower Upper
112 100
114 33.4 25.4 38.0



#66
1,1,1,2-Tetrachloroethane
Concen: 46.788 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion:131 Resp: 117536
Ion Ratio Lower Upper
131 100
133 101.7 47.4 142.2
119 65.9 33.1 99.3





#67

Ethyl Benzene

Concen: 47.848 ug/l

RT: 9.88 min Scan# 938

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

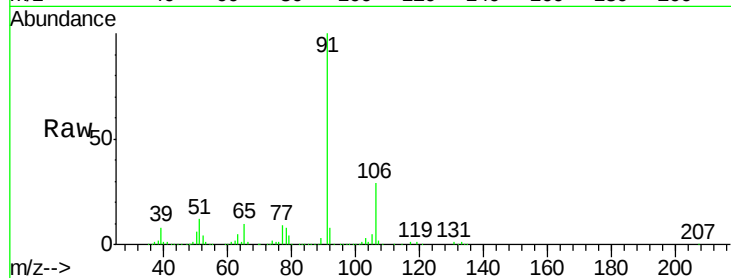
VSTDCCC050

Tot Ion: 91 Resp: 551279

Ion Ratio Lower Upper

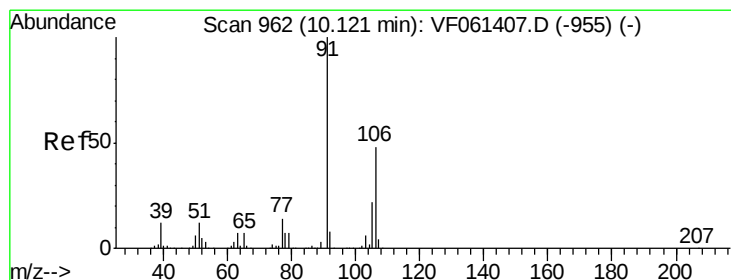
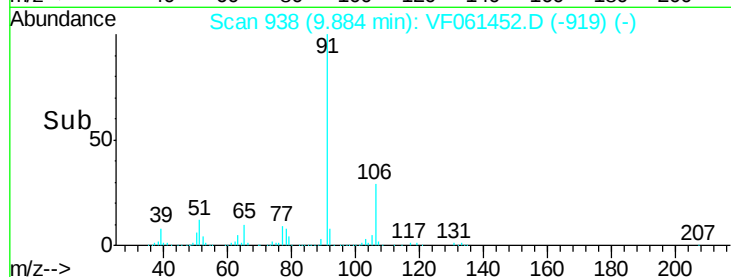
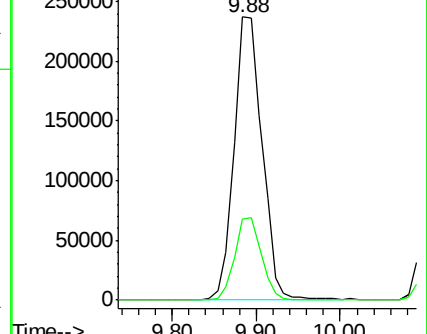
91 100

106 28.6 23.1 34.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 90.618 ug/l

RT: 10.12 min Scan# 962

Delta R.T. -0.00 min

Lab File: VF061452.D

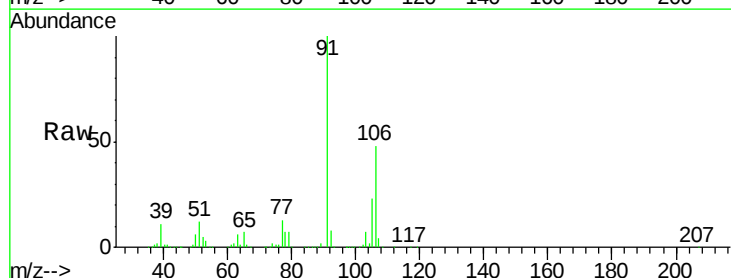
Acq: 18 Jan 2019 11:24

Tgt Ion: 106 Resp: 375511

Ion Ratio Lower Upper

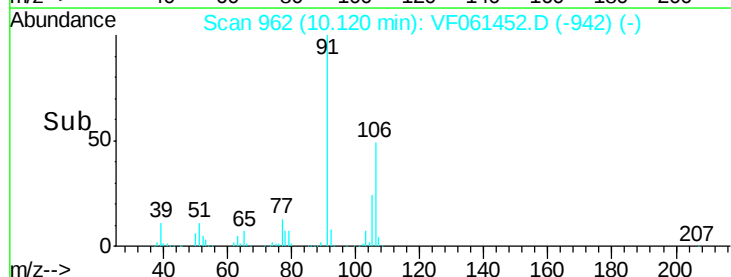
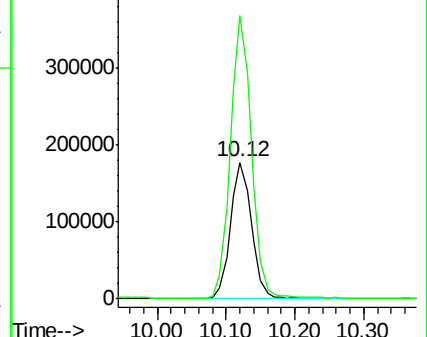
106 100

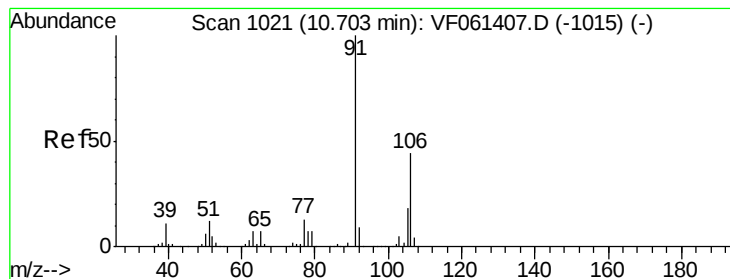
91 207.2 166.2 249.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#69

o-Xylene

Concen: 46.619 ug/l

RT: 10.70 min Scan# 1021

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

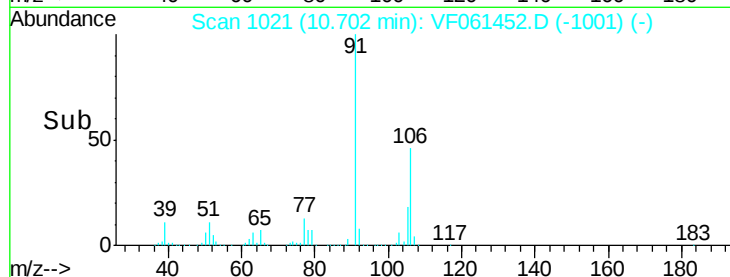
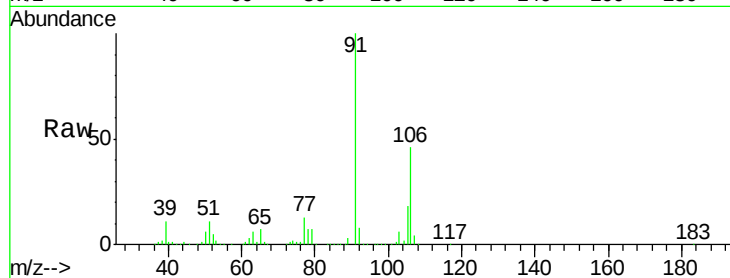
VSTDCCC050

Tot Ion:106 Resp: 209377

Ion Ratio Lower Upper

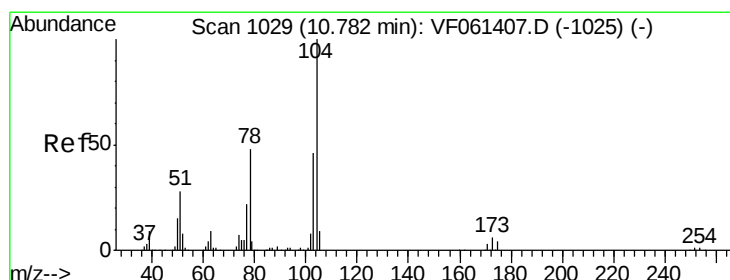
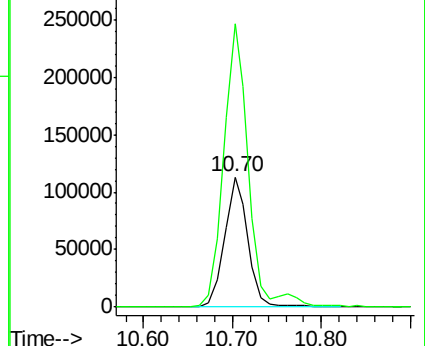
106 100

91 217.7 113.3 339.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#70

Styrene

Concen: 46.367 ug/l

RT: 10.78 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

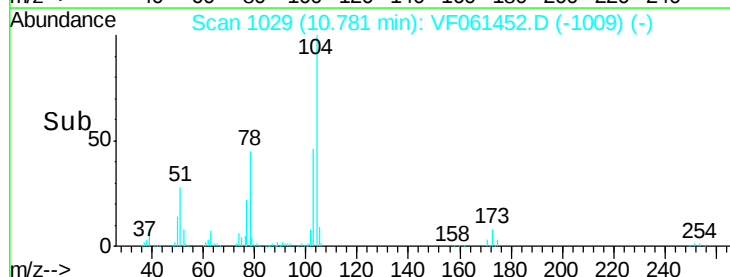
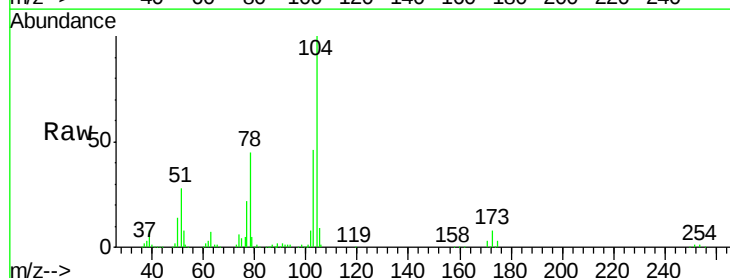
Tgt Ion:104 Resp: 285051

Ion Ratio Lower Upper

104 100

78 45.3 38.8 58.2

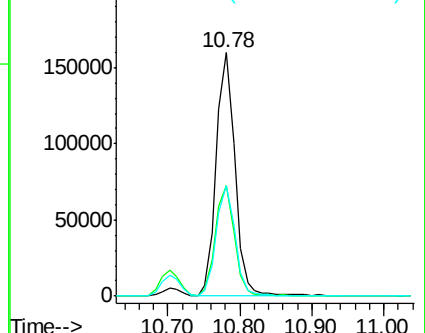
103 45.6 37.0 55.6

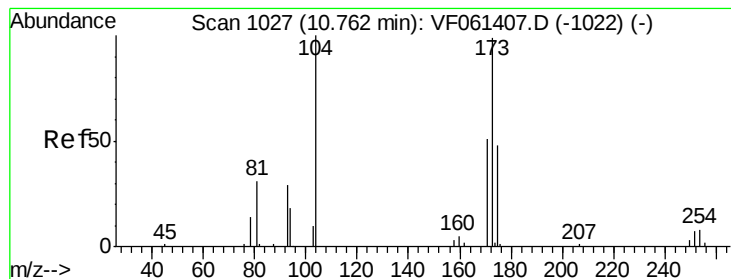


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 51.725 ug/l

RT: 10.76 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

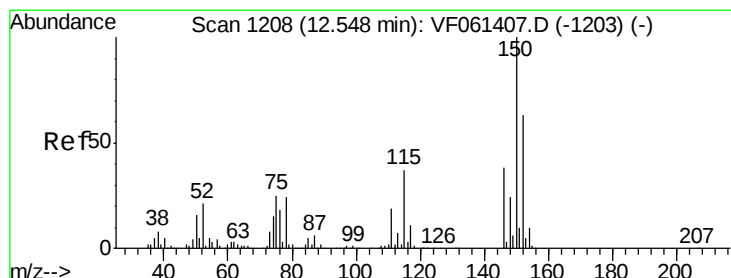
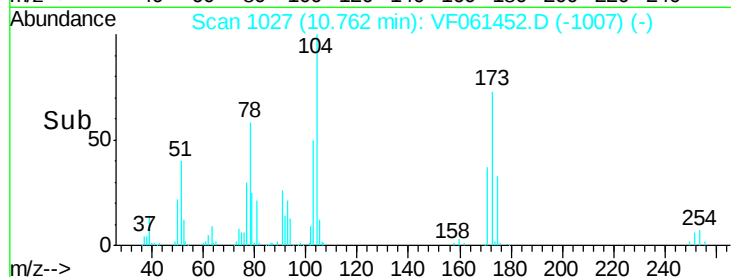
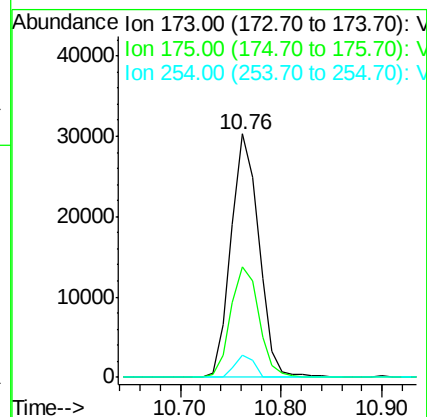
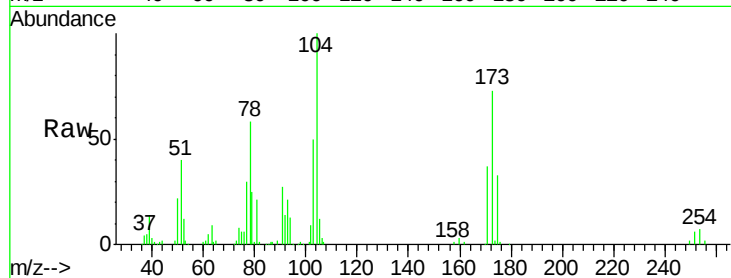
Tot Ion:173 Resp: 58382

Ion Ratio Lower Upper

173 100

175 45.1 24.1 72.4

254 8.9 0.0 0.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

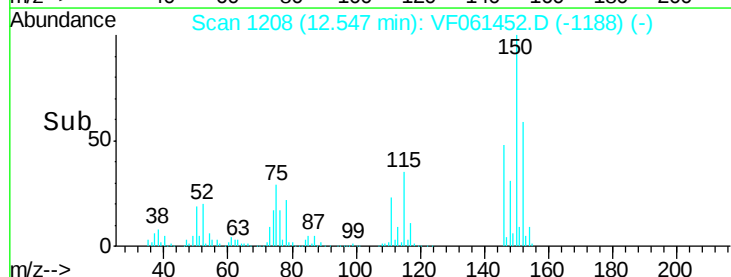
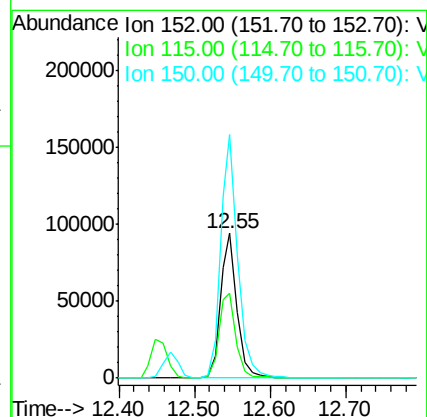
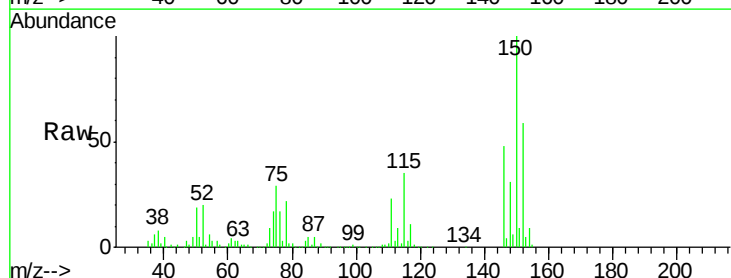
Tgt Ion:152 Resp: 143854

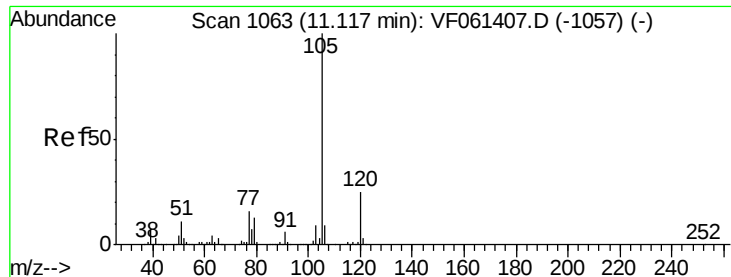
Ion Ratio Lower Upper

152 100

115 58.3 30.0 90.0

150 168.3 0.0 321.4





#73

Isopropylbenzene

Concen: 52.911 ug/l

RT: 11.12 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

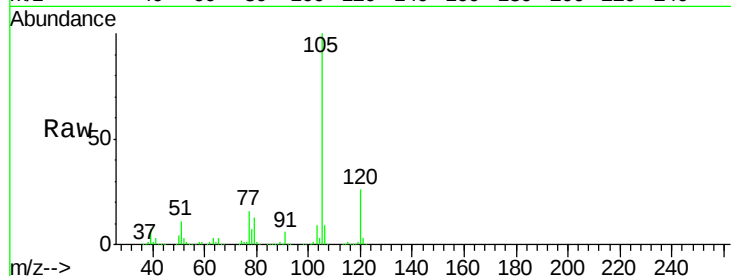
VSTDCCC050

Tot Ion:105 Resp: 619060

Ion Ratio Lower Upper

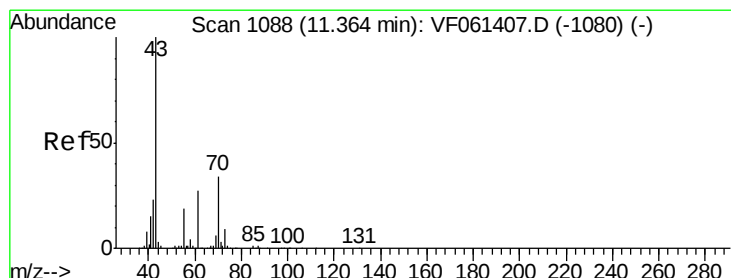
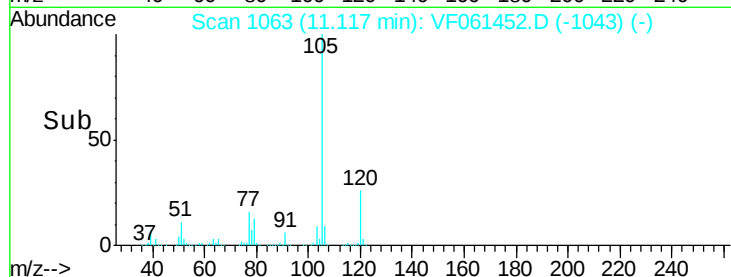
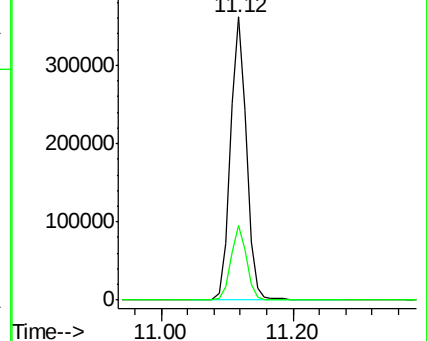
105 100

120 26.3 12.6 37.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 56.369 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Tgt Ion: 43 Resp: 155950

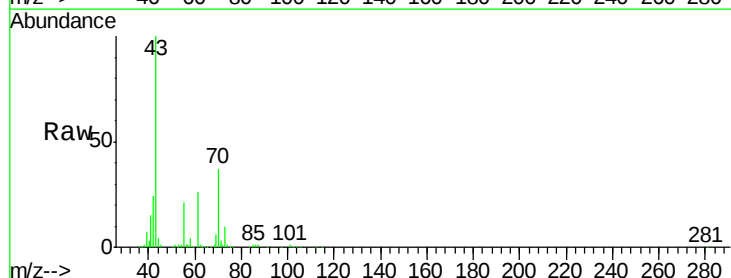
Ion Ratio Lower Upper

43 100

70 37.1 27.6 41.4

55 21.1 15.4 23.2

61 26.5 21.8 32.6

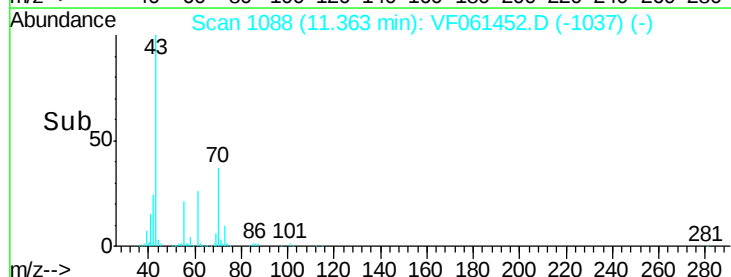
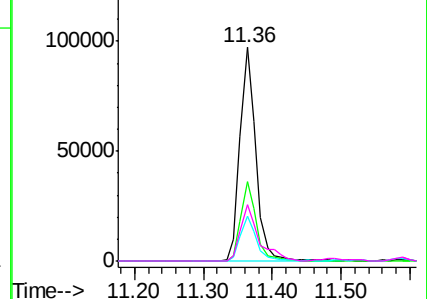


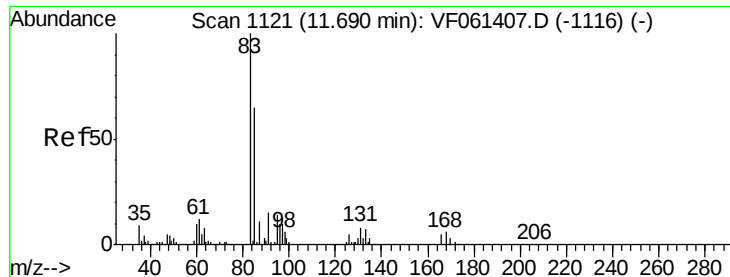
Abundance Ion 43.00 (42.70 to 43.70): VF0

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





#75

1,1,2,2-Tetrachloroethane

Concen: 53.628 ug/l

RT: 11.69 min Scan# 1121

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

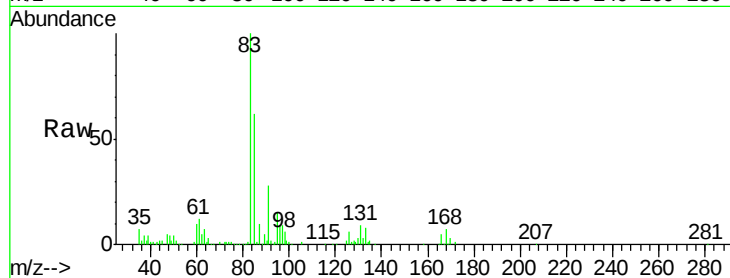
Tot Ion: 83 Resp: 111777

Ion Ratio Lower Upper

83 100

131 8.7 4.0 12.2

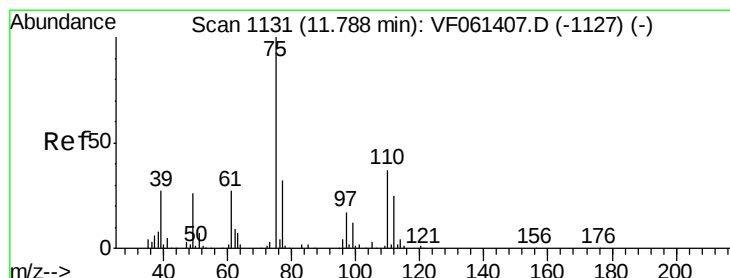
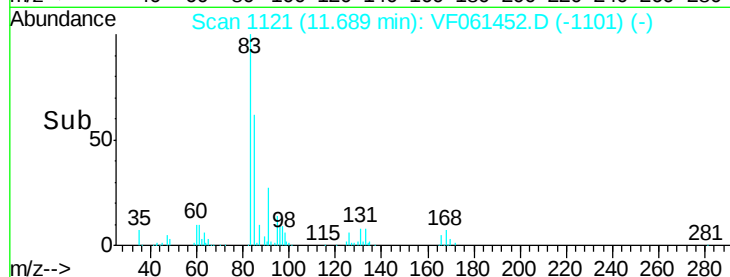
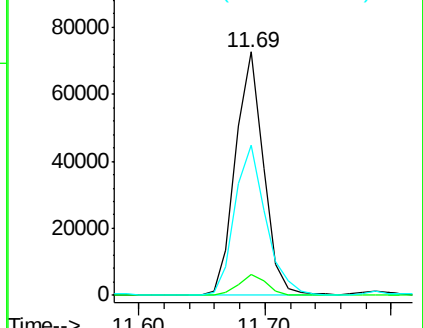
85 61.9 32.7 98.1



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: 50.645 ug/l

RT: 11.79 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF061452.D

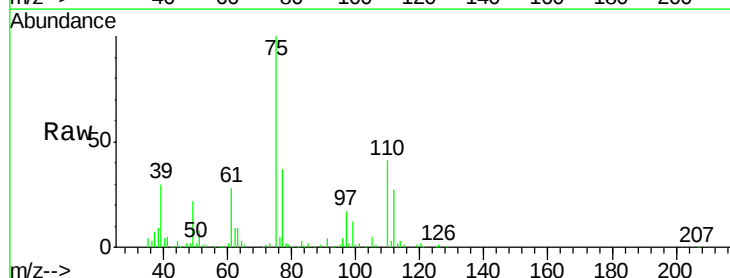
Acq: 18 Jan 2019 11:24

Tgt Ion: 75 Resp: 75850

Ion Ratio Lower Upper

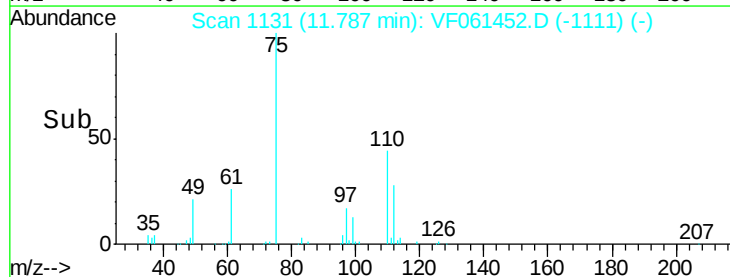
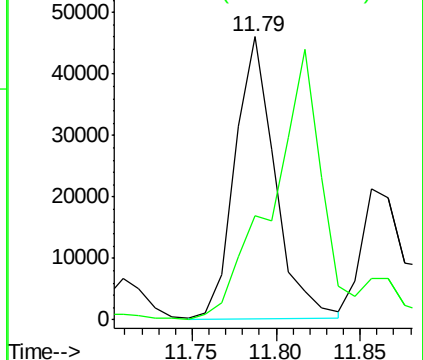
75 100

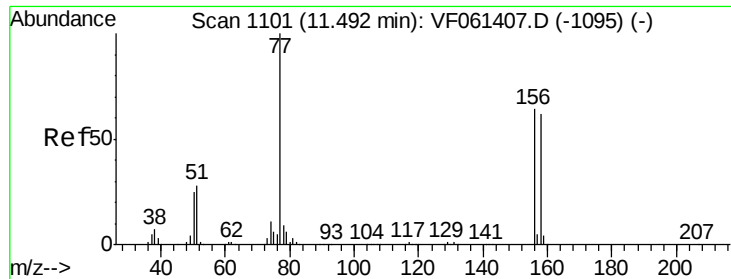
77 36.7 16.1 48.3



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 52.214 ug/l

RT: 11.49 min Scan# 1101

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

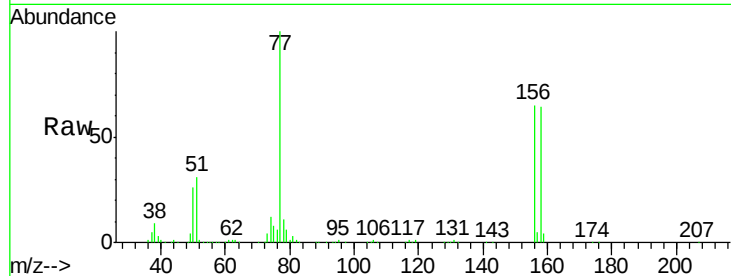
Tot Ion:156 Resp: 129017

Ion Ratio Lower Upper

156 100

77 154.8 78.3 234.9

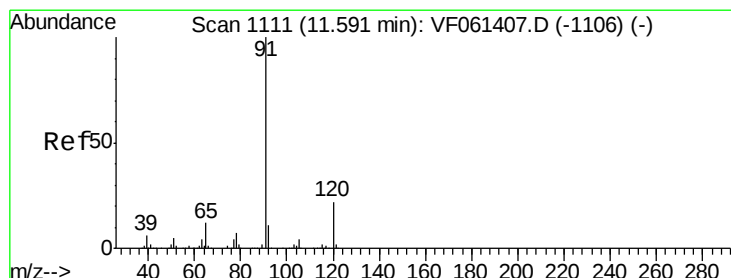
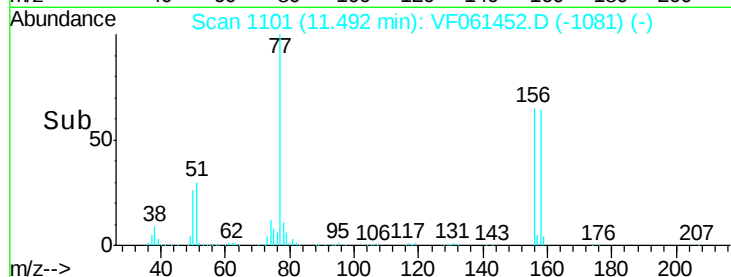
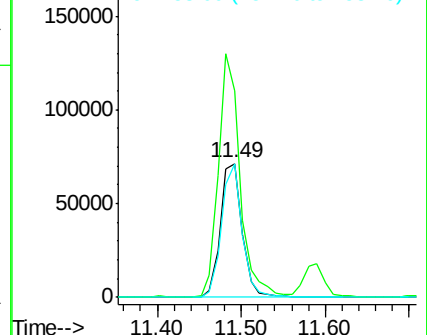
158 99.4 48.9 146.7



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: 49.542 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VF061452.D

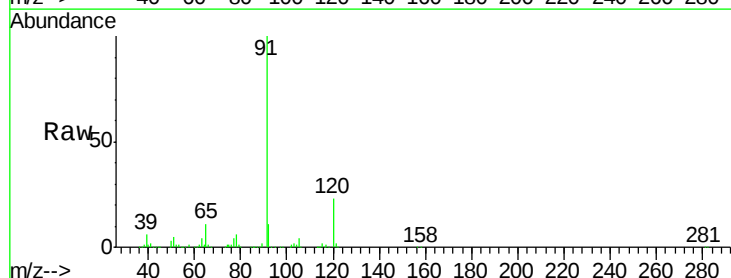
Acq: 18 Jan 2019 11:24

Tgt Ion: 91 Resp: 706771

Ion Ratio Lower Upper

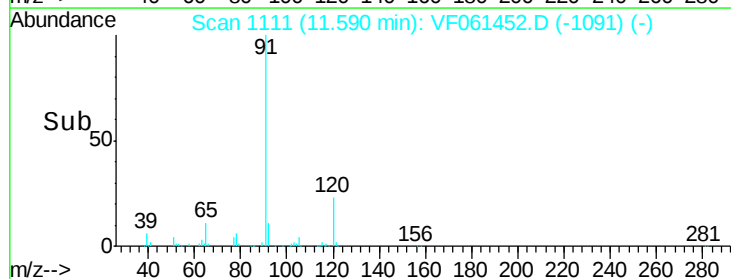
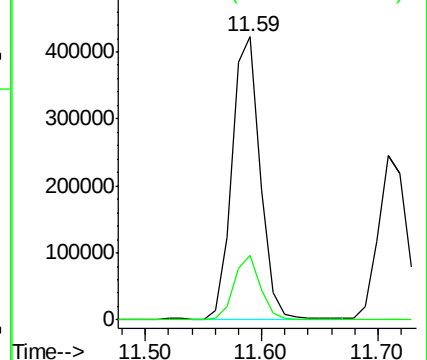
91 100

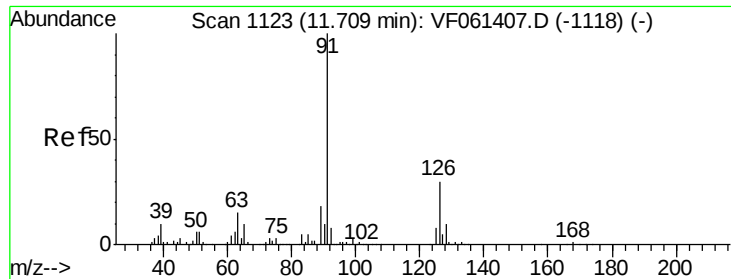
120 22.6 10.9 32.6



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 50.392 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

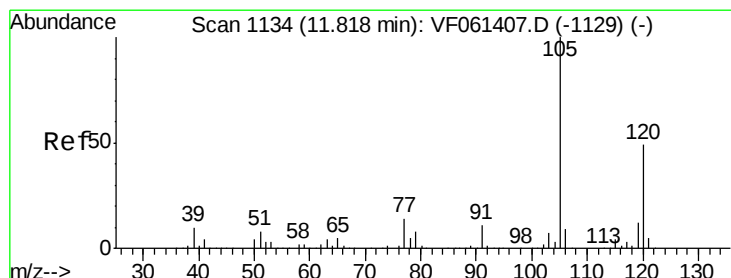
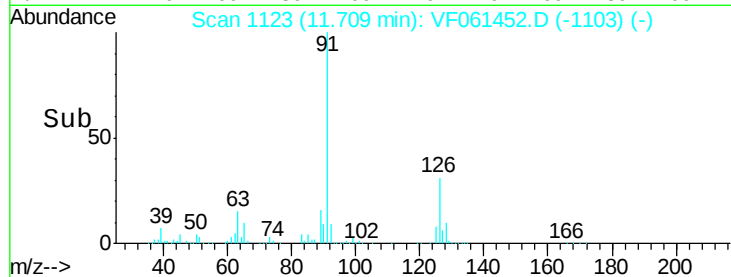
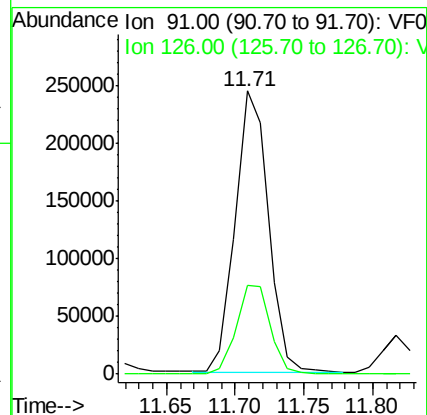
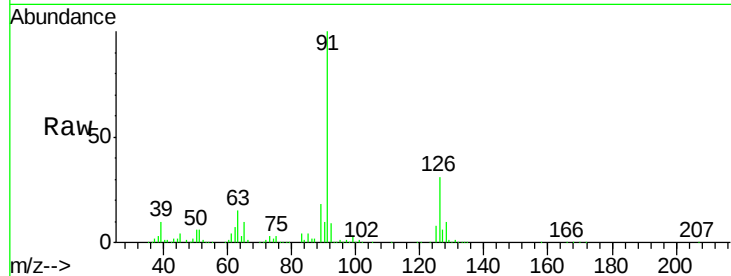
VSTDCCC050

Tot Ion: 91 Resp: 409071

Ion Ratio Lower Upper

91 100

126 31.3 15.0 45.1



#80

1,3,5-Trimethylbenzene

Concen: 49.923 ug/l

RT: 11.82 min Scan# 1134

Delta R.T. -0.00 min

Lab File: VF061452.D

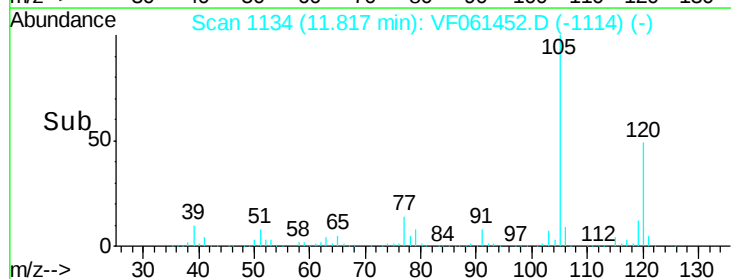
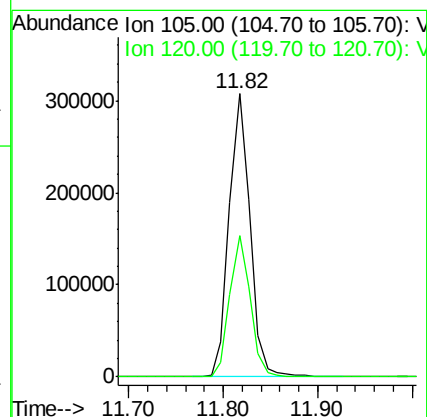
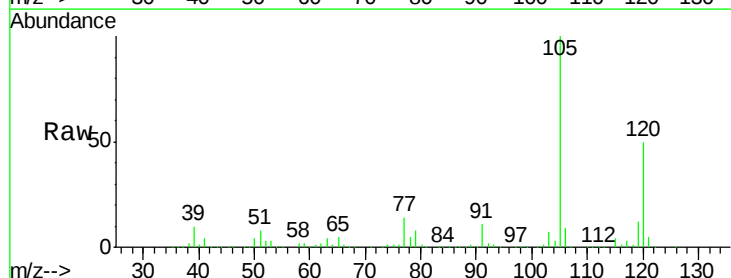
Acq: 18 Jan 2019 11:24

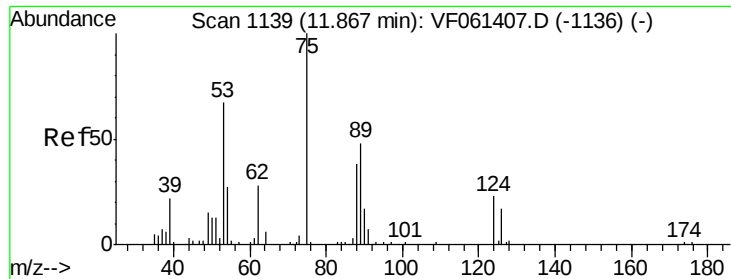
Tgt Ion:105 Resp: 471376

Ion Ratio Lower Upper

105 100

120 50.0 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 71.662 ug/l

RT: 11.86 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

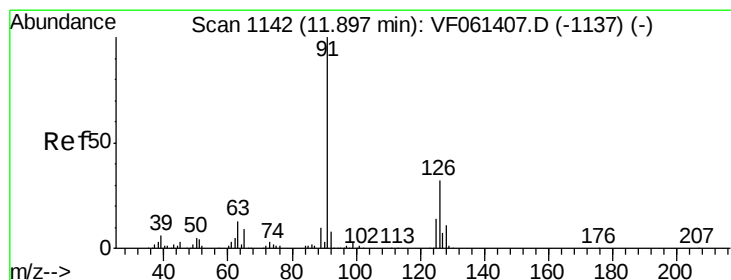
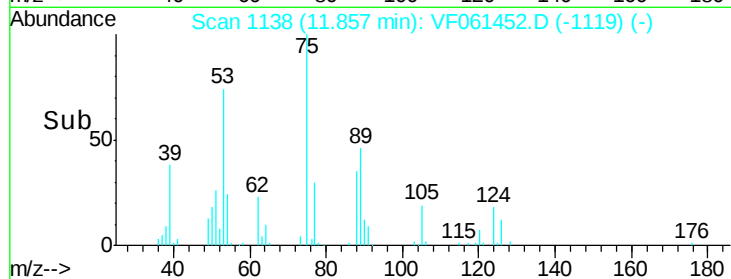
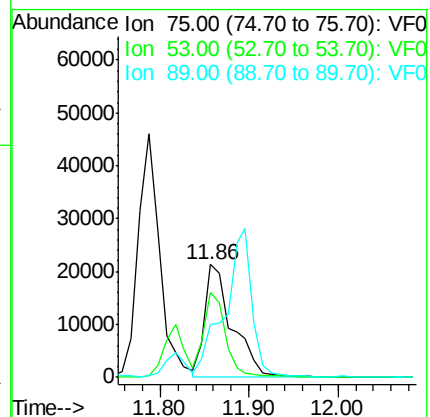
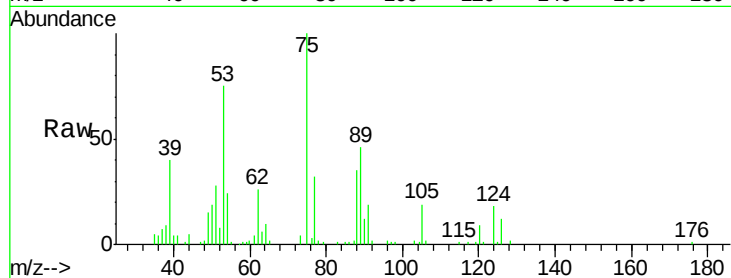
Tot Ion: 75 Resp: 46656

Ion Ratio Lower Upper

75 100

53 75.0 57.8 86.6

89 46.4 40.7 61.1



#82

4-Chlorotoluene

Concen: 51.416 ug/l

RT: 11.90 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF061452.D

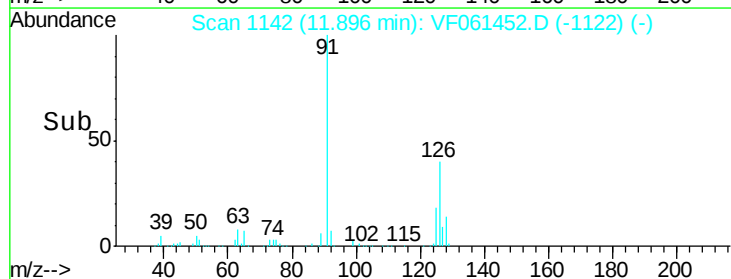
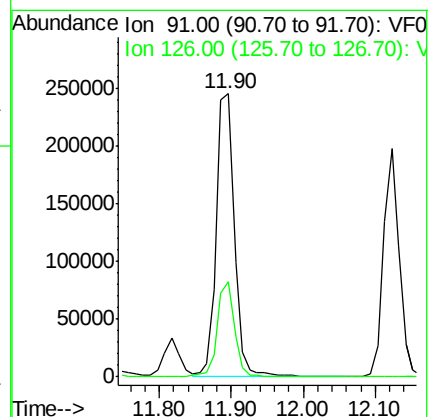
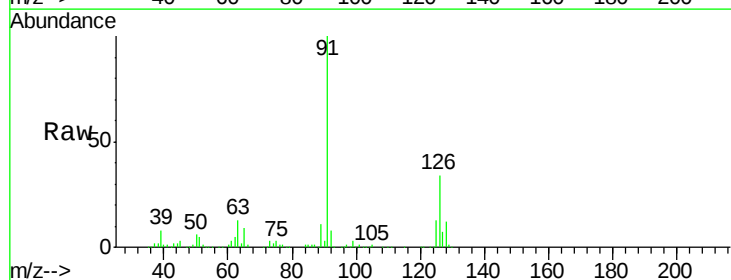
Acq: 18 Jan 2019 11:24

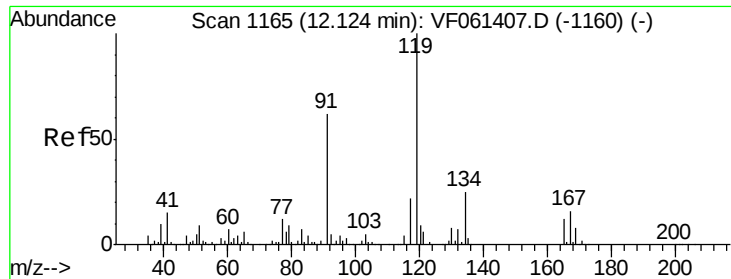
Tgt Ion: 91 Resp: 421183

Ion Ratio Lower Upper

91 100

126 33.7 16.0 47.9

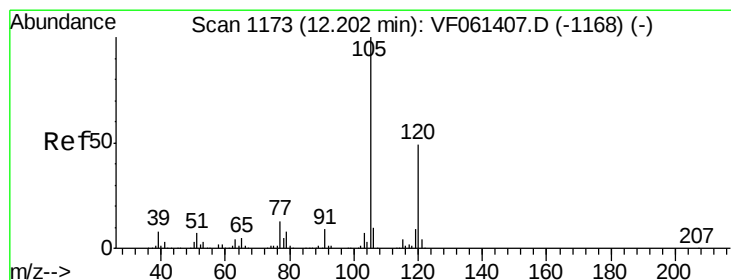
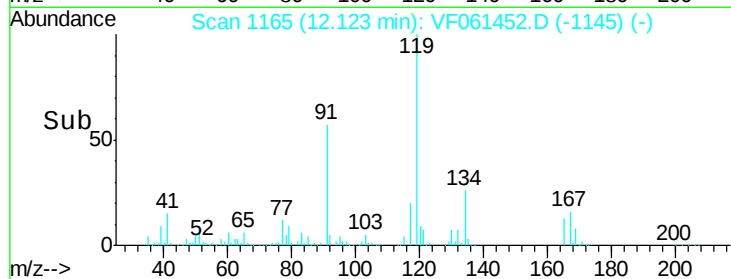
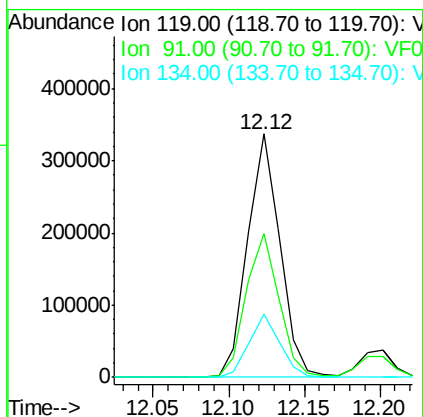
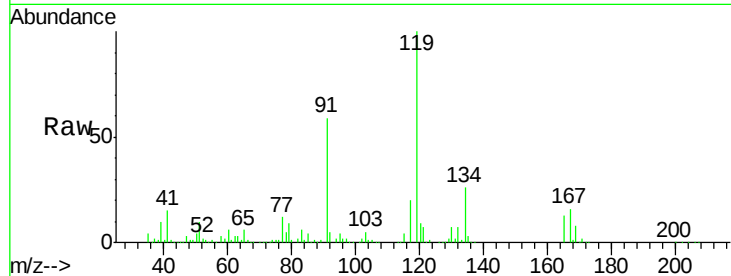




#83
 tert-Butylbenzene
 Concen: 51.973 ug/l
 RT: 12.12 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

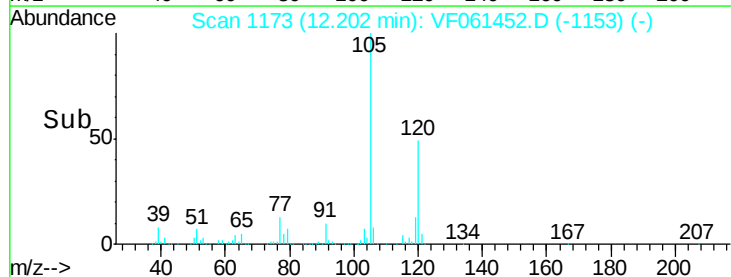
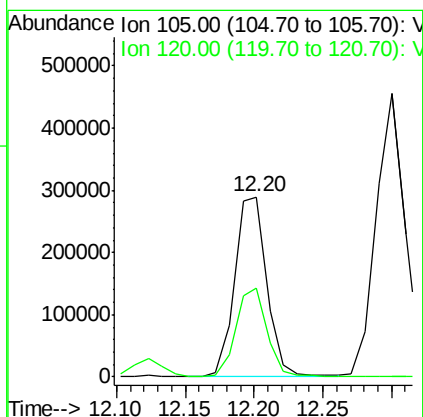
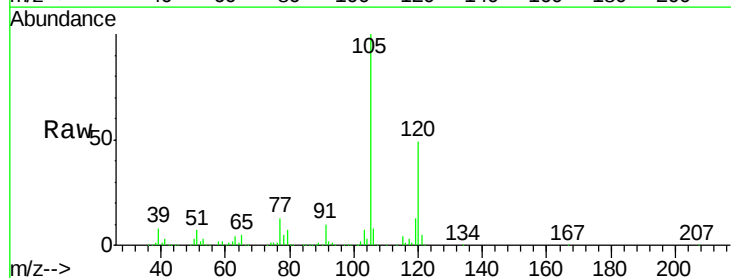
Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

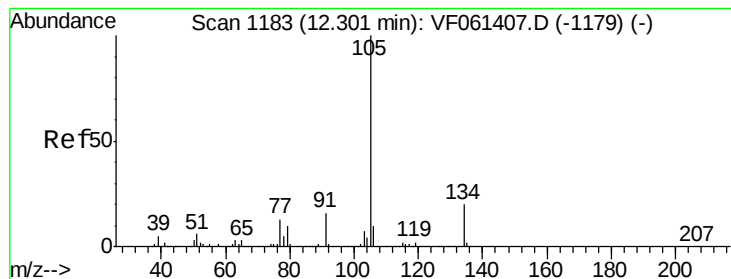
Tot Ion:119 Resp: 507919
 Ion Ratio Lower Upper
 119 100
 91 58.8 31.3 93.8
 134 25.7 12.4 37.0



#84
 1,2,4-Trimethylbenzene
 Concen: 48.621 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion:105 Resp: 472880
 Ion Ratio Lower Upper
 105 100
 120 49.2 24.9 74.6





#85

sec-Butylbenzene

Concen: 50.618 ug/l

RT: 12.30 min Scan# 1183

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

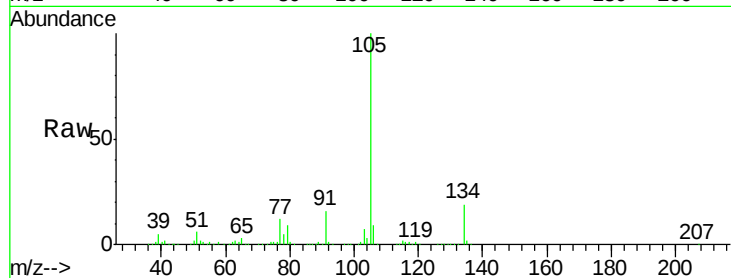
VSTDCCC050

Tot Ion:105 Resp: 671773

Ion Ratio Lower Upper

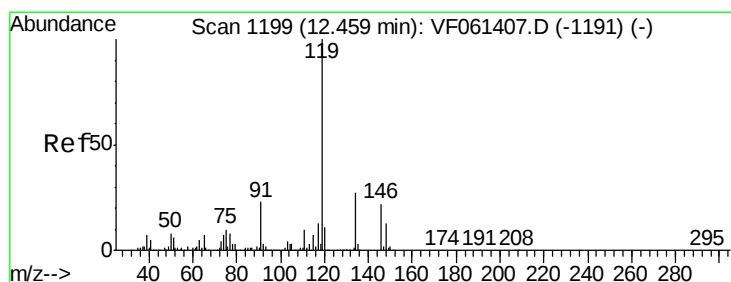
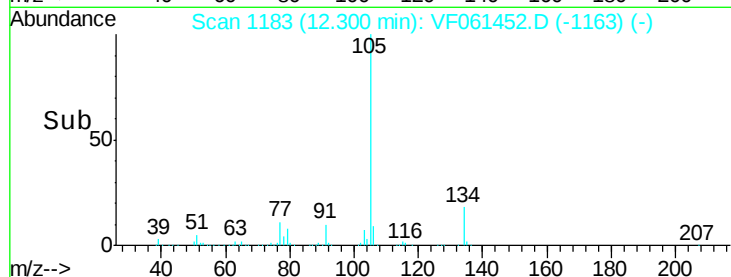
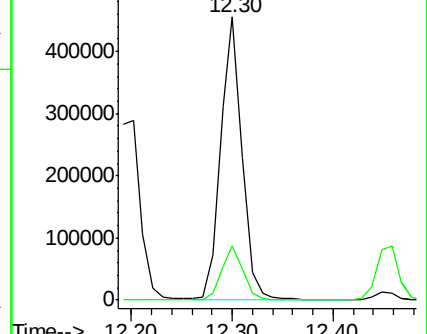
105 100

134 19.2 10.0 30.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 50.101 ug/l

RT: 12.45 min Scan# 1198

Delta R.T. -0.01 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

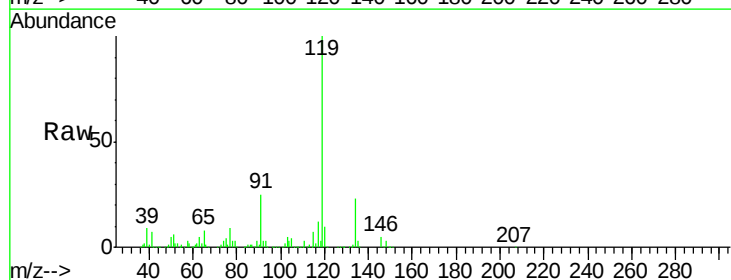
Tgt Ion:119 Resp: 545825

Ion Ratio Lower Upper

119 100

134 23.5 13.4 40.2

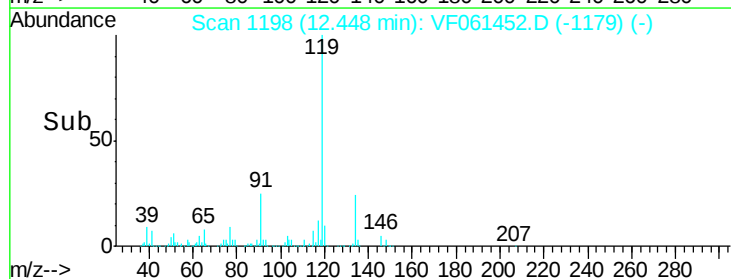
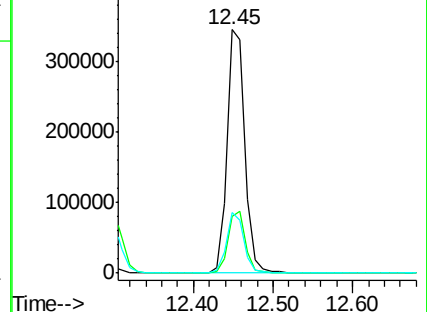
91 25.1 11.4 34.2



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): VF0





#87

1,3-Dichlorobenzene

Concen: 48.265 ug/l

RT: 12.47 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

Instrument :

MSVOA_F

ClientSampleId :

VSTDCCC050

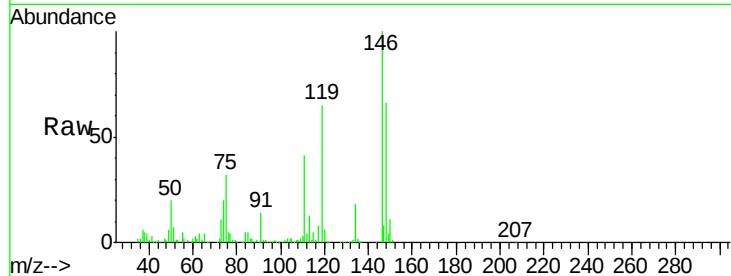
Tot Ion:146 Resp: 237972

Ion Ratio Lower Upper

146 100

111 40.8 21.1 63.4

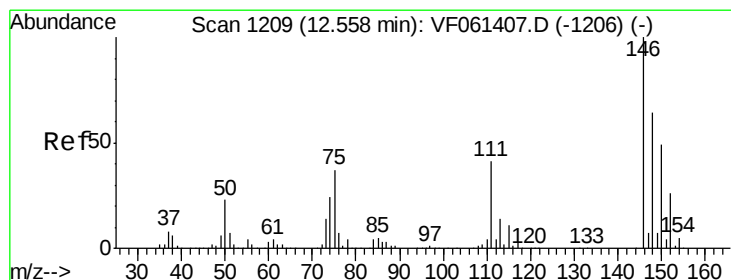
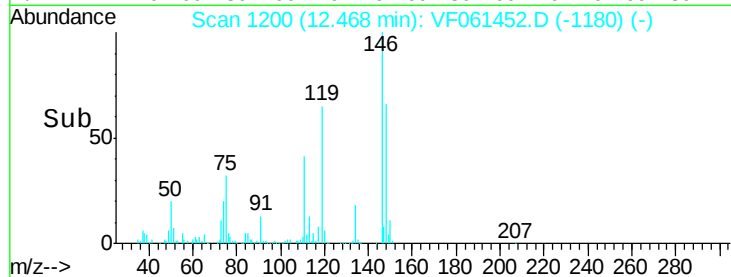
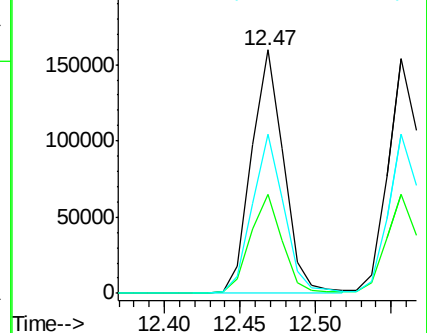
148 65.5 32.9 98.6



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



#88

1,4-Dichlorobenzene

Concen: 49.566 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. -0.00 min

Lab File: VF061452.D

Acq: 18 Jan 2019 11:24

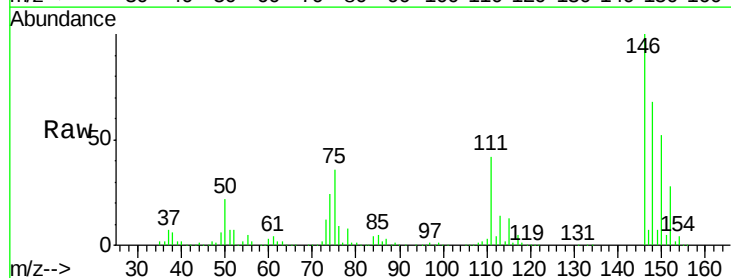
Tgt Ion:146 Resp: 231433

Ion Ratio Lower Upper

146 100

111 42.0 20.8 62.2

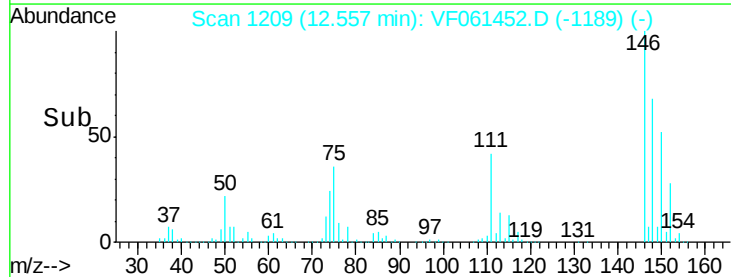
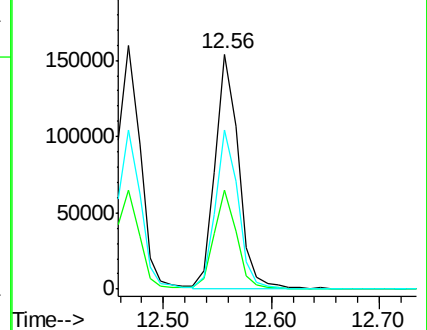
148 67.9 32.1 96.5

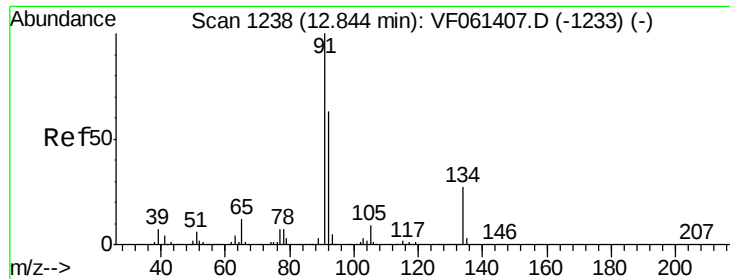


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

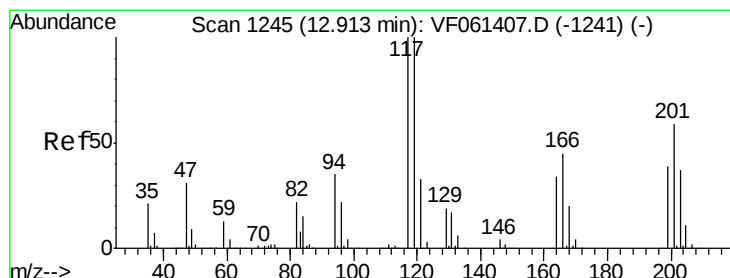
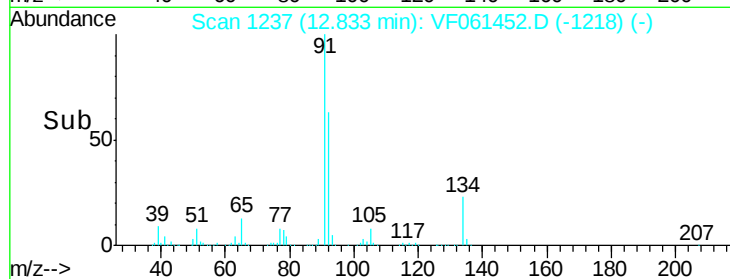
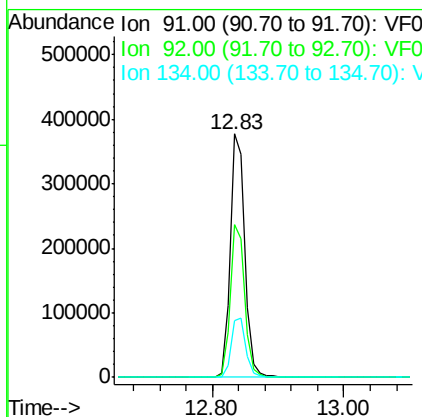
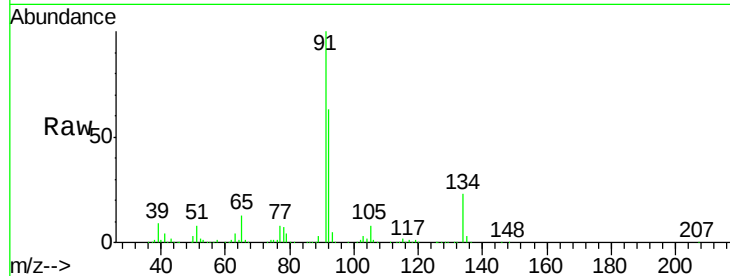




#89
n-Butylbenzene
Concen: 51.934 ug/l
RT: 12.83 min Scan# 1237
Delta R.T. -0.01 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

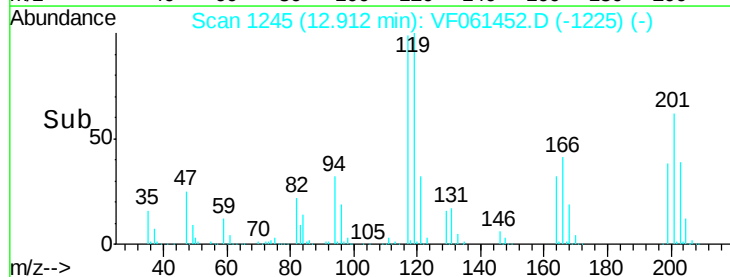
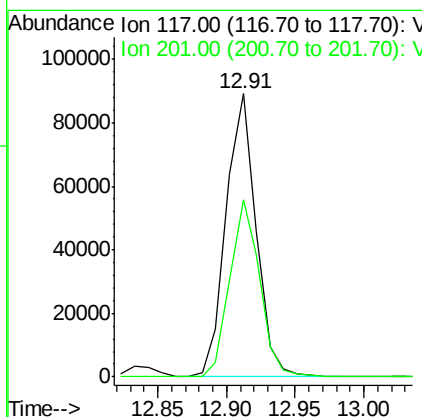
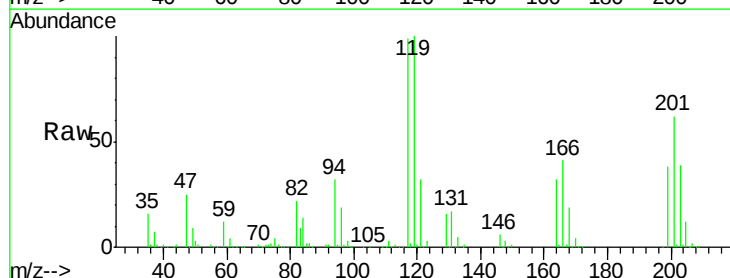
Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

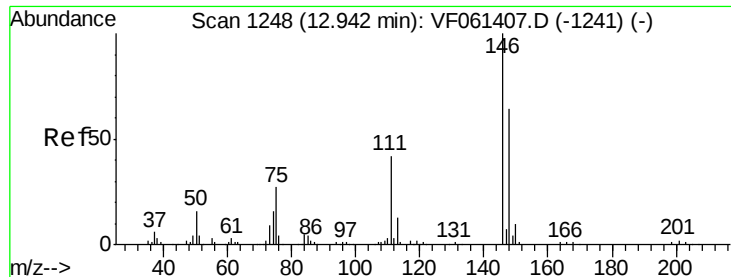
Tot Ion: 91 Resp: 583508
Ion Ratio Lower Upper
91 100
92 62.6 31.6 94.7
134 23.3 13.6 40.8



#90
Hexachloroethane
Concen: 52.533 ug/l
RT: 12.91 min Scan# 1245
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion: 117 Resp: 134910
Ion Ratio Lower Upper
117 100
201 62.4 29.3 87.8

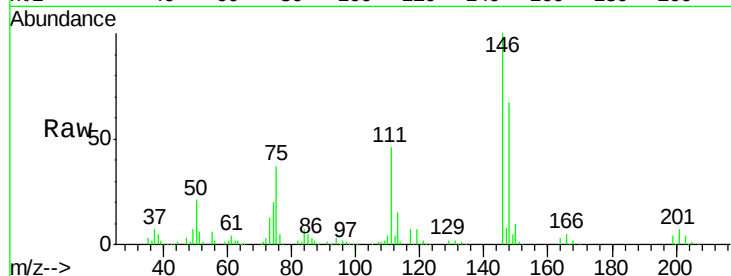




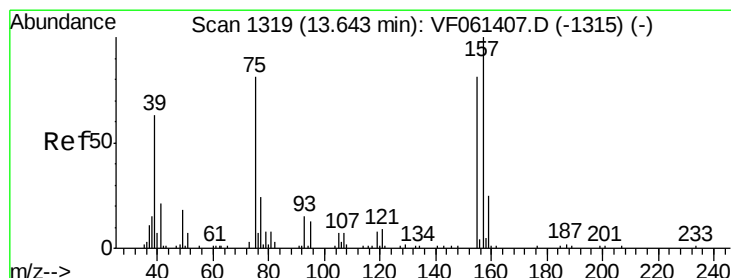
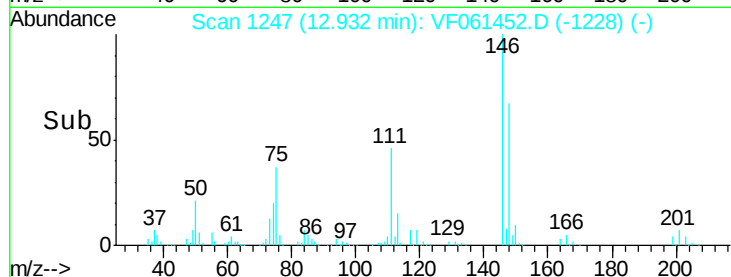
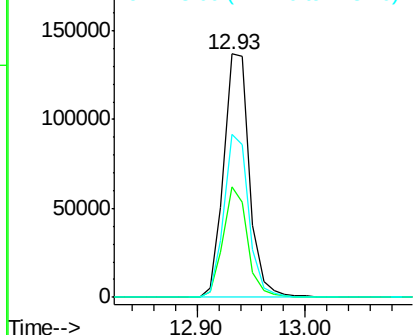
#91
 1,2-Dichlorobenzene
 Concen: 49.532 ug/l
 RT: 12.93 min Scan# 1247
 Delta R.T. -0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:146 Resp: 228952
 Ion Ratio Lower Upper
 146 100
 111 45.6 21.1 63.3
 148 67.2 31.9 95.7

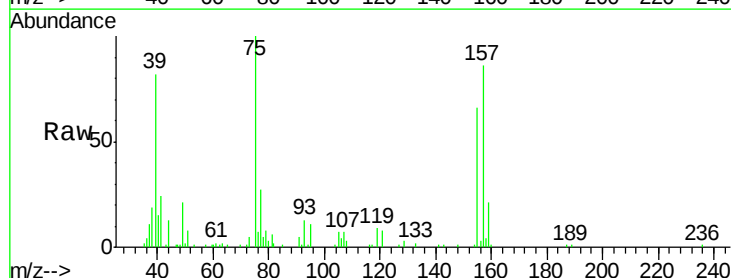


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

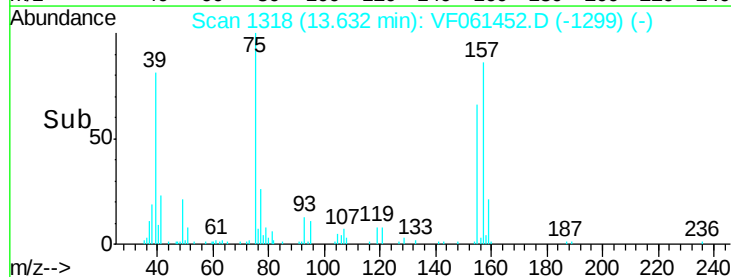
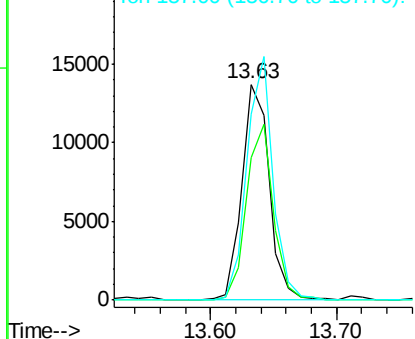


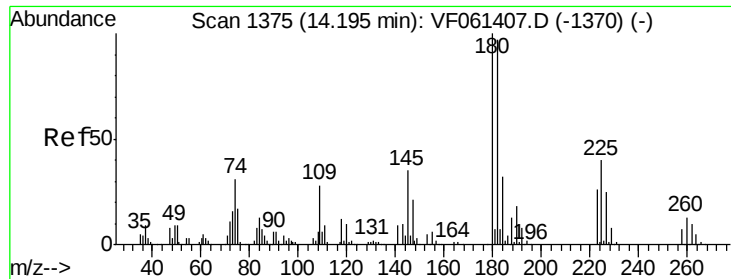
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 56.174 ug/l
 RT: 13.63 min Scan# 1318
 Delta R.T. -0.01 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion: 75 Resp: 20767
 Ion Ratio Lower Upper
 75 100
 155 66.1 49.7 149.1
 157 86.2 61.4 184.1



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

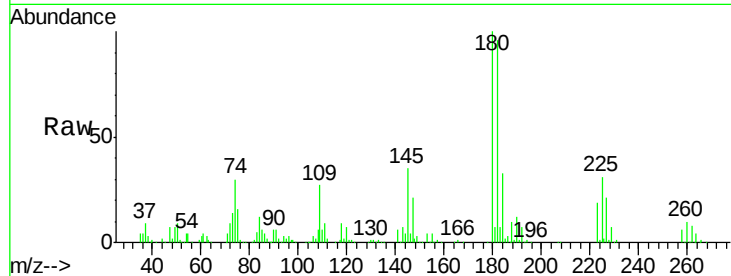




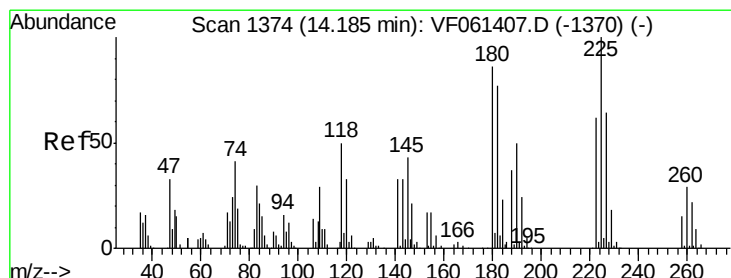
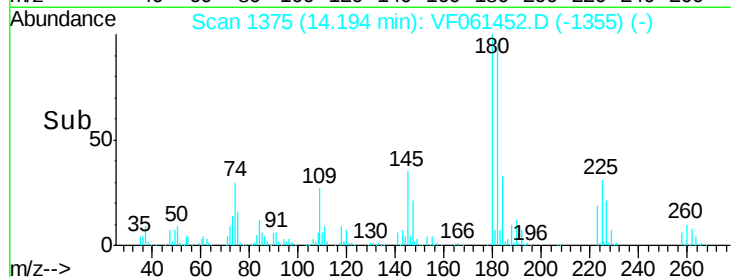
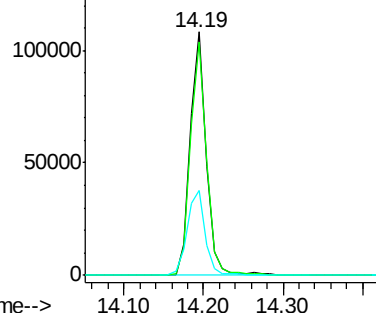
#93
 1,2,4-Trichlorobenzene
 Concen: 48.200 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Instrument :
 MSVOA_F
 ClientSampleId :
 VSTDCCC050

Tot Ion:180 Resp: 156074
 Ion Ratio Lower Upper
 180 100
 182 95.7 48.5 145.6
 145 34.7 17.5 52.6

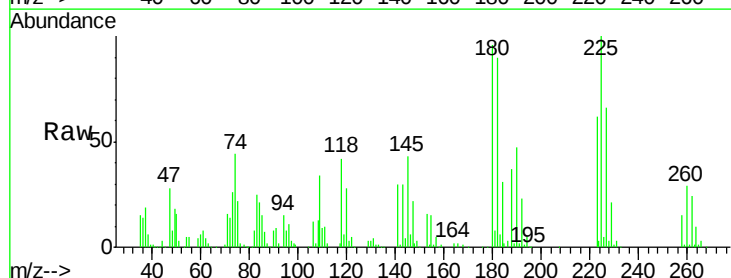


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

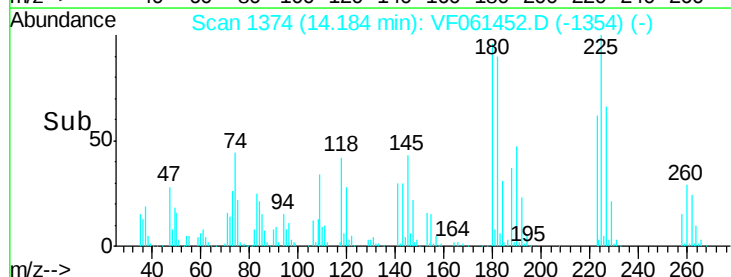
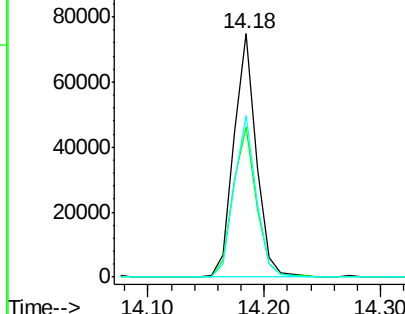


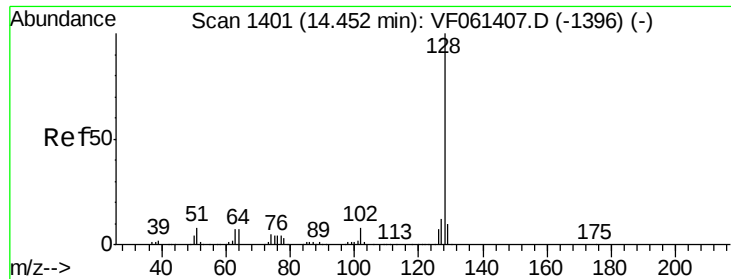
#94
 Hexachlorobutadiene
 Concen: 50.025 ug/l
 RT: 14.18 min Scan# 1374
 Delta R.T. -0.00 min
 Lab File: VF061452.D
 Acq: 18 Jan 2019 11:24

Tgt Ion:225 Resp: 100513
 Ion Ratio Lower Upper
 225 100
 223 61.8 31.1 93.2
 227 66.3 32.2 96.6



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

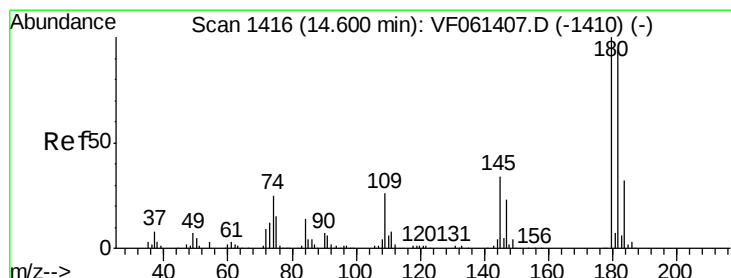
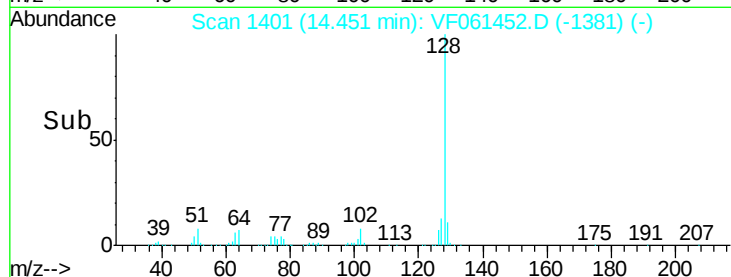
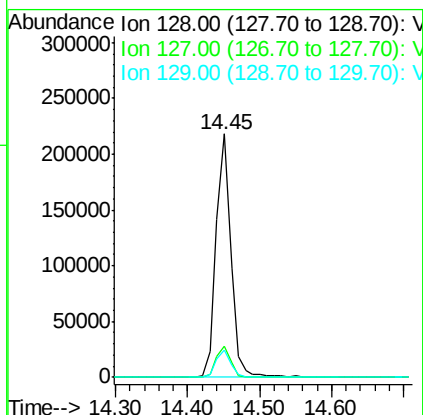
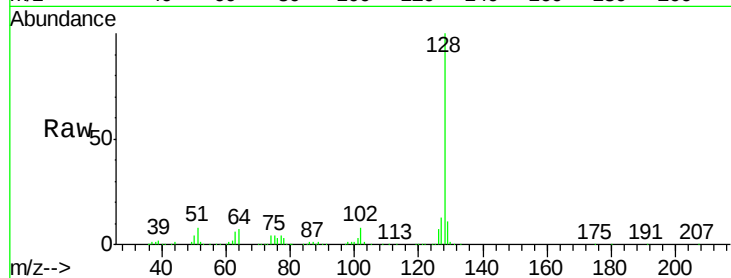




#95
Naphthalene
Concen: 50.260 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Instrument :
MSVOA_F
ClientSampleId :
VSTDCCC050

Tot Ion:128 Resp: 309197
Ion Ratio Lower Upper
128 100
127 12.5 9.5 14.3
129 11.3 8.4 12.6



#96
1,2,3-Trichlorobenzene
Concen: 48.384 ug/l
RT: 14.60 min Scan# 1416
Delta R.T. -0.00 min
Lab File: VF061452.D
Acq: 18 Jan 2019 11:24

Tgt Ion:180 Resp: 145028
Ion Ratio Lower Upper
180 100
182 93.2 47.0 141.2
145 33.1 17.1 51.2

